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(CAGE 55939)

TO HOLDERS OF GROUND EQUIPMENT MANUAL, PUB. NO. A31-3800-10,
VOLUME I - GENERAL INFORMATION AND OPERATING INSTRUCTIONS,
MAINTENANCE, REPAIR, AND ILLUSTRATED PARTS LIST
RU-850 RADIO TEST INTERFACE UNIT, PART NO. 7511400-901, -902

REVISION NO. 2 DATED 1 OCT 2005

HIGHLIGHTS

Pages that are added, revised, and deleted are identified below together with the highlights of this revision. All revised pages have a new publication date, as identified in the List of Effective Pages. Changes in text are identified by a revision bar opposite the change. Changes to the Illustrated Parts List are identified by an "R" in the margin.

Remove the out-of-date pages and put the added and revised pages into your copy of this manual. On the Record of Revisions page write the Revision Number and Revision Date.

Page	Description of Change	Effectivity
T-1, T-2	Revised to show latest revision date.	All
---	Removed the Business Reply Card (User Registration Card), Customer Response form, and Report of Possible Data Error form pages because this data is available on the Honeywell Online Technical Publications Web site.	
H-1, H-2 (DELETED)	Removed these pages because material safety information is the responsibility of the material manufacturer.	All
SBL-1, SBL-2	Added modification details for Service Bulletin 7511400-34-3 (Pub. No. A21-1991-167) and corrects data for 7511400-34-5 (Pub. No. A21-1992-020).	All
LEP-1 thru LEP-6	Revised to show where changes are made in manual.	All
INTRO-1	Revised Honeywell name.	All
INTRO-2	Revised to update the version of a reference document and the engineering drawing release date. Revised verification dates.	All
2-2 page 11	Revised to correct error on the drawing.	All
3-1 page 1, 2	Revised to update the disassembly procedures.	All
3-4 page 1 thru 9	Revised the hazardous materials WARNING. Removed the hazard rating codes shown in the materials list. Refer to the manufacturer's material safety data sheets for safety information. Removed obsolete product from the materials list.	All

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Page	Description of Change	Effectivity
3-5 page 1, 2	Revised to update the assembly procedures.	All
3-7 page 1, 53, 55, 57, 59, 92	Revised to incorporate changes for the latest revision of the test procedure.	All
Contents-4	Revised to show the updated IPL section information.	All
4-1 page 10001 thru 10260	Revised to update the IPL. The numbering of the IPL figures and items was changed to accommodate the new electronic format. Changes are identified by an "R" in the margin.	All

Honeywell International Inc.
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Ground Equipment Manual with illustrated parts list

Volume I – General Information and Operating Instructions,
Maintenance, Repair, and Illustrated Parts List

RU-850 Radio Test Interface Unit Part No. 7511400-901, -902

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RECORD OF REVISIONS

For each revision, put the revised pages in your manual and discard the superseded pages. Write the revision number and date, date put in manual, and the incorporator's initials in the applicable columns on the Record of Revisions. The initial H shows Honeywell is the incorporator.

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SERVICE BULLETIN LIST

Service Bulletin	Identified Mod	Date Included in this Manual	Description
7511400-34-1 (21-1989-29)	A	1 Dec 1992	Improves reliability of RTU outputs compatibility with signal levels needed by PRIMUS II radios.
7511400-34-1 (21-1989-29) Revision 1	A	1 Dec 1992	Corrects errors in the original issue of the Bulletin.
7511400-34-2 (21-1989-86)	B	1 Dec 1992	Improves RCB wraparound timing.
7511400-34-2 (21-1989-86) Revision 1	B	1 Dec 1992	Adds resistor A6R65 to note in paragraph 3.
7511400-34-3 (A21-1991-167)	C	1 Oct 2005	Eliminates erratic digital signal processing on the audio interface CCA.
7511400-34-4 (A21-1991-168)	---	1 Dec 1992	Converts -901 RTIU to -902.
7511400-34-5 (A21-1992-020)	D	1 Dec 1992	-902 only. Improves CD-850 testing.



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Radio Test Interface Unit / Part No. 7511400

INTRODUCTION

How to Use this Manual

The Radio Test Interface Unit (RTIU) and the SRZ-850 Series Integrated Radio System are manufactured by Honeywell International Inc., Glendale, Arizona.

The three volumes of this manual are identified below.

<u>Volume No.</u>	<u>Title</u>
I	General Information and Operating Instructions, Maintenance, Repair, and Illustrated Parts List
II	Harness Assemblies, Part No. 7511409-9XX
III	Users Guide for Detailed Testing of SRZ-850 Series Integrated Radio System

The instructions in this manual give the data necessary to do all recommended maintenance functions to put the RU-850 Radio Test Interface Unit (RTIU) in serviceable condition. Standard maintenance procedures that technicians are thought to know are not given in this manual.

Refer to the table of contents to see which subheadings are included in this manual. The table of contents identifies those subheadings that are not applicable, require no special instructions, or are scheduled for a subsequent revision.

We recommend that the tests in TESTING AND FAULT ISOLATION be done before the unit is disassembled. These tests can tell the condition of the Unit or most probable cause of any malfunction. Should any malfunction occur, repair as necessary.

To decrease the length of sentences and titles, complete part numbers are not always shown in this manual. A piece of the part number can show applicability to a specific assembly or component on illustrations as well as in text and tables. Complete part numbers are always given in the parts list subheading. Refer to the introduction in the ILLUSTRATED PARTS LIST to find how to use that subheading.

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Radio Test Interface Unit / Part No. 7511400

Related publications that are referred to in this manual are identified in the list that follows:

<u>Document</u>	<u>Publication No.</u>
Electronics Workmanship Manual	C63-3000-01
Abbreviations for Use on Drawings and in Text*	ASME Y14.38 - 1999 (Formerly ASME Y1.1 - 1989)
Standard Letter Symbols for Units of Measurement*	ANSI/IEEE Std 260 (1978)
Graphic Symbols for Electrical and Electronic Diagrams*	ANSI Y32.2 (1975)
Graphic Symbols for Logic Functions*	ANSI/IEEE Std 91 (1984)

*Available from the American National Standard Institute, New York, NY

Verification of these technical instructions is done by performance or by simulation of the necessary procedures. Checks of the manual by the engineering staff make sure the instructions and description data agree with the applicable engineering specifications and drawings and are accurate and sufficient. The level of verification for this manual is as shown:

<u>Subheading</u>	<u>Level of Verification</u>
Disassembly	By performance, 4 August 2005
Assembly	By performance, 4 August 2005

Honeywell will revise this manual as necessary to give current data. The sources for data supplied in this manual include engineering drawings and change orders released as of 27 September 2003.

Weights and measurements in this manual are in U.S. values. The letter symbols for units of measurement and the abbreviations are the same as shown in ANSI/IEEE Std 260 and ASME Y1.1, except as identified below.

<u>Abbreviation</u>	<u>Definition</u>
ADF	Automatic Deviation Finder
ARINC	Aeronautical Radio, Inc.
ASCB	Avionics Standard Communication Bus
AV	Audio Panel

<u>Abbreviation</u>	<u>Definition</u>
CDU	Control Display Unit
CM	MLS Control Display Unit
CMOS	Complementary Semi-Oxide Semiconductor
COM	Communication
CPU	Control Processor Unit
CTS	Clear To Send
DCE	Data Communication Equipment
DF	ADF Module
DI	DME Indicator
DM	DME Module
DME	Distance Measuring Equipment
DSR	Data Set Ready
DTR	Data Terminal Ready
ENC	Encoded
EPROM	Erasable Programmable Read Only Memory
HC	High Speed Controller
HCMOS	
HMN	Honeywell Material Number
HPN	Honeywell Part Number
IRS	Integrated Radio System
LSI	Large Scale Integration
ML	MLS Unit
MLS	Microwave Landing System
MUT	Mutual
MT	Strap Option CCA
NAV	Navigation
NV	VOR/ILS Module
NX	Navigation Auxiliary Control Head
OBI	Omni-bearing Indicator
OBS	Omni-bearing Sensor
RCZ	Radio Communication Unit
RCB	Radio Communication Bus
RM	Radio Management
RNZ	Radio Navigation Unit
RS	Radio System
RSB	Radio System Bus
RTIU	Radio Test Interface Unit
RTS	Request To Send
RX	Receiver
SRZ	
SUP	Suppression

<u>Abbreviation</u>	<u>Definition</u>
TCAS	Traffic Alert and Collision Avoidance System
TDR	Transducer
TR	Communication Module
TX	Transmitter
UART	Universal Synchronous Receiver Transmitter
UUT	Unit Under Test
VOL	Voltage Output Low
VOL	Voltage Output High
VLST	Very Long Scale Integration
XI	TCAS Interface
XS	Transponder Module
ZIF	Zero Insertion Force

Special Precautions



The RTIU contains static-sensitive parts. If you do not obey the necessary controls, electrostatic charges can damage the equipment. If you use the standard precautions for handling static-sensitive parts, the risk of damage will be minimum. The parts list identifies the static-sensitive parts.

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CHAPTER 1
GENERAL INFORMATION AND OPERATING INSTRUCTIONS
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*Not used in this manual.

SECTION 1 DESCRIPTION

1. Purpose of Equipment

The RTIU, Part No. 7511400-901 and -902, is part of the RTZ-850 Radio Test System. The Radio Test System consists of:

- the RTIU
- a personal computer (PC)
- associated software and interface harness assemblies.

The RTIU is used to test the Honeywell SRZ-850 Series Integrated Radio System (Radio System).

The Radio System assemblies, or units under test (UUTs), that the RTIU can test and the applicable interface harness assemblies are shown in table 1.

UUT Part No.	UUT Name	Interface Harness Assembly Part No. 7511409
7510100-81X/9XX	RNZ-850/851 NAV Unit Assembly	-901
7510114-811/901	DF-850 ADF Module Assembly	-909
7510134-811/90X	NV-850/851 VOR/ILS Assembly	-910
7510164-9XX	NAV Cluster Module	-915
7510184-90X	DM-850 DME Assembly	-911
7510600-801/901	ML-850/851 MLS Unit Assembly	-903
7510700-8XX/9XX	RCZ-850/851 COM Unit Assembly	-902
7510700-803	RCZ-851A COM Unit Assembly	-922
7510700-802/806	RCZ-851B/851E COM Unit Assembly	-924
7510764-901	TR-850 COM Module Assembly	-912
7510774-901	XS-850 Transponder Module Assembly (A2)	-913
7510784-9XX	COM Cluster Module	-914
7510850-9XX	MT-851/MT-852 Mount Strap BD (A1) CCA	-916
7510884-901	XI-851 TCAS Interface Module	-921
7511000-9XX	AV-850 Audio Panel	-904
7511000-9XX	AV-850A Audio Panel	-904
7511200-90X	TX-850 COM AUX Control Head	TBD
7511201-90X	NX-850 NAV AUX Control Assembly	-906

Table 1
SRZ-850 Series Integrated Radio System UUTs
Tested by the RTIU

UUT Part No.	UUT Name	Interface Harness Assembly Part No. 7511409
7512100-9XX	RM-850 Radio Management Unit	-905
7513000-XXX	CD-850 Clearance Delivery Control Head	-918
7513004-9XX	CM-850 MLS CDU	-919
7513006-XXX	DI-851 DME Indicator	-908
7513270-932	RM-855 Radio Management Unit	-920
7517400-901	XS-852 Diversity Mode S Transponder Module	-923

Table 1 (cont)
SRZ-850 Series Integrated Radio System UUTs
Tested by the RTIU

2. Physical Description

The RTIU (figure 1) is contained in a chassis suitable for desk-top or 19-inch rack mount. The chassis contains a power supply, five circuit card assemblies, a front panel, and a rear panel. The front panel contains two 156-pin zero insertion force (ZIF) connector CCAs, three combination power switches, a circuit breaker, indicator lights, audio-in and audio-out jacks, microphone and headphone jacks, a headphone volume control, and 260 test jacks. The ZIF connectors are used to connect a UUT through an interface harness assembly to the RTIU. The rear panel contains a fuse, connections for input power, a 25-pin connector for the RS-232 link to the PC, a reset button, and a cooling fan. Leading particulars are shown in table 2.

Dimensions:

Height (in.)	10.5
Width (in.)	19.0
Length (in.)	19.0
Weight (lbs)	36

Power Requirements:

115 ± 12 volts ac	50/60 Hz, 5 amps
or	
230 ± 24 volts ac	50/60 Hz, 5 amps
26 ± 2.0 volts ac	400 Hz, 5 amps
28 ± 0.5 volts dc	10 amps

Table 2
RTIU Leading Particulars

Radio frequency signal sources, not included as part of the RTIU, are also necessary to test the Radio System.



Figure 1

3. Functional Description

A. General

The Radio Test System consists of the RTIU, a personal computer (PC), and associated software and interface harness assemblies. The RTIU and the UUT are controlled by the PC through a serial RS-232 communications link. The interface harness assemblies connect the UUTs to the RTIU. See figure 2 for a typical Radio Test System setup. See figure 3 for the RTIU block diagram. Refer to TROUBLESHOOTING (2-2) for detailed diagrams and schematics of the RTIU.

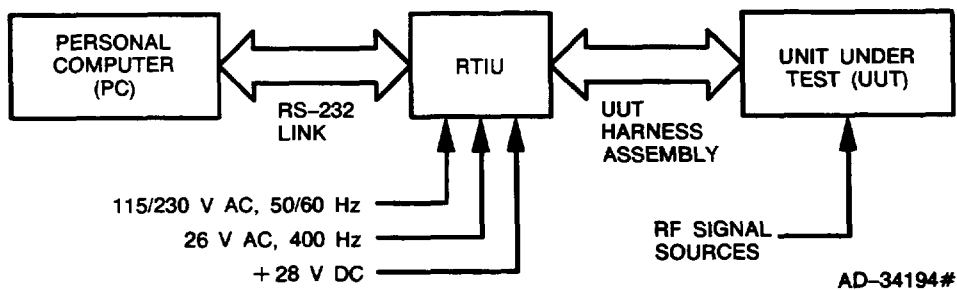


Figure 2
Typical Radio Test System Setup

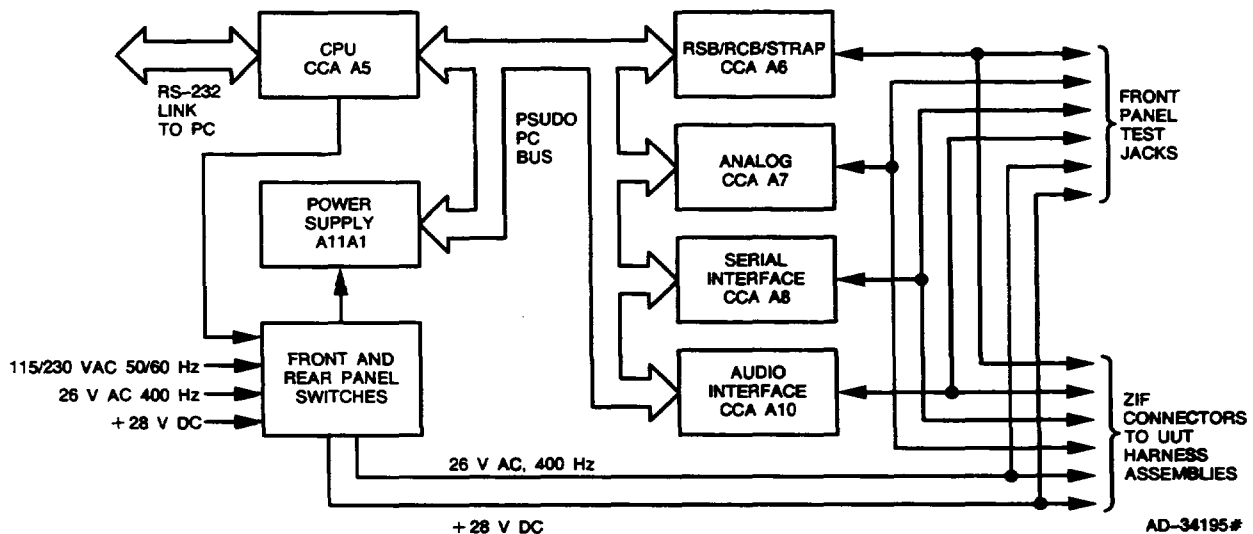


Figure 3
RTIU Block Diagram

The RTIU is controlled from the PC through a full screen user interface. The user selects from menus of the possible modes of operation, and inputs data for the UUTs. This data, along with the data returned from the UUTs, is displayed on the screen in an organized manner. All data is displayed in human readable units (i.e., volts, megahertz, channel, etc.).

The RTIU reads all data from the UUTs in real time. The RS-232 link, however, cannot transfer the large volume of data to the PC in real time. The data is buffered in the RTIU and the portions of it necessary for the test in progress, or the screen that is presently displayed, is sent to the PC at approximately the rate at which the screen can be updated. It is also possible to buffer a large amount of data for several seconds of operation and then send it to the PC at a slower rate for analysis.

Audio outputs from the radios or audio panel are routed to the headphone and the AUDIO OUT jacks, located on the RTIU front panel. A microphone can be connected to the front panel. The signals from the microphone and from the AUDIO IN jack can be routed to the UUT. The PC controls the switching of the audio functions. A volume control is provided for the headphone output on the RTIU front panel.

B. Software

The RTIU software is written in assembly language for speed of execution. There is software for each type of test that is performed by the RTIU. The tests to be performed for each UUT is scheduled and the data from selected tests is sent to the PC in accordance with the commands sent from the PC.

The PC software is written in compiled BASIC, a high level language which allows the software to be easily updated. Certain routines that need high speed calculation are coded in assembly language.

The software is written in modules, which may be separately updated and then linked together. The software provided has no provisions to control any test equipment other than the RTIU.

C. Hardware

The RTIU operates internally from several microcontrollers and contains erasable programmable read only memory (EPROM) for its internal programs.

An 8088 microprocessor controls the operation of the RTIU and communicates with the PC. A bus, internal to the RTIU, enables this processor to communicate with the other devices in the RTIU. The analog and digital inputs and outputs on the other CCAs in the RTIU are read and written directly by the 8088 microprocessors through shift registers, latched buffers, A/D circuitry, and D/A circuitry. The only exceptions to this are the RSB and RCB serial data streams, and several other serial data streams, which carry too much data for the 8088 to read directly.

An 8344 microcontroller handles the RSB and/or RCB bus activity that occurs between the RTIU and UUT. RAM memory is shared in the RTIU between this processor and the 8088 to transfer the large volume of data that passes to and from the UUT through these buses.

An 80C154 microprocessor acts as a UART and handles the other serial data streams. The 80C154 communicates in whatever mode is necessary for the particular UUT. This processor communicates with the 8088 through two mailbox memory locations.

There are presently five CCAs in the RTIU. The CCAs contain the I/O circuitry and control functions for the RTIU. They are:

- CPU CCA A5
- RSB/RCB Strap CCA A6
- Analog CCA A7
- Serial Interface CCA A8
- Audio Interface CCA A10.

D. CPU CCA A5

The CPU CCA A5 contains the 8088 microprocessor and its associated circuitry, several digital inputs and outputs for use in self-test and UUT test, RAM and EPROM system memory, and RS-232 interface to the PC. The CPU CCA acts as the bus controller for the PC style bus inside the RTIU that is used to communicate between the RTIU and other CCAs. The digital inputs and outputs on the CPU CCA are as follows:

- (1) HC IN 9 through
HC IN 15

These are high speed CMOS inputs for 0 - 5 V dc signals. Low is any signal less than 1.5 V dc, and high is any signal greater than 3.5 V dc. The signals are protected by a 10k ohm series resistor and a 100k ohm pullup resistor.

- (2) PS SYNC IN

This input detects the power supply sync signals that are generated by ADF and TDR. The sync signals are positive going pulses with a nominal width of 150 or 500 nanoseconds, and a nominal height of 5 volts. They are referenced to ground. This input is designed like the inputs in the various radio modules. The repetition rate of the pulses is either 85.3333 kHz, 88.8888 kHz, 96.9697 kHz, or 125 kHz. The time it takes for a number of pulses to be received is read by a timer which may be read by the RTIU CPU. The timer allows a finer distinction of the average time between two pulses than is possible if only one pulse time was counted.

3. D. (3) HC OUT 9 through
HC OUT 15

These are high speed CMOS outputs, which produce either 0 or 5 V dc. They are standard HC outputs that can source and sink 4 ma at $V_{oh} = 3.98$ V and $V_{ol} = 0.26$ V. They are protected by 470-ohm series resistors.

(4) MUT SUP

This line is connected to the RTIU for use as a test point on the front panel. There is no circuitry in the RTIU to test or simulate this signal.

(5) PS SYNC OUT

These are simulated ADF and TDR PS sync output pulses. The circuit used is similar to that in the DME. This output is also controlled by the timer. The time between pulses may be varied in increments of 125 nanoseconds, therefore, the exact time between pulses is only simulated for the 88.8888 and 125 kHz repetition rates.

E. RSB/RCB Strap CCA A6

The RSB/RCB Strap CCA A6 contains three RSB transceivers, any two of which may be used at one time. The CCA also contains both balanced and unbalanced RCB transmitters and receivers, and several discrete digital inputs and outputs. The digital inputs and outputs on this CCA are as follows:

(1) Side Select

These are standard HCMOS outputs to generate the side select signals used by the UUTs on the RSB bus. They are protected by 220-ohm series resistors.

(2) Strap (+5 V, Ground)

These are HCMOS inputs with 4.7k pulldown and pullup resistors to sense the presence of available voltage and current capability for the strap boards in the UUT mounts. They may also be used to check the drive capability of any similar source of +5 V and ground. They are protected by series resistors into the HCMOS inputs.

(3) STRAP DATA (Output)
STRAP CLOCK (Input)
STRAP LOAD (Input)

These pins provide a simulation of the strap option card signals to the UUTs. Any strap configuration may be selected under software control of the RTIU. The CLOCK and LOAD signals come from the UUT, and the DATA returned is stored in latches on this CCA and repeatedly output. The circuit is similar to that used on the strap cards on the mount.

3. E. (4) SW1/28 V Test 1 through
SW24/28 V Test 24

These are a combination of open collector pulldown outputs and inputs to detect +28 V or ground. The circuit consists of an open collector transistor output and a diode isolated +28 V pullup load of 33k ohms. A resistive divider then divides the voltage sensed to a CMOS level and it is read by a HCMOS device. All 24 of the inputs are identical. The nominal switch point is approximately 7.5 volts. The open collector transistors can drive approximately 100 mA per group of eight, after which the RTIU will shut down all 24 transistors, and warn that a fault has occurred.

(5) HC IN 1 through
HC IN 8

These are high speed CMOS inputs for 0 - 5 V dc signals. Low is any signal less than 1.5 V dc, and high is any signal greater than 3.5 V dc. The signals are protected by a 10k-ohm series resistor and a 100k-ohm pulldown resistor to ground.

(6) HC OUT 1 through
HC OUT 8

These are high speed CMOS outputs, which produce either 0 or 5 V dc. They are standard HC outputs that can source and sink 4 mA at $V_{oh} = 3.98$ V and $V_{ol} = 0.26$ V. They are protected by a 270-ohm series resistors.

(7) RCB REMOTE TX (Hi, Lo)

This is a differential line driver to output RCB data from a UART under control of the 8344 microprocessor located on this CCA. It is designed to talk to remote units. It meets the RCB specifications for the remote connections.

(8) RCB REMOTE RX (Hi, Lo)

This is a differential line receiver to input RCB data to a UART under control of the 8344 microprocessor located on this CCA. It is designed to listen to remote units. It meets the RCB specifications for the remote connections.

(9) RCB LOCAL TX

This is a single-ended transmitter to output RCB data from a UART under control of the 8344 microprocessor located on this CCA. It is designed to transmit to modules that would be connected directly to a cluster board in a unit. It meets the RCB specifications for the remote connections.

3. E. (10) RCB LOCAL RX

This is a single ended receiver to input RCB data to a UART under control of the 8344 microprocessor located on this CCA. It is designed to receive from modules that would be connected directly to a cluster board in a unit. It meets the RCB specifications for the remote connections.

(11) RCB GND

This is a ground reference for all RCB signals.

(12) RSB BUS A (Hi, Lo, Gnd) RSB BUS B (Hi, Lo, Gnd) RSB BUS C (Hi, Lo, Gnd)

These are three bi-directional differential RSB buses, any two of which may be used at one time. They go through an ASCB VLSI under control of the 8344 microprocessor located on this CCA. The ground connection is a shield for each individual bus.

F. Analog CCA A7

The analog CCA A7 contains the circuitry to receive two synchro signals from the VOR and ADF. A reactive load similar to one satisfied synchro is provided, but the dynamics of a synchro are not simulated. The CCA also includes an electronic OMNI bearing selector (OBS) which simulates a 5-wire OBS. A synchro transmitter generates a compass heading signal for use by the VOR and ADF. A composite test signal for the ADF is generated, and a multichannel analog-to-digital converter measures various voltages from the UUT. The inputs and outputs on this CCA are as follows:

(1) SYNCHRO 1 X SYNCHRO 1 Y SYNCHRO 1 Z

These three pins make up a simulated synchro load for the VOR and provide a load of $11 + j37.7$ ohms from X to Z, and Y to Z. The ac voltage across these loads is read by an analog-to-digital converter. The average of the synchronously rectified voltage is converted with an accuracy of 0.3 percent with an offset of plus or minus 10 millivolts. This represents an error of 0.25 degree at the worst case angle (45 degrees), and an error of less than 0.05 degree at multiples of 90 degrees.

(2) SYNCHRO 2 X SYNCHRO 2 Y SYNCHRO 2 Z

These three pins make up a simulated synchro load for the ADF and provide a load of $7 + j37.7$ ohms from X to Z, and Y to Z. The A/D conversion and accuracy are the same as for SYNCHRO 1.

3. F. (3) OBI/OBS SIN
OBI/OBS COS
OBI/OBS RTN

These pins provide a simulated OBI/OBS load for the VOR. A load of $784 + j830$ ohms is provided from SIN to RTN and from COS to RTN. The A/D conversion and accuracy are the same as for SYNCHRO 1. The RTIU performs some calculation on the readings and produces a simulation of an OBS instrument. The individual readings are also available.

- (4) 26 V 400 HZ HI

This is an input for a comparator to sense the 400 Hz reference and provide a signal to drive the synchronous detectors. The zero-crossing detection on accuracy is better than 0.01 degree. This pin is compared to the 26 V 400 HZ RTN line from the 400 Hz power supply. Any dc voltage offset will cause a zero-crossing error in addition to the basic error built in to the circuit.

- (5) COS MODULATION
SIN MODULATION
COMPOSITE BEARING

These are inputs for the cosine and sine signals from the ADF and the composite bearing output that is a result of the inputs. The calculations are as follows:

$$\begin{aligned}\text{Composite Bearing} &= 1.25 * .5 * \sin(\text{Theta}) * \text{Abs}(\text{SIN MODULATION}) \\ &= 1.25 * .5 * \cos(\text{Theta}) * \text{Abs}(\text{COS MODULATION}) \\ &= 2.5 \text{ V}\end{aligned}$$

The gain of 1.25 is from the hardware. The gain of 0.5 is necessary to reduce the signal level and is implemented in the software, therefore, only 11 bits are available for these outputs from the 12-bit DAC. This gives a maximum error of less than 0.08 degree. Additional errors arise from the analog circuitry. These consist of offsets and gain errors. The offsets are eliminated by the capacitive coupling of the ADF input, but the gain errors contribute additional errors to the simulated bearing angle. These gain errors contribute 0.17 degree at 45 degrees, for a maximum total error of 0.25 degree at 45 degrees. The error at multiples of 90 degrees is small compared to the errors caused by the bit size. The maximum total error near multiples of 90 degrees is less than 0.07 degree.

3. F. (6) SYNCHRO COMPASS X
SYNCHRO COMPASS Y
OBS A
OBS B

These are analog outputs, which provide either a dc or ac output. The dc output level may be anywhere from approximately -14 to +14 V. The ac output may be a square wave synchronized with the 400 Hz reference, either in or out of phase. It may be up to approximately 28 V peak-to-peak. The effective resolution is 13 bits, made up of 12 bits of amplitude and one sign bit. The output current capability is approximately 10 milliamps. These are normally used to output simulated compass and OBS signals, but are not limited to this function.

- (7) SYNCHRO REF

This is the reference for the analog outputs. It is connected to the RTIUs analog ground.

- (8) 0-30 V ANALOG 1 through
0-30 V ANALOG 10

These are inputs for dc voltage levels between 0 and 30 volts. Loads provided are varied. For 0 - 30 V ANALOG 1, 2, 3, 7, and 8, the load is a 1.2k ohm, 3-watt wirewound resistor to ground. For 0 - 30 V ANALOG 0 and 10, the load is a 1.2k ohm, 3-watt wire resistor to 28 volts. For 0 - 30 V ANALOG 4, 5, and 6, the load is a 33 ohm, 3-watt wirewound resistor to ground. These last loads are designed to be loads for the marker receiver, and may only be driven to about 10 V before they are over-dissipated. The RTIU will look at the voltage level at these points and shut down the unit under test if the resistors are over-dissipated for more than a few milliseconds.

The errors on these inputs are $0.3\% \pm 10.4$ millivolts. The resolution is 12 bits. The voltages are measured with respect to the RTIUs 28 V ground.

- (9) ± 7.5 V ANALOG 1
 ± 7.5 V ANALOG 2
 ± 7.5 V REF 1,2

These are two differential inputs with a common reference. The input impedance is 300k ohms. The gain accuracy is within 0.15% and the offset error is within ± 5.2 millivolts. Common mode rejection is 56.5 dB minimum, which results in an additional error of 11.2 millivolts for a 7.5-volt common mode signal.

3. F. (10) ± 15 V ANALOG 1
 ± 15 V ANALOG 2
 ± 15 V REF 1, 2
 ± 15 V ANALOG 3
 ± 15 V ANALOG 4
 ± 15 V REF 3, 4

These are two pairs of two differential inputs with common references. The input impedances are 300k ohms. The gain accuracy is within 0.3%, and the offset error is within ± 10.4 millivolts. Common mode rejection is 49.3 dB minimum, which results in an additional error of 51 millivolts for a 15-volt common mode signal.

G. Serial Interface CCA A8

The serial interface CCA A8 provides circuitry to test the various forms of serial data used by the radio system. The CCA does not provide RSB and RCB circuitry. This CCA contains an ARINC 429 receiver, an ARINC 568 receiver, six RS-422 receivers, encoded altitude outputs, and auxiliary control head data inputs and outputs. It also contains output circuitry for ARINC 429, ARINC 568 self-test signals, and six channels of RS-422. The digital inputs and outputs on this CCA are as follows:

- (1) ARINC 568 DATA (Hi, Lo)
ARINC 568 CLOCK (Hi, Lo)
ARINC 568 SYNC (Hi, Lo)

These are inputs for a circuit that receives the DME distance from ARINC 568 data. Dedicated hardware is used.

- (2) ARINC 429 12.5 KHZ (Hi, Lo)

This is a differential input for ARINC 429 data. A custom LSI is used to receive the data, and data may be received from any source of 12.5 kHz ARINC 429.

- (3) ACH DATA (Hi, Lo) (Output)
ACH CLOCK (Hi, Lo) (Input)
ACH LOAD (Hi, Lo) (Input)

These are connected to a circuit that provides a simulation of an auxiliary control head for either the NAV or COM. For the COM, only the data outputs are used and the circuit is free running. For the NAV, the clock and load are read and data is output synchronously. The 80C154 microprocessor is used for this function.

3. G. (4) ACH DATA (Hi, Lo) (Input)
ACH CLOCK (Hi, Lo) (Output)
ACH LOAD (Hi, Lo) (Output)

These are connected to a circuit that receives auxiliary control head data. The asynchronous data stream for the COM is decoded. Clock and load signals are provided for the NAV control head to return the data stream. The 80C154 microprocessor is used for this function.

- (5) RS-422 OUT 1 (Hi, Lo)
RS-422 OUT 2 (Hi, Lo)
RS-422 OUT 3 (Hi, Lo)
RS-422 OUT 4 (Hi, Lo)
RS-422 OUT 5 (Hi, Lo)
RS-422 OUT 6 (Hi, Lo)

These are RS-422 outputs controlled by the 80C154 microprocessor serial output. One differential RS-422 signal consists of a Hi and Lo pair. Only one pair may be active at a time. Baud rates available are:

- 400 kilobaud
- 200 kilobaud
- $66.6667/n$ kilobaud, where n varies from 1 to 256
- $33.3333/n$ kilobaud, where n varies from 1 to 256
- $400/n$ kilobaud, where n varies from 1 to 65536

- (6) RS-422 IN 1 (Hi, Lo)
RS-422 IN 2 (Hi, Lo)
RS-422 IN 3 (Hi, Lo)
RS-422 IN 4 (Hi, Lo)
RS-422 IN 5 (Hi, Lo)
RS-422 IN 6 (Hi, Lo)

These are RS-422 inputs controlled by the 80C154 microprocessor serial input. One differential RS-422 signal consists of a Hi and Lo pair. Only one pair may be active at a time. The same baud rates are available as for the RS-422 outputs.

3. G. (7) ENC ALT D2N
ENC ALT C2N
ENC ALT D4N
ENC ALT C1N
ENC ALT A4N
ENC ALT C4N
ENC ALT A1N
ENC ALT B2N
ENC ALT A2N
ENC ALT B1N
ENC ALT B4N
ENC ALT COMMON

These are open collector pulldown outputs to simulate the encoding altimeter altitude data to the transponder. The common pin is a reference. The outputs conform to the standard encoding altimeter output specifications and signal levels.

- (8) ARINC 568 TEST DATA
ARINC 568 TEST CLOCK
ARINC 568 TEST SYNC
ARINC 568 TEST COMMON

These are outputs for ARINC 568 DME distance data used to self-test the DME distance inputs. The signal levels are only from 0 to 5 volts, and do not conform to the ARINC 568 specifications. They are usable for self-test only. These signals are generated by the 80C154.

- (9) ARINC 429 SELF-TEST (Hi, Lo)

These are standard ARINC 429 outputs, generated by a custom LSI.

H. Audio Interface CCA A10

The audio interface CCA A10 receives and transmits digital audio data, receives analog audio, and generates analog audio.

SECTION 2 OPERATION

1. Peripheral Equipment and Software

A. Personal Computer

An IBM compatible personal computer (PC) is necessary to operate the RTIU. The basic PC requirements and recommendations by Honeywell are:

- IBM compatible PC (8088, 8086, 80286, or 80386 based)
- Processor speed of 10 MHz or higher for 8088, 8086; 8 MHz or higher for 80286, 80386
- RAM of 640k with 512k or greater available
- PC-DOS or MS-DOS 2.1 or higher (DOS)
- MDA, EGA, or VGA video adapter with mono or color monitor
- RS-232 serial communications port configured as COM 1 (second RS-232 port configured as COM 2 recommended)
- Dual floppy disk drive or one floppy disk and one hard disk (hard disk highly recommended)
- Math co-processor
- Printer (optional)

B. Software

- The PC must have the PC manufacturer's DOS.
- The RTIU must have the applicable test specification and test program software that is necessary to test each UUT.

C. Test Equipment

Other special test equipment necessary to test a UUT (oscillators, signal generators, etc.) is listed in the TEST EQUIPMENT section in the applicable UUT test specification.

2. Function of RTIU Controls, Switches and Indicators

• Front Panel

NOTE: The front panel switches are switch, circuit breaker, and indicator combinations.

MAIN POWER (CB1) - Applies 115 V or 230 V, 50/60 Hz through a 5 amp current breaker to RTIU
 28 V DC (CB2) - Applies +28 V dc through a 10 amp current breaker to UUT
 26 V 400 HZ (CB3) - Applies 26 V, 400 Hz through a 5 amp current breaker to UUT
 PHONE VOL - Adjusts volume of signal at PHONE jack

• Rear Panel

115/230(S1) - Selects 115 V or 230 V operation
 RESET (S2) - Resets CPU and other processors in RTIU
 FUSE (F1) - 7.5 ampere, 250 V fuse in 115/230 V line

3. General Setup Procedure and Operating Instructions

A. General Setup Procedure

- (1) Refer to SERVICING (2-1) and do all applicable 30-day and 12-month servicing except self-test.
- (2) Connect a shielded RS-232 serial interface cable between the PC and connector J1 on the RTIU rear panel.
- (3) Set 115/230 switch on the RTIU rear panel to the correct position for the power source available (Up: for 115 V ac; down: for 230 V ac). Do this before you connect the line cord.
- (4) Set all RTIU front panel circuit breakers - OFF:
 - MAIN POWER - OFF
 - 28 V DC - OFF
 - 26 V 400 HZ - OFF
- (5) Select the appropriate line cord. The United States version is shipped with the RTIU. Optional line cords are:

Honeywell Part No.	Manufacturer Part No.	Application
7500344-4	Belden 17950	Europe
7500344-6	Belden 17990	Australia/New Zealand

Other industrial line cords that terminate in a CEE 22 STANDARD V plug will mate with J2 on the RTIU.

3. A. (6) Connect the RTIU line cord to RTIU rear panel connector J2 and to 115/230 V ac 50/60 Hz source.
- (7) Connect the loose wires of the external power supply cable, Part No. 7511474-906, to the 28 V dc and 26 V ac, 400 Hz, power supplies as follows:
 - Wht/Red - 28 V dc
 - Blk - 28 V dc return (ground at power source)
 - Wht/Orn - 26 V ac, 400 Hz
 - Gry - 26 V ac return (ground at power source)
- (8) Connect P2 of the external power supply cable, Part No. 7511474-906, to RTIU rear panel connector J17.

B. Operating Instructions

- (1) Set the front panel circuit breaker MAIN POWER - ON.

NOTE: For best performance, because the DOS program is disk intensive, a large number of buffers or a disk cache is necessary. Refer to your DOS manual for information to set these up.

- (2) Boot DOS on the PC.
- (3) Determine the type of disk drive available. If the PC has a hard disk, do step 3.B.(3)(a). If the PC does not have a hard disk, do step 3.B.(3)(b).

NOTE: Each RTIU program comes on several diskettes. The RTIU program is easier to use if it is installed on a hard disk. If a hard disk is not available, the RTIU program can be run from a floppy-disk-only system. The RTIU program looks for its files in the current disk and directory.

- (a) Do the RTIU program with a hard disk drive as follows:

- 1 Create a directory on the hard disk.
- 2 Copy all the files on all of the applicable program diskettes into this directory.
- 3 Change directory to the directory created.
- 4 Type, RTIU, then press "Return" key and wait for RTIU MAIN MENU to appear.

3. B. (3) (b) Do the RTIU program with a floppy disk drive as follows:
- 1 Make work copies of the applicable program diskettes.
 - 2 Select the disk drive on which the program will be run.
 - 3 Put the working copy of DISKETTE 1 of the program into the selected drive.
 - 4 Type, RTIU, then press Return key and wait for the RTIU MAIN MENU to appear.
 - 5 When the program needs files that are not on the diskette in use, a prompt to insert another diskette will appear. Replace the diskette that is in the drive with a diskette that has the necessary files.

- NOTES:
1. A flashing asterisk at the lower right corner of the screen means the RTIU is communicating with the PC.
 2. If the PC does not respond to the RTIU when the general setup procedure and the operating instructions are initially done, refer to the RS-232 interface information in paragraph 5 of this section.

- (4) Do the self-test procedure in accordance with SERVICING (2-1).
- (5) Do the TEST SETUP and TEST PROCEDURE instructions specified in the applicable UUT program test specification.

4. RTIU Users Guide for Detailed Testing

Refer to OPERATION, Appendix A (1-2, Volume III), for information about detailed testing with the RTIU Users Guide. The Users Guide has:

- flow charts and screen displays of the menus
- screen pages within each of the radio system test programs
- instructions to enter and interpret data
- definitions of abbreviations and commands used on the screen displays.

5. RS-232 Interface

A. RTIU and PC Types

The RTIU is a data communication equipment (DCE) device. The pin-out in the rear panel-mounted RS-232 connector J1 is as follows:

<u>Pin No.</u>	<u>Description</u>
1	Earth ground
2	Receive data (data coming from PC)
3	Transmit data (data going to PC)
7	Signal ground

The PC is a data terminal equipment (DTE) device. The PC manufacturer may put receive data on pin 2 of its RS-232 connector and transmit data on pin 3, or, transmit data on pin 2 and receive data on pin 3.

B. RS-232 Cable Wiring

If the PC does not respond to the RTIU when the general setup procedures and operating instructions are initially done, proceed as follows:

- (1) Set front panel circuit breaker MAIN POWER - OFF
- (2) Disconnect the RS-232 cable at the PC connector
- (3) Transpose the wires at pins 2 and 3 in the PC connector end of the RS-232 cable
- (4) Tag the RS-232 cable to show that the cable is wired pin-to-pin, or pin 2 to pin 3, and pin 3 to pin 2
- (5) Repeat the general setup procedure and operating instructions.

C. Other RTIU RS-232 Options

The RTIU RS-232 connector P1 pins that follow are also available, if your PC is equipped for them:

<u>Pin No.</u>	<u>Description</u>
4	CTS (Clear to send). Connect to the PC RTS.
5	RTS (Request to send). Connect to the PC CTS.
6	DTR (Data set ready). Connect to the PC DSR.
20	DSR (Data terminal ready). Connect to the PC DTR.

SECTION 4 SHIPPING AND STORAGE

1. Task

When equipment is sent to Honeywell for warranty repair, the approved container, or equivalent, must be used. Warranty repair or replacement will not be covered if it is determined that damage is caused by improper handling, packaging, or shipping procedures. When the equipment is stored, environmental conditions must be considered.

2. Shipping

- Disconnect all external cables from the RTIU.
- Prepare a packing list of all individually packed assemblies and cables.



- If electrostatic sensitive CCAs will be shipped individually, put the CCAs in shielding bags and label the bags with electrostatic sensitive cautions before final packaging.
- Put the assemblies in original shipping containers or equivalent packaging, and secure with 3/8-inch plastic or steel strapping.
- Attach a FRAGILE label to each container.

3. Storage

If the RTIU must be stored for long periods of time, use an environmentally controlled facility. Under all storage conditions, however, the storage environment must not exceed temperature ranges of -22 to +122 °F (-30 to +50 °C) with a maximum non-condensing humidity of 95 percent. It is essential that you protect the RTIU from dust, moisture, and other contamination.

CHAPTER 2
MAINTENANCE
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SECTION 1 SERVICING

1. 30-day Intervals

Clean the cooling fan screen, located on the rear panel of the RTIU, every 30-days, or sooner if necessary.

2. 12-Month Intervals, and After Shipping or Storage

Do the procedure that follows every 12-months, and when the RTIU is returned to service after it has been shipped or stored. Refer to ILLUSTRATED PARTS LIST (4-1, figure 1) for components locations.

- Remove the top cover
- Clean and visually check the RTIU
- Make sure that CCAs A5, A6, A7, A8, and A10 are seated in their motherboard connectors.

<u>CCA</u>	<u>IPL Item No.</u>	<u>Harness Connectors</u>
A5	15 or 25	P18, P1, P6
A6	16 or 26	P19
A7	17	P20
A8	18 or 28	None
A10	20	P3

- Make sure the harness connectors that attach to the CCAs are connected and seated. The connectors are located on side B of the CCAs.
- Do the self-test/calibration procedure in TESTING/CALIBRATION (3-7).

SECTION 2
TROUBLESHOOTING

1. Self-Test

Do the self-test procedure in TESTING/CALIBRATION (3-7), when you suspect the RTIU is faulty.

Refer to table 1 during self-test, when error messages are shown on the PC screen, or when the CPU CCA A5 LEDs light. Table 1 gives check points and areas of possible failures in the RTIU.

Refer to OPERATION, Appendix A (1-2, Volume III, Subsection 17), for information about detailed testing with the RTIU Users Guide.

2. Diagrams and Schematics

See figures 1 through 15 for interconnect diagrams, CCA block diagrams, and schematics to help troubleshoot the RTIU. Refer to table 2 to cross-reference the following:

- Front panel ZIF connectors
- Front panel test jacks CCA
- Chassis motherboard connectors.

3. UUT Interface Harness Assemblies

Refer to TROUBLESHOOTING, Appendix A (2-2, Volume II) for information about the UUT interface harness assemblies, Part No. 7511409-9XX, that connect the Radio System UUTs to the RTIU.

ERROR MESSAGE -----	CHECK POINTS -----
<u>ANALOG CCA A7</u>	
ANALOG CARD IS BAD	-----> ADC U20 (AD7582)
<u>AUDIO INTERFACE CCA A10</u>	
ANALOG CARD IS BAD	-----> Programmed Audio DSP A10A1U12 (7720)
<u>CPU CCA A5</u>	
CPU CARD IS BAD	-----> If red LEDs are lit: Microprocessor U105 (80C88) If red LEDs not lit: PC cable, CPU card internal cable, RS-232 drivers bad or misconnected
POWER SUPPLY SYNC IN ON CPU CARD IS BAD	-----> P2J5 side SEL PAR, P2V4 PS SYNC IN
HC LATCH 9 ON CPU CARD IS BAD	-----> P2K1 STRAP CLOCK, P2V4 PS SYNC IN
HC LATCH 10 ON CPU CARD IS BAD	-----> P2J1 STRAP LOAD, P2N1 HC OUT 10, P2P4 HC IN 10
HC LATCH 11 ON CPU CARD IS BAD	-----> P2N4 HC IN 11, P2P1 HC OUT 11
HC LATCH 12 ON CPU CARD IS BAD	-----> P2M4 HC IN 12, P2R1 HC OUT 12
HC LATCH 13 ON CPU CARD IS BAD	-----> P2S4 HC IN 13, P2V1 HC OUT 13
HC LATCH 14 ON CPU CARD IS BAD	-----> P2T4 HC IN 14, P2U1 HC OUT 14

RTIU Self-Test Error Messages and CPU CCA A5 LEDs
Table 1

ERROR MESSAGE -----	CHECK POINTS -----
<u>RSB/RCB/STRAPS CCA AA6</u>	
RSB/RCB CARD IS BAD	-----> SWAPRAM Flip-Flop is bad Microprocessor 734 (8344)
HC LATCH 1 ON RSB/RCB CARD IS BAD	-----> P2A2 HC IN 1, P2K2 HC OUT 1
HC LATCH 2 ON RSB/RCB CARD IS BAD	-----> P2K3 HC IN 2, P2J2 HC OUT 2
HC LATCH 3 ON RSB/RCB CARD IS BAD	-----> P2J3 HC IN 3, P2H2 HC OUT 3
HC LATCH 4 ON RSB/RCB CARD IS BAD	-----> P2H3 HC IN 4, P2G2 HC OUT 4
HC LATCH 5 ON RSB/RCB CARD IS BAD	-----> P2G3 HC IN 5, P2H5 HC OUT 5
HC LATCH 6 ON RSB/RCB CARD IS BAD	-----> P2F3 HC IN 6, P2G5 HC OUT 6
HC LATCH 7 ON RSB/RCB CARD IS BAD	-----> P2E3 HC IN 7, P2F5 HC OUT 7
HC LATCH 8 ON RSB/RCB CARD IS BAD	-----> P2D3 HC IN 8, P2E5 HC OUT 8
RCB UART ON RSB/RCB CARD IS BAD	-----> P2A1 RCB REMOTE TX LO, P2D1 RCB REMOTE RX LO, P2B1 RCB REMOTE TX HI, P2C1 RCB REMOTE RX HI, P2E1 RCB LOCAL TX, P2F1 RCB LOCAL RX
SIDE SELECT LATCH A0 ON RSB/RCB CARD IS BAD	-----> P2A4 SIDE SEL A0, P2K4 STRAP +5V
SIDE SELECT LATCH A1 ON RSB/RCB CARD IS BAD	-----> P2K5 SIDE SEL A1, P2L6 STRAP GND

RTIU Self-Test Error Messages and CPU CCA A5 LEDs
Table 1 (cont)

ERROR MESSAGE

CHECK POINTS

RSB/RCB/STRAPS CCA AA6 (cont)

*STRAP LATCH 1
ON RSB/RCB CARD IS BAD

-----> P2H1 STRAP DATA
P2J1 STRAP LOAD
P2K1 STRAP CLK
P2R4 HC IN 9
P2M1 HC OUT 9
P2P4 HC IN 10
P2N1 HC OUT 10
P2U4 HC IN 15

*NOTE: This error message may also appear for
STRAP LATCH 2 through STRAP LATCH 49.

SW LATCH 1
ON RSB/RCB CARD IS BAD

-----> P1U1 ENC ALT B4N,
P2B2 SW13/28V TEST 13,
P2G6 SW1/28V TEST 1

SW LATCH 2
ON RSB/RCB CARD IS BAD

-----> P1T1 ENC ALT B1N,
P2D2 SW14/28V TEST 14,
P2F6 SW2/28V TEST 2

SW LATCH 3
ON RSB/RCB CARD IS BAD

-----> P1S1 ENC ALT A2N,
P2C5 SW15/28V TEST 15,
P2E6 SW3/28V TEST 3

SW LATCH 4
ON RSB/RCB CARD IS BAD

-----> P1R1 ENC ALT B2N,
P2B5 SW16/28V TEST 16,
P2D6 SW4/28V TEST 4

SW LATCH 5
ON RSB/RCB CARD IS BAD

-----> P1P1 ENC ALT A1N,
P2J4 SW17/28V TEST 17,
P2A5 SW5/28V TEST 5

SW LATCH 6
ON RSB/RCB CARD IS BAD

-----> P1N1 ENC ALT C4N,
P2H4 SW18/28V TEST 18,
P2K6 SW6/28V TEST 6

SW LATCH 7
ON RSB/RCB CARD IS BAD

-----> P1M1 ENC ALT A4N,
P2G4 SW19/28V TEST 19,
P2J6 SW7/28V TEST 7

ERROR MESSAGE -----	CHECK POINTS -----
<u>RSB/RCB/STRAPS CCA AA6 (cont)</u>	
SW LATCH 8 ON RSB/RCB CARD IS BAD	-----> P1L1 ENC ALT C1N, P2F4 SW20/28V TEST 20, P2H6 SW8/28V TEST 8
SW LATCH 9 ON RSB/RCB CARD IS BAD	-----> P1T2 ENC ALT D4N, P2E4 SW21/28V TEST 21, P2F2 SW9/28V TEST 9
SW LATCH 10 ON RSB/RCB CARD IS BAD	-----> P1U2 ENC ALT C2N, P2D4 SW22/28V TEST 22, P2E2 SW10/28V TEST 10
SW LATCH 11 ON RSB/RCB CARD IS BAD	-----> P1V2 ENC ALT D2N, P2C4 SW23/28V TEST 23, P2D2 SW11/28V TEST 11
SW LATCH 12 ON RSB/RCB CARD IS BAD	-----> P2B4 SW24/28 V TEST 24, P2C2 SW12/28V TEST 12
<u>SERIAL INTERFACE CCA A8</u>	
SIF CARD IS BAD	-----> Flipflop is bad, Microprocessor U43 (80C154)
ACH CLOCK ON SIF CARD IS BAD	-----> P1C3 ACH CLK HI, P1N2 ACH CLK HI, P1D3 ACH CLK LO, P1P2 ACH CLK LO
ACH DATA ON SIF CARD IS BAD	-----> P1A3 ACH DATA HI, P1L2 ACH DATA HI, P1B3 ACH DATA LO, P1M2 ACH DATA LO
ACH LOAD ON SIF CARD IS BAD	-----> P1E3 ACH LOAD HI, P1R2 ACH LOAD HI, P1F3 ACH LOAD LO, P1S2 ACH LOAD LO

RTIU Self-Test Error Messages and CPU CCA A5 LEDs
Table 1 (cont)

ERROR MESSAGE

CHECK POINTS

SERIAL INTERFACE CCA A8 (cont)

CHAN 1 422 ON SIF CARD IS BAD	----->	P1A2 RS-422 IN 1 LO, P1T5 RS-422 OUT 1 LO, P1B2 RS-422 IN 1 HI, P1S5 RS-422 OUT 1 HI
CHAN 2 422 ON SIF CARD IS BAD	----->	P1J5 RS-422 IN 2 LO, P1V5 RS-422 OUT 2 LO, P1K5 RS-422 IN 2 HI, P1U5 RS-422 OUT 2 HI
CHAN 3 422 ON SIF CARD IS BAD	----->	P1G5 RS-422 IN 3 LO, P1N4 RS-422 OUT 3 LO, P1H5 RS-422 IN 3 HI, P1M4 RS-422 OUT 3 HI
CHAN 4 422 ON SIF CARD IS BAD	----->	P1E5 RS-422 IN 4 LO, P1R4 RS-422 OUT 4 LO, P1F5 RS-422 IN 4 HI, P1P4 RS-422 OUT 4 HI
CHAN 5 422 ON SIF CARD IS BAD	----->	P1C5 RS-422 IN 5 LO, P1T4 RS-422 OUT 5 LO, P1D5 RS-422 IN 5 HI, P1S4 RS-422 OUT 5 HI
CHAN 6 422 ON SIF CARD IS BAD	----->	P1A5 RS-422 IN 6 LO, P1V4 RS-422 OUT 6 LO, P1B5 RS-422 IN 6 HI, P1U4 RS-422 OUT 6 HI
ENCODED ALT OUTPUT A1 ON SIF CARD IS BAD	----->	P1P1 ENC ALT A1N, P2J4 SW17/28V TEST 17, P2A5 SW5/28V TEST 5
ENCODED ALT OUTPUT A2 ON SIF CARD IS BAD	----->	P1S1 ENC ALT A2N, P2C5 SW15/28V TEST 15, P2E6 SW3/28V TEST 3
ENCODED ALT OUTPUT A4 ON SIF CARD IS BAD	----->	P1M1 ENC ALT A4N, P2G4 SW19/28V TEST 19, P2J6 SW7/28V TEST 7

RTIU Self-Test Error Messages and CPU CCA A5 LEDs
Table 1 (cont)

ERROR MESSAGE -----	CHECK POINTS -----
<u>SERIAL INTERFACE CCA A8 (cont)</u>	
ENCODED ALT OUTPUT B1 ON SIF CARD IS BAD	-----> P1T1 ENC ALT B1N, P2D5 SW14/28V TEST 14, P2F6 SW2/28V TEST 2
ENCODED ALT OUTPUT B2 ON SIF CARD IS BAD	-----> P1R1 ENC ALT A4N, P2B5 SW16/28V TEST 16, P2D6 SW4/28V TEST 4
ENCODED ALT OUTPUT B4 ON SIF CARD IS BAD	-----> P1U1 ENC ALT B4N, P2B2 SW13/28V TEST 13, P2G6 SW1/28V TEST 1
ENCODED ALT OUTPUT C1 ON SIF CARD IS BAD	-----> P1L1 ENC ALT C1N, P2F4 SW20/28V TEST 20, P2H6 SW8/28V TEST 8
ENCODED ALT OUTPUT C2 ON SIF CARD IS BAD	-----> P1U2 ENC ALT C2N, P2D4 SW22/28V TEST 22, P2E2 SW10/28V TEST 10
ENCODED ALT OUTPUT C4 ON SIF CARD IS BAD	-----> P1N1 ENC ALT C4N, P2H4 SW18/28V TEST 18, P2K6 SW6/28V TEST 6
ENCODED ALT OUTPUT D2 ON SIF CARD IS BAD	-----> P1V2 ENC ALT D2N, P2C4 SW23/28V TEST 23, P2D2 SW11/28V TEST 11
ENCODED ALT OUTPUT D4 ON SIF CARD IS BAD	-----> P1T2 ENC ALT D4N, P2E4 SW21/28V TEST 21, P2F2 SW9/28V TEST 9
429 ON SIF CARD IS BAD	-----> P1E6 ARINC 429 SELF TEST HI, P1F6 ARINC 429 SELF TEST LO, P1G6 ARINC 429 12.5 KHZ HI, P1H6 ARINC 429 12.5 KHZ LO

RTIU Self-Test Error Messages and CPU CCA A5 LEDs
Table 1 (cont)

ERROR MESSAGE

CHECK POINTS

SERIAL INTERFACE CCA A8 (cont)

568 LOW BYTE ON SIF CARD IS BAD	----->	P1C6 ARINC 568 SELF TEST SYNC, P1B6 ARINC 568 SELF TEST CLOCK, P1A6 ARINC 568 SELF TEST DATA, P1D6 ARINC 568 SELF TEST COM,
568 MIDDLE BYTE ON SIF CARD IS BAD		P1J6 ARINC 568 SYNC HI, P1C2 ARINC 568 SYNC LO,
568 HIGH BYTE ON SIF CARD IS BAD		P1J3 ARINC 568 CLK HI, P1K3 ARINC 568 CLK LO,
568 ON SIF CARD NOT RESPONDING		P1G3 ARINC 568 DATA HI, P1H3 ARINC 568 DATA LO

CPU CCA A5 LEDs

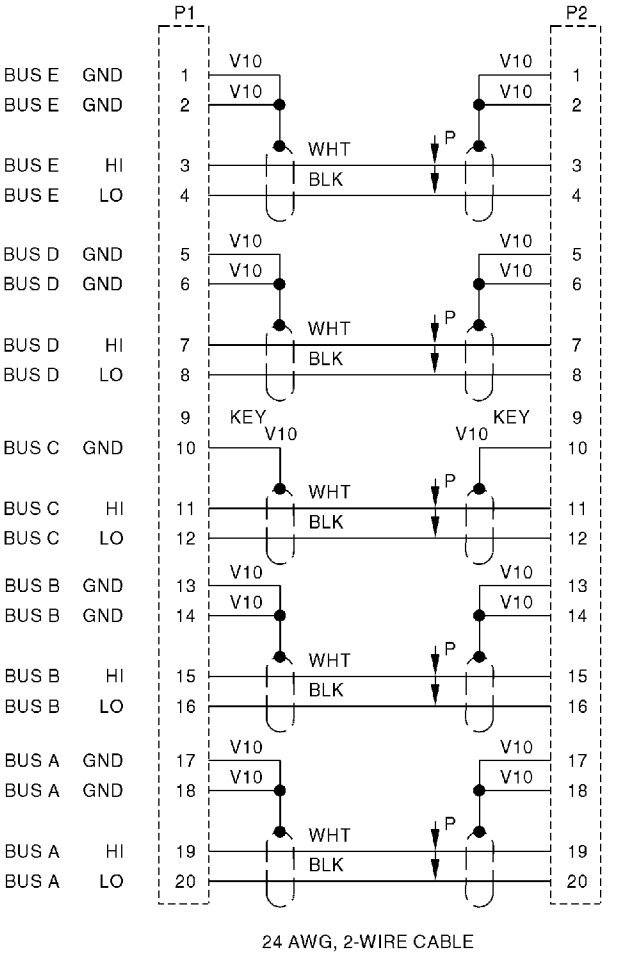
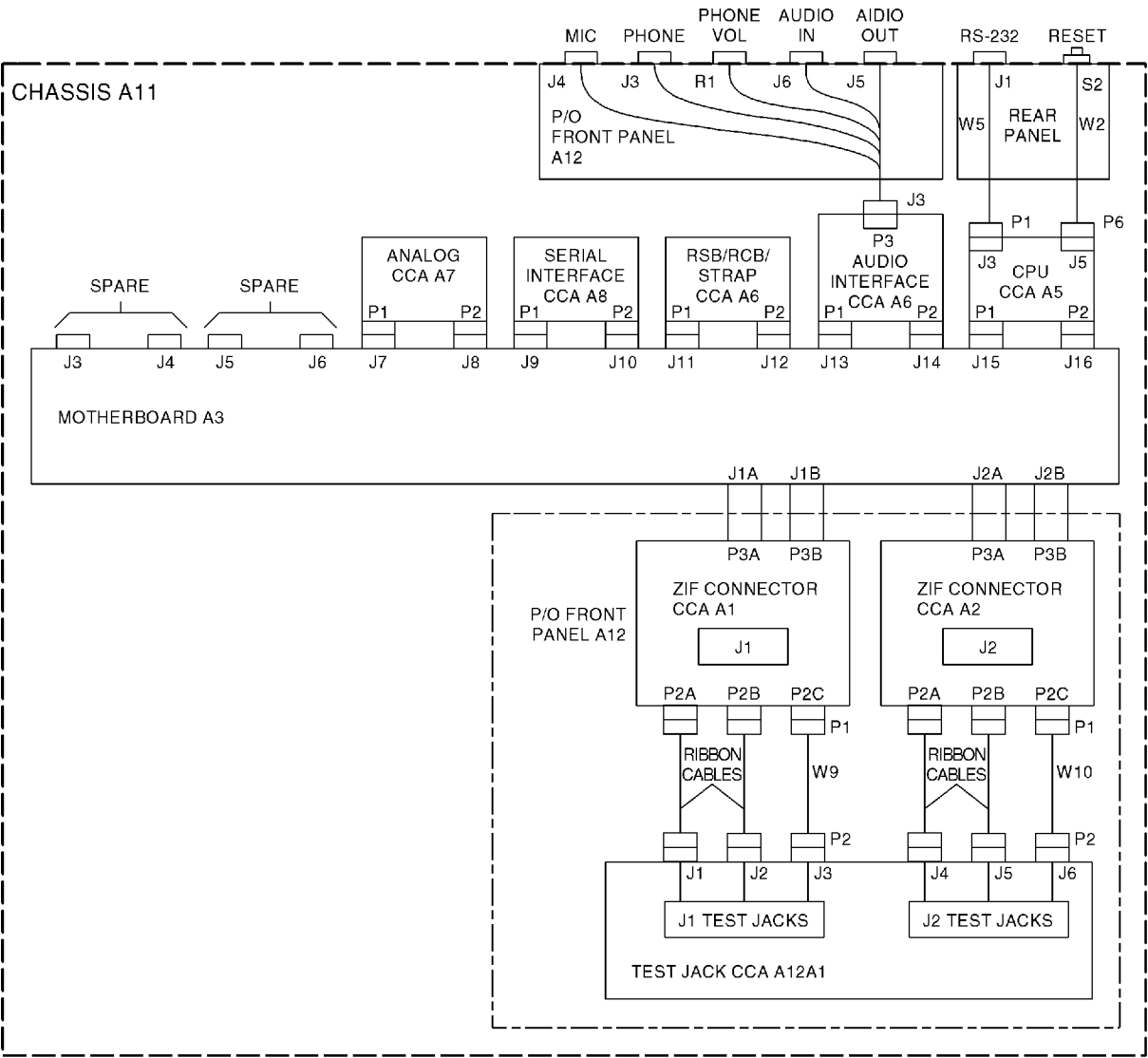
80C154 ON SIF CARD NOT RESPONDING	----->	Microprocessor U43 (80C154) is bad
6 LEDs ON	----->	Microprocessor U105 (80C88), Clock is bad
5 LEDs ON	----->	EPROM U110 Checksum is bad
4 LEDs ON	----->	RAM is bad
3 LEDs ON	----->	RS-232 Controller U109 is bad
2 LEDs ON	----->	Interrupt Controller U111 is bad
1 LED ON	----->	Timer U116 is bad
NO LED ON	----->	CPU and Support Circuitry are okay.

RTIU Self-Test Error Messages and CPU CCA A5 LEDs
Table 1 (cont)

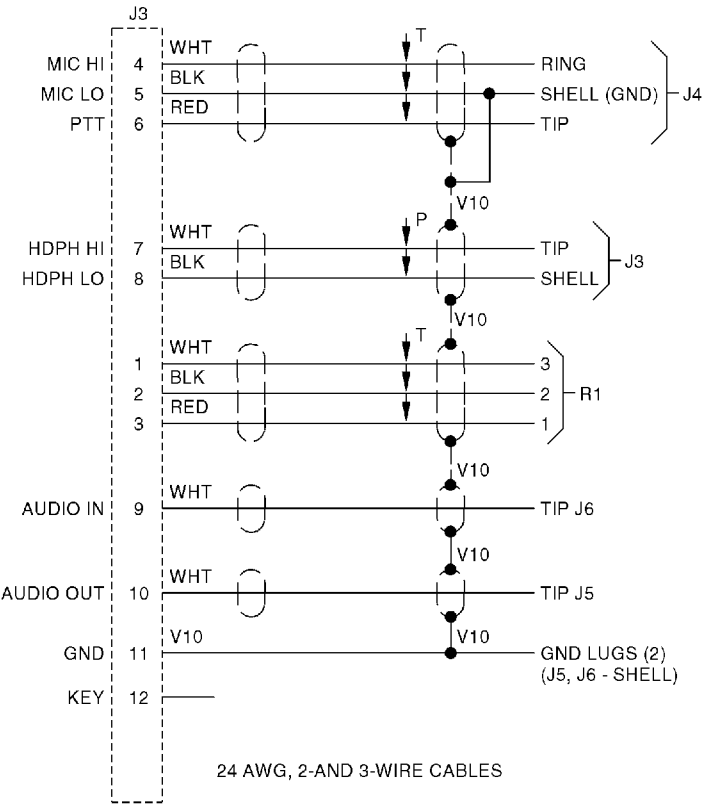
Revision Code (Arrow No.)	Revision Description	Effectivity
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Revision Reference Sheet
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W9, W10 TEST JACK/ZIF CABLE ASSEMBLY, PART NO. 7511464-901



AUDIO LEAD ASSEMBLY, PART NO. 7511464-902

- NOTES:
- RTIU subassemblies are as follows:

REF DES	PART NO.	DESCRIPTION
A1/A2	7511420	ZIF CONNECTOR CCA
A3	7511490	MOTHERBOARD
A4	-	-
A5	7511480	CPU CCA
A6	7511470	RSB/RCB/STRAP CCA
A7	7511460	ANALOG CCA
A8	7511440	SERIAL INTERFACE CCA

REF DES	PART NO.	DESCRIPTION
A9	-	-
A10	7511430	AUDIO CCA
A10A1	7511432	AUDIO DSP CCA
A11	7511424	CHASSIS
A11A1	7511434	POWER SUPPLY
A12	7511414	FRONT PANEL
A12A1	7511410	TEST JACK CCA

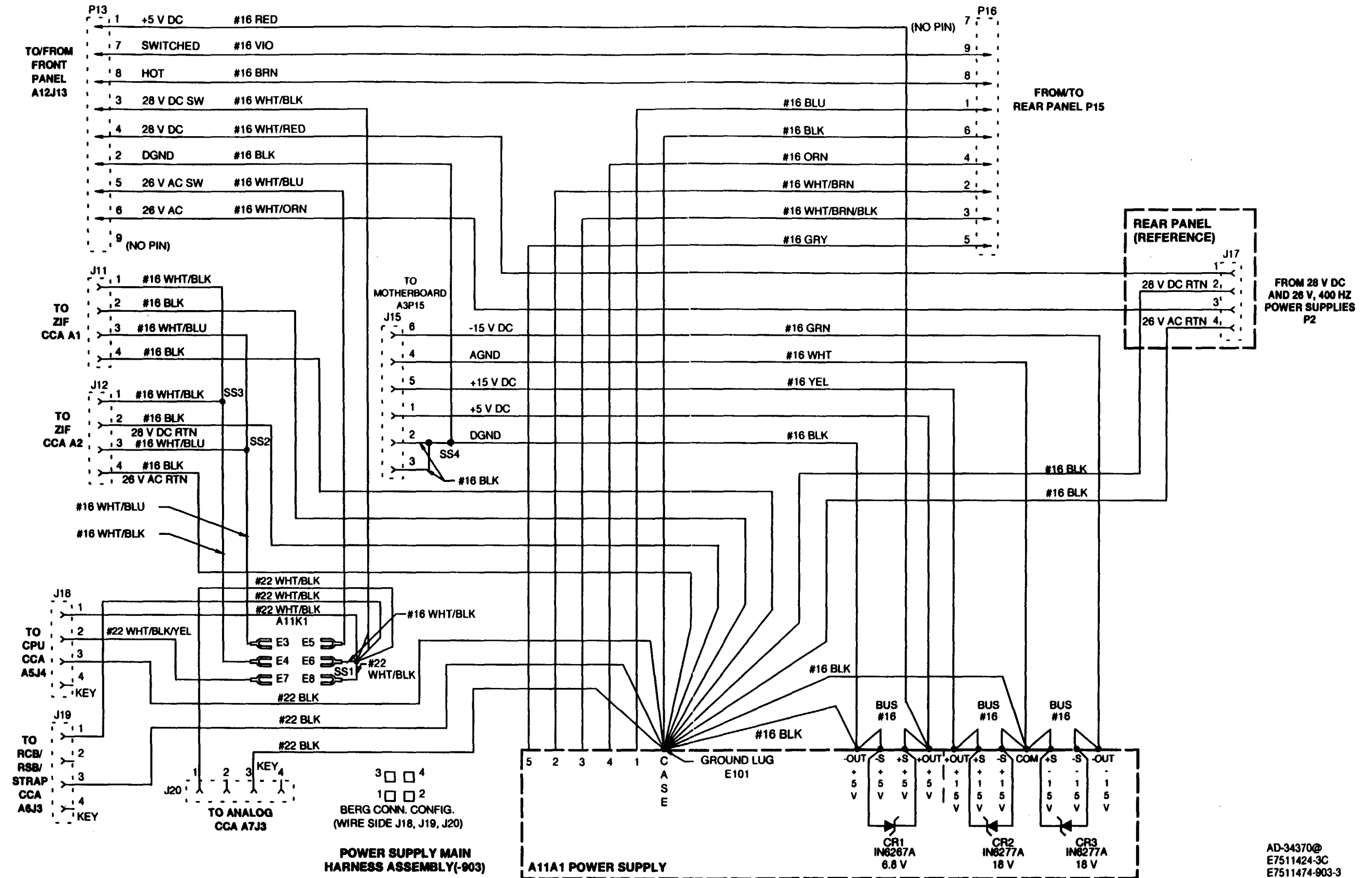
- W5 is RS-232 ribbon cable assembly.
- W2 reset lead assembly, PN 7511464-903, uses AWG 24 wire.

Figure 1. RTIU Signal Interconnect Diagram

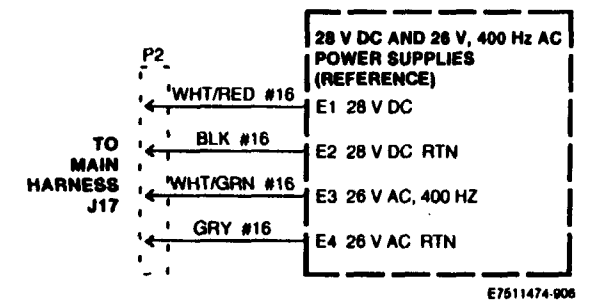
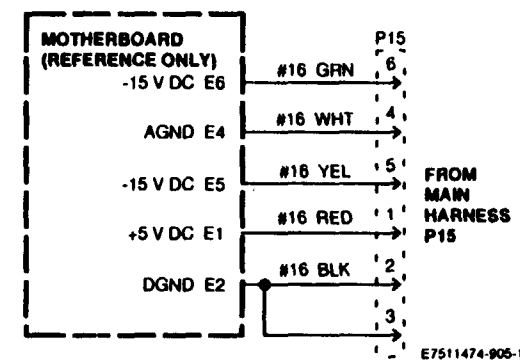
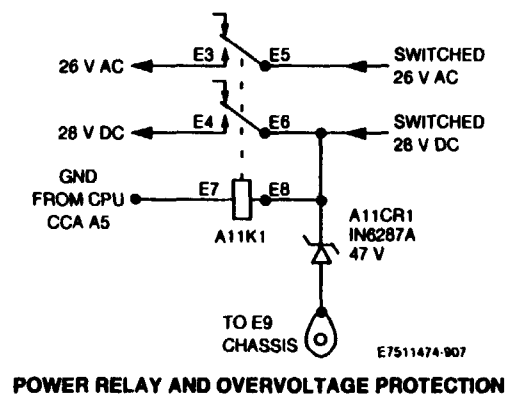
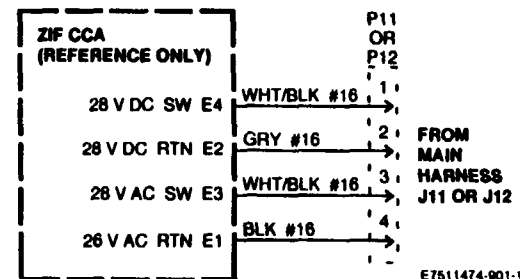
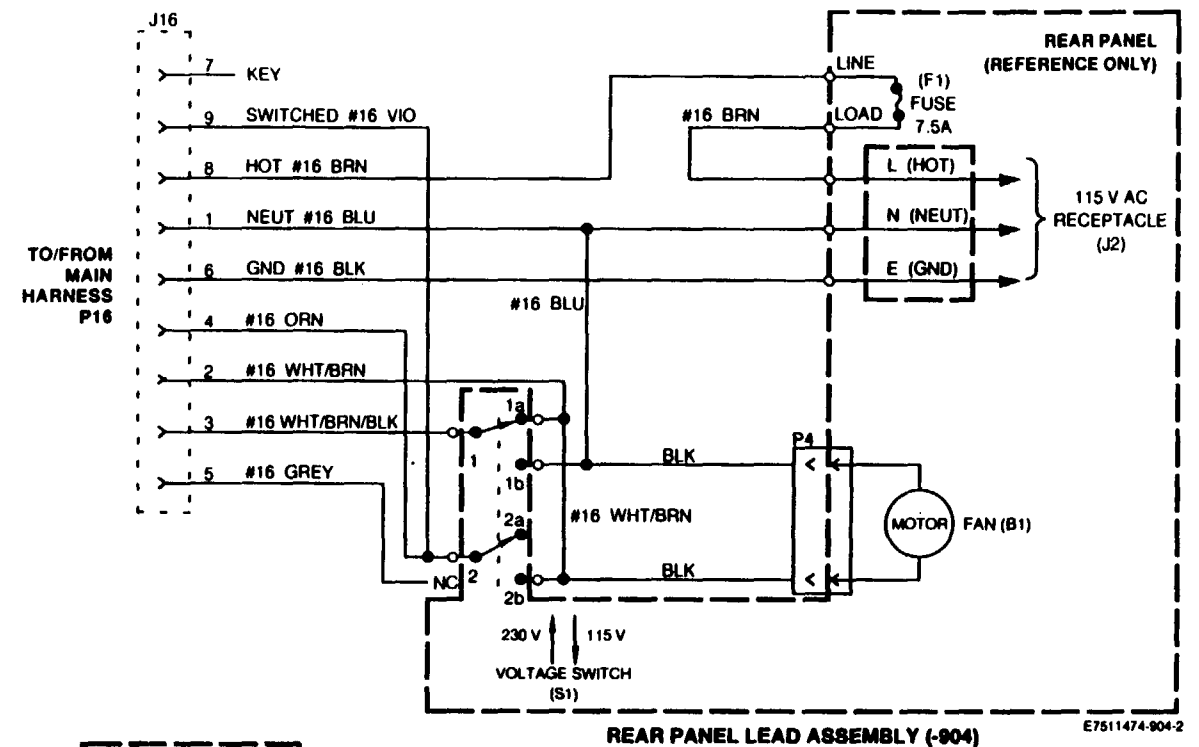
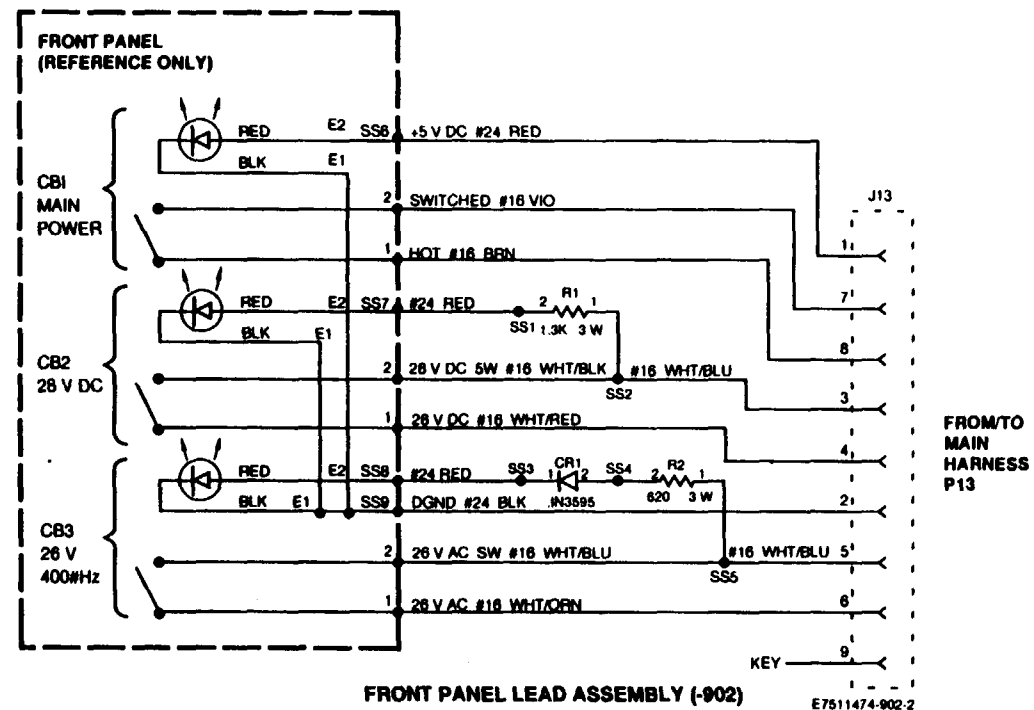
Revision Code (Arrow No.)	Revision Description	Effectivity
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Revision Reference Sheet
for Figure 2

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RTIU Power Supply Interconnect Diagram
Figure 2 (Sheet 1 of 2)



ASSEMBLY PART NO.	DESCRIPTION
7511474-901	ZIF CONNECTOR CCA A1/A2 LEAD ASSEMBLIES
7511474-902	FRONT PANEL LEAD ASSEMBLY
7511474-903	POWER SUPPLY MAIN HARNESS ASSEMBLY
7511474-904	REAR PANEL LEAD ASSEMBLY
7511474-905	MOTHERBOARD LEAD ASSEMBLY
7511474-906	POWER SUPPLIES LEAD ASSEMBLY
7511474-907	OVERVOLTAGE PROTECTION DIODE

AD-34371@

RTIU Power Supply Interconnect Diagram
Figure 2 (Sheet 2)

FRONT	ZIF	ZIF TO M	ZIFE	TSTJ E	COLOR	MOTHERBOARD		DESCRIPTION	SHORT DESCRIPTION	I O
J1G3	A1J1A-39	A1J3A-57		A4E 39	WHI	A3J1A-57	A3J10-B9	ARINC 568 DATA HI	568-DATA-HI	INPUT
J1H3	A1J1A-45	A1J3A-55		A4E 45	WHI	A3J1A-55	A3J10-B10	ARINC 568 DATA LO	568-DATA-LO	INPUT
J1J3	A1J1A-51	A1J3A-53		A4E 51	WHI	A3J1A-53	A3J10-B7	ARINC 568 CLOCK HI	568-CLOCK-HI	INPUT
J1K3	A1J1A-57	A1J3A-51		A4E 57	YEL	A3J1A-51	A3J10-B8	ARINC 568 CLOCK LO	568-CLOCK-LO	INPUT
J1J6	A1J1A-54	A1J3A-54		A4E 54	BLK	A3J1A-54	A3J10-B5	ARINC 568 SYNC HI	568-SYNC-HI	INPUT
J1C2	A1J1A-14	A1J3A-45		A4E 14	BLK	A3J1A-45	A3J10-B6	ARINC 568 SYNC LO	568-SYNC-LO	INPUT
J1G6	A1J1A-42	A1J3A-58		A4E 42	BLK	A3J1A-58	A3J10-B4	ARINC 429 12.5 KHZ HI	429-IN-HI	INPUT
J1H6	A1J1A-48	A1J3A-56		A4E 48	BLK	A3J1A-56	A3J10-B3	ARINC 429 12.5 KHZ LO	429-IN-LO	INPUT
J1A3	A1J1A- 3	A1J3A-69		A4E 3	WHI	A3J1A-69	A3J10-A26	ACH DATA HI	ACH-DATA-OUT-HI	OUTPUT
J1B3	A1J1A- 9	A1J3A-67		A4E 9	WHI	A3J1A-67	A3J10-A25	ACH DATA LO	ACH-DATA-OUT-LO	OUTPUT
J1C3	A1J1A-15	A1J3A-65		A4E 15	WHI	A3J1A-65	A3J10-A7	ACH CLOCK HI	ACH-CLOCK-IN-HI	INPUT
J1D3	A1J1A-21	A1J3A-63		A4E 21	WHI	A3J1A-63	A3J10-A8	ACH CLOCK LO	ACH-CLOCK-IN-LO	INPUT
J1E3	A1J1A-27	A1J3A-61		A4E 27	RED	A3J1A-61	A3J10-A5	ACH LOAD HI	ACH-LOAD-IN-HI	INPUT
J1F3	A1J1A-33	A1J3A-59		A4E 33	WHI	A3J1A-59	A3J10-A6	ACH LOAD LO	ACH-LOAD-IN-LO	INPUT
J1L2	A1J1A-62	A1J3B-59		A4E 62	BLK	A3J1B-59	A3J10-B24	ACH DATA HI	ACH-DATA-IN-HI	INPUT
J1M2	A1J1A-68	A1J3B-57		A4E 68	BLK	A3J1B-57	A3J10-B23	ACH DATA LO	ACH-DATA-IN-LO	INPUT
J1N2	A1J1A-74	A1J3B-55		A4E 74	BLK	A3J1B-55	A3J10-A28	ACH CLOCK HI	ACH-CLOCK-OUT-HI	OUTPUT
J1P2	A1J1B- 2	A1J3B-53		A4E 80	BLK	A3J1B-53	A3J10-A27	ACH CLOCK LO	ACH-CLOCK-OUT-LO	OUTPUT
J1R2	A1J1B- 8	A1J3B-51		A4E 86	GRN	A3J1B-51	A3J10-B26	ACH LOAD HI	ACH-LOAD-OUT-HI	OUTPUT
J1S2	A1J1B-14	A1J3B-49		A4E 92	BLK	A3J1B-49	A3J10-B25	ACH LOAD LO	ACH-LOAD-OUT-LO	OUTPUT
J1S5	A1J1B-17	A1J3B-50		A4E 95	WHI	A3J1B-50	A3J10-A32	RS 422 OUT 1 HI	RS-422-OUT-1-HI	OUTPUT
J1T5	A1J1B-23	A1J3B-48		A4E101	WHI	A3J1B-48	A3J10-A31	RS 422 OUT 1 LO	RS-422-OUT-1-LO	OUTPUT
J1U5	A1J1B-29	A1J3B-46		A4E107	WHI	A3J1B-46	A3J10-A29	RS 422 OUT 2 HI	RS-422-OUT-2-HI	OUTPUT
J1V5	A1J1B-35	A1J3B-44		A4E113	WHI	A3J1B-44	A3J10-A30	RS 422 OUT 2 LO	RS-422-OUT-2-LO	OUTPUT
J1M4	A1J1A-70	A1J3B-38		A4E 70	BLK	A3J1B-38	A3J10-A36	RS 422 OUT 3 HI	RS-422-OUT-3-HI	OUTPUT
J1N4	A1J1A-76	A1J3B-36		A4E 76	BLK	A3J1B-36	A3J10-A35	RS 422 OUT 3 LO	RS-422-OUT-3-LO	OUTPUT
J1P4	A1J1B- 4	A1J3B-34		A4E 82	BLK	A3J1B-34	A3J10-A34	RS 422 OUT 4 HI	RS-422-OUT-4-HI	OUTPUT
J1R4	A1J1B-10	A1J3B-32		A4E 88	GRN	A3J1B-32	A3J10-A33	RS 422 OUT 4 LO	RS-422-OUT-4-LO	OUTPUT
J1S4	A1J1B-16	A1J3B-30		A4E 94	BLK	A3J1B-30	A3J10-A40	RS 422 OUT 5 HI	RS-422-OUT-5-HI	OUTPUT
J1T4	A1J1B-22	A1J3B-28		A4E100	BLK	A3J1B-28	A3J10-A39	RS 422 OUT 5 LO	RS-422-OUT-5-LO	OUTPUT
J1U4	A1J1B-28	A1J3B-26		A4E106	BLK	A3J1B-26	A3J10-A37	RS 422 OUT 6 HI	RS-422-OUT-6-HI	OUTPUT
J1V4	A1J1B-34	A1J3B-24		A4E112	BLK	A3J1B-24	A3J10-A38	RS 422 OUT 6 LO	RS-422-OUT-6-LO	OUTPUT
J1B2	A1J1A- 8	A1J3A-47		A4E 8	BLK	A3J1A-47	A3J10-A20	RS 422 IN 1 HI	RS-422-IN-1-HI	INPUT
J1A2	A1J1A- 2	A1J3A-49		A4E 2	BLK	A3J1A-49	A3J10-A19	RS 422 IN 1 LO	RS-422-IN-1-LO	INPUT
J1K5	A1J1A-59	A1J3A-32		A4E 59	YEL	A3J1A-32	A3J10-A18	RS 422 IN 2 HI	RS-422-IN-2-HI	INPUT
J1J5	A1J1A-53	A1J3A-34		A4E 53	WHI	A3J1A-34	A3J10-A17	RS 422 IN 2 LO	RS-422-IN-2-LO	INPUT
J1H5	A1J1A-47	A1J3A-36		A4E 47	WHI	A3J1A-36	A3J10-A13	RS 422 IN 3 HI	RS-422-IN-3-HI	INPUT
J1G5	A1J1A-41	A1J3A-38		A4E 41	WHI	A3J1A-38	A3J10-A14	RS 422 IN 3 LO	RS-422-IN-3-LO	INPUT
J1F5	A1J1A-35	A1J3A-40		A4E 35	WHI	A3J1A-40	A3J10-A15	RS 422 IN 4 HI	RS-422-IN-4-HI	INPUT
J1E5	A1J1A-29	A1J3A-42		A4E 29	RED	A3J1A-42	A3J10-A16	RS 422 IN 4 LO	RS-422-IN-4-LO	INPUT
J1D5	A1J1A-23	A1J3A-44		A4E 23	WHI	A3J1A-44	A3J10-A11	RS 422 IN 5 HI	RS-422-IN-5-HI	INPUT
J1C5	A1J1A-17	A1J3A-46		A4E 17	WHI	A3J1A-46	A3J10-A12	RS 422 IN 5 LO	RS-422-IN-5-LO	INPUT
J1B5	A1J1A-11	A1J3A-48		A4E 11	WHI	A3J1A-48	A3J10-A10	RS 422 IN 6 HI	RS-422-IN-6-HI	INPUT
J1A5	A1J1A- 5	A1J3A-50		A4E 5	WHI	A3J1A-50	A3J10-A9	RS 422 IN 6 LO	RS-422-IN-6-LO	INPUT
J1V2	A1J1B-32	A1J3B-43		A4E110	BLK	A3J1B-43	A3J10-B27	ENC ALT D2N	ENC-ALT-D2N	OUTPUT
J1U2	A1J1B-26	A1J3B-45		A4E104	BLK	A3J1B-45	A3J10-B28	ENC ALT C2N	ENC-ALT-C2N	OUTPUT
J1T2	A1J1B-20	A1J3B-47		A4E 98	BLK	A3J1B-47	A3J10-B29	ENC ALT D4N	ENC-ALT-D4N	OUTPUT
J1L1	A1J1A-61	A1J3B-39		A4E 61	WHI	A3J1B-39	A3J10-B30	ENC ALT C1N	ENC-ALT-C1N	OUTPUT
J1M1	A1J1A-67	A1J3B-37		A4E 67	WHI	A3J1B-37	A3J10-B31	ENC ALT A4N	ENC-ALT-A4N	OUTPUT
J1N1	A1J1A-73	A1J3B-35		A4E 73	WHI	A3J1B-35	A3J10-B32	ENC ALT C4N	ENC-ALT-C4N	OUTPUT

ZIF Connector to Test Jack CCA to Motherboard Cross-Reference
Table 2 (Sheet 1 of 7)

FRONT	ZIF	ZIF TO M	ZIFE	TSTJ E	COLOR	MOTHERBOARD		DESCRIPTION	SHORT DESCRIPTION	I O
J1P1	A1J1B- 1	A1J3B-33		A4E 79	WHI	A3J1B-33	A3J10-B33	ENC ALT A1N	ENC-ALT-A1N	OUTPUT
J1R1	A1J1B- 7	A1J3B-31		A4E 85	RED	A3J1B-31	A3J10-B34	ENC ALT B2N	ENC-ALT-B2N	OUTPUT
J1S1	A1J1B-13	A1J3B-29		A4E 91	WHI	A3J1B-29	A3J10-B35	ENC ALT A2N	ENC-ALT-A2N	OUTPUT
J1T1	A1J1B-19	A1J3B-27		A4E 97	WHI	A3J1B-27	A3J10-B36	ENC ALT B1N	ENC-ALT-B1N	OUTPUT
J1U1	A1J1B-25	A1J3B-25		A4E103	WHI	A3J1B-25	A3J10-B37	ENC ALT B4N	ENC-ALT-B4N	OUTPUT
J1V1	A1J1B-31	A1J3B-23		A4E109	WHI	A3J1B-23	A3J10-B38	ENC ALT COMMON	ENC-ALT-COMMON	OUTPUT
J1A6	A1J1A- 6	A1J3A-70		A4E 6	BLK	A3J1A-70	A3J10-A1	ARINC 568 SELF TEST DATA	DATA	OUTPUT
J1B6	A1J1A-12	A1J3A-68		A4E 12	BLK	A3J1A-68	A3J10-B2	ARINC 568 SELF TEST CLOCK	CLOCK	OUTPUT
J1C6	A1J1A-18	A1J3A-66		A4E 18	BLK	A3J1A-66	A3J10-A2	ARINC 568 SELF TEST SYNC	SYNC	OUTPUT
J1D6	A1J1A-24	A1J3A-64		A4E 24	BLK	A3J1A-64	A3J10-B1	ARINC 568 SELF TEST COMMON	COMMON	OUTPUT
J1E6	A1J1A-30	A1J3A-62		A4E 30	GRN	A3J1A-62	A3J10-A3	ARINC 429 SELF TEST HI	429-OUT-LO	OUTPUT
J1F6	A1J1A-36	A1J3A-60		A4E 36	BLK	A3J1A-60	A3J10-A4	ARINC 429 SELF TEST LO	429-OUT-HI	OUTPUT
J2A4	A2J1A- 4	A2J3A-30		A4E204	BLK	A3J2A-30	A3J12-A40	SIDE SELECT A0	SIDE-SELECT-A0	OUTPUT
J2K5	A2J1A-59	A2J3A-32		A4E259	YEL	A3J2A-32	A3J12-A39	SIDE SELECT A1	SIDE-SELECT-A1	OUTPUT
J2J5	A2J1A-53	A2J3A-34		A4E253	WHI	A3J2A-34	A3J12-A38	SIDE SELECT PARITY	SIDE-SEL-PARITY	OUTPUT
J2K4	A2J1A-58	A2J3A-12		A4E258	BLU	A3J2A-12	A3J12-A37	STRAP +5V	STRAP+5V	INPUT
J2L6	A2J1A-66	A2J3A-10		A4E266	BLK	A3J2A-10	A3J12-A36	STRAP GND	STRAP-GND	INPUT
J2H1	A2J1A-43	A2J3A-15		A4E243	WHI	A3J2A-15	A3J12-B22	STRAP DATA	STRAP-DATA	OUTPUT
J2K1	A2J1A-55	A2J3A-11		A4E255	YEL	A3J2A-11	A3J12-B24	STRAP CLOCK	STRAP-CLOCK	INPUT
J2J1	A2J1A-49	A2J3A-13		A4E249	WHI	A3J2A-13	A3J12-B23	STRAP LOAD	STRAP-LOAD	INPUT
J2G6	A2J1A-42	A2J3A-58		A4E242	BLK	A3J2A-58	A3J12-A17	SW1 / 28 V TEST 1	SW1	I/O
J2F6	A2J1A-36	A2J3A-60		A4E236	BLK	A3J2A-60	A3J12-B17	SW2 / 28 V TEST 2	SW2	I/O
J2E6	A2J1A-30	A2J3A-62		A4E230	GRN	A3J2A-62	A3J12-A16	SW3 / 28 V TEST 3	SW3	I/O
J2D6	A2J1A-24	A2J3A-64		A4E224	BLK	A3J2A-64	A3J12-B16	SW4 / 28 V TEST 4	SW4	I/O
J2A5	A2J1A- 5	A2J3A-50		A4E205	WHI	A3J2A-50	A3J12-A19	SW5 / 28 V TEST 5	SW5	I/O
J2K6	A2J1A-60	A2J3A-52		A4E260	BLU	A3J2A-52	A3J12-B19	SW6 / 28 V TEST 6	SW6	I/O
J2J6	A2J1A-54	A2J3A-54		A4E254	BLK	A3J2A-54	A3J12-A18	SW7 / 28 V TEST 7	SW7	I/O
J2H6	A2J1A-48	A2J3A-56		A4E248	BLK	A3J2A-56	A3J12-B18	SW8 / 28 V TEST 8	SW8	I/O
J2A2	A2J1A- 2	A2J3A-49		A4E202	BLK	A3J2A-49	A3J12-A27	HC IN 1	HC-IN-1	INPUT
J2K3	A2J1A-57	A2J3A-51		A4E257	YEL	A3J2A-51	A3J12-A26	HC IN 2	HC-IN-2	INPUT
J2J3	A2J1A-51	A2J3A-53		A4E251	WHI	A3J2A-53	A3J12-A25	HC IN 3	HC-IN-3	INPUT
J2H3	A2J1A-45	A2J3A-55		A4E245	WHI	A3J2A-55	A3J12-A24	HC IN 4	HC-IN-4	INPUT
J2G3	A2J1A-39	A2J3A-57		A4E239	WHI	A3J2A-57	A3J12-A23	HC IN 5	HC-IN-5	INPUT
J2F3	A2J1A-33	A2J3A-59		A4E233	WHI	A3J2A-59	A3J12-A22	HC IN 6	HC-IN-6	INPUT
J2E3	A2J1A-27	A2J3A-61		A4E227	RED	A3J2A-61	A3J12-A21	HC IN 7	HC-IN-7	INPUT
J2D3	A2J1A-21	A2J3A-63		A4E221	WHI	A3J2A-63	A3J12-A20	HC IN 8	HC-IN-8	INPUT
J2F2	A2J1A-32	A2J3A-39		A4E232	BLK	A3J2A-39	A3J12-B32	SW9 / 28 V TEST 9	SW9	I/O
J2E2	A2J1A-26	A2J3A-41		A4E226	GRN	A3J2A-41	A3J12-B31	SW10 / 28 V TEST 10	SW10	I/O
J2D2	A2J1A-20	A2J3A-43		A4E220	BLK	A3J2A-43	A3J12-B30	SW11 / 28 V TEST 11	SW11	I/O
J2C2	A2J1A-14	A2J3A-45		A4E214	BLK	A3J2A-45	A3J12-B29	SW12 / 28 V TEST 12	SW12	I/O
J2B2	A2J1A- 8	A2J3A-47		A4E208	BLK	A3J2A-47	A3J12-B28	SW13 / 28 V TEST 13	SW13	I/O
J2D5	A2J1A-23	A2J3A-44		A4E223	WHI	A3J2A-44	A3J12-B27	SW14 / 28 V TEST 14	SW14	I/O
J2C5	A2J1A-17	A2J3A-46		A4E217	WHI	A3J2A-46	A3J12-B26	SW15 / 28 V TEST 15	SW15	I/O
J2B5	A2J1A-11	A2J3A-48		A4E211	WHI	A3J2A-48	A3J12-B25	SW16 / 28 V TEST 16	SW16	I/O
J2K2	A2J1A-56	A2J3A-31		A4E256	BLU	A3J2A-31	A3J12-B40	HC OUT 1	HC-OUT-1	OUTPUT
J2J2	A2J1A-50	A2J3A-33		A4E250	BLK	A3J2A-33	A3J12-B39	HC OUT 2	HC-OUT-2	OUTPUT
J2H2	A2J1A-44	A2J3A-35		A4E244	BLK	A3J2A-35	A3J12-B38	HC OUT 3	HC-OUT-3	OUTPUT
J2G2	A2J1A-38	A2J3A-37		A4E238	BLK	A3J2A-37	A3J12-B37	HC OUT 4	HC-OUT-4	OUTPUT

ZIF Connector to Test Jack CCA to Motherboard Cross-Reference
Table 2 (Sheet 2)

FRONT	ZIF	ZIF TO M	ZIFE	TSTJ E	COLOR	MOTHERBOARD	DESCRIPTION	SHORT DESCRIPTION	I O
J2H5	A2J1A-47	A2J3A-36		A4E247	WHI	A3J2A-36 A3J12-B36	HC OUT 5	HC-OUT-5	OUTPUT
J265	A2J1A-41	A2J3A-38		A4E241	WHI	A3J2A-38 A3J12-B35	HC OUT 6	HC-OUT-6	OUTPUT
J2F5	A2J1A-35	A2J3A-40		A4E235	WHI	A3J2A-40 A3J12-B34	HC OUT 7	HC-OUT-7	OUTPUT
J2E5	A2J1A-29	A2J3A-42		A4E229	RED	A3J2A-42 A3J12-B33	HC OUT 8	HC-OUT-8	OUTPUT
J2J4	A2J1A-52	A2J3A-14		A4E252	BLK	A3J2A-14 A3J12-A35	SW17 / 28 V TEST 17	SW17	I/O
J2H4	A2J1A-46	A2J3A-16		A4E246	BLK	A3J2A-16 A3J12-A34	SW18 / 28 V TEST 18	SW18	I/O
J2G4	A2J1A-40	A2J3A-18		A4E240	BLK	A3J2A-18 A3J12-A33	SW19 / 28 V TEST 19	SW19	I/O
J2F4	A2J1A-34	A2J3A-20		A4E234	BLK	A3J2A-20 A3J12-A32	SW20 / 28 V TEST 20	SW20	I/O
J2E4	A2J1A-28	A2J3A-22		A4E228	GRN	A3J2A-22 A3J12-A31	SW21 / 28 V TEST 21	SW21	I/O
J2D4	A2J1A-22	A2J3A-24		A4E222	BLK	A3J2A-24 A3J12-A30	SW22 / 28 V TEST 22	SW22	I/O
J2C4	A2J1A-16	A2J3A-26		A4E216	BLK	A3J2A-26 A3J12-A29	SW23 / 28 V TEST 23	SW23	I/O
J2B4	A2J1A-10	A2J3A-28		A4E210	BLK	A3J2A-28 A3J12-A28	SW24 / 28 V TEST 24	SW24	I/O
J2B1	A2J1A- 7	A2J3A-27		A4E207	WHI	A3J2A-27 A3J12-B14	RCB REMOTE TX HI	RCB-REMOTE-TX-HI	OUTPUT
J2A1	A2J1A- 1	A2J3A-29		A4E201	WHI	A3J2A-29 A3J12-A14	RCB REMOTE TX LO	RCB-REMOTE-TX-LO	OUTPUT
J2C1	A2J1A-13	A2J3A-25		A4E213	WHI	A3J2A-25 A3J12-A13	RCB REMOTE RX HI	RCB-REMOTE-RX-HI	INPUT
J2D1	A2J1A-19	A2J3A-23		A4E219	WHI	A3J2A-23 A3J12-B13	RCB REMOTE RX LO	RCB-REMOTE-RX-LO	INPUT
J2E1	A2J1A-25	A2J3A-21		A4E225	RED	A3J2A-21 A3J12-A12	RCB LOCAL TX	RCB-LOCAL-TX	OUTPUT
J2F1	A2J1A-31	A2J3A-19		A4E231	WHI	A3J2A-19 A3J12-B12	RCB LOCAL RX	RCB-LOCAL-RX	INPUT
J2G1	A2J1A-37	A2J3A-17		A4E237	WHI	A3J2A-17 A3J12-A11	RCB GND	RCB-GND	I/O
J2R4	A2J1B-10	A2J3B-32		A4E288	GRN	A3J2B-32 A3J16-A16	HC IN 9	HC-IN-9	INPUT
J2P4	A2J1B- 4	A2J3B-34		A4E282	BLK	A3J2B-34 A3J16-A17	HC IN 10	HC-IN-10	INPUT
J2N4	A2J1A-76	A2J3B-36		A4E276	BLK	A3J2B-36 A3J16-A18	HC IN 11	HC-IN-11	INPUT
J2M4	A2J1A-70	A2J3B-38		A4E270	BLK	A3J2B-38 A3J16-A19	HC IN 12	HC-IN-12	INPUT
J2S4	A2J1B-16	A2J3B-30		A4E294	BLK	A3J2B-30 A3J16-A15	HC IN 13	HC-IN-13	INPUT
J2T4	A2J1B-22	A2J3B-28		A4E300	BLK	A3J2B-28 A3J16-A14	HC IN 14	HC-IN-14	INPUT
J2U4	A2J1B-28	A2J3B-26		A4E306	BLK	A3J2B-26 A3J16-A13	HC IN 15	HC-IN-15	INPUT
J2V4	A2J1B-34	A2J3B-24		A4E312	BLK	A3J2B-24 A3J16-A12	PS SYNC IN	PS-SYNC-IN	INPUT
J2M1	A2J1A-67	A2J3B-37		A4E267	WHI	A3J2B-37 A3J16-A2	HC OUT 9	HC-OUT-9	OUTPUT
J2N1	A2J1A-73	A2J3B-35		A4E273	WHI	A3J2B-35 A3J16-A3	HC OUT 10	HC-OUT-10	OUTPUT
J2P1	A2J1B- 1	A2J3B-33		A4E279	WHI	A3J2B-33 A3J16-A4	HC OUT 11	HC-OUT-11	OUTPUT
J2R1	A2J1B- 7	A2J3B-31		A4E285	RED	A3J2B-31 A3J16-A5	HC OUT 12	HC-OUT-12	OUTPUT
J2V1	A2J1B-31	A2J3B-23		A4E309	WHI	A3J2B-23 A3J16-A9	HC OUT 13	HC-OUT-13	OUTPUT
J2U1	A2J1B-25	A2J3B-25		A4E303	WHI	A3J2B-25 A3J16-A8	HC OUT 14	HC-OUT-14	OUTPUT
J2T1	A2J1B-19	A2J3B-27		A4E297	WHI	A3J2B-27 A3J16-A7	MUT SUP	MUT-SUP	I/O
J2S1	A2J1B-13	A2J3B-29		A4E291	WHI	A3J2B-29 A3J16-A6	PS SYNC OUT	PS-SYNC-OUT	OUTPUT
J2V5	A2J1B-35	A2J3B-44		A4E313	WHI	A3J2B-44 A3J14-A33	2.5 VRMS AUDIO 8.2 K OHM 1 HI	2.5RMS-8.2K-1-HI	INPUT
J2U5	A2J1B-29	A2J3B-46		A4E307	WHI	A3J2B-46 A3J14-A34	2.5 VRMS AUDIO 8.2 K OHM 1 LO	2.5RMS-8.2K-1-LO	INPUT
J2T5	A2J1B-23	A2J3B-48		A4E301	WHI	A3J2B-48 A3J14-A35	2.5 VRMS AUDIO 8.2 K OHM 2 HI	2.5RMS-8.2K-2-HI	INPUT
J2S5	A2J1B-17	A2J3B-50		A4E295	WHI	A3J2B-50 A3J14-A36	2.5 VRMS AUDIO 8.2 K OHM 2 LO	2.5RMS-8.2K-2-LO	INPUT
J2R5	A2J1B-11	A2J3B-52		A4E289	RED	A3J2B-52 A3J14-A37	2.5 VRMS AUDIO 600 OHM 6 HI	2.5RMS-0.6K-6-HI	INPUT
J2P5	A2J1B- 5	A2J3B-54		A4E283	WHI	A3J2B-54 A3J14-A38	2.5 VRMS AUDIO 600 OHM 6 LO	2.5RMS-0.6K-6-LO	INPUT
J2M5	A2J1A-77	A2J3B-56		A4E277	WHI	A3J2B-56 A3J14-A39	8 VRMS AUDIO 8 OHM HI	8.0RMS-8-OHMS-HI	INPUT
J2N5	A2J1A-71	A2J3B-58		A4E271	WHI	A3J2B-58 A3J14-A40	8 VRMS AUDIO 8 OHM LO	8.0RMS-8-OHMS-LO	INPUT
J2L5	A2J1A-65	A2J3B-60		A4E265	WHI	A3J2B-60 A3J14-B31	2.5 VRMS AUDIO 600 OHM 1 HI	2.5RMS-0.6K-1-HI	INPUT
J2V2	A2J1B-32	A2J3B-43		A4E310	BLK	A3J2B-43 A3J14-B32	2.5 VRMS AUDIO 600 OHM 1 LO	2.5RMS-0.6K-1-LO	INPUT
J2U2	A2J1B-26	A2J3B-45		A4E304	BLK	A3J2B-45 A3J14-B33	2.5 VRMS AUDIO 600 OHM 2 HI	2.5RMS-0.6K-2-HI	INPUT
J2T2	A2J1B-20	A2J3B-47		A4E298	BLK	A3J2B-47 A3J14-B34	2.5 VRMS AUDIO 600 OHM 2 LO	2.5RMS-0.6K-2-LO	INPUT
J2S2	A2J1B-14	A2J3B-49		A4E292	BLK	A3J2B-49 A3J14-B35	2.5 VRMS AUDIO 600 OHM 3 HI	2.5RMS-0.6K-3-HI	INPUT

ZIF Connector to Test Jack CCA to Motherboard Cross-Reference
Table 2 (Sheet 3)

Honeywell

**GROUND
EQUIPMENT
MANUAL**
PN 7511400

FRONT ZIF	ZIF TO M	ZIFE	TSTJ E	COLOR	MOTHERBOARD	DESCRIPTION	SHORT DESCRIPTION	I O
J2R2	A2J1B- 8	A2J3B-51	A4E286	GRN	A3J2B-51 A3J14-B36	2.5 VRMS AUDIO 600 OHM 3 LO	2.5RMS-0.6K-3-LO	INPUT
J2P2	A2J1B- 2	A2J3B-53	A4E280	BLK	A3J2B-53 A3J14-B37	2.5 VRMS AUDIO 600 OHM 4 HI	2.5RMS-0.6K-4-HI	INPUT
J2N2	A2J1A-74	A2J3B-55	A4E274	BLK	A3J2B-55 A3J14-B38	2.5 VRMS AUDIO 600 OHM 4 LO	2.5RMS-0.6K-4-LO	INPUT
J2M2	A2J1A-68	A2J3B-57	A4E268	BLK	A3J2B-57 A3J14-B39	2.5 VRMS AUDIO 600 OHM 5 HI	2.5RMS-0.6K-5-HI	INPUT
J2L2	A2J1A-62	A2J3B-59	A4E262	BLK	A3J2B-59 A3J14-B40	2.5 VRMS AUDIO 600 OHM 5 LO	2.5RMS-0.6K-5-LO	INPUT
J2P6	A2J1B- 6	A2J3A- 4	A4E284	BLK	A3J2A- 4 A3J14-A27	INTERPHONE HI	INTERPHONE-HI	I/O
J2N6	A2J1A-78	A2J3A- 6	A4E278	BLK	A3J2A- 6 A3J14-A26	INTERPHONE LO	INTERPHONE-LO	I/O
J2V3	A2J1B-33	A2J3B-63	A4E311	WHI	A3J2B-63 A3J14-B30	MIC SIM 1	MIC-SIM-1	OUTPUT
J2U3	A2J1B-27	A2J3B-65	A4E305	WHI	A3J2B-65 A3J14-B29	MIC SIM 2	MIC-SIM-2	OUTPUT
J2T3	A2J1B-21	A2J3B-67	A4E299	WHI	A3J2B-67 A3J14-B28	MIC SIM 3	MIC-SIM-3	OUTPUT
J2S3	A2J1B-15	A2J3B-69	A4E293	WHI	A3J2B-69 A3J14-B27	MIC SIM 4	MIC-SIM-4	OUTPUT
J2R3	A2J1B- 9	A2J3A- 1	A4E287	RED	A3J2A- 1 A3J14-B26	MIC TEST 1	MIC-TEST-1	INPUT
J2P3	A2J1B- 3	A2J3A- 3	A4E281	WHI	A3J2A- 3 A3J14-B25	MIC TEST 2	MIC-TEST-2	INPUT
J2N3	A2J1A-75	A2J3A- 5	A4E275	WHI	A3J2A- 5 A3J14-B24	MIC TEST 3	MIC-TEST-3	INPUT
J2M3	A2J1A-69	A2J3A- 7	A4E269	WHI	A3J2A- 7 A3J14-B23	MIC TEST 4	MIC-TEST-4	INPUT
J2L3	A2J1A-63	A2J3A- 9	A4E263	WHI	A3J2A- 9 A3J14-B22	MIC TEST 5	MIC-TEST-5	INPUT
J2V6	A2J1B-36	A2J3B-64	A4E314	BLK	A3J2B-64 A3J14-A32	WARNING 1	WARNING-1	OUTPUT
J2U6	A2J1B-30	A2J3B-66	A4E308	BLK	A3J2B-66 A3J14-A31	WARNING 2	WARNING-2	OUTPUT
J2T6	A2J1B-24	A2J3B-68	A4E302	BLK	A3J2B-68 A3J14-A30	WARNING 3	WARNING-3	OUTPUT
J2S6	A2J1B-18	A2J3B-70	A4E296	BLK	A3J2B-70 A3J14-A29	WARNING 4	WARNING-4	OUTPUT
J2R6	A2J1B-12	A2J3A- 2	A4E290	GRN	A3J2A- 2 A3J14-A28	WARNING 5	WARNING-5	OUTPUT
J2L1	A2J1A-61	A2J3B-39	A4E261	WHI	A3J2B-39 A3J14-A25	PHONE 1	PHONE-1	OUTPUT
J2L4	A2J1A-64	A2J3B-40	A4E264	BLK	A3J2B-40 A3J14-A24	PHONE 2	PHONE-2	OUTPUT
J2M6	A2J1A-72	A2J3A- 8	A4E272	BLK	A3J2A- 8 A3J14-B21	AUDIO GND	AUDIO-GND	I/O
J1R5	A1J1B-11	A1J3B-52	A4E 89	RED	A3J1B-52 A3J08-A25	SYNCHRO 1 X	SYNCHRO-1-X	INPUT
J1P5	A1J1B- 5	A1J3B-54	A4E 83	WHI	A3J1B-54 A3J08-A24	SYNCHRO 1 Y	SYNCHRO-1-Y	INPUT
J1N5	A1J1A-77	A1J3B-56	A4E 77	WHI	A3J1B-56 A3J08-A23	SYNCHRO 1 Z	SYNCHRO-1-Z	INPUT
J1D2	A1J1A-20	A1J3A-43	A4E 20	BLK	A3J1A-43 A3J08-A1	SYNCHRO 2 X	SYNCHRO-2-X	INPUT
J1E2	A1J1A-26	A1J3A-41	A4E 26	GRN	A3J1A-41 A3J08-A2	SYNCHRO 2 Y	SYNCHRO-2-Y	INPUT
J1F2	A1J1A-32	A1J3A-39	A4E 32	BLK	A3J1A-39 A3J08-A3	SYNCHRO 2 Z	SYNCHRO-2-Z	INPUT
J1G2	A1J1A-38	A1J3A-37	A4E 38	BLK	A3J1A-37 A3J08-A4	OBI/OBS SIN	OBI-OBS-SIN	INPUT
J1H2	A1J1A-44	A1J3A-35	A4E 44	BLK	A3J1A-35 A3J08-A5	OBI/OBS COS	OBI-OBS-COS	INPUT
J1J2	A1J1A-50	A1J3A-33	A4E 50	BLK	A3J1A-33 A3J08-A6	OBI/OBS RTN	OBI-OBS-RTN	INPUT
J1L4	A1J1A-64	A1J3B-40	A4E 64	BLK	A3J1B-40 A3J08-B40	26 V 400 HZ HI	26V400HZ-HI	INPUT
J1Z1	A1J1B-55	A1J3B-41	A4E115	BLK	A3J1B-41 A3J08-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J1Z2	A1J1B-56	A1J3B-41	A4E115	BLK	A3J1B-41 A3J08-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J1Z3	A1J1B-57	A1J3B-41	A4E115	BLK	A3J1B-41 A3J08-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J1A1	A1J1B-61	A1J3B-41	A4E121	BLK	A3J1B-41 A3J08-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J1A2	A1J1B-62	A1J3B-41	A4E121	BLK	A3J1B-41 A3J08-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J1A3	A1J1B-63	A1J3B-41	A4E121	BLK	A3J1B-41 A3J08-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J1B1	A1J1B-67	A1E3				26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J1B2	A1J1B-68	A1E3				26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J1B3	A1J1B-69	A1E3				26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J1C1	A1J1B-73	A1E3				26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J1C2	A1J1B-74	A1E3				26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J1C3	A1J1B-75	A1E3				26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT

ZIF Connector to Test Jack CCA to Motherboard Cross-Reference
Table 2 (Sheet 4)

FRONT	ZIF	ZIF TO M	ZIFE	TSTJ	E	COLOR	MOTHERBOARD	DESCRIPTION	SHORT DESCRIPTION	I O
J2Z1	A2J1B-55	A2J3B-41	A2E1	A4E315	BLK	A3J2B-41	A3J0B-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J2Z2	A2J1B-56	A2J3B-41	A2E1	A4E315	BLK	A3J2B-41	A3J0B-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J2Z3	A2J1B-57	A2J3B-41	A2E1	A4E315	BLK	A3J2B-41	A3J0B-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J2A1	A2J1B-61	A2J3B-41	A2E1	A4E321	BLK	A3J2B-41	A3J0B-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J2A2	A2J1B-62	A2J3B-41	A2E1	A4E321	BLK	A3J2B-41	A3J0B-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J2A3	A2J1B-63	A2J3B-41	A2E1	A4E321	BLK	A3J2B-41	A3J0B-A40	26 V 400 HZ RTN	26V400HZ-RTN	OUTPUT
J2B1	A2J1B-67		A2E3					26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J2B2	A2J1B-68		A2E3					26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J2B3	A2J1B-69		A2E3					26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J2C1	A2J1B-73		A2E3					26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J2C2	A2J1B-74		A2E3					26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J2C3	A2J1B-75		A2E3					26 V 400 HZ POWER	26V400HZ-POWER	OUTPUT
J1C4	A1J1A-16	A1J3A-26		A4E 16	BLK	A3J1A-26	A3J0B-A9	COS MODULATION	COS-MODULATION	INPUT
J1D4	A1J1A-22	A1J3A-24		A4E 22	BLK	A3J1A-24	A3J0B-A10	SIN MODULATION	SIN-MODULATION	INPUT
J1E4	A1J1A-28	A1J3A-22		A4E 28	GRN	A3J1A-22	A3J0B-A11	COMPOSITE BEARING	COMPOSITE-BEAR	OUTPUT
J1A4	A1J1A- 4	A1J3A-30		A4E 4	BLK	A3J1A-30	A3J0B-A7	SYNCHRO COMPASS X	SYNCHRO-COMP-X	OUTPUT
J1B4	A1J1A-10	A1J3A-28		A4E 10	BLK	A3J1A-28	A3J0B-A8	SYNCHRO COMPASS Y	SYNCHRO-COMP-Y	OUTPUT
J1R3	A1J1B- 9	A1J3A- 1		A4E 87	RED	A3J1A- 1	A3J0B-A16	OBS A	OBS-A	OUTPUT
J1S3	A1J1B-15	A1J3B-69		A4E 93	WHI	A3J1B-69	A3J0B-A17	OBS B	OBS-B	OUTPUT
J1L3	A1J1A-63	A1J3A- 9		A4E 63	WHI	A3J1A- 9	A3J0B-A12	SYNCHRO REF	SYNCHRO-REF	OUTPUT
J1F4	A1J1A-34	A1J3A-20		A4E 34	BLK	A3J1A-20	A3J0B-B11	0-30 V ANALOG 1	0-30V-ANALOG-1	INPUT
J1G4	A1J1A-40	A1J3A-18		A4E 40	BLK	A3J1A-18	A3J0B-B12	0-30 V ANALOG 2	0-30V-ANALOG-2	INPUT
J1H4	A1J1A-46	A1J3A-16		A4E 46	BLK	A3J1A-16	A3J0B-B13	0-30 V ANALOG 3	0-30V-ANALOG-3	INPUT
J1J4	A1J1A-52	A1J3A-14		A4E 52	BLK	A3J1A-14	A3J0B-B14	0-30 V ANALOG 4	0-30V-ANALOG-4	INPUT
J1K4	A1J1A-58	A1J3A-12		A4E 58	BLU	A3J1A-12	A3J0B-B15	0-30 V ANALOG 5	0-30V-ANALOG-5	INPUT
J1C1	A1J1A-13	A1J3A-25		A4E 13	WHI	A3J1A-25	A3J0B-B2	0-30 V ANALOG 6	0-30V-ANALOG-6	INPUT
J1D1	A1J1A-19	A1J3A-23		A4E 19	WHI	A3J1A-23	A3J0B-B3	0-30 V ANALOG 7	0-30V-ANALOG-7	INPUT
J1E1	A1J1A-25	A1J3A-21		A4E 25	RED	A3J1A-21	A3J0B-B4	0-30 V ANALOG 8	0-30V-ANALOG-8	INPUT
J1F1	A1J1A-31	A1J3A-19		A4E 31	WHI	A3J1A-19	A3J0B-B5	0-30 V ANALOG 9	0-30V-ANALOG-9	INPUT
J1G1	A1J1A-37	A1J3A-17		A4E 37	WHI	A3J1A-17	A3J0B-B6	0-30 V ANALOG 10	0-30V-ANALOG-10	INPUT
J1Z4	A1J1B-58	A1J3B-21	A1E2	A4E127	BLK	A3J1B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J1Z5	A1J1B-59	A1J3B-21	A1E2	A4E127	BLK	A3J1B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J1Z6	A1J1B-60	A1J3B-21	A1E2	A4E127	BLK	A3J1B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J1A4	A1J1B-64	A1J3B-21	A1E2	A4E133	BLK	A3J1B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J1A5	A1J1B-65	A1J3B-21	A1E2	A4E133	BLK	A3J1B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J1A6	A1J1B-66	A1J3B-21	A1E2	A4E133	BLK	A3J1B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J1B4	A1J1B-70		A1E4					28 V DC POWER	28-V-DC-POWER	OUTPUT
J1B5	A1J1B-71		A1E4					28 V DC POWER	28-V-DC-POWER	OUTPUT
J1B6	A1J1B-72		A1E4					28 V DC POWER	28-V-DC-POWER	OUTPUT
J1C4	A1J1B-76		A1E4					28 V DC POWER	28-V-DC-POWER	OUTPUT
J1C5	A1J1B-77		A1E4					28 V DC POWER	28-V-DC-POWER	OUTPUT
J1C6	A1J1B-78		A1E4					28 V DC POWER	28-V-DC-POWER	OUTPUT
J2Z4	A2J1B-58	A2J3B-21	A2E2	A4E327	BLK	A3J2B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J2Z5	A2J1B-59	A2J3B-21	A2E2	A4E327	BLK	A3J2B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J2Z6	A2J1B-60	A2J3B-21	A2E2	A4E327	BLK	A3J2B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J2A4	A2J1B-64	A2J3B-21	A2E2	A4E333	BLK	A3J2B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J2A5	A2J1B-65	A2J3B-21	A2E2	A4E333	BLK	A3J2B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J2A6	A2J1B-66	A2J3B-21	A2E2	A4E333	BLK	A3J2B-21	A3J0B-B7	28 V DC RTN / 0-30 V REF	0-30V-REF	OUTPUT
J2B4	A2J1B-70		A2E4					28 V DC POWER	28-V-DC-POWER	OUTPUT
J2B5	A2J1B-71		A2E4					28 V DC POWER	28-V-DC-POWER	OUTPUT
J2B6	A2J1B-72		A2E4					28 V DC POWER	28-V-DC-POWER	OUTPUT

ZIF Connector to Test Jack CCA to Motherboard Cross-Reference
Table 2 (Sheet 5)

Honeywell

GROUND
EQUIPMENT
MANUAL
PN 7511400

FRONT ZIF	ZIF TO M	ZIFE	TSTJ E	COLOR	MOTHERBOARD	DESCRIPTION	SHORT DESCRIPTION	I O
J2C4	A2J1B-76		A2E4			28 V DC POWER	28-V-DC-POWER	OUTPUT
J2C5	A2J1B-77		A2E4			28 V DC POWER	28-V-DC-POWER	OUTPUT
J2C6	A2J1B-78		A2E4			28 V DC POWER	28-V-DC-POWER	OUTPUT
J1H1	A1J1A-43	A1J3A-15		A4E 43	WHI A3J1A-15	A3J0B-B8 +/- 7.5 V ANALOG 1	+/-7.5V-ANALOG-1	INPUT
J1J1	A1J1A-49	A1J3A-13		A4E 49	WHI A3J1A-13	A3J0B-B9 +/- 7.5 V ANALOG 2	+/-7.5V-ANALOG-2	INPUT
J1K1	A1J1A-55	A1J3A-11		A4E 55	YEL A3J1A-11	A3J0B-B10 +/- 7.5 V REF 1,2	+/-7.5V-REF-1,2	INPUT
J1M3	A1J1A-69	A1J3A- 7		A4E 69	WHI A3J1A- 7	A3J0B-A13 +/- 15 V ANALOG 1	+/-15V-ANALOG-1	INPUT
J1N3	A1J1A-75	A1J3A- 5		A4E 75	WHI A3J1A- 5	A3J0B-A14 +/- 15 V ANALOG 2	+/-15V-ANALOG-2	INPUT
J1P3	A1J1B- 3	A1J3A- 3		A4E 81	WHI A3J1A- 3	A3J0B-A15 +/- 15 V REF 1,2	+/-15V-REF-1,2	INPUT
J1L6	A1J1A-66	A1J3A-10		A4E 66	BLK A3J1A-10	A3J0B-B17 +/- 15 V ANALOG 3	+/-15V-ANALOG-3	INPUT
J1M6	A1J1A-72	A1J3A- 8		A4E 72	BLK A3J1A- 8	A3J0B-B18 +/- 15 V ANALOG 4	+/-15V-ANALOG-4	INPUT
J1N6	A1J1A-78	A1J3A- 6		A4E 78	BLK A3J1A- 6	A3J0B-B19 +/- 15 V REF 3,4	+/-15V-REF-3,4	INPUT
J1T3	A1J1B-21	A1J3B-67		A4E 99	WHI A3J1B-67	A3J0B-A18 +/- 20 V ANALOG 1	+/-20V-ANALOG-1	INPUT
J1U3	A1J1B-27	A1J3B-65		A4E105	WHI A3J1B-65	A3J0B-A19 +/- 20 V ANALOG 2	+/-20V-ANALOG-2	INPUT
J1V3	A1J1B-33	A1J3B-63		A4E111	WHI A3J1B-63	A3J0B-A20 +/- 20 V REF 1,2	+/-20V-REF-1,2	INPUT
J1R6	A1J1B-12	A1J3A- 2		A4E 90	GRN A3J1A- 2	A3J0B-B21 +/- 0.83 V ANALOG 1	+/-0.83V-ANALOG-1	INPUT
J1P6	A1J1B- 6	A1J3A- 4		A4E 84	BLK A3J1A- 4	A3J0B-B20 +/- 0.83 V ANALOG REF 1	+/-0.83V-REF-1	INPUT
J1T6	A1J1B-24	A1J3B-68		A4E102	BLK A3J1B-68	A3J0B-B23 +/- 0.83 V ANALOG 2	+/-0.83V-ANALOG-2	INPUT
J1S6	A1J1B-18	A1J3B-70		A4E 96	BLK A3J1B-70	A3J0B-B22 +/- 0.83 V ANALOG REF 2	+/-0.83V-REF-2	INPUT
J1V6	A1J1B-36	A1J3B-64		A4E114	BLK A3J1B-64	A3J0B-B25 +/- 0.83 V ANALOG 3	+/-0.83V-ANALOG-3	INPUT
J1U6	A1J1B-30	A1J3B-66		A4E108	BLK A3J1B-66	A3J0B-B24 +/- 0.83 V ANALOG REF 3	+/-0.83V-REF-3	INPUT
J1M5	A1J1A-71	A1J3B-58		A4E 71	WHI A3J1B-58	A3J0B-A22 +/- 0.83 V ANALOG 4	+/-0.83V-ANALOG-4	INPUT
J1L5	A1J1A-65	A1J3B-60		A4E 65	WHI A3J1B-60	A3J0B-A21 +/- 0.83 V ANALOG REF 4	+/-0.83V-REF-4	INPUT
J2A3	A2J1A- 3	A2J3A-69		A4E203	WHI A3J2A-69	A3J0A-B12 SPARE 1	SPARE-1	
J2B3	A2J1A- 9	A2J3A-67		A4E209	WHI A3J2A-67	A3J0A-B13 SPARE 2	SPARE-2	
J2C3	A2J1A-15	A2J3A-65		A4E215	WHI A3J2A-65	A3J0A-B14 SPARE 3	SPARE-3	
J2A6	A2J1A- 6	A2J3A-70		A4E206	BLK A3J2A-70	A3J0A-A12 SPARE 4	SPARE-4	
J2B6	A2J1A-12	A2J3A-68		A4E212	BLK A3J2A-68	A3J0A-A13 SPARE 5	SPARE-5	
J2C6	A2J1A-18	A2J3A-66		A4E218	BLK A3J2A-66	A3J0A-A14 SPARE 6	SPARE-6	
J1K6	A1J1A-60	A1J3A-52		A4E 60	BLU A3J1A-52	A3J0A-B27 SPARE 7	SPARE-7	
J1A1	A1J1A- 1	A1J3A-29		A4E 1	WHI A3J1A-29	A3J0A-A27 SPARE 8	SPARE-8	
J1K2	A1J1A-56	A1J3A-31		A4E 56	BLU A3J1A-31	A3J0A-B28 SPARE 9	SPARE-9	
J1B1	A1J1A- 7	A1J3A-27		A4E 7	WHI A3J1A-27	A3J0A-A11 SPARE 10	SPARE-10	
		A1J3B-61		A4E116	BLK A3J1B-61	ANALOG GROUND	ANALOG-GND	
		A1J3B-61		A4E117	BLK A3J1B-61	ANALOG GROUND	ANALOG-GND	
		A2J3B-61		A4E316	BLK A3J2B-61	ANALOG GROUND	ANALOG-GND	
		A2J3B-61		A4E317	BLK A3J2B-61	ANALOG GROUND	ANALOG-GND	
J1Y1	A1J1B-49	A1J3B-22		A4E118	GRN A3J1B-22	-15 V DC	-15VDC	
J2Y1	A2J1B-49	A2J3B-22		A4E318	GRN A3J2B-22	-15 V DC	-15VDC	
J1X1	A1J1B-43	A1J3B-42		A4E119	YEL A3J1B-42	+15 V DC	+15VDC	
J2X1	A2J1B-43	A2J3B-42		A4E319	YEL A3J2B-42	+15 V DC	+15VDC	
J1W1	A1J1B-37	A1J3B-62		A4E120	RED A3J1B-62	+5 V DC	+5VDC	
J2W1	A2J1B-37	A2J3B-62		A4E320	RED A3J2B-62	+5 V DC	+5VDC	

ZIF Connector to Test Jack CCA to Motherboard Cross-Reference
Table 2 (Sheet 6)

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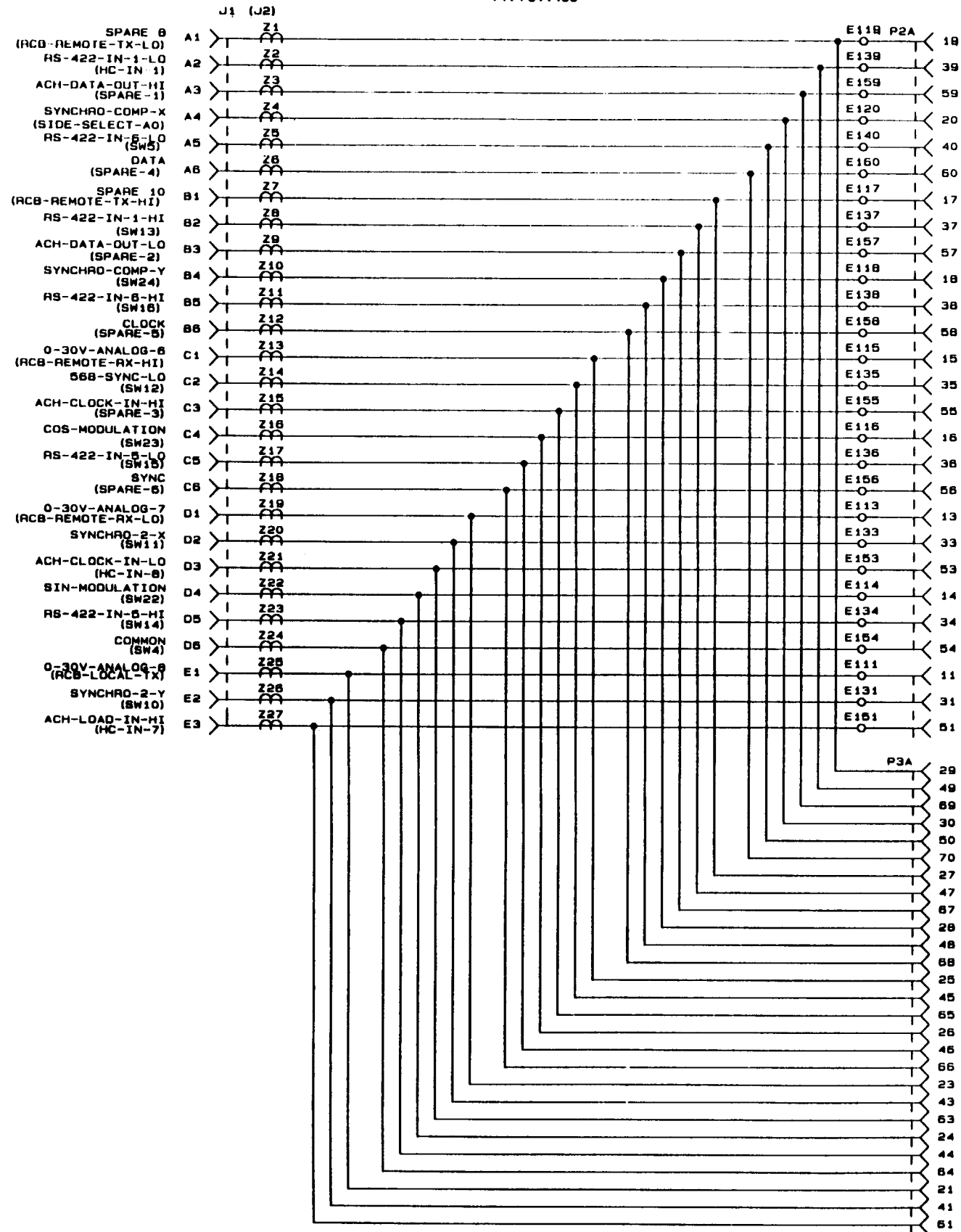
FRONT	ZIF	ZIF TO M	ZIFE	TSTJ E	COLOR	MOTHERBOARD	DESCRIPTION	SHORT DESCRIPTION	I O
J1Y6	A1J1B-54	A1J3B- 1		A4E138	RED	A3J1B- 1 A3J06-A1	SPARE BUS A HI	SPR-BUS-A-HI	I/O
J1X6	A1J1B-48	A1J3B- 2		A4E132	BLU	A3J1B- 2 A3J06-A2	SPARE BUS A LO	SPR-BUS-A-LO	I/O
J1W6	A1J1B-42	A1J3B- 3		A4E126	BLK	A3J1B- 3 A3J06-A3	SPARE BUS A GROUND	SPR-BUS-A-GROUND	I/O
J1W6	A1J1B-42	A1J3B- 4		A4E126	BLK	A3J1B- 4 A3J06-A3	SPARE BUS A GROUND	SPR-BUS-A-GROUND	I/O
J1Y5	A1J1B-53	A1J3B- 5		A4E137	RED	A3J1B- 5 A3J06-A4	SPARE BUS B HI	SPR-BUS-B-HI	I/O
J1X5	A1J1B-47	A1J3B- 6		A4E131	BLU	A3J1B- 6 A3J06-A5	SPARE BUS B LO	SPR-BUS-B-LO	I/O
J1W5	A1J1B-41	A1J3B- 7		A4E125	BLK	A3J1B- 7 A3J06-A6	SPARE BUS B GROUND	SPR-BUS-B-GROUND	I/O
J1W5	A1J1B-41	A1J3B- 8		A4E125	BLK	A3J1B- 8 A3J06-A6	SPARE BUS B GROUND	SPR-BUS-B-GROUND	I/O
J1Y4	A1J1B-52	A1J3B- 9		A4E136	RED	A3J1B- 9 A3J06-A7	SPARE BUS C HI	SPR-BUS-C-HI	I/O
J1X4	A1J1B-46	A1J3B-10		A4E130	BLU	A3J1B-10 A3J06-A8	SPARE BUS C LO	SPR-BUS-C-LO	I/O
J1W4	A1J1B-40	A1J3B-11		A4E124	BLK	A3J1B-11 A3J06-A9	SPARE BUS C GROUND	SPR-BUS-C-GROUND	I/O
J1W4	A1J1B-40	A1J3B-12		A4E124	BLK	A3J1B-12 A3J06-A9	SPARE BUS C GROUND	SPR-BUS-C-GROUND	I/O
J1Y3	A1J1B-51	A1J3B-13		A4E135	RED	A3J1B-13 A3J06-B40	SPARE BUS D HI	SPR-BUS-D-HI	I/O
J1X3	A1J1B-45	A1J3B-14		A4E129	BLU	A3J1B-14 A3J06-B39	SPARE BUS D LO	SPR-BUS-D-LO	I/O
J1W3	A1J1B-39	A1J3B-15		A4E123	BLK	A3J1B-15 A3J06-B38	SPARE BUS D GROUND	SPR-BUS-D-GROUND	I/O
J1W3	A1J1B-39	A1J3B-16		A4E123	BLK	A3J1B-16 A3J06-B38	SPARE BUS D GROUND	SPR-BUS-D-GROUND	I/O
J1Y2	A1J1B-50	A1J3B-17		A4E134	RED	A3J1B-17 A3J06-B37	SPARE BUS E HI	SPR-BUS-E-HI	I/O
J1X2	A1J1B-44	A1J3B-18		A4E128	BLU	A3J1B-18 A3J06-B36	SPARE BUS E LO	SPR-BUS-E-LO	I/O
J1W2	A1J1B-38	A1J3B-19		A4E122	BLK	A3J1B-19 A3J06-B35	SPARE BUS E GROUND	SPR-BUS-E-GROUND	I/O
J1W2	A1J1B-38	A1J3B-20		A4E122	BLK	A3J1B-20 A3J06-B35	SPARE BUS E GROUND	SPR-BUS-E-GROUND	I/O
J2Y6	A2J1B-54	A2J3B- 1		A4E338	RED	A3J2B- 1 A3J12-A1	RSB BUS A HI	RSB-BUS-A-HI	I/O
J2X6	A2J1B-48	A2J3B- 2		A4E332	BLU	A3J2B- 2 A3J12-A2	RSB BUS A LO	RSB-BUS-A-LO	I/O
J2W6	A2J1B-42	A2J3B- 3		A4E326	BLK	A3J2B- 3 A3J12-A3	RSB BUS A GROUND	RSB-BUS-A-GROUND	I/O
J2W6	A2J1B-42	A2J3B- 4		A4E326	BLK	A3J2B- 4 A3J12-A3	RSB BUS A GROUND	RSB-BUS-A-GROUND	I/O
J2Y5	A2J1B-53	A2J3B- 5		A4E337	RED	A3J2B- 5 A3J12-A4	RSB BUS B HI	RSB-BUS-B-HI	I/O
J2X5	A2J1B-47	A2J3B- 6		A4E331	BLU	A3J2B- 6 A3J12-A5	RSB BUS B LO	RSB-BUS-B-LO	I/O
J2W5	A2J1B-41	A2J3B- 7		A4E325	BLK	A3J2B- 7 A3J12-A6	RSB BUS B GROUND	RSB-BUS-B-GROUND	I/O
J2W5	A2J1B-41	A2J3B- 8		A4E325	BLK	A3J2B- 8 A3J12-A6	RSB BUS B GROUND	RSB-BUS-B-GROUND	I/O
J2Y4	A2J1B-52	A2J3B- 9		A4E336	RED	A3J2B- 9 A3J12-A7	RSB BUS C HI	RSB-BUS-C-HI	I/O
J2X4	A2J1B-46	A2J3B-10		A4E330	BLU	A3J2B-10 A3J12-A8	RSB BUS C LO	RSB-BUS-C-LO	I/O
J2W4	A2J1B-40	A2J3B-11		A4E324	BLK	A3J2B-11 A3J12-A9	RSB BUS C GROUND	RSB-BUS-C-GROUND	I/O
J2W4	A2J1B-40	A2J3B-12		A4E324	BLK	A3J2B-12 A3J12-A9	RSB BUS C GROUND	RSB-BUS-C-GROUND	I/O
J2Y3	A2J1B-51	A2J3B-13		A4E335	RED	A3J2B-13 A3J14-B5	LEFT AUDIO BUS HI	LT-AUD-BUS-HI	I/O
J2X3	A2J1B-45	A2J3B-14		A4E329	BLU	A3J2B-14 A3J14-B4	LEFT AUDIO BUS LO	LT-AUD-BUS-LO	I/O
J2W3	A2J1B-39	A2J3B-15		A4E323	BLK	A3J2B-15 A3J14-B6	LEFT AUDIO BUS GROUND	LT-AUD-BUS-GND	I/O
J2W3	A2J1B-39	A2J3B-16		A4E323	BLK	A3J2B-16 A3J14-B6	LEFT AUDIO BUS GROUND	LT-AUD-BUS-GND	I/O
J2Y2	A2J1B-50	A2J3B-17		A4E334	RED	A3J2B-17 A3J14-B2	RIGHT AUDIO BUS HI	RT-AUD-BUS-HI	I/O
J2X2	A2J1B-44	A2J3B-18		A4E328	BLU	A3J2B-18 A3J14-B1	RIGHT AUDIO BUS LO	RT-AUD-BUS-LO	I/O
J2W2	A2J1B-38	A2J3B-19		A4E322	BLK	A3J2B-19 A3J14-B3	RIGHT AUDIO BUS GROUND	RT-AUD-BUS-GND	I/O
J2W2	A2J1B-38	A2J3B-20		A4E322	BLK	A3J2B-20 A3J14-B3	RIGHT AUDIO BUS GROUND	RT-AUD-BUS-GND	I/O

ZIF Connector to Test Jack CCA to Motherboard Cross-Reference
Table 2 (Sheet 7)

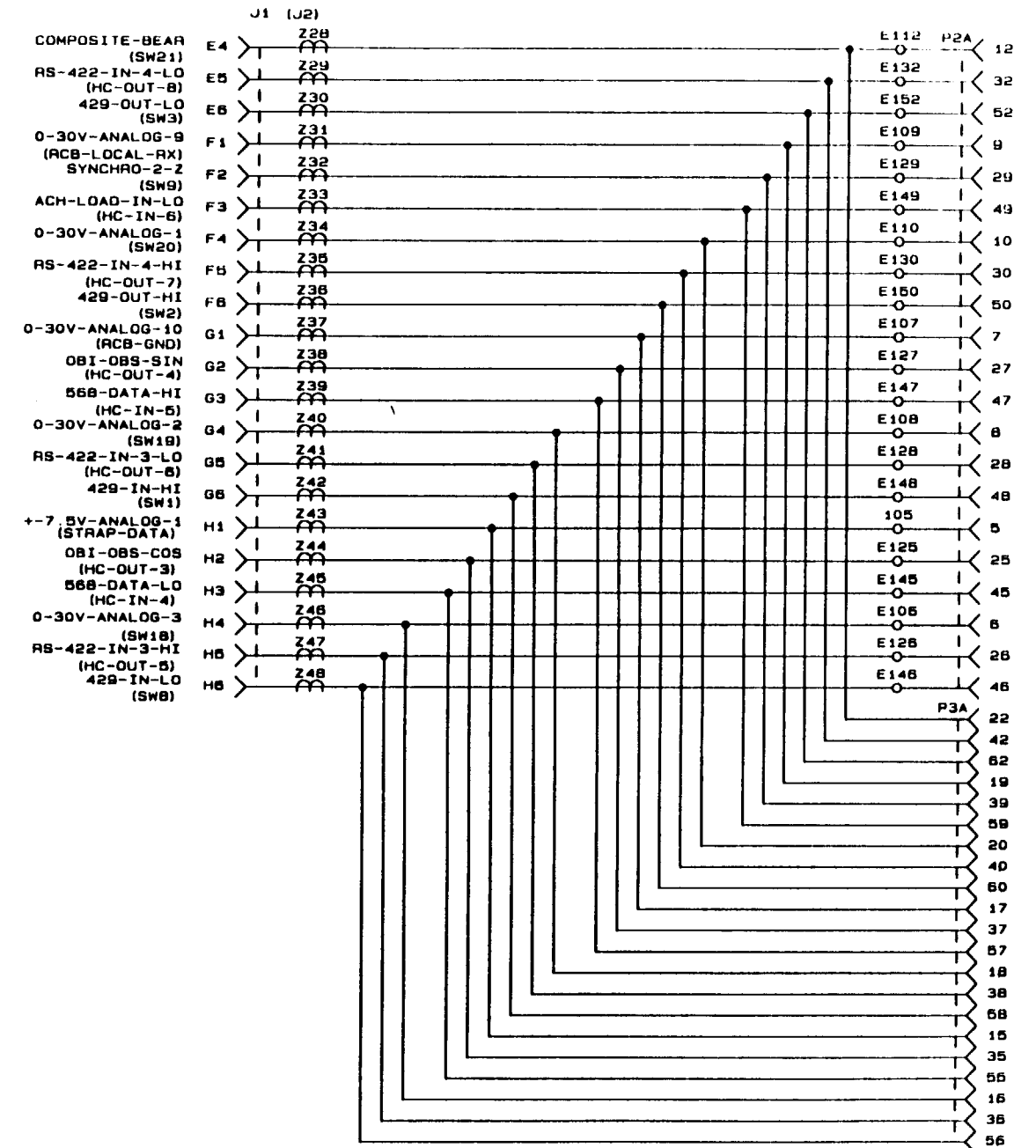
Revision Code (Arrow No.)	Revision Description	Effectivity
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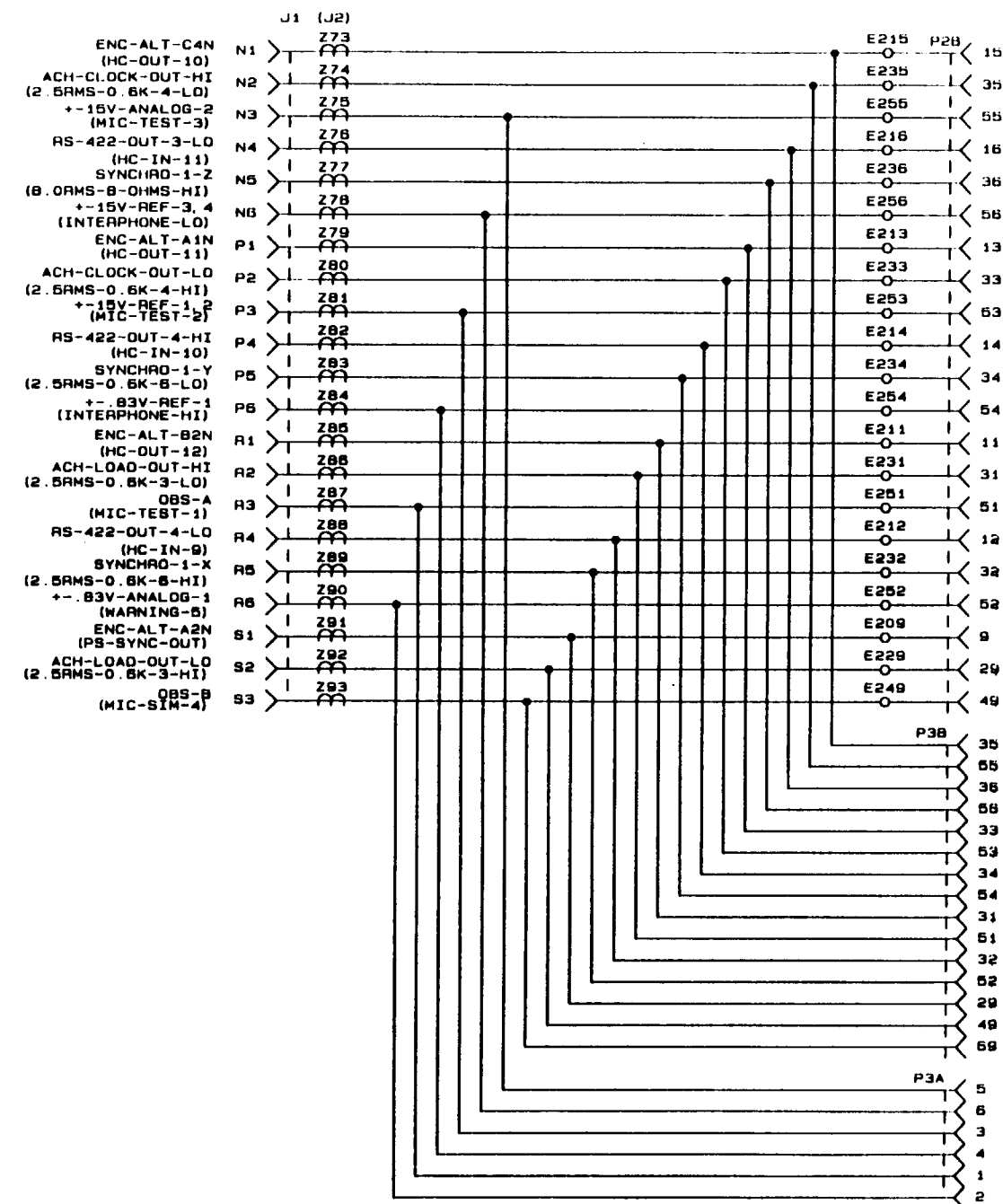
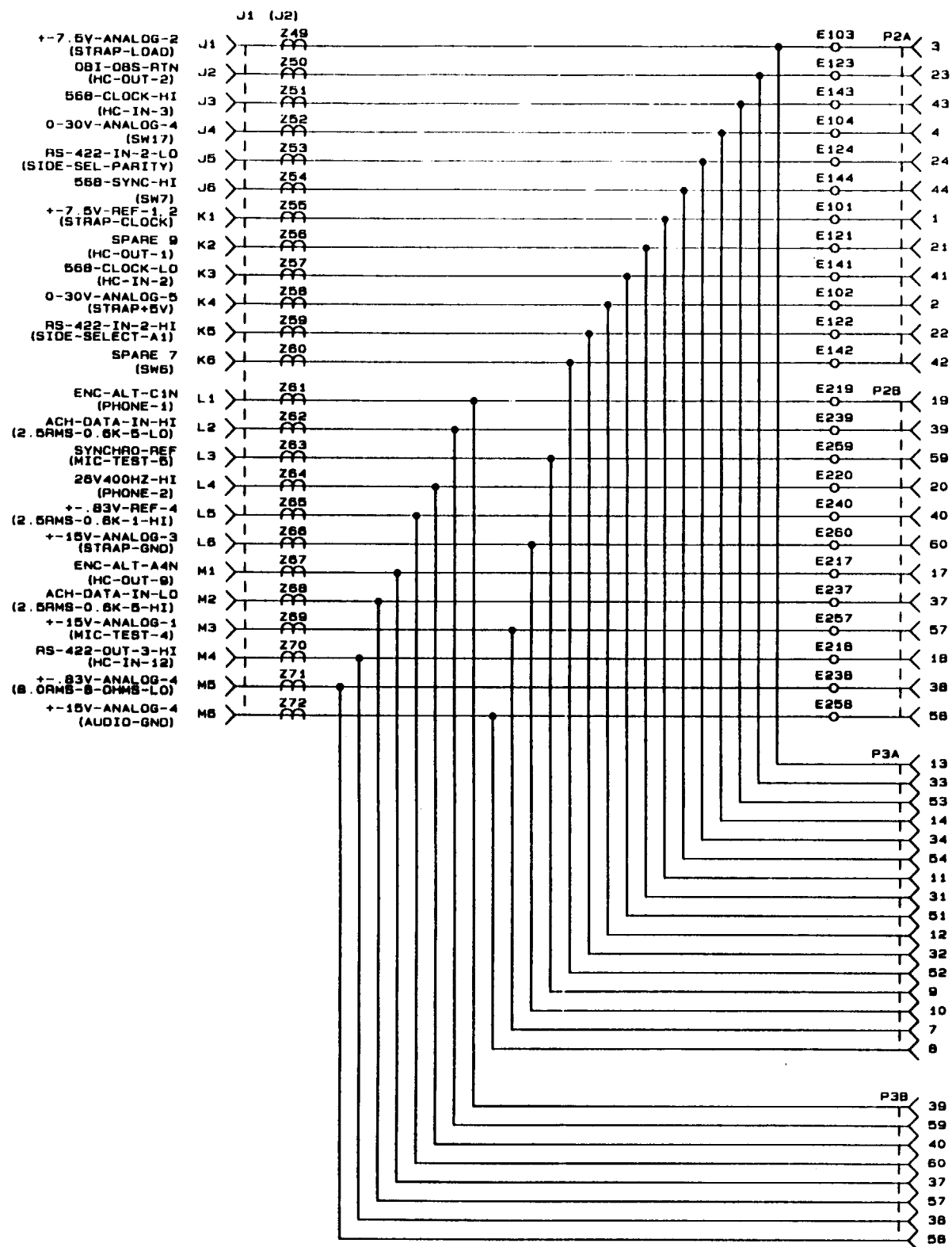
Revision Reference Sheet
for Figure 3

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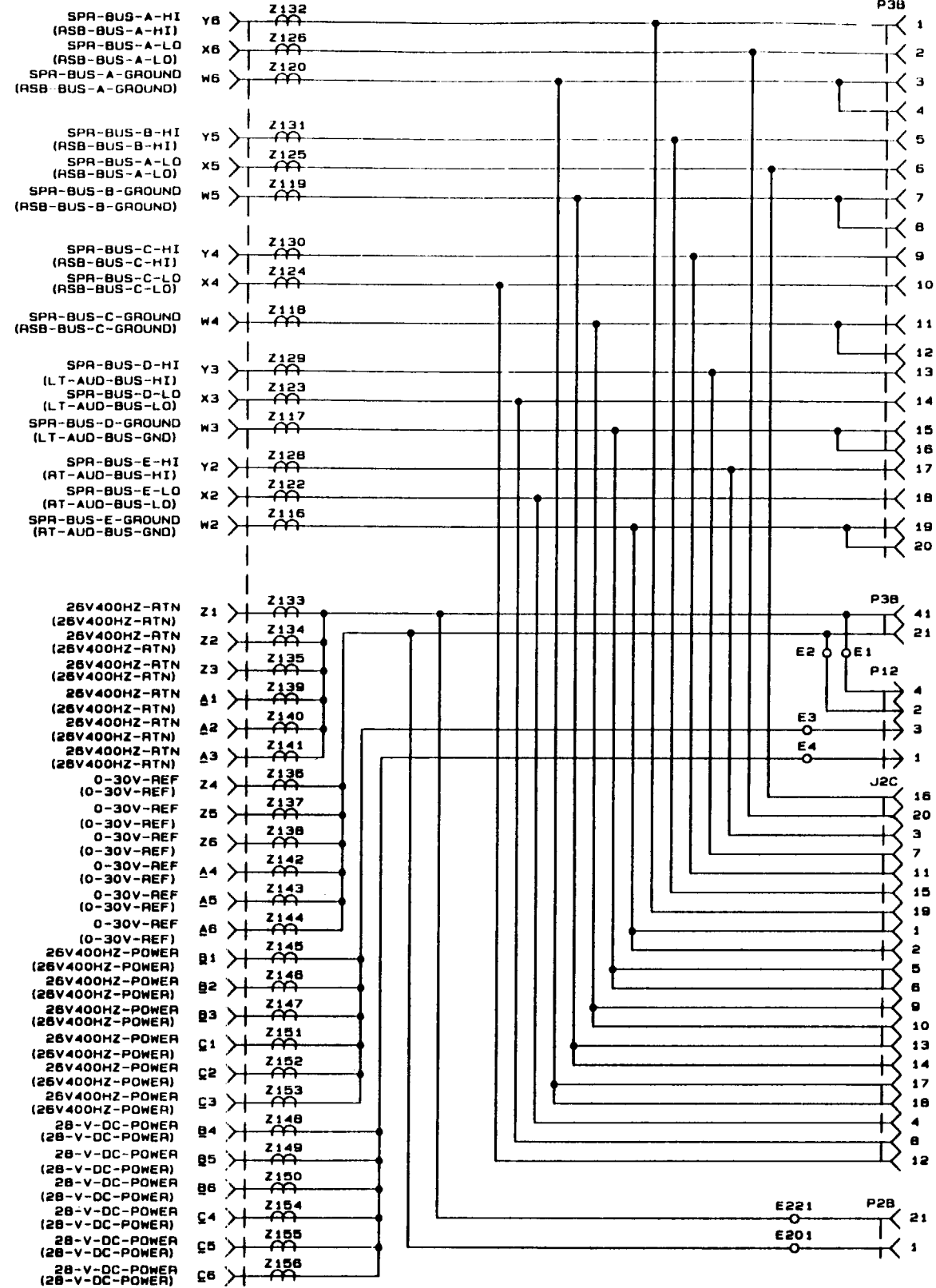
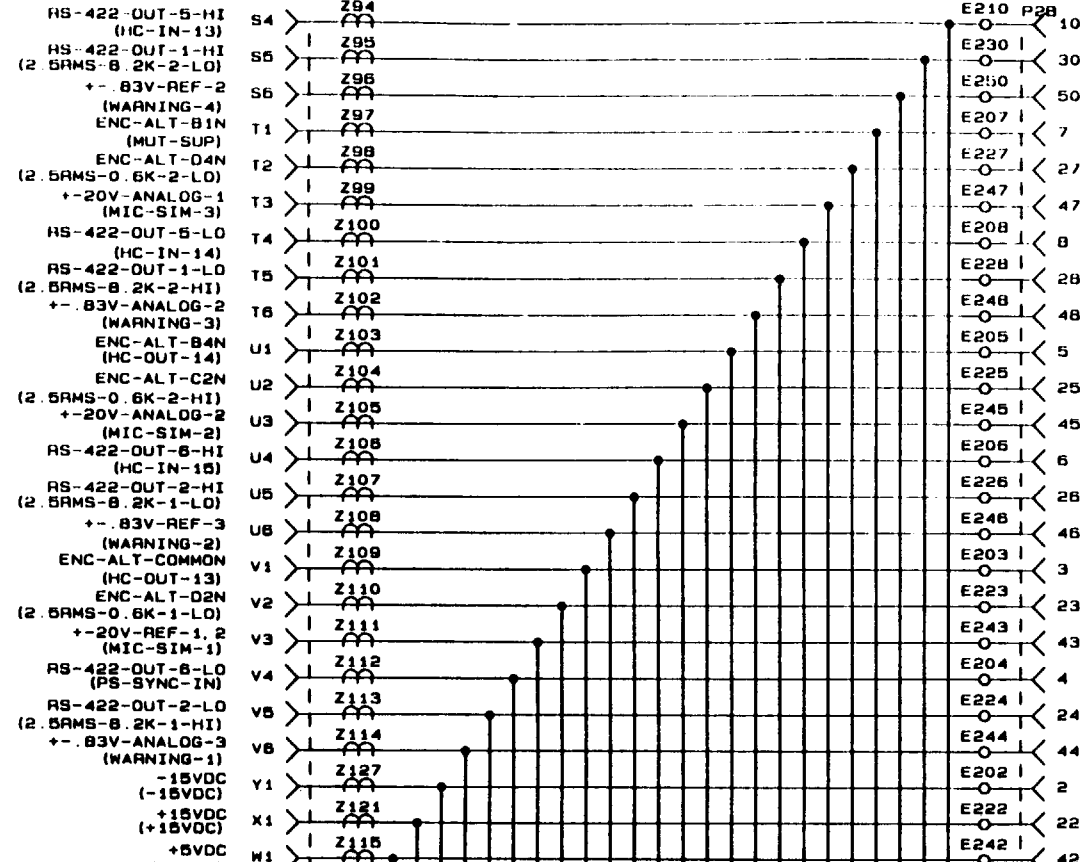
ZIF Connector CCA A1A2 Schematic
Figure 3 (Sheet 1 of 3)





ZIF Connector CCA A1A2 Schematic
Figure 3 (Sheet 2)

**GROUND
EQUIPMENT
MANUAL
PN 7511400**

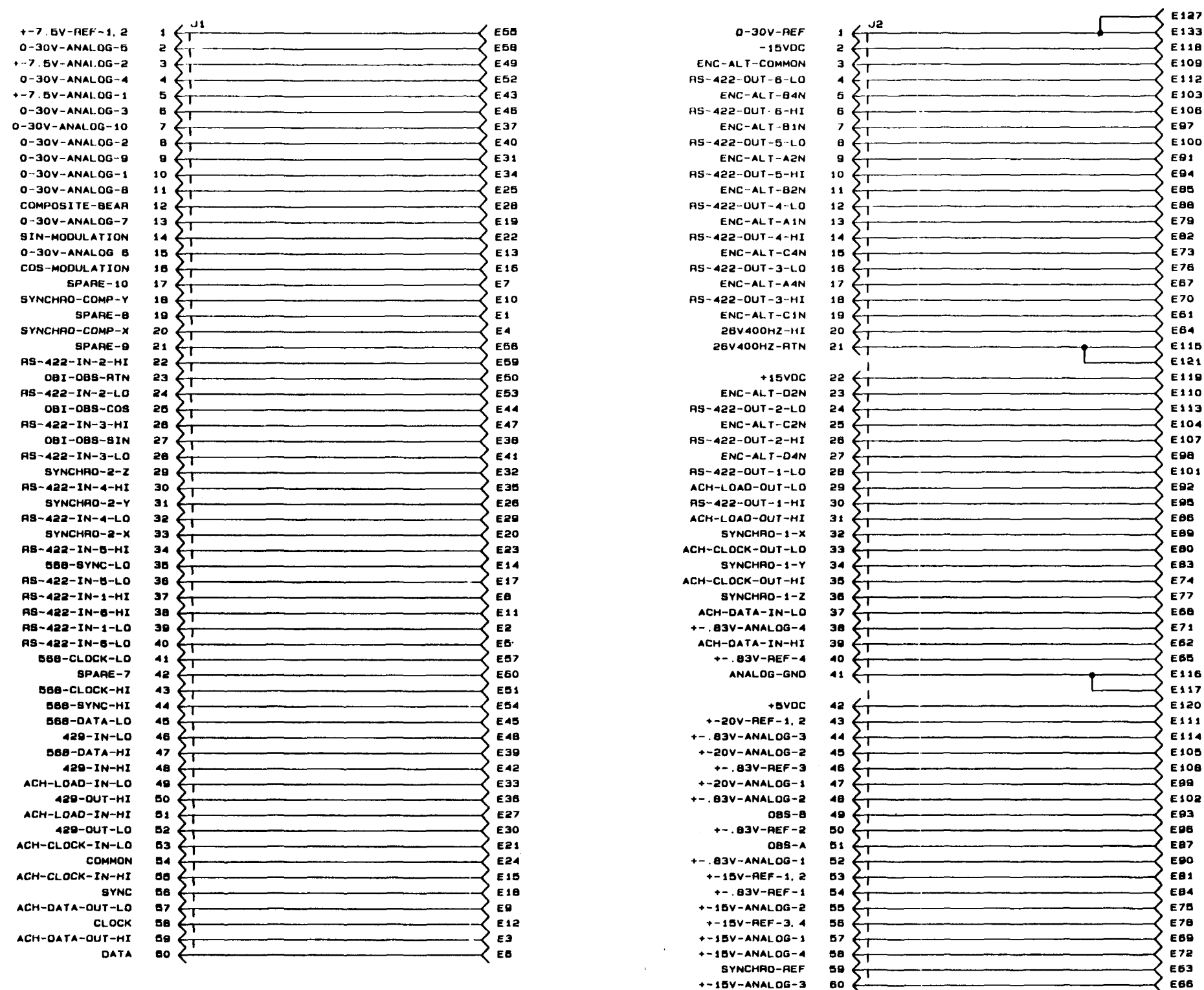


**ZIF Connector CCA A1A2 Schematic
Figure 3 (Sheet 3)**

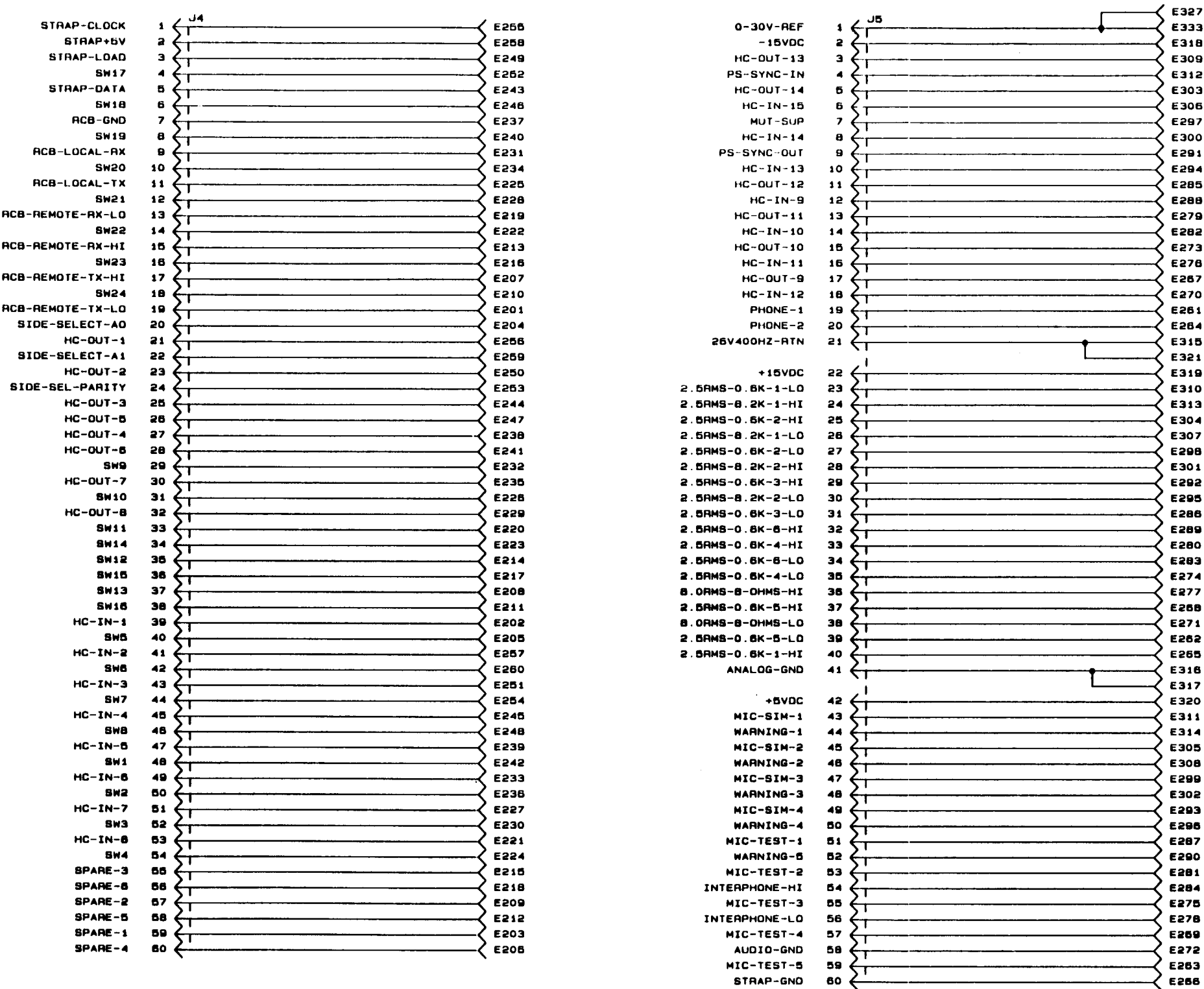
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Revision Reference Sheet
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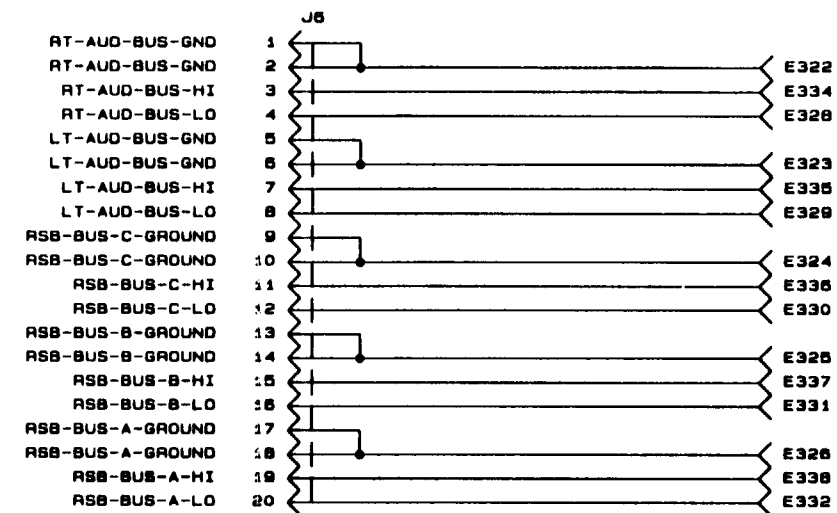
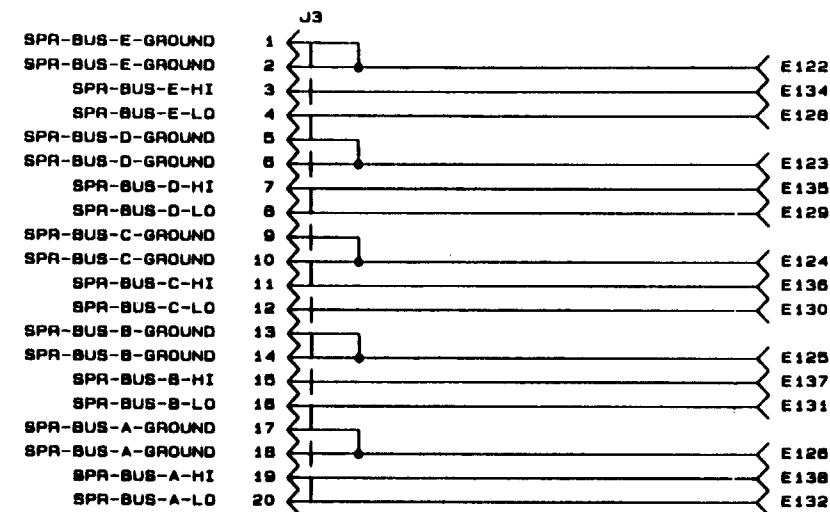
2-2
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Front Panel Test Jacks CCA A12A1 Schematic
Figure 4 (Sheet 1 of 3)



Front Panel Test Jacks CCA A12A1 Schematic
Figure 4 (Sheet 2)



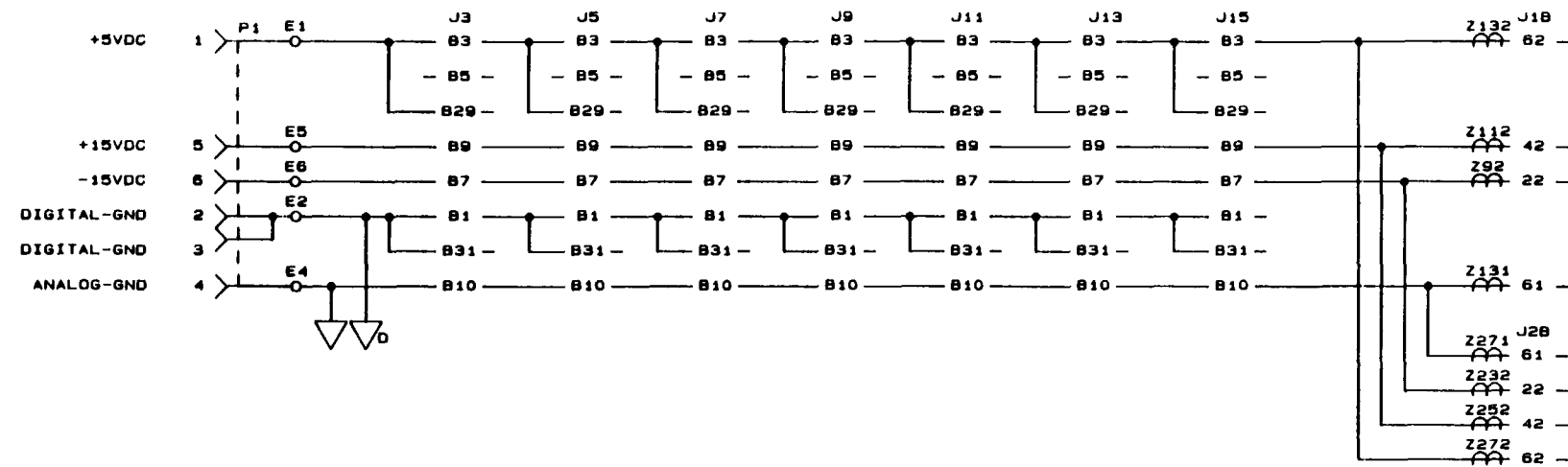
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Front Panel Test Jacks CCA A12A1 Schematic
Figure 4 (Sheet 3)

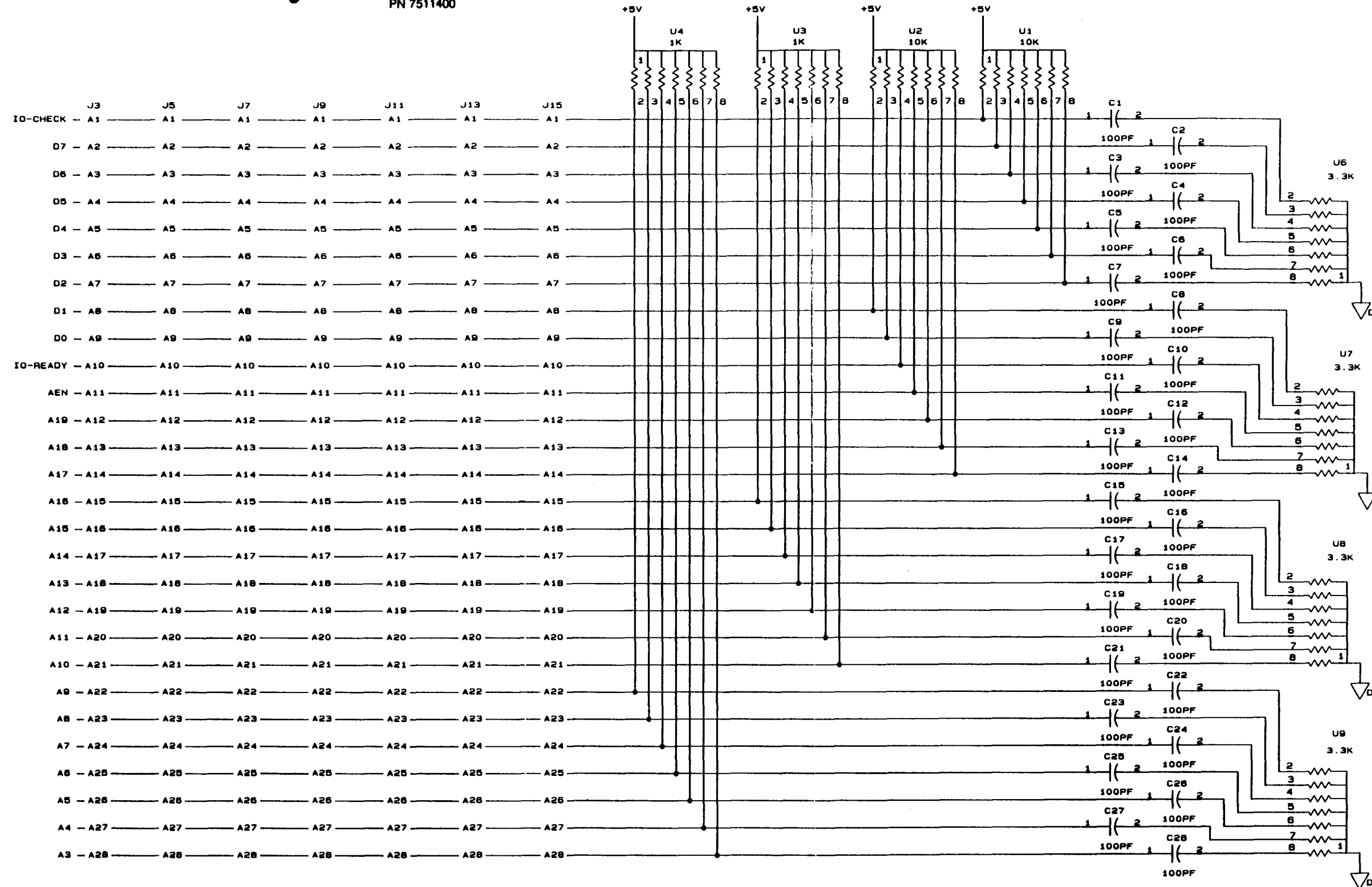
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Revision Reference Sheet
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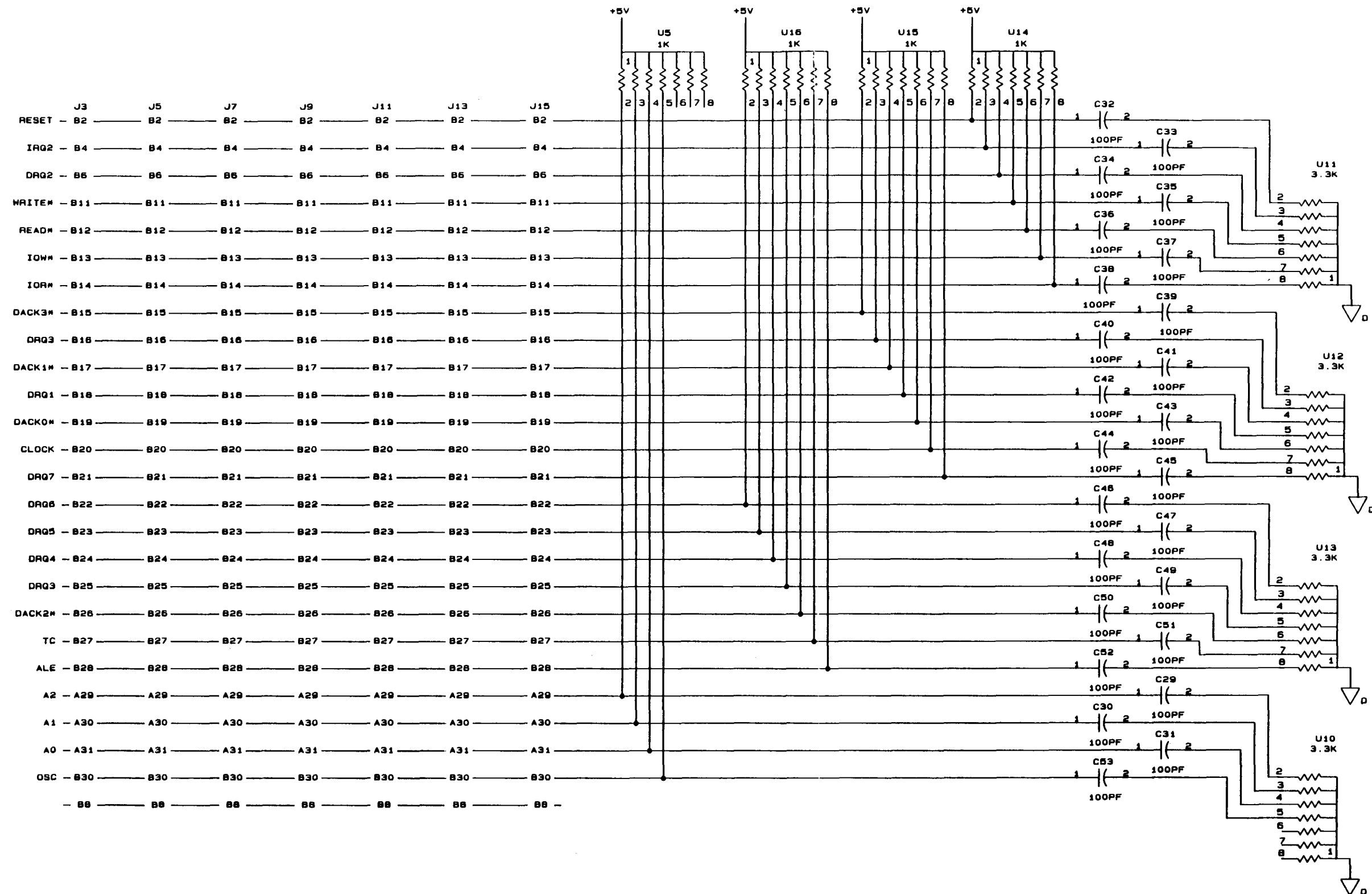
2-2
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Motherboard A3 Schematic
Figure 5 (Sheet 1 of 6)



Motherboard A3 Schematic
Figure 5 (Sheet 2)



Motherboard A3 Schematic
Figure 5 (Sheet 3)

E7511490-5C

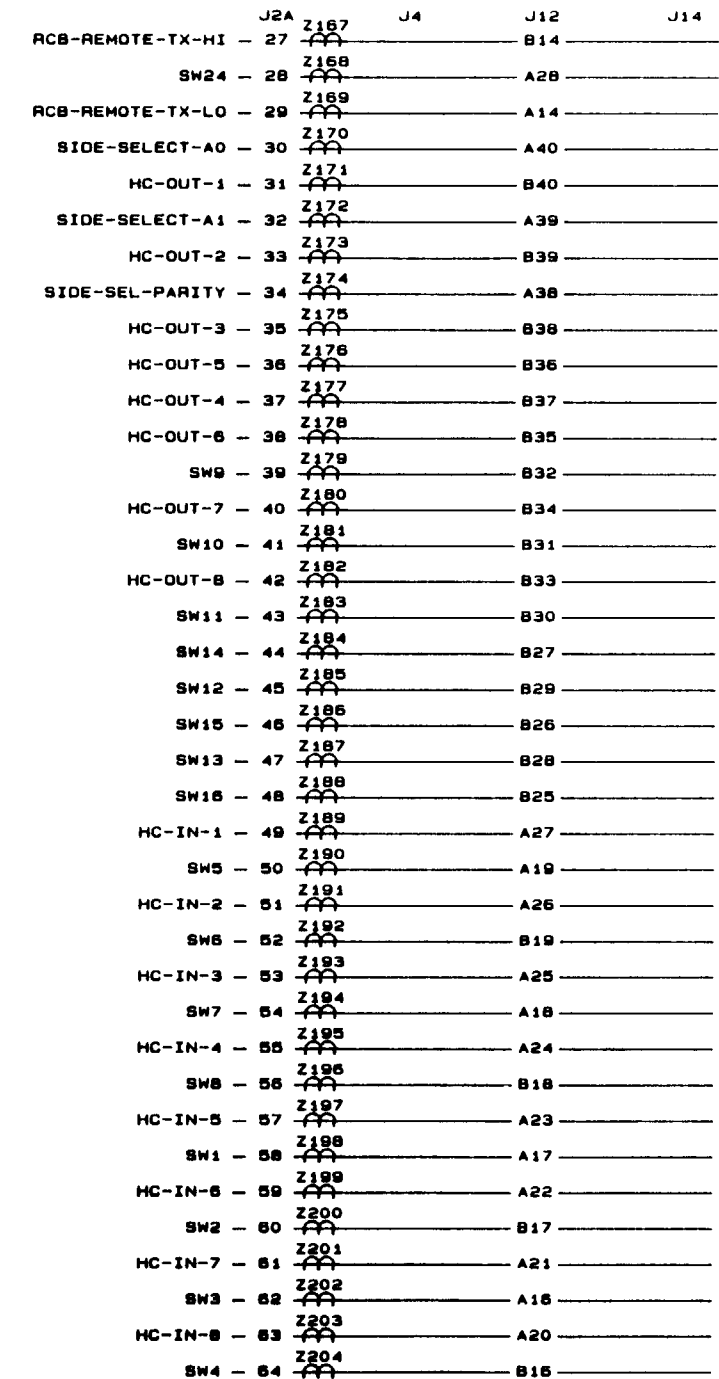
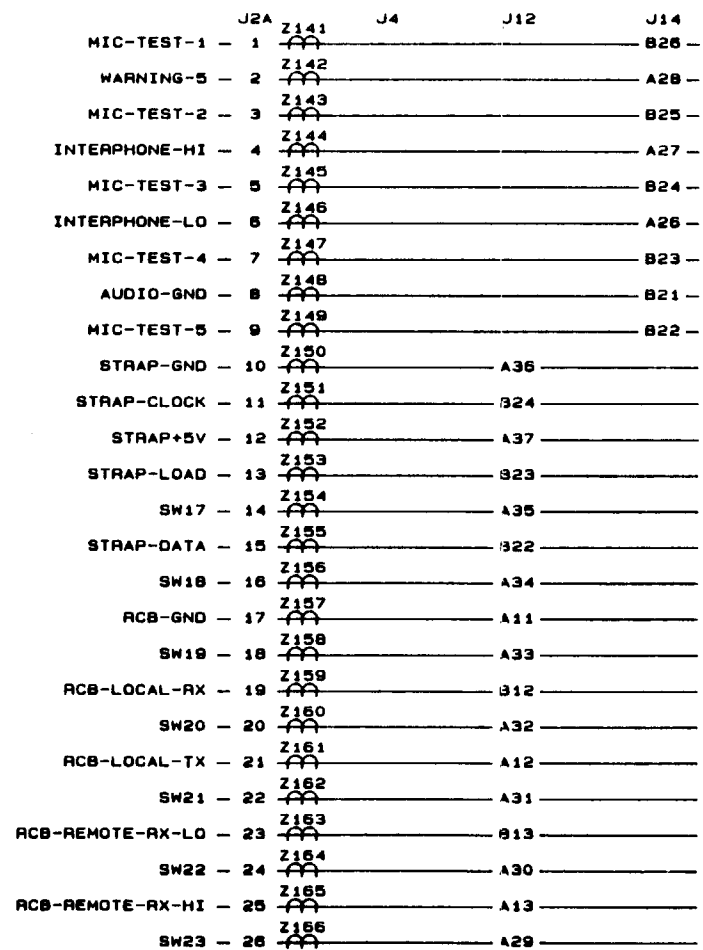
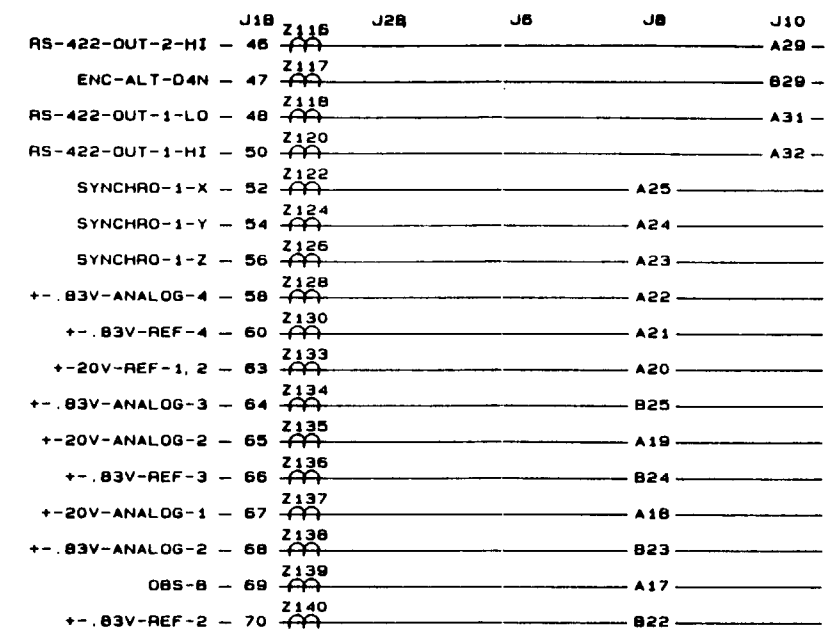
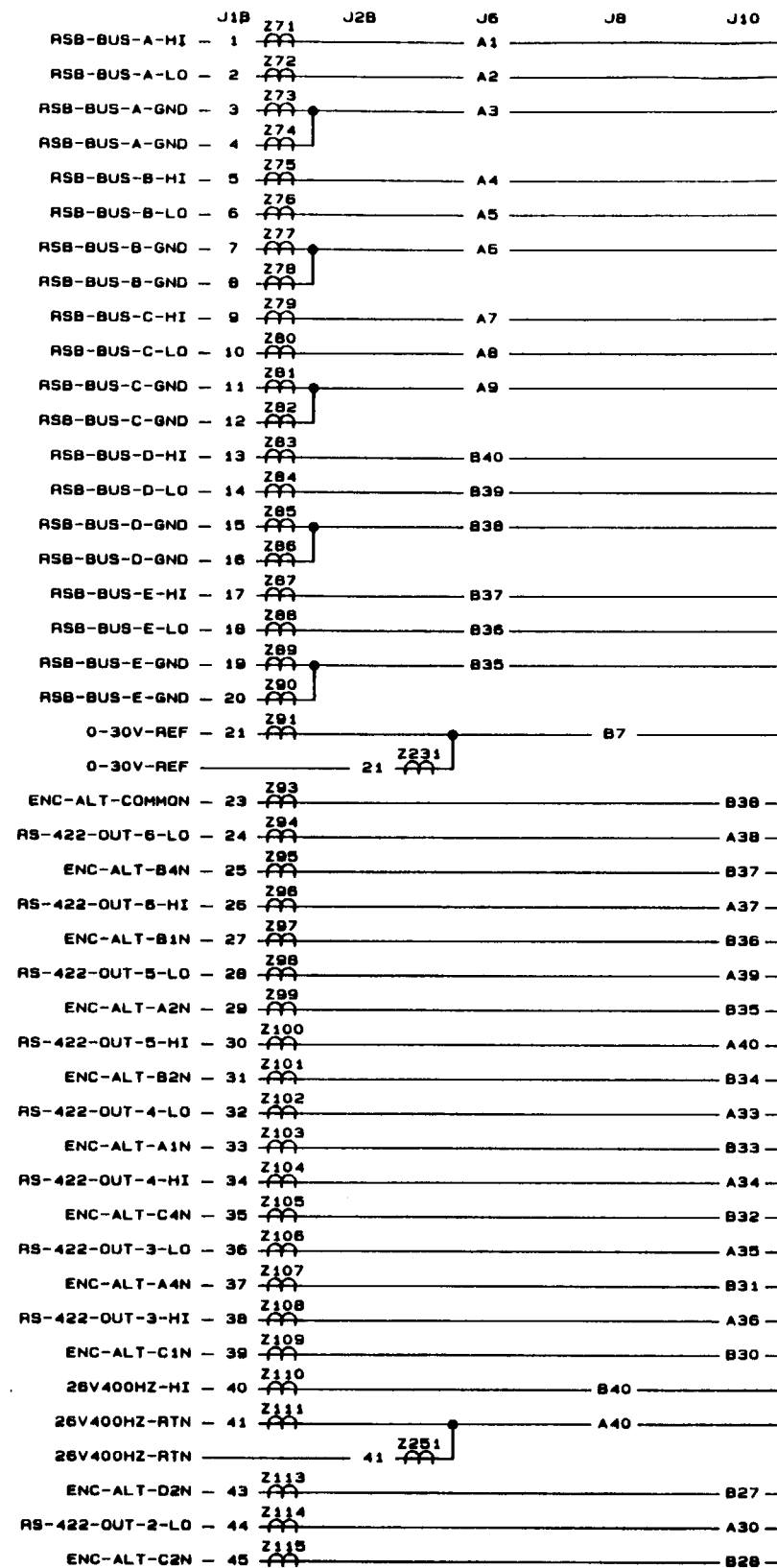
Honeywell

GROUND
EQUIPMENT
MANUAL
PN 7511400

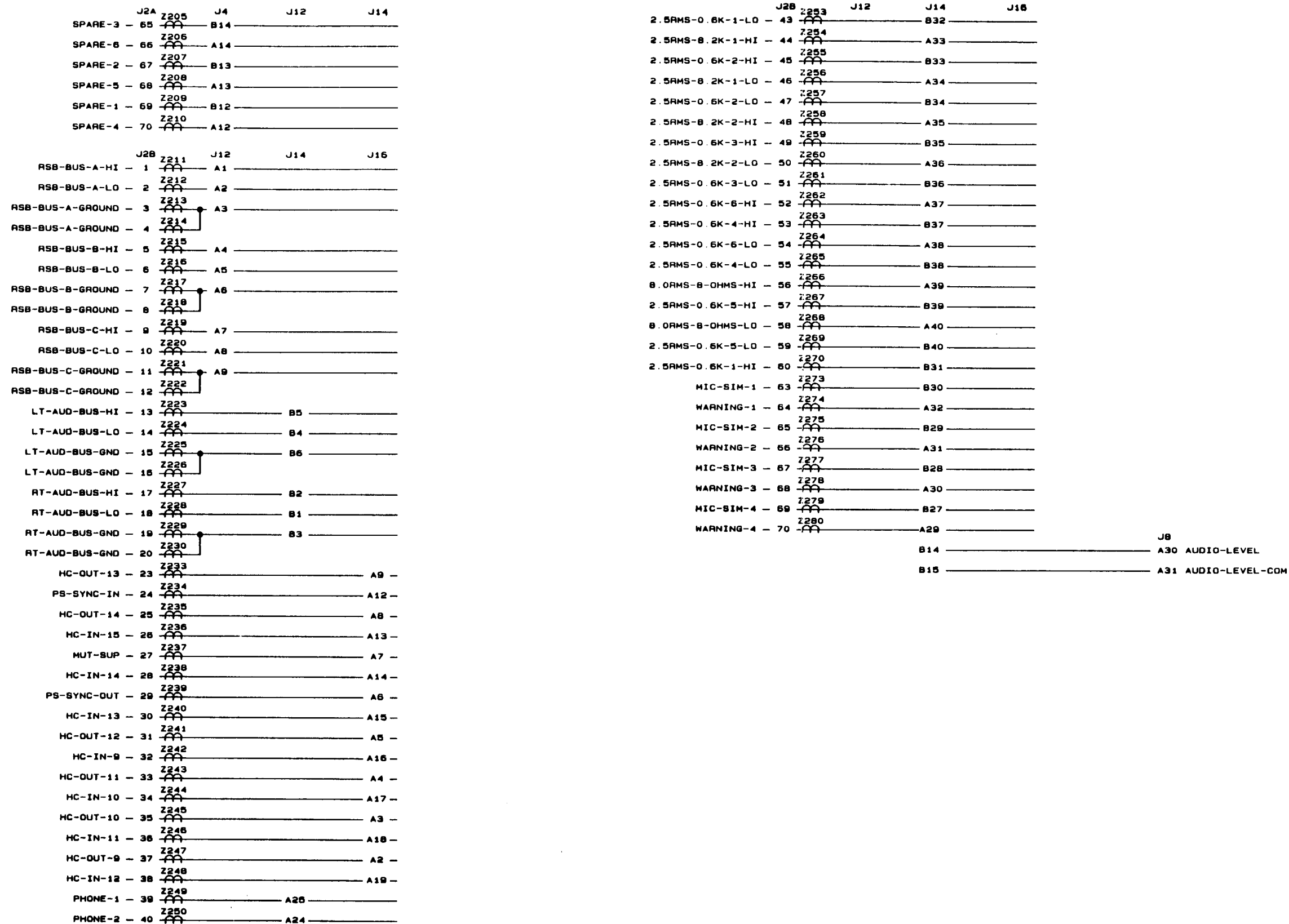
	J1A	J1B	J4	J8	J10
OBS A - 1	Z1			A16	
+ - .83-ANALOG-1 - 2	Z2			B21	
+ -15V-REF-1, 2 - 3	Z3			A15	
+ - .83-REF-1 - 4	Z4			B20	
+ -15V-ANALOG-2 - 5	Z5			A14	
+ -15V-REF-3, 4 - 6	Z6			B19	
+ -15V-ANALOG-1 - 7	Z7			A13	
+ -15V-ANALOG-4 - 8	Z8			B18	
SYNCHRO-REF - 9	Z9			A12	
+ -15V-ANALOG-3 - 10	Z10			B17	
+ -7.5V-REF-1, 2 - 11	Z11			B10	
0-30V-ANALOG-5 - 12	Z12			B15	
+ -7.5V-ANALOG-2 - 13	Z13			B9	
0-30V-ANALOG-4 - 14	Z14			B14	
+ -7.5V-ANALOG-1 - 15	Z15			B8	
0-30V-ANALOG-3 - 16	Z16			B13	
0-30V-ANALOG-10 - 17	Z17			B6	
0-30V-ANALOG-2 - 18	Z18			B12	
0-30V-ANALOG-9 - 19	Z19			B5	
0-30V-ANALOG-1 - 20	Z20			B11	
0-30V-ANALOG-8 - 21	Z21			B4	
COMPOSITE-BEAR - 22	Z22			A11	
0-30V-ANALOG-7 - 23	Z23			B3	
SIN-MODULATION - 24	Z24			A10	
0-30V-ANALOG-6 - 25	Z25			B2	
COS-MODULATION - 26	Z26			A9	
SPARE-10 - 27	Z27		A11		
SYNCHRO-COMP-Y - 28	Z28			A8	
SPARE-8 - 29	Z29		A27		
SYNCHRO-COMP-X - 30	Z30			A7	
SPARE-9 - 31	Z31		B28		
RS-422-IN-2-HI - 32	Z32				A18
OBI-OBS-RTN - 33	Z33			A6	
RS-422-IN-2-LO - 34	Z34				A17
OBI-OBS-COS - 35	Z35			A5	
RS-422-IN-3-HI - 36	Z36				A13
OBI-OBS-SIN - 37	Z37			A4	
RS-422-IN-3-LO - 38	Z38				A14
SYNCHRO-2-Z - 39	Z39			A3	
RS-422-IN-4-HI - 40	Z40				A15
SYNCHRO-2-Y - 41	Z41			A2	
RS-422-IN-4-LO - 42	Z42				A16
SYNCHRO-2-X - 43	Z43			A1	
RS-422-IN-5-HI - 44	Z44				A11

	J1A	J1B	J4	J8	J10
568-SYNC-LO - 45	Z45				B6
RS-422-IN-5-LO - 46	Z46				A12
RS-422-IN-1-HI - 47	Z47				A20
RS-422-IN-6-HI - 48	Z48				A10
RS-422-IN-1-LO - 49	Z49				A19
RS-422-IN-6-LO - 50	Z50				A9
568-CLOCK-LO - 51	Z51				B8
SPARE-7 - 52	Z52			B27	
568-CLOCK-HI - 53	Z53				B7
568-SYNC-HI - 54	Z54				B5
568-DATA-LO - 55	Z55				B10
429-IN-LO - 56	Z56				B3
568-DATA-HI - 57	Z57				B9
429-IN-HI - 58	Z58				B4
ACH-LOAD-IN-LO - 59	Z59				A6
ACH-LOAD-OUT-LO - 49	Z119				B25
429-OUT-LO - 60	Z60				A4
ACH-LOAD-IN-HI - 61	Z61				A5
ACH-LOAD-OUT-HI - 51	Z121				B26
429-OUT-HI - 62	Z62				A3
ACH-CLOCK-IN-LO - 63	Z63				A8
ACH-CLOCK-OUT-LO - 53	Z123				A27
COMMON - 64	Z64				B1
ACH-CLOCK-IN-HI - 65	Z65				A7
ACH-CLOCK-OUT-HI - 55	Z125				A28
SYNC - 66	Z66				A2
ACH-DATA-OUT-LO - 67	Z67				A25
ACH-DATA-IN-LO - 57	Z127				B23
CLOCK - 68	Z68				B2
ACH-DATA-OUT-HI - 69	Z69				A26
ACH-DATA-IN-HI - 59	Z129				B24
DATA - 70	Z70				A1

Motherboard A3 Schematic
Figure 5 (Sheet 4)



Motherboard A3 Schematic
Figure 5 (Sheet 5)



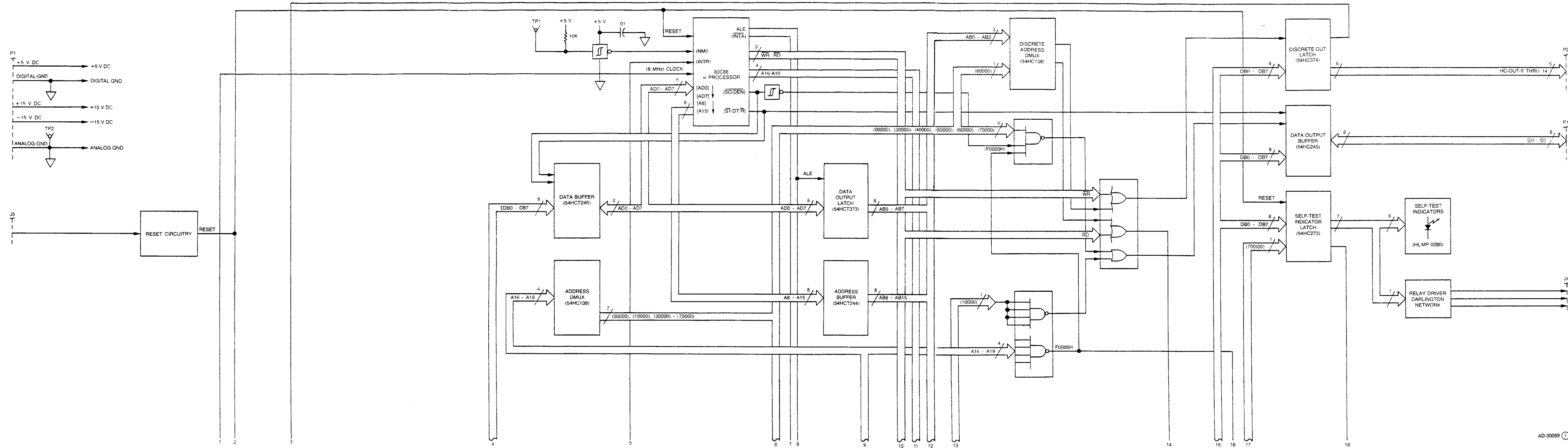
Motherboard A3 Schematic
Figure 5 (Sheet 6)

Revision Code (Arrow No.)	Revision Description	Effectivity
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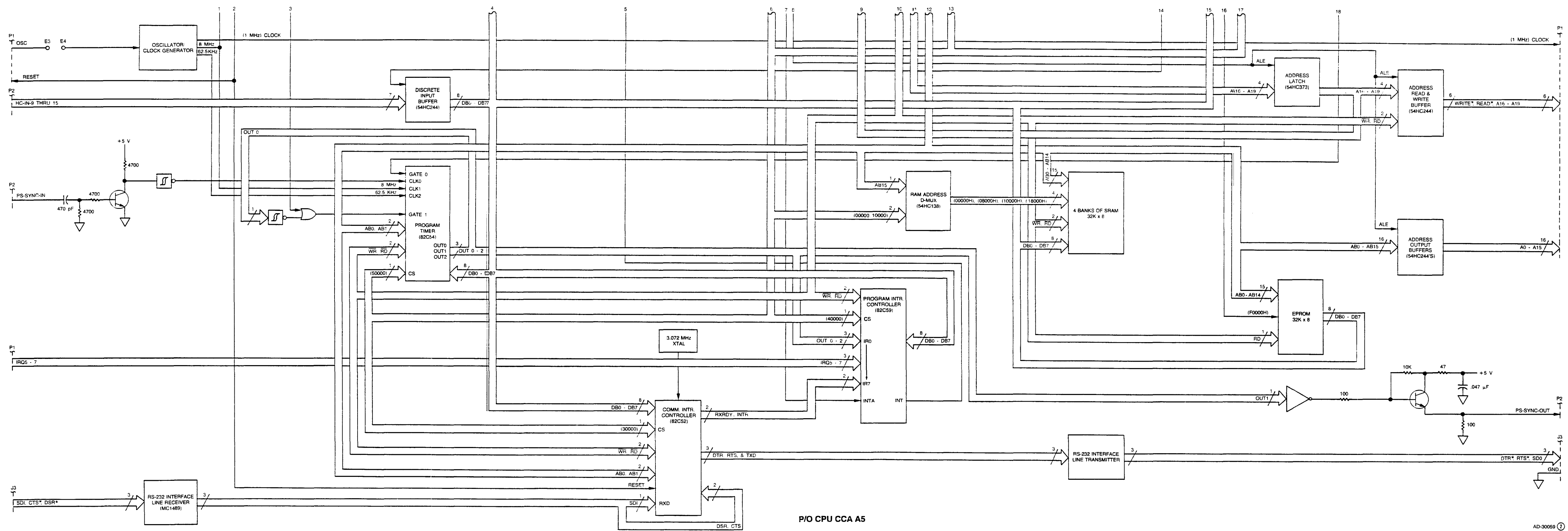
Revision Reference Sheet
for Figure 6

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P/O CPU CCA A5



CPU CCA A5 Block Diagram
Figure 6 (Sheet 1 of 2)



P/O CPU CCA A5

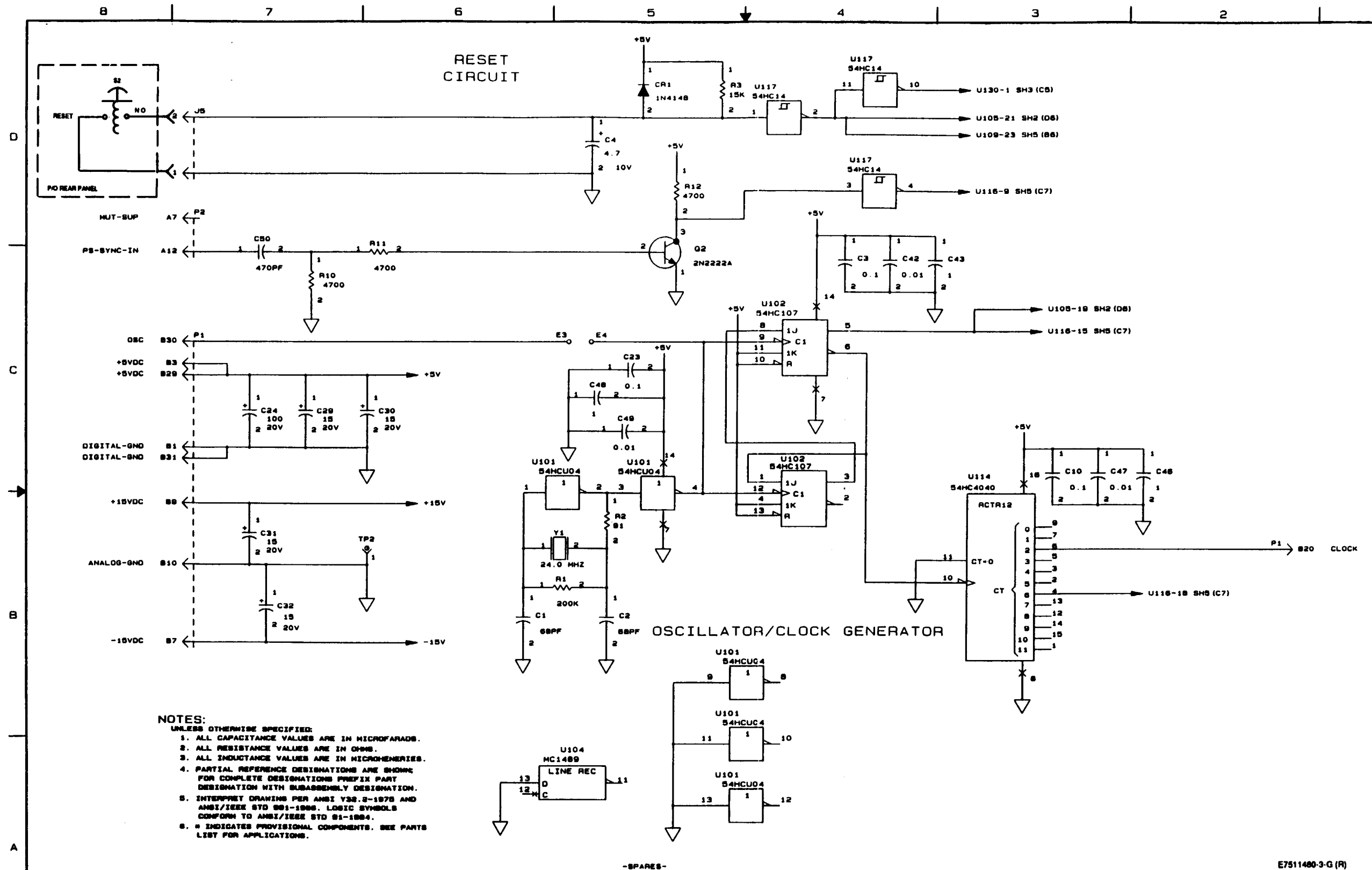
AD-30059 ②

CPU CCA A5 Block Diagram
Figure 6 (Sheet 2)

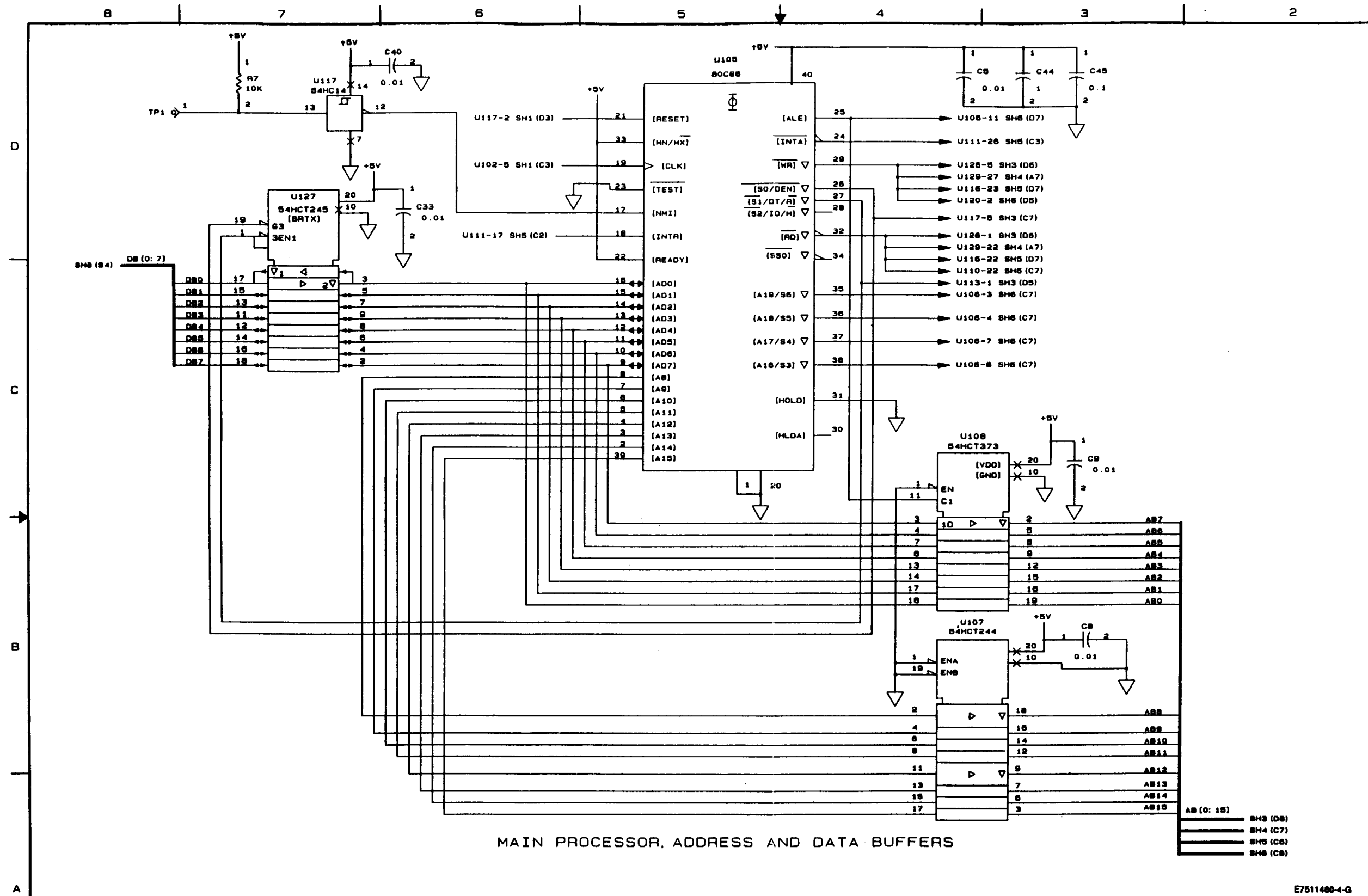
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Revision Reference Sheet
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2-2
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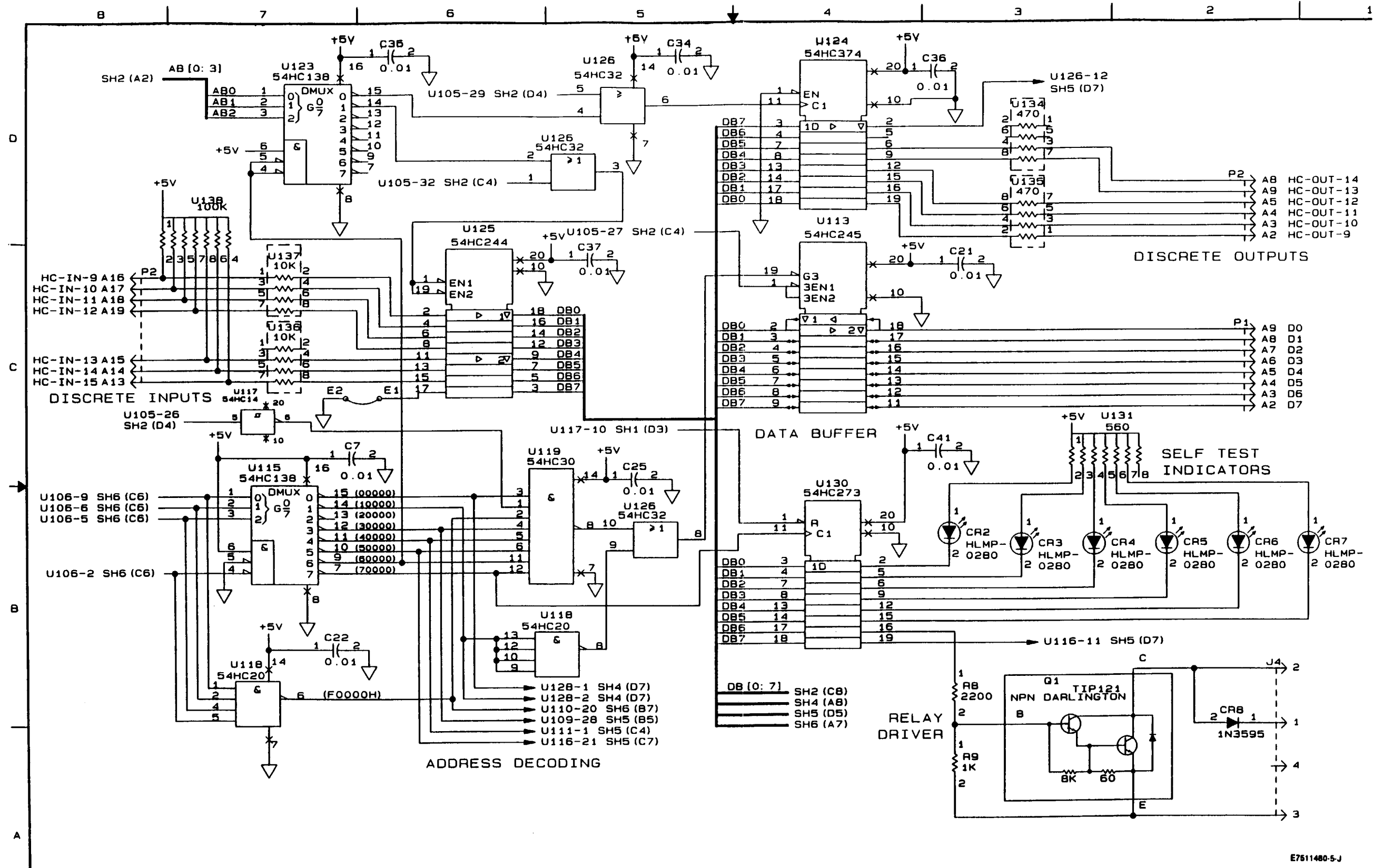


CPU CCA A5 Schematic
Figure 7 (Sheet 1 of 6)

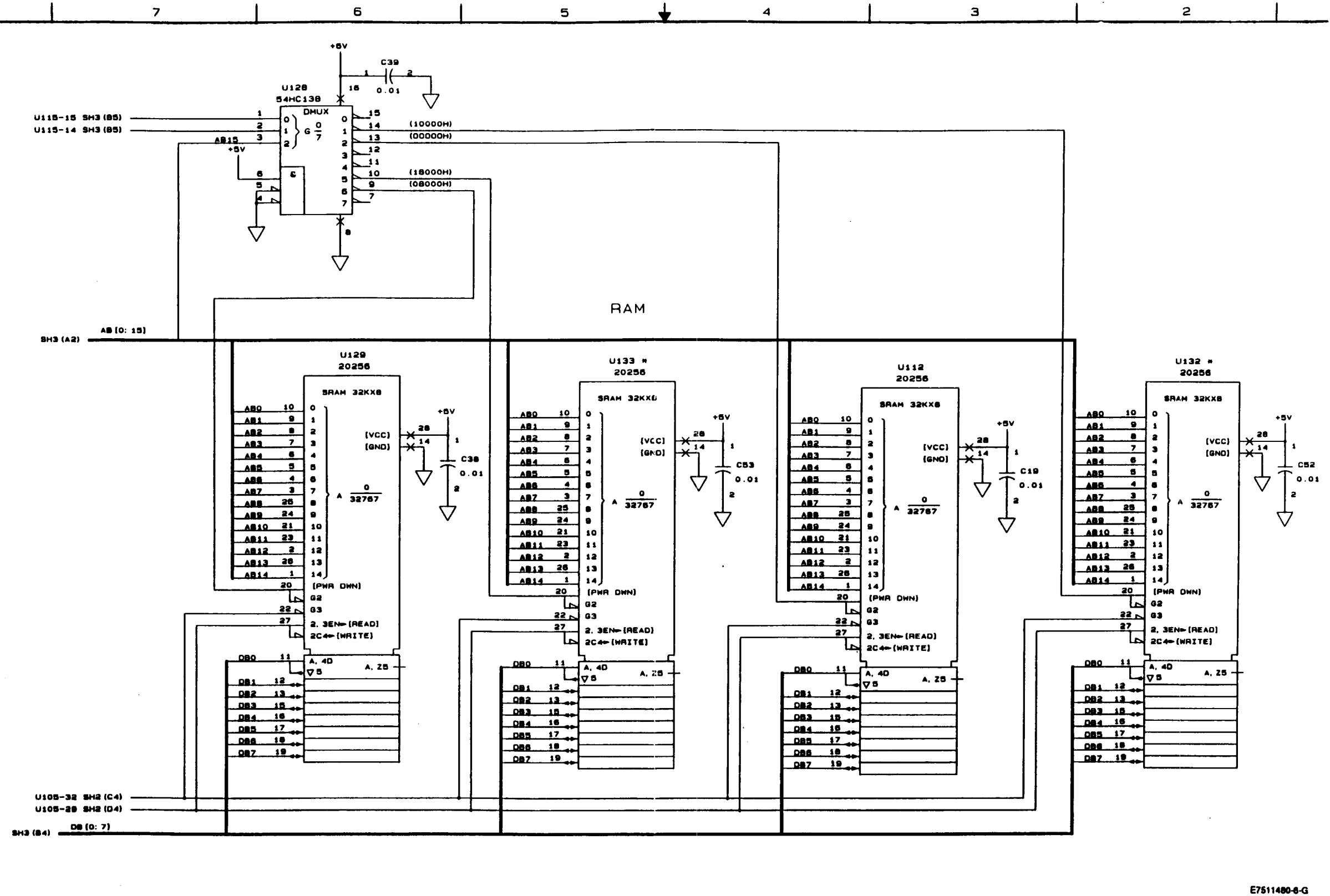


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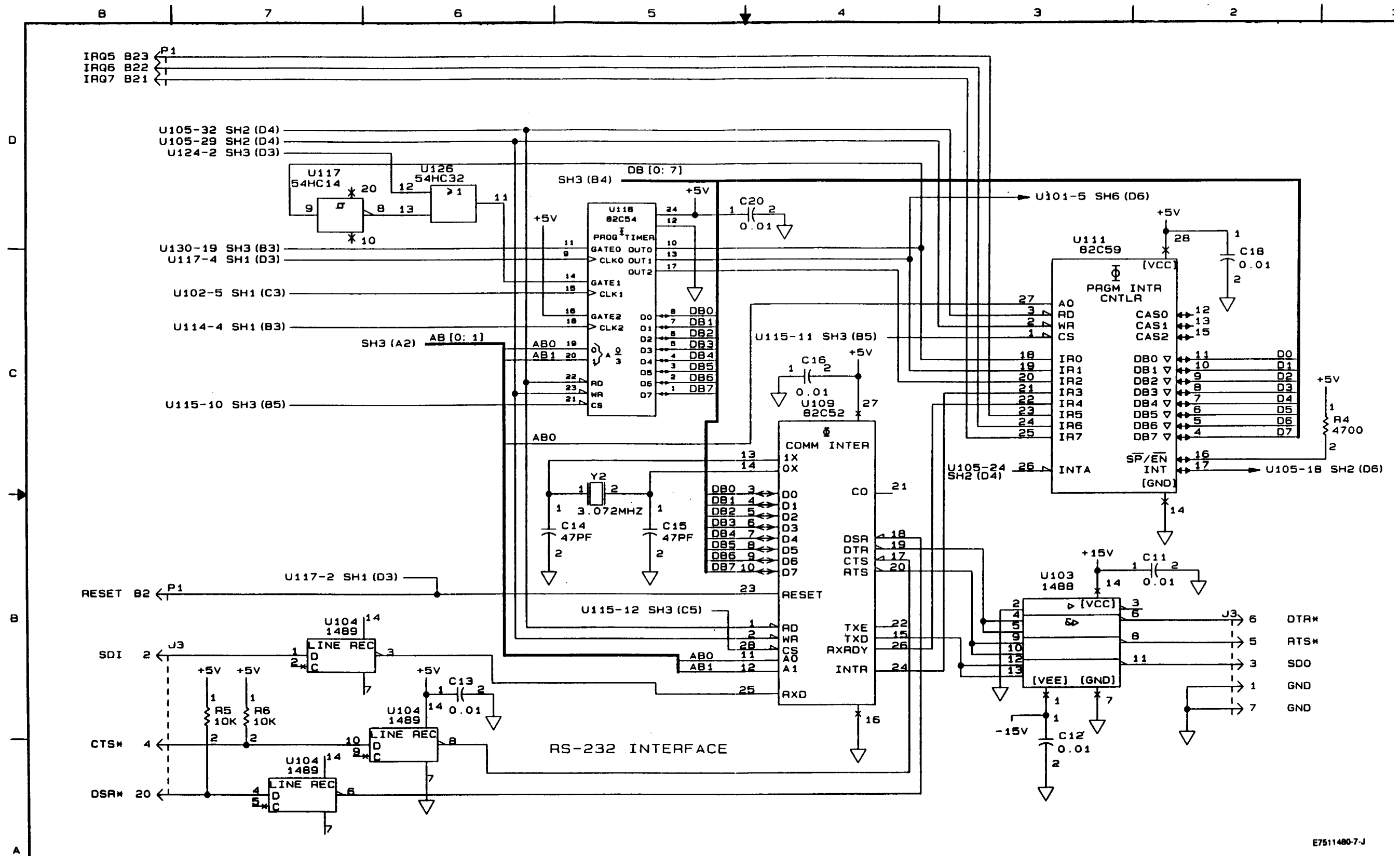
CPU CCA A5 Schematic
Figure 7 (Sheet 2)



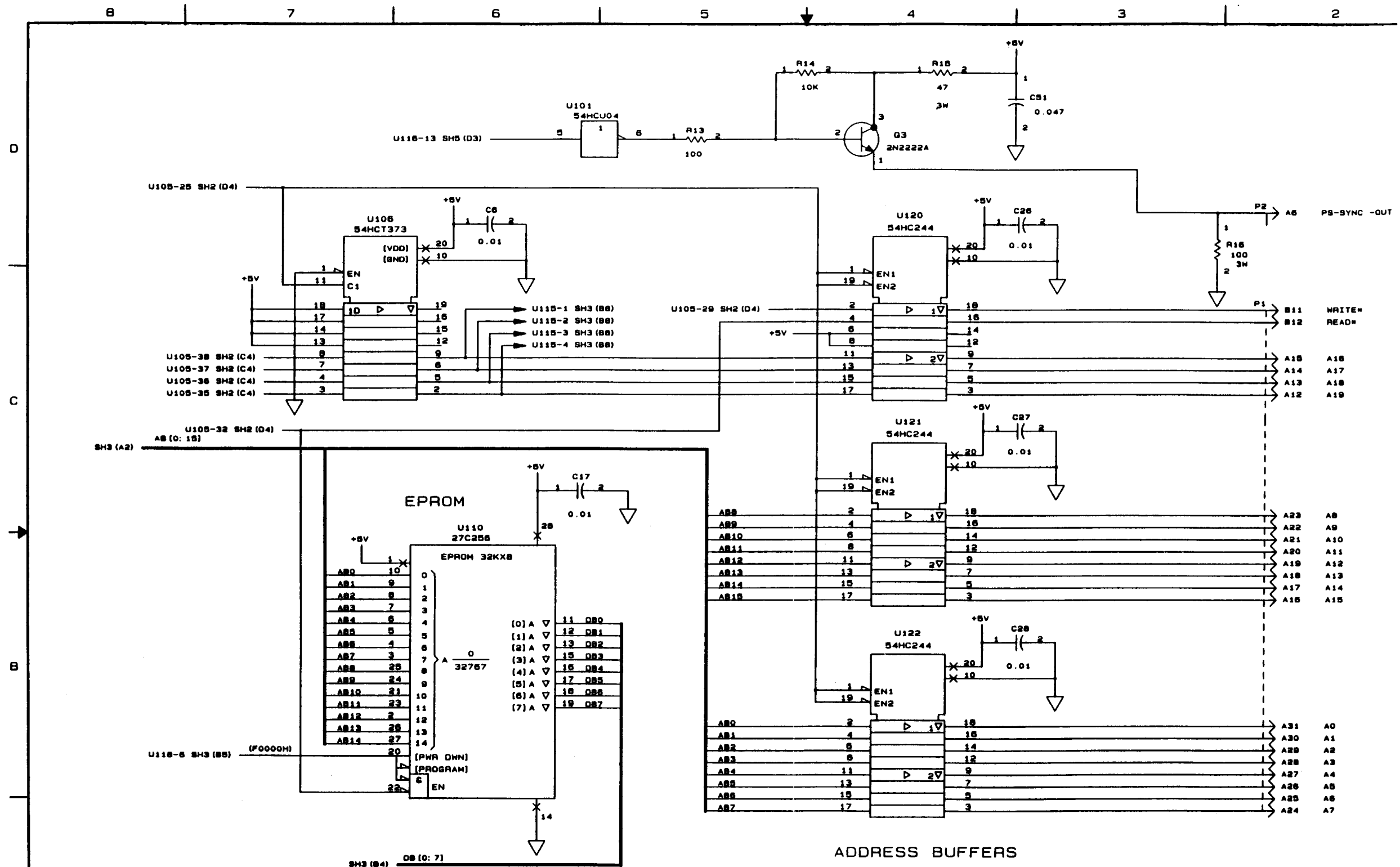
CPU CCA A5 Schematic
Figure 7 (Sheet 3)



CPU CCA A5 Schematic
Figure 7 (Sheet 4)



CPU CCA A5 Schematic
Figure 7 (Sheet 5)



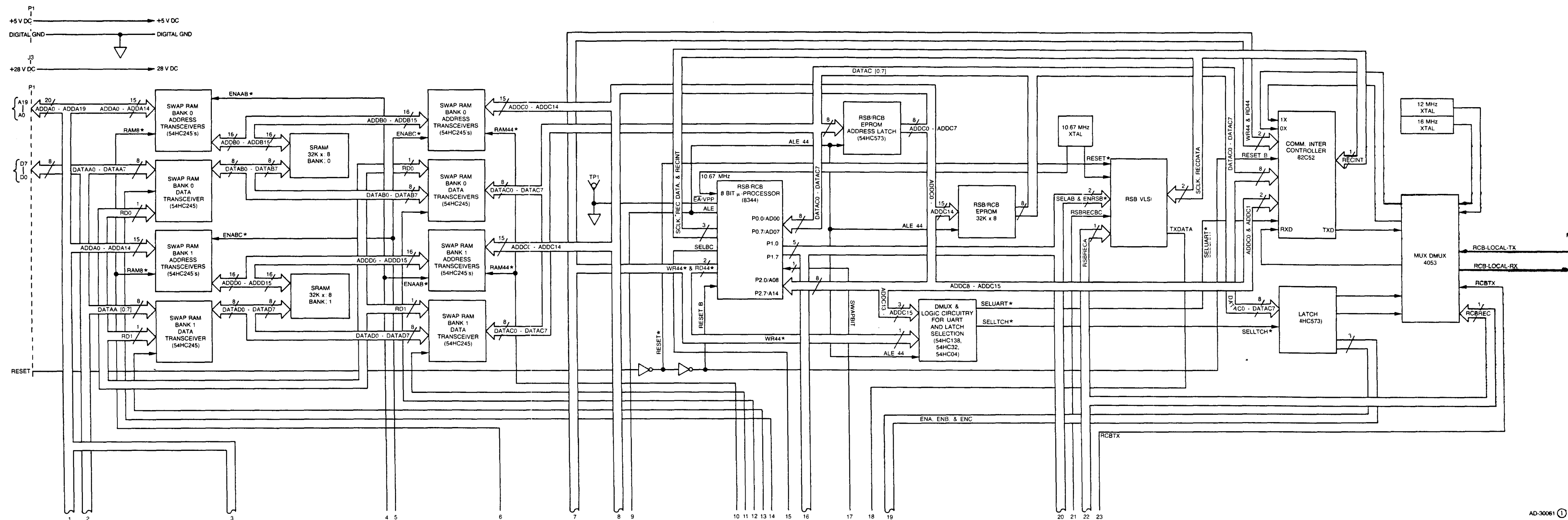
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CPU CCA A5 Schematic
Figure 7 (Sheet 6)

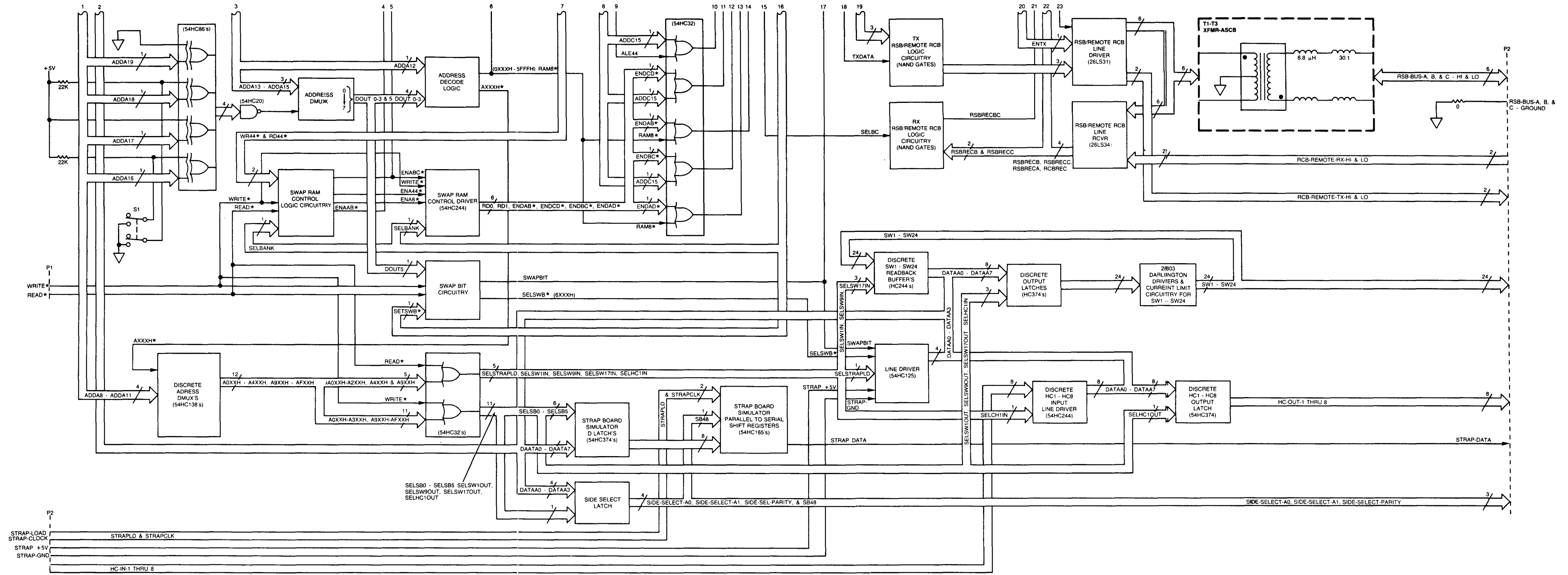
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Revision Reference Sheet
for Figure 8

P/O RSB/RCB STRAP CCA A6



RSB, RCB, Strap CCA A6 Block Diagram
Figure 8 (Sheet 1 of 2)



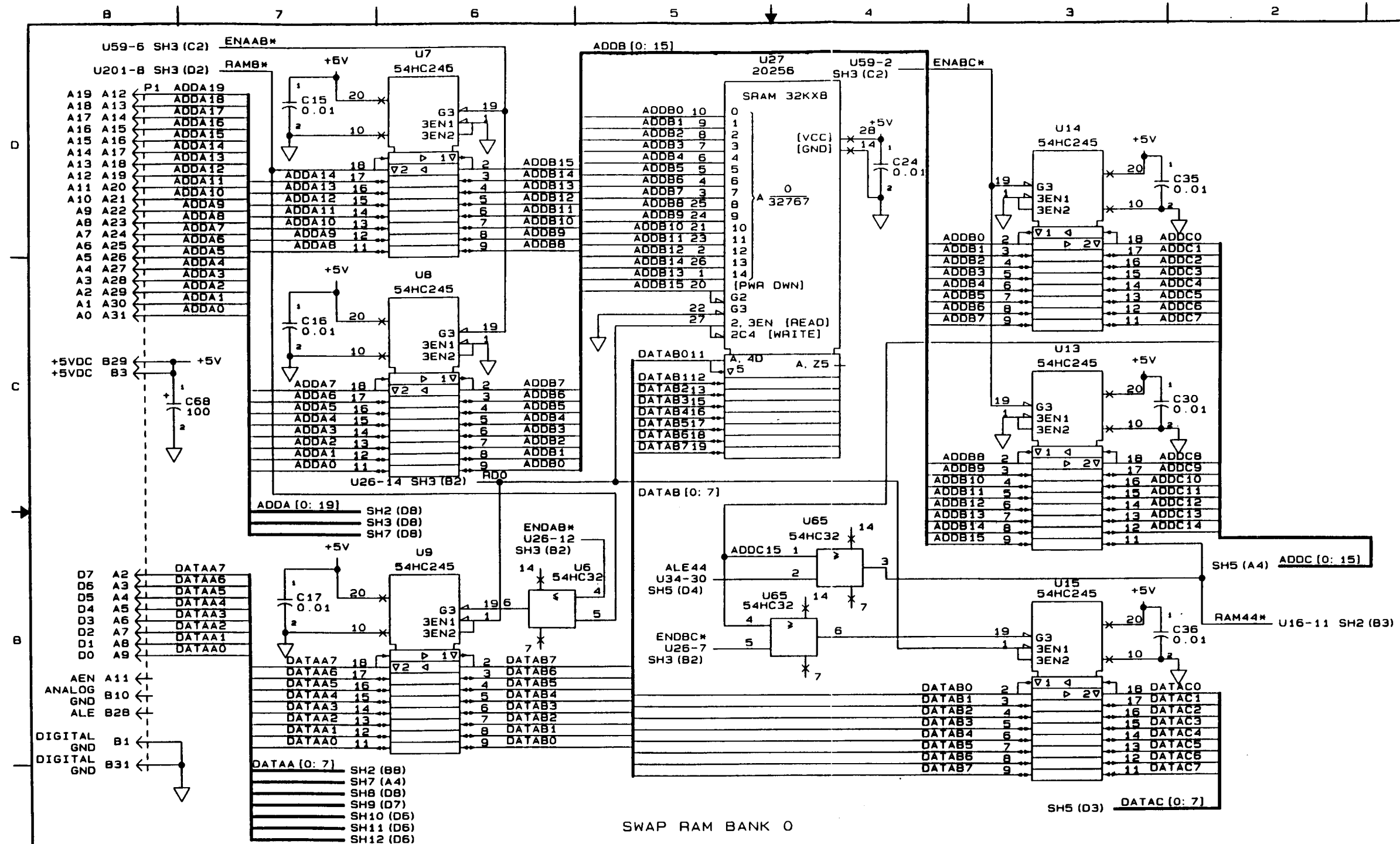
P/O RSB/RCB STRAP CCA A6

RSB, RCB, Strap CCA A6 Block Diagram
Figure 8 (Sheet 2)

Revision Code (Arrow No.)	Revision Description	Effectivity
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Revision Reference Sheet
for Figure 9

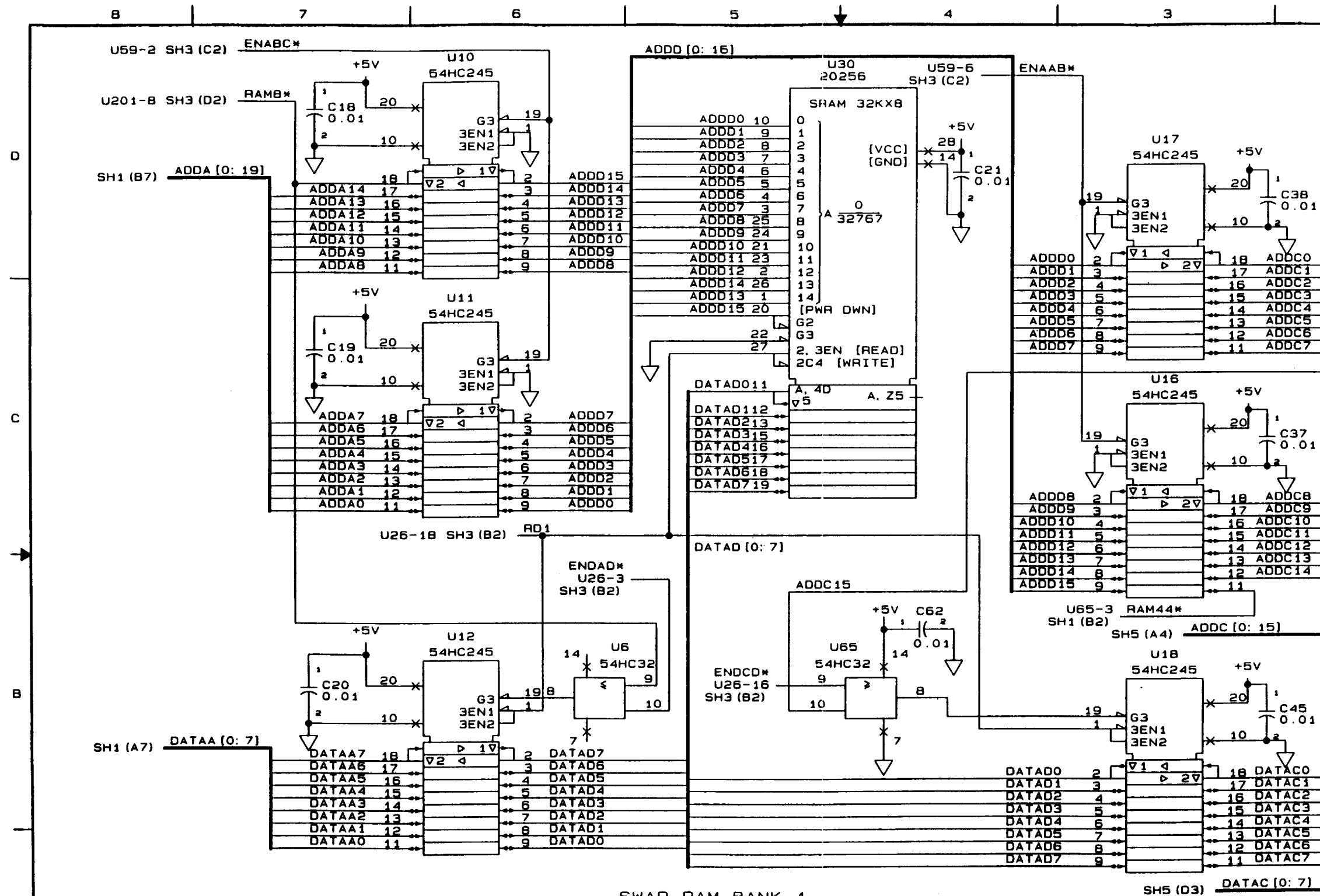
2-2
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Dec 1/92



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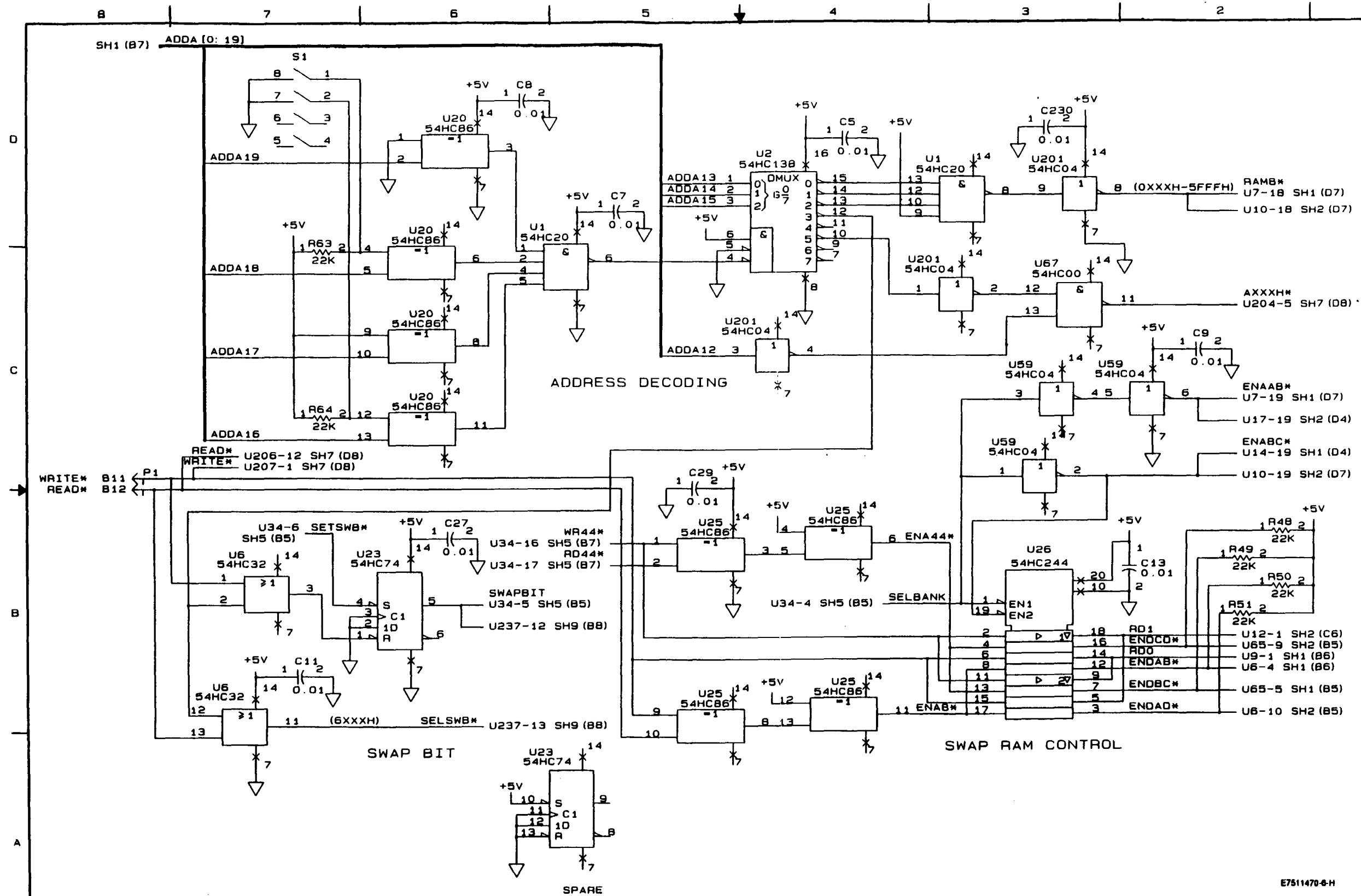
- UNLESS OTHERWISE SPECIFIED:
1. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
 2. ALL RESISTANCE VALUES ARE IN OHMS.
 3. ALL INDUCTANCE VALUES ARE IN MICROHENRIES.
 4. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATIONS PREFIX PART DESIGNATION WITH SUBASSEMBLY DESIGNATION.
 5. INTERPRET DRAWING PER ANSI Y32.2-1975 AND ANSI/IEEE STD 991-1986. LOGIC SYMBOLS CONFORM TO ANSI/IEEE STD 91-1984.

RSB, RCB, Strap CCA A6 Schematic
Figure 9 (Sheet 1 of 12)



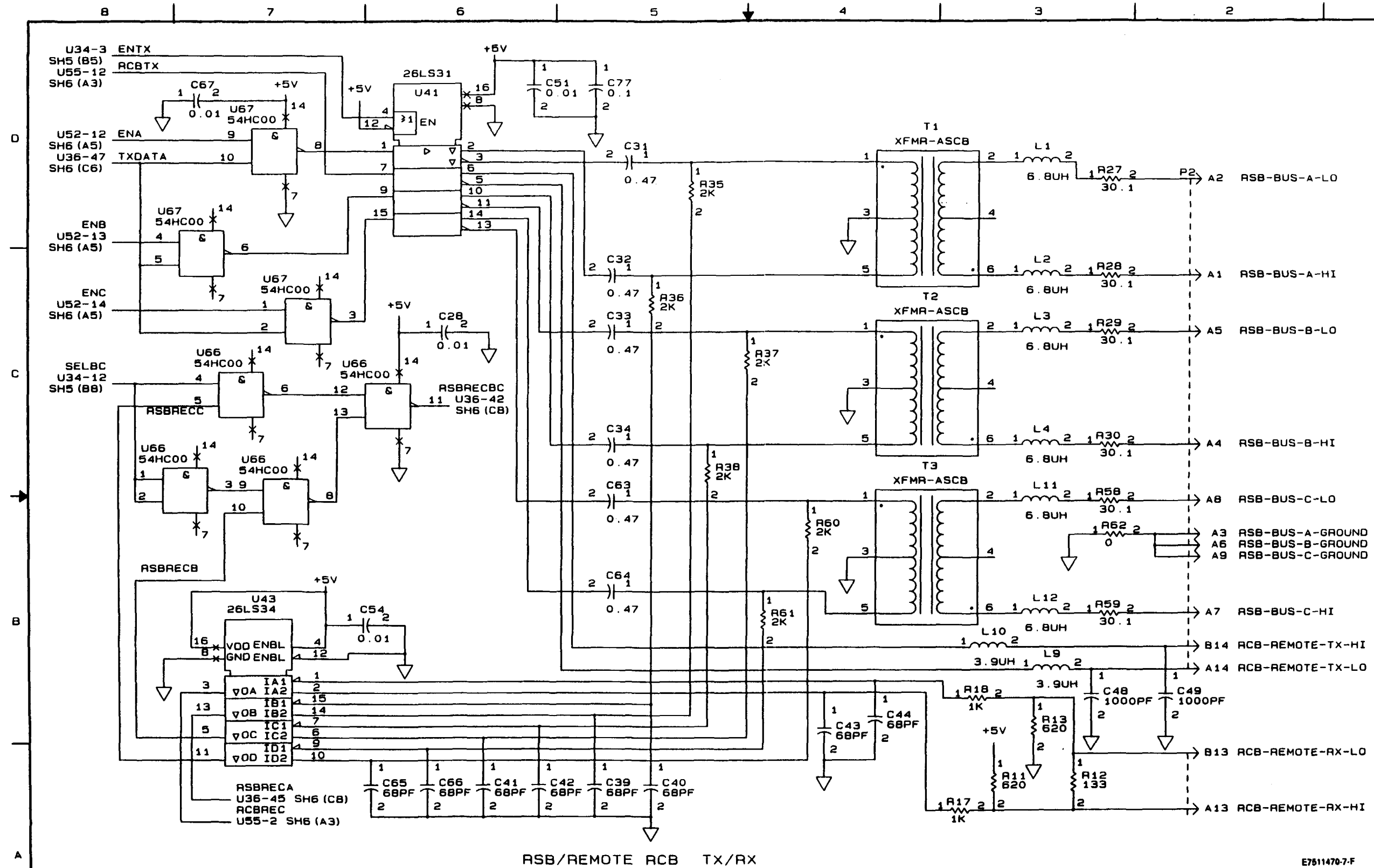
SWAP RAM BANK 1

RSB, RCB, Strap CCA A6 Schematic
Figure 9 (Sheet 2)



E7511470-6-H

RSB, RCB, Strap CCA A6 Schematic
Figure 9 (Sheet 3)



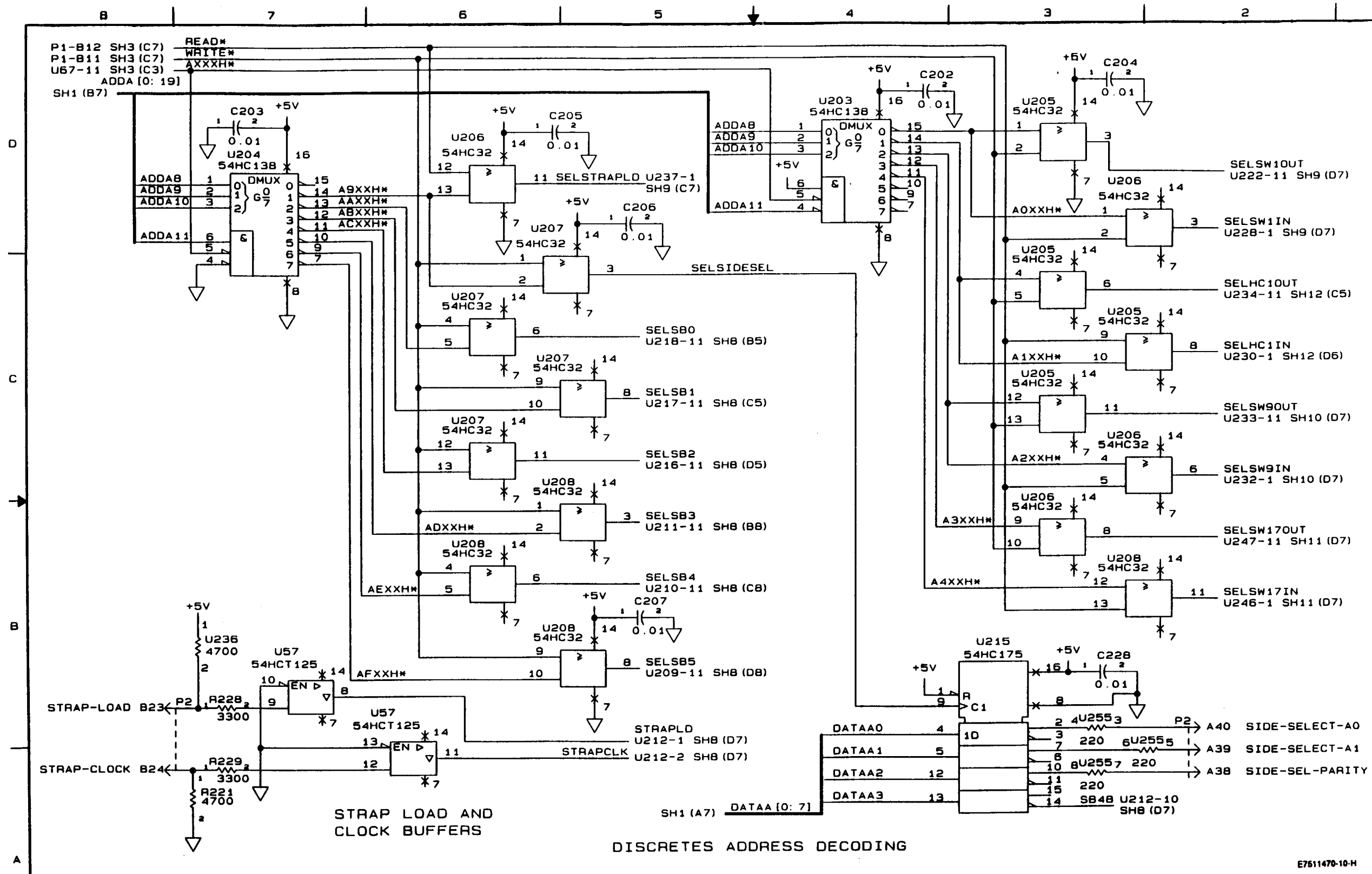
RSB, RCB, Strap CCA A6 Schematic
Figure 9 (Sheet 4)



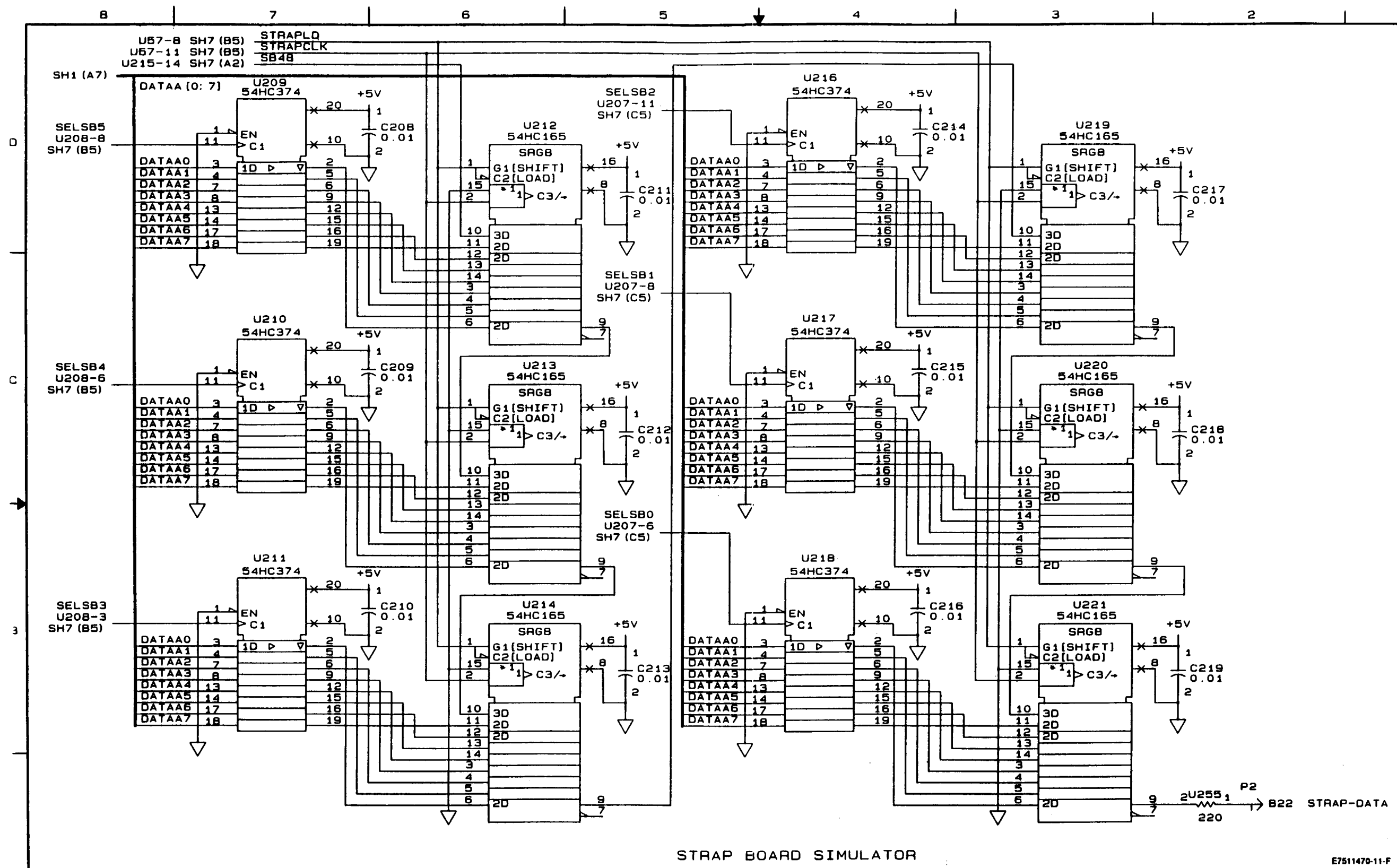
RSB, RCB, Strap CCA A6 Schematic
Figure 9 (Sheet 5)



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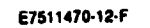
RSB, RCB, Strap CCA A6 Schematic
Figure 9 (Sheet 7)



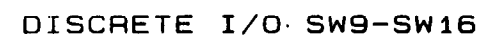
STRAP BOARD SIMULATOR

E7511470-11-F

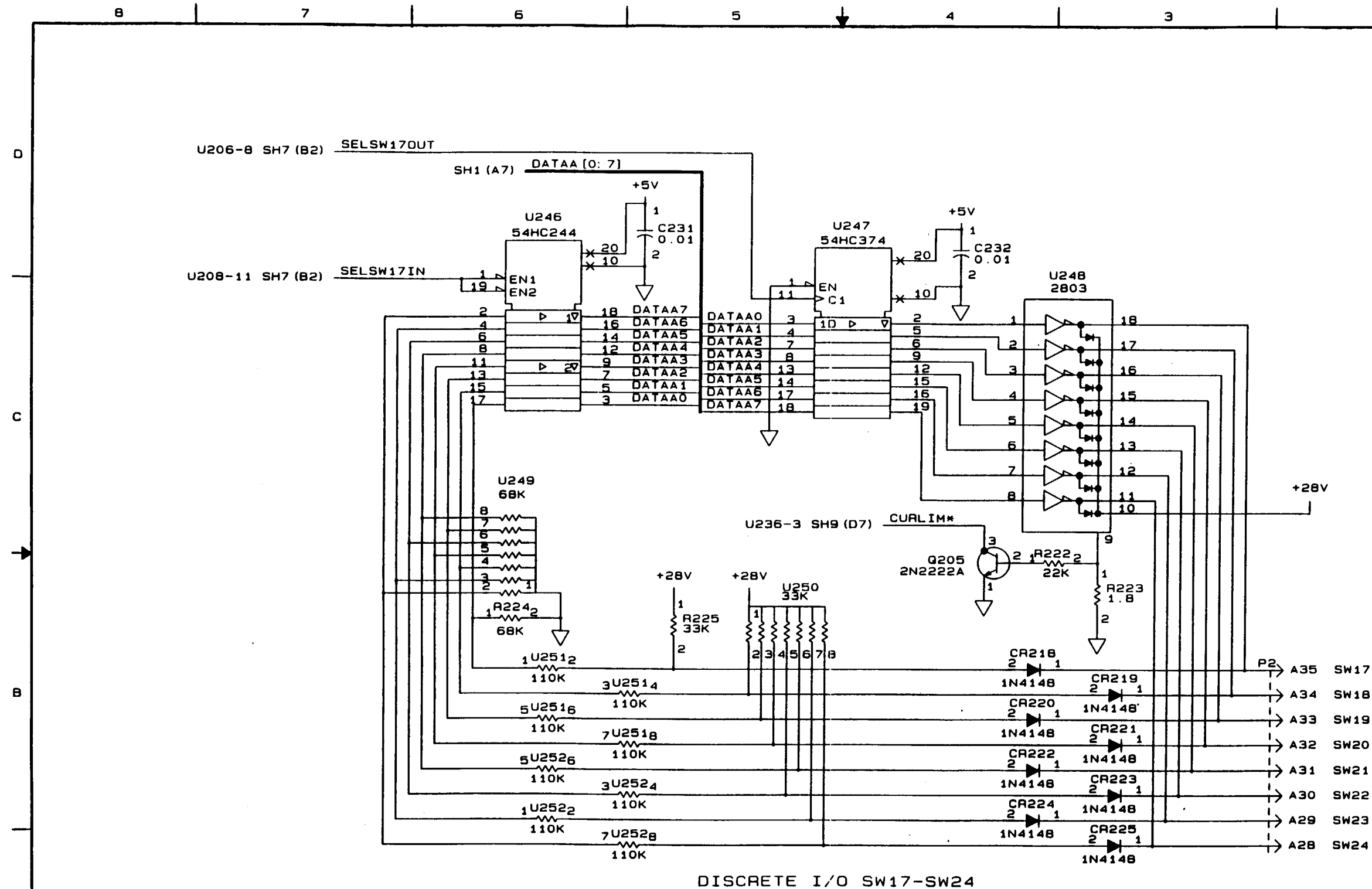
RSB, RCB, Strap CCA A6 Schematic
Figure 9 (Sheet 8)



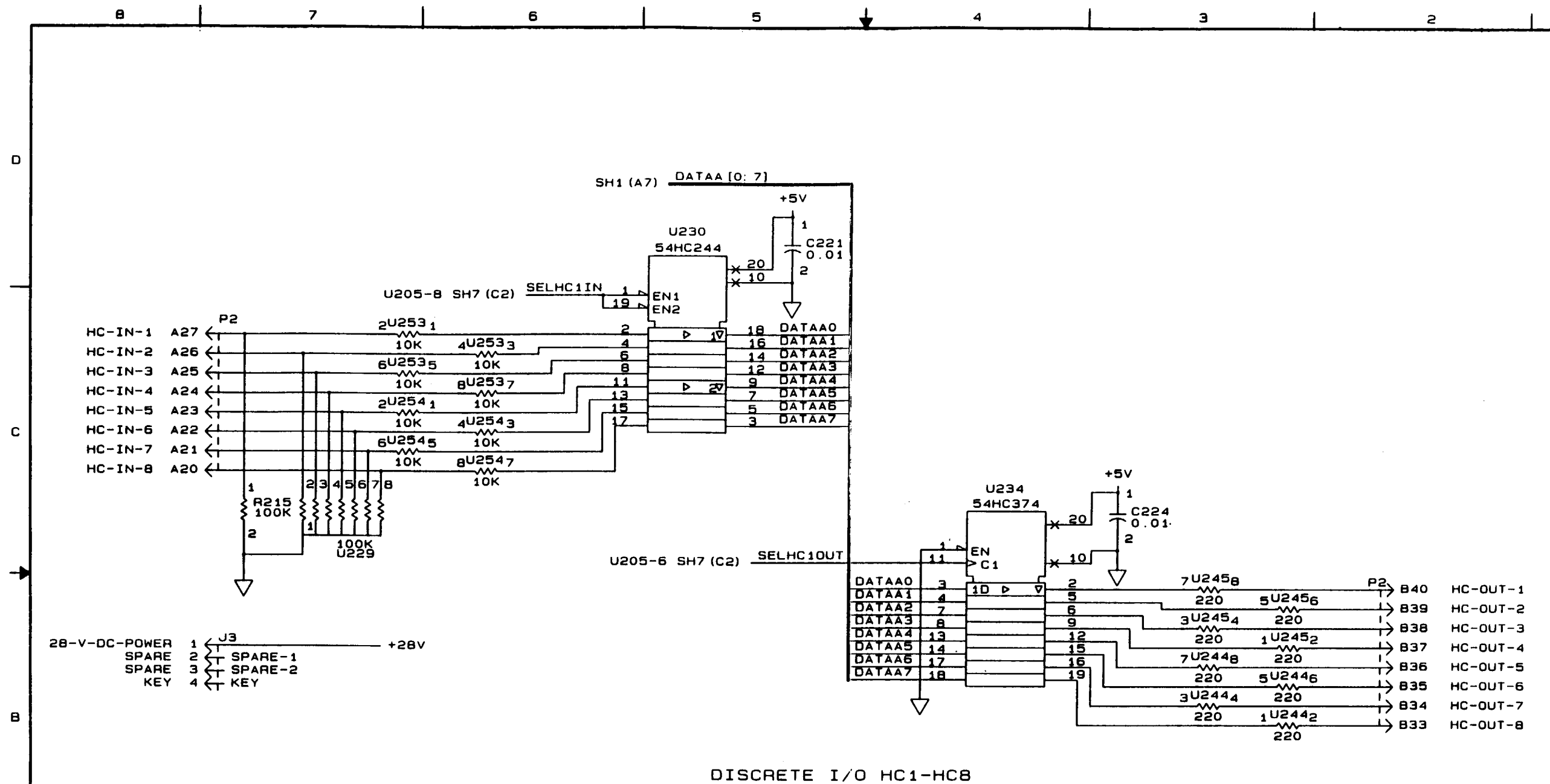
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Pages 99/100
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Pages 101/102
Dec 1/92



RSB, RCB, Strap CCA A6 Schematic
Figure 9 (Sheet 11)



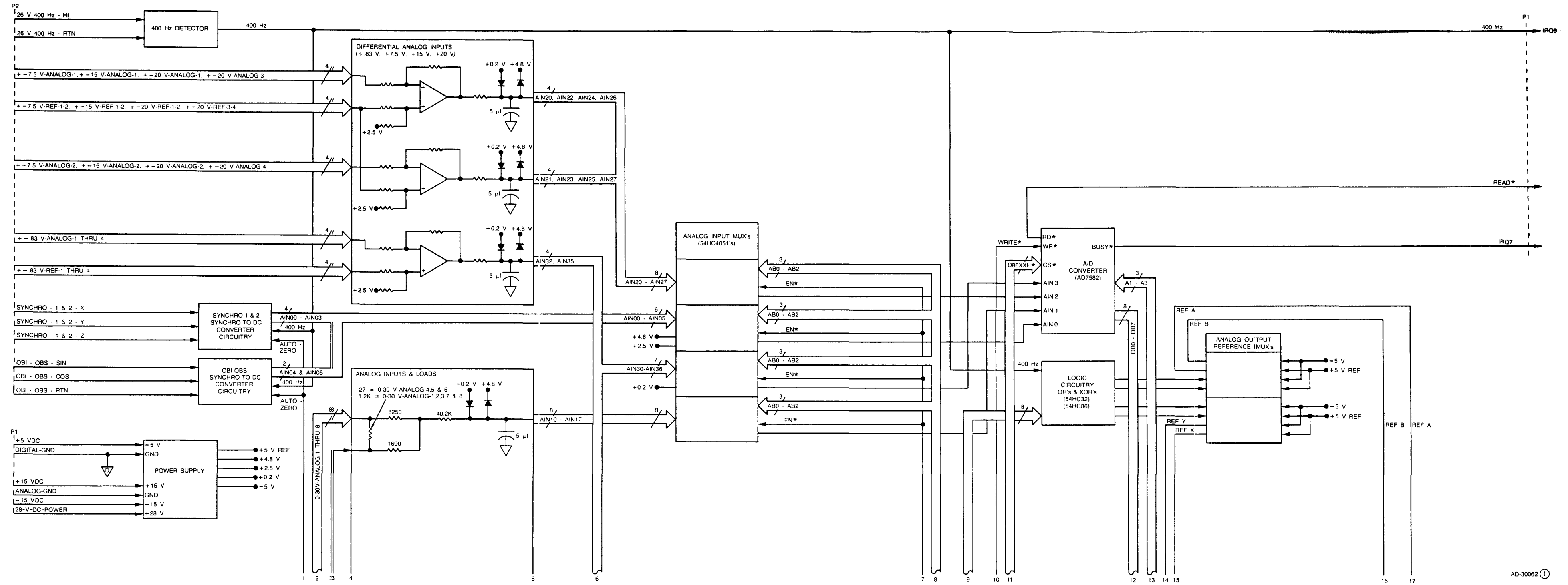
RSB, RCB, Strap CCA A6 Schematic
Figure 9 (Sheet 12)

Revision Code (Arrow No.)	Revision Description	Effectivity
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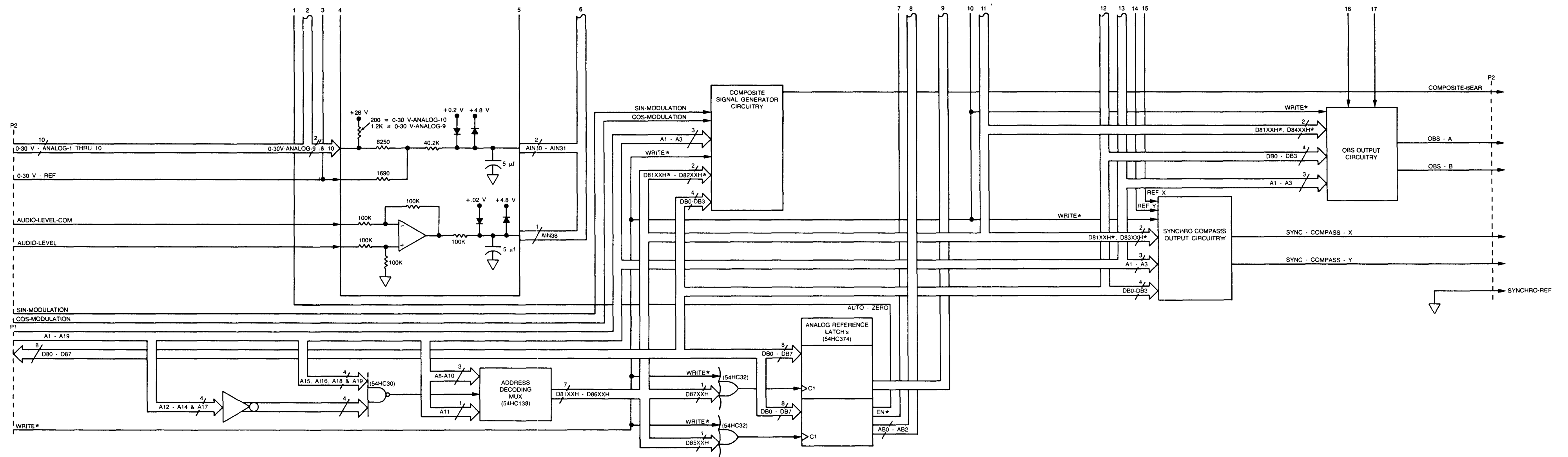
Revision Reference Sheet
for Figure 10

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P/O ANALOG CCA A7



Analog CCA A7 Block Diagram
Figure 10 (Sheet 1 of 2)



P/O ANALOG CCA A7

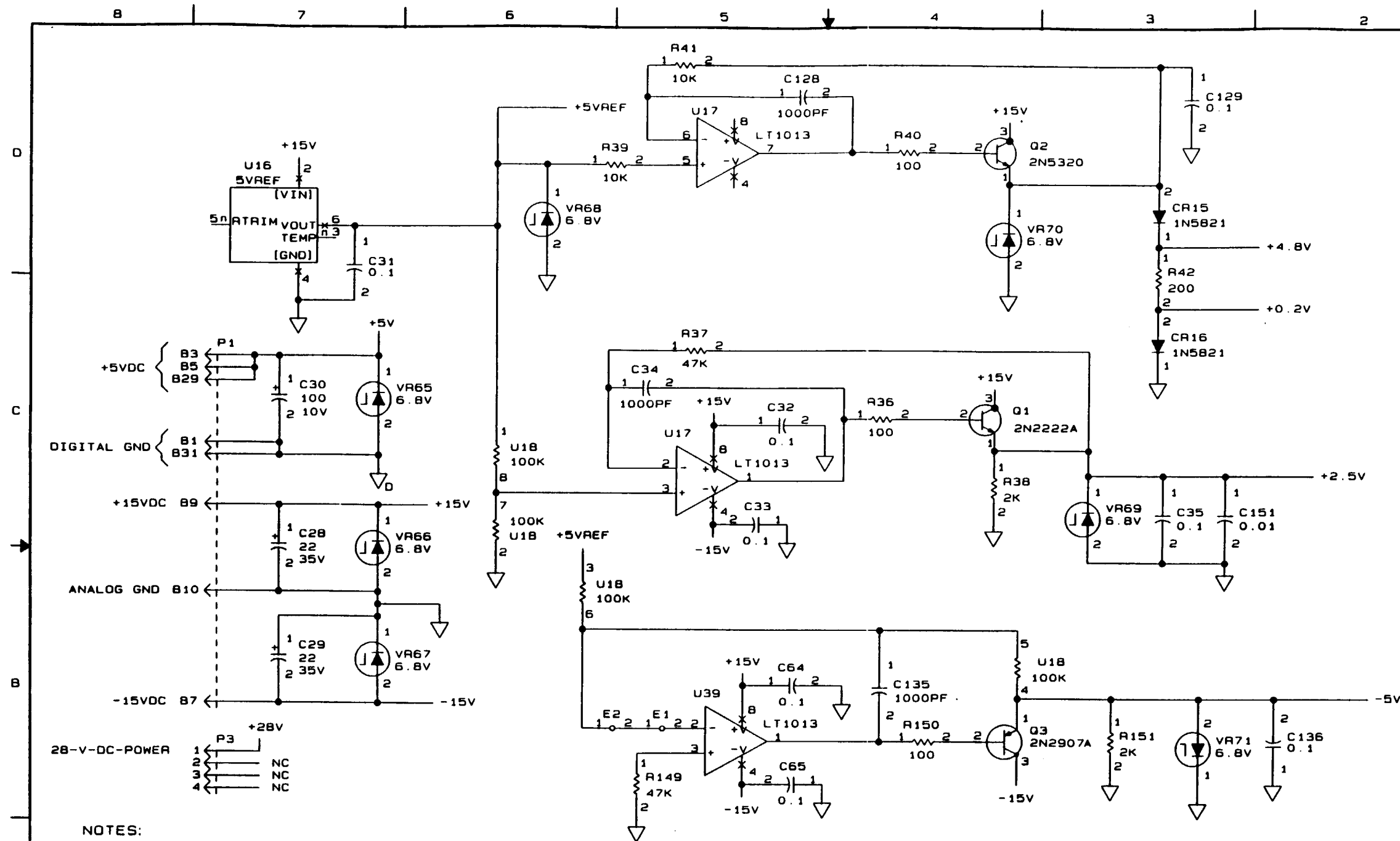
AD-30062 ①

Analog CCA A7 Block Diagram
Figure 10 (Sheet 2)

Revision Code (Arrow No.)	Revision Description	Effectivity
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Revision Reference Sheet
for Figure 11

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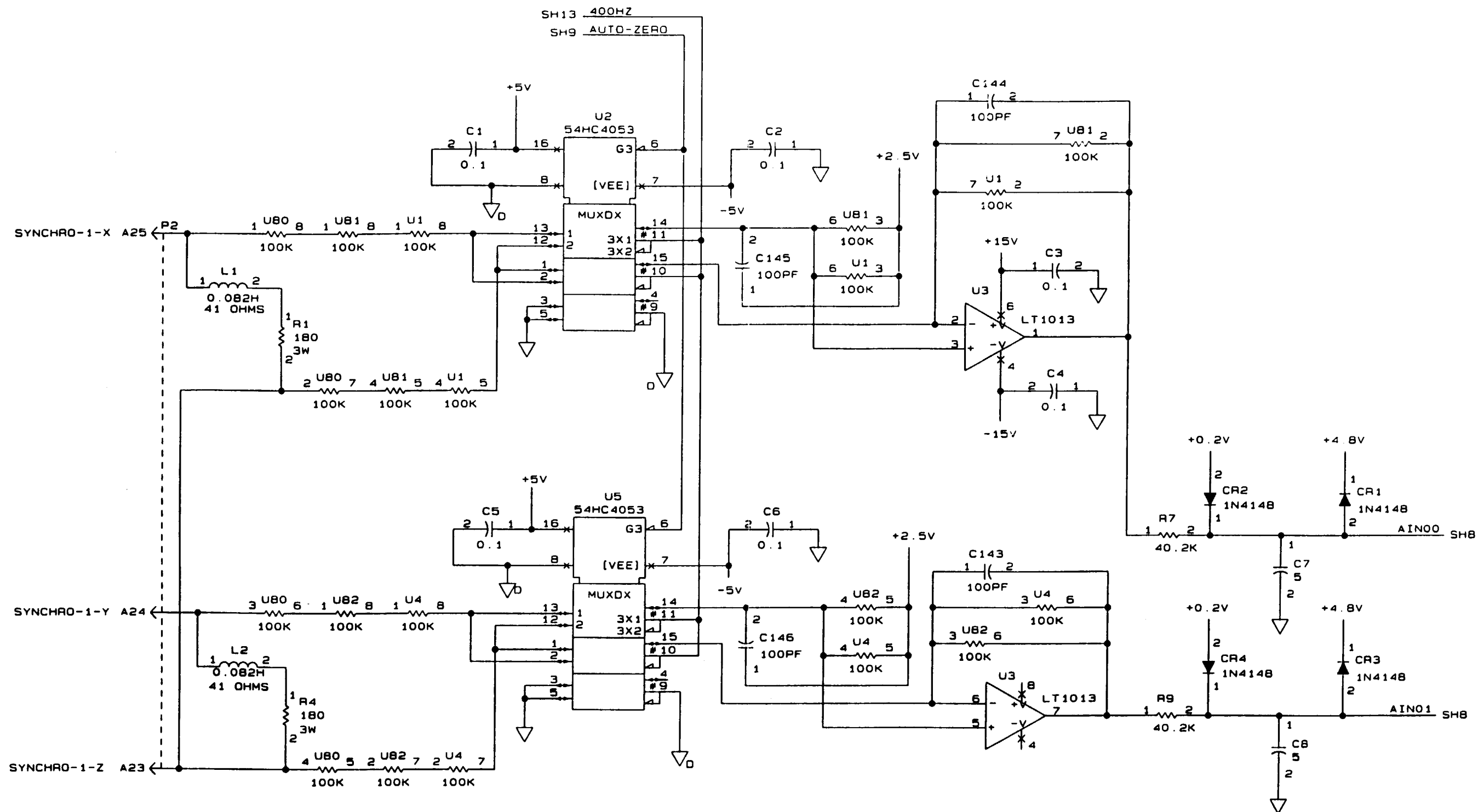


NOTES:

- UNLESS OTHERWISE SPECIFIED:
 1. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
 2. ALL RESISTANCE VALUES ARE IN OHMS.
 3. ALL INDUCTANCE VALUES ARE IN MICROHENRIES.
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 5. INTERPRET DRAWING PER ANSI Y32.2-1975 AND
 ANSI/IEEE STD 991-1986. LOGIC SYMBOLS
 CONFORM TO ANSI/IEEE STD 91-1984.

POWER SUPPLIES

Analog CCA A7 Schematic
Figure 11 (Sheet 1 of 14)



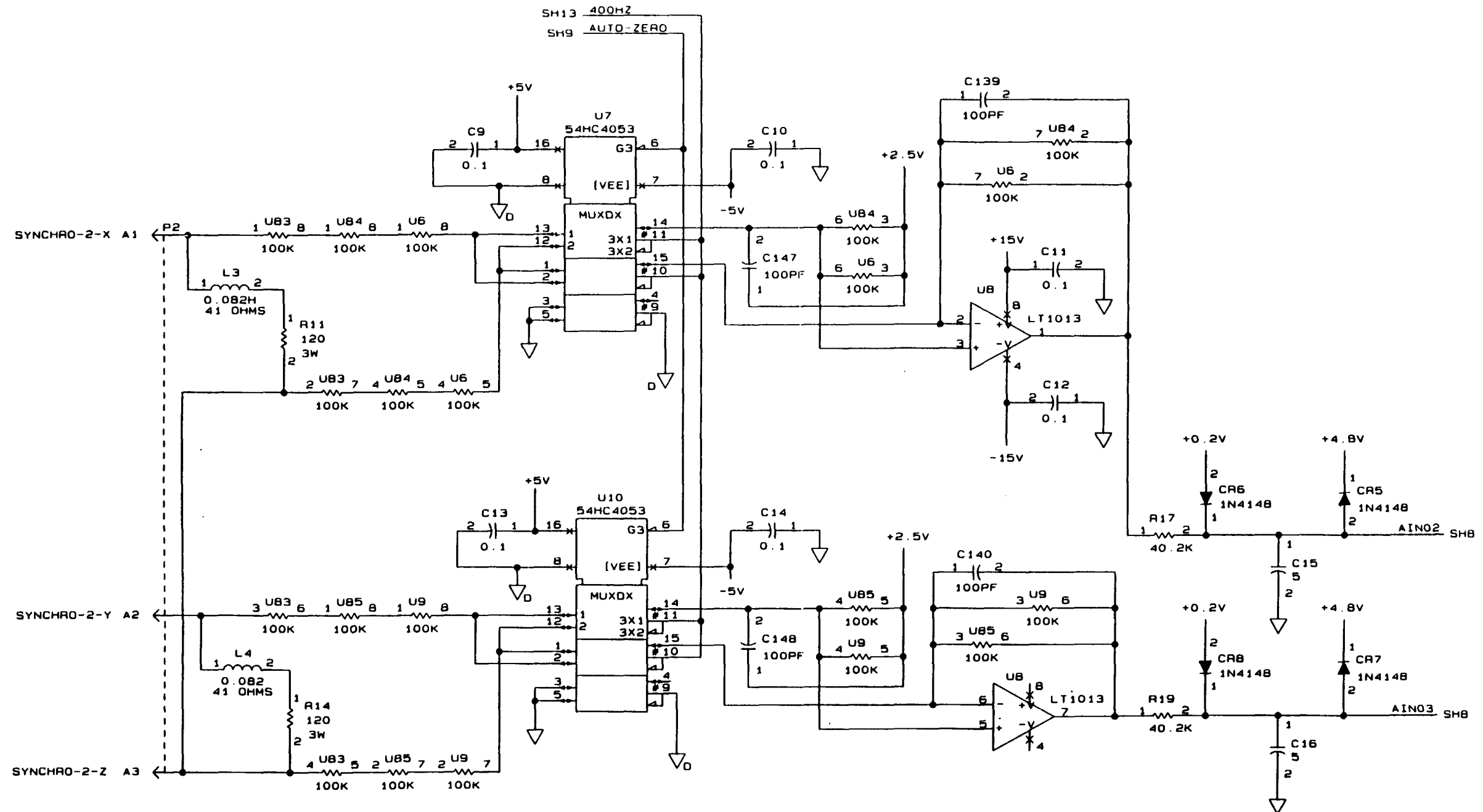
SYNCHRO 1 SYNCHRO TO DC CONVERTER

SCHEMATIC DIAGRAM SHEET NO.2

7511460-901-E-7

Analog CCA A7 Schematic
Figure 11 (Sheet 2)

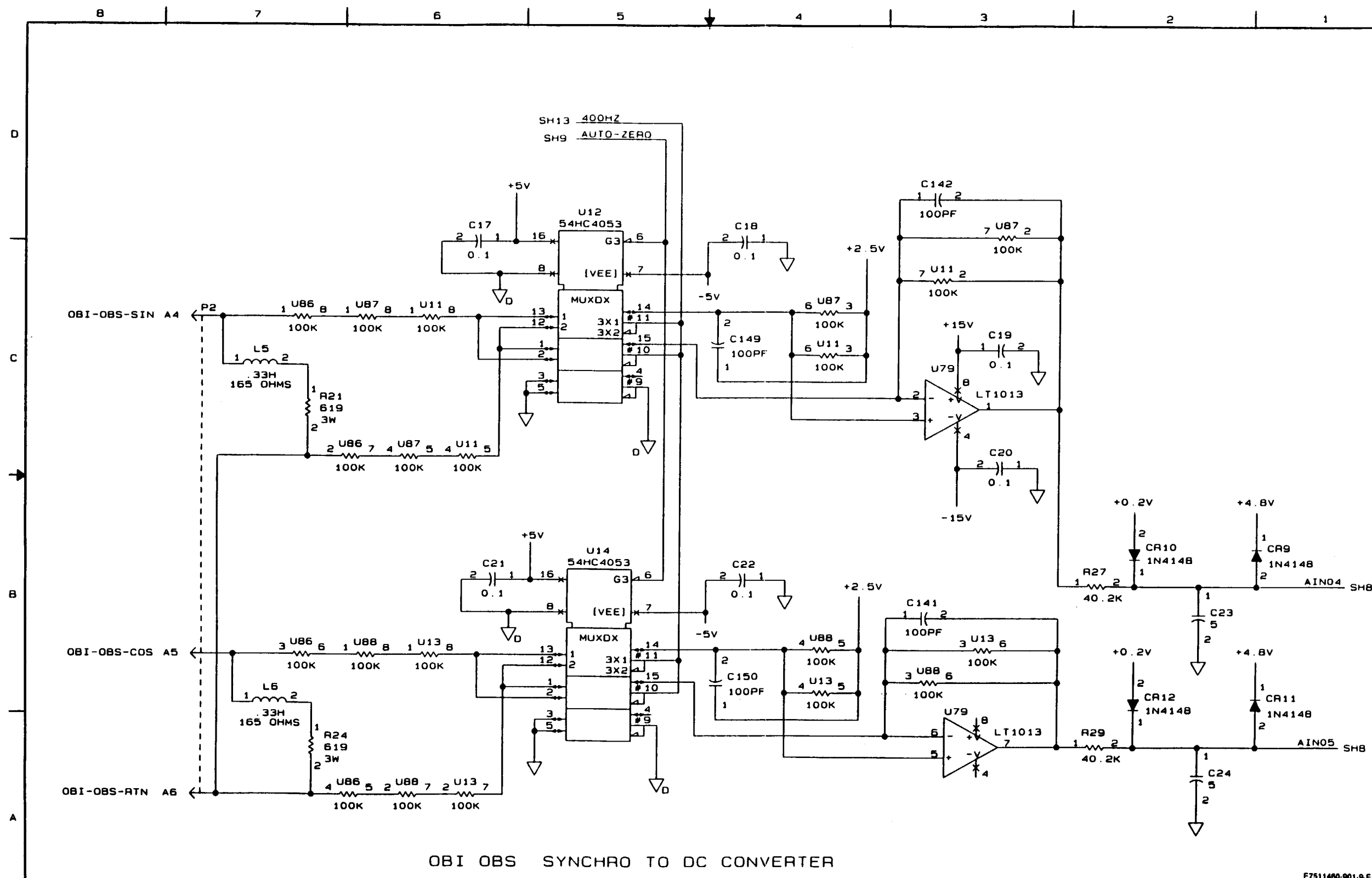
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SYNCHRO 2 SYNCHRO TO DC CONVERTER

E7511400-001-B-E

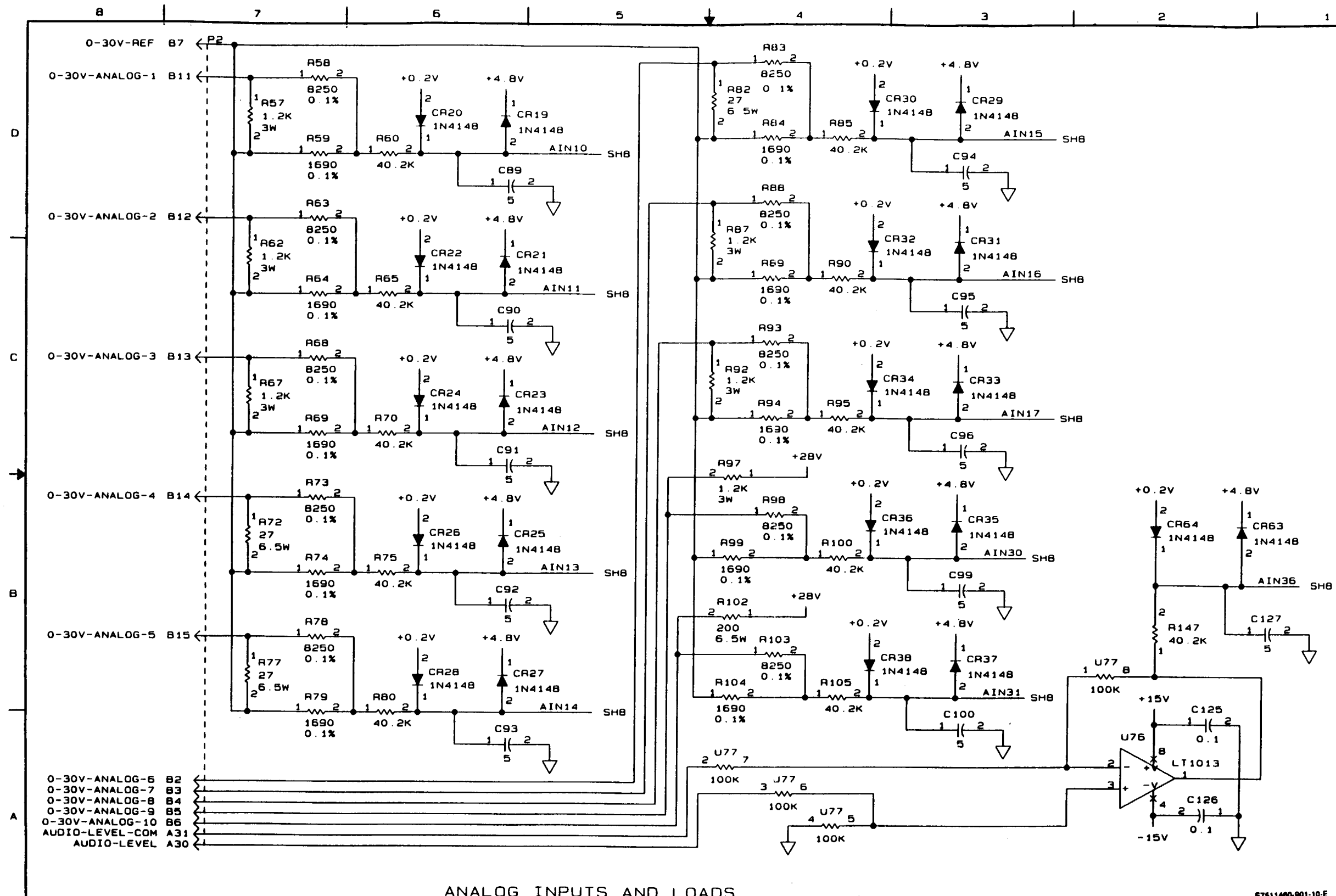
Analog CCA A7 Schematic
Figure 11 (Sheet 3)



OBI OBS SYNCHRO TO DC CONVERTER

E7511400-901-9-E

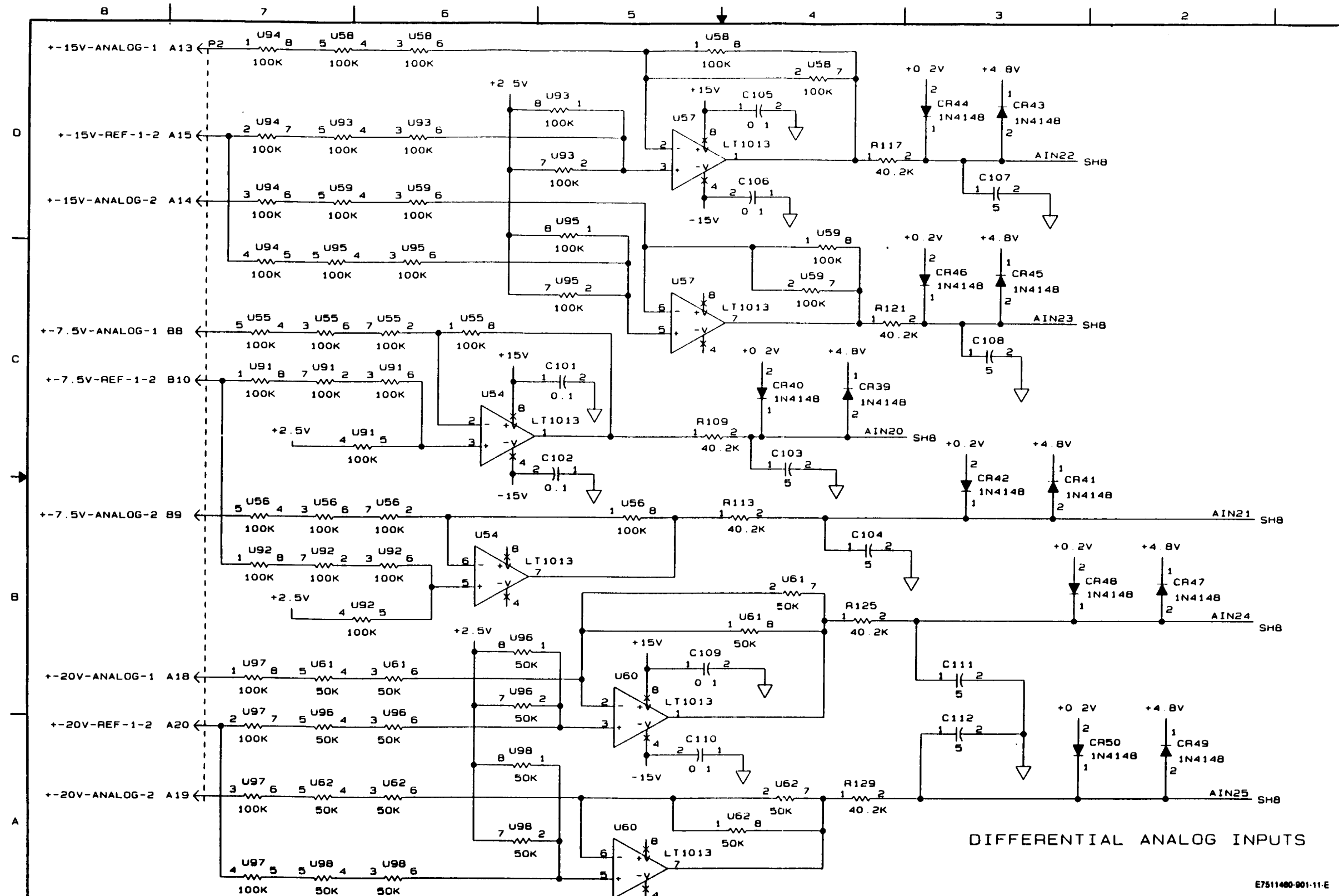
Analog CCA A7 Schematic
Figure 11 (Sheet 4)



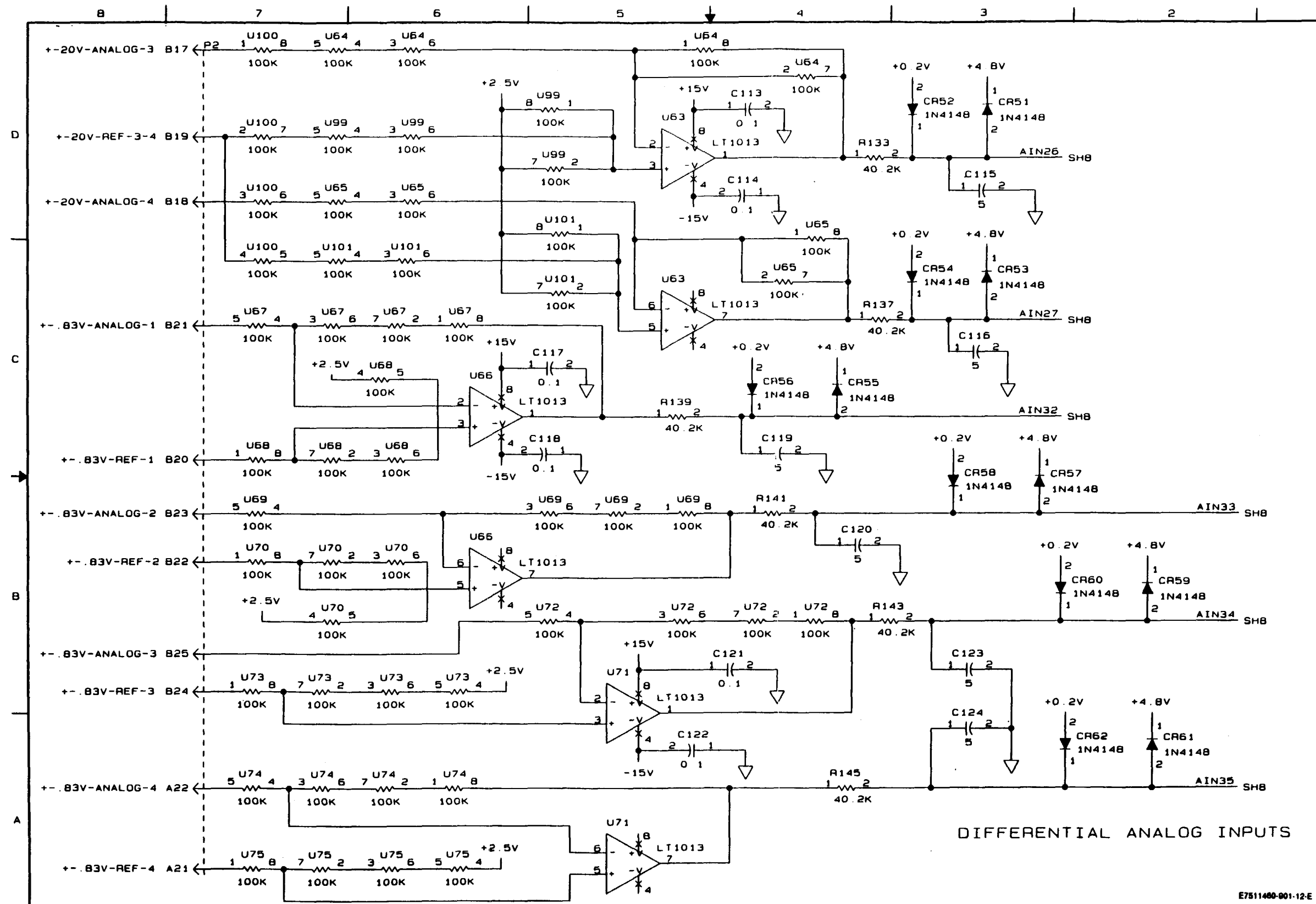
ANALOG INPUTS AND LOADS

E7511400-001-10-E

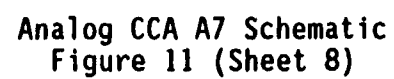
Analog CCA A7 Schematic
Figure 11 (Sheet 5)

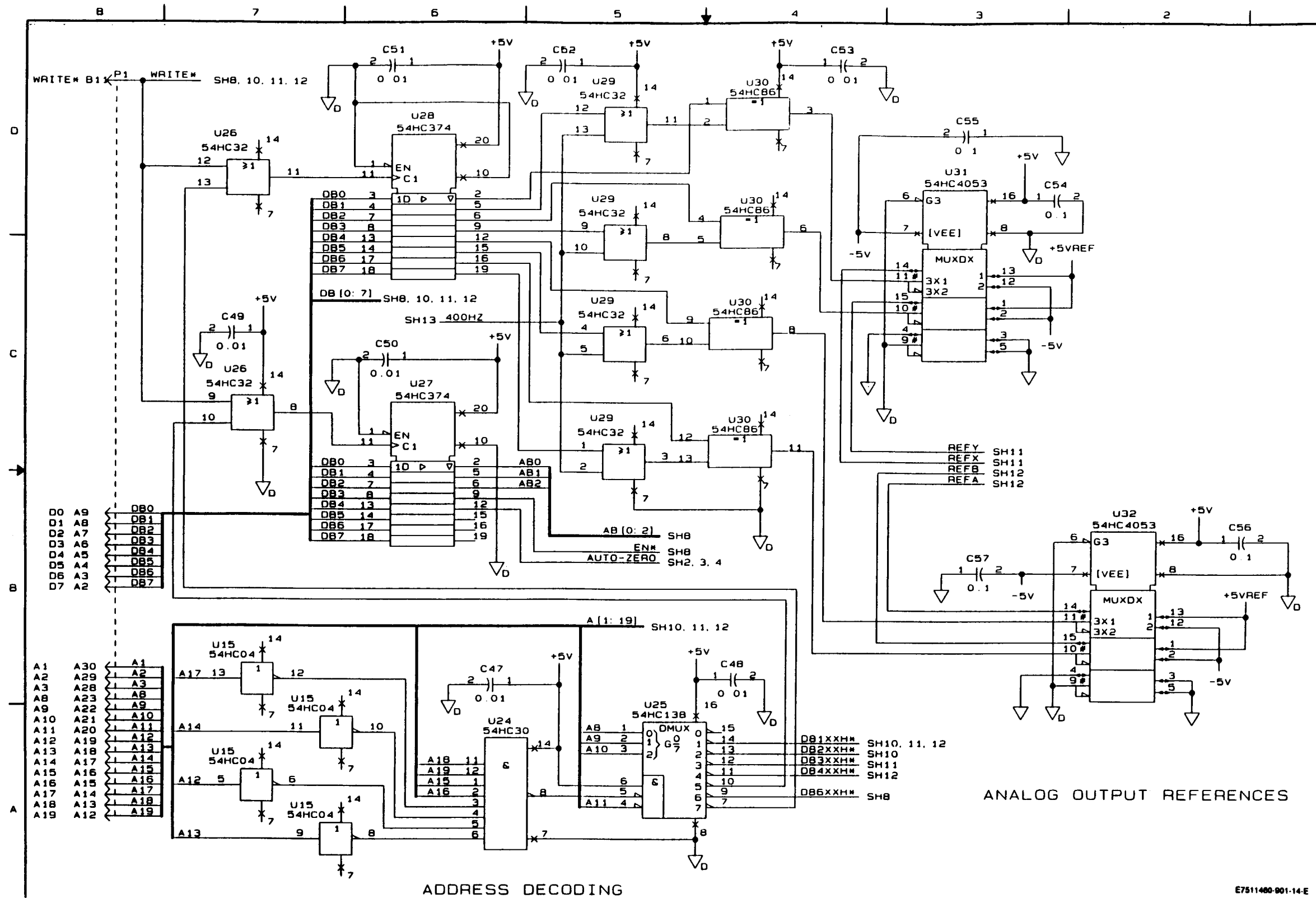


Analog CCA A7 Schematic
Figure 11 (Sheet 6)

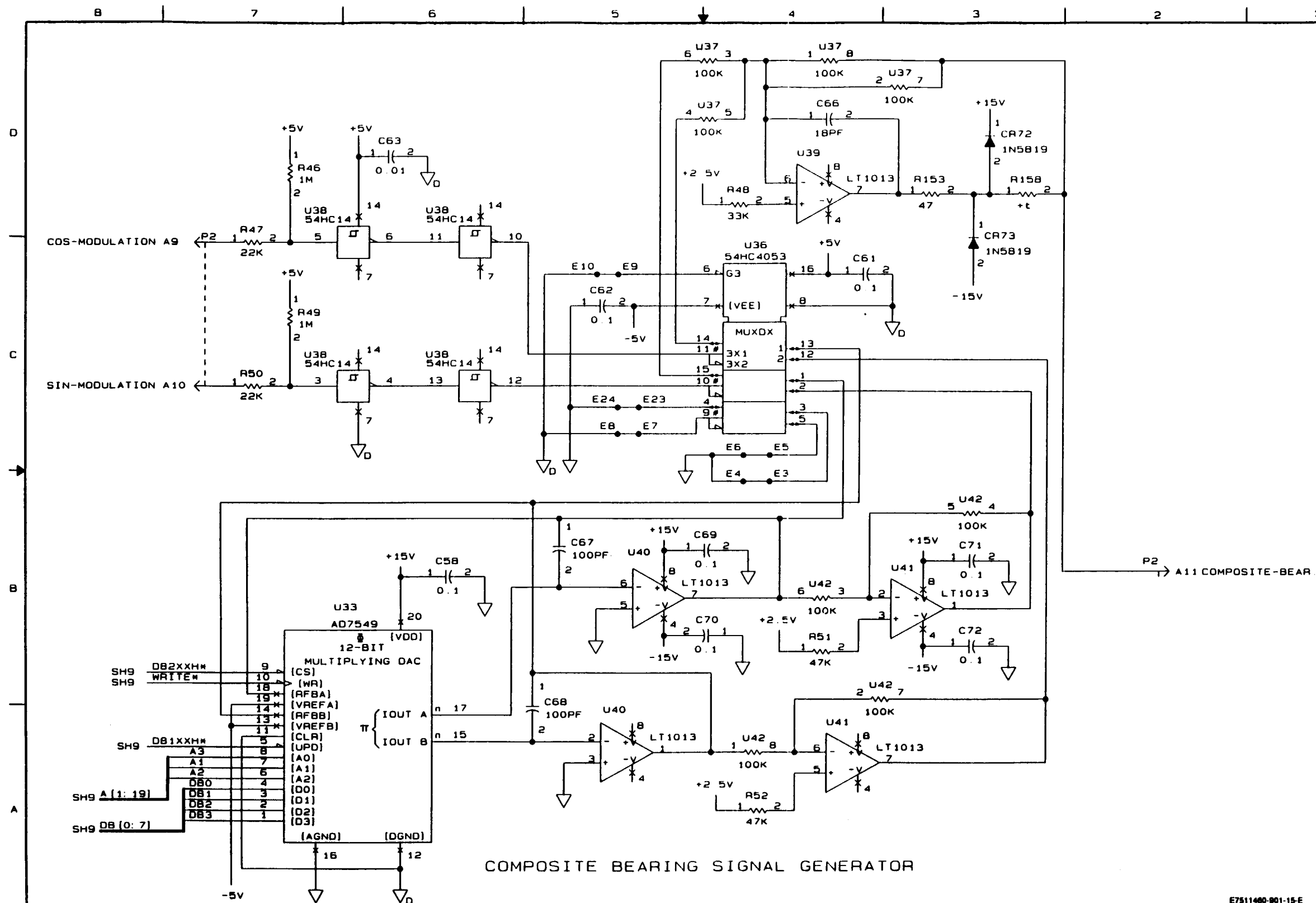


Analog CCA A7 Schematic
Figure 11 (Sheet 7)

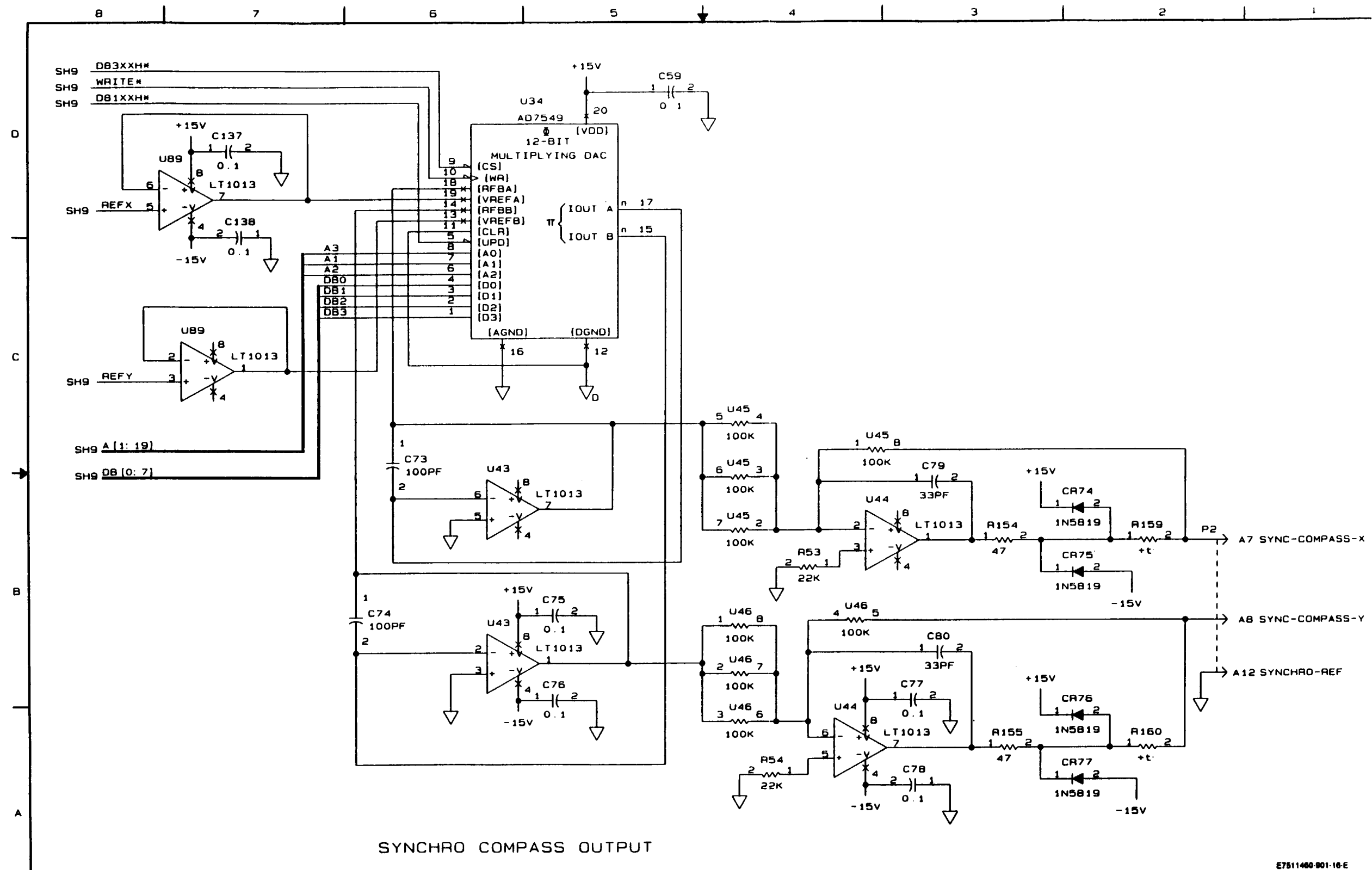




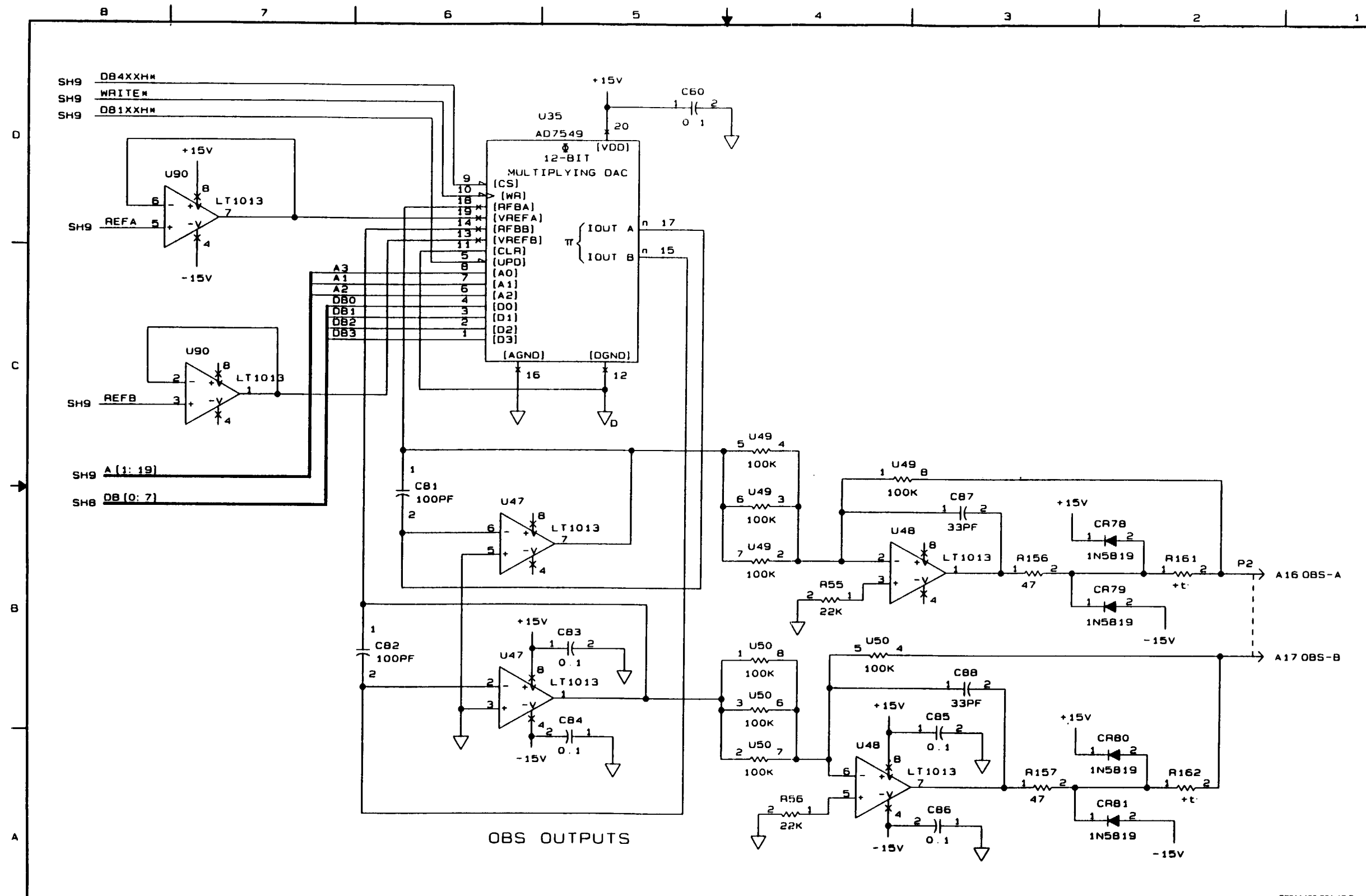
Analog CCA A7 Schematic
Figure 11 (Sheet 9)



Analog CCA A7 Schematic
Figure 11 (Sheet 10)

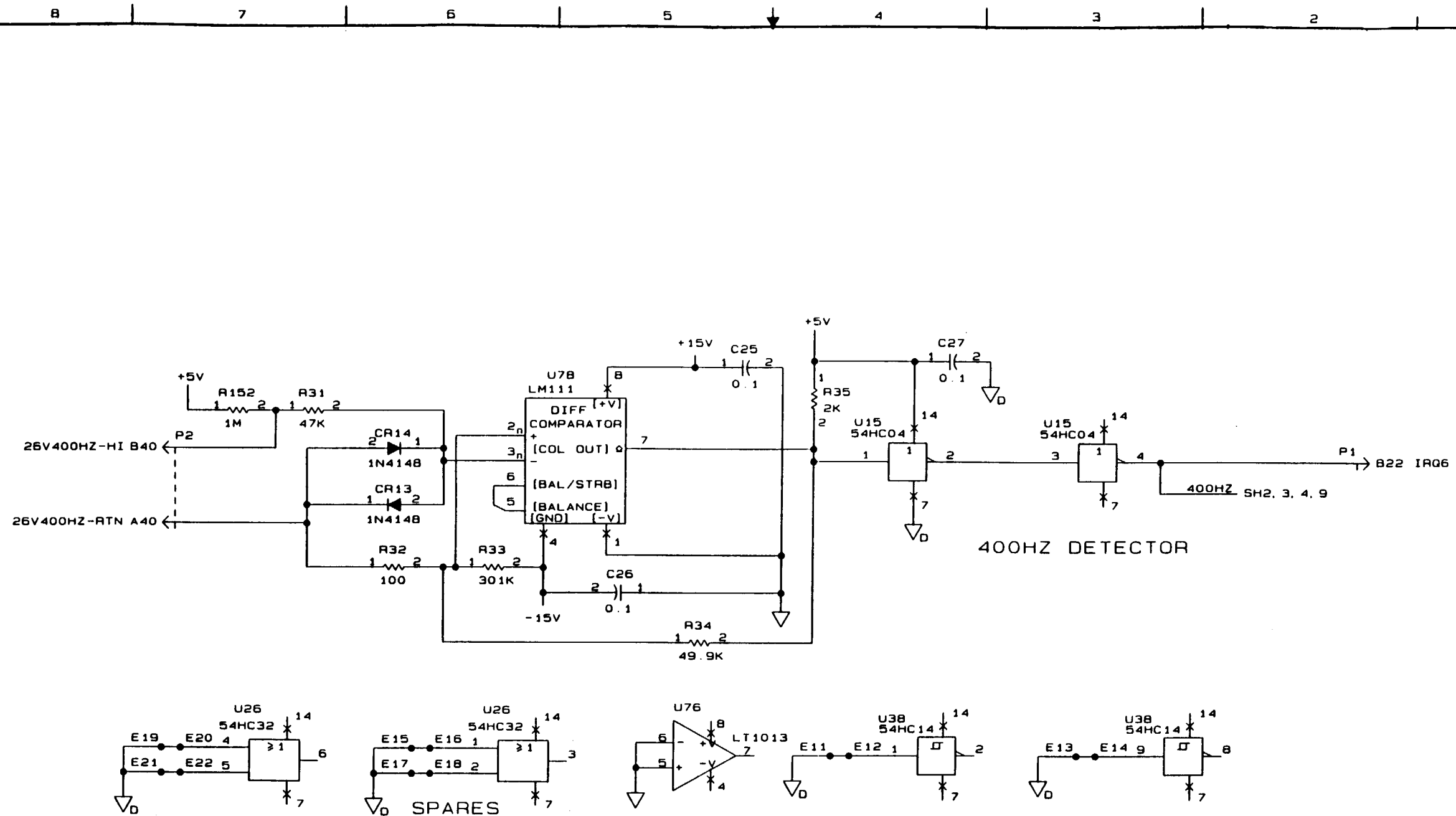


Analog CCA A7 Schematic
Figure 11 (Sheet 11)

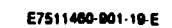


E7511480-901-17-E

Analog CCA A7 Schematic
Figure 11 (Sheet 12)



Analog CCA A7 Schematic
Figure 11 (Sheet 13)



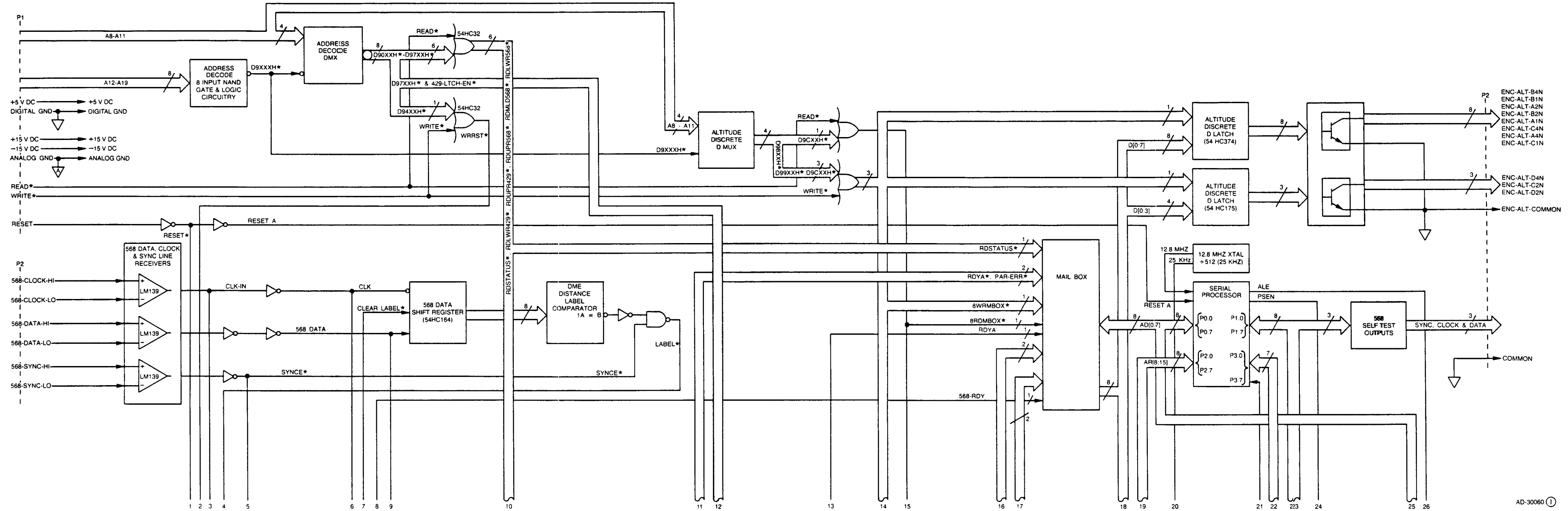
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Revision Code (Arrow No.)	Revision Description	Effectivity
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for Figure 12

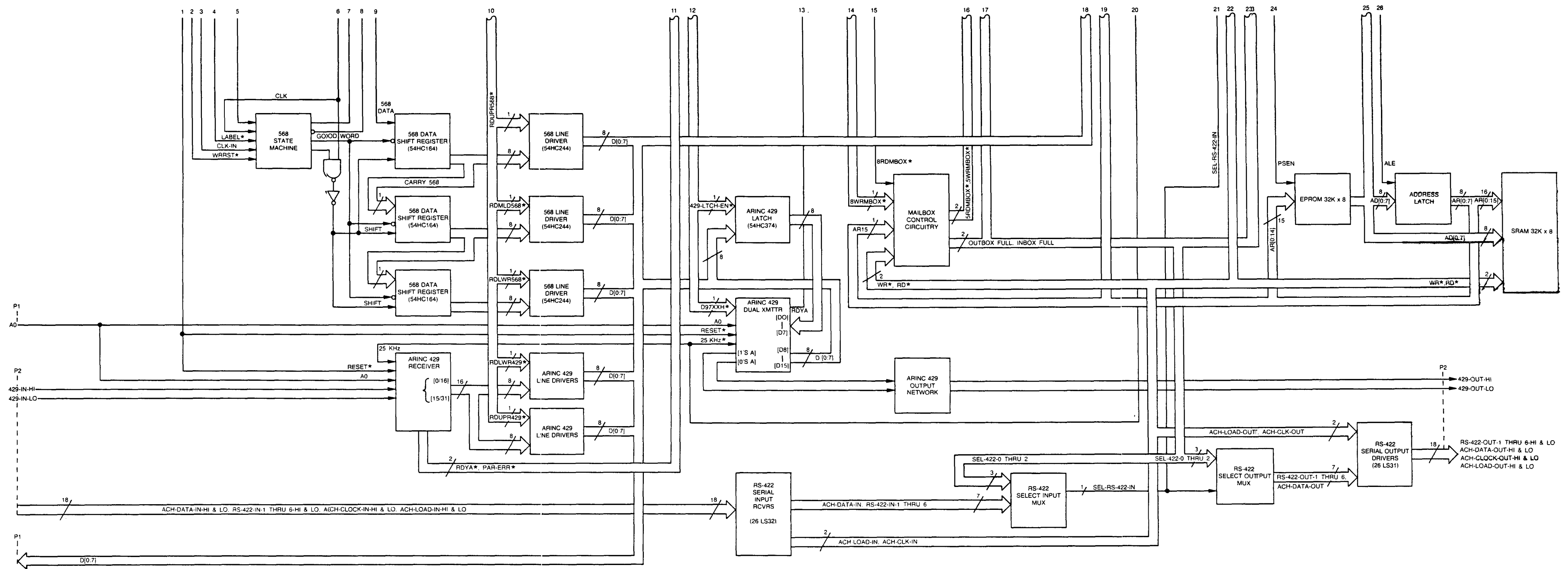
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P/O SERIAL INTERFACE CCA A8



AD-30060 ①

Serial Interface CCA A8 Block Diagram
Figure 12 (Sheet 1 of 2)



P/O SERIAL INTERFACE CCA A8

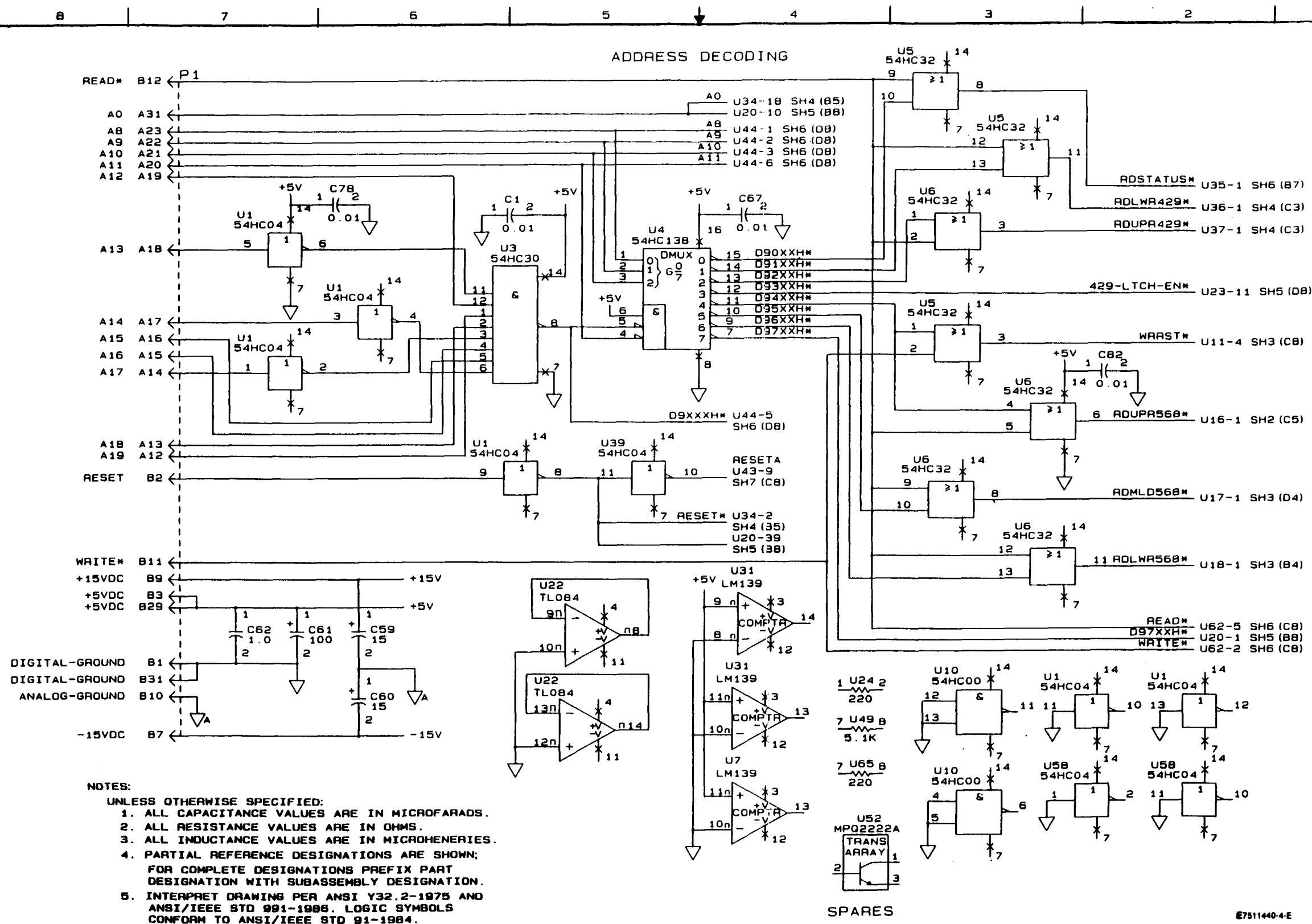
AD-30060 (1)

Serial Interface CCA A8 Block Diagram
Figure 12 (Sheet 2)

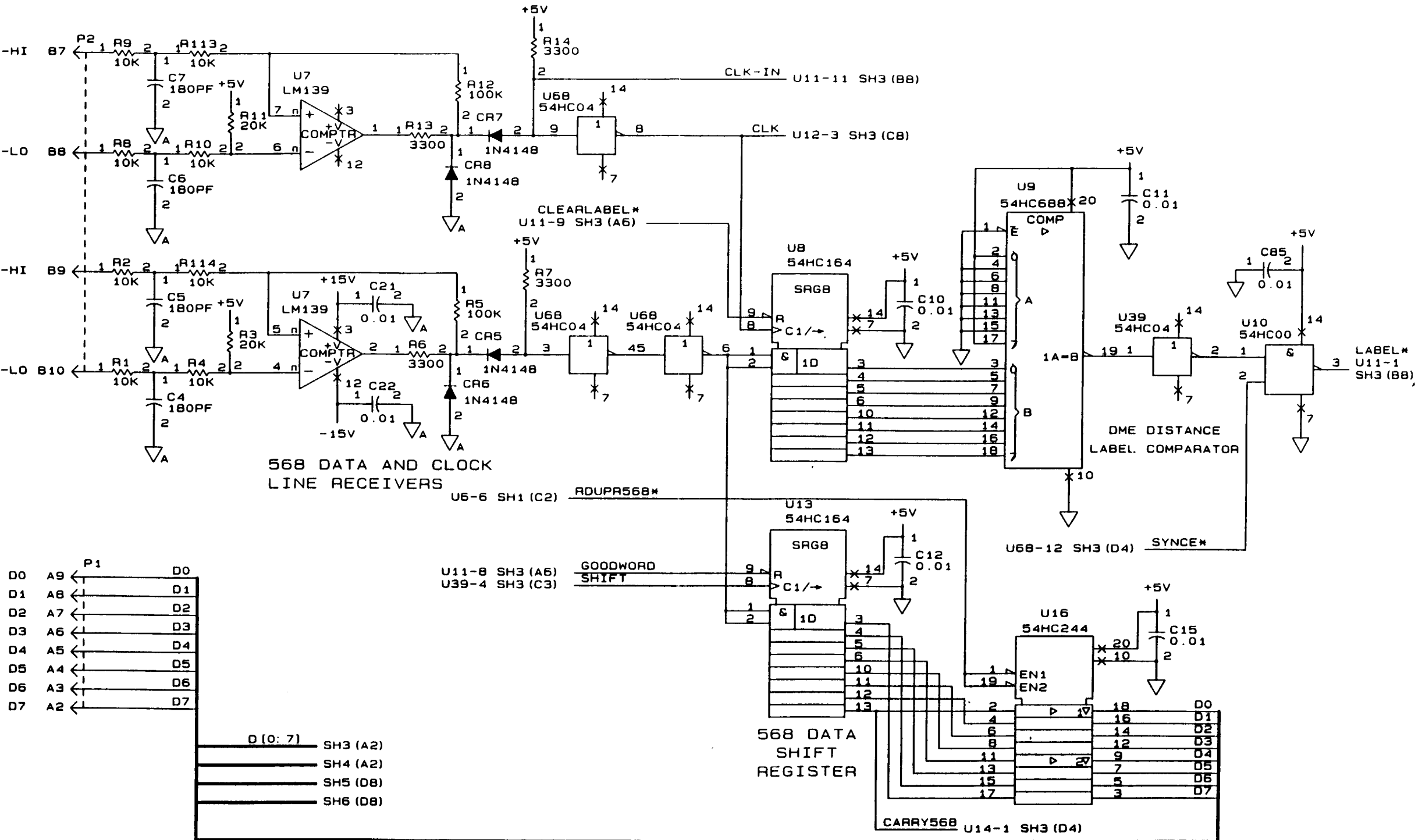
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Revision Reference Sheet
for Figure 13

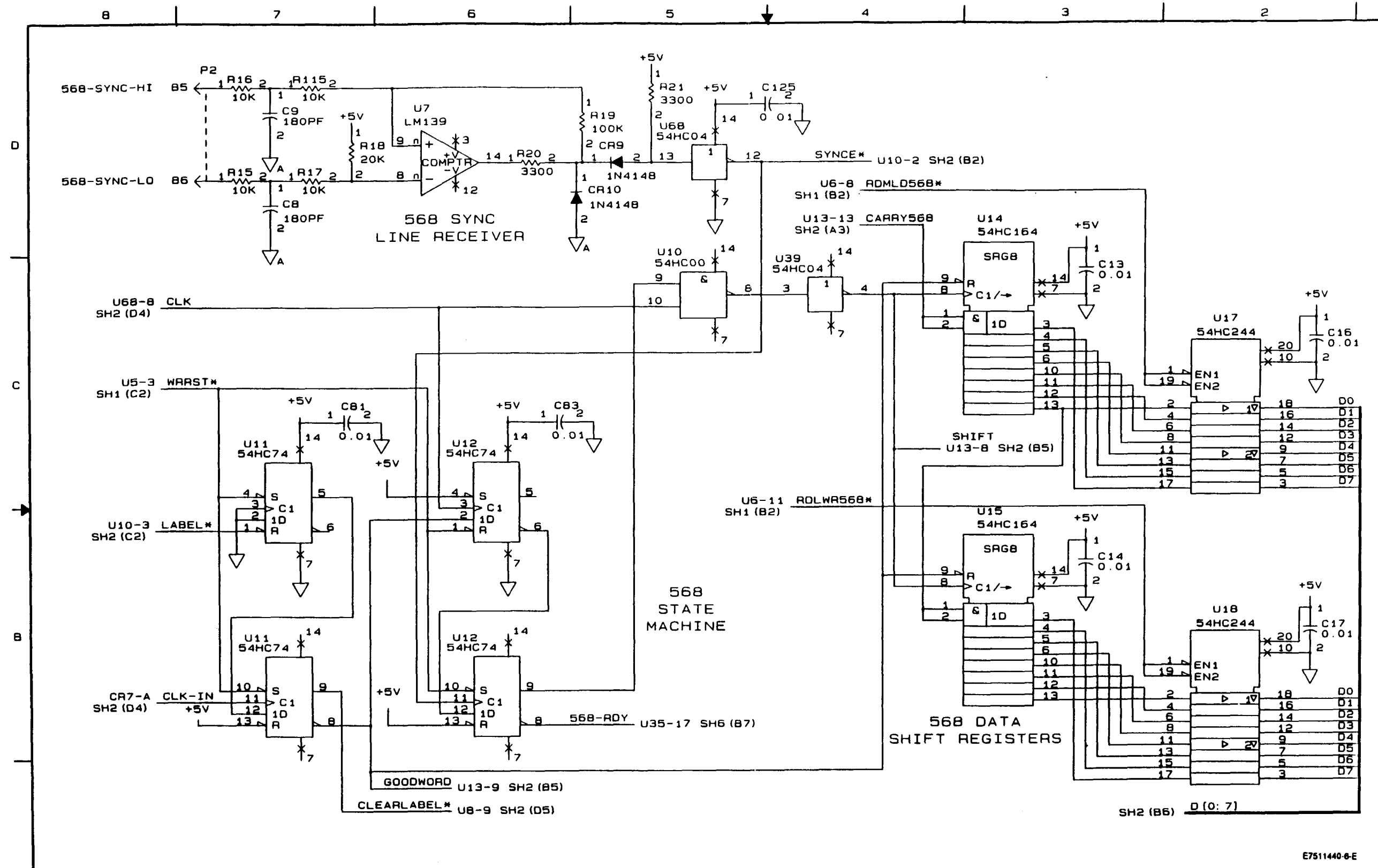
2-2
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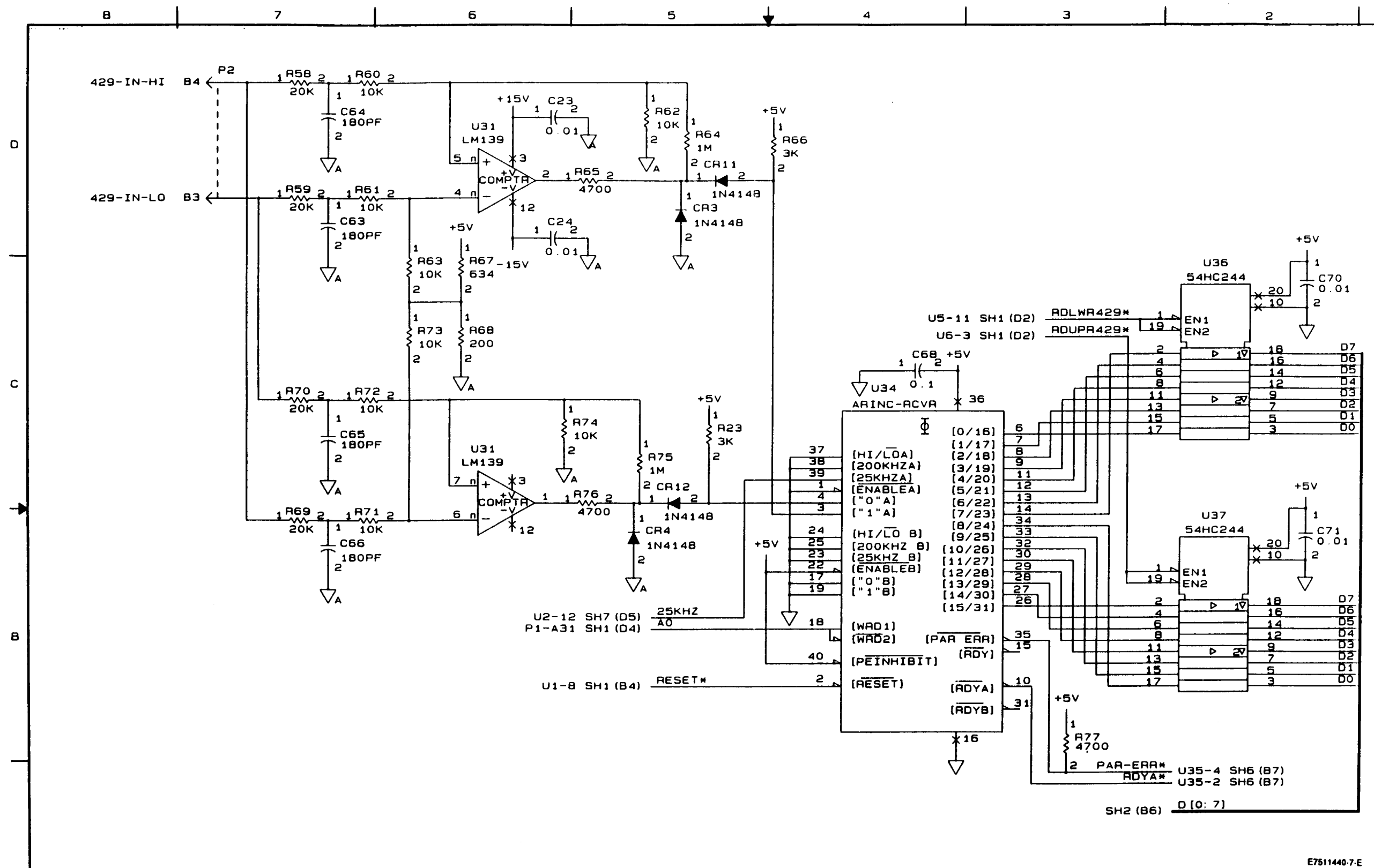
Serial Interface CCA A8 Schematic
Figure 13 (Sheet 1 of 10)



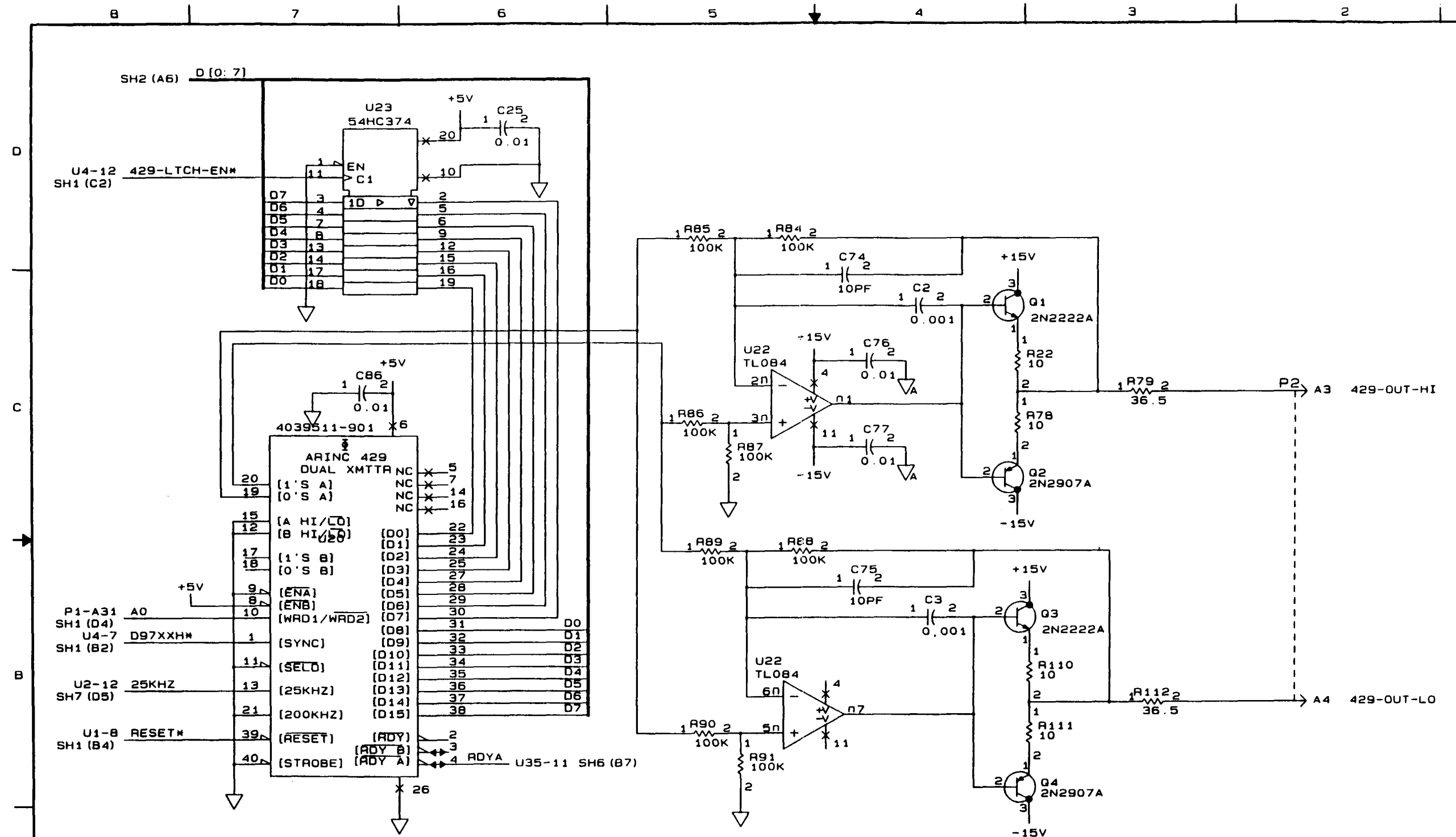
Serial Interface CCA A8 Schematic
Figure 13 (Sheet 2)



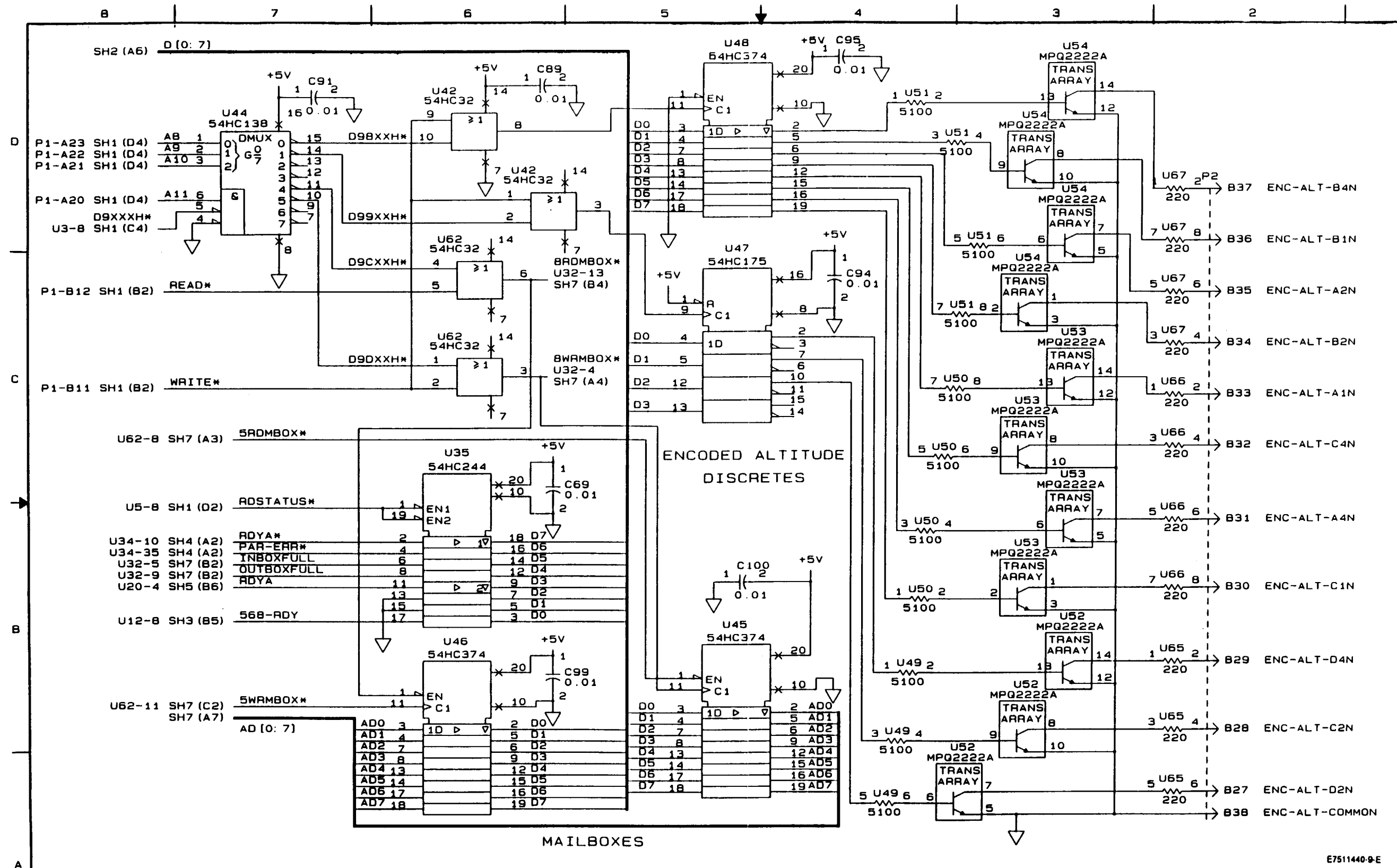
Serial Interface CCA A8 Schematic
Figure 13 (Sheet 3)



Serial Interface CCA A8 Schematic
Figure 13 (Sheet 4)



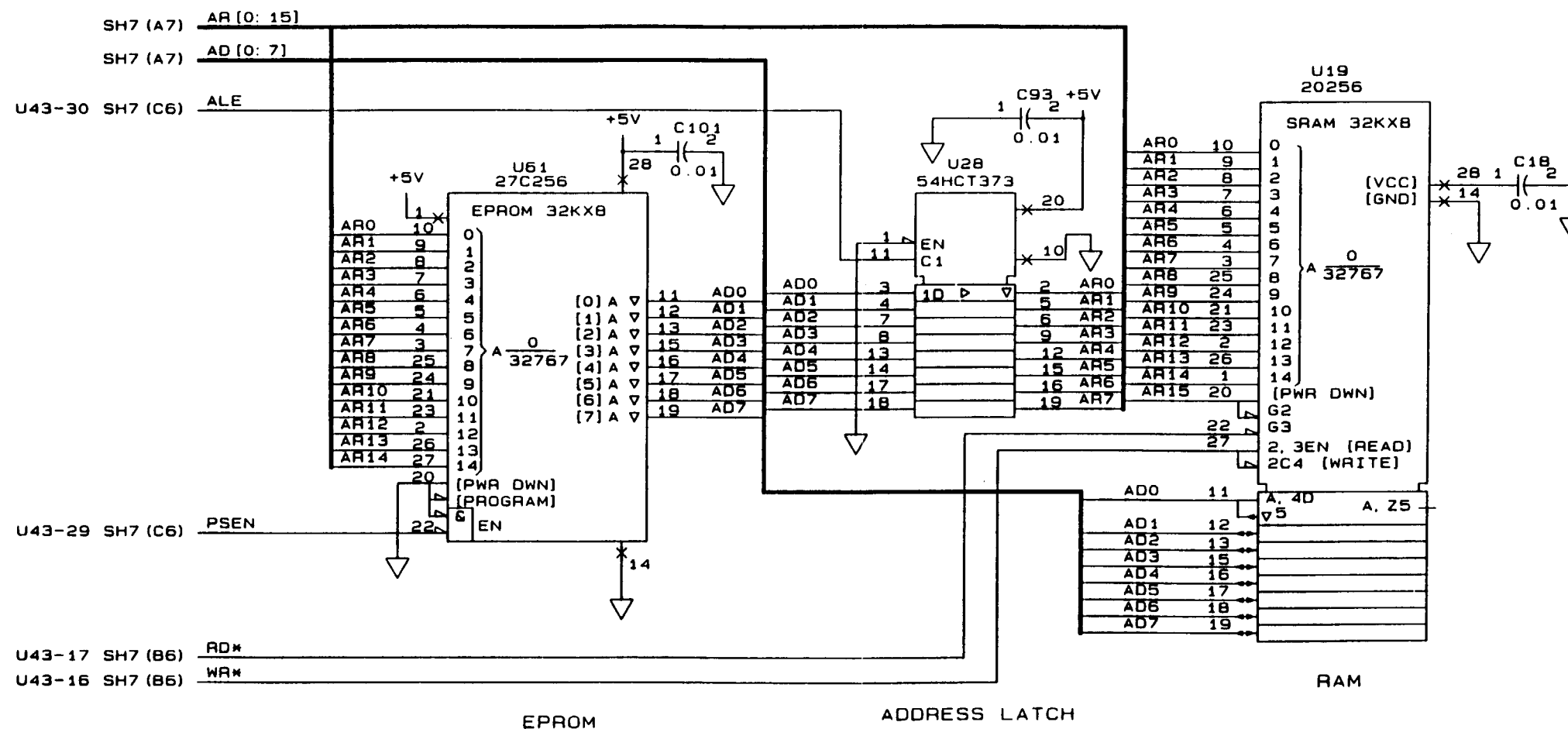
Serial Interface CCA A8 Schematic
Figure 13 (Sheet 5)



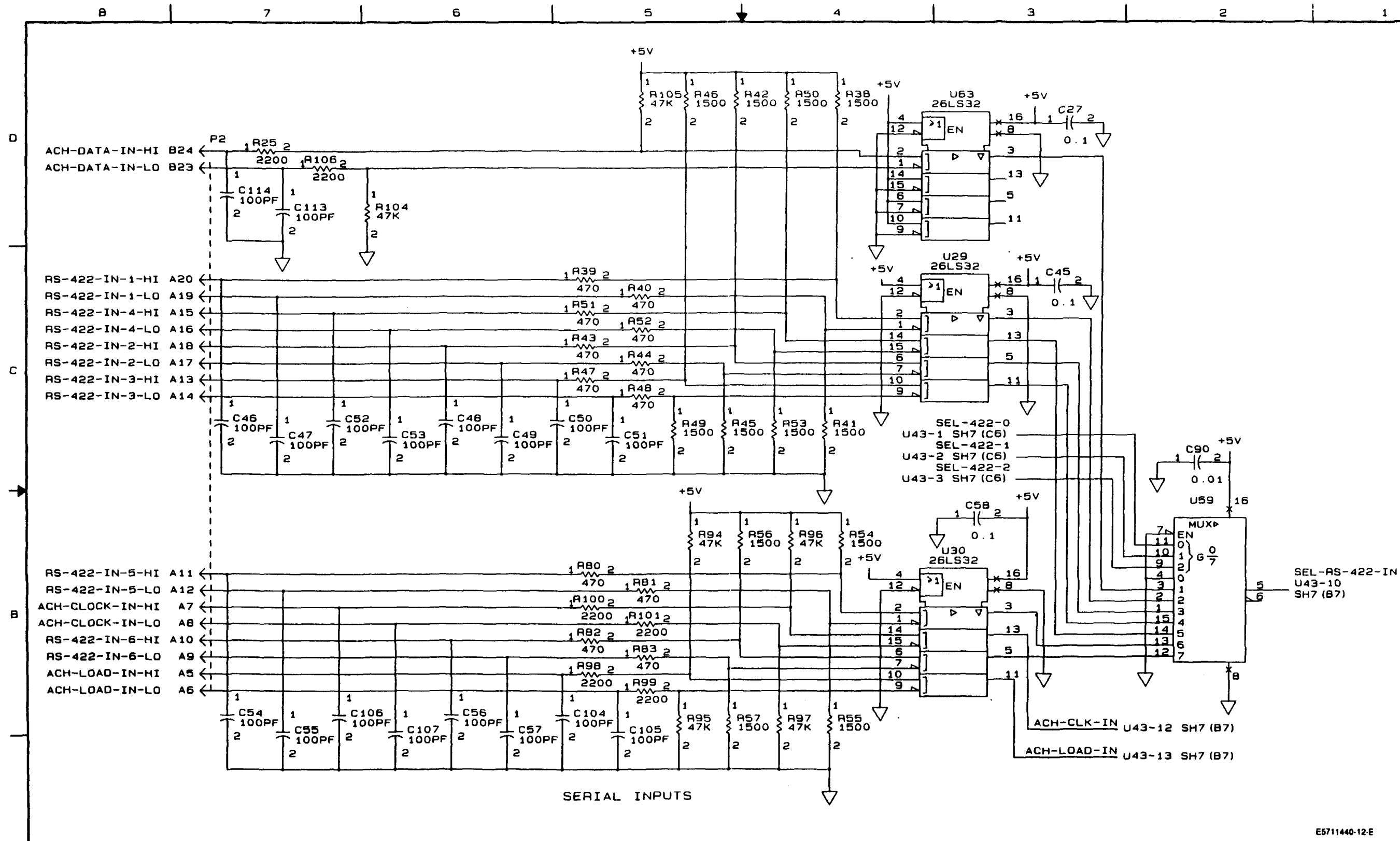
Serial Interface CCA A8 Schematic
Figure 13 (Sheet 6)



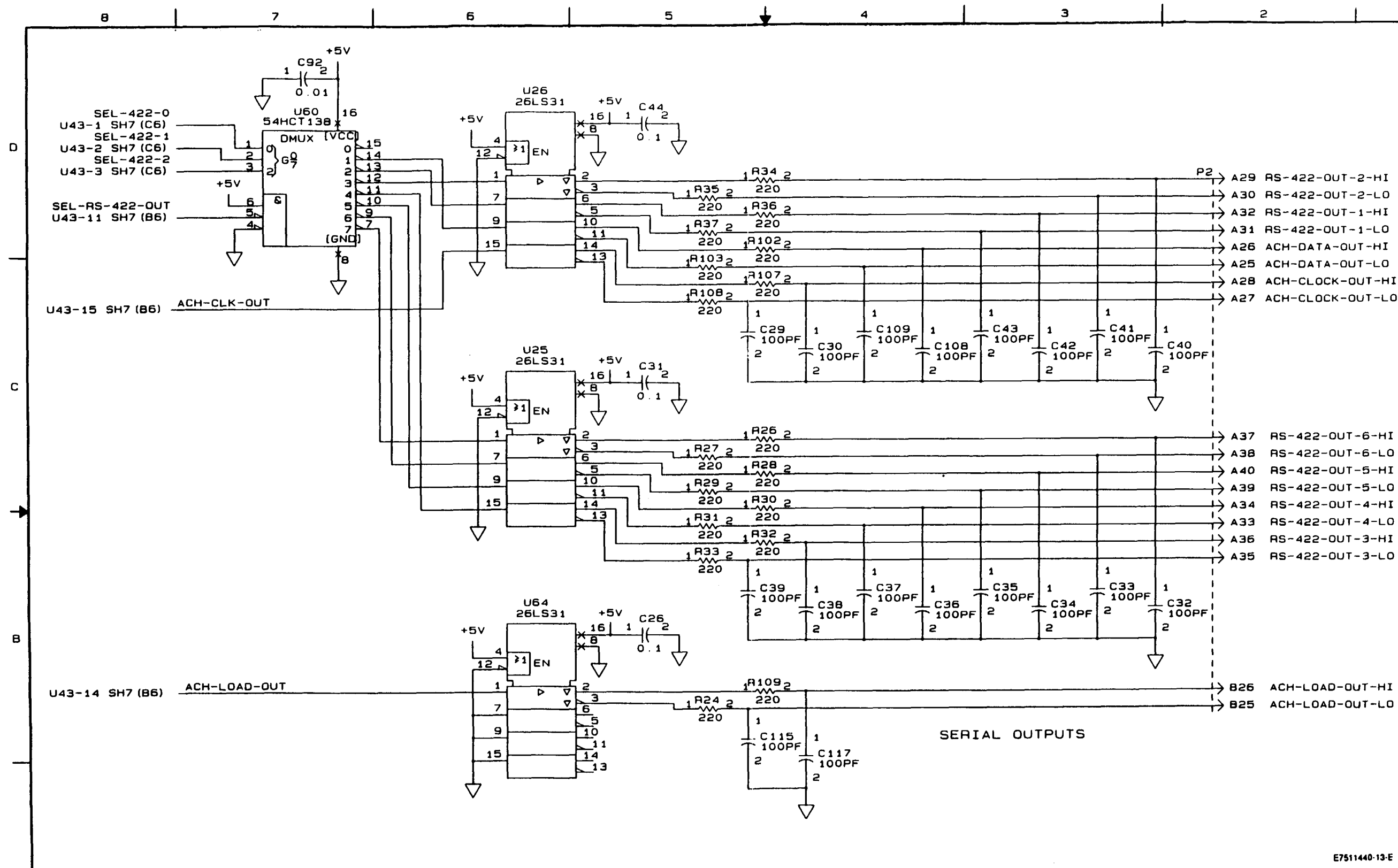
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Serial Interface CCA A8 Schematic
Figure 13 (Sheet 8)



Serial Interface CCA A8 Schematic
Figure 13 (Sheet 9)



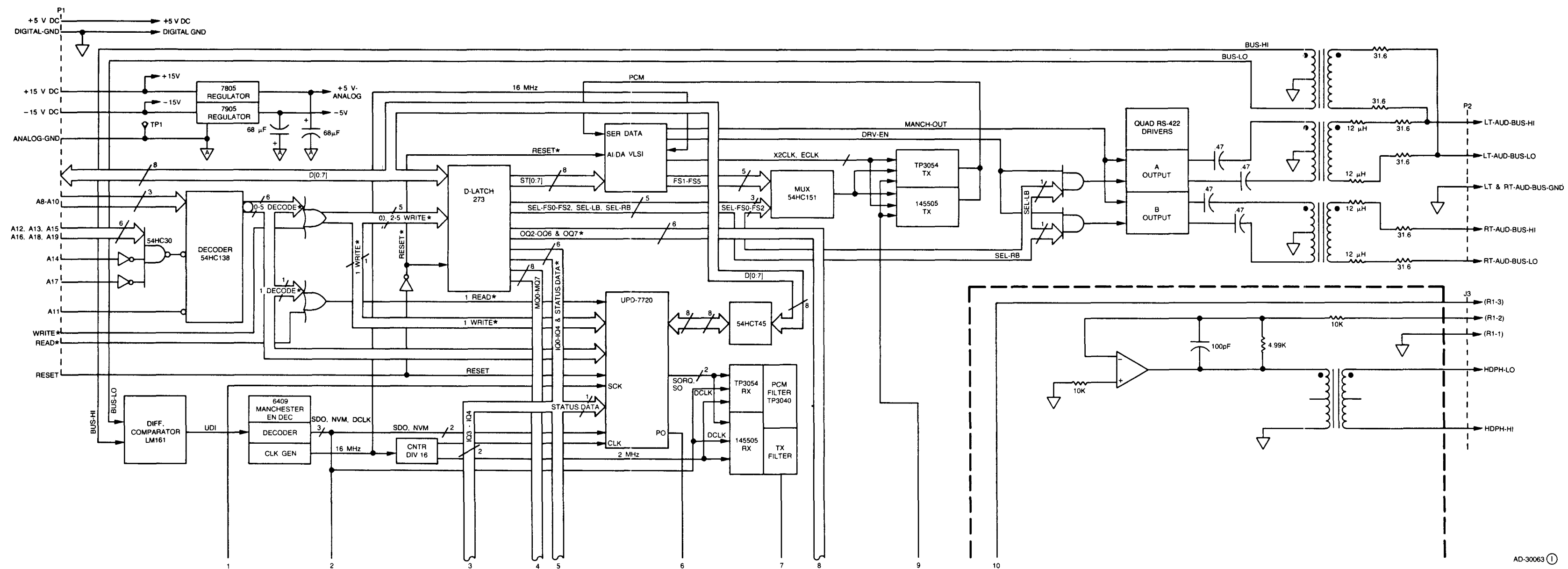
Serial Interface CCA A8 Schematic
Figure 13 (Sheet 10)

Revision Code (Arrow No.)	Revision Description	Effectivity
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for Figure 14

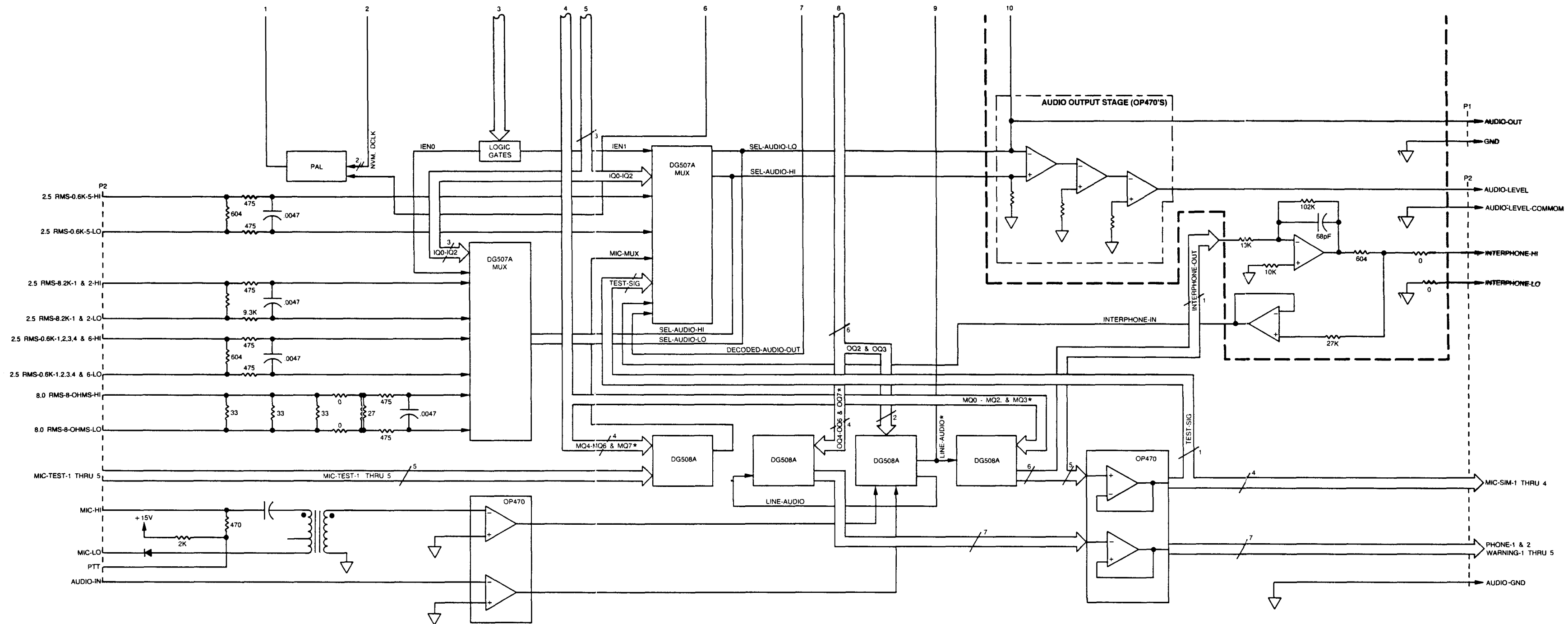
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P/O AUDIO INTERFACE A10



AD-30063 ①

Audio Interface CCA A10 Block Diagram
Figure 14 (Sheet 1 of 2)



P/O AUDIO INTERFACE CCA A10

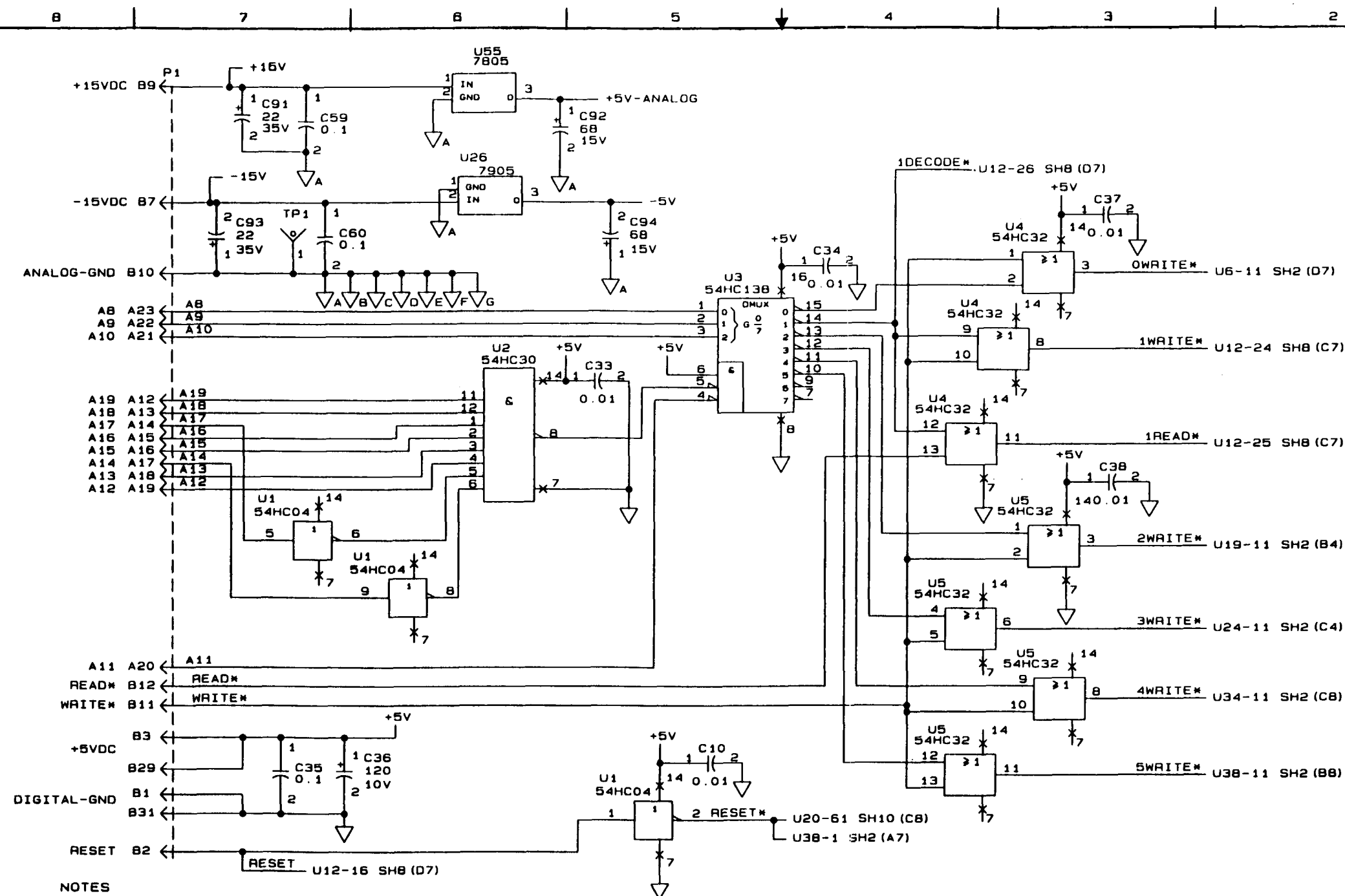
AD-30063 ①

Audio Interface CCA A10 Block Diagram
Figure 14 (Sheet 2)

Revision Code (Arrow No.)	Revision Description	Effectivity
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Revision Reference Sheet
for Figure 15

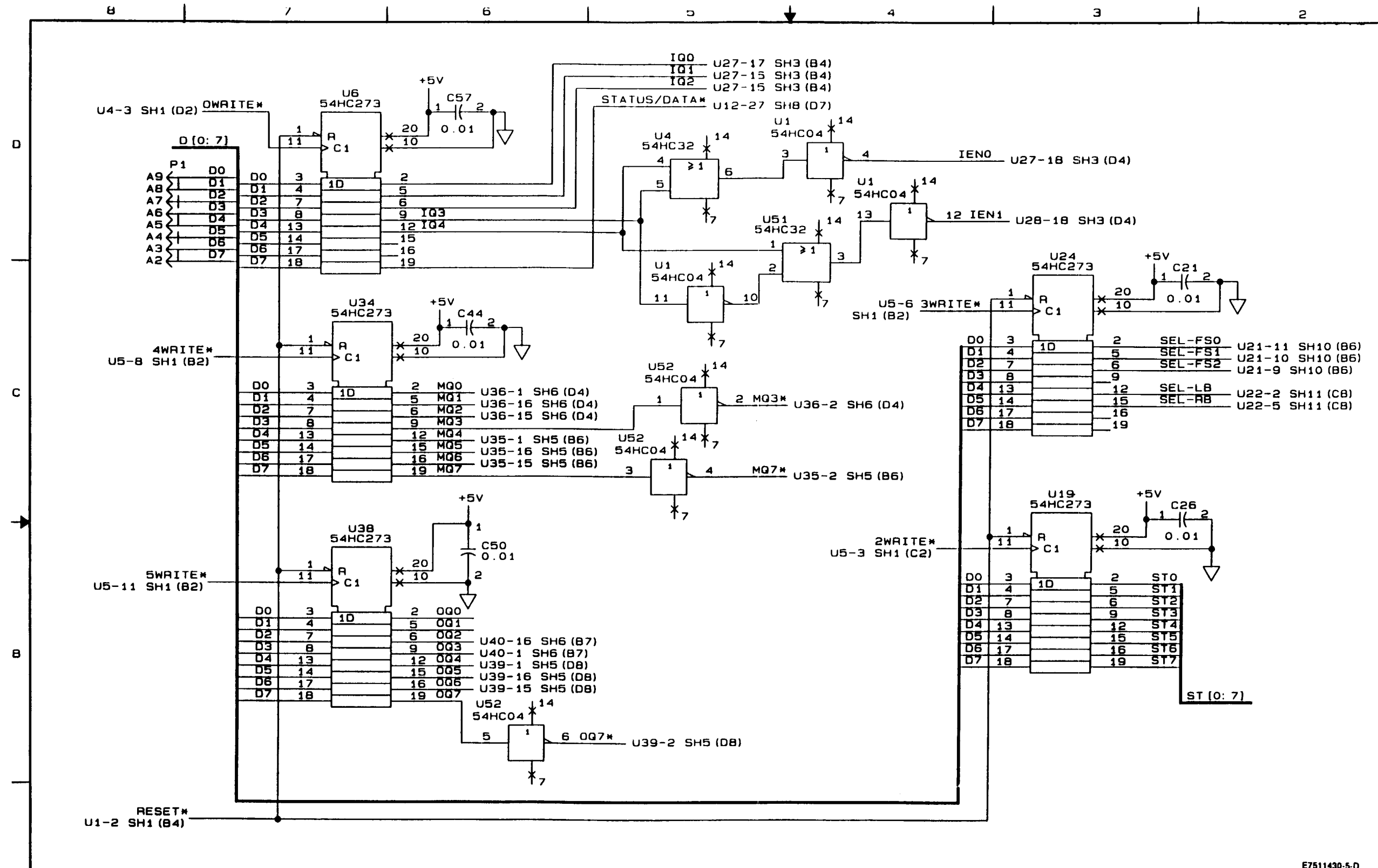
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NOTES

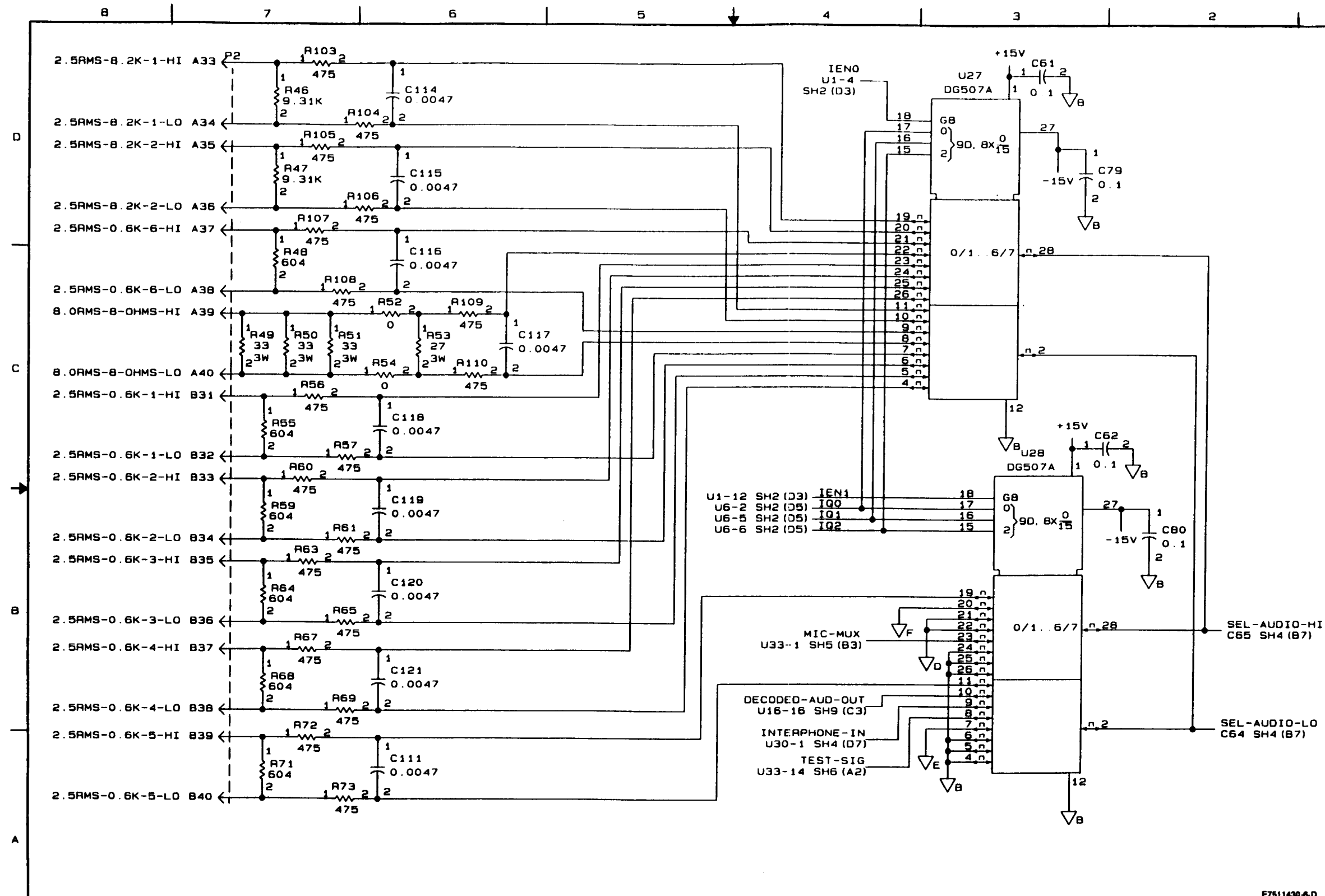
- UNLESS OTHERWISE SPECIFIED:
1. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
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 5. INTERPRET DRAWING PER ANSI Y32.2-1975 AND
ANSI/IEEE STD 991-1986. LOGIC SYMBOLS
CONFORM TO ANSI/IEEE STD 91-1984.
 6. * INDICATES PROVISIONAL COMPONENTS; SEE
PARTS LIST FOR APPLICATIONS.

Audio Interface CCA A10 Schematic
Figure 15 (Sheet 1 of 11)

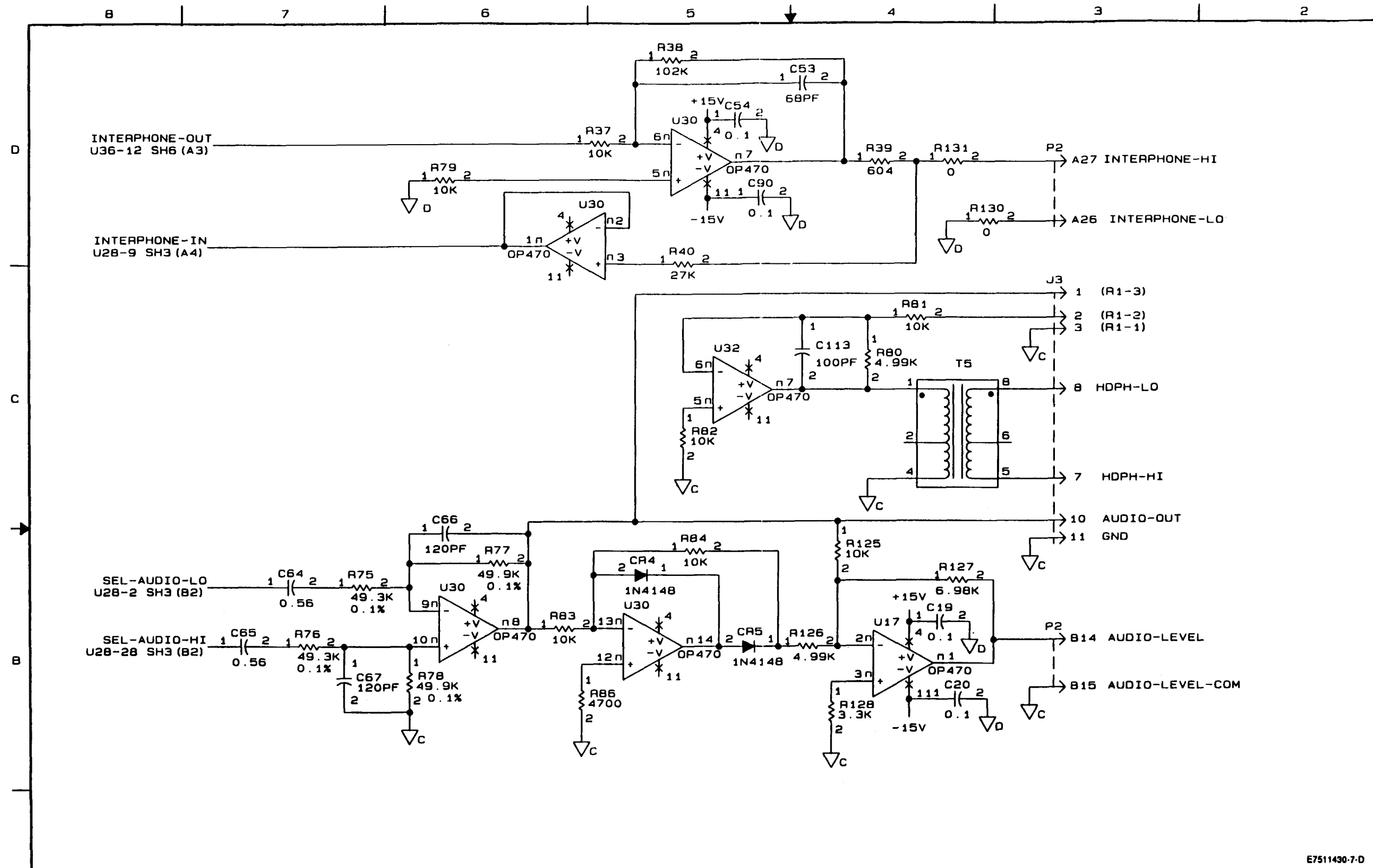


E7511430-5-D

Audio Interface CCA A10 Schematic
Figure 15 (Sheet 2)

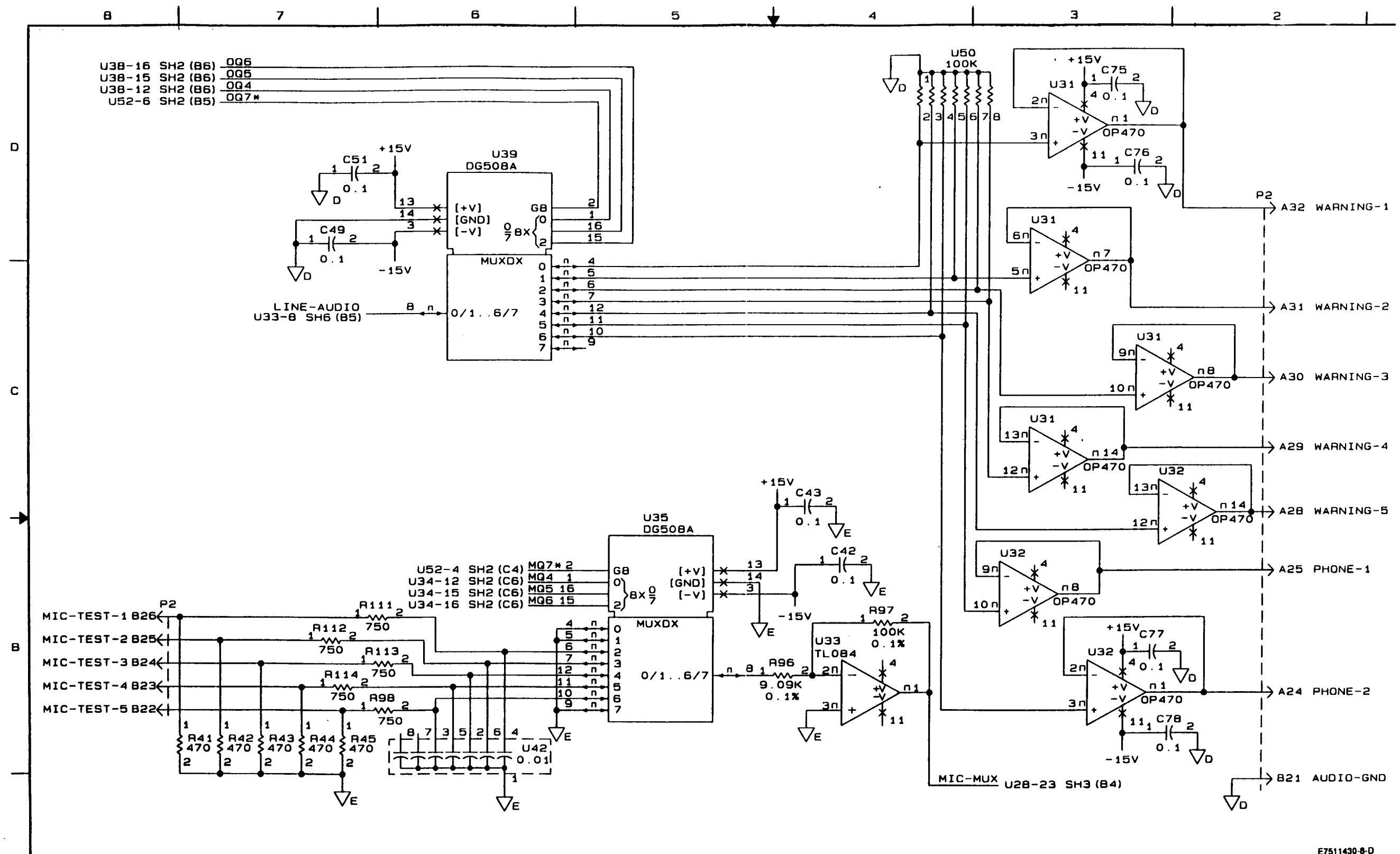


Audio Interface CCA A10 Schematic
Figure 15 (Sheet 3)



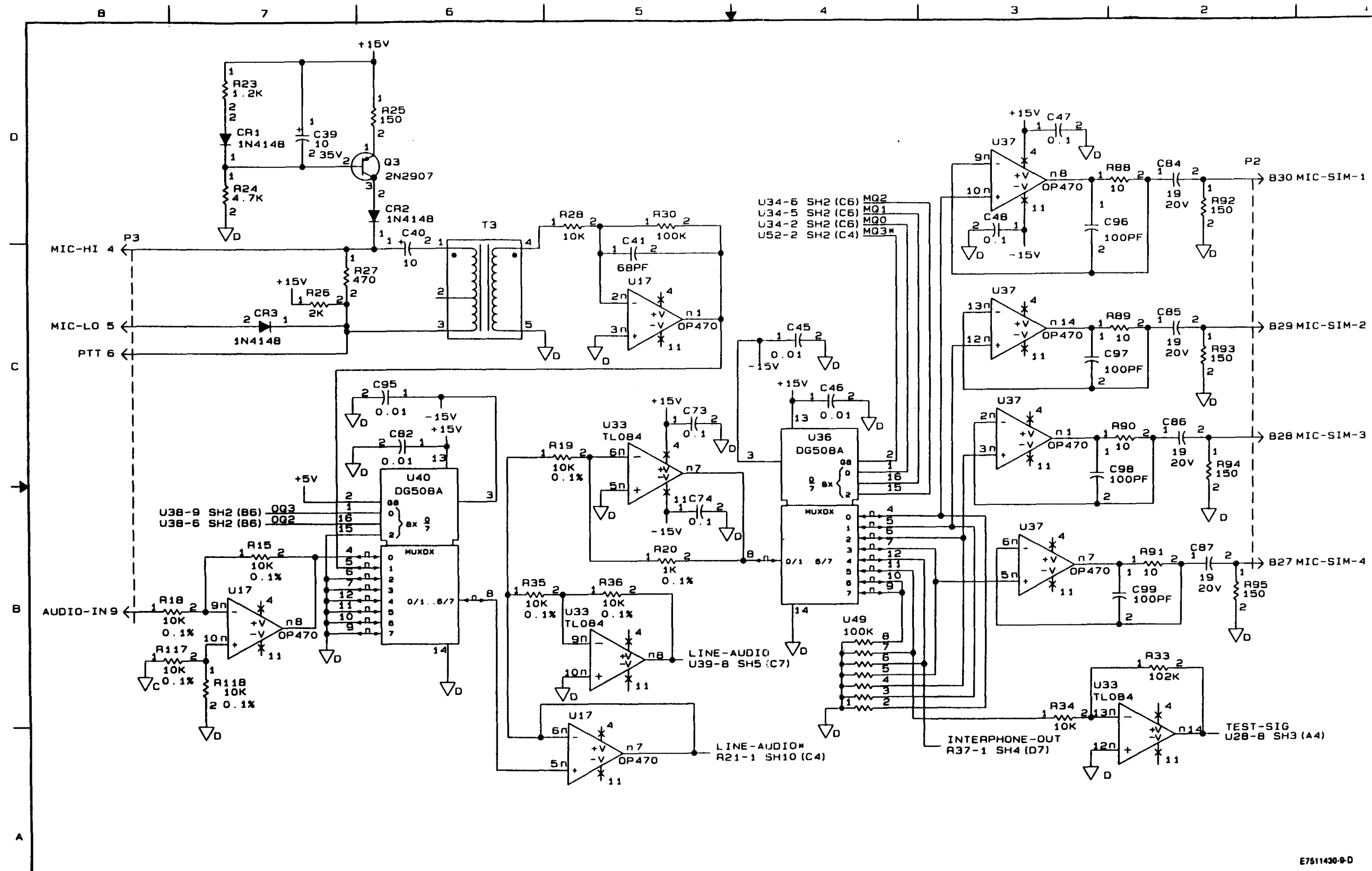
E7511430-7-D

Audio Interface CCA A10 Schematic
Figure 15 (Sheet 4)



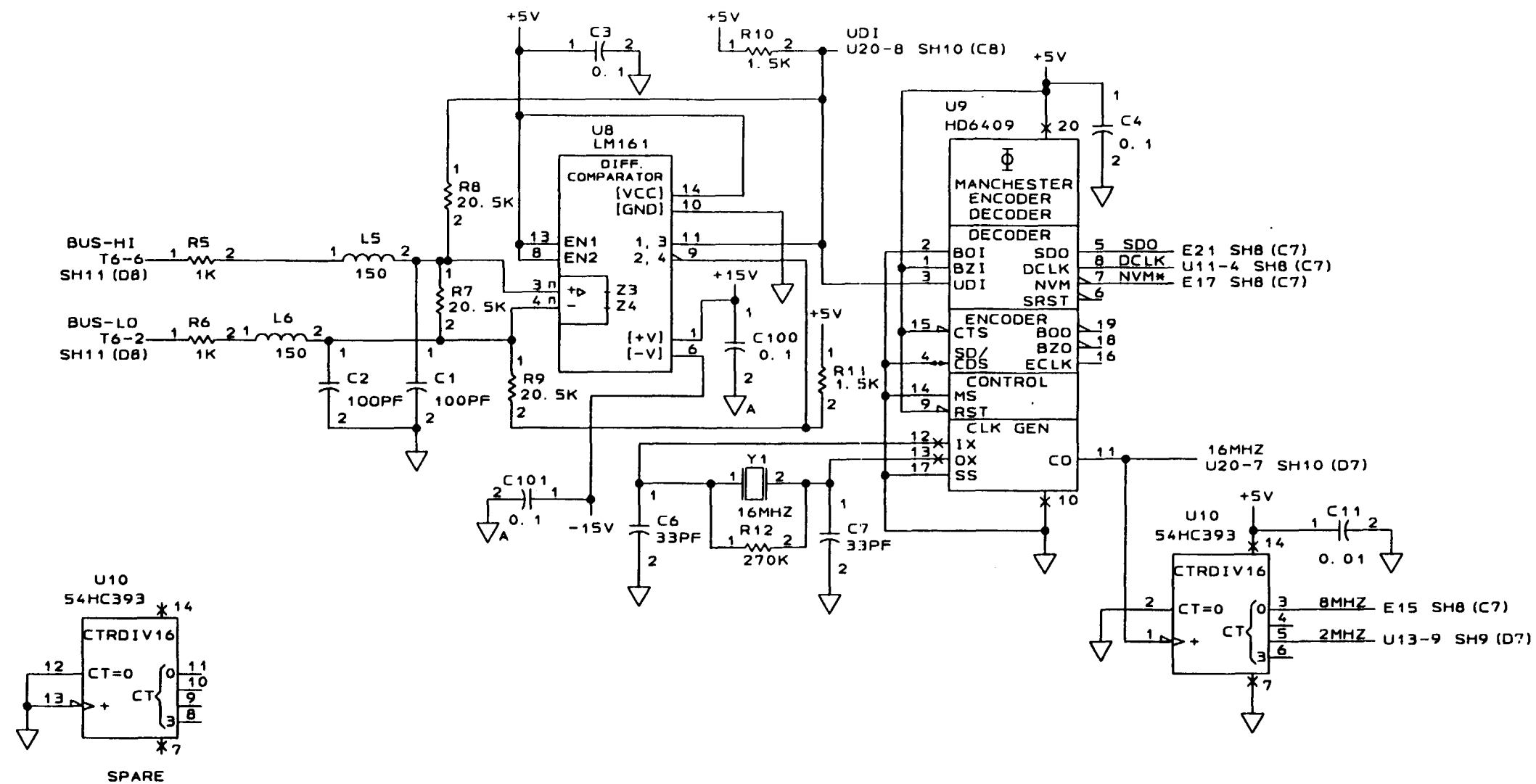
E7511430-8-D

Audio Interface CCA A10 Schematic
Figure 15 (Sheet 5)

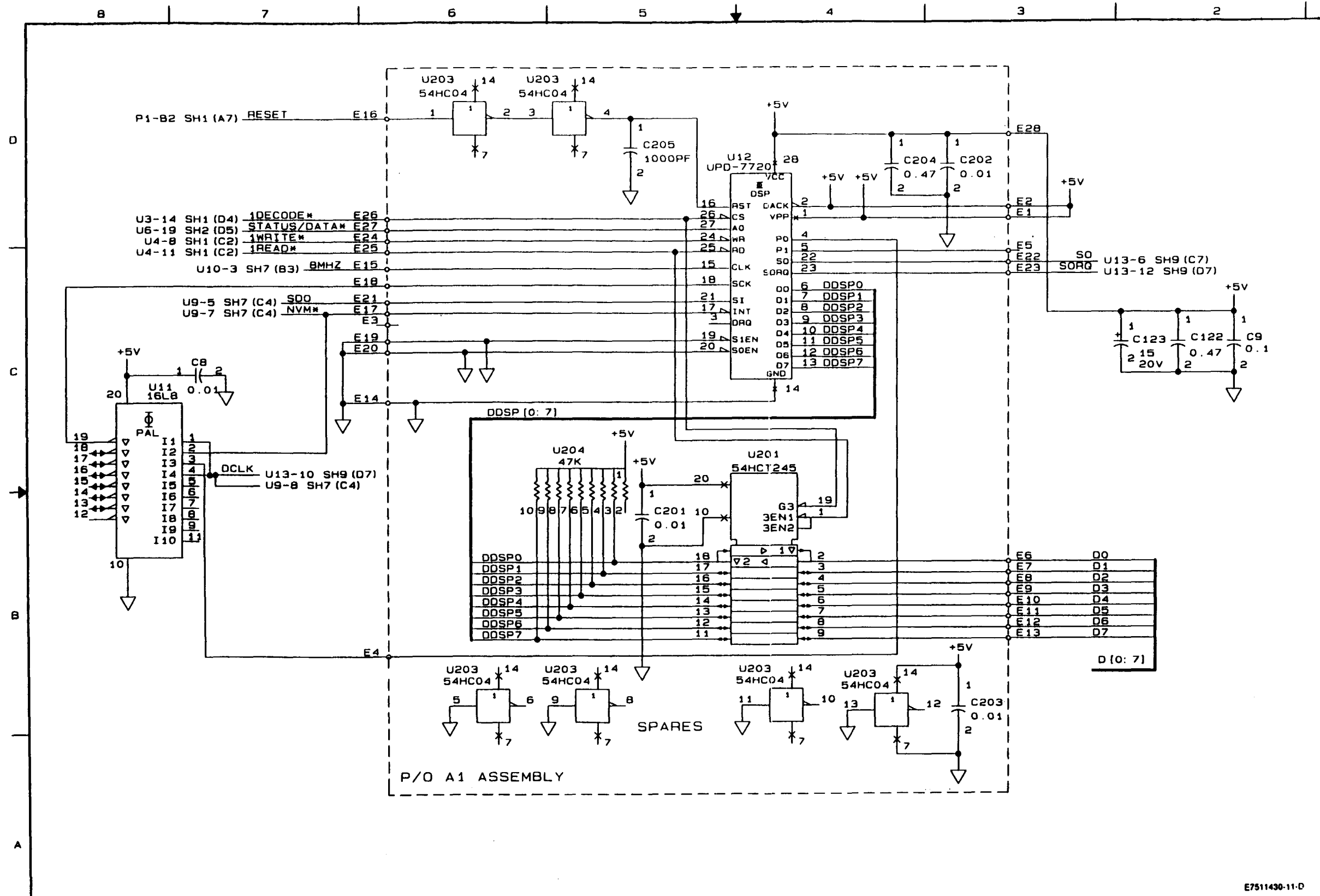


E7511430-9-D

Audio Interface CCA A10 Schematic
Figure 15 (Sheet 6)

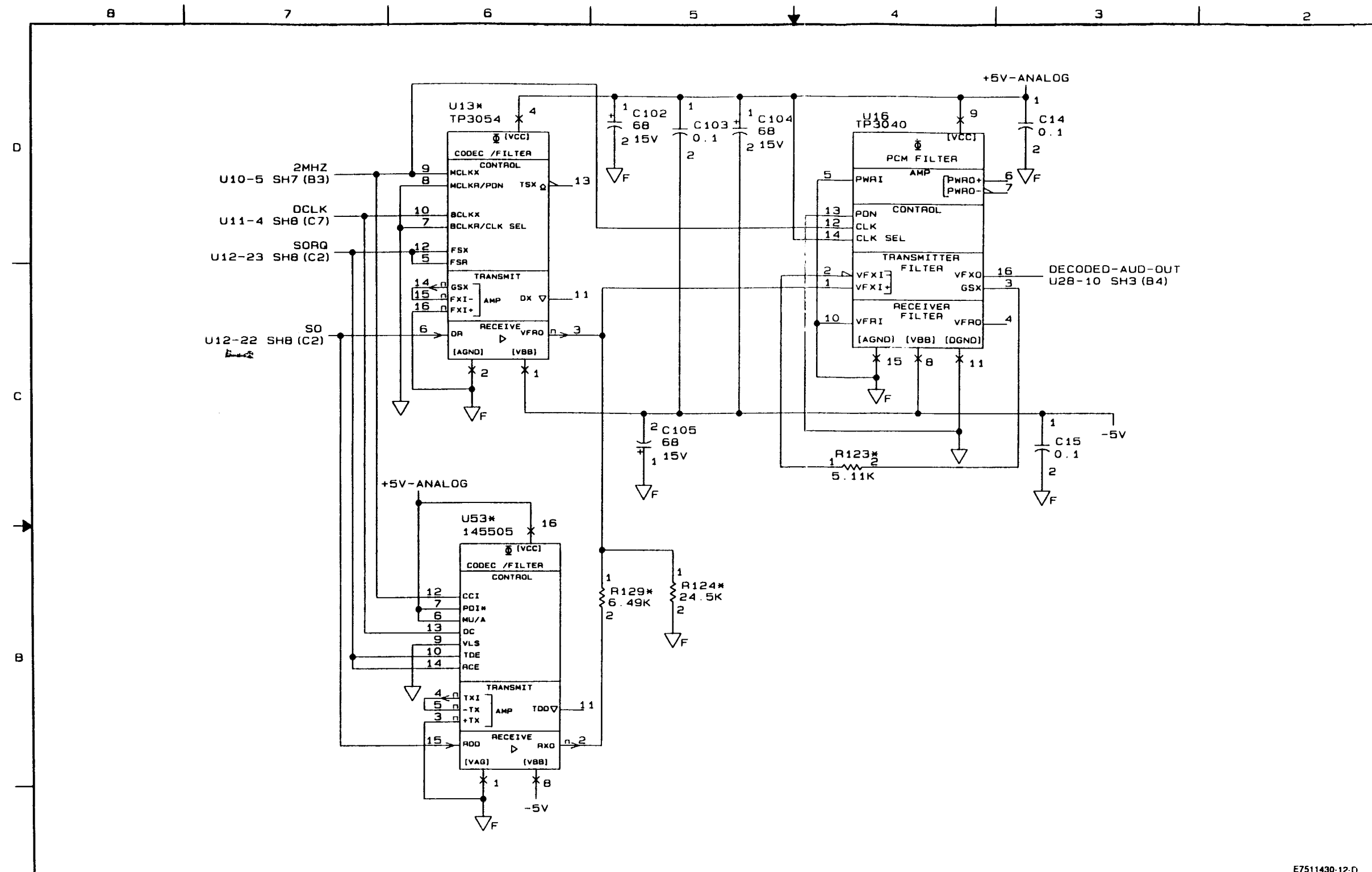


Audio Interface CCA A10 Schematic
Figure 15 (Sheet 7)



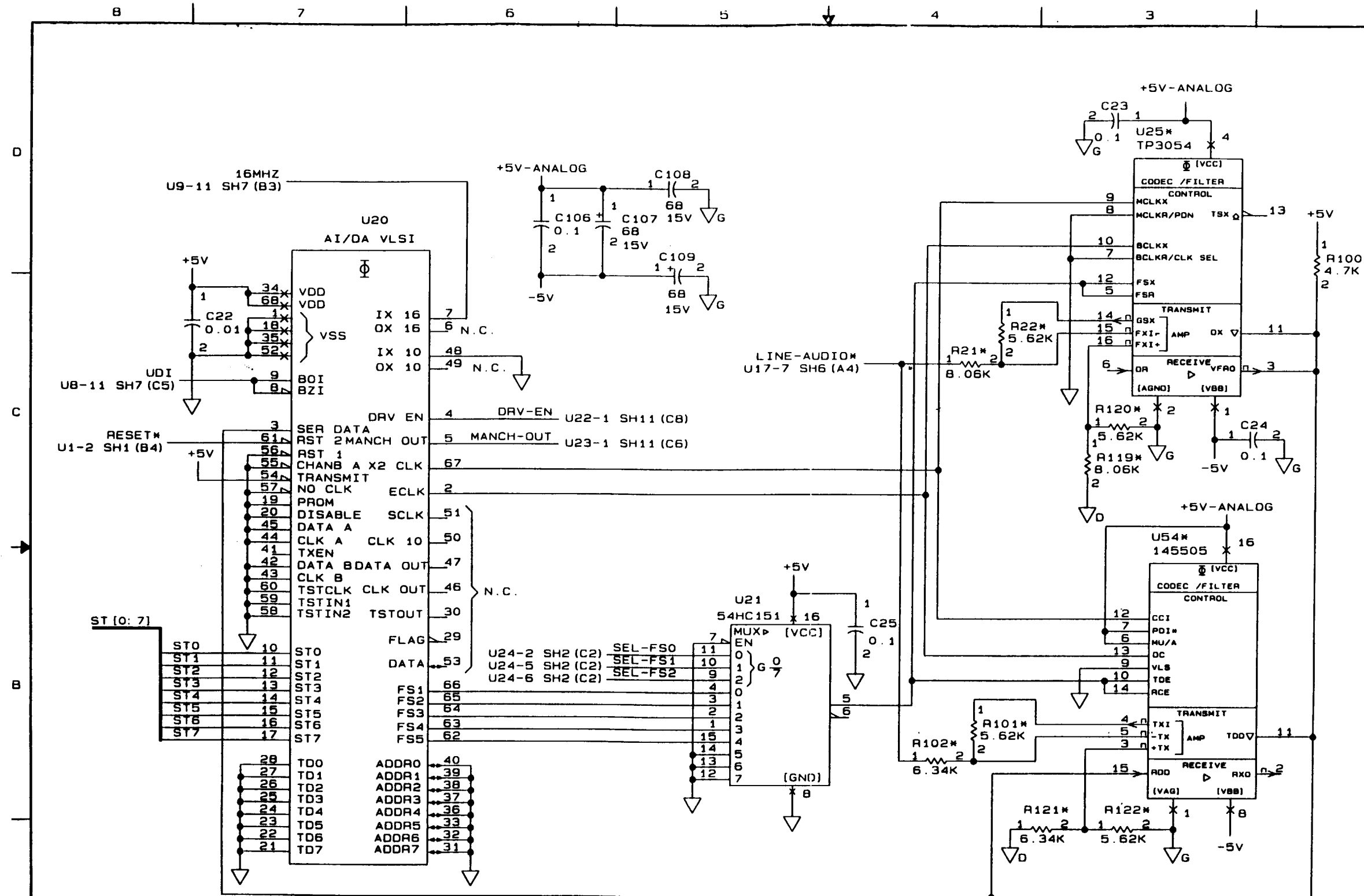
E7511430-11-D

Audio Interface CCA A10 Schematic
Figure 15 (Sheet 8)

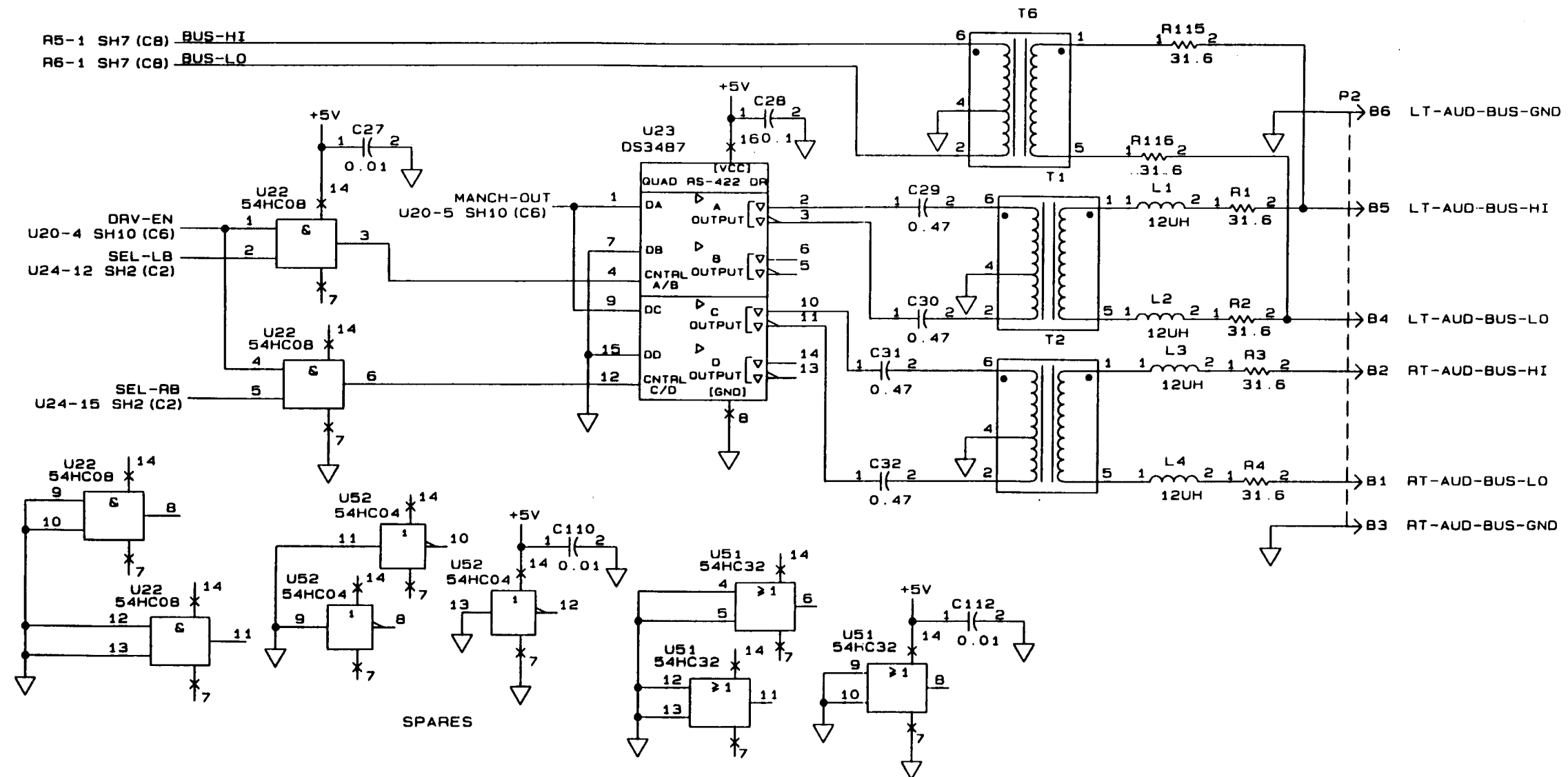


E7511430-12-0

Audio Interface CCA A10 Schematic
Figure 15 (Sheet 9)



Audio Interface CCA A10 Schematic
Figure 15 (Sheet 10)



Audio Interface CCA A10 Schematic
Figure 15 (Sheet 11)

CHAPTER 3
REPAIR
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1. Task	3-8	1
2. Special Tools, Fixtures, and Equipment	3-8	1

Honeywell

GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

SECTION 1 DISASSEMBLY

1. Task

Disassemble the RTIU only to the level necessary to make repairs. Before disassembly, refer to TROUBLESHOOTING (2-2) to examine the condition of the RTIU or to find the most probable cause of its malfunction. This will prevent complete disassembly that may not be necessary.

To aid in assembly:

- Tag all unmarked connections to show data about the location
- Unsolder only those connections necessary to make repairs
- Identify the tie points for the wire harness to prevent damage to the wire insulation when the RTIU is assembled.

2. Equipment and Materials

NOTE: Equivalent alternates are permitted for equipment and materials in this list.

Desoldering equipment _ STA-TEMP Desoldering System with appropriate replaceable tip cartridges, OK International, Metcal, Inc, STA-TEMP Systems Division (CAGE 47882)

3. Procedure

NOTE: Refer to the ILLUSTRATED PARTS LIST (4-1) for:

- IPL figure and item numbers
- Subassembly and component locations
- Correct part numbers, quantities, and attaching hardware.

A. Removal of the Front Panel Assembly

- (1) Remove four screws (1A, IPL figure 1) and detach front panel assembly (14) from chassis assembly (19).
- (2) Disconnect four ribbon connectors (13, IPL figure 2) from the back of the front panel assembly.
- (3) Tilt the front panel assembly away from the chassis and disconnect cable assemblies W9P1 (P/O 21) and W10P1 (P/O 21) from CCAs A1 and A2 (11).
- (4) Disconnect front panel harness connector J13 (18, IPL figure 4) from power supply connector P13 (9, IPL figure 12) and harness connector P3 (17, IPL figure 4) from CCA A10 (20, IPL figure 1).

3-1

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

- (5) Remove the front panel assembly from the chassis.

B. Removal of CCAs A5 thru A8 and A10

- (1) Disconnect connectors P1 (45, IPL figure 9), P6 (42), and P18 (P/O 11, IPL figure 19) from CCA A5 (15 or 25, IPL figure 1).
- (2) Lift both card extractors on CCA A5 and slide the CCA up the guides and remove it from the unit.

NOTE: Retain the P2 polarizing key from the motherboard for each CCA as it is removed.

- (3) Disconnect connector P19 (P/O 11, IPL figure 19) from CCA A6 (16 or 26, IPL figure 1).
- (4) Lift both card extractors on CCA A6 and slide the CCA up the guides and remove it from the unit.
- (5) Disconnect connector P20 (P/O 11, IPL figure 19) from CCA A7 (17, IPL figure 1).
- (6) Lift both card extractors on CCA A7 and slide the CCA up the guides and remove it from the unit.
- (7) Lift both card extractors on CCA A8 (18 or 28) and slide the CCA up the guides and remove it from the unit.
- (8) Lift both card extractors on CCA A10 (20) and slide the CCA up the guides and remove it from the unit.

C. Removal of the Power Supply

- (1) Remove four screws (P/O 16, IPL figure 9) and four washers (P/O 20) from two power supply brackets (35) and move the power supply (39) away from the chassis.
- (2) Remove two screws (37), two lock washers (23), and two flat washers (26) that attach the relay socket (40) to the chassis.
- (3) Disconnect connectors J11, J12, and J17 (9, IPL figure 19), J17 (10), and P16 (P/O 8) and remove the power supply and relay assembly (40, 41, 44).

D. Removal of CCAs A1 and A2

- (1) Disconnect connectors A1P11 (8, IPL figure 2) from CCA A1 (P/O 11, IPL figure 1) and A2P12 (8, IPL figure 2) from CCA A2 (P/O 11, IPL figure 1).
- (2) Remove four screws (6), four flat washers (7), and four lock washers (8) and remove CCAs A1 and A2.

3. D. (4) Disconnect four ribbon connectors from back of front panel assembly.
- (5) Tilt the front panel assembly away from the chassis and disconnect cable assemblies W9 and W10 (21) from CCAs A1 and A2 (11).
- (6) Remove front panel assembly from chassis.
- E. Remove CCAs A1 and A2 (11, IPL figure 1)
 - (1) Remove RTIU top cover.
 - (2) Remove front panel assembly.
 - (3) Disconnect harness connectors A1P11 and A2P12 from power supply harness connectors J11 and J12.
 - (4) Remove two screws that attach each CCA to the chassis. Remove the CCAs.

SECTION 2
CLEANING

1. Task

Cleaning the RTIU consists of the removal of dust, dirt, and unwanted oil and grease. Cleaning prevents contamination and corrosion, and prepares surfaces for finishing or painting.

2. Equipment and Materials

WARNING: BEFORE YOU USE A MATERIAL, KNOW THE HAZARD CODE AND GET THE NECESSARY PROTECTION. REFER TO THE PAGE ABOUT HAZARD CODES FOR MATERIALS IN THE FRONT OF THIS MANUAL.

- NOTES:**
1. Equivalent alternates are permitted for equipment and materials in this list.
 2. The HMN identification that comes before a material name in this list is a Honeywell Material Number to use for reference.

Air ionizing nozzle or gun attachment for compressed air (20 pounds per square inch maximum) - Optional source

Crocus cloth, 4/0

Cleaning Solvents:

HMN 1130778, HAZARD CODE 130D

Solvent - Isopropyl alcohol (99%) - Optional source

HMN 11P1678, HAZARD CODE 100E

Solvent, cleaning - Freon Formula TA - E. I. du Pont de Nemours and Co, Petrochemicals Dept, Freon Products Div, Wilmington, DE

3. Procedure

- CAUTIONS:
1. WHEN COMPRESSED AIR IS USED ON ELECTROSTATIC SENSITIVE EQUIPMENT, MAKE SURE THAT THE OUTLET HOSE HAS EITHER AN AIR IONIZING GUN ATTACHMENT OR AN AIR IONIZING NOZZLE. EITHER ATTACHMENT NEUTRALIZES A POTENTIAL ELECTROSTATIC CHARGE CREATED BY THE AIR FLOW.
 2. EXCESSIVE AMOUNTS OF ISOPROPYL ALCOHOL CAN DAMAGE MOISTURE-SENSITIVE COMPONENTS. TEST ISOPROPYL ALCOHOL BEFORE USE TO MAKE SURE THAT IT DOES NOT DAMAGE PAINTED SURFACES. THE ISOPROPYL ALCOHOL SHOULD BE FAST EVAPORATING TO AVOID MOISTURE MIGRATION INTO CRITICAL COMPONENTS. NEVER APPLY ISOPROPYL ALCOHOL DIRECTLY TO ANY SURFACE.
 3. THERMOPLASTIC TYPE CONNECTORS ARE SUSCEPTIBLE TO DAMAGE BY CLEANING SOLVENTS. ISOPROPYL ALCOHOL MAY BE USED WITH EXTREME CAUTION TO CLEAN FLUX RESIDUES FROM SOLDER CONNECTIONS. DO NOT ALLOW SOLVENT FLUID TO CONTACT CONNECTOR BODY. DO NOT, UNDER ANY CIRCUMSTANCES, USE ACRYLIC, TOLUIC, OR ETHYLENE TYPE SOLVENTS.

A. Observe These General Cleaning Conditions

- Be careful to avoid damage while you clean assemblies and parts.
- Do all operations in a dust-free environment.
- Use filtered, low-pressure air; or a clean, soft, natural-bristle brush; or a clean cloth dampened with isopropyl alcohol.
- Do not use more air pressure than necessary to do the task.
- Protect the cleaned assemblies and parts from moisture, dust, or other contamination until visual check and assembly.

B. Clean External Surfaces

- (1) Use compressed air or a soft, natural-bristle brush to remove light or moderate dirt and dust accumulations from external surfaces of the RTIU.
- (2) Use a cloth dampened with isopropyl alcohol to remove heavy oil, dirt, and grease accumulations from external surfaces of the RTIU.
- (3) Clean painted surfaces that have stenciled index markings, numerals, or letters with a clean cloth dampened with a mild detergent. If the paint is in a recessed or engraved area, clean with a stiff-bristle brush dampened with a mild detergent.

3. C. Clean Electrical Parts

- (1) Clean electrical parts fully with a soft, natural-bristle brush dampened with isopropyl alcohol.
- (2) Clean printed wiring boards with a soft, natural-bristle brush dampened with isopropyl alcohol.
- (3) Use compressed air to remove dirt and dust accumulations around the connector pins.

D. Clean Mechanical Parts

CAUTION: MOVE CROCUS CLOTH IN A PARALLEL DIRECTION TO THE AXIS OF THE PART TO REMOVE CORROSION. IF YOU MOVE THE CROCUS CLOTH IN A LATERAL DIRECTION OF THE AXIS OF THE PART, YOU MIGHT DAMAGE THE FINISH.

- (1) Remove corrosion from metal parts with 4/0 crocus cloth. Move the crocus cloth in a parallel direction to the axis of the part.
- (2) Clean metal parts in a bath of cleaning solvent (Freon Formula TA). If the part can be damaged by submersion, wipe the part thoroughly with a cloth dampened with cleaning solvent. Dry the part with compressed air.

SECTION 3
CHECKS

1. Task

Visual checks are used to find parts that are damaged or worn and show signs of near failure. Possible conditions of failure that are found and corrected during visual checks help prevent serviceable failures and make the equipment reliability better.

2. Equipment and Materials

None

3. Procedure

A. Examine:

- All surfaces, which include covers, for twisted, bent, or damaged areas that can prevent a correct fit
- Painted surfaces for marred or worn finishes
- Threaded parts for burred or cross-threaded areas
- Electrical insulation for
 - Charred areas
 - Breaks
 - Brittleness
- Each CCA for
 - A cracked or broken printed wiring board (PWB)
 - Obvious opens in the printed circuit tracks
 - Loose terminals
 - Damaged solder connections
- Composition resistors and capacitors for
 - Splits
 - Cracks
 - Discolored or burned areas
- Flex-print cables for cuts or tears that expose conductors.

3. B. Make sure:

- The unit is clean and free of:
 - Dirt
 - Chips
 - Solder splashes
 - Other particles and substances you do not want
- That all parts are satisfactorily attached
- That all hardware is installed and tight
- That the connector pins are not bent or damaged
- That the solder connections are correctly attached and the solder is applied correctly
- That retaining compound is applied to all nonlocking hardware as specified in ASSEMBLY
- The wires do not touch any sharp edges of the chassis, screw threads, or other surfaces that can damage the insulation
- You do not compress the wires or components when you put the cover on the unit
- You can read the identification plate.

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SECTION 4 REPAIR

1. Task

Repair of the RTIU includes procedures to correct problems that are identified during TROUBLESHOOTING (2-2) and CHECKS (3-3). Disassemble the RTIU only to the level necessary to make repairs.

2. Equipment and Materials

WARNING: BEFORE YOU USE A MATERIAL, REFER TO THE MANUFACTURERS' MATERIAL SAFETY DATA SHEETS FOR SAFETY INFORMATION. SOME MATERIALS CAN BE DANGEROUS.

- NOTES:**
1. Equivalent alternates are permitted for equipment and materials in this list.
 2. The HMN identification that comes before a material name in this list is a Honeywell Material Number to use for reference.

A. Equipment

Desolder equipment _ STA-TEMP Desolder System with appropriate replaceable tip cartridges - Metcal, Inc, STA-TEMP Systems Division

Solder equipment _ STA-TEMP Model STSS-002 Solder System with appropriate replaceable tip cartridges - Metcal, Inc, STA-TEMP Systems Division

B. Materials

HMN 2010814

Tape, flat braided, 0.050 inch wide and 0.010 inch thick MIL-T-43435, Type II - polyester yarn, finish C - Impregnated with synthetic rubber, size 5) _ Sunset Line and Twine Co, Petaluma, CA

HMN 2914532-16, 18, 20, 24

Tubing, Flexible TFE (AMS 3654) in natural color, No. 16, 18, 20, 24 _ Penntube Products, Nickleton, NJ

HMN 2932532-Various

Sleeving, insulation, crosslinked, flexible, polyolefin, heat shrinkable, electrical, clear (flammable), 0.1875, 0.250, 0.375, 0.750, 1.50-inch inside diameter (MIL-I-23053/5, class 2) _ Minnesota Mining and Mfg Co, Electronized Chemicals Co, Electrical Products Div, Wilmington, MA

HMN 5700216

Wire, uninsulated, soft, copper, tin coated, electrical hookup, AWG 16 _ [Federal Specification QQ-W-343, Type H (Part No. QQW343H24S1T)]

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HMN 5704616-Various colors

HMN 5704622-Various colors

HMN 5704624-Various colors

Wire, high temperature, insulated, 19-strand, electrical, AWG 16, 22, and 24, color as specified (MIL-W-16878/4) _ Carolina Wire and Cable Inc, Charlotte, NC

HMN 57P2928-6

Wire, electrical, silver-coated soft copper, insulated with extruded polytetrafluoroethylene primary insulation covered with fluorocarbon/polyimide tape, AWG 28, GRN _ Honeywell Specification P4006020-2 - W. L. Gore and Associates Inc, Newark, DE

HMN 5804602-10

Cable, two-conductor, PTFE insulated, shielded and jacketed, AWG 24, WHT _ Honeywell Specification P694694 - Carolina Wire and Cable Inc, Charlotte, NC

HMN 5805503-10

Cable, three-conductor, PTFE insulated, shielded and jacketed, AWG 24, WHT _ Honeywell Specification P694694 - Carolina Wire and Cable Inc, Charlotte, NC

HMN 9519478

Ink, black marking with epoxy base resin and amine-type catalyst (FED-STD-595 color 17038) _ No. 50-700-R black CAT-L-INK with catalyst No. 20, Hysol Div - Dexter Corp, Industry, CA

HMN 9710978

Adhesive, solventless, rapid room-temperature curing (MIL-A-46050, Type II - ethyl-2-cyanoacrylate, class 2, - medium viscosity) _ Superbonder No. 414 - Loctite Corp, Rocky Hill, CT

HMN 97A2278

Adhesive-sealant, lubricating, thixotropic, anaerobic (MIL-S-46163, Type II, grade N) _ No. 242 - Loctite Corp, Rocky Hill, CT

HMN 97P5378

Adhesive - sealant, high strength, noncorrosive, RTV, silicone, MIL-A-46146, Type III) _ No. 3145 (gray) - Dow Corning Corp, Midland, MI

HMN 1130778

Solvent - Isopropyl alcohol (99%) _ Optional source

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3. Procedure

NOTES: 1. Refer to the ILLUSTRATED PARTS LIST (4-1) for:

- IPL figure and item numbers
- Subassembly and component locations
- Correct part numbers, quantities, and attaching hardware.

2. The repair procedures in this section are in the same order as the IPL figures.

3. Refer to the Electronics Workmanship Manual, Honeywell
Pub. No. C63-3000-01, for Honeywell workmanship standards.

A. Standard Shop Procedures

Use standard shop procedures to:

- Replace components
- Repair printed wiring boards (PWB)
- Straighten bent pins or replace damaged pins in a connector or replace a damaged connector.
- Replace defective wires in the wire harness and cable assemblies.

B. General Repair Procedures

- (1) Unless otherwise specified, the lead length protrusion above any PWB surface is 0.060-inch or less on side A and side B of the PWB.
- (2) Use the mixture that follows to soften and remove grey RTV silicone adhesive-sealant:
 - Isopropyl alcohol 47%
 - Toluene 37%
 - Water

After you apply the solvent, allow 5 to 10 minutes for the RTV to soften.

C. Repair the RTIU (IPL figure 1)

■ Attach foam pads (23) to the inside of the top cover with adhesive (HMN 97P5378).

D. Repair CCAs A1 and A2 (IPL figure 2)

- (1) Install terminals (9) from side A and solder on side B.
- (2) Cut pin 9 of connector J2C flush with the plastic.

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E. Repair Motherboard A3 (IPL figure 3)

■ Attach cores (11) with adhesive (HMN 97P5378).

F. Repair Front Panel Assembly A12 (IPL figure 4)

WARNING: INSULATION ON RED AND BLACK CIRCUIT BREAKER WIRES MELTS EASILY.

■ Use heat-shrink sleeving (HMN 2932532) in the areas that follow:

<u>Size</u>	<u>Where Used</u>
0.1875	SS6, SS7, SS8
0.250	SS9
0.375, 1.50	CB1, CB2, CB3

G. Repair CCA A5 (IPL figure 5)

■ (1) Attach crystals Y1 and Y2 to the PWB with adhesive (HMN 97P5378).

(2) Cut pin 4 of connector J4 flush to within 0.020 of connector body.

H. Repair CCA A6 (IPL figure 6)

■ (1) Attach crystals Y1, Y2, and Y3 to the PWB with adhesive (HMN 97P5378).

(2) Cut pin 4 of connector J3 flush to within 0.020 of connector body. Long pins of J3 go through the PWB.

(3) Sleeve leads of resistors R65 and R66, located on side A of the CCA, with tubing (HMN 2914532, size 24).

(4) Cut-run data is shown in table 1 and AWG 28 bus-wire data is shown in table 2.

Cut No.	From	To	CCA Side
201	U201-1	GND	B
202	U201-3	GND	B
203	U2-10	U67-12	A
204	U67-12	U2-10	A
205	E101	E102	A
206	E102	E101	A

CCA A6 Cut-run
Table 1

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Bus-Wire No.	From	To	CCA Side
601	U2-10	U201-1	A
602	U67-12	U201-2	A
603	E101	U201-3	A
604	E102	U201-4	A

CCA A6 Bus-Wire Data

Table 2

I. Repair CCA A7 (IPL figure 7)

- (1) Attach the components that follow to the PWB with adhesive (HMN 97P5378):

C7, C8, C15, C16, C23, C24; C89 through C96; C99, C100, C103, C104, C107, C108, C111, C112, C115, C116, C119, C120, C123, C124, C127, C152; CR65 through CR69; CR71, R102; R153 through R157; L1 through L6; and all components located adjacent to each other on side A of the CCA.

- (2) Cut pin 4 of connector J3 flush to within 0.020 of connector body. Long pins of connector J3 go through the PWB.
- (3) Sleeve leads of C151, C152, and R152 through R157 with tubing (HMN 2914532, size 24).
- (4) Sleeve leads of CR65 through CR69, CR71, R72, R77, and R82 with tubing (HMN 2914532, size 18).
- (5) Sleeve cathode lead of CR72 and anode lead of CR73 with tubing (HMN 2914532, size 20).
- (6) Do the steps that follow if you use the optional layout in the IPL figure.
 - (a) Sleeve the leads of R158 through R162 with tubing (HMN 2914532, size 24).
 - (b) Attach R158 through R162 to the applicable resistor network with adhesive (HMN 97P5378). The clearance between the resistor and the resistor network shall be 0.030 ± 0.020 inch to permit sufficient ventilation.
- (7) Cut-run data is shown in table 3 and AWG 28 bus-wire data is shown in table 4.

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Cut No.	From	To	CCA Side
201	E101	P1-A31	B
202	C66	U37-3	B
203	U39-7	U37-8	B
204	U45-1	C79	B
205	U44-1	C79	B
206	U44-2	C79	B
207	U44-7	U46-5	B
208	U46-6	C80	B
209	C87	U49-1	B
210	U48-1	C87	B
211	U48-2	C87	B
212	U48-7	C88	B
213	U50-5	C88	B

CCA A7 Cut-run

Table 3

Bus-Wire No.	From	To	CCA Side
601	E101	P1-A28	B
602	U48-2	U49-1	A
603	U44-2	U45-1	A

CCA A7 Bus-Wire Data

Table 4

J. Repair CCA A8 (IPL figure 8)

- (1) Attach crystal Y1 to the PWB with adhesive (HMN 97P5378).
- (2) Cut-run data is shown in table 5 and bus-wire data is shown in table 6. Use wire (HMN 57P2928, GRN).

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Cut No.	From	To	CCA Side
201	U19-22	U43-16	B
202	U19-27	U62-10	B
203	U43-17	U19-27	A

CCA A8 Cut-run

Table 5

Bus-Wire No.	From	To	CCA Side
601	U43-16	U19-27	A
602	U43-17	U19-22	A
603	U19-22	E101	A

CCA A8 Cut-run

Table 6

K. Repair the Chassis Assembly A11 (IPL figure 9)

- (1) Install heat-shrink sleeving (HMN 2932532, 0.750 in.) over fuse holder (9) after the lead assembly (43) is attached.
- (2) Install post (33) and screw (34) before you install the PWB guide (11).
- (3) Apply adhesive (HMN 97A2278) to threads of four screws (13).
- (4) Attach grommet (30) with adhesive (HMN 9710978).
- (5) Make sure that the power supply main harness terminal and the terminal from the overvoltage protection diode (46) lay flat against each other when they are attached to relay socket (40) terminal E6.

L. Repair CCA A10 (IPL figure 10)

- (1) Attach crystal Y1 to the PWB with adhesive (HMN 97P5378).
- (2) Cut pin 12 of connector J3 flush to within 0.020 in. of connector body. Long pins of connector J3 go through the PWB.
- (3) Sleeve the leads of R129 with tubing (HMN 2914532, size 24).
- (4) Sleeve the lead of R38 with tubing (HMN 2914532, size 24) and attach it to the lead of R39 (near C53) approximately as shown in IPL figure 10. Attach R38 to R37 with adhesive (HMN 97P5378).

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- (5) Put the beveled corner of the audio DSP CCA A10A1 (8) as shown in IPL figure 10. Insert U12 as shown in the socket of the audio DSP CCA.

- (6) Install R49, R50, R51, and R53 with a clearance of 0.150 ± 0.025 inch above the surface of the PWB.

M. Repair CCA A12A1 (IPL figure 11)

- (1) The lead length protrusion is 0.045 inch or less on side A of CCA A12A1.
- (2) Cut pin 9 of connectors J3 and J6 flush with the connector body.

N. Repair Power Supply A11A1 (IPL figure 12)

- (1) Attach grommets (8) with adhesive (HMN 9710978).
- (2) If you install a new power supply (1A), cut any jumper wires that are on pins 1 through 5 of the new power supply.
- (3) Install heat shrink sleeving (HMN 2932532, 0.187 inch) on the harness assembly leads where they attach to pins 1 through 5 of the power supply.
- (4) Install the harness assembly (9) approximately as shown in IPL figure 12 so that all of the harness assembly lays behind the power supply except connector P13.
- (5) Sleeve leads of CR1, CR2, and CR3 with tubing (HMN 2914532, size 18).
- (6) The AWG 16 bus-wire data for the +S and -S terminals is shown in table 7. Sleeve the bus-wire with tubing (HMN 2914532, size 16).

From	To
-S +5V	-OUT +5V
+S +5V	+OUT +5V
+S +15V	+OUT +15V
-S -15V	COM
+S +15V	COM
-S -15V	-OUT -15V

Power Supply Bus-Wire Data
Table 7

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O. Repair CCA A10A1 (IPL figure 13)

- (1) The component height is 0.375-inch or less on side B of CCA A10A1.
- (2) Install the LSI socket (2) adapter (3) as follows:
 - (a) Install the adapter (3) on the PWB.
 - (b) Cut the adapter pins to 0.040-inch or less protrusion on side B.
 - (c) Cut the pins of the LSI socket to 0.550 ± 0.005 inch beyond the shoulder.
 - (d) Install the LSI socket. The LSI socket pins can be soldered only on side B.

P. Repair the Harness and Lead Assemblies (IPL figures 14 through 23)

- (1) The size and type of the wires and cables used in the harness and lead assemblies are shown in the interconnect diagrams in TROUBLESHOOTING (2-2, figures 1 and 2).
- (2) Use lacing tape (HMN 2010814, size 4) to secure the wire bundles.





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SECTION 5 ASSEMBLY

1. Task

Do only those procedures applicable to the level of disassembly done. Refer to the data written during disassembly for the tie points and all unsoldered connections.

2. Equipment and Materials

NOTE: Equivalent alternatives are permitted for equipment in this list.

Solder equipment – STA-TEMP Model STSS-002 Soldering System with appropriate replaceable tip cartridges – Metcal, Inc, STA-TEMP Systems Division

3. Procedure

NOTES: 1. Refer to the ILLUSTRATED PARTS LIST (4-1) for:

- IPL figures and item numbers
- Subassembly and component locations
- Correct part numbers, quantities, and attaching hardware.

2. Refer to TROUBLESHOOTING (2-2, figures 1 and 2) for RTIU interconnect diagrams.

A. Installation of CCAs A1 and A2

- (1) Attach CCAs A1 and A2 (11, IPL figure 1) to the chassis with four screws (6), four flat washers (7), and four lock washers (8).
- (2) Attach connector A1P11 (8, IPL figure 2) to CCA A1 and connector A2P12 (8) to CCA A2.

B. Installation of the Power Supply

- (1) Put power supply (39, IPL figure 9) and relay assembly (40, 41, 44) into position in the chassis assembly (1).
- (2) Attach connectors J11, J12, J17 (9, IPL figure 12), J15 (10), and P16 (P/O 8).
- (3) Attach the relay socket (40, IPL figure 9) to the chassis with two screws (37), two lock washers (23), and two flat washers (26).
- (4) Attach two power supply brackets (35) with four screws (P/O 16) and four washers (P/O 20) to the chassis.

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C. Installation of CCAs A5 thru A8 and A10

- (1) Insert polarizing keys (12, IPL figure 1) in J4, J6, J8, J10, J12, J14, and J16 (6, IPL figure 3) on motherboard CCA A3 (1). See IPL figure 3 for location information.
- (2) Slide the audio interface CCA A10 (20, IPL figure 1) down the guides in the chassis assembly (19). Push down on ejectors (2, IPL figure 10) to engage audio interface CCA in the connectors on the motherboard CCA.
- (3) Slide the serial interface CCA A8 (18 or 28, IPL figure 1) down the guides in the chassis assembly. Push down on ejectors (3, IPL figure 8) to engage serial interface CCA A8 in the connectors on the motherboard CCA.
- (4) Slide the analog CCA A7 (17, IPL figure 1) down the guides in the chassis assembly. Push down on ejectors (2, IPL figure 7) to engage analog CCA A7 in the connectors on the motherboard CCA.
- (5) Attach connector P20 (P/O 11, IPL figure 19) to CCA A7.
- (6) Slide the RSB/RCB/strap CCA A6 (16 or 26, IPL figure 1) down the guides in the chassis assembly. Push down on ejectors (3, IPL figure 8) to engage RSB/RCB/strap CCA A6 in the connectors on the motherboard.
- (7) Attach connector P19 (P/O 11, IPL figure 19) to CCA A6.
- (8) Slide the central processing unit CCA A5 (15 or 25, IPL figure 1) down the guides in the chassis assembly. Push down on ejectors (3, IPL figure 5) to engage central processing unit CCA A6 in the connectors on the motherboard.
- (9) Attach connectors P1 (45, IPL figure 9), P6 (42) , and P18 (P/O 11, IPL figure 19) to CCA A5.

D. Installation of the Front Panel Assembly

- (1) Attach front panel harness connector J13 (18, IPL figure 4) to power supply connector P13 (9, IPL figure 12) and harness connector P3 (17, IPL figure 4) to CCA A10 (20, IPL figure 1).
- (2) Tilt the front panel assembly away from the chassis and attach cable assemblies W9P1 (P/O 21) and W10P1 (P/O 21) from CCAs A1 and A2 (11).
- (3) Attach four ribbon connectors (13, IPL figure 2) to the back of the front panel assembly.
- (4) With four screws (1A, IPL figure 1) attach the front panel assembly to chassis assembly (22).

3. E. (4) Attach the power supply (39) and power supply brackets (35) to the chassis with four screws and washers (16, 20).
- (5) Attach the relay socket (40) to the chassis with two screws, lock washers and flat washers (37, 26, 23).
- (6) Connect the front panel assembly harness connector J13 to the power supply harness connector P13.
- (7) Install CCAs A5, A6, A7, A8, A10.
- F. Install CCAs A5, A6, A7, A8, A10 (IPL figure 1)

Install applicable CCA in chassis, then connect the harness connectors to side B of the CCA. Make sure that the P2 polarizing key is in the proper position on the motherboard connector for each CCA.

<u>CCA</u>	<u>Item No.</u>	<u>Harness Connectors</u>
A7	17	P20
A8	18 or 28	None
A6	16 or 26	P19
A10	20	P3
A5	15 or 25	P18, P1, P6

- G. Install RTIU Top Cover

Install top cover on RTIU and attach with four screws and nylon washers.

SECTION 6
FITS AND CLEARANCES

The fits and clearances in table 1 are necessary to assemble the RTIU correctly. Make sure these limits occur when repair procedures are done.

IPL Figure	Reference Designator	Measurement	Fit or Clearance
5 6 7 8 10	A5 A6 A7 A8 A10	Lead length protrusion on PWB sides A and B	Unless otherwise specified, 0.060 inch or less above the surface of the PWB
7	R158 R162	Clearance between resistor and resistor network	0.030 ± 0.020 inch
10	R49, R50, R51, R53	Clearance of resistor above surface of PWB	0.150 ± 0.025 inch
11	All Components	Lead length protrusion on PWB side A	0.045 inch or less above the surface of the PWB
13	All Components	Component height on PWB side B	0.034 inch or less above the surface of the PWB
13	2	Length of socket pins	0.0550 ± 0.005 inch beyond the shoulder
13	3	Length of adapter pins on PWB side B	0.040 inch or less above the surface of the PWB

Table 1
RTIU Fits and Clearances

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SECTION 7 TESTING/CALIBRATION

1. Task

Instructions to test and calibrate the RTIU are provided in this section.

2. Equipment and Materials

Refer to table 1 for equipment requirements for the self-test and calibration procedures.

NOTE: Equivalent alternates are permitted for equipment in the list.

3. Procedures

A. Integrated Test Procedure

Do the general setup procedure and operating instructions in OPERATION (1-2), then do the self-test/calibration procedures in table 1.

NOTE: Self-test/calibration procedures are based on RTIU engineering test specification IT7511400, revision E, or subsequent.

B. RTIU Self-Test

Refer to OPERATION, Appendix A (1-2, Volume III, Subsection 17), for information about RTIU self-tests with the Users Guide.

C. Individual CCA Tests

Individual CCAs may be tested and calibrated. Insert the CCA into a known good RTIU and perform the tests that apply to that CCA. The CCAs that follow may be tested this way:

Part No.	Description	Integrated Test Procedure Tests to Run
7511430-901	CCA, Audio Interface	1.0-1.3, 2.0-6.27, 10.0
7511440-901, -902	CCA, Serial Interface	1.0-1.3, Type E <RTN>, Type 7 <RTN>, 10.0
7511460-901	CCA, Analog	1.0-1.3, 7.0-8.52, 10.0
7511470-901, -902	CCA, RSB/RCB/STRAP	1.0-1.3, Type E <RTN>, Type 7 <RTN>, 9.0-10.0
7511480-901, -902	CCA, CPU	0.8-1.3, Type E <RTN>, Type 7 <RTN>, 9.0-10.0
NOTE: In the above partial test sequence, switches and harnesses may already be correctly setup from previous tests. Simply verify that they are already as requested.		

D. Oscilloscope Tests

Droop and peak-to-peak voltage test setup and measurement procedures are given in Appendix A of the Integrated Test Procedure (Table 1).

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TITLE: Integrated Test Specification for the RU-850 Radio Test Interface Unit (RTIU), Part Number 7511400-VAR.

1.0 SCOPE

This integrated test specification establishes the manufacturing and operational requirements that the RU-850 RTIU must meet in order to ensure that the equipment is in proper operating condition. This specification also contains the detached test procedures. The test equipment specified in paragraph 5 is required for the execution of these tests.

This specification applies to all dash numbers of 7511400.

2.0 REFERENCE DOCUMENTS

These reference documents are not required for the performance of the test procedure but are an aid for trouble shooting should any failures occur during the performance of these procedures.

<u>PN</u>	<u>DESCRIPTION</u>
7511400	RU-850 RTIU
7511410	CCA, TEST JACK INTERFACE
7511420	CCA, ZIF CONNECTOR INTERFACE
7511430	CCA, AUDIO INTERFACE
7511440	CCA, SERIAL INTERFACE
7511460	CCA, ANALOG
7511470	CCA, RSB/RCB/STRAP
7511480	CCA, CPU
7511490	CCA, MOTHERBOARD
7511409-917	HARNESS ASSY, SELF TEST, RTIU
7511409-914	HARNESS ASSY, COM CLUSTER, RTIU
7510784-901	ASSY, COM CLUSTER MODULE

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

3.0 GENERAL INFORMATION

3.1 Standard Environment

All tests shall be performed under normal factory ambient environmental conditions as follows:

Temperature: $+25 \pm 5^{\circ}\text{C}$

Altitude: 10,000 ft MSL or less

Relative Humidity: 30 percent or less

4.0 POWER AND SIGNAL REQUIREMENTS

4.1 The following power sources are required to perform these tests.

109 to 128 Vac at 47 to 63 Hz

(214 to 254 Vac at 46 to 63 Hz may be used if rear panel switch S1 is in the proper position).

28 ± 0.5 Vdc, 5A or DC Power Supply

26 ± 2 Vac, 0.5A, 400 Hz

4.2 The RTIU self-test cable 7511409-917 provides for wrap around testing of the digital and discrete interfaces. Analog and audio measurements require the use of the commercial test equipment specified in paragraph 5.

4.3 Signal input tolerance settings shall be within one least significant digit of the number specified in the procedure. For example, if a signal input is specified to be 2.0 Vdc. it shall be set to within ± 0.1 Vdc. If it is specified as 2.00 Vdc it shall be set to within ± 0.01 Vdc.

5.0 TEST EQUIPMENT

Cable, Self-Test, RTIU - 7511409-917

Diskettes, RTIU main program - 7512001-108 for 7511400-901 or 7512001-109 for 7511400-902.

Computer, IBM compatible - 512 K bytes, 640 K bytes and 80286 minimum for 7512001-109, 1 disk drive minimum.

COM Cluster Module - 7510784-901

Cable, COM Cluster, RTIU - 7511409-914

Power Supply, DC - 0-30 VDC, 5A min.

Audio Analyzer - HP8903b (Set to 50 ohm output impedance)

Frequency Counter - 50 MHz, ± 10 ppm accuracy, Fluke 1900A

DMM - 4 1/2 digit, .03 percent dc accuracy, 0.5 percent true rms ac accuracy, Fluke 8050A

Oscilloscope - Tektronix 2465 with two P6136 probes (10:1)

Cable, PC, RS232 Serial Interface - 4 wire minimum

Cables, 2 each - RG58 with BNC Female connectors

One 10 ohm, 0.5% resistor

One 39.2 ohm, 0.5% resistor

Pin jack jumpers - Commercial

Two 1K 2%, 1/4 W resistors - commercial

Headphones, commercial - with 1/4 inch dia. phone plug

Microphone plug - 3/16 inch dia. Switchcraft Part No. 39F675

- 5.1 The RTIU main program may be a later (larger) dash number than that specified above for 7511400-902 only.
- 5.2 Unless otherwise specified, equivalent equipment/substitutes may be used for items listed above.

6.0 TEST SETUP

6.1 Test Setup

Perform the test setup of Figure 1.

6.2 Initial Conditions

Prior to plugging in the UUT power cable, verify that rear panel switch S1 is in the proper position for the power source available (115/220 Vac).

Also ensure that all front panel circuit breakers are off as follows:

CB1 - MASTER POWER - OFF

CB2 - 28 VDC - OFF

CB3 - 26 VAC, 400 HZ - OFF

These designations will be used throughout the test procedure.

7.0 TEST REQUIREMENTS

7.1 Warmup

None Required.

7.2 Calibration

Calibration procedures are performed in tests 0.5 up to 1.0 with the top cover removed, and then in tests 1.0 up through 10.0 with the unit sealed. These procedures apply to initial and periodic calibration, and whenever the seals have been broken.

7.3 Pretest

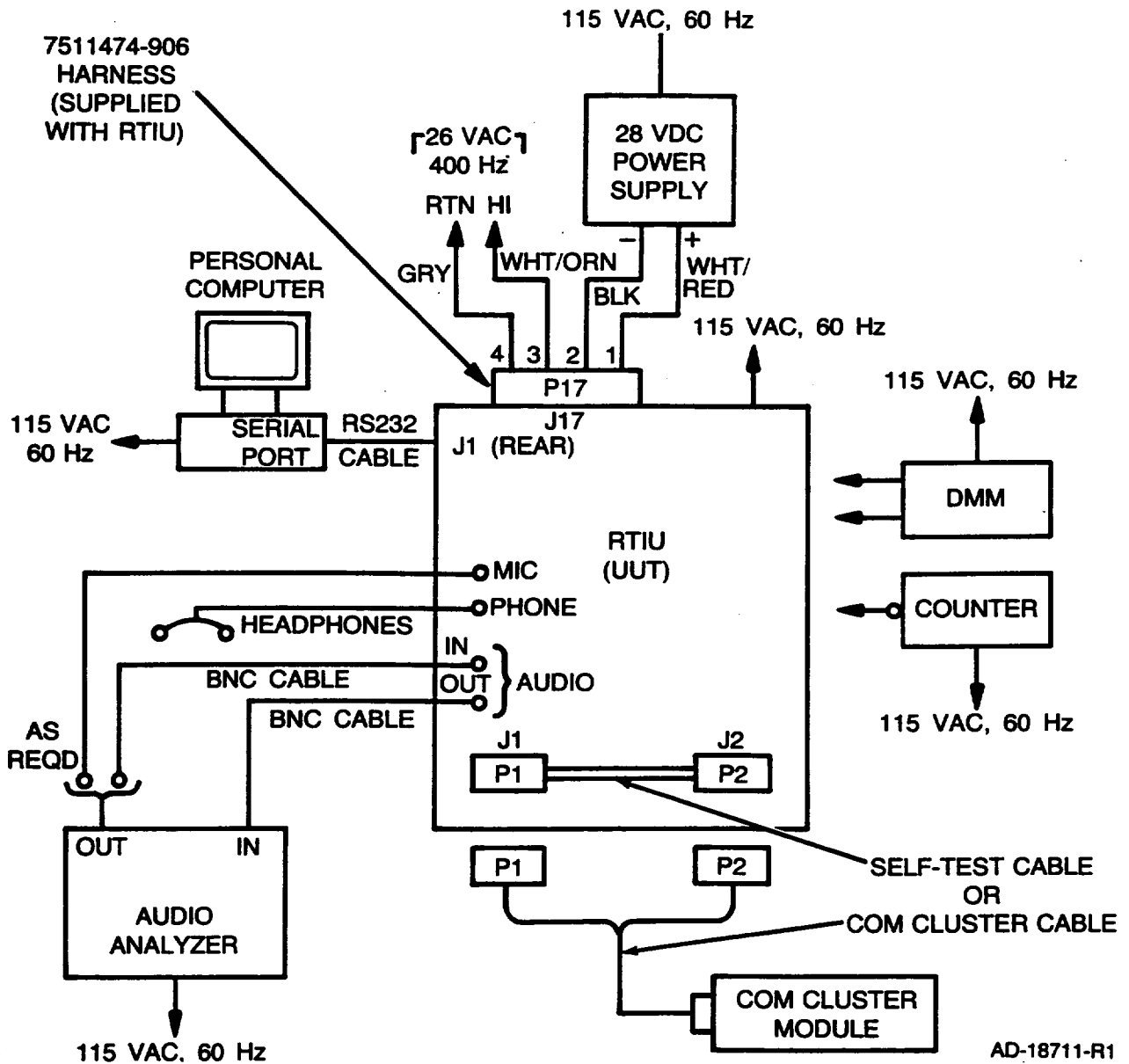
If the unit has never been powered up previously, a pretest without the plug-in cards is required. Remove all plug-in cards and perform tests prior to 0.8.

7.4 Final test may be performed starting at test 1.0.

7.5 All tests shall be performed in the order listed unless otherwise specified.

7.6 All tests shall be recorded on a quality control functional test report.

7.7 Individual CCAs may be tested per Appendix B.



Test Setup
Figure 1

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

<u>Column</u>	<u>Description</u>
Test No.	Tests are numbered in sequence.
Opr Limits	Unit under test (UUT) shall meet these limits whenever tested at other than the manufacturing facility. When an item is marked OPTIONAL the corresponding test is not required except as an aid in troubleshooting.
Test Description	These items are the parameters to which the UUT was designed and aid in troubleshooting by specifying the input and output signal terminals. All conditions required are not repeated for each test, and conditions established in previous tests also apply.
Switch Pos	Positions to which switches must be set are listed in required order and are grouped to correspond to applicable Work Steps.
Work Steps	This column defines the operations necessary to perform a test and achieve a result. Set switches to designated positions before performing corresponding work step.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
0.0	Illuminated		<u>INITIAL POWER UP</u> With 115V power applied to the RTIU, The LED in CB1 shall be as specified.	CB1-ON		Observe LED in CB1.
0.1	Running		The fan shall be as specified.			Observe the fan.
0.2			<u>PRELIMINARY 5V ADJUSTMENT</u> The voltage between +5VDC and GND shall be initially set as specified.			Connect the DVM to the upper +5VDC and GND test points on the front panel of the RTIU. Observe DVM. Adjust the +5V adjustment on the power supply if not within spec.
0.3	+4.95 to +5.05 V dc (+5.00 V dc nominal)		<u>PRELIMINARY +15V ADJUSTMENT</u> The voltage between +15VDC and GND shall be initially set as specified.			Connect the DVM to the upper +15VDC and GND test points on the front panel of the RTIU. Observe DVM. Adjust the +15V adjustment on the power supply assembly if not within spec.
	+14.85 to +15.15 V dc (+15.00 V dc nominal)					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
0.4	-15.15 to -14.85 V dc (-15.00 V dc nominal)		<u>PRELIMINARY -15V ADJUSTMENT</u> The voltage between -15VDC and GND shall be initially set as specified.			Connect the DVM to the upper -15 VDC and GND test points on the front panel of the RTIU. Observe DVM. Adjust the -15V adjustment on the power supply assembly if not within spec.
0.5			<u>5V ADJUSTMENT</u> With the CCAs reinstalled in the motherboard, and the RTIU powered up, the voltage between +5VDC and GND shall be set as specified for both sets of test points on the front panel.	CB1-OFF CB1-ON		Install the five CCAs into their slots on the motherboard, and connect all internal connectors. Connect the DVM to the upper +5VDC and GND test points on the front panel of the RTIU. Observe DVM. Adjust the +5V adjustment on the power supply assembly if not within spec. Connect the DVM to the lower +5VDC and GND test points on the front panel. Observe DVM. Readjust the +5V adjustment, if necessary, so both sets of test points are in spec.
	+4.95 to +5.05 V dc (+5.00 V dc nominal)					
	+4.95 to +5.05 V dc (+5.00 V dc nominal)					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
0.6	+14.85 to +15.15 V dc (+15.00 V dc nominal) +14.85 to +15.15 V dc (+15.00 V dc nominal)		<u>+15V ADJUSTMENT</u> The voltage between +15VDC and GND shall be set as specified for both sets of test points on the front panel.			Connect the DVM to the upper +15VDC and GND test points on the front panel of the RTIU. Observe DVM. Adjust the +15V adjustment on the power supply assembly if not within spec. Connect the DVM to the lower +15VDC and GND test points on the front panel of the RTIU. Observe DVM. Readjust the +15V adjustment, if necessary, so both sets of test points are in spec.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
0.7	-15.15 to -14.85 V dc (-15.00 V dc nominal)		<u>-15V ADJUSTMENT</u> The voltage between -15VDC and GND shall be set as specified for both sets of test points on the front panel.			Connect the DVM to the upper -15 VDC and GND test points on the front panel of the RTIU. Observe DVM. Adjust the -15V adjustment on the power supply assembly if not within spec.
	-15.15 to -14.85 V dc (-15.00 V dc nominal)					Connect the DVM to the lower -15VDC and GND test points on the front panel of the RTIU. Observe DVM. Readjust the -15V adjustment, if necessary, so both sets of test points are in spec.
0.8	All ON		<u>CPU INTERNAL SELF TEST</u> With the RTIU powered down and back up, the indicator lights on the CPU card shall be as specified, immediately and after 15 seconds.	CB1-OFF CB1-ON		Observe indicators on cpu card immediately.
	All OFF					Wait 15 seconds, observe indicators.
0.9	All ON		<u>RESET BUTTON</u> After the RTIU is reset using the reset button, the indicator lights on the CPU card shall be as specified.	S2- Press and Release		Observe indicators on cpu card immediately.
	All OFF					Wait 15 seconds, observe indicators.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
0.10	Illuminated		<u>28 V DC POWER APPLICATION</u> With 28V power applied to the RTIU, the LED in CB2 shall be as specified.	CB2-ON		Observe indicator LED in CB2.
0.11			<u>28 V DC POWER OUTPUT</u> Voltage shall be present at the following points as specified: J1-b4, b5, b6, c4, c5, c6, J2-b4, b5, b6, c4, c5, c6 as specified.			Observe the following points with DVM referenced to CB2-2: J1-b4, b5, b6, c4, c5, c6, J2-b4, b5, b6, c4, c5, c6
0.12	Illuminated		<u>26V AC POWER APPLICATION</u> With 26 V ac applied to the RTIU, the LED in CB3 shall be as indicated.	CB3-ON		Observe indicator LED in CB3.
0.13			<u>26 V AC POWER OUTPUT</u> Voltage shall be present at the following points as specified: J1-b1, b2, b3, c1, c2, c3, J2-b1, b2, b3, c1, c2, c3			Observe following points with DVM referred to CB3-2: J1-b1, b2, b3, c1, c2, c3, J2-b1, b2, b3, c1, c2, c3.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
0.14	23.9976 TO 24.0024 MHz (24.0000 MHz nominal)		<u>CPU CLOCK FREQUENCY</u> CPU clock frequency shall be as specified.			Connect counter to 7511480-901 U101-4. Observe counter.
0.15			<u>RELAY TEST</u> When reset button on RTIU is pressed and released, the 28 V relay shall perform as specified.	S2-Press and Release		Observe J1b4 immediately with DVM. Wait 15 seconds, observe DVM.
0.16			<u>POWER DOWN AND CLOSE UP</u> All OFF	CB1-OFF CB2-OFF CB3-OFF		Observe LED in CB1, CB2, CB3. Install cover.
1.0	No errors present, five version numbers present		<u>POWER ON SELF TEST</u> When the PC and RTIU are powered up, and the RTIU program is started, the power on self test shall be performed as specified.	PC-ON CB1-ON CB2-ON CB3-ON		Boot DOS on the PC. Start the RTIU program 7512001 by typing RTIU <RTN>. Observe the screen after power on self test is completed. Record the version number from the top right corner of the screen, and the four version numbers from the bottom left of the screen.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
1.1	No errors appear, self test menu reappears in 40 seconds or less		<u>CPU CARD SELF TEST</u> When the self test menu is chosen and the CPU card self test is run 5 times, the results shall be as specified.			Install the self test cable from J1 to J2 on the RTIU. Type: 17 <RTN> 5 <RTN> 5 <RTN> Observe screen.
1.2			<u>SERIAL INTERFACE CARD SELF TEST</u> When the Serial Interface Card self test is run 5 times, the results shall be as specified.			Type: 1 <RTN> 5 <RTN> Observe screen.
1.3			<u>RSB/RCB/STRAP CARD SELF TEST</u> When the RSB/RCB/Strap card self test is run 5 times, the results shall be as specified.			Type 2 <RTN> Type 5 <RTN> Observe screen.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
2.0	0.973 to 1.013 (0.994 nominal)		<u>AUDIO CARD SELF TEST</u> <u>(1000 HERTZ)</u> When the audio self test is selected, and a 2.5 Vrms 1000 Hz sinewave is input into the AUDIO IN BNC connector, the ratio of the output level at the AUDIO OUT BNC connector to the input level shall be as specified.			Type 3 <RTN> Connect a 2.5 VRMS 1000 Hz sinewave signal from the audio analyzer output into the AUDIO IN BNC connector on the front panel of the RTIU. Connect the audio analyzer input to the same point. Put the audio analyzer into the ratio mode with this signal as the reference. Move the input of the audio analyzer to the AUDIO OUT BNC connector on the front panel of the RTIU. Read the ratio of the output level at the AUDIO OUT BNC connector to the stored reference.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
2.1	25.8 to 30.9 (28.3 nominal)		<u>MIC IN TEST</u> When 0.125 Vrms is input to the mic jack on the front of the RTIU, and test 2 is selected, the ratio of the output level at the AUDIO OUT jack to the input level shall be as specified.			Connect the audio analyzer output to the MIC jack on the front panel of the RTIU. Connect the audio analyzer input to the same point. Adjust the input to 0.125 Vrms as measured at the MIC jack and put the audio analyzer into the ratio mode with this signal as a reference. Type S <RTN> 2 <RTN> Move the audio analyzer input to the AUDIO OUT jack and read the ratio of the output to the recorded reference.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
2.2			<u>MIC TEST 1</u> When 2.2 Vrms is input to the AUDIO IN jack, and test 3 is selected, the ratio of the output at the AUDIO OUT jack to the input shall be as specified.			Connect the audio output of the audio analyzer to the AUDIO IN jack and readjust the audio level to 2.2 Vrms. Connect the audio input of the audio analyzer to this same point. Put the audio analyzer into the ratio mode with this signal as a reference. Type S <RTN> 3 <RTN> Connect the input of the audio analyzer to the AUDIO OUT jack and read the ratio of the output to the stored reference.
2.3	0.961 to 1.013 (0.996 nominal)		<u>MIC TEST 2</u> When test 4 is selected, the output ratio shall be as specified.			Type S <RTN> 4 <RTN> Read the ratio on the audio analyzer.
2.4	0.961 to 1.013 (0.996 nominal)		<u>MIC TEST 3</u> When test 5 is selected, the output ratio shall be as specified.			Type S <RTN> 5 <RTN> Read the ratio on the audio analyzer.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
2.5	0.961 to 1.013 (0.996 nominal)		<u>MIC TEST 4</u> When test 6 is selected, the output ratio shall be as specified.			Type S <RTN> 6 <RTN> Read the ratio on the audio analyzer.
2.6			<u>MIC TEST 5</u> When test 7 is selected, the output ratio shall be as specified.			Type S <RTN> 7 <RTN> Read the ratio on the audio analyzer.
2.7	0.983 to 1.003 (0.994 nominal)		<u>WARN TEST 1</u> When test 8 is selected, the output ratio shall be as specified.			Type S <RTN> 8 <RTN> Read the ratio on the audio analyzer.
2.8			<u>WARN TEST 2</u> When test 9 is selected, the output ratio shall be as specified.			Type S <RTN> 9 <RTN> Read the ratio on the audio analyzer.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
2.9	0.983 to 1.003 (0.994 nominal)		<u>WARN TEST 3</u> When test 10 is selected, the output ratio shall be as specified.			Type S <RTN> 10 <RTN> Read the ratio on the audio analyzer.
2.10			<u>WARN TEST 4</u> When test 11 is selected, the output ratio shall be as specified.			Type S <RTN> 11 <RTN> Read the ratio on the audio analyzer.
2.11			<u>WARN TEST 5</u> When test 12 is selected, the output ratio shall be as specified.			Type S <RTN> 12 <RTN> Read the ratio on the audio analyzer.
2.12			<u>INTERPHONE TEST OUT</u> When test 13 is selected, the output ratio shall be as specified.			Type S <RTN> 13 <RTN> Read the ratio on the audio analyzer.
	0.486 to 0.507 (0.497 nominal)					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
2.13	0.983 to 1.003 (0.994 nominal)		<u>PHONE #1 TEST</u> When test 14 is selected, the output ratio shall be as specified.			Type S <RTN> 14 <RTN> Read the ratio on the audio analyzer.
2.14			<u>PHONE #2 TEST</u> When test 15 is selected, the output ratio shall be as specified.			Type S <RTN> 15 <RTN> Read the ratio on the audio analyzer.
2.15			<u>INTERPHONE TEST IN</u> When test 19 is selected, the output ratio shall be as specified.			Type S <RTN> 19 <RTN> Read the ratio on the audio analyzer.
2.16			<u>DIGITAL BUS L TEST</u> When test 18 is selected, the output ratio shall be as specified.			Type S <RTN> 18 <RTN> Read the ratio on the audio analyzer.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
2.17	0.899 to 1.103 (0.994 nominal)		<u>DIGITAL BUS R TEST</u> When test 17 is selected, and the right digital audio bus is jumpered to the left digital audio bus, the output ratio shall be as specified.			Type S <RTN> 17 <RTN> Connect a jumper on the front panel of the RTIU between DIGITAL AUDIO BUS L HI and DIGITAL AUDIO BUS R HI, and another jumper between DIGITAL AUDIO BUS L LO and DIGITAL AUDIO BUS R LO. Read the ratio on the audio analyzer. Remove the jumpers.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
3.0	0.973 to 1.013 (0.994 nominal)		<u>AUDIO CARD SELF TEST (300 HERTZ)</u> When the audio test 1 is selected, and a 2.5 Vrms 300 Hz sinewave is input into the AUDIO IN BNC connector, the ratio of the output level at the AUDIO OUT BNC connector to the input level shall be as specified.			Type S <RTN> 1 <RTN> Connect a 2.5 VRMS 300 Hz sinewave signal from the audio analyzer output into the AUDIO IN BNC connector on the front panel of the RTIU. Connect the audio analyzer input to the same point. Put the audio analyzer into the ratio mode with this signal as the reference. Move the input of the audio analyzer to the AUDIO OUT BNC connector on the front panel of the RTIU. Read the ratio of the output level at the AUDIO OUT BNC connector to the stored reference.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
3.1	25.8 to 30.9 (28.3 nominal)		<u>MIC IN TEST</u> When 0.125 Vrms is input to the mic jack on the front of the RTIU, and test 2 is selected, the ratio of the output level at the AUDIO OUT jack to the input level shall be as specified.			Connect the audio analyzer output to the MIC jack on the front panel of the RTIU. Connect the audio analyzer input to the same point. Adjust the input to 0.125 Vrms as measured at the MIC jack and put the audio analyzer into the ratio mode with this signal as a reference. Type S <RTN> 2 <RTN> Move the audio analyzer input to the AUDIO OUT jack and read the ratio of the output to the recorded reference.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
3.2			<u>MIC TEST 1</u> When 2.2 Vrms is input to the AUDIO IN jack, and test 3 is selected, the ratio of the output at the AUDIO OUT jack to the input shall be as specified.			Connect the audio output of the audio analyzer to the AUDIO IN jack and readjust the audio level to 2.2 Vrms. Connect the audio input of the audio analyzer to this same point. Put the audio analyzer into the ratio mode with this signal as a reference. Type S <RTN> 3 <RTN> Connect the input of the audio analyzer to the AUDIO OUT jack and read the ratio of the output to the stored reference.
3.3	0.920 to 1.013 (0.996 nominal)		<u>MIC TEST 2</u> When test 4 is selected, the output ratio shall be as specified.			Type S <RTN> 4 <RTN> Read the ratio on the audio analyzer.
3.4	0.920 to 1.013 (0.996 nominal)		<u>MIC TEST 3</u> When test 5 is selected, the output ratio shall be as specified.			Type S <RTN> 5 <RTN> Read the ratio on the audio analyzer.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
3.5	0.920 to 1.013 (0.996 nominal)		<u>MIC TEST 4</u> When test 6 is selected, the output ratio shall be as specified.			Type S <RTN> 6 <RTN> Read the ratio on the audio analyzer.
3.6			<u>MIC TEST 5</u> When test 7 is selected, the output ratio shall be as specified.			Type S <RTN> 7 <RTN> Read the ratio on the audio analyzer.
3.7	0.983 to 1.003 (0.994 nominal)		<u>WARN TEST 1</u> When test 8 is selected, the output ratio shall be as specified.			Type S <RTN> 8 <RTN> Read the ratio on the audio analyzer.
3.8			<u>WARN TEST 2</u> When test 9 is selected, the output ratio shall be as specified.			Type S <RTN> 9 <RTN> Read the ratio on the audio analyzer.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
3.9	0.983 to 1.003 (0.994 nominal)		<u>WARN TEST 3</u> When test 10 is selected, the output ratio shall be as specified.			Type S <RTN> 10 <RTN> Read the ratio on the audio analyzer.
3.10			<u>WARN TEST 4</u> When test 11 is selected, the output ratio shall be as specified.			Type S <RTN> 11 <RTN> Read the ratio on the audio analyzer.
3.11			<u>WARN TEST 5</u> When test 12 is selected, the output ratio shall be as specified.			Type S <RTN> 12 <RTN> Read the ratio on the audio analyzer.
3.12			<u>INTERPHONE TEST OUT</u> When test 13 is selected, the output ratio shall be as specified.			Type S <RTN> 13 <RTN> Read the ratio on the audio analyzer.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
3.13	0.983 to 1.003 (0.994 nominal)		<u>PHONE #1 TEST</u> When test 14 is selected, the output ratio shall be as specified.			Type S <RTN> 14 <RTN> Read the ratio on the audio analyzer.
3.14			<u>PHONE #2 TEST</u> When test 15 is selected, the output ratio shall be as specified.			Type S <RTN> 15 <RTN> Read the ratio on the audio analyzer.
3.15			<u>INTERPHONE TEST IN</u> When test 19 is selected, the output ratio shall be as specified.			Type S <RTN> 19 <RTN> Read the ratio on the audio analyzer.
3.16	0.486 to 0.507 (0.497 nominal)		<u>DIGITAL BUS L TEST</u> When test 18 is selected, the output ratio shall be as specified.			Type S <RTN> 18 <RTN> Read the ratio on the audio analyzer.
	0.899 to 1.103 (0.994 nominal)					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
3.17	0.899 to 1.103 (0.994 nominal)		<u>DIGITAL BUS R TEST</u> When test 17 is selected, and the right digital audio bus is jumpered to the left digital audio bus, the output ratio shall be as specified.			Type S <RTN> 17 <RTN> Connect a jumper on the front panel of the RTIU between DIGITAL AUDIO BUS L HI and DIGITAL AUDIO BUS R HI, and another jumper between DIGITAL AUDIO BUS L LO and DIGITAL AUDIO BUS R LO. Read the ratio on the audio analyzer. Remove the jumpers.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
4.0	0.973 to 1.013 (0.994 nominal)		<u>AUDIO CARD SELF TEST (3000 HERTZ)</u> When the audio self test is selected, and a 2.5 Vrms 3000 Hz sinewave is input into the AUDIO IN BNC connector, the ratio of the output level at the AUDIO OUT BNC connector to the input level shall be as specified.			Type S <RTN> 1 <RTN> Connect a 2.5 VRMS 3000 Hz sinewave signal from the audio analyzer output into the AUDIO IN BNC connector on the front panel of the RTIU. Connect the audio analyzer input to the same point. Put the audio analyzer into the ratio mode with this signal as the reference. Move the input of the audio analyzer to the AUDIO OUT BNC connector on the front panel of the RTIU. Read the ratio of the output level at the AUDIO OUT BNC connector to the stored reference.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
4.1	25.8 to 30.9 (28.3 nominal)		<u>MIC IN TEST</u> When 0.125 Vrms is input to the mic jack on the front of the RTIU, and test 2 is selected, the ratio of the output level at the AUDIO OUT jack to the input level shall be as specified.			Connect the audio analyzer output to the MIC jack on the front panel of the RTIU. Connect the audio analyzer input to the same point. Adjust the input to 0.125 Vrms as measured at the MIC jack and put the audio analyzer into the ratio mode with this signal as a reference. Type S <RTN> 2 <RTN> Move the audio analyzer input to the AUDIO OUT jack and read the ratio of the output to the recorded reference.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
4.2			<u>MIC TEST 1</u> When 2.2 Vrms is input to the AUDIO IN jack, and test 3 is selected, the ratio of the output at the AUDIO OUT jack to the input shall be as specified.			Connect the audio output of the audio analyzer to the AUDIO IN jack and readjust the audio level to 2.2 Vrms. Connect the audio input of the audio analyzer to this same point. Put the audio analyzer into the ratio mode with this signal as a reference. Type S <RTN> 3 <RTN> Connect the input of the audio analyzer to the AUDIO OUT jack and read the ratio of the output to the stored reference.
4.3	0.961 to 1.013 (0.996 nominal)		<u>MIC TEST 2</u> When test 4 is selected, the output ratio shall be as specified.			Type S <RTN> 4 <RTN> Read the ratio on the audio analyzer.
4.4	0.961 to 1.013 (0.996 nominal)		<u>MIC TEST 3</u> When test 5 is selected, the output ratio shall be as specified.			Type S <RTN> 5 <RTN> Read the ratio on the audio analyzer.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
4.5	0.961 to 1.013 (0.996 nominal)		<u>MIC TEST 4</u> When test 6 is selected, the output ratio shall be as specified.			Type S <RTN> 6 <RTN> Read the ratio on the audio analyzer.
4.6			<u>MIC TEST 5</u> When test 7 is selected, the output ratio shall be as specified.			Type S <RTN> 7 <RTN> Read the ratio on the audio analyzer.
4.7			<u>WARN TEST 1</u> When test 8 is selected, the output ratio shall be as specified.			Type S <RTN> 8 <RTN> Read the ratio on the audio analyzer.
4.8	0.963 to 1.003 (0.994 nominal)		<u>WARN TEST 2</u> When test 9 is selected, the output ratio shall be as specified.			Type S <RTN> 9 <RTN> Read the ratio on the audio analyzer.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
4.9	0.963 to 1.003 (0.994 nominal)		<u>WARN TEST 3</u> When test 10 is selected, the output ratio shall be as specified.			Type S <RTN> 10 <RTN> Read the ratio on the audio analyzer.
4.10			<u>WARN TEST 4</u> When test 11 is selected, the output ratio shall be as specified.			Type S <RTN> 11 <RTN> Read the ratio on the audio analyzer.
4.11			<u>WARN TEST 5</u> When test 12 is selected, the output ratio shall be as specified.			Type S <RTN> 12 <RTN> Read the ratio on the audio analyzer.
4.12			<u>INTERPHONE TEST OUT</u> When test 13 is selected, the output ratio shall be as specified.			Type S <RTN> 13 <RTN> Read the ratio on the audio analyzer.
	0.476 to 0.497 (0.487 nominal)					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
4.13	0.983 to 1.003 (0.994 nominal)		<u>PHONE #1 TEST</u> When test 14 is selected, the output ratio shall be as specified.			Type S <RTN> 14 <RTN> Read the ratio on the audio analyzer.
4.14			<u>PHONE #2 TEST</u> When test 15 is selected, the output ratio shall be as specified.			Type S <RTN> 15 <RTN> Read the ratio on the audio analyzer.
4.15			<u>INTERPHONE TEST IN</u> When test 19 is selected, the output ratio shall be as specified.			Type S <RTN> 19 <RTN> Read the ratio on the audio analyzer.
4.16			<u>DIGITAL BUS L TEST</u> When test 18 is selected, the output ratio shall be as specified.			Type S <RTN> 18 <RTN> Read the ratio on the audio analyzer.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
4.17	0.899 to 1.147 (0.994 nominal)		<u>DIGITAL BUS R TEST</u> When test 17 is selected, and the right digital audio bus is jumpered to the left digital audio bus, the output ratio shall be as specified.			Type S <RTN> 17 <RTN> Connect a jumper on the front panel of the RTIU between DIGITAL AUDIO BUS L HI and DIGITAL AUDIO BUS R HI, and another jumper between DIGITAL AUDIO BUS L LO and DIGITAL AUDIO BUS R LO. Read the ratio on the audio analyzer. Remove the jumpers.
5.0			<u>AUDIO CARD SELF TEST (SIG/NOISE AND DSTN)</u> When the audio self test is selected, and a 2.5 Vrms 1000 Hz sinewave is input into the AUDIO IN BNC connector, the signal to noise ratio, SINAD and distortion at the AUDIO OUT BNC connector shall be as specified.			Type S <RTN> 1 <RTN> Connect a 2.5 VRMS 1000 Hz sinewave signal from the audio analyzer output into the AUDIO IN BNC connector on the front panel of the RTIU. Connect the input of the audio analyzer to the AUDIO OUT BNC connector on the front panel of the RTIU. Read the signal to noise ratio. Read SINAD.
5.1	70 dB or more 60 dB or more					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
5.2	0.1 percent or less					Read distortion.
5.3			<u>MIC IN TEST</u> When 0.125 Vrms is input to the mic jack on the front of the RTIU, and test 2 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Connect the audio analyzer output to the MIC jack on the front panel of the RTIU and adjust the level to 0.125 Vrms. Connect the audio analyzer input to the AUDIO OUT jack. Type S <RTN> 2 <RTN> Read signal to noise ratio. Read SINAD. Read distortion.
5.4	50 dB or more					
5.5	40 dB or more					
5.6	1.0 percent or less		<u>MIC TEST 1</u> When 2.2 Vrms is input to the AUDIO IN jack, and test 3 is selected, the signal to noise ratio, SINAD, and distortion at the AUDIO OUT jack shall be as specified.			Connect the audio output of the audio analyzer to the AUDIO IN jack and readjust the audio level to 2.2 Vrms. Connect the audio input of the audio analyzer to the AUDIO OUT jack. Type S <RTN> 3 <RTN> Read signal to noise ratio.
	50 dB or more					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
5.7	50 dB or more					Read SINAD.
5.8	0.5 percent or less					Read distortion.
5.9			<u>MIC TEST 2</u> When test 4 is selected, the signal to noise ratio, SINAD and distortion shall be as specified.			Type S <RTN> 4 <RTN> Read signal to noise ratio.
5.10	50 dB or more					Read SINAD.
5.11	0.5 percent or less					Read distortion.
5.12			<u>MIC TEST 3</u> When test 5 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 5 <RTN> Read signal to noise ratio.
5.13	50 dB or more					Read SINAD.
5.14	0.5 percent or less					Read distortion.
5.15			<u>MIC TEST 4</u> When test 6 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 6 <RTN> Read signal to noise ratio.
5.16	50 dB or more					Read SINAD.
5.17	0.5 percent or less					Read distortion.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
5.18			<u>MIC TEST 5</u> When test 7 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 7 <RTN> Read signal to noise ratio.
5.19	50 dB or more					Read SINAD.
5.20	0.5 percent or less					Read distortion.
5.21			<u>WARN TEST 1</u> When test 8 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 8 <RTN> Read signal to noise ratio.
5.22	70 dB or more					Read SINAD.
5.23	60 dB or more					Read distortion.
5.24	0.1 percent or less		<u>WARN TEST 2</u> When test 9 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 9 <RTN> Read signal to noise ratio.
5.25	70 dB or more					Read SINAD.
5.26	60 dB or more					Read distortion.
	0.1 percent or less					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
5.27			<u>WARN TEST 3</u> When test 10 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 10 <RTN> Read signal to noise ratio. Read SINAD. Read distortion.
5.28	70 dB or more					
5.29	60 dB or more					
5.30	0.1 percent or less		<u>WARN TEST 4</u> When test 11 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 11 <RTN> Read signal to noise ratio. Read SINAD. Read distortion.
5.31	70 dB or more					
5.32	60 dB or more					
5.33	0.1 percent or less		<u>WARN TEST 5</u> When test 12 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 12 <RTN> Read signal to noise ratio. Read SINAD. Read distortion.
5.34	70 dB or more					
5.35	60 dB or more					
	0.1 percent or less					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
5.36			<u>INTERPHONE TEST OUT</u> When test 13 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 13 <RTN> Read signal to noise ratio. Read SINAD. Read distortion.
5.37	50 dB or more					
5.38	50 dB or more					
5.39	0.25 percent or less		<u>PHONE #1 TEST</u> When test 14 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 14 <RTN> Read signal to noise ratio. Read SINAD. Read distortion.
5.40	70 dB or more					
5.41	60 dB or more					
5.42	0.1 percent or less		<u>PHONE #2 TEST</u> When test 15 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Type S <RTN> 15 <RTN> Read signal to noise ratio. Read SINAD. Read distortion.
5.43	70 dB or more					
5.44	60 dB or more					
	0.1 percent or less					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
5.45			<u>INTERPHONE TEST IN</u>			Type S <RTN> 19 <RTN>
	55 dB or more		When test 19 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Read signal to noise ratio.
5.46	50 dB or more					Read SINAD.
5.47	0.25 percent or less					Read distortion.
5.48			<u>DIGITAL BUS L TEST</u>			Type S <RTN> 18 <RTN>
	60 dB or more		When test 18 is selected, the signal to noise ratio, SINAD, and distortion shall be as specified.			Read signal to noise ratio.
5.49	35 dB or more					Read SINAD.
5.50	1.6 percent or less					Read distortion.
5.51			<u>DIGITAL BUS R TEST</u>			Type S <RTN> 17 <RTN>
	60 dB or more		When test 17 is selected, and the right digital audio bus is jumpered to the left digital audio bus, the signal to noise ratio, SINAD, and distortion shall be as specified.			Connect a jumper on the front panel of the RTIU between DIGITAL AUDIO BUS L HI and DIGITAL AUDIO BUS R HI, and another jumper between DIGITAL AUDIO BUS L LO and DIGITAL AUDIO BUS R LO.
						Read signal to noise ratio.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
5.52	35 dB or more					Read SINAD.
5.53	1.6 percent or less					Read distortion.
				CB2-OFF CB3-OFF		Remove the jumpers. Remove self test harness.
						Type E <RTN> 7 <RTN>
6.0			<u>DIGITAL BUS SYNC TEST</u>			
			When a COM Cluster module is connected to the RTIU, and the Audio Panel test is selected, the bus synchronization shall function as specified.			Connect a COM Cluster module and harness to the RTIU.
						Type 4 <RTN> 1 <RTN>
6.1			When both the COM Cluster and the RTIU are attempting to transmit in the COM time slot at the same time the status display shall be as specified.			Type B <RTN> L <RTN> 1 <RTN> 1 <RTN>
	Flickering indications		Error message "7720 NOT RESPONDING" shall be ignored for this test.	CB2-ON		Observe COM STATUS and NAV STATUS displays.
						Turn on 28V. Observe status display.
						Ignore "7720 NOT RESPONDING" error message.
6.2			When the COM Cluster is powered down, the RTIU shall resynchronize as specified.	CB2-OFF		Wait 5 seconds.
	Stable					Type D <RTN>
						Observe status displays.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
6.3	Tone, then Click, then Tone		When the RTIU is transmitting in the NAV time slot, and the COM cluster is powered up, the results shall be as specified.			Put on headphones. Type B <RTN> L <RTN> 128 <RTN> 1 <RTN> S <RTN> 1 <RTN> U <RTN> 1 <RTN> 1 <RTN>
				CB2-ON		Listen in headphones.
				CB2-OFF		Type N <RTN> P <RTN>
6.4			<u>TIME SLOT 1 TEST</u> With the RTIU transmitting and receiving on the audio bus time slot 1, the tone shall be heard.			Type B <RTN> L <RTN> 1 <RTN> 1 <RTN> U <RTN> 2 <RTN> 1 <RTN>
	Present					Listen for tone.
6.5			<u>TIME SLOT 2 TEST</u> With the RTIU transmitting and receiving on the audio bus time slot 2, the tone shall be heard.			Type B <RTN> L <RTN> 1 <RTN> 2 <RTN> U <RTN> 2 <RTN> 2 <RTN>
	Present					Listen for tone.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
6.6	Present		<u>TIME SLOT 3 TEST</u> With the RTIU transmitting and receiving on the audio bus time slot 3, the tone shall be heard.			Type B <RTN> L <RTN> 1 <RTN> 3 <RTN> U <RTN> 2 <RTN> 3 <RTN>
6.7			<u>TIME SLOT 4 TEST</u> With the RTIU transmitting and receiving on the audio bus time slot 4, the tone shall be heard.			Listen for tone. Type B <RTN> L <RTN> 1 <RTN> 4 <RTN> U <RTN> 2 <RTN> 4 <RTN>
6.8	Present		<u>TIME SLOT 5 TEST</u> With the RTIU transmitting and receiving on the audio bus time slot 5, the tone shall be heard.			Listen for tone. Type B <RTN> L <RTN> 1 <RTN> 5 <RTN> U <RTN> 2 <RTN> 5 <RTN>
6.9			<u>STATUS TESTS</u> In tests 6.9 to 6.19 the status displays on the PC screen shall be as specified and shall match the status that is requested.			Listen for tone. Type B <RTN> L <RTN> 0 <RTN> 1 <RTN> Observe NAV and COM STATUS to be: NV @CM VX HX
	as specified					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
6.10						Type B <RTN> L <RTN> 1 <RTN> 1 <RTN>
	as specified					Observe NAV and COM STATUS to be: NV VX CM
6.11						Type B <RTN> L <RTN> 2 <RTN> 1 <RTN>
	as specified					Observe NAV and COM STATUS to be: NV MI CM VX HX
6.12						Type B <RTN> L <RTN> 4 <RTN> 1 <RTN>
	as specified					Observe NAV and COM STATUS to be: NV DI CM VX HX
6.13						Type B <RTN> L <RTN> 8 <RTN> 1 <RTN>
	as specified					Observe NAV and COM STATUS to be: NV DI CM VX HX

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
6.14						Type B <RTN> L <RTN> 16 <RTN> 1 <RTN>
6.15	as specified					Observe NAV and COM STATUS to be: NV VX ⊗CM VX HX Type B <RTN> L <RTN> 32 <RTN> 1 <RTN>
6.16	as specified					Observe NAV and COM STATUS to be: NV VE ⊗CM VX HX Type B <RTN> L <RTN> 64 <RTN> 1 <RTN>
6.17	as specified					Observe NAV and COM STATUS to be: NV ON ⊗CM VX HX Type B <RTN> L <RTN> 128 <RTN> 1 <RTN>
	as specified					Observe NAV and COM STATUS to be: NV ON ⊗CM VX HX

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
6.18	as specified					Type B <RTN> L <RTN> 85 <RTN> 1 <RTN>
6.19						Observe NAV and COM STATUS to be: ONV CM VX VE HE HX ON Type B <RTN> L <RTN> 170 <RTN> 1 <RTN>
6.20	As specified		<u>AUDIO DROOP TEST</u> When set up and measured according to Appendix A, the droop in the off time of the AUDIO L bus shall be as indicated.			Observe NAV and COM STATUS to be: NV MI ON DI CM VE VX HX

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
6.21			<u>AUDIO R DROOP TEST</u> When the AUDIO R bus transmitter is jumpered to the AUDIO L bus receiver, and set up and measured according to Appendix A, the droop in the off time of the AUDIO R bus transmitter loaded by the AUDIO L bus receiver shall be as indicated.			Type B <RTN> N <RTN> Disconnect the oscilloscope. Connect a jumper between AUDIO L HI and AUDIO R HI on the front panel of the RTIU. Connect another jumper between AUDIO L LO and AUDIO R LO on the front panel of the RTIU. Reconnect the oscilloscope to the AUDIO L HI and AUDIO L LO jacks per Appendix A, Figure A-1. Type B <RTN> R <RTN> 255 <RTN> 1 <RTN> Using Figure A-2 as an example, measure the droop in the off time of the pulse train. Observe NAV and COM status to be: @NV VX CM VX VE HX HE ON ON ON
6.22	70 mV or less					
	As specified					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
6.23			With a 39.2 ohm resistor in parallel with the normal bus loading, the peak to peak differential audio bus voltage between AUDIO L HI and AUDIO L LO driven by the AUDIO R bus transmitter shall be as indicated.			Connect a 39.2 ohm resistor between the jumpered AUDIO L HI and AUDIO L LO jacks on the front panel of the RTIU. Set up the oscilloscope per Appendix A with VOLTS/DIV changed to 200 mV for CH1 and CH2.
	1.25 Vp-p or more					Measure the differential peak to peak bus voltage on the oscilloscope as shown in Appendix A, Figure A-1.
6.24						Observe NAV and COM status to be:
	As specified					ENV VX CM VX VE HX HE ON ON ON Type B <RTN> N <RTN> B <RTN> L <RTN> 255 <RTN> 1 <RTN>
6.25			With the left bus transmitting, and a 39.2 ohm resistor in parallel with the normal bus loading, the peak to peak differential bus voltage between AUDIO L HI and AUDIO L LO shall be as indicated.			Measure the differential peak to peak bus voltage on the oscilloscope as shown in Appendix A, Figure A-1.
	1.25 Vp-p or more					
6.26						Observe NAV and COM status to be:

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
6.27	As specified					@NV VX CM VX VE HX HE ON ON ON Type E <RTN> Disconnect the oscilloscope, jumpers, audio analyzer, COM cluster, and COM cluster harness.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
7.0	2.495 to 2.505 V dc (2.500 V dc nominal)		<u>ANALOG SELF TEST</u> When the analog self test is selected, the reading on the PC screen shall be as specified.	CB2-ON CB3-ON		Install the self test harness. Type 17 <RTN> 4 <RTN> S <RTN> 8 <RTN> Observe reading to the right of 2.5 V REF.
7.1			<u>SYNCRO X OUTPUT TEST</u> When the SYNCRO X output is set as indicated, the voltages at J1A4 with respect to J1L3 shall be as indicated.			Type C <RTN> X <RTN> D <RTN> 0 <RTN> Connect DVM to J1A4 with J1L3 as a reference. Observe DVM.
7.2	-15 to +15 mV dc (0 V dc nominal)					Type C <RTN> X <RTN> D <RTN> 7.5 <RTN> Observe DVM.
	+7.48 to +7.52 V dc (+7.5 V dc nominal)					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

Honeywell

GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION		PROCEDURE	
	OPR LIMITS	c	SWITCH POS	c
7.3	-7.52 to -7.48 V dc (-7.5 V dc nominal)			TypeC <RTN> X <RTN> D <RTN> -7.5 <RTN> Observe DVM.
7.4	+13.5 V dc or more			TypeC <RTN> X <RTN> D <RTN> 15 <RTN> Observe DVM.
7.5	-13.5 V dc or less			TypeC <RTN> X <RTN> D <RTN> -15 <RTN> Observe DVM.
7.6	+7.32 to +7.52 Vrms ac (+7.42 Vrms ac squarewave nominal)			TypeC <RTN> X <RTN> A <RTN> 7.5 <RTN> Observe DVM.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

Honeywell

GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION		PROCEDURE	
	OPR LIMITS	c	SWITCH POS	c
7.7	-15 to +15 mVrms ac (0 Vrms ac nominal)			TypeC <RTN> X <RTN> A <RTN> 0 <RTN> Observe DVM.
7.8	-15 to +15 mV dc (0 V dc nominal)			<u>SYNCRO Y OUTPUT TEST</u> When the SYNCRO Y output is set as indicated, the voltages at J1B4 with respect to J1L3 shall be as indicated. TypeC <RTN> Y <RTN> D <RTN> 0 <RTN> Connect DVM to J1B4 with J1L3 as a reference. Observe DVM.
7.9	+7.48 to +7.52 V dc (+7.5 V dc nominal)			TypeC <RTN> Y <RTN> D <RTN> 7.5 <RTN> Observe DVM.
7.10	-7.52 to -7.48 V dc (-7.5 V dc nominal)			TypeC <RTN> Y <RTN> D <RTN> -7.5 <RTN> Observe DVM.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

Honeywell

GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION		PROCEDURE	
	OPR LIMITS	c	SWITCH POS	c
7.11	+13.5 V dc or more			TypeC <RTN> Y <RTN> D <RTN> 15 <RTN> Observe DVM.
7.12	-13.5 V dc or less			TypeC <RTN> Y <RTN> D <RTN> -15 <RTN> Observe DVM.
7.13	+7.32 to +7.52 Vrms ac (+7.42 Vrms ac squarewave nominal)			TypeC <RTN> Y <RTN> A <RTN> 7.5 <RTN> Observe DVM.
7.14	-15 to +15 mVrms ac (0 Vrms ac nominal)			TypeC <RTN> Y <RTN> A <RTN> 0 <RTN> Observe DVM.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

Honeywell

GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION		PROCEDURE	
	OPR LIMITS	c	SWITCH POS	c
7.15	-15 to +15 mV dc (0 V dc nominal)			<u>OBS A OUTPUT TEST</u> When the OBS A output is set as indicated, the voltages at J1R3 with respect to J1L3 shall be as indicated. TypeO <RTN> A <RTN> D <RTN> 0 <RTN> Connect DVM to J1R3 with J1L3 as a reference. Observe DVM.
7.16	+7.48 to +7.52 V dc (+7.5 V dc nominal)			TypeO <RTN> A <RTN> D <RTN> 7.5 <RTN> Observe DVM.
7.17	-7.52 to -7.48 V dc (-7.5 V dc nominal)			TypeO <RTN> A <RTN> D <RTN> -7.5 <RTN> Observe DVM.
7.18	+13.5 V dc or more			TypeO <RTN> A <RTN> D <RTN> 15 <RTN> Observe DVM.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	c	TEST DESCRIPTION	SWITCH POS	c	WORK STEPS
7.19	-13.5 V dc or less					TypeO <RTN> A <RTN> D <RTN> -15 <RTN> Observe DVM.
7.20	+7.32 to +7.52 Vrms ac (+7.42 Vrms ac squarewave nominal)					TypeO <RTN> A <RTN> A <RTN> 7.5 <RTN> Observe DVM.
7.21	-15 to +15 mVrms ac (0 Vrms ac nominal)					TypeO <RTN> A <RTN> A <RTN> 0 <RTN> Observe DVM.
7.22	-15 to +15 mVrms ac (0 Vrms ac nominal)		<u>OBS B OUTPUT TEST</u> When the OBS B output is set as indicated, the voltages at J1S3 with respect to J1L3 shall be as indicated.			TypeO <RTN> B <RTN> D <RTN> 0 <RTN> Connect DVM to J1S3 with J1L3 as a reference. Observe DVM.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

Honeywell

GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	c	TEST DESCRIPTION	SWITCH POS	c	WORK STEPS
7.23	+7.48 to +7.52 V dc (+7.5 V dc nominal)					TypeO <RTN> B <RTN> D <RTN> 7.5 <RTN> Observe DVM.
7.24	-7.52 to -7.48 V dc (-7.5 V dc nominal)					TypeO <RTN> B <RTN> D <RTN> -7.5 <RTN> Observe DVM.
7.25	+13.5 V dc or more					TypeO <RTN> B <RTN> D <RTN> 15 <RTN> Observe DVM.
7.26	-13.5 V dc or less					TypeO <RTN> B <RTN> D <RTN> -15 <RTN> Observe DVM.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION		PROCEDURE	
	OPR LIMITS	c	SWITCH POS	c
7.27	+7.32 to +7.52 Vrms ac (+7.42 Vrms ac squarewave nominal)			TypeO <RTN> B <RTN> A <RTN> 7.5 <RTN> Observe DVM.
7.28	-15 to +15 mVrms ac (0 Vrms ac nominal)			TypeO <RTN> B <RTN> A <RTN> 0 <RTN> Observe DVM.
7.29	+21.1 to +26.9 V dc (+24 V dc nominal)			<u>0 - 30 V ANALOG 1,10 INPUT TEST</u> When J1F4 is jumpered to J1G1, the voltage shall be as specified referenced to 28V RTN, and the readings on the PC screen shall be as specified. Jumper J1F4 to J1G1. Connect the DVM to J1G1 with 28V RTN as a reference. Observe DVM.
7.30	within 0.1 V dc of DVM reading			TypeS <RTN> 9 <RTN> Observe 30V #1 reading on PC screen.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION		PROCEDURE	
	OPR LIMITS	c	SWITCH POS	c
7.31	within 0.1 V dc of DVM reading			TypeS <RTN> 26 <RTN> Observe 30V #10 reading on PC screen. Remove jumper.
7.32	+21.1 to +26.9 V dc (+24 V dc nominal)			<u>0 - 30 V ANALOG 2 INPUT TEST</u> When J1G4 is jumpered to J1G1, the voltage shall be as specified referenced to 28V RTN, and the readings on the PC screen shall be as specified. Jumper J1G4 to J1G1. Connect the DVM to J1G1 with 28V RTN as a reference. Observe DVM.
7.33	within 0.1 V dc of DVM reading			TypeS <RTN> 10 <RTN> Observe 30V #2 reading on PC screen. Remove jumper.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
7.34	+21.1 to +26.9 V dc (+24 V dc nominal)		<u>0 - 30 V ANALOG 3 INPUT TEST</u> When J1H4 is jumpered to J1G1, the voltage shall be as specified referenced to 28V RTN, and the readings on the PC screen shall be as specified.			Jumper J1H4 to J1G1. Connect the DVM to J1G1 with 28V RTN as a reference. Observe DVM.
7.35						Type S <RTN> 11 <RTN> Observe 30V #3 reading on PC screen.
7.36			<u>0 - 30 V ANALOG 7 INPUT TEST</u> When J1D1 is jumpered to J1G1, the voltage shall be as specified referenced to 28V RTN, and the readings on the PC screen shall be as specified.			Remove jumper. Jumper J1D1 to J1G1. Connect the DVM to J1G1 with 28V RTN as a reference. Observe DVM.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
7.37	within 0.1 V dc of DVM reading					Type S <RTN> 15 <RTN> Observe 30V #7 reading on PC screen. Remove jumper.
7.38			<u>0 - 30 V ANALOG 8</u> <u>INPUT TEST</u> When J1E1 is jumpered to J1G1, the voltage shall be as specified referenced to 28V RTN, and the readings on the PC screen shall be as specified.			Jumper J1E1 to J1G1. Connect the DVM to J1G1 with 28V RTN as a reference. Observe DVM.
7.39			+21.1 to +26.9 V dc (+24 V dc nominal)			Type S <RTN> 16 <RTN> Observe 30V #8 reading on PC screen. Remove jumper.
	within 0.1 V dc of DVM reading					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
7.40			<u>0 - 30 V ANALOG 4,9</u> <u>INPUT TEST</u>			Jumper J1J4 to J1F1. Connect the DVM to J1F1 with 28V RTN as a reference.
	+0.55 to +0.69 V dc (+0.62 V dc nominal)		When J1J4 is jumpered to J1F1, the voltage shall be as specified referenced to 28V RTN, and the readings on the PC screen shall be as specified.			Observe DVM.
7.41						Type S <RTN> 12 <RTN>
	within 0.1 V dc of DVM reading					Observe 30V #4 reading on PC screen.
7.42						Type S <RTN> 25 <RTN>
	within 0.1 V dc of DVM reading					Observe 30V #9 reading on PC screen.
						Remove jumper.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
7.43			<u>0 - 30 V ANALOG 5</u> <u>INPUT TEST</u>			Jumper J1K4 to J1F1. Connect the DVM to J1F1 with 28V RTN as a reference. Observe DVM.
	+0.55 to +0.69 V dc (+0.62 V dc nominal)		When J1K4 is jumpered to J1F1, the voltage shall be as specified referenced to 28V RTN, and the readings on the PC screen shall be as specified.			
7.44						Type S <RTN> 13 <RTN> Observe 30V #5 reading on PC screen.
	within 0.1 V dc of DVM reading					
7.45			<u>0 - 30 V ANALOG 6</u> <u>INPUT TEST</u>			Remove jumper.
	+0.55 to +0.69 V dc (+0.62 V dc nominal)		When J1C1 is jumpered to J1F1, the voltage shall be as specified referenced to 28V RTN, and the readings on the PC screen shall be as specified.			Jumper J1C1 to J1F1. Connect the DVM to J1F1 with 28V RTN as a reference. Observe DVM.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
7.46	within 0.1 V dc of DVM reading					Type S <RTN> 14 <RTN> Observe 30V #6 reading on PC screen. Remove jumper.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.0			<u>ANALOG WRAPAROUND SELF TEST</u> When the RTIU analog outputs are used to drive the RTIU differential analog inputs, the deviation from the readings of a DVM connected across the inputs shall be as specified.			In the following tests, connect the DVM to the specified test points differentially. Do not ground the L0 input unless otherwise specified.
8.1	Within 15 mV dc of each other.		<u>SYNC X #1 INPUT TEST</u> When voltages are applied to J1R5 and J1N5 using J1A4 and J1B4, the readings shall be as specified.			Connect a 1K resistor between J1R5 and J1A4. Connect another 1K resistor between J1N5 and J1B4. Connect the DVM to J1R5 with J1N5 as the reference. Type C <RTN> X <RTN> D <RTN> O <RTN> C <RTN> Y <RTN> D <RTN> O <RTN> S <RTN> I <RTN> Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the SYNC X #1 reading.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.2	Within 15 mV dc of each other.					Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the SYNC X #1 reading.
8.3						Remove jumper from J1L4 to -15V dc. Type C <RTN> X <RTN> D <RTN> 4 <RTN> C <RTN> Y <RTN> D <RTN> 12 <RTN> Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the SYNC X #1 reading.
8.4						Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the SYNC X #1 reading. Remove all jumpers and resistors.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.5			<u>SYNC Y #1 INPUT TEST</u> When voltages are applied to J1P5 and J1N5 using J1A4 and J1B4, the readings shall be as specified.			Connect a 1K resistor between J1P5 and J1A4. Connect another 1K resistor between J1N5 and J1B4. Connect the DVM to J1P5 with J1N5 as the reference. Type C <RTN> X <RTN> D <RTN> O <RTN> C <RTN> Y <RTN> D <RTN> O <RTN> S <RTN> 2 <RTN> Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the SYNC Y #1 reading.
8.6	Within 15 mV dc of each other.					Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the SYNC Y #1 reading.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.7						Remove jumper from J1L4 to -15 V dc. Type C <RTN> X <RTN> D <RTN> 4 <RTN> C <RTN> Y <RTN> D <RTN> 12 <RTN>
8.8	Within 45 mV dc of each other.					Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the SYNC Y #1 reading.
8.9	Within 45 mV dc of each other.		<u>SYNC X #2 INPUT TEST</u> When voltages are applied to J1D2 and J1F2 using J1A4 and J1B4, the readings shall be as specified.			Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the SYNC Y #1 reading. Remove all jumpers and resistors. Connect a 1K resistor between J1D2 and J1A4. Connect another 1K resistor between J1F2 and J1B4. Connect the DVM to J1D2 with J1F2 as the reference.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.10	Within 15 mV dc of each other.					Type C <RTN> X <RTN> D <RTN> O <RTN> C <RTN> Y <RTN> D <RTN> O <RTN> S <RTN> 3 <RTN> Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the SYNC X #2 reading. Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the SYNC X #2 reading.
8.11	Within 15 mV dc of each other.					Remove jumper from J1L4 to -15 V dc. Type C <RTN> X <RTN> D <RTN> 4 <RTN> C <RTN> Y <RTN> D <RTN> 12 <RTN>

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.12	Within 45 mV dc of each other.					Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the SYNC X #2 reading. Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading reading by - 1.111. Compare this value to the SYNC X #2 reading.
8.13	Within 45 mV dc of each other.		<u>SYNC Y #2 INPUT TEST</u> When voltages are applied to J1E2 and J1F2 using J1A4 and J1B4, the readings shall be as specified.			Remove all jumpers and resistors. Connect a 1K resistor between J1E2 and J1A4. Connect another 1K resistor between J1F2 and J1B4. Connect the DVM to J1E2 with J1F2 as the reference. Type C <RTN> X <RTN> D <RTN> O <RTN> C <RTN> Y <RTN> D <RTN> O <RTN> S <RTN> 4 <RTN>

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.14	Within 15 mV dc of each other.					Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the SYNC Y #2 reading. Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the SYNC Y #2 reading.
8.15	Within 15 mV dc of each other.					Remove jumper from J1L4 to -15 V dc. Type C <RTN> X <RTN> D <RTN> 4 <RTN> C <RTN> Y <RTN> D <RTN> 12 <RTN> Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the SYNC Y #2 reading.
	Within 45 mV dc of each other.					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.16	Within 45 mV dc of each other.					Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the SYNC Y #2 reading.
8.17			<u>OBS X INPUT TEST</u> When voltages are applied to J1G2 and J1J2 using J1R3 and J1S3, the readings shall be as specified.			Remove all jumpers and resistors. Connect a 1K resistor between J1G2 and J1R3. Connect another 1K resistor between J1J2 and J1S3. Connect the DVM to J1G2 with J1J2 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0 <RTN> 0 <RTN> B <RTN> D <RTN> 0 <RTN> S <RTN> 5 <RTN> Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the OBS X reading.
	Within 15 mV dc of each other.					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.18	Within 15 mV dc of each other.					Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc.
8.19						Multiply DVM reading by -1.111. Compare this value to the OBS X reading.
8.20						Remove jumper from J1L4 to -15 V dc.
	Within 45 mV dc of each other.					Type 0 <RTN> A <RTN> D <RTN> 4 <RTN> 0 <RTN> B <RTN> D <RTN> 12 <RTN>
						Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the OBS X reading.
						Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the OBS X reading.
	Within 45 mV dc of each other.					Remove all jumpers and resistors.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.21			<u>OBS Y INPUT TEST</u> When voltages are applied to J1H2 and J1J2 using J1R3 and J1S3, the readings shall be as specified.			Connect a 1K resistor between J1H2 and J1R3. Connect another 1K resistor between J1J2 and J1S3. Connect the DVM to J1H2 with J1J2 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0 <RTN> 0 <RTN> B <RTN> D <RTN> 0 <RTN> S <RTN> 6 <RTN> Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the OBS Y reading.
8.22	Within 15 mV dc of each other.					Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the OBS Y reading. Remove jumper from J1L4 to -15 V dc.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.23						Type 0 <RTN> A <RTN> D <RTN> 4 <RTN> 0 <RTN> B <RTN> D <RTN> 12 <RTN>
	Within 45 mV dc of each other.					Jumper J1L4 to +15 V dc. Multiply DVM reading by 1.111. Compare this value to the OBS Y reading.
8.24						Remove jumper from J1L4 to +15 V dc and jumper J1L4 to -15 V dc. Multiply DVM reading by -1.111. Compare this value to the OBS Y reading.
	Within 45 mV dc of each other.					Remove all jumpers and resistors.
8.25			<u>7.5V #1 INPUT TEST</u> When voltages are applied to J1H1 and J1K1 using J1R3 and J1S3, the readings shall be as specified.			Connect a 1K resistor between J1H1 and J1R3. Connect another 1K resistor between J1K1 and J1S3. Connect the DVM to J1H1 with J1K1 as the reference.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.26	Within 7.5 mV dc of DVM reading.					Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 17<RTN> Compare 7.5V #1 reading to DVM reading.
	Within 23 mV dc of DVM reading.					Type 0 <RTN> A <RTN> D <RTN> 12 <RTN> 0 <RTN> B <RTN> D <RTN> 8 <RTN> Compare 7.5V #1 reading to DVM reading. Remove the two resistors. Disconnect the DVM.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.27			<u>7.5V #2 INPUT TEST</u> When voltages are applied to J1J1 and J1K1 using J1R3 and J1S3, the readings shall be as specified.			Connect a 1K resistor between J1J1 and J1R3. Connect another 1K resistor between J1K1 and J1S3. Connect the DVM to J1J1 with J1K1 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 18 <RTN> Compare 7.5V #2 reading to DVM reading.
8.28	Within 7.5 mV dc of DVM reading.					Type 0 <RTN> A <RTN> D <RTN> 12 <RTN> 0 <RTN> B <RTN> D <RTN> 8 <RTN> Compare 7.5V #2 reading to DVM reading.
	Within 23 mV dc of DVM reading.					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.29			<u>20V #1 INPUT TEST</u> When voltages are applied to J1T3 and J1V3 using J1R3 and J1S3, the readings shall be as specified.			Remove the two resistors. Disconnect the DVM. Connect a 1K resistor between J1T3 and J1R3. Connect another 1K resistor between J1V3 and J1S3. Connect the DVM to J1T3 with J1V3 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 21 <RTN>
8.30	Within 20 mV dc of DVM reading.					Compare 20V #1 reading to DVM reading. Type 0 <RTN> A <RTN> D <RTN> 12 <RTN> 0 <RTN> B <RTN> D <RTN> 8 <RTN>
	Within 60 mV dc of DVM reading.					Compare 20V #1 reading to DVM reading.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.31			<u>20 V #2 INPUT TEST</u> When voltages are applied to J1U3 and J1V3 using J1R3 and J1S3, the readings shall be as specified.			Remove the two resistors. Disconnect the DVM. Connect a 1K resistor between J1U3 and J1R3. Connect another 1K resistor between J1V3 and J1S3. Connect the DVM to J1U3 with J1V3 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 22<RTN>
	Within 20 mV dc of DVM reading.					Compare 20V #2 reading to DVM reading.
8.32						Type 0 <RTN> A <RTN> D <RTN> 12 <RTN> 0 <RTN> B <RTN> D <RTN> 8 <RTN>
	Within 60 mV dc of DVM reading.					Compare 20V #2 reading to DVM reading.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.33			<u>15V #1 INPUT TEST</u> When voltages are applied to J1M3 and J1P3 using J1R3 and J1S3, the readings shall be as specified.			Remove the two resistors. Disconnect the DVM. Connect a 1K resistor between J1M3 and J1R3. Connect another 1K resistor between J1P3 and J1S3. Connect the DVM to J1M3 with J1P3 as the reference.
	Within 15 mV dc of DVM reading.					Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 19 <RTN>
8.34						Compare 15V #1 reading to DVM reading. Type 0 <RTN> A <RTN> D <RTN> 12 <RTN> 0 <RTN> B <RTN> D <RTN> 8 <RTN>
	Within 45 mV dc of DVM reading.					Compare 15V #1 reading to DVM reading.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.35			<u>15V #2 INPUT TEST</u> When voltages are applied to J1N3 and J1P3 using J1R3 and J1S3, the readings shall be as specified.			Remove the two resistors. Disconnect the DVM. Connect a 1K resistor between J1N3 and J1R3. Connect another 1K resistor between J1P3 and J1S3. Connect the DVM to J1N3 with J1P3 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 20 <RTN>
8.36	Within 15 mV dc of DVM reading.					Compare 15V #2 reading to DVM reading. Type 0 <RTN> A <RTN> D <RTN> 12 <RTN> 0 <RTN> B <RTN> D <RTN> 8 <RTN>

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.37	Within 45 mV dc of DVM reading.		<u>15V #3 INPUT TEST</u> When voltages are applied to J1L6 and J1N6 using J1R3 and J1S3, the readings shall be as specified.			Compare 15V #2 reading to DVM reading. Remove the two resistors. Disconnect the DVM. Connect a 1K resistor between J1L6 and J1R3. Connect another 1K resistor between J1N6 and J1S3. Connect the DVM to J1L6 with J1N6 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> O <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 23<RTN> Compare 15V #3 reading to DVM reading.
	Within 15 mV dc of DVM reading.					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.38	Within 45 mV dc of DVM reading.					Type 0 <RTN> A <RTN> D <RTN> 12 <RTN> 0 <RTN> B <RTN> D <RTN> 8 <RTN> Compare 15V #3 reading to DVM reading. Remove the two resistors. Disconnect the DVM.
8.39			<u>15V #4 INPUT TEST</u> When voltages are applied to J1M6 and J1N6 using J1R3 and J1S3, the readings shall be as specified.			Connect a 1K resistor between J1M6 and J1R3. Connect another 1K resistor between J1N6 and J1S3. Connect the DVM to J1M6 with J1N6 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 24 <RTN>

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.40	Within 15 mV dc of DVM reading.					Compare 15V #4 reading to DVM reading. Type 0 <RTN> A <RTN> D <RTN> 12 <RTN> 0 <RTN> B <RTN> D <RTN> 8 <RTN> Compare 15V #4 reading to DVM reading. Remove the two resistors. Disconnect the DVM.
	Within 15 mV dc of DVM reading.					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.41			<u>0.833V #1 INPUT TEST</u> When voltages are applied to J1R6 and J1P6 using J1R3 and J1S3, the readings shall be as specified.			Connect a 1K resistor between J1R6 and J1R3. Connect another 1K resistor between J1P6 and J1S3. Connect the DVM to J1R6 with J1P6 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 27 <RTN> Compare 0.833V #1 reading to DVM reading.
8.42	Within 0.8 mV dc of DVM reading.					Type 0 <RTN> A <RTN> D <RTN> 7.5 <RTN> 0 <RTN> B <RTN> D <RTN> 7 <RTN> Compare 0.833V #1 reading to DVM reading. Remove the two resistors. Disconnect the DVM.
	Within 2 mV dc of DVM reading.					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.43			<u>0.833V #2 INPUT TEST</u> When voltages are applied to J1T6 and J1S6 using J1R3 and J1S3, the readings shall be as specified.			Connect a 1K resistor between J1T6 and J1R3. Connect another 1K resistor between J1S6 and J1S3. Connect the DVM to J1T6 with J1S6 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 28<RTN>
	Within 0.8 mV dc of DVM reading.					Compare 0.833V #2 reading to DVM reading.
8.44						Type 0 <RTN> A <RTN> D <RTN> 7.5 <RTN> 0 <RTN> B <RTN> D <RTN> 7 <RTN>
	Within 2 mV dc of DVM reading.					Compare 0.833V #2 reading to DVM reading.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.45			<u>0.833V #3 INPUT TEST</u> When voltages are applied to J1V6 and J1U6 using J1R3 and J1S3, the readings shall be as specified.			Remove the two resistors. Disconnect the DVM. Connect a 1K resistor between J1V6 and J1R3. Connect another 1K resistor between J1U6 and J1S3. Connect the DVM to J1V6 with J1U6 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 29<RTN> Compare 0.833V #3 reading to DVM reading.
8.46	Within 0.8 mV dc of DVM reading. Within 2 mV dc of DVM reading.					Type 0 <RTN> A <RTN> D <RTN> 7.5 <RTN> 0 <RTN> B <RTN> D <RTN> 7 <RTN> Compare 0.833V #3 reading to DVM reading.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.47			<u>0.833V #4 INPUT TEST</u> When voltages are applied to J1M5 and J1L5 using J1R3 and J1S3, the readings shall be as specified.			Remove the two resistors. Disconnect the DVM. Connect a 1K resistor between J1M5 and J1R3. Connect another 1K resistor between J1L5 and J1S3. Connect the DVM to J1M5 with J1L5 as the reference. Type 0 <RTN> A <RTN> D <RTN> 0.0 <RTN> 0 <RTN> B <RTN> D <RTN> 0.0 <RTN> S <RTN> 30 <RTN>
8.48	Within 0.8 mV dc of DVM reading.					Compare 0.833V #4 reading to DVM reading. Type 0 <RTN> A <RTN> D <RTN> 7.5 <RTN> 0 <RTN> B <RTN> D <RTN> 7 <RTN>
	Within 2 mV dc of DVM reading.					Compare 0.833V #4 reading to DVM reading.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
8.49			<u>LIMITER REFERENCE TESTS</u> The voltage limiter references shall be as specified.			Remove the two resistors. Disconnect the DVM.
8.50	+4.75 to +4.85 V dc (+4.80 V dc nominal)					Type S <RTN> 7 <RTN> Observe 4.8V REF reading.
8.51	+0.15 to +0.25 V dc (+0.20 V dc nominal)		<u>AUDIO LEVEL TEST</u> The audio level reading shall be as specified with no input.			Type S <RTN> 32 <RTN> Observe 0.2V REF reading.
	0.03 V dc or less					Type S <RTN> 31 <RTN> Observe audio reading.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION		PROCEDURE	
	OPR LIMITS	c	SWITCH POS	c
8.52	Within 0.05 V ac of each other.		CB2-OFF CB3-OFF	Connect the Audio Analyzer output to the AUDIO IN BNC jack. Adjust for 5 VRMS dc at 1000 Hertz. Connect the Audio Analyzer input to the AUDIO OUT BNC jack. Compare the Audio Analyzer audio level reading with the reading to the right of AUDIO on the PC screen. Type E <RTN> 7 <RTN> Disconnect the Audio Analyzer. Disconnect the Self-Test Harness.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

Honeywell

GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

TEST NO.	SPECIFICATION		PROCEDURE	
	OPR LIMITS	c TEST DESCRIPTION	SWITCH POS c	WORK STEPS
9.0		<u>COM CLUSTER RSB, FAN, AND STRAPS TEST</u> The operation of the RSB communications, the strap simulation, and the fan simulation shall be verified. For 7512001-118 or later software only.		Connect the COM cluster and harness to the RTIU. Type 15 <RTN> Type 1 <RTN> Wait until the RTIU is initialized. Type S <RTN> 40 <RTN> Jumper J2A3 to J2A6.
9.1	VALD	<u>RCB WRAPAROUND TEST</u> The RCB wraparound connections shall provide the indications specified.	CB2-ON	Wait 10 seconds. Type H <RTN> T <RTN> Observe STRAP status.
9.2	BNCH			Observe CLU OPMODE.
9.3	(blank)			Observe CLU DATA.
9.4	2A			Observe BENCH CMD.
9.5	RCB3 RCB4 RCB5 RCB6			Observe INSTALLED RADIOS.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
9.6	TDR RCB3 RCB4 RCB5 RCB6					Remove jumper from J2A3 to J2A6. Observe INSTALLED RADIOS.
9.7	COM TDR RCB3 RCB4 RB5 RCB6					Remove harness Connector P4 from COM cluster. Observe INSTALLED RADIOS.
9.8	RCB3 RCB4 RCB5 RCB6					Reinstall harness connector P4 on COM cluster. Jumper J2A3 to J2A6. Observe INSTALLED RADIOS.
9.9			<u>STRAP TEST</u> The strap simulation shall provide the indications specified.			Type S <RTN> 40 <RTN> Observe RSB source wire 40 indication. Observe STRAP STATUS.
9.10	0 VALD					Type P <RTN> S <RTN> 4 <RTN>
9.11				CB2-OFF CB2-ON		Wait 5 seconds. After 10 seconds, observe STRAP STATUS.
	INVL					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
9.12						Type S <RTN> 40 <RTN>
	VALD			CB2-OFF CB2-ON		Wait 5 seconds. After 10 seconds, observe STRAP STATUS.
9.13			<u>FAN CIRCUIT TEST</u> The fan simulation shall provide the indications specified.			Type H <RTN> F <RTN>
	FAN ON					Observe CLU DATA
9.14	20					Observe BENCH CMD
9.15	+18 V dc or more					Observe FAN SUPPLY
9.16	+5 V dc or less					Observe FAN RETURN
9.17				Type Y <RTN> 0.0 <RTN>		
	FAN OFF					Observe CLU DATA
9.18	+6 V dc or more					Observe FAN RETURN
9.19						Type Y <RTN> 120 <RTN>
	FAN ON					Observe CLU DATA
9.20						Type F <RTN>
	FAN OFF					Observe CLU DATA
9.21						Type F <RTN>
	FAN ON					Observe CLU DATA

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
9.22	No errors appear		<u>RSB TEST</u> The RSB communications shall operate as indicated, with no errors in any tested configuration.			Type P <RTN> B <RTN> T <RTN> B <RTN> B <RTN> R <RTN> B <RTN> Observe the error message area on the PC screen.
9.23			With only the primary RSB bus selected, and a 10 ohm resistor between RSB PRIMARY HI and RSB PRIMARY LO, no errors shall occur.			Connect a 10 ohm resistor between RSB PRIMARY HI and RSB PRIMARY LO on the RTIU front panel. Type B <RTN> T <RTN> P <RTN> B <RTN> R <RTN> P <RTN> Observe the error message area.

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
9.24			The differential peak to peak bus voltage shall be as indicated when measured between RSB PRIMARY HI and RSB PRIMARY LO.			Connect an oscilloscope to the RSB PRIMARY HI and RSB PRIMARY LO jacks per Appendix A, Figure A-1. Set up the oscilloscope per Appendix A with Volts/Div changed to 100 mV for CH1 and CH2, Sec/Div changed to 100 μ S, and TRIGGER SOURCE changed to VERT, if necessary for stable trigger. Measure the differential peak to peak bus voltage on the oscilloscope as shown in Appendix A, Figure A-1. The voltage shall be
9.25	0.52 V p-p or more		With the RTIU transmitting on the primary bus, and receiving on the secondary bus, no errors shall occur.			Remove the oscilloscope and 10 ohm resistor from the RSB PRIMARY HI and RSB PRIMARY LO jacks. Type B <RTN> T <RTN> P <RTN> B <RTN> R <RTN> S <RTN> Observe the error message area.
	No errors appear					

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
9.26	No errors appear		With the RTIU transmitting on the secondary bus and receiving on the primary bus, no errors shall occur.			Type B <RTN> T <RTN> S <RTN> B <RTN> R <RTN> P <RTN> Observe the error message area.
9.27			With only the secondary RSB bus selected, and a 10 ohm resistor between RSB SEC L HI and RSB SEC L LO, no errors shall occur.			Connect a 10 ohm resistor between RSB SEC L HI and RSB SEC L LO on the RTIU front panel. Type B <RTN> T <RTN> S <RTN> B <RTN> R <RTN> S <RTN> Observe the error message area.
9.28	0.52 V p-p or more		The differential peak to peak bus voltage shall be as indicated when measured between RSB SEL L HI and RSB SEL L LO.			Connect the oscilloscope to the RSB SEC L HI and RSB SEC L LO jacks per Appendix A, Figure A-1. Set up the oscilloscope and measure the differential peak to peak RSB SEC L bus voltage as in test 9.24. The voltage shall be

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
9.29	No errors appear		When normal communication is restored, no errors shall occur.			Remove the oscilloscope and 10 ohm resistor from the RSB SEC L HI and RSB SEC L LO jacks. Type B <RTN> T <RTN> B <RTN> B <RTN> R <RTN> B <RTN> Observe the error message area
9.30			<u>RSB PRIMARY DROOP TEST</u> When set up and measured according to Appendix A, the droop in the off time of the RSB Primary bus shall be as indicated.			Connect the oscilloscope to the RSB PRIMARY HI and RSB PRIMARY LO jacks on the front panel of the RTIU per Appendix A, Figure A-1. Set up the oscilloscope per Appendix A with Sec/Div changed to 50 μ S or 200 μ S and TRIGGER SOURCE changed to VERT, as necessary for stable trigger and measurement of the droop. Using Figures A-3 and A-4 as examples, measure the droop in the off time of the pulse train.
9.31	70 mV or less		<u>RSB SEC L DROOP TEST</u>			

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

TEST NO.	SPECIFICATION			PROCEDURE		
	OPR LIMITS	C	TEST DESCRIPTION	SWITCH POS	C	WORK STEPS
9.32	70 mV or less		When set up and measured according to Appendix A, the droop in the off time of the RSB SEC L bus shall be as indicated.			Disconnect the oscilloscope from the RSB PRIMARY jacks and connect it to the RSB SEC L HI and RSB SEC L LO jacks on the front panel of the RTIU per Appendix A, Figure A-1. Set up the oscilloscope and measure the droop in the off time of the pulse train as in test 9.30. Disconnect the oscilloscope. Type E <RTN>
10.0			POWER DOWN END OF TEST	CB2-OFF CB1-OFF PC-OFF		Disconnect the jumper, COM cluster and harness from the RTIU. Turn off RTIU Turn off PC END OF TEST

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

APPENDIX A
DROOP AND PEAK TO PEAK VOLTAGE TEST SETUP AND MEASUREMENT PROCEDURE

RTIU Self-Test and Calibration Procedure
Table 1 (cont)

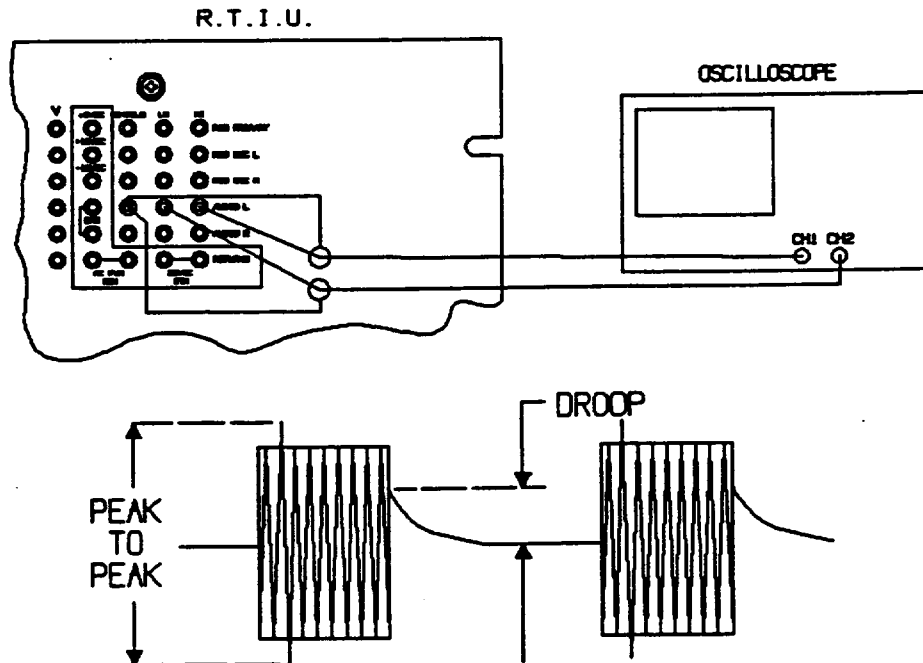
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APPENDIX A DROOP AND PEAK TO PEAK VOLTAGE TEST SETUP AND MEASUREMENT PROCEDURE

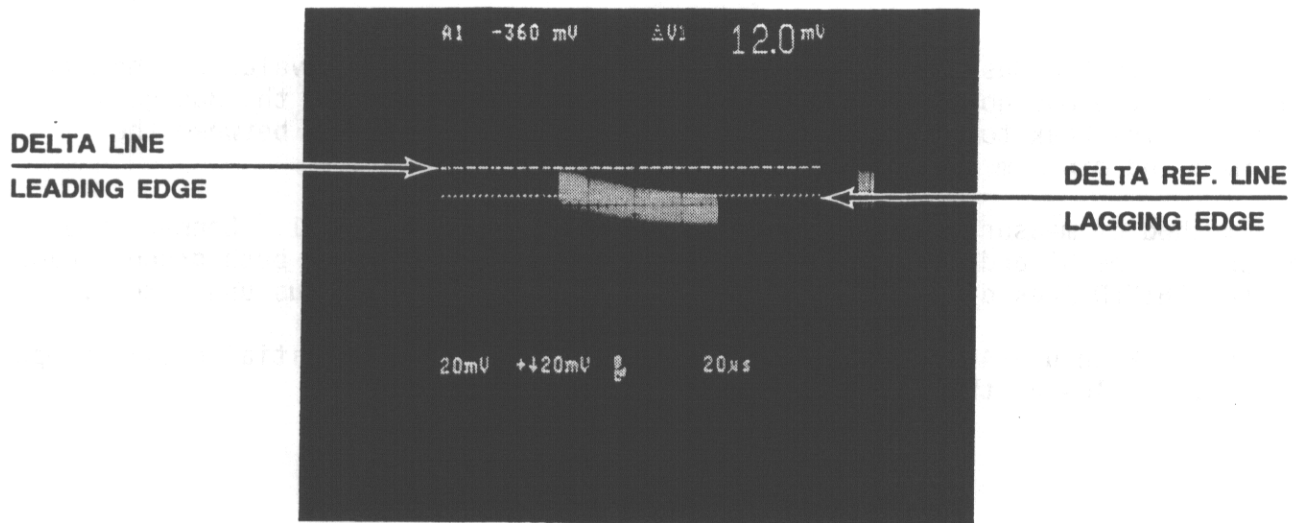
The Droop in the Bus Off Time is defined as the change in the value of the Bus from when the Bus goes into Tri-State to the value just before the Bus goes active. The Peak to Peak voltage is defined as the difference between the maximum and minimum voltages seen in the waveform.

One method of measuring these parameters is shown in Figure A-1. Connect the probes to the HI and LO jacks for the bus under test. Connect both ground leads to the SHIELD jack directly to the left of the jacks for the bus under test.

Figures A-2 thru A-4 illustrate actual droop readings. The initial oscilloscope settings follow at the end of this appendix.

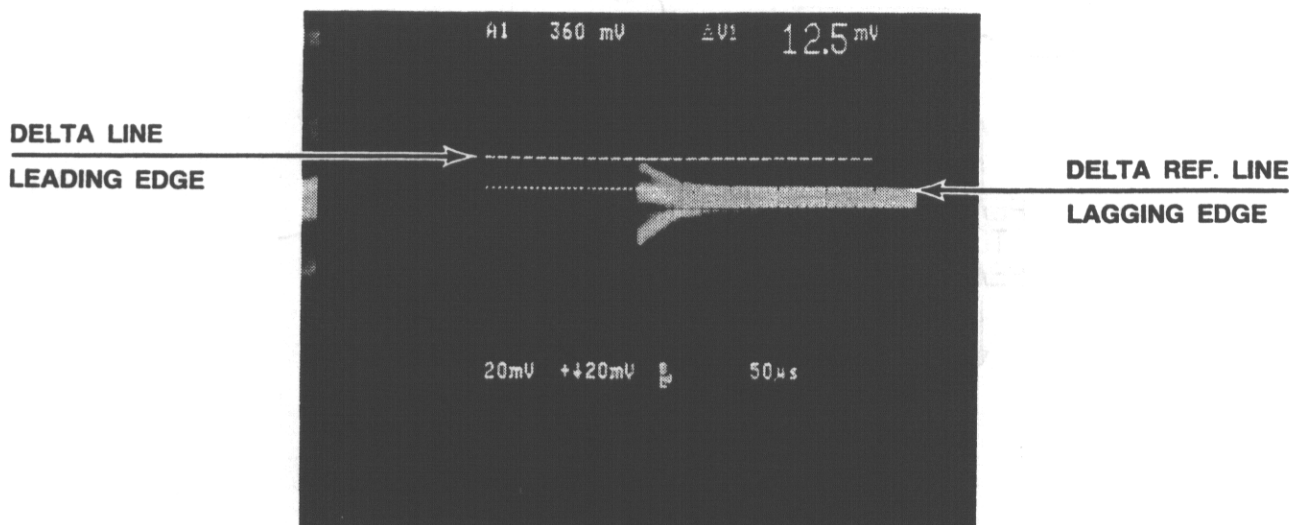


Test Setup
Figure A-1



AD-19240

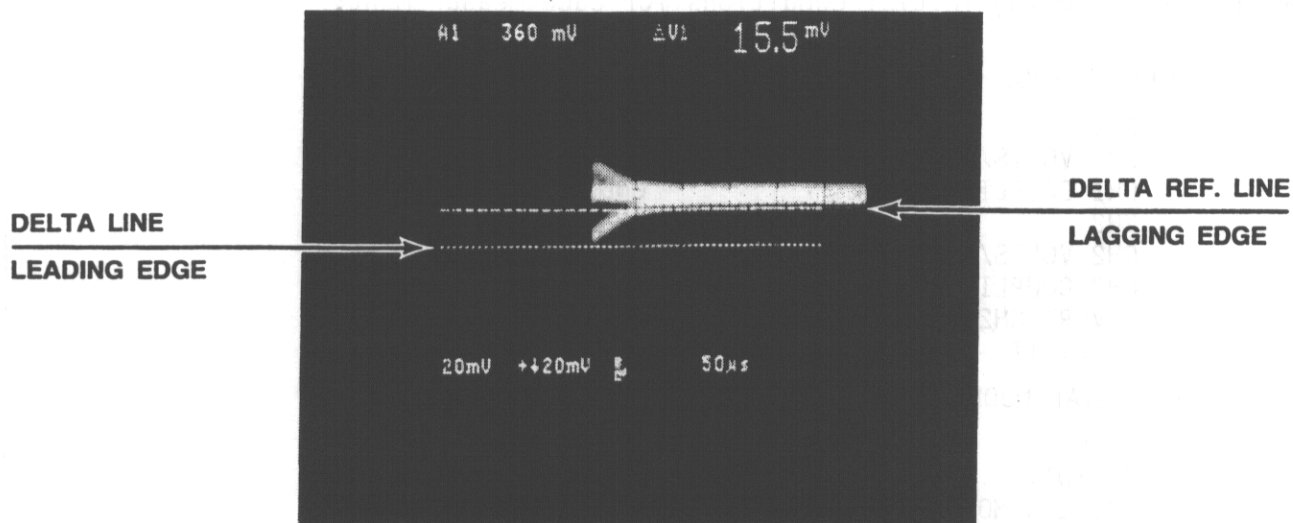
Figure A-2



AD-19241

Figure A-3

RTIU Self-Test and Calibration Procedure
Table 1 (cont)



AD-19242

Figure A-4

NOTE: When measuring droop, always take the worse case condition. Figure A-4 indicates worse case droop with 15.5 mV.

Initial Oscilloscope Settings

Set up the following initial conditions for each measurement:

VERTICAL MODE

CH1	ON
CH1 VOLTS/DIV	20 mV
CH1 COUPLING	GND
CH2	ON
CH2 VOLTS/DIV	20 mV
CH2 COUPLING	GND
INVERT CH2	ON
BW LIMIT	ON

HORIZONTAL MODE

SWEEP	A SWP
SEC/DIV	20 μ s
TRIGGER MODE	A AUTO
TRIGGER SOURCE	CH1
TRIGGER COUPLING	DC
TRIGGER SLOPE	+
TRIGGER LEVEL	+250 mV

Center the CH1 and CH2 traces individually, then select the following:

VERTICAL MODE

CH1 COUPLING	DC, 1M ohm
CH2 COUPLING	DC, 1M ohm
CH1	OFF
CH2	OFF
ADD	ON

HORIZONTAL MODE

TRIGGER LEVEL	ADJUST TRIGGER LEVEL TO ANY POINT BETWEEN +100 mV AND +360 mV THAT PROVIDES A STABLE TRIGGER
---------------	--

CURSORS

DELTA V	ON
---------	----

Use the Delta V cursors to measure the necessary parameters.

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

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ILLUSTRATED PARTS LIST

1. Overview

A. Introduction

- (1) The IPL gives the parts that are used to make the product identified on the title page (T-1). It also supplies the necessary data to get replacement parts for repair and fault isolation.
- (2) The list of parts is given in general disassembly sequence. The illustrations show where you can find each part and are an important aid in disassembly and assembly procedures.

B. How to Find a Part

- (1) If the Part Number is known, refer to the Numerical Index to find the figure and item numbers in the Parts List.
- (2) If the equipment designator is known, refer to the Equipment Designator Index to find the figure and item numbers in the Parts List.
- (3) After you get the figure and item number, refer to the Parts List for more identification data.

2. Contents of the IPL

A. List of Suppliers

- (1) The names and addresses of companies that supply the items included in the Parts List are shown in the List of Suppliers. Refer to List of Suppliers, paragraph 3.
- (2) The supplier CAGE code is given in the Nomenclature column of the Parts List to identify the supplier.

B. Equipment Designator Index

- (1) The Equipment Designator Index is an alphanumeric list of the equipment designators given to the subassemblies and electrical/electronic parts. The designators are an aid to identify parts on the schematics and wiring diagrams. Refer to Equipment Designator Index, paragraph 4.
- (2) Each entry in the Equipment Designator Index identifies the figure and item numbers where the part is found in the Parts List. The Equipment Designator Index may also identify a geographical location of the equipment designator found on the graphic illustration. A hyphen between two designators shows a continuous sequence of designators (example: A1-A5 is the same as A1 thru A5).

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C. Numerical Index

- (1) The Numerical Index is an alphanumeric list of all the Part Numbers shown in the Part Number column of the Parts List. Refer to Numerical Index, paragraph 5.
- (2) Also included in the index are the Honeywell Part Numbers that are equivalent to the manufacturer Part Number. Optional manufacturer Part Numbers are not included in the index.
- (3) The Fig. Item column gives all of the locations of a part. If a Part Number is in more than one Fig. Item location, the Part Number is shown only one time in the Part Number column.
- (4) The Total Req column shows the total number of parts that are used at each Fig. Item location.
- (5) The Airline Stock No. column has space for customers to use.

D. Parts List

- (1) An item number is given to each part in the Parts List and on the related figure. The item numbers show the general disassembly sequence. Refer to Parts List, paragraph 6.
- (2) Some of the parts are not shown on a figure, such as a fully assembled item, an unprogrammed microcircuit, and a selection of resistors. Items that are not illustrated have a dash before the item number in the Parts List.
- (3) An item number with a letter suffix (A thru Z except I and O) shows any one of these conditions has occurred:
 - A modification (by a service bulletin)
 - A change in configuration from the initial item
 - A change to a better part (no service bulletin)
 - Accommodation was made for a disassembly sequence.
- (4) The Part Number column shows the Part Number given by the primary source of the part, either Honeywell or a commercial supplier, or the Part Number of a U.S. standard part. When this column shows the Part Number of a commercial supplier or a U.S. standard part, the Nomenclature column may show the Honeywell Part Number. When this column shows the Honeywell Part Number for ordinary commercial hardware, the Nomenclature column gives a description of the part.
- (5) The Airline Stock No. column has space for customers to use.

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- (6) The Nomenclature column gives the applicable name for each assembly, subassembly, and part. The indentation of the Nomenclature data is used to show the relation of an item to the other items in the Parts List. Other data that may be shown in this column is as follows:
- Shows optional manufacturer Part Numbers (OPT MFG PN) with their supplier code when there is more than one supplier of a part. At the first location of a part with more than one source of supply, the applicable OPT MFG PN data is shown. Any subsequent locations of the same part refer to the first location for the OPT MFG PN.
 - Identifies parts that are electrostatic discharge sensitive with the identification (ESDS). Refer to the special precautions in the INTRODUCTION of this manual.
 - Identifies parts that can have dangerous effects with the warning ***HAZARDOUS MATERIAL***. Refer to the special precautions in the INTRODUCTION of this manual.
 - Identifies parts for selection with the words “SEL FR PN MADE BY” These parts are commercially supplied, but Honeywell examines them and selects those that have the necessary quality. Parts for replacement must come from Honeywell.
 - Identifies parts that are airworthiness critical with the identification (AIRWORTHINESS CRITICAL ITEM). Refer to the special precautions in the INTRODUCTION of this manual.
 - Identifies parts that are moisture sensitive with the identification ***MOISTURE SENSITIVE***. Refer to the special precautions in the INTRODUCTION of this manual.
 - Identifies parts that can be used when the recommended part is not available.
 - The Nomenclature column of the Parts List shows a supplier code with the letter V before it. This code (from *Cataloging Handbook H4/H8, Commercial and Government Entity (CAGE), Sections A and B*) identifies where to get the specified item.
 - No supplier code is shown in the Nomenclature column of the Parts List if one of these conditions is applicable:
 - The item is a U.S. standard part.
 - Honeywell is the supplier.

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- (7) The parts replacement words, in the NOMENCLATURE column, tell if one part replaces another as follows:
- OPTIONAL indicates a part is an optional alternative to other parts in the same item number variant group.
 - SUPSD BY shows the part in the PART NUMBER column is replaced by and is not interchangeable with the item number shown in the note.
 - SUPSD shows the part in the PART NUMBER column replaces and is not interchangeable with the item number shown in the note.
 - REPL BY shows the part in the PART NUMBER column is replaced by and is interchangeable with the item number shown in the note.
 - REPL shows the part in the PART NUMBER column replaces and is interchangeable with the item number shown in the note.
 - MAY BE SUBST shows the part in the NOMENCLATURE column with its supplier code is an acceptable substitute for the part in the PART NUMBER column.
 - PRE SB XXXX indicates the part is used if service bulletin XXXX was not done.
 - POST SB XXXX indicates the part is used if service bulletin XXXX was done.
 - NON-REPAIRABLE indicates the part cannot be repaired.
 - NON-PROCURABLE indicates the part cannot be purchased.
- (8) The Eff Code column identifies differences in specific configurations of the top assembly in each figure:
- If this column is empty, the part is used in all configurations of the top assembly for that figure.
 - If this column has a letter code in it, the part is only used in the configuration of the top assembly that has the same letter code.
 - If this column has more than one letter code, the part is used in each top assembly with any of the same letter codes.
- (9) The Units Per Assy column shows the quantity of each part that is used in the next higher assembly. The letters AR are an indication that the quantity changes as necessary. The letters RF identify a reference item.

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Radio Test Interface Unit / Part No. 7511400

3. List of Suppliers

<u>Code</u>	<u>Manufacturer</u>	<u>Code</u>	<u>Manufacturer</u>
00141	PRECISION INDUSTRIAL COMPONENTS LLC DBA PIC DESIGN P O BOX 1004 MIDDLEBURY, CT 06762	07933	FAIRCHILD SEMICONDUCTOR CORP SEMICONDUCTOR DIV HQ 3001 ORCHARD PKWY SAN JOSE, CA 95137-2017
00213	MSD INC 700 ORANGE ST DARLINGTON, SC 29532	09353	C AND K COMPONENTS INC 57 STANLEY AVE WATERTOWN, MA 02172
00779	TYCO ELECTRONICS CORP 2800 FULLING MILL RD MAIL STOP 38-77 MIDDLETOWN, PA 17057-3608	09772	WEST COAST LOCKWASHERS CO INC 16730 E JOHNSON DR HACIENDA HEIGHTS, CA 91745
01295	TEXAS INSTRUMENTS INC SEMICONDUCTOR GROUP DIV 6414 HWY 75 SOUTH SHERMAN, TX 75090-9493	09969	VISHAY DALE ELECTRONICS 1505 E HIGHWAY 50 P O BOX 180 YANKTON, SD 57078-1505
01884	SPRAGUE ELECTRIC CO FILM CAPACITOR DIV 1201 N HWY 17/92 P O BOX 1076 LONGWOOD, FL 32750-1076	OCVK3	ALLEGRO MICROSYSTEMS INC 115 NORTHEAST CUTOFF P O BOX 2036 WORCESTER, MA 01606
04213	CADDELL-BURNS MFG CO INC 258 E SECOND ST MINEOLA, NY 11501	ON2P9	OKI SEMICONDUCTOR INC 785 N MARY AVE SUNNYVALE, CA 94086-2909
04222	AVX CORP AVX CERAMICS DIV P O BOX 867 801 17TH AVE S MYRTLE BEACH, SC 29578-0867	OS4G1	PRECISION DEVICES INC 8840 N GREENVIEW DR P O BOX 620155 MIDDLETON, WI 53562-0155
04713	FREESCALE SEMICONDUCTOR INC 6501 WILLIAM CANNON DR W AUSTIN, TX 78735 - 8523	11236	CTS CORP BERNE DIV THICK FILM PRODUCTS GROUP 406 PARR ROAD BERNE, IN 46711-9506
06090	TYCO ELECTRONICS/RAYCHEM DBA RAYCHEM DIV ELECTRONICS 300 CONSTITUTION DRIVE MENLO PARK, CA 94025-1164	11502	INTERNATIONAL RESISTIVE CO INC GREENWAY ROAD P O BOX 1860 BOONE, NC 28607-1860
06416	PACIFIC RESISTOR CO 18300 OXNARD ST TARZANA, CA 91356-1502	12324	DUPREE INC STAKE FASTENER CO DIV 14395 RAMONA P O BOX 1797 CHINO, CA 91708-1797
		12954	MICROSEMI CORPORATION 8700 E THOMAS RD SCOTTSDALE, AZ 85251-5073

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<u>Code</u>	<u>Manufacturer</u>	<u>Code</u>	<u>Manufacturer</u>
12969	MICRO USPD INC 580 PLEASANT ST WATERTOWN, MA 02472-2408	23875	M-TRON INDUSTRIES INC 100 DOUGLAS AVE P O BOX 630 YANKTON, SD 57078-0630
14552	MICROSEMI CORPORATION 2381 MORSE AVENUE IRVINE, CA 92614-6279	23880	STANFORD APPLIED ENGINEERING IN 340 MARTIN AVE SANTA CLARA, CA 95050-3112
14726	WEARNES HOLLINGSWORTH CORP 1601 N POWERLINE RD POMPANO BEACH, FL 33069-1622	23936	WILLIAM J PURDY CO INTERFAN DIV 770 AIRPORT BLVD BURLINGAME, CA 94010-1927
14936	GENERAL SEMICONDUCTOR INC 10 MELVILLE PARK RD MELVILLE, NY 11747	24355	ANALOG DEVICES INC 1 TECHNOLOGY WAY NORWOOD, MA 02062-9106
17856	SILICONIX INC 2201 LAURELWOOD RD SANTA CLARA, CA 95054-1516	24546	DALE ELECTRONICS INC A VISHAY INTERTECHNOLOGY INC CO 550 HIGH ST BRADFORD, PA 16701-3737
18324	PHILIPS SEMICONDUCTORS INC 811 E ARQUES AVE SUNNYVALE, CA 94088-3409	24681	MEMCOR-TRUOHM INC 1320 FLAXMILL RD HUNTINGTON, IN 46750-1370
18677	SCANBE MFG CO DIV OF ZERO CORP 3445 FLETCHER AVE EL MONTE, CA 91731	27014	NATIONAL SEMICONDUCTOR CORP 2900 SEMICONDUCTOR DR C2-220 SANTA CLARA, CA 95052-8090
19701	NORTH AMERICAN PHILIPS CORP PHILIPS COMPONENTS 1440 W INDIANTOWN RD JUPITER, FL 33458	2W733	COOPER INDUSTRIES INC BELDEN DIV 2200 US HIGHWAY 27 S P O BOX 1980 RICHMOND, IN 47375-0010
1ES66	MAXIM INTEGRATED PRODUCTS 120 SAN GABRIEL DR SUNNYVALE, CA 94086	30146	SYMBEX CORP SUB OF ASSOCIATED ENTERPRISES 72 CORWIN DR P O BOX 938 PAINESVILLE, OH 44077-1802
1MQ07	SEMICONDUCTOR COMPONENTS INDUSTRIES LLC 5005 E MCDOWELL RD PHOENIX, AZ 85008	31433	KEMET ELECTRONICS CORP 2835 KEMET WAY SIMPSONVILLE, SC 29681-2457
1YGB8	CAREY MFG CO INC DBA AMATOM ELECTRONIC HARDWARE 5 PASCO HILL RD CROMWELL, CT 06416-1093	31471	AMI SEMICONDUCTOR INC 2300 BUCKSKIN RD POCATELLO, ID 83201
22526	FCI USA INC 825 OLD TRAIL RD ETTERS, PA 17319-9392	33297	NEC ELECTRONICS USA INC ELECTRONIC ARRAYS DIV 2880 SCOTT BLVD SANTA CLARA, CA 95052

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Code	Manufacturer	Code	Manufacturer
34333	MICROSEMI CORP INTEGRATED PRODUCTS 11861 WESTERN AVE GARDEN GROVE, CA 92841-2119	53387	MINNESOTA MINING & MFG CO ELECTRONIC PRODUCTS DIV 6801 RIVER PLACE BLVD AUSTIN, TX 78726-9000
34335	ADVANCED MICRO DEVICES INC 901 THOMPSON PLACE P O BOX 3453 SUNNYVALE, CA 94086-3453	54407	POWER-ONE DC POWER SUPPLIES 740 CALLE PLANO DR CAMARILLO, CA 93010-8555
34371	INTERSIL CORP 2401 PALM BAY RD NE MELBOURNE, FL 32905-9176	54453	SULLINS ELECTRONICS CORP 801 E MISSION RD P O BOX 757 SAN MARCOS, CA 92069-3002
34899	FAIR-RITE PRODUCTS CORP 1 COMMERCIAL ROW WALLKILL, NY 12589	55322	SAMTEC INC 810 PROGRESS BLVD P O BOX 1147 NEW ALBANY, IN 47150-2257
3N087	MILL-MAX MFG CORP 190 PINE HOLLOW RD P O BOX 300 OYSTER BAY, NY 11771-4704	55566	R A F ELECTRONIC HARDWARE INC 95 SILVERMINE RD SEYMOUR, CT 06483-3915
43611	NEW ENGLAND SEMICONDUCTOR INC 6 LAKE STREET LAWRENCE, MA 01841-3032	55939	HONEYWELL INTERNATIONAL INC COMMERCIAL ELECTRONIC SYSTEMS 5353 W BELL RD GLENDALE, AZ 85308-3912
44655	OHMITE MFG CO 3601 W HOWARD ST SKOKIE, IL 60076-4014	56187	SOKOL CRYSTAL PRODUCTS INC 121 WATER ST P O BOX 249 MINERAL POINT, WI 53565
50435	HEWLETT-PACKARD CO SCIENTIFIC INSTRUMENTS DIV 1601 CALIFORNIA AVE PALO ALTO, CA 94304-1111	56289	SPRAGUE ELECTRIC CO WORLD HEADQUARTERS 678 MAIN ST SANFORD, ME 04073
51406	MURATA ERIE NORTH AMERICA INC HQ AND GEORGIA OPERATIONS 2200 LAKE PARK DR SMYRNA, GA 30080	56427	CALIFORNIA MICRO DEVICES CORP 215 TOPAZ ST MILPITAS, CA 95035-5430
52072	CIRCUIT ASSEMBLY CORP 18 THOMAS ST IRVINE, CA 92618-2777	56845	VISHAY DALE ELECTRONICS INC 2300 RIVERSIDE BLVD P O BOX 74 NORFOLK, NE 68701-0074
52094	CALMARK CORP 4915 WALNUT GROVE AVE SAN GABRIEL, CA 91776-2021	57027	INTERNATIONAL RESISTIVE CO DBA IRC DIVISION ADVANCED FILM DIVISION 4222 S STAPLES STREET CORPUS CHRISTI, TX 78411-2702

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<u>Code</u>	<u>Manufacturer</u>	<u>Code</u>	<u>Manufacturer</u>
57472	ALL MANUFACTURES INC HARPER AEROSPACE FASTENERS 2900 PALISADES DRIVE CORONA, CA 92880-9429	71590	CRL COMPONENTS INC 228 KENYON RD WEST FORT DODGE, IA 50501-5639
57856	KEL-AM INC HWY 54 SOUTH P O BOX 313 ELDON, MO 65026	73138	BI TECHNOLOGIES CORP 4200 BONITA PL FULLERTON, CA 92635-1053
59124	KOA SPEER ELECTRONICS INC BOLIVAR DR P O BOX 547 BRADFORD, PA 16701	74970	E F JOHNSON CO 299 JOHNSON AVE WASECA, MN 56093-0514
59821	MEPCO/CENTRALAB A NORTH AMERICAN PHILIPS CO EL PASO, TX 79900	75915	LITTELFUSE INC 800 E NORTHWEST HWY DES PLAINES, IL 60016-3049
60767	SIGMA ELECTRONICS INC 10830 KINGHURST ST HOUSTON, TX 77099-3415	77147	PATTON-MACGUYER CO DIV OF AVID CORP 17 VIRGINIA AVE PROVIDENCE, RI 02905-4441
61638	ADVANCED INTERCONNECTIONS CORP 5 ENERGY WAY P O BOX 1342 WEST WARWICK, RI 02893-1019	77342	POTTER & BRUMFIELD INC A SIEMENS CO 200 S RICHLAND CREEK DR PRINCETON, IN 47671-0001
63743	WARD LEONARD ELECTRIC CO INC 31 SOUTH ST MOUNT VERNON, NY 10550-1714	79963	ZIERICK MFG CO RADIO CIRCLE MT KISCO, NY 10549
64155	LINEAR TECHNOLOGY CORP 720 SYCAMORE DRIVE MILPITAS, CA 95035	7D893	FAIRCHILD SEMICONDUCTOR CORP 82 RUNNING HILL ROAD SOUTH PORTLAND, ME 04106-3218
67129	MINNESOTA MINING AND MFG CO ELECTRONIC PRODUCTS DIV	80205	NATIONAL AEROSPACE STANDARDS COMMITTEE AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA INC
70318	ALLMETAL SCREW PRODUCTS CORP 94 E JEFERYN BLVD SUITE A DEER PARK, NY 11729-5728	80294	BOURNS INSTRUMENTS INC 1200 COLUMBIA AVE BLDG C RIVERSIDE, CA 92507
71034	BLILEY ELECTRIC CO 2545 W GRANDVIEW BLVD ERIE, PA 16508	81073	GRAYHILL INC DEL 561 HILLGROVE AVE LA GRANGE, IL 60525-5997
71468	ITT CANNON DIV OF ITT INDUSTRIES 666 E DYER RD SANTA ANA, CA 92705-5612	81312	LITTON SYSTEMS INC WINCHESTER DIV 400 PARK RD WATERTOWN, CT 06795-0500
		81349	MILITARY SPECIFICATIONS

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<u>Code</u>	<u>Manufacturer</u>	<u>Code</u>	<u>Manufacturer</u>
81541	AIRPAX CORP, CAMBRIDGE DIV SUB OF CONSOLIDATED ELECTRONICS INDUSTRIES CORP WOODS RD P O BOX 520 CAMBRIDGE, MD 21613	90095	TECHNITROL INC PULSE SPECIALTY COMPONENTS TWO PEARL BUCK CT BRISTOL, PA 19007-6812
82389	SWITCHCRAFT INC SUB OF RAYTHEON CO 5555 N ELSTRON AVE CHICAGO, IL 60630-1314	91637	VISHAY DALE ELECTRONICS VISHAY AMERICAS INC 1122 23RD ST P O BOX 609 COLUMBUS, NE 68602-0609
82877	ROTRON INC DBA AMETEK ROTRON TECHNICAL MOTOR DIV 55 HASBROUCK LN WOODSTOCK, NY 12498	91836	KINGS ELECTRONICS CO INC 40 MARBLEDALE ROAD TUCKAHOE, NY 10707-3420
82893	VECTOR ELECTRONICS CO INC 11115 VANOWEN ST NORTH HOLLYWOOD, CA 91605-8371	95146	ALCO ELECTRONIC PRODUCTS INC 1551 OSGOOD ST NORTH ANDOVER, MA 01845-1014
84411	AMERICAN SHIZUKI CORP OGALLALA OPNS 301 WEST O ST OGALLALA, NE 69153-1844	96906	MILITARY STANDARDS
85480	BRADY W H CO CORP H Q INDUSTRIAL PRODUCTS DIV 6555 W GOOD HOPE RD P O BOX 2131 MILWAUKEE, WI 53203-2131	98376	ZERO CORP ZERO-WEST DIV 777 FRONT ST BURBANK, CA 91303
		98410	ETC-MOLEX INC SUB OF MOLEX INC 4820 PARK BLVD PINELLAS PARK, FL 33565-7246
		99800	AMERICAN PRECISION INDUSTRIES 270 QUAKER RD EAST AURORA, NY 14052-0449



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4. Equipment Designator Index

<u>Equipment Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo Loc</u>	<u>Equipment Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo Loc</u>
A1	1	11		A10C23	10	62	4K
A10	1	20		A10C24	10	62	4K
A10A1	10	8		A10C25	10	62	4L
A10A1C201	13	7	5F	A10C26	10	61	5M
A10A1C202	13	7	5H	A10C27	10	61	5J
A10A1C203	13	7	8H	A10C28	10	62	6H
A10A1C204	13	8	6H	A10C29	10	63	6G
A10A1C205	13	9	8G	A10C3	10	62	2H
A10A1J201	13	2		A10C30	10	63	6G
A10A1P201	13	3		A10C31	10	63	7G
A10A1U201	13	- 4A	6E	A10C32	10	63	7G
A10A1U203	13	- 5A	8G	A10C33	10	61	6L
A10A1U204	13	- 6A	6F	A10C34	10	61	6K
A10C1	10	56	2H	A10C35	10	62	7K
A10C10	10	61	6L	A10C36	10	54	7K
A10C100	10	62	3H	A10C37	10	61	6M
A10C101	10	62	3H	A10C38	10	61	6K
A10C102	10	53	3J	A10C39	10	51	3G
A10C103	10	62	3K	A10C4	10	62	2L
A10C104	10	53	3J	A10C40	10	51	3E
A10C105	10	53	4J	A10C41	10	59	3G
A10C106	10	62	4K	A10C42	10	62	6F
A10C107	10	53	4J	A10C43	10	62	7F
A10C108	10	53	4K	A10C44	10	61	5L
A10C109	10	53	3J	A10C45	10	61	4H
A10C11	10	61	2K	A10C46	10	61	4H
A10C110	10	61	5K	A10C47	10	62	4H
A10C111	10	58	5D	A10C48	10	62	4H
A10C112	10	61	6M	A10C49	10	62	5E
A10C113	10	56	6E	A10C50	10	61	5L
A10C114	10	58	5D	A10C51	10	62	5F
A10C115	10	58	5D	A10C53	10	59	4D
A10C116	10	58	5D	A10C54	10	62	3D
A10C117	10	58	5D	A10C57	10	61	5M
A10C118	10	58	4D	A10C59	10	62	7H
A10C119	10	58	4D	A10C6	10	57	3M
A10C120	10	58	4D	A10C60	10	62	7H
A10C121	10	58	4D	A10C61	10	62	4E
A10C122	10	63	3M	A10C62	10	62	4E
A10C123	10	136	3L	A10C64	10	64	4E
A10C14	10	62	3J	A10C65	10	64	4E
A10C15	10	62	3J	A10C66	10	139	4E
A10C19	10	62	4G	A10C67	10	139	3E
A10C2	10	56	2H	A10C7	10	57	4M
A10C20	10	62	4G	A10C73	10	62	4F
A10C21	10	61	5K	A10C74	10	62	4F
A10C22	10	61	4L	A10C75	10	62	5D

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<u>Equipment Designator</u>	<u>Fig. Item</u>	<u>Geo Loc</u>	<u>Equipment Designator</u>	<u>Fig. Item</u>	<u>Geo Loc</u>
A10C76	10 62	5E	A10R111	10 - 78A	7E
A10C77	10 62	5E	A10R112	10 - 78A	7E
A10C78	10 62	5E	A10R113	10 - 78A	6E
A10C79	10 62	4E	A10R114	10 - 78A	7E
A10C8	10 61	2L	A10R115	10 - 74A	6F
A10C80	10 62	4F	A10R116	10 - 74A	6F
A10C82	10 61	4H	A10R117	10 -148A	4G
A10C84	10 55	5F	A10R118	10 -148A	4G
A10C85	10 55	5G	A10R12	10 - 91A	3L
A10C86	10 55	5G	A10R121	10 -132A	3K
A10C87	10 55	5G	A10R122	10 - 82A	4K
A10C9	10 62	2M	A10R123	10 -131A	3K
A10C90	10 62	3D	A10R124	10 -134A	3J
A10C91	10 52	7J	A10R125	10 - 86A	3E
A10C92	10 53	7J	A10R126	10 -130A	3E
A10C93	10 52	7J	A10R127	10 -143A	3E
A10C94	10 53	7J	A10R128	10 135	3G
A10C95	10 61	4H	A10R129	10 -138A	4J
A10C96	10 56	5G	A10R130	10 153	3C
A10C97	10 56	5G	A10R131	10 153	4C
A10C98	10 56	5G	A10R15	10 -148A	4G
A10C99	10 56	5H	A10R18	10 -148A	4G
A10CR1	10 65	2G	A10R19	10 -148A	4F
A10CR2	10 65	2F	A10R2	10 - 74A	7F
A10CR3	10 65	3F	A10R20	10 -146A	4F
A10CR4	10 65	3E	A10R23	10 92	3F
A10CR5	10 65	3E	A10R24	10 97	3F
A10J3	10 68	2D	A10R25	10 - 76A	2F
A10L1	10 - 66A	6F	A10R26	10 - 81A	3F
A10L2	10 - 66A	6F	A10R27	10 - 96A	2F
A10L3	10 - 66A	7F	A10R28	10 - 86A	3G
A10L4	10 - 66A	7F	A10R3	10 - 74A	7F
A10L5	10 - 67A	2H	A10R30	10 - 89A	3G
A10L6	10 - 67A	3H	A10R33	10 - 90A	3F
A10Q3	10 69	2F	A10R34	10 - 86A	3F
A10R1	10 - 74A	6F	A10R35	10 -148A	3F
A10R10	10 156	3L	A10R36	10 -148A	3F
A10R100	10 97	4L	A10R37	10 - 86A	3D
A10R101	10 - 82A	4K	A10R38	10 - 90A	3D
A10R102	10 -132A	4K	A10R39	10 -142A	4D
A10R103	10 -141A	5D	A10R4	10 - 74A	7F
A10R104	10 -141A	5D	A10R40	10 95	3D
A10R105	10 -141A	5D	A10R41	10 - 96A	7E
A10R106	10 -141A	5D	A10R42	10 - 96A	7E
A10R107	10 -141A	5C	A10R43	10 - 96A	6E
A10R108	10 -141A	5C	A10R44	10 - 96A	7E
A10R109	10 -141A	6C	A10R45	10 - 96A	6E
A10R11	10 156	3H	A10R46	10 -144A	5D
A10R110	10 -141A	6C	A10R47	10 -144A	5D

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<u>Equipment Designator</u>	<u>Fig. Item</u>	<u>Geo Loc</u>	<u>Equipment Designator</u>	<u>Fig. Item</u>	<u>Geo Loc</u>
A10R48	10 -142A	5C	A10T1	10 100	6G
A10R49	10 72	7C	A10T2	10 100	7G
A10R5	10 - 79A	3G	A10T3	10 -128A	3F
A10R50	10 72	7C	A10T5	10 101	3E
A10R51	10 72	7C	A10T6	10 100	6G
A10R52	10 153	6C	A10TP1	10 -137A	6H
A10R53	10 140	6C	A10U1	10 -108A	6L
A10R54	10 153	6C	A10U10	10 -115A	3K
A10R55	10 -142A	4D	A10U11	10 116	3L
A10R56	10 -141A	4D	A10U12	10 121	3M
A10R57	10 -141A	4D	A10U16	10 -122A	3K
A10R59	10 -142A	4D	A10U17	10 -155A	3G
A10R6	10 - 79A	3G	A10U19	10 114	5M
A10R60	10 -141A	4D	A10U2	10 -110A	6L
A10R61	10 -141A	4D	A10U20	10 -124A	4M
A10R63	10 -141A	4C	A10U21	10 -113A	4L
A10R64	10 -142A	4C	A10U22	10 -109A	5J
A10R65	10 -141A	4C	A10U23	10 125	6G
A10R67	10 -141A	4C	A10U24	10 114	5K
A10R68	10 -142A	4C	A10U26	10 120	7H
A10R69	10 -141A	4C	A10U27	10 -119A	5E
A10R7	10 - 88A	3H	A10U28	10 -119A	5F
A10R71	10 -142A	5C	A10U3	10 -112A	6K
A10R72	10 -141A	5C	A10U30	10 -155A	3D
A10R73	10 -141A	5C	A10U31	10 -155A	6D
A10R75	10 -151A	4E	A10U32	10 -155A	6E
A10R76	10 -151A	3E	A10U33	10 107	3F
A10R77	10 -149A	4E	A10U34	10 114	5L
A10R78	10 -149A	3E	A10U35	10 -106A	7F
A10R79	10 - 86A	3D	A10U36	10 -106A	5H
A10R8	10 - 88A	2H	A10U37	10 -155A	5H
A10R80	10 -130A	6E	A10U38	10 114	5L
A10R81	10 - 86A	6D	A10U39	10 -106A	6F
A10R82	10 - 86A	6E	A10U4	10 -111A	6M
A10R83	10 - 86A	3E	A10U40	10 -106A	3H
A10R84	10 - 86A	3E	A10U42	10 -118A	7E
A10R86	10 97	3E	A10U49	10 -152A	5J
A10R88	10 - 73A	4G	A10U5	10 -111A	6K
A10R89	10 - 73A	4G	A10U50	10 -152A	6E
A10R9	10 - 88A	3H	A10U51	10 -111A	6M
A10R90	10 - 73A	4G	A10U52	10 -108A	5K
A10R91	10 - 73A	4H	A10U53	10 -127A	3J
A10R92	10 -145A	5G	A10U54	10 -127A	3K
A10R93	10 -145A	5G	A10U55	10 -154A	7H
A10R94	10 -145A	5G	A10U6	10 114	5M
A10R95	10 -145A	5H	A10U8	10 -123A	3H
A10R96	10 -147A	3F	A10U9	10 -102A	3L
A10R97	10 -150A	3F	A10Y1	10 129	3L
A10R98	10 - 78A	7E	A11	1 19	

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Radio Test Interface Unit / Part No. 7511400

<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A11A1	9	39		A12A1E112	11	4	5L
A11A1CR1	12	10		A12A1E113	11	2	5L
A11A1CR2	12	11		A12A1E114	11	4	4L
A11A1CR3	12	11		A12A1E115	11	4	6L
A11A1PS1	12	1A		A12A1E116	11	4	6L
A11A1W3	12	9		A12A1E117	11	4	5L
A11A1W3J11	19	9		A12A1E118	11	5	5L
A11A1W3J12	19	9		A12A1E119	11	6	5L
A11A1W3J15	19	10		A12A1E12	11	4	4D
A11A1W3J17	19	9		A12A1E120	11	3	4L
A11A1W3P13	19	8		A12A1E121	11	4	6L
A11A1W3P16	19	8		A12A1E122	11	4	6L
A11A1W3P18	19	11		A12A1E123	11	4	5L
A11A1W3P19	19	11		A12A1E124	11	4	5L
A11A1W3P20	19	11		A12A1E125	11	4	5L
A11B1	9	3		A12A1E126	11	4	4L
A11F1	9	10		A12A1E127	11	4	6M
A11FL1	9	4		A12A1E128	11	7	6M
A11J2	9	6		A12A1E129	11	7	5M
A11K1	9	44		A12A1E13	11	2	6E
A11S1	9	8		A12A1E130	11	7	5M
A11S2	9	7		A12A1E131	11	7	5M
A11W11	9	46		A12A1E132	11	7	4M
A11W11CR1	23	31		A12A1E133	11	4	6M
A11W11SS1	23	26		A12A1E134	11	3	6M
A11W2	9	42		A12A1E135	11	3	5M
A11W2P6	16	27		A12A1E136	11	3	5M
A11W4	9	43		A12A1E137	11	3	5M
A11W4J16	20	29		A12A1E138	11	3	4M
A11W4P4	20	14		A12A1E14	11	4	6E
A11W5	9	45		A12A1E15	11	2	5E
A11X1	9	9		A12A1E16	11	4	5E
A12	1	14		A12A1E17	11	2	5E
A12A1	4	16		A12A1E18	11	4	4E
A12A1E1	11	2	6D	A12A1E19	11	2	6E
A12A1E10	11	4	5D	A12A1E2	11	4	6D
A12A1E100	11	4	5K	A12A1E20	11	4	6E
A12A1E101	11	2	5K	A12A1E201	11	2	4D
A12A1E102	11	4	4K	A12A1E202	11	4	4D
A12A1E103	11	2	6K	A12A1E203	11	2	3D
A12A1E104	11	4	6K	A12A1E204	11	4	3D
A12A1E105	11	2	5K	A12A1E205	11	2	3D
A12A1E106	11	4	5K	A12A1E206	11	4	2D
A12A1E107	11	2	5K	A12A1E207	11	2	4D
A12A1E108	11	4	4K	A12A1E208	11	4	4D
A12A1E109	11	2	6L	A12A1E209	11	2	3D
A12A1E11	11	2	5D	A12A1E21	11	2	5E
A12A1E110	11	4	6L	A12A1E210	11	4	3D
A12A1E111	11	2	5L	A12A1E211	11	2	3D

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Radio Test Interface Unit / Part No. 7511400

<u>Equipment Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo Loc</u>
A12A1E212	11	4	2D
A12A1E213	11	2	4E
A12A1E214	11	4	4E
A12A1E215	11	2	3E
A12A1E216	11	4	3E
A12A1E217	11	2	3E
A12A1E218	11	4	2E
A12A1E219	11	2	4E
A12A1E22	11	4	5E
A12A1E220	11	4	4E
A12A1E221	11	2	3E
A12A1E222	11	4	3E
A12A1E223	11	2	3E
A12A1E224	11	4	2E
A12A1E225	11	3	4E
A12A1E226	11	5	4E
A12A1E227	11	3	3E
A12A1E228	11	5	3E
A12A1E229	11	3	3E
A12A1E23	11	2	5E
A12A1E230	11	5	2E
A12A1E231	11	2	4F
A12A1E232	11	4	4F
A12A1E233	11	2	3F
A12A1E234	11	4	3F
A12A1E235	11	2	3F
A12A1E236	11	4	2F
A12A1E237	11	2	4F
A12A1E238	11	4	4F
A12A1E239	11	2	3F
A12A1E24	11	4	4E
A12A1E240	11	4	3F
A12A1E241	11	2	3F
A12A1E242	11	4	2F
A12A1E243	11	2	4G
A12A1E244	11	4	4G
A12A1E245	11	2	3G
A12A1E246	11	4	3G
A12A1E247	11	2	3G
A12A1E248	11	4	2G
A12A1E249	11	2	4G
A12A1E25	11	3	6E
A12A1E250	11	4	4G
A12A1E251	11	2	3G
A12A1E252	11	4	3G
A12A1E253	11	2	3G
A12A1E254	11	4	2G
A12A1E255	11	6	4G
A12A1E256	11	7	4G

<u>Equipment Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo Loc</u>
A12A1E257	11	6	3G
A12A1E258	11	7	3G
A12A1E259	11	6	3G
A12A1E26	11	5	6E
A12A1E260	11	7	2G
A12A1E261	11	2	4H
A12A1E262	11	4	4H
A12A1E263	11	2	3H
A12A1E264	11	4	3H
A12A1E265	11	2	3H
A12A1E266	11	4	2H
A12A1E267	11	2	4H
A12A1E268	11	4	4H
A12A1E269	11	2	3H
A12A1E27	11	3	5E
A12A1E270	11	4	3H
A12A1E271	11	2	3H
A12A1E272	11	4	2H
A12A1E273	11	2	4H
A12A1E274	11	4	4H
A12A1E275	11	2	3H
A12A1E276	11	4	3H
A12A1E277	11	2	3H
A12A1E278	11	4	2H
A12A1E279	11	2	4J
A12A1E28	11	5	5E
A12A1E280	11	4	4J
A12A1E281	11	2	3J
A12A1E282	11	4	3J
A12A1E283	11	2	3J
A12A1E284	11	4	2J
A12A1E285	11	3	4J
A12A1E286	11	5	4J
A12A1E287	11	3	3J
A12A1E288	11	5	3J
A12A1E289	11	3	3J
A12A1E29	11	3	5E
A12A1E290	11	5	2J
A12A1E291	11	2	4K
A12A1E292	11	4	4K
A12A1E293	11	2	3K
A12A1E294	11	4	3K
A12A1E295	11	2	3K
A12A1E296	11	4	2K
A12A1E297	11	2	4K
A12A1E298	11	4	4K
A12A1E299	11	2	3K
A12A1E3	11	2	5D
A12A1E30	11	5	4E

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<u>Equipment Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo Loc</u>	<u>Equipment Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo Loc</u>
A12A1E300	11	4	3K	A12A1E40	11	4	5F
A12A1E301	11	2	3K	A12A1E41	11	2	5F
A12A1E302	11	4	2K	A12A1E42	11	4	4F
A12A1E303	11	2	4K	A12A1E43	11	2	6G
A12A1E304	11	4	4K	A12A1E44	11	4	6G
A12A1E305	11	2	3K	A12A1E45	11	2	5G
A12A1E306	11	4	3K	A12A1E46	11	4	5G
A12A1E307	11	2	3K	A12A1E47	11	2	5G
A12A1E308	11	4	2K	A12A1E48	11	4	4G
A12A1E309	11	2	4L	A12A1E49	11	2	6G
A12A1E31	11	2	6F	A12A1E5	11	2	5D
A12A1E310	11	4	4L	A12A1E50	11	4	6G
A12A1E311	11	2	3L	A12A1E51	11	2	5G
A12A1E312	11	4	3L	A12A1E52	11	4	5G
A12A1E313	11	2	3L	A12A1E53	11	2	5G
A12A1E314	11	4	2L	A12A1E54	11	4	4G
A12A1E315	11	4	4L	A12A1E55	11	6	6G
A12A1E316	11	4	4L	A12A1E56	11	7	6G
A12A1E317	11	4	3L	A12A1E57	11	6	5G
A12A1E318	11	5	3L	A12A1E58	11	7	5G
A12A1E319	11	6	3L	A12A1E59	11	6	5G
A12A1E32	11	4	6F	A12A1E6	11	4	4D
A12A1E320	11	3	2L	A12A1E60	11	7	4G
A12A1E321	11	4	4L	A12A1E61	11	2	6H
A12A1E322	11	4	4L	A12A1E62	11	4	6H
A12A1E323	11	4	3L	A12A1E63	11	2	5H
A12A1E324	11	4	3L	A12A1E64	11	4	5H
A12A1E325	11	4	3L	A12A1E65	11	2	5H
A12A1E326	11	4	2L	A12A1E66	11	4	4H
A12A1E327	11	4	4M	A12A1E67	11	2	6H
A12A1E328	11	7	4M	A12A1E68	11	4	6H
A12A1E329	11	7	3M	A12A1E69	11	2	5H
A12A1E33	11	2	5F	A12A1E7	11	2	6D
A12A1E330	11	7	3M	A12A1E70	11	4	5H
A12A1E331	11	7	3M	A12A1E71	11	2	5H
A12A1E332	11	7	2M	A12A1E72	11	4	4H
A12A1E333	11	4	4M	A12A1E73	11	2	6H
A12A1E334	11	3	4M	A12A1E74	11	4	6H
A12A1E335	11	3	3M	A12A1E75	11	2	5H
A12A1E336	11	3	3M	A12A1E76	11	4	5H
A12A1E337	11	3	3M	A12A1E77	11	2	5H
A12A1E338	11	3	2M	A12A1E78	11	4	4H
A12A1E34	11	4	5F	A12A1E79	11	2	6J
A12A1E35	11	2	5F	A12A1E8	11	4	6D
A12A1E36	11	4	4F	A12A1E80	11	4	6J
A12A1E37	11	2	6F	A12A1E81	11	2	5J
A12A1E38	11	4	6F	A12A1E82	11	4	5J
A12A1E39	11	2	5F	A12A1E83	11	2	5J
A12A1E4	11	4	5D	A12A1E84	11	4	4J

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<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A12A1E85	11	3	6J	A1Z100	2	- 14A	
A12A1E86	11	5	6J	A1Z101	2	- 14A	
A12A1E87	11	3	5J	A1Z102	2	- 14A	
A12A1E88	11	5	5J	A1Z103	2	- 14A	
A12A1E89	11	3	5J	A1Z104	2	- 14A	
A12A1E9	11	2	5D	A1Z105	2	- 14A	
A12A1E90	11	5	4J	A1Z106	2	- 14A	
A12A1E91	11	2	6K	A1Z107	2	- 14A	
A12A1E92	11	4	6K	A1Z108	2	- 14A	
A12A1E93	11	2	5K	A1Z109	2	- 14A	
A12A1E94	11	4	5K	A1Z11	2	- 14A	
A12A1E95	11	2	5K	A1Z110	2	- 14A	
A12A1E96	11	4	4K	A1Z111	2	- 14A	
A12A1E97	11	2	6K	A1Z112	2	- 14A	
A12A1E98	11	4	6K	A1Z113	2	- 14A	
A12A1E99	11	2	5K	A1Z114	2	- 14A	
A12A1J1	11	- 9A	6D	A1Z115	2	- 14A	
A12A1J2	11	- 9A	6F	A1Z116	2	- 14A	
A12A1J3	11	8	6N	A1Z117	2	- 14A	
A12A1J4	11	- 9A	4J	A1Z118	2	- 14A	
A12A1J5	11	- 9A	4M	A1Z119	2	- 14A	
A12A1J6	11	8	4N	A1Z12	2	- 14A	
A12CB1	4	13		A1Z120	2	- 14A	
A12CB2	4	14		A1Z121	2	- 14A	
A12CB3	4	15		A1Z122	2	- 14A	
A12J3	4	11		A1Z123	2	- 14A	
A12J4	4	12		A1Z124	2	- 14A	
A12J5	4	19		A1Z125	2	- 14A	
A12J6	4	19		A1Z126	2	- 14A	
A12P3	4	17		A1Z127	2	- 14A	
A12P3P3	15	12		A1Z128	2	- 14A	
A12P3SS1	15	25		A1Z129	2	- 14A	
A12P3SS2	15	25		A1Z13	2	- 14A	
A12P3SS3	15	25		A1Z130	2	- 14A	
A12P3SS4	15	26		A1Z131	2	- 14A	
A12P3SS5	15	26		A1Z132	2	- 14A	
A12R1	4	10		A1Z133	2	- 14A	
A1E1	2	- 9A		A1Z134	2	- 14A	
A1E2	2	- 9A		A1Z135	2	- 14A	
A1E3	2	- 9A		A1Z136	2	- 14A	
A1E4	2	- 9A		A1Z137	2	- 14A	
A1J1	2	10		A1Z138	2	- 14A	
A1J2C	2	11		A1Z139	2	- 14A	
A1P2A	2	13		A1Z14	2	- 14A	
A1P2B	2	13		A1Z140	2	- 14A	
A1P3A	2	12		A1Z141	2	- 14A	
A1P3B	2	12		A1Z142	2	- 14A	
A1Z1	2	- 14A		A1Z143	2	- 14A	
A1Z10	2	- 14A		A1Z144	2	- 14A	

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<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>
A1Z145	2 - 14A		A1Z49	2 - 14A	
A1Z146	2 - 14A		A1Z5	2 - 14A	
A1Z147	2 - 14A		A1Z50	2 - 14A	
A1Z148	2 - 14A		A1Z51	2 - 14A	
A1Z149	2 - 14A		A1Z52	2 - 14A	
A1Z15	2 - 14A		A1Z53	2 - 14A	
A1Z150	2 - 14A		A1Z54	2 - 14A	
A1Z151	2 - 14A		A1Z55	2 - 14A	
A1Z152	2 - 14A		A1Z56	2 - 14A	
A1Z153	2 - 14A		A1Z57	2 - 14A	
A1Z154	2 - 14A		A1Z58	2 - 14A	
A1Z155	2 - 14A		A1Z59	2 - 14A	
A1Z156	2 - 14A		A1Z6	2 - 14A	
A1Z16	2 - 14A		A1Z60	2 - 14A	
A1Z17	2 - 14A		A1Z61	2 - 14A	
A1Z18	2 - 14A		A1Z62	2 - 14A	
A1Z19	2 - 14A		A1Z63	2 - 14A	
A1Z2	2 - 14A		A1Z64	2 - 14A	
A1Z20	2 - 14A		A1Z65	2 - 14A	
A1Z21	2 - 14A		A1Z66	2 - 14A	
A1Z22	2 - 14A		A1Z67	2 - 14A	
A1Z23	2 - 14A		A1Z68	2 - 14A	
A1Z24	2 - 14A		A1Z69	2 - 14A	
A1Z25	2 - 14A		A1Z7	2 - 14A	
A1Z26	2 - 14A		A1Z70	2 - 14A	
A1Z27	2 - 14A		A1Z71	2 - 14A	
A1Z28	2 - 14A		A1Z72	2 - 14A	
A1Z29	2 - 14A		A1Z73	2 - 14A	
A1Z3	2 - 14A		A1Z74	2 - 14A	
A1Z30	2 - 14A		A1Z75	2 - 14A	
A1Z31	2 - 14A		A1Z76	2 - 14A	
A1Z32	2 - 14A		A1Z77	2 - 14A	
A1Z33	2 - 14A		A1Z78	2 - 14A	
A1Z34	2 - 14A		A1Z79	2 - 14A	
A1Z35	2 - 14A		A1Z8	2 - 14A	
A1Z36	2 - 14A		A1Z80	2 - 14A	
A1Z37	2 - 14A		A1Z81	2 - 14A	
A1Z38	2 - 14A		A1Z82	2 - 14A	
A1Z39	2 - 14A		A1Z83	2 - 14A	
A1Z4	2 - 14A		A1Z84	2 - 14A	
A1Z40	2 - 14A		A1Z85	2 - 14A	
A1Z41	2 - 14A		A1Z86	2 - 14A	
A1Z42	2 - 14A		A1Z87	2 - 14A	
A1Z43	2 - 14A		A1Z88	2 - 14A	
A1Z44	2 - 14A		A1Z89	2 - 14A	
A1Z45	2 - 14A		A1Z9	2 - 14A	
A1Z46	2 - 14A		A1Z90	2 - 14A	
A1Z47	2 - 14A		A1Z91	2 - 14A	
A1Z48	2 - 14A		A1Z92	2 - 14A	

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Equipment
Designator **Fig. Item** **Geo**
Loc

A1Z93	2 - 14A	
A1Z94	2 - 14A	
A1Z95	2 - 14A	
A1Z96	2 - 14A	
A1Z97	2 - 14A	
A1Z98	2 - 14A	
A1Z99	2 - 14A	
A2	1 11	
A2E1	2 - 9A	
A2E2	2 - 9A	
A2E3	2 - 9A	
A2E4	2 - 9A	
A2J1	2 10	
A2J2C	2 11	
A2P2A	2 13	
A2P2B	2 13	
A2P3A	2 12	
A2P3B	2 12	
A2Z1	2 - 14A	
A2Z10	2 - 14A	
A2Z100	2 - 14A	
A2Z101	2 - 14A	
A2Z102	2 - 14A	
A2Z103	2 - 14A	
A2Z104	2 - 14A	
A2Z105	2 - 14A	
A2Z106	2 - 14A	
A2Z107	2 - 14A	
A2Z108	2 - 14A	
A2Z109	2 - 14A	
A2Z11	2 - 14A	
A2Z110	2 - 14A	
A2Z111	2 - 14A	
A2Z112	2 - 14A	
A2Z113	2 - 14A	
A2Z114	2 - 14A	
A2Z115	2 - 14A	
A2Z116	2 - 14A	
A2Z117	2 - 14A	
A2Z118	2 - 14A	
A2Z119	2 - 14A	
A2Z12	2 - 14A	
A2Z120	2 - 14A	
A2Z121	2 - 14A	
A2Z122	2 - 14A	
A2Z123	2 - 14A	
A2Z124	2 - 14A	
A2Z125	2 - 14A	
A2Z126	2 - 14A	

Equipment
Designator **Fig. Item** **Geo**
Loc

A2Z127	2 - 14A	
A2Z128	2 - 14A	
A2Z129	2 - 14A	
A2Z13	2 - 14A	
A2Z130	2 - 14A	
A2Z131	2 - 14A	
A2Z132	2 - 14A	
A2Z133	2 - 14A	
A2Z134	2 - 14A	
A2Z135	2 - 14A	
A2Z136	2 - 14A	
A2Z137	2 - 14A	
A2Z138	2 - 14A	
A2Z139	2 - 14A	
A2Z14	2 - 14A	
A2Z140	2 - 14A	
A2Z141	2 - 14A	
A2Z142	2 - 14A	
A2Z143	2 - 14A	
A2Z144	2 - 14A	
A2Z145	2 - 14A	
A2Z146	2 - 14A	
A2Z147	2 - 14A	
A2Z148	2 - 14A	
A2Z149	2 - 14A	
A2Z15	2 - 14A	
A2Z150	2 - 14A	
A2Z151	2 - 14A	
A2Z152	2 - 14A	
A2Z153	2 - 14A	
A2Z154	2 - 14A	
A2Z155	2 - 14A	
A2Z156	2 - 14A	
A2Z16	2 - 14A	
A2Z17	2 - 14A	
A2Z18	2 - 14A	
A2Z19	2 - 14A	
A2Z2	2 - 14A	
A2Z20	2 - 14A	
A2Z21	2 - 14A	
A2Z22	2 - 14A	
A2Z23	2 - 14A	
A2Z24	2 - 14A	
A2Z25	2 - 14A	
A2Z26	2 - 14A	
A2Z27	2 - 14A	
A2Z28	2 - 14A	
A2Z29	2 - 14A	
A2Z3	2 - 14A	

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>
A2Z30	2 - 14A		A2Z75	2 - 14A	
A2Z31	2 - 14A		A2Z76	2 - 14A	
A2Z32	2 - 14A		A2Z77	2 - 14A	
A2Z33	2 - 14A		A2Z78	2 - 14A	
A2Z34	2 - 14A		A2Z79	2 - 14A	
A2Z35	2 - 14A		A2Z8	2 - 14A	
A2Z36	2 - 14A		A2Z80	2 - 14A	
A2Z37	2 - 14A		A2Z81	2 - 14A	
A2Z38	2 - 14A		A2Z82	2 - 14A	
A2Z39	2 - 14A		A2Z83	2 - 14A	
A2Z4	2 - 14A		A2Z84	2 - 14A	
A2Z40	2 - 14A		A2Z85	2 - 14A	
A2Z41	2 - 14A		A2Z86	2 - 14A	
A2Z42	2 - 14A		A2Z87	2 - 14A	
A2Z43	2 - 14A		A2Z88	2 - 14A	
A2Z44	2 - 14A		A2Z89	2 - 14A	
A2Z45	2 - 14A		A2Z9	2 - 14A	
A2Z46	2 - 14A		A2Z90	2 - 14A	
A2Z47	2 - 14A		A2Z91	2 - 14A	
A2Z48	2 - 14A		A2Z92	2 - 14A	
A2Z49	2 - 14A		A2Z93	2 - 14A	
A2Z5	2 - 14A		A2Z94	2 - 14A	
A2Z50	2 - 14A		A2Z95	2 - 14A	
A2Z51	2 - 14A		A2Z96	2 - 14A	
A2Z52	2 - 14A		A2Z97	2 - 14A	
A2Z53	2 - 14A		A2Z98	2 - 14A	
A2Z54	2 - 14A		A2Z99	2 - 14A	
A2Z55	2 - 14A		A3	1 13	
A2Z56	2 - 14A		A3C1	3 3	2B
A2Z57	2 - 14A		A3C10	3 3	3B
A2Z58	2 - 14A		A3C11	3 3	3B
A2Z59	2 - 14A		A3C12	3 3	3B
A2Z6	2 - 14A		A3C13	3 3	3B
A2Z60	2 - 14A		A3C14	3 3	3B
A2Z61	2 - 14A		A3C15	3 3	3B
A2Z62	2 - 14A		A3C16	3 3	4B
A2Z63	2 - 14A		A3C17	3 3	4B
A2Z64	2 - 14A		A3C18	3 3	4B
A2Z65	2 - 14A		A3C19	3 3	4B
A2Z66	2 - 14A		A3C2	3 3	2B
A2Z67	2 - 14A		A3C20	3 3	4B
A2Z68	2 - 14A		A3C21	3 3	4B
A2Z69	2 - 14A		A3C22	3 3	4B
A2Z7	2 - 14A		A3C23	3 3	4B
A2Z70	2 - 14A		A3C24	3 3	4B
A2Z71	2 - 14A		A3C25	3 3	5B
A2Z72	2 - 14A		A3C26	3 3	5B
A2Z73	2 - 14A		A3C27	3 3	5B
A2Z74	2 - 14A		A3C28	3 3	5B

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A3C29	3	3	5B	A3J4	3	6	8G
A3C3	3	3	2B	A3J5	3	5	4G
A3C30	3	3	5B	A3J6	3	6	8G
A3C31	3	3	5B	A3J7	3	5	4H
A3C32	3	3	3A	A3J8	3	6	8H
A3C33	3	3	3A	A3J9	3	5	4J
A3C34	3	3	3A	A3U1	3	10A	2B
A3C35	3	3	3A	A3U10	3	9A	5B
A3C36	3	3	3A	A3U11	3	9A	3A
A3C37	3	3	3A	A3U12	3	9A	4A
A3C38	3	3	3A	A3U13	3	9A	4A
A3C39	3	3	3A	A3U14	3	8A	3B
A3C4	3	3	2B	A3U15	3	8A	4B
A3C40	3	3	3A	A3U16	3	8A	4B
A3C41	3	3	4A	A3U2	3	10A	3B
A3C42	3	3	4A	A3U3	3	8A	4B
A3C43	3	3	4A	A3U4	3	8A	4B
A3C44	3	3	4A	A3U5	3	8A	5B
A3C45	3	3	4A	A3U6	3	9A	2B
A3C46	3	3	4A	A3U7	3	9A	3B
A3C47	3	3	4A	A3U8	3	9A	4B
A3C48	3	3	4A	A3U9	3	9A	4B
A3C49	3	3	4A	A3Z1	3	11A	
A3C5	3	3	2B	A3Z10	3	11A	
A3C50	3	3	5A	A3Z100	3	11A	
A3C51	3	3	5A	A3Z101	3	11A	
A3C52	3	3	5A	A3Z102	3	11A	
A3C53	3	3	5B	A3Z103	3	11A	
A3C6	3	3	2B	A3Z104	3	11A	
A3C7	3	3	2B	A3Z105	3	11A	
A3C8	3	3	3B	A3Z106	3	11A	
A3C9	3	3	3B	A3Z107	3	11A	
A3E1	3	4A	2D	A3Z108	3	11A	
A3E2	3	4A	2E	A3Z109	3	11A	
A3E4	3	4A	2E	A3Z11	3	11A	
A3E5	3	4A	2E	A3Z110	3	11A	
A3E6	3	4A	2F	A3Z111	3	11A	
A3J10	3	6	8J	A3Z112	3	11A	
A3J11	3	5	4J	A3Z113	3	11A	
A3J12	3	6	8J	A3Z114	3	11A	
A3J13	3	5	4K	A3Z115	3	11A	
A3J14	3	6	8K	A3Z116	3	11A	
A3J15	3	5	4L	A3Z117	3	11A	
A3J16	3	6	8L	A3Z118	3	11A	
A3J1A	3	7A	8E	A3Z119	3	11A	
A3J1B	3	7A	8G	A3Z12	3	11A	
A3J2A	3	7A	8J	A3Z120	3	11A	
A3J2B	3	7A	8L	A3Z121	3	11A	
A3J3	3	5	4G	A3Z122	3	11A	

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>
A3Z123	3 - 11A		A3Z168	3 - 11A	
A3Z124	3 - 11A		A3Z169	3 - 11A	
A3Z125	3 - 11A		A3Z17	3 - 11A	
A3Z126	3 - 11A		A3Z170	3 - 11A	
A3Z127	3 - 11A		A3Z171	3 - 11A	
A3Z128	3 - 11A		A3Z172	3 - 11A	
A3Z129	3 - 11A		A3Z173	3 - 11A	
A3Z13	3 - 11A		A3Z174	3 - 11A	
A3Z130	3 - 11A		A3Z175	3 - 11A	
A3Z131	3 - 11A		A3Z176	3 - 11A	
A3Z132	3 - 11A		A3Z177	3 - 11A	
A3Z133	3 - 11A		A3Z178	3 - 11A	
A3Z134	3 - 11A		A3Z179	3 - 11A	
A3Z135	3 - 11A		A3Z18	3 - 11A	
A3Z136	3 - 11A		A3Z180	3 - 11A	
A3Z137	3 - 11A		A3Z181	3 - 11A	
A3Z138	3 - 11A		A3Z182	3 - 11A	
A3Z139	3 - 11A		A3Z183	3 - 11A	
A3Z14	3 - 11A		A3Z184	3 - 11A	
A3Z140	3 - 11A		A3Z185	3 - 11A	
A3Z141	3 - 11A		A3Z186	3 - 11A	
A3Z142	3 - 11A		A3Z187	3 - 11A	
A3Z143	3 - 11A		A3Z188	3 - 11A	
A3Z144	3 - 11A		A3Z189	3 - 11A	
A3Z145	3 - 11A		A3Z19	3 - 11A	
A3Z146	3 - 11A		A3Z190	3 - 11A	
A3Z147	3 - 11A		A3Z191	3 - 11A	
A3Z148	3 - 11A		A3Z192	3 - 11A	
A3Z149	3 - 11A		A3Z193	3 - 11A	
A3Z15	3 - 11A		A3Z194	3 - 11A	
A3Z150	3 - 11A		A3Z195	3 - 11A	
A3Z151	3 - 11A		A3Z196	3 - 11A	
A3Z152	3 - 11A		A3Z197	3 - 11A	
A3Z153	3 - 11A		A3Z198	3 - 11A	
A3Z154	3 - 11A		A3Z199	3 - 11A	
A3Z155	3 - 11A		A3Z2	3 - 11A	
A3Z156	3 - 11A		A3Z20	3 - 11A	
A3Z157	3 - 11A		A3Z200	3 - 11A	
A3Z158	3 - 11A		A3Z201	3 - 11A	
A3Z159	3 - 11A		A3Z202	3 - 11A	
A3Z16	3 - 11A		A3Z203	3 - 11A	
A3Z160	3 - 11A		A3Z204	3 - 11A	
A3Z161	3 - 11A		A3Z205	3 - 11A	
A3Z162	3 - 11A		A3Z206	3 - 11A	
A3Z163	3 - 11A		A3Z207	3 - 11A	
A3Z164	3 - 11A		A3Z208	3 - 11A	
A3Z165	3 - 11A		A3Z209	3 - 11A	
A3Z166	3 - 11A		A3Z21	3 - 11A	
A3Z167	3 - 11A		A3Z210	3 - 11A	

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Radio Test Interface Unit / Part No. 7511400

Equipment Designator	Fig. Item	Geo Loc	Equipment Designator	Fig. Item	Geo Loc
A3Z211	3 - 11A		A3Z256	3 - 11A	
A3Z212	3 - 11A		A3Z257	3 - 11A	
A3Z213	3 - 11A		A3Z258	3 - 11A	
A3Z214	3 - 11A		A3Z259	3 - 11A	
A3Z215	3 - 11A		A3Z26	3 - 11A	
A3Z216	3 - 11A		A3Z260	3 - 11A	
A3Z217	3 - 11A		A3Z261	3 - 11A	
A3Z218	3 - 11A		A3Z262	3 - 11A	
A3Z219	3 - 11A		A3Z263	3 - 11A	
A3Z22	3 - 11A		A3Z264	3 - 11A	
A3Z220	3 - 11A		A3Z265	3 - 11A	
A3Z221	3 - 11A		A3Z266	3 - 11A	
A3Z222	3 - 11A		A3Z267	3 - 11A	
A3Z223	3 - 11A		A3Z268	3 - 11A	
A3Z224	3 - 11A		A3Z269	3 - 11A	
A3Z225	3 - 11A		A3Z27	3 - 11A	
A3Z226	3 - 11A		A3Z270	3 - 11A	
A3Z227	3 - 11A		A3Z271	3 - 11A	
A3Z228	3 - 11A		A3Z272	3 - 11A	
A3Z229	3 - 11A		A3Z273	3 - 11A	
A3Z23	3 - 11A		A3Z274	3 - 11A	
A3Z230	3 - 11A		A3Z275	3 - 11A	
A3Z231	3 - 11A		A3Z276	3 - 11A	
A3Z232	3 - 11A		A3Z277	3 - 11A	
A3Z233	3 - 11A		A3Z278	3 - 11A	
A3Z234	3 - 11A		A3Z279	3 - 11A	
A3Z235	3 - 11A		A3Z28	3 - 11A	
A3Z236	3 - 11A		A3Z280	3 - 11A	
A3Z237	3 - 11A		A3Z29	3 - 11A	
A3Z238	3 - 11A		A3Z3	3 - 11A	
A3Z239	3 - 11A		A3Z30	3 - 11A	
A3Z24	3 - 11A		A3Z31	3 - 11A	
A3Z240	3 - 11A		A3Z32	3 - 11A	
A3Z241	3 - 11A		A3Z33	3 - 11A	
A3Z242	3 - 11A		A3Z34	3 - 11A	
A3Z243	3 - 11A		A3Z35	3 - 11A	
A3Z244	3 - 11A		A3Z36	3 - 11A	
A3Z245	3 - 11A		A3Z37	3 - 11A	
A3Z246	3 - 11A		A3Z38	3 - 11A	
A3Z247	3 - 11A		A3Z39	3 - 11A	
A3Z248	3 - 11A		A3Z4	3 - 11A	
A3Z249	3 - 11A		A3Z40	3 - 11A	
A3Z25	3 - 11A		A3Z41	3 - 11A	
A3Z250	3 - 11A		A3Z42	3 - 11A	
A3Z251	3 - 11A		A3Z43	3 - 11A	
A3Z252	3 - 11A		A3Z44	3 - 11A	
A3Z253	3 - 11A		A3Z45	3 - 11A	
A3Z254	3 - 11A		A3Z46	3 - 11A	
A3Z255	3 - 11A		A3Z47	3 - 11A	

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>
A3Z48	3 - 11A		A3Z92	3 - 11A	
A3Z49	3 - 11A		A3Z93	3 - 11A	
A3Z5	3 - 11A		A3Z94	3 - 11A	
A3Z50	3 - 11A		A3Z95	3 - 11A	
A3Z51	3 - 11A		A3Z96	3 - 11A	
A3Z52	3 - 11A		A3Z97	3 - 11A	
A3Z53	3 - 11A		A3Z98	3 - 11A	
A3Z54	3 - 11A		A3Z99	3 - 11A	
A3Z55	3 - 11A		A5	1 15	
A3Z56	3 - 11A		A5	1 25	
A3Z57	3 - 11A		A5C1	5 56	4C
A3Z58	3 - 11A		A5C10	5 58	5D
A3Z59	3 - 11A		A5C11	5 57	2K
A3Z6	3 - 11A		A5C12	5 57	2K
A3Z60	3 - 11A		A5C13	5 57	2L
A3Z61	3 - 11A		A5C14	5 - 54A	3M
A3Z62	3 - 11A		A5C15	5 - 54A	4M
A3Z63	3 - 11A		A5C16	5 57	2M
A3Z64	3 - 11A		A5C17	5 57	4H
A3Z65	3 - 11A		A5C18	5 57	6J
A3Z66	3 - 11A		A5C19	5 57	4M
A3Z67	3 - 11A		A5C2	5 56	4C
A3Z68	3 - 11A		A5C20	5 57	6H
A3Z69	3 - 11A		A5C21	5 57	6M
A3Z7	3 - 11A		A5C22	5 57	2F
A3Z70	3 - 11A		A5C23	5 58	5C
A3Z71	3 - 11A		A5C24	5 52	7N
A3Z72	3 - 11A		A5C25	5 57	3G
A3Z73	3 - 11A		A5C26	5 57	6L
A3Z74	3 - 11A		A5C27	5 57	6L
A3Z75	3 - 11A		A5C28	5 57	6K
A3Z76	3 - 11A		A5C29	5 51	2L
A3Z77	3 - 11A		A5C3	5 58	5D
A3Z78	3 - 11A		A5C30	5 51	4E
A3Z79	3 - 11A		A5C31	5 51	2J
A3Z8	3 - 11A		A5C32	5 51	2J
A3Z80	3 - 11A		A5C33	5 57	4G
A3Z81	3 - 11A		A5C34	5 57	3D
A3Z82	3 - 11A		A5C35	5 57	3H
A3Z83	3 - 11A		A5C36	5 57	6E
A3Z84	3 - 11A		A5C37	5 57	6D
A3Z85	3 - 11A		A5C38	5 57	4J
A3Z86	3 - 11A		A5C39	5 57	3H
A3Z87	3 - 11A		A5C4	5 53	3C
A3Z88	3 - 11A		A5C40	5 57	3D
A3Z89	3 - 11A		A5C41	5 57	2H
A3Z9	3 - 11A		A5C42	5 57	5D
A3Z90	3 - 11A		A5C43	5 59	5D
A3Z91	3 - 11A		A5C44	5 59	4E

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Radio Test Interface Unit / Part No. 7511400

<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A5C45	5	58	4E	A5U104	5	99	2L
A5C46	5	59	5D	A5U105	5	104	5E
A5C47	5	57	5D	A5U106	5	98	3F
A5C48	5	59	5C	A5U107	5	96	4F
A5C49	5	57	5C	A5U108	5	98	5F
A5C5	5	57	4E	A5U109	5	103	3M
A5C50	5	55	4D	A5U110	5	109	5H
A5C51	5	60	7D	A5U110	5	110	5H
A5C52	5	57	4K	A5U110	5	-110A	5H
A5C53	5	57	4L	A5U111	5	100	6J
A5C6	5	57	2F	A5U112	5	-102A	5M
A5C7	5	57	3F	A5U113	5	- 91A	7M
A5C8	5	57	4F	A5U114	5	- 95A	5D
A5C9	5	57	5F	A5U115	5	- 89A	3F
A5CR1	5	61	3C	A5U116	5	-105A	6H
A5CR2	5	63	1H	A5U117	5	- 84A	3D
A5CR3	5	63	1H	A5U118	5	- 85A	2F
A5CR4	5	63	1G	A5U119	5	- 86A	3G
A5CR5	5	63	1G	A5U120	5	- 90A	7L
A5CR6	5	63	1G	A5U121	5	- 90A	7L
A5CR7	5	63	1G	A5U122	5	- 90A	7K
A5CR8	5	- 62A	3J	A5U123	5	- 89A	3G
A5J3	5	- 65A	1K	A5U124	5	- 93A	6E
A5J4	5	- 64A	1J	A5U125	5	- 90A	6D
A5J5	5	- 66A	1M	A5U126	5	- 87A	3D
A5Q1	5	68	2J	A5U127	5	- 97A	5G
A5Q2	5	- 67A	4D	A5U128	5	- 89A	3H
A5Q3	5	- 67A	6C	A5U129	5	-102A	5J
A5R1	5	74	5C	A5U130	5	92	2H
A5R10	5	76	4D	A5U131	5	- 80A	2G
A5R11	5	76	4D	A5U134	5	- 82A	7E
A5R12	5	76	4D	A5U135	5	- 82A	6E
A5R13	5	- 70A	6C	A5U136	5	- 83A	7D
A5R14	5	72	6C	A5U137	5	- 83A	6D
A5R15	5	108	7C	A5U138	5	- 81A	6D
A5R16	5	69	7C	A5Y1	5	107	4C
A5R2	5	77	5C	A5Y2	5	106	4L
A5R3	5	73	3C	A6	1	16	
A5R4	5	76	7J	A6	1	26	
A5R5	5	72	2L	A6C1	6	54	2E
A5R6	5	72	2L	A6C11	6	55	1M
A5R7	5	72	3D	A6C13	6	55	1L
A5R8	5	75	3J	A6C15	6	55	5M
A5R9	5	- 71A	3J	A6C16	6	55	5L
A5TP1	5	- 78A	2D	A6C17	6	55	5P
A5TP2	5	- 78A	2E	A6C18	6	55	5M
A5U101	5	- 94A	5C	A6C19	6	55	5L
A5U102	5	- 88A	5D	A6C2	6	54	2E
A5U103	5	79	2K	A6C20	6	55	5N

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A6C202	6	55	4H	A6C43	6	54	7H
A6C203	6	55	3H	A6C44	6	54	7H
A6C204	6	55	4J	A6C45	6	55	4N
A6C205	6	55	4J	A6C46	6	55	2P
A6C206	6	55	3G	A6C47	6	55	4K
A6C207	6	55	3G	A6C48	6	52	6G
A6C208	6	55	2C	A6C49	6	52	6G
A6C209	6	55	2C	A6C5	6	55	1N
A6C21	6	55	2M	A6C50	6	53	6G
A6C210	6	55	2D	A6C51	6	55	5J
A6C211	6	55	1C	A6C52	6	55	2J
A6C212	6	55	1D	A6C53	6	55	1F
A6C213	6	55	1D	A6C54	6	55	5J
A6C214	6	55	2E	A6C55	6	55	1K
A6C215	6	55	3E	A6C57	6	55	2L
A6C216	6	55	3F	A6C59	6	55	4J
A6C217	6	55	1E	A6C60	6	55	2J
A6C218	6	55	2E	A6C61	6	55	5H
A6C219	6	55	2F	A6C62	6	55	1M
A6C220	6	55	4E	A6C63	6	57	6H
A6C221	6	55	6E	A6C64	6	57	6H
A6C222	6	55	4E	A6C65	6	54	6H
A6C223	6	55	4C	A6C66	6	54	6H
A6C224	6	55	6C	A6C67	6	55	1H
A6C225	6	55	4G	A6C68	6	51	7P
A6C228	6	55	6C	A6C69	6	56	2J
A6C229	6	55	2G	A6C7	6	55	5K
A6C230	6	55	6E	A6C70	6	114	2J
A6C231	6	55	3E	A6C71	6	64	2J
A6C232	6	55	3C	A6C72	6	56	2F
A6C24	6	55	2N	A6C73	6	114	2F
A6C27	6	55	2H	A6C74	6	64	3F
A6C28	6	55	1J	A6C75	6	56	3L
A6C29	6	55	1K	A6C76	6	114	2L
A6C3	6	54	3K	A6C77	6	56	5J
A6C30	6	55	4M	A6C78	6	56	5H
A6C31	6	57	7H	A6C8	6	55	6K
A6C32	6	57	7H	A6C9	6	55	1F
A6C33	6	57	6H	A6CR202	6	58	5F
A6C34	6	57	6H	A6CR203	6	58	5F
A6C35	6	55	4L	A6CR204	6	58	5F
A6C36	6	55	4P	A6CR205	6	58	5F
A6C37	6	55	4M	A6CR206	6	58	5F
A6C38	6	55	4L	A6CR207	6	58	5F
A6C39	6	54	7J	A6CR208	6	58	5F
A6C4	6	54	3J	A6CR209	6	58	5F
A6C40	6	54	7J	A6CR210	6	58	5C
A6C41	6	54	6J	A6CR211	6	58	5C
A6C42	6	54	6J	A6CR212	6	58	5C

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<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A6CR213	6	58	5C	A6R226	6	73	3F
A6CR214	6	58	5C	A6R227	6	73	3G
A6CR215	6	58	5C	A6R228	6	93	6H
A6CR216	6	58	5C	A6R229	6	93	5J
A6CR217	6	58	5C	A6R27	6	- 65A	7G
A6CR218	6	58	3C	A6R28	6	- 65A	7G
A6CR219	6	58	3C	A6R29	6	- 65A	7G
A6CR220	6	58	4C	A6R30	6	- 65A	7G
A6CR221	6	58	4C	A6R35	6	75	7H
A6CR222	6	58	4C	A6R36	6	75	7H
A6CR223	6	58	4C	A6R37	6	75	6H
A6CR224	6	58	4C	A6R38	6	75	6H
A6CR225	6	58	4C	A6R48	6	76	2M
A6J3	6	- 59A	1H	A6R49	6	76	2M
A6L1	6	- 61A	7G	A6R50	6	76	1L
A6L10	6	60	6G	A6R51	6	76	2M
A6L11	6	- 61A	6G	A6R56	6	- 68A	1E
A6L12	6	- 61A	7G	A6R57	6	- 67A	3K
A6L2	6	- 61A	7G	A6R58	6	- 65A	6G
A6L3	6	- 61A	7G	A6R59	6	- 65A	7G
A6L4	6	- 61A	7G	A6R60	6	75	6H
A6L9	6	60	6G	A6R61	6	75	6H
A6Q203	6	- 63A	6F	A6R62	6	71	7F
A6Q204	6	- 63A	6D	A6R63	6	76	7J
A6Q205	6	- 63A	4D	A6R64	6	76	7J
A6R10	6	- 70A	3K	A6R65	6	118	7J
A6R11	6	79	7G	A6R66	6	118	7J
A6R12	6	- 66A	7G	A6R9	6	- 70A	1E
A6R13	6	79	7G	A6S1	6	69	1J
A6R14	6	- 72A	6H	A6T1	6	82	7H
A6R15	6	78	5H	A6T2	6	82	6H
A6R16	6	74	6H	A6T3	6	82	6G
A6R17	6	- 72A	7G	A6TP1	6	- 4A	4H
A6R18	6	- 72A	7G	A6U1	6	- 94A	6K
A6R203	6	77	4G	A6U10	6	-104A	6M
A6R212	6	80	5G	A6U11	6	-104A	6K
A6R213	6	76	6F	A6U12	6	-104A	6N
A6R214	6	119	6F	A6U13	6	-104A	4M
A6R215	6	74	6D	A6U14	6	-104A	4L
A6R216	6	76	6D	A6U15	6	-104A	4N
A6R217	6	119	6D	A6U16	6	-104A	4M
A6R218	6	80	5E	A6U17	6	-104A	4K
A6R219	6	77	5C	A6U18	6	-104A	4N
A6R220	6	95	3G	A6U2	6	-100A	2N
A6R221	6	95	6J	A6U20	6	- 98A	7K
A6R222	6	76	5D	A6U201	6	- 92A	6E
A6R223	6	119	4D	A6U203	6	-100A	4H
A6R224	6	80	4E	A6U204	6	-100A	4G
A6R225	6	77	3D	A6U205	6	- 96A	4J

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<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>
A6U206	6 - 96A	4H	A6U26	6 -103A	2L
A6U207	6 - 96A	4G	A6U27	6 -112A	3M
A6U208	6 - 96A	4F	A6U30	6 -112A	3L
A6U209	6 -105A	3C	A6U33	6 120	3N
A6U210	6 -105A	3C	A6U33	6 122	3N
A6U211	6 -105A	3D	A6U34	6 -110A	3H
A6U212	6 -101A	1C	A6U36	6 -111A	1G
A6U213	6 -101A	1C	A6U4	6 -106A	4K
A6U214	6 -101A	1D	A6U41	6 - 89A	6J
A6U215	6 -102A	6C	A6U43	6 - 90A	6J
A6U216	6 -105A	3D	A6U46	6 113	3K
A6U217	6 -105A	4E	A6U50	6 -100A	2K
A6U218	6 -105A	4F	A6U52	6 -106A	4J
A6U219	6 -101A	1D	A6U55	6 -108A	3J
A6U220	6 -101A	2E	A6U57	6 121	5H
A6U221	6 -101A	2F	A6U59	6 - 92A	1F
A6U222	6 -105A	5E	A6U6	6 - 96A	1M
A6U224	6 91	5F	A6U65	6 - 96A	1M
A6U227	6 - 86A	5G	A6U66	6 -107A	1H
A6U228	6 -103A	5G	A6U67	6 -107A	1G
A6U229	6 - 81A	6D	A6U7	6 -104A	6M
A6U23	6 - 97A	3H	A6U8	6 -104A	6L
A6U230	6 -103A	6E	A6U9	6 -104A	6N
A6U232	6 -103A	5E	A6Y1	6 117	1E
A6U233	6 -105A	5C	A6Y2	6 115	4K
A6U234	6 -105A	6C	A6Y3	6 116	2K
A6U235	6 - 88A	5G	A7	1 17	
A6U236	6 - 83A	3F	A7C1	7 61	3D
A6U237	6 - 99A	3G	A7C10	7 61	3J
A6U238	6 - 85A	5F	A7C100	7 51	4E
A6U239	6 91	5C	A7C101	7 61	6K
A6U240	6 - 86A	5E	A7C102	7 61	6J
A6U241	6 - 85A	5D	A7C103	7 51	4J
A6U242	6 - 88A	5D	A7C104	7 51	4J
A6U243	6 - 88A	5D	A7C105	7 61	6H
A6U244	6 - 84A	6C	A7C106	7 61	6G
A6U245	6 - 84A	6B	A7C107	7 51	4G
A6U246	6 -103A	4E	A7C108	7 51	4G
A6U247	6 -105A	4C	A7C109	7 61	6F
A6U248	6 91	4C	A7C11	7 61	3J
A6U249	6 - 86A	4E	A7C110	7 61	6F
A6U25	6 - 98A	1K	A7C111	7 51	4F
A6U250	6 - 85A	4D	A7C112	7 51	4F
A6U251	6 - 88A	4D	A7C113	7 61	6J
A6U252	6 - 88A	4D	A7C114	7 61	6H
A6U253	6 - 87A	6D	A7C115	7 51	4H
A6U254	6 - 87A	6E	A7C116	7 51	4H
A6U255	6 - 84A	6D	A7C117	7 61	6D
A6U256	6 - 88A	5G	A7C118	7 61	6C

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<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A7C119	7	51	4C	A7C26	7	61	7C
A7C12	7	61	3J	A7C27	7	61	6L
A7C120	7	51	4D	A7C28	7	52	7L
A7C121	7	61	6D	A7C29	7	52	7N
A7C122	7	61	6D	A7C3	7	61	3D
A7C123	7	51	6E	A7C30	7	53A	7K
A7C124	7	51	6D	A7C31	7	61	3L
A7C125	7	61	6C	A7C32	7	61	3L
A7C126	7	61	6B	A7C33	7	61	4L
A7C127	7	51	6C	A7C34	7	55	3L
A7C128	7	55	3L	A7C35	7	61	3L
A7C129	7	61	4L	A7C36	7	61	2L
A7C13	7	61	3K	A7C37	7	61	3K
A7C130	7	61	5L	A7C38	7	57	5L
A7C131	7	113	5L	A7C39	7	59	5M
A7C132	7	61	5M	A7C4	7	61	3D
A7C133	7	61	5M	A7C40	7	60	5N
A7C134	7	61	5M	A7C41	7	61	5L
A7C135	7	55	3L	A7C42	7	61	5K
A7C136	7	61	2L	A7C43	7	61	4K
A7C137	7	61	5N	A7C44	7	61	6K
A7C138	7	61	6N	A7C45	7	61	3L
A7C139	7	54	2V	A7C46	7	61	4K
A7C14	7	61	3J	A7C47	7	113	6L
A7C140	7	54	2V	A7C48	7	113	6L
A7C141	7	54	2Y	A7C49	7	113	6K
A7C142	7	54	2Y	A7C5	7	61	3D
A7C143	7	54	2AB	A7C50	7	113	5L
A7C144	7	54	2AB	A7C51	7	113	6M
A7C145	7	54	3AC	A7C52	7	113	6M
A7C146	7	54	2AB	A7C53	7	113	6N
A7C147	7	54	3V	A7C54	7	61	5M
A7C148	7	54	2U	A7C55	7	61	6M
A7C149	7	54	3Y	A7C56	7	61	5N
A7C15	7	51	2H	A7C57	7	61	6N
A7C150	7	54	2X	A7C58	7	61	4M
A7C151	7	126	2AA	A7C59	7	61	4M
A7C152	7	127	4U	A7C6	7	61	3D
A7C16	7	51	2K	A7C60	7	61	4N
A7C17	7	61	3F	A7C61	7	61	3L
A7C18	7	61	3F	A7C62	7	61	4L
A7C19	7	61	3G	A7C63	7	113	4L
A7C2	7	61	3C	A7C64	7	61	2L
A7C20	7	61	3F	A7C65	7	61	2L
A7C21	7	61	3G	A7C66	7	56	2S
A7C22	7	61	3F	A7C67	7	54	3M
A7C23	7	51	2E	A7C68	7	54	3M
A7C24	7	51	2G	A7C69	7	61	3M
A7C25	7	61	7C	A7C7	7	51	2C

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<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A7C70	7	61	3M	A7CR27	7	62	7F
A7C71	7	61	2M	A7CR28	7	62	7F
A7C72	7	61	2M	A7CR29	7	62	7J
A7C73	7	54	4N	A7CR3	7	62	2D
A7C74	7	54	3M	A7CR30	7	62	7J
A7C75	7	61	3M	A7CR31	7	62	7J
A7C76	7	61	3M	A7CR32	7	62	7J
A7C77	7	61	2N	A7CR33	7	62	7H
A7C78	7	61	2N	A7CR34	7	62	7H
A7C79	7	58	2R	A7CR35	7	62	5D
A7C8	7	51	2D	A7CR36	7	62	5D
A7C80	7	58	2R	A7CR37	7	62	5D
A7C81	7	54	4N	A7CR38	7	62	5E
A7C82	7	54	3N	A7CR39	7	62	5J
A7C83	7	61	3N	A7CR4	7	62	2D
A7C84	7	61	3N	A7CR40	7	62	5J
A7C85	7	61	2M	A7CR41	7	62	5K
A7C86	7	61	2M	A7CR42	7	62	5K
A7C87	7	58	2R	A7CR43	7	62	5G
A7C88	7	58	2R	A7CR44	7	62	5G
A7C89	7	51	6H	A7CR45	7	62	5G
A7C9	7	61	3J	A7CR46	7	62	5G
A7C90	7	51	6G	A7CR47	7	62	5F
A7C91	7	51	6G	A7CR48	7	62	5F
A7C92	7	51	6F	A7CR49	7	62	5F
A7C93	7	51	6F	A7CR5	7	62	2J
A7C94	7	51	6J	A7CR50	7	62	5F
A7C95	7	51	6J	A7CR51	7	62	5H
A7C96	7	51	6H	A7CR52	7	62	5H
A7C99	7	51	4D	A7CR53	7	62	5H
A7CR1	7	62	2C	A7CR54	7	62	5J
A7CR10	7	62	2F	A7CR55	7	62	5D
A7CR11	7	62	2G	A7CR56	7	62	5C
A7CR12	7	62	2F	A7CR57	7	62	5D
A7CR13	7	62	7B	A7CR58	7	62	5D
A7CR14	7	62	7B	A7CR59	7	62	6C
A7CR15	7	120	4L	A7CR6	7	62	2J
A7CR16	7	120	5L	A7CR60	7	62	6C
A7CR17	7	62	5N	A7CR61	7	62	6D
A7CR18	7	62	5N	A7CR62	7	62	6D
A7CR19	7	62	7H	A7CR63	7	62	5B
A7CR2	7	62	2D	A7CR64	7	62	5B
A7CR20	7	62	7H	A7CR65	7	-121A	7K
A7CR21	7	62	7G	A7CR66	7	125	7L
A7CR22	7	62	7G	A7CR67	7	125	7M
A7CR23	7	62	7G	A7CR68	7	-121A	4T
A7CR24	7	62	7G	A7CR69	7	-121A	3T
A7CR25	7	62	7F	A7CR7	7	62	2J
A7CR26	7	62	7F	A7CR70	7	-121A	5L

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<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>
A7CR71	7 -121A	3T	A7R154	7 123	2R
A7CR72	7 122	3T	A7R155	7 123	2R
A7CR73	7 122	2T	A7R156	7 123	2R
A7CR74	7 122	3R	A7R157	7 123	2R
A7CR75	7 122	3S	A7R158	7 124	3L
A7CR76	7 122	3R	A7R159	7 124	3M
A7CR77	7 122	3R	A7R160	7 124	3M
A7CR78	7 122	3R	A7R161	7 124	3N
A7CR79	7 122	3R	A7R162	7 124	3N
A7CR8	7 62	2J	A7R17	7 - 74A	2J
A7CR80	7 122	3R	A7R19	7 - 74A	2J
A7CR81	7 122	3R	A7R21	7 - 72A	3F
A7CR9	7 62	2F	A7R24	7 - 72A	3E
A7J3	7 - 64A	2D	A7R27	7 - 74A	2F
A7L1	7 115	4C	A7R29	7 - 74A	2G
A7L2	7 115	5C	A7R31	7 91	7B
A7L3	7 115	3H	A7R32	7 - 83A	7C
A7L4	7 115	3H	A7R33	7 - 77A	7B
A7L5	7 66	3E	A7R34	7 - 75A	7B
A7L6	7 66	3E	A7R35	7 86	7B
A7Q1	7 - 68A	3L	A7R36	7 - 83A	3L
A7Q2	7 -110A	4L	A7R37	7 91	3L
A7Q3	7 67	3L	A7R38	7 86	3L
A7R1	7 118	2C	A7R39	7 84	4L
A7R100	7 - 74A	5D	A7R4	7 118	3B
A7R102	7 116	4E	A7R40	7 - 83A	4L
A7R103	7 - 81A	5D	A7R41	7 84	4L
A7R104	7 - 79A	5D	A7R42	7 85	5L
A7R105	7 - 74A	5E	A7R43	7 - 76A	5M
A7R109	7 - 74A	5J	A7R46	7 - 78A	5L
A7R11	7 117	2K	A7R47	7 87	5L
A7R113	7 - 74A	5K	A7R48	7 88	2M
A7R117	7 - 74A	5G	A7R49	7 - 78A	5L
A7R121	7 - 74A	5G	A7R50	7 87	5L
A7R125	7 - 74A	5F	A7R51	7 91	2M
A7R129	7 - 74A	5F	A7R52	7 91	2M
A7R133	7 - 74A	5H	A7R53	7 87	2M
A7R137	7 - 74A	5J	A7R54	7 87	2M
A7R139	7 - 74A	5C	A7R55	7 87	2N
A7R14	7 117	2J	A7R56	7 87	2N
A7R141	7 - 74A	5D	A7R57	7 -109A	7H
A7R143	7 - 74A	6C	A7R58	7 - 81A	7H
A7R145	7 - 74A	6D	A7R59	7 - 79A	7H
A7R147	7 - 74A	5B	A7R60	7 - 74A	7H
A7R149	7 91	2L	A7R62	7 -109A	7G
A7R150	7 - 83A	2L	A7R63	7 - 81A	7H
A7R151	7 86	3L	A7R64	7 - 79A	7H
A7R152	7 - 78A	8AC	A7R65	7 - 74A	7G
A7R153	7 123	2S	A7R67	7 -109A	7G

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<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig. Item</u>	<u>Geo</u> <u>Loc</u>
A7R68	7 - 81A	7G	A7U27	7 -112A	6L
A7R69	7 - 79A	7G	A7U28	7 -112A	7M
A7R7	7 - 74A	2C	A7U29	7 - 98A	7N
A7R70	7 - 74A	7G	A7U3	7 104	3D
A7R72	7 -108A	7Z	A7U30	7 - 99A	7M
A7R73	7 - 81A	7G	A7U31	7 -103A	6M
A7R74	7 - 79A	7G	A7U32	7 -103A	6N
A7R75	7 - 74A	7F	A7U33	7 105	4M
A7R77	7 -108A	7AA	A7U34	7 105	4M
A7R78	7 - 81A	7F	A7U35	7 105	4N
A7R79	7 - 79A	7F	A7U36	7 -103A	3L
A7R80	7 - 74A	7F	A7U37	7 94	2M
A7R82	7 -108A	7U	A7U38	7 - 96A	4L
A7R83	7 - 81A	7K	A7U39	7 104	2L
A7R84	7 - 79A	7K	A7U4	7 94	3D
A7R85	7 - 74A	7J	A7U40	7 104	3M
A7R87	7 -109A	7K	A7U41	7 104	2M
A7R88	7 - 81A	7J	A7U42	7 94	2M
A7R89	7 - 79A	7J	A7U43	7 104	3M
A7R9	7 - 74A	2D	A7U44	7 104	2M
A7R90	7 - 74A	7J	A7U45	7 94	3M
A7R92	7 -109A	7J	A7U46	7 94	2M
A7R93	7 - 81A	7J	A7U47	7 104	3N
A7R94	7 - 79A	7J	A7U48	7 104	2N
A7R95	7 - 74A	7H	A7U49	7 94	3N
A7R97	7 -109A	4D	A7U5	7 -103A	3D
A7R98	7 - 81A	5D	A7U50	7 94	2N
A7R99	7 - 79A	5D	A7U54	7 104	5J
A7U1	7 94	3C	A7U55	7 94	5J
A7U10	7 -103A	3K	A7U56	7 94	5K
A7U100	7 94	5H	A7U57	7 104	5G
A7U101	7 94	5H	A7U58	7 94	5G
A7U11	7 94	3F	A7U59	7 94	5G
A7U12	7 -103A	3F	A7U6	7 94	3J
A7U13	7 94	3G	A7U60	7 104	5F
A7U14	7 -103A	3G	A7U61	7 111	5F
A7U15	7 - 95A	7L	A7U62	7 111	5F
A7U16	7 -106A	2L	A7U63	7 104	5H
A7U17	7 104	3L	A7U64	7 94	5H
A7U18	7 94	2L	A7U65	7 94	5J
A7U19	7 -102A	3K	A7U66	7 104	5D
A7U2	7 -103A	3C	A7U67	7 94	5C
A7U20	7 107	5M	A7U68	7 94	6C
A7U21	7 -102A	6K	A7U69	7 94	5D
A7U22	7 -102A	5K	A7U7	7 -103A	3J
A7U23	7 -102A	4K	A7U70	7 94	6D
A7U24	7 - 97A	7L	A7U71	7 104	7D
A7U25	7 -100A	7L	A7U72	7 94	7C
A7U26	7 - 98A	7K	A7U73	7 94	7D

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A7U74	7	94	7D	A8C118	8	109	3C
A7U75	7	94	7D	A8C119	8	110	3C
A7U76	7	104	6B	A8C12	8	57	4J
A7U77	7	94	6B	A8C120	8	58	2B
A7U78	7	- 93A	7C	A8C121	8	58	3F
A7U79	7	104	3F	A8C122	8	110	3F
A7U8	7	104	3J	A8C123	8	58	2K
A7U80	7	94	3C	A8C124	8	110	2K
A7U81	7	94	3C	A8C125	8	57	5G
A7U82	7	94	3C	A8C13	8	57	4K
A7U83	7	94	3J	A8C14	8	57	4L
A7U84	7	94	3J	A8C15	8	57	4H
A7U85	7	94	3K	A8C16	8	57	4K
A7U86	7	94	3F	A8C17	8	57	3L
A7U87	7	94	3F	A8C18	8	57	3E
A7U88	7	94	2F	A8C19	8	57	2H
A7U89	7	104	5M	A8C2	8	54	5H
A7U9	7	94	3K	A8C20	8	57	3F
A7U90	7	104	5N	A8C21	8	57	6G
A7U91	7	94	5J	A8C22	8	57	6H
A7U92	7	94	5J	A8C23	8	57	6K
A7U93	7	94	5G	A8C24	8	57	6K
A7U94	7	94	5F	A8C25	8	57	1L
A7U95	7	94	5G	A8C26	8	58	6B
A7U96	7	111	5E	A8C27	8	58	5G
A7U97	7	94	5E	A8C29	8	53	7D
A7U98	7	111	5E	A8C3	8	54	5H
A7U99	7	94	5G	A8C30	8	53	7D
A8	1	18		A8C31	8	58	5C
A8	1	28		A8C32	8	53	7C
A8C1	8	57	6M	A8C33	8	53	7C
A8C10	8	57	1G	A8C34	8	53	6C
A8C100	8	57	4F	A8C35	8	53	7C
A8C101	8	57	3D	A8C36	8	53	7C
A8C102	8	57	2J	A8C37	8	53	7C
A8C103	8	56	3E	A8C38	8	53	7C
A8C104	8	53	7F	A8C39	8	53	7C
A8C105	8	53	7F	A8C4	8	55	6G
A8C106	8	53	7F	A8C40	8	53	7D
A8C107	8	53	7F	A8C41	8	53	7D
A8C108	8	53	7D	A8C42	8	53	6D
A8C109	8	53	7D	A8C43	8	53	7D
A8C11	8	57	1H	A8C44	8	58	5D
A8C111	8	57	2J	A8C45	8	58	5E
A8C113	8	53	5F	A8C46	8	53	6E
A8C114	8	53	5F	A8C47	8	53	7E
A8C115	8	53	7B	A8C48	8	53	7E
A8C116	8	56	3E	A8C49	8	53	7E
A8C117	8	53	7B	A8C5	8	55	7G

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Radio Test Interface Unit / Part No. 7511400

<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>	<u>Equipment</u> <u>Designator</u>	<u>Fig.</u>	<u>Item</u>	<u>Geo</u> <u>Loc</u>
A8C50	8	53	7E	A8CR3	8	59	6J
A8C51	8	53	7E	A8CR4	8	59	7J
A8C52	8	53	7E	A8CR5	8	59	6G
A8C53	8	53	7E	A8CR6	8	59	6G
A8C54	8	53	7F	A8CR7	8	59	7G
A8C55	8	53	6F	A8CR8	8	59	7G
A8C56	8	53	7F	A8CR9	8	59	6H
A8C57	8	53	7F	A8Q1	8	– 62A	5J
A8C58	8	58	5F	A8Q2	8	61	5J
A8C59	8	109	7M	A8Q3	8	– 62A	6J
A8C6	8	55	7G	A8Q4	8	61	6J
A8C60	8	109	7M	A8R1	8	68	6G
A8C61	8	51	7N	A8R10	8	68	7G
A8C62	8	110	7N	A8R100	8	75	7E
A8C63	8	55	6J	A8R101	8	75	7E
A8C64	8	55	7J	A8R102	8	74	7C
A8C65	8	55	7K	A8R103	8	74	7C
A8C66	8	55	7K	A8R104	8	78	5G
A8C67	8	57	6L	A8R105	8	78	5G
A8C68	8	58	1N	A8R106	8	75	5G
A8C69	8	57	4N	A8R107	8	74	7C
A8C7	8	55	7G	A8R108	8	74	7C
A8C70	8	57	1M	A8R109	8	74	6B
A8C71	8	57	2M	A8R11	8	72	7H
A8C74	8	52	5H	A8R110	8	– 66A	6H
A8C75	8	52	5H	A8R111	8	– 66A	6J
A8C76	8	57	5J	A8R112	8	– 63A	5H
A8C77	8	57	5J	A8R113	8	68	7G
A8C78	8	57	6N	A8R114	8	68	6G
A8C79	8	57	5L	A8R115	8	68	6H
A8C8	8	55	7H	A8R12	8	69	7G
A8C81	8	57	5N	A8R13	8	70	6G
A8C82	8	57	5M	A8R14	8	70	7G
A8C83	8	57	5N	A8R15	8	68	7H
A8C85	8	57	4M	A8R16	8	68	6H
A8C86	8	57	2K	A8R17	8	68	7H
A8C89	8	57	5L	A8R18	8	72	7H
A8C9	8	55	6H	A8R19	8	69	6H
A8C90	8	57	5D	A8R2	8	68	6G
A8C91	8	57	6L	A8R20	8	70	6H
A8C92	8	57	5B	A8R21	8	70	7H
A8C93	8	57	4E	A8R22	8	– 66A	5J
A8C94	8	57	1D	A8R23	8	76	7J
A8C95	8	57	1F	A8R24	8	74	7B
A8C98	8	57	3C	A8R25	8	75	5G
A8C99	8	57	3F	A8R26	8	74	7C
A8CR10	8	59	6H	A8R27	8	74	7C
A8CR11	8	59	6J	A8R28	8	74	6C
A8CR12	8	59	7J	A8R29	8	74	7C

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

Equipment
Designator **Fig. Item** **Geo**
Loc

A8R3	8 72	6G
A8R30	8 74	7C
A8R31	8 74	7C
A8R32	8 74	7C
A8R33	8 74	7C
A8R34	8 74	7D
A8R35	8 74	7D
A8R36	8 74	6D
A8R37	8 74	7D
A8R38	8 113	6D
A8R39	8 -112A	6E
A8R4	8 68	6G
A8R40	8 -112A	7E
A8R41	8 113	7D
A8R42	8 113	7D
A8R43	8 -112A	7E
A8R44	8 -112A	7E
A8R45	8 113	7D
A8R46	8 113	7D
A8R47	8 -112A	7E
A8R48	8 -112A	7E
A8R49	8 113	7D
A8R5	8 69	6G
A8R50	8 113	7D
A8R51	8 -112A	7E
A8R52	8 -112A	7E
A8R53	8 113	7D
A8R54	8 113	7E
A8R55	8 113	6E
A8R56	8 113	7E
A8R57	8 113	7E
A8R58	8 72	7J
A8R59	8 72	7J
A8R6	8 70	6G
A8R60	8 68	7J
A8R61	8 68	6J
A8R62	8 68	7J
A8R63	8 68	6J
A8R64	8 - 65A	7J
A8R65	8 77	6J
A8R66	8 76	6J
A8R67	8 - 64A	6J
A8R68	8 71	6J
A8R69	8 72	7K
A8R7	8 70	6G
A8R70	8 72	7J
A8R71	8 68	7K
A8R72	8 68	7J
A8R73	8 68	7J

Equipment
Designator **Fig. Item** **Geo**
Loc

A8R74	8 68	7J
A8R75	8 - 65A	7J
A8R76	8 77	6J
A8R77	8 77	2N
A8R78	8 - 66A	5J
A8R79	8 - 63A	5G
A8R8	8 68	7G
A8R80	8 -112A	7F
A8R81	8 -112A	6F
A8R82	8 -112A	7F
A8R83	8 -112A	7F
A8R84	8 69	5H
A8R85	8 69	5H
A8R86	8 69	5H
A8R87	8 69	5H
A8R88	8 69	5H
A8R89	8 69	5H
A8R9	8 68	7G
A8R90	8 69	5H
A8R91	8 69	5H
A8R92	8 - 67A	3E
A8R93	8 73	3E
A8R94	8 78	7E
A8R95	8 78	7E
A8R96	8 78	7E
A8R97	8 78	7E
A8R98	8 75	7F
A8R99	8 75	7F
A8TP1	8 - 4A	2C
A8U1	8 - 87A	6N
A8U10	8 - 98A	4M
A8U11	8 - 90A	5N
A8U12	8 - 90A	5N
A8U13	8 - 93A	4J
A8U14	8 - 93A	4K
A8U15	8 - 93A	4L
A8U16	8 - 95A	4H
A8U17	8 - 95A	4J
A8U18	8 - 95A	4L
A8U19	8 -105A	4D
A8U2	8 - 99A	3J
A8U20	8 80	2K
A8U22	8 86	5H
A8U23	8 - 96A	2L
A8U24	8 - 81A	7F
A8U25	8 - 85A	6C
A8U26	8 - 85A	6D
A8U28	8 102	4E
A8U29	8 - 84A	6E

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Equipment Designator</u>	<u>Fig. Item</u>	<u>Geo Loc</u>	<u>Equipment Designator</u>	<u>Fig. Item</u>	<u>Geo Loc</u>
A8U3	8 - 88A	6M	J13	18 29	
A8U30	8 - 84A	6F	P11	17 6	
A8U32	8 - 90A	3H	P12	17 6	
A8U34	8 79	2N	P15	21 7	
A8U35	8 - 95A	4N	R1	18 23	
A8U36	8 - 95A	2M	R2	18 22	
A8U37	8 - 95A	3M	SS1	18 - 28A	
A8U39	8 - 87A	3E	SS2	18 26	
A8U4	8 - 91A	6L	SS3	18 - 28A	
A8U42	8 - 89A	5L	SS4	18 - 28A	
A8U43	8 106	4B	SS5	18 26	
A8U44	8 - 91A	6L	W10	1 21	
A8U45	8 103	4F	W10P1	14 13	
A8U46	8 103	4F	W10P2	14 13	
A8U47	8 - 94A	2C	W10SS1	14 25	
A8U48	8 - 96A	2E	W10SS10	14 25	
A8U49	8 - 82A	2C	W10SS2	14 25	
A8U5	8 - 89A	5L	W10SS3	14 25	
A8U50	8 - 82A	2F	W10SS4	14 25	
A8U51	8 - 82A	2E	W10SS5	14 25	
A8U52	8 107	2C	W10SS6	14 25	
A8U53	8 107	2F	W10SS7	14 25	
A8U54	8 107	2D	W10SS8	14 25	
A8U59	8 101	6D	W10SS9	14 25	
A8U6	8 - 89A	5M	W11	1 24	
A8U60	8 100	6B	W9	1 21	
A8U61	8 111	4C	W9P1	14 13	
A8U61	8 114	4C	W9P2	14 13	
A8U62	8 - 89A	3H	W9SS1	14 25	
A8U63	8 - 84A	5G	W9SS10	14 25	
A8U64	8 - 85A	7B	W9SS2	14 25	
A8U65	8 - 81A	2B	W9SS3	14 25	
A8U66	8 - 81A	2G	W9SS4	14 25	
A8U67	8 - 81A	2D	W9SS5	14 25	
A8U68	8 - 87A	6F	W9SS6	14 25	
A8U8	8 - 93A	2G	W9SS7	14 25	
A8U9	8 - 97A	2H	W9SS8	14 25	
A8Y1	8 108	3D	W9SS9	14 25	
CR1	18 - 24A				

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

5. Numerical Index

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
AD7549KN		7 105	3
AD7582KN		7 107	1
AM26LS31DM		6 89	1
(REPL BY ITEM 89A)			
		8 85	3
(REPL BY ITEM 85A)			
AM26LS32AMJ		8 - 84A	3
(REPL ITEM 84)			
AM26LS32DM		8 84	3
(REPL BY ITEM 84A)			
AM26LS34BEA		6 - 90A	1
(REPL ITEM 90)			
AM26LS34DM		6 90	1
(REPL BY ITEM 90A)			
A214-18		5 106	1
A214-19		8 108	1
A214-2		6 115	1
A214-20		5 107	1
A214-9		6 116	1
		10 129	1
A229-16		6 117	1
BS41543F		19 19	6
		23 19	1
B55746		9 38	1
CAD04-23B63		5 - 64A	1
(REPL ITEM 64)			
		6 - 59A	1
(REPL ITEM 59)			
		7 - 64A	1
(REPL ITEM 64)			
CAD26-23B63		5 - 65A	1
(REPL ITEM 65)			
CAD60-23B63		11 - 9A	4
(REPL ITEM 9)			
CD54HCT125F		6 121	1
CD54HCT151F		8 101	1
CD54HCT244F		5 96	1
CD54HCU04F		5 94	1
(REPL BY ITEM 94A)			
CD54HC00F		6 107	2
(REPL BY ITEM 107A)			
		8 98	1
(REPL BY ITEM 98A)			
CD54HC08F		10 109	1
(REPL BY ITEM 109A)			
CD54HC107F		5 88	1
(REPL BY ITEM 88A)			

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
CD54HC125F (REPL BY ITEM 99A)		6 99	1
CD54HC138F (REPL BY ITEM 89A)		5 89	3
		6 100	4
(REPL BY ITEM 100A)		7 100	1
(REPL BY ITEM 100A)		8 91	2
(REPL BY ITEM 91A)		10 112	1
(REPL BY ITEM 112A)		5 84	1
CD54HC14F (REPL BY ITEM 84A)		7 96	1
(REPL BY ITEM 96A)		10 113	1
CD54HC151F (REPL BY ITEM 113A)		8 93	4
CD54HC165F (REPL BY ITEM 93A)		6 101	6
CD54HC175F (REPL BY ITEM 101A)		6 102	1
(REPL BY ITEM 102A)		8 94	1
(REPL BY ITEM 94A)		5 85	1
CD54HC20F (REPL BY ITEM 85A)		6 94	1
(REPL BY ITEM 94A)		5 - 90A	4
CD54HC244F (REPL ITEM 90)		6 -103A	5
(REPL ITEM 103)		8 - 95A	6
(REPL ITEM 95)		5 91	1
CD54HC245J (REPL BY ITEM 91A)		6 104	12
(REPL BY ITEM 104A)		5 92	1
CD54HC273F		10 114	5

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Radio Test Interface Unit / Part No. 7511400

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
CD54HC30F		5 86	1
(REPL BY ITEM 86A)		7 97	1
(REPL BY ITEM 97A)		8 88	1
(REPL BY ITEM 88A)		10 110	1
(REPL BY ITEM 110A)		5 87	1
CD54HC32F		6 96	6
(REPL BY ITEM 87A)		7 98	2
(REPL BY ITEM 96A)		8 89	4
(REPL BY ITEM 98A)		10 111	3
(REPL BY ITEM 89A)		5 93	1
(REPL BY ITEM 111A)		6 105	10
CD54HC374F		7 112	2
(REPL BY ITEM 93A)		8 96	2
(REPL BY ITEM 105A)		10 115	1
(REPL BY ITEM 112A)		5 - 95A	1
(REPL BY ITEM 96A)		8 - 99A	1
CD54HC393F		6 106	2
(REPL BY ITEM 115A)		8 97	1
CD54HC4040F		6 97	1
(REPL ITEM 95)		8 90	3
(REPL ITEM 99)		6 98	2
CD54HC573F		7 99	1
(REPL BY ITEM 106A)		7 79	10
CD54HC688F		10 - 73A	4
(REPL BY ITEM 97A)			
CD54HC74F			
(REPL BY ITEM 97A)			
(REPL BY ITEM 90A)			
CD54HC86F			
(REPL BY ITEM 98A)			
(REPL BY ITEM 99A)			
CMF55-1690T2PMB			
(REPL BY ITEM 79A)			
CMF5510RODT1			
(REPL ITEM 73)			

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
CMF551001DT1 (REPL ITEM 79)		10 - 79A	2
CMF551002DT1 (REPL ITEM 86)		10 - 86A	9
CMF551003DT1 (REPL ITEM 89)		10 - 89A	1
CMF551004DT1 (REPL ITEM 70)		6 - 70A	2
(REPL ITEM 78)		7 - 78A	3
(REPL ITEM 65)		8 - 65A	2
CMF551023BT1 (REPL ITEM 90)		10 - 90A	2
CMF551330DT1 (REPL ITEM 66)		6 - 66A	1
CMF551430DT1 (REPL ITEM 67)		6 - 67A	1
CMF551500DT1 (REPL ITEM 76)		10 - 76A	1
CMF552001DT1 (REPL ITEM 81)		10 - 81A	1
CMF552050DT1 (REPL ITEM 68)		6 - 68A	1
CMF552052DT1 (REPL ITEM 88)		10 - 88A	3
CMF552492DT1 (REPL ITEM 134)		10 -134A	1
CMF5530R1DT1 (REPL ITEM 65)		6 - 65A	6
CMF553013DT1 (REPL ITEM 77)		7 - 77A	1
CMF5531R6DT1 (REPL ITEM 74)		10 - 74A	6
CMF5536R5DT1 (REPL ITEM 63)		8 - 63A	2
CMF554022DT1 (REPL ITEM 74)		7 - 74A	29
CMF554750DT1 (REPL ITEM 141)		10 -141A	18
CMF554991DT1 (REPL ITEM 130)		10 -130A	2
CMF554992BT1 (REPL ITEM 75)		7 - 75A	1
CMF555111DT1 (REPL ITEM 131)		10 -131A	1
CMF555621DT1 (REPL ITEM 82)		10 - 82A	2

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
CMF555622DT1 (REPL ITEM 76)		7 - 76A	1
CMF556040DT1 (REPL ITEM 142)		10 -142A	7
CMF556190DT1 (REPL ITEM 72)		7 - 72A	2
CMF556340DT1 (REPL ITEM 64)		8 - 64A	1
CMF556341DT1 (REPL ITEM 132)		10 -132A	2
CMF556491DT1 (REPL ITEM 138)		10 -138A	1
CMF556981DT1 (REPL ITEM 143)		10 -143A	1
CMF557500DT1 (REPL ITEM 78)		10 - 78A	5
CMF559311DT1 (REPL ITEM 144)		10 -144A	2
CP82C52		5 103	1
		6 113	1
CP82C54-10 (REPL ITEM 105)		5 -105A	1
CP82C59A		5 100	1
CS20108D1X103M5 (REPL ITEM 118)		10 -118A	1
CW15C103K		5 57	33
		6 55	65
		7 113	9
		8 57	44
		10 61	20
		13 7	3
CW15C120K		13 9	1
CW20C104K		5 58	4
		6 56	5
		7 61	78
		8 58	10
		10 62	36
CW20C473K		5 60	1
CW40C474K		6 57	6
		10 63	5
		13 8	1
CW40C564K		10 64	2
C12B		4 12	1
DA628-42T		13 3	1
DG508BK (REPL BY ITEM 106A)		10 106	4
DLPOLKIT		1 12	1
DL1-156RW4		2 10	1

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
DS26LS31MJ883		6 - 89A	1
(REPL ITEM 89)		8 - 85A	3
(REPL ITEM 85)			
DS3487N		10 125	1
DS628-01TT		5 2	1
		6 2	1
		8 2	1
		13 2	1
		18 28	3
D136-07			
(REPL BY ITEM 28A)			
D701-00		18 - 28A	3
(REPL ITEM 28)			
FRJ55		6 71	1
		10 153	4
F4NY250BK128		4 8	2
(REPL BY ITEM 8A)			
HA9PKG4		2 2	2
		5 3	2
		6 3	2
		7 2	2
		8 3	2
		10 2	2
HCB75WA		12 1A	1
HD1-6409-883		10 -102A	1
(REPL ITEM 102)			
HD1-6409-9		10 102	1
(REPL BY ITEM 102A)			
HI1-0508-2		10 -106A	4
(REPL ITEM 106)			
HI3-0507-5		10 -119A	2
(REPL ITEM 119)			
HI3-507-5		10 119	2
(REPL BY ITEM 119A)			
HLMP5030		5 63	6
IM26-8UPMF		6 - 61A	6
(REPL ITEM 61)			
IP80C88-2		5 104	1
JAN1N4148-1		5 61	1
		6 58	24
		7 62	62
		8 59	10
		10 65	5

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
JAN2N2222A		5 67	2
(REPL BY ITEM 67A)		6 63	3
(REPL BY ITEM 63A)		7 68	1
(REPL BY ITEM 68A)		8 62	2
(REPL BY ITEM 62A)			
KB500B1-8		4 2	1
KC79-105		4 19	2
K10P11D15-24		9 44	1
K100J15COGFVAWA		8 52	2
K101J15COGFVAWA		3 3	53
		7 54	18
		8 53	36
		10 56	7
K102J20COGFVBWA		6 52	2
		7 55	3
		8 54	2
K103J30COGFVCWA		7 126	1
K121J15COGFVAWA		10 139	2
K180J15COGFVAWA		7 56	1
K181J15COGFVAWA		8 55	10
K222J20COGFVBWA		7 57	1
K271J15COGFVAWA		6 53	1
K330J15COGFVAWA		7 58	4
		10 57	2
K392J30COGFVCWA		7 59	1
K470J15COGFVAWA		5 54	2
(REPL BY ITEM 54A)			
K471J15COGFVAWA		5 55	1
K472J30COGFVCWA		10 58	9
K561J15COGFVAWA		7 60	1
K680J15COGFVAWA		5 56	2
		6 54	12
		8 56	2
		10 59	2
		7 93	1
LM111			
(REPL BY ITEM 93A)			
LM111JG		7 - 93A	1
(REPL ITEM 93)			
LM139D		8 83	2
LM161J		10 123	1
(REPL BY ITEM 123A)			
LT1013CN8		7 104	20
MC145505P		10 127	2
(REPL BY ITEM 127A)			
MC1488L		5 79	1
MC1489L		5 99	1

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
MC1500G5 (REPL BY ITEM 106A)		7 106	1
MC54C4040J (REPL BY ITEM 95A)		5 95	1
(REPL BY ITEM 99A)		8 99	1
MC54HC4051J (REPL BY ITEM 102A)		7 102	4
MC54HC4053J (REPL BY ITEM 108A)		6 108	1
(REPL BY ITEM 103A)		7 103	9
MC74HC4051AN (REPL ITEM 102)		7 -102A	4
MC7905CT		10 120	1
ML124-0-100PMB (REPL BY ITEM 150A)		10 150	1
ML124-1000PMB (REPL BY ITEM 146A)		10 146	1
ML124-10000PMB (REPL BY ITEM 148A)		10 148	7
ML124-49300PMB (REPL BY ITEM 151A)		10 151	2
ML124-49900PMB (REPL BY ITEM 149A)		10 149	2
ML124-8250PMB (REPL BY ITEM 81A)		7 81	10
ML124-9090PMB (REPL BY ITEM 147A)		10 147	1
MM54HCT138J		8 100	1
MM54HCT245J (REPL BY ITEM 97A)		5 97	1
(REPL BY ITEM 4A)		13 4	1
MM54HCT373J		5 98	2
		8 102	1
MM54HCT374J		8 103	2
MM54HC244J (REPL BY ITEM 90A)		5 90	4
(REPL BY ITEM 103A)		6 103	5
(REPL BY ITEM 95A)		8 95	6
MPQ2222A		8 107	3
MSP08A011001F (REPL ITEM 8)		3 - 8A	6
MSP08A011002F (REPL ITEM 10)		3 - 10A	2

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
MSP08A011003F		5 - 81A	1
(REPL ITEM 81)		6 - 81A	1
(REPL ITEM 81)		10 -152A	2
(REPL ITEM 152)			
MSP08A013301F		3 - 9A	8
(REPL ITEM 9)			
MSP08A013302F		6 - 85A	3
(REPL ITEM 85)			
MSP08A014701F		6 - 83A	1
(REPL ITEM 83)			
MSP08A015600F		5 - 80A	1
(REPL ITEM 80)			
MSP08A016802F		6 - 86A	3
(REPL ITEM 86)			
MSP08A031103F		6 - 88A	6
(REPL ITEM 88)			
MSP08A032200F		6 - 84A	3
(REPL ITEM 84)		8 - 81A	4
(REPL ITEM 81)			
MSP08A034700F		5 - 82A	2
(REPL ITEM 82)			
MSP08A035101F		8 - 82A	3
(REPL ITEM 82)			
MSP10A014702F		13 - 6A	1
(REPL ITEM 6)			
MS15795-803		1 7	4
		2 7	8
		4 5	8
		5 6	1
		7 8	6
		9 26	8
		10 6	2
MS15795-805		1 4	9
		9 27	4
MS17821-2		1 22	1
MS21266-2N		9 30	1
MS21266-3N		12 8	2
MS24622-17		9 15	5
		17 20	2
		19 20	6
		22 20	2
MS24622-19		18 21	2
		20 21	2
		21 21	2
MS24622-31		9 12	8

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
MS35338-135		1 8	4
(REPL BY ITEM 8A)		2 4	8
(REPL BY ITEM 4A)		4 6	8
(REPL BY ITEM 6A)		5 5	1
(REPL BY ITEM 5A)		7 9	3
(REPL BY ITEM 9A)		9 23	8
(REPL BY ITEM 23A)		10 5	2
(REPL BY ITEM 5A)		1 3	9
MS35338-136		9 24	14
(REPL BY ITEM 3A)		9 20	32
(REPL BY ITEM 24A)		12 6	1
MS35338-137		4 4	8
(REPL BY ITEM 20A)		5 7	1
(REPL BY ITEM 6A)		7 10	3
MS35649-244		10 7	2
		9 19	16
		12 5	1
MS35649-284		1 6	4
MS51957-13		2 5	4
(REPL BY ITEM 6A)		5 4	1
(REPL BY ITEM 5A)		10 4	2
MS51957-14		2 6	4
(REPL BY ITEM 4A)		9 28	4
(REPL BY ITEM 4A)		9 37	2
MS51957-14B		1 2	9
MS51957-15		9 29	10
(REPL BY ITEM 28A)		9 16	20
MS51957-17		12 3	1
(REPL BY ITEM 37A)		9 34	4
MS51957-26		9 13	4
MS51957-28		9 18	8
MS51957-45			
MS51957-48			
MS51959-13			
MS51959-44			
MS51959-45			

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
MS75088-14 (REPL BY ITEM 66A)		10 66	4
MS75089-13 (REPL BY ITEM 67A)		10 67	2
MS77068-3		23 30	1
MUPH7000-40110		3 6	7
M39003-01-2254		5 53	1
M39003-01-2261 (REPL ITEM 53)		7 - 53A	1
M39003-01-2263		10 54	1
M39003-01-2274		10 53	8
M39003-01-2289		5 51	4
		6 64	2
		8 109	3
		10 136	1
M39003-01-2295 (REPL BY ITEM 53A)		7 53	1
M39003-01-2301		5 52	1
		6 51	1
		8 51	1
M39003-01-2306		7 52	2
		10 52	2
M39003-01-2374		10 51	2
M80C154HRS		8 106	1
NAS1745-2		15 26	2
		18 26	2
		23 26	1
NAS1745-3		14 25	10
		15 25	3
		19 25	4
NAS707RC2 (REPL ITEM 9)		2 - 9A	4
(REPL ITEM 4)		3 - 4A	5
NA4-1-000PMD (REPL BY ITEM 70A)		6 70	2
(REPL BY ITEM 78A)		7 78	3
(REPL BY ITEM 65A)		8 65	2
NA4-10PMD (REPL BY ITEM 73A)		10 73	4
NA4-1000PMD (REPL BY ITEM 79A)		10 79	2
NA4-10000PMD (REPL BY ITEM 86A)		10 86	9
NA4-100000PMD (REPL BY ITEM 89A)		10 89	1

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
NA4-102000PMD (REPL BY ITEM 90A)		10 90	2
NA4-133PMD (REPL BY ITEM 66A)		6 66	1
NA4-143PMD (REPL BY ITEM 67A)		6 67	1
NA4-150PMD (REPL BY ITEM 76A)		10 76	1
NA4-2000PMD (REPL BY ITEM 81A)		10 81	1
NA4-205PMD (REPL BY ITEM 68A)		6 68	1
NA4-20500PMD (REPL BY ITEM 88A)		10 88	3
NA4-24900PMD (REPL BY ITEM 134A)		10 134	1
NA4-30-1PMD (REPL BY ITEM 65A)		6 65	6
NA4-301000PMD (REPL BY ITEM 77A)		7 77	1
NA4-31-6PMD (REPL BY ITEM 74A)		10 74	6
NA4-36-5PMD (REPL BY ITEM 63A)		8 63	2
NA4-40200PMD (REPL BY ITEM 74A)		7 74	29
NA4-475PMD (REPL BY ITEM 141A)		10 141	18
NA4-4990PMD (REPL BY ITEM 130A)		10 130	2
NA4-49900PMD (REPL BY ITEM 75A)		7 75	1
NA4-5110PMD (REPL BY ITEM 131A)		10 131	1
NA4-5620PMD (REPL BY ITEM 82A)		10 82	2
NA4-56200PMD (REPL BY ITEM 76A)		7 76	1
NA4-604PMD (REPL BY ITEM 142A)		10 142	7
NA4-619PMD (REPL BY ITEM 72A)		7 72	2
NA4-634PMD (REPL BY ITEM 64A)		8 64	1
NA4-6340PMD (REPL BY ITEM 132A)		10 132	2
NA4-6490PMD (REPL BY ITEM 138A)		10 138	1

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
NA4-6980PMD (REPL BY ITEM 143A)		10 143	1
NA4-750PMD (REPL BY ITEM 78A)		10 78	5
NA4-9310PMD (REPL BY ITEM 144A)		10 144	2
N08SNYLFLWSHR		9 17	8
PW7232 (REPL ITEM 128)		10 -128A	1
P82C54-2 (REPL BY ITEM 105A)		5 105	1
P8344AH (REPL BY ITEM 110A)		6 110	1
RCR07G274JR (REPL BY ITEM 91A)		10 91	1
RCV31-4242-0		3 5	7
RDS21KG (REPL ITEM 71)		5 - 71A	1
(REPL ITEM 72)		6 - 72A	3
RDS2100GT52 (REPL ITEM 66)		8 - 66A	4
RDS2101GT52 (REPL ITEM 70)		5 - 70A	1
(REPL ITEM 83)		7 - 83A	4
(REPL ITEM 67)		8 - 67A	1
RDS2471G (REPL ITEM 112)		8 -112A	12
RD2S1-2KG		10 92	1
RD2S1-5KG		8 113	12
RD2S1KG (REPL BY ITEM 71A)		10 156	2
(REPL BY ITEM 72A)		5 71	1
RD2S10G (REPL BY ITEM 66A)		6 72	3
RD2S10KG		8 66	4
		5 72	4
		6 73	2
		7 84	2
		8 68	20
RD2S100KG		6 74	2
		8 69	11
RD2S15KG		5 73	1
RD2S16KG		6 118	2
RD2S2-2KG		5 75	1
		8 75	6

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
RD2S2KG		6 75	6
		7 86	3
RD2S20KG		8 72	7
RD2S200G		7 85	1
		8 71	1
RD2S200KG		5 74	1
		8 73	1
RD2S22KG		6 76	9
		7 87	6
RD2S220G		8 74	18
RD2S27KG		10 95	1
RD2S3-3KG		6 93	2
		8 70	6
		10 135	1
RD2S3KG		8 76	2
RD2S33KG		6 77	3
		7 88	1
RD2S4-7KG		5 76	4
		6 95	2
		8 77	3
		10 97	3
RD2S430G		6 78	1
RD2S47G		7 123	5
RD2S47KG		7 91	5
		8 78	6
RD2S470G		8 112	12
(REPL BY ITEM 112A)			
RD2S620G		6 79	2
RD2S68KG		6 80	3
RD2S91G		5 77	1
REF02AJ		7 -106A	1
(REPL ITEM 106)			
RL07S151G		10 145	4
(REPL BY ITEM 145A)			
RL07S471G		10 96	6
(REPL BY ITEM 96A)			
RN55C1001B		10 -146A	1
(REPL ITEM 146)			
RN55C1002B		10 -148A	7
(REPL ITEM 148)			
RN55C1003B		10 -150A	1
(REPL ITEM 150)			
RN55C1691B		7 - 79A	10
(REPL ITEM 79)			
RN55C4932B		10 -151A	2
(REPL ITEM 151)			
RN55C4992B		10 -149A	2
(REPL ITEM 149)			

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
RN55C8251B (REPL ITEM 81)		7 - 81A	10
RN55C9091B (REPL ITEM 147)		10 -147A	1
RPE110C0G470J50 (REPL ITEM 54)		5 - 54A	2
RPE113X7R105K50		5 59	4
		6 114	3
		7 127	1
		8 110	4
RV6NAYSD503A		4 10	1
RW67V201		7 116	1
RW67V270 (REPL BY ITEM 108A)		7 108	3
RW69V1R8		6 119	3
RW69V101		5 69	1
RW69V112 (REPL BY ITEM 109A)		7 109	6
RW69V121		7 117	2
RW69V122 (REPL ITEM 109)		7 -109A	6
RW69V132		18 23	1
RW69V181		7 118	2
RW69V270		10 140	1
RW69V330		10 72	3
RW69V470		5 108	1
RW69V621		18 22	1
RXE050		7 124	5
SE26XF02		12 2	2
SFSW6C9DL07GY		1 30	4
SNJ54HCT245J (REPL ITEM 97)		5 - 97A	1
		13 - 4A	1
(REPL ITEM 4)			
SNJ54HC00J (REPL ITEM 107)		6 -107A	2
		8 - 98A	1
(REPL ITEM 98)			
SNJ54HC374 (REPL ITEM 93)		5 - 93A	1
		6 -105A	10
(REPL ITEM 105)			
		7 -112A	2
(REPL ITEM 112)			
		8 - 96A	2
(REPL ITEM 96)			
SN54HCU04J (REPL ITEM 94)		5 - 94A	1

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
SN54HC04J		6 - 92A	2
(REPL ITEM 92)		7 - 95A	1
(REPL ITEM 95)		8 - 87A	3
(REPL ITEM 87)		10 -108A	2
(REPL ITEM 108)		13 - 5A	1
(REPL ITEM 5)		10 -109A	1
SN54HC08J		6 - 99A	1
(REPL ITEM 109)		5 - 89A	3
SN54HC125J		6 -100A	4
(REPL ITEM 99)		7 -100A	1
SN54HC138J		8 - 91A	2
(REPL ITEM 89)		10 -112A	1
(REPL ITEM 100)		5 - 84A	1
(REPL ITEM 100)		7 - 96A	1
(REPL ITEM 91)		10 -113A	1
(REPL ITEM 112)		8 - 93A	4
SN54HC14J		6 -101A	6
(REPL ITEM 84)		5 - 85A	1
(REPL ITEM 96)		6 - 94A	1
SN54HC151J		5 - 91A	1
(REPL ITEM 113)		6 -104A	12
SN54HC164J			
(REPL ITEM 93)			
SN54HC165J			
(REPL ITEM 101)			
SN54HC20J			
(REPL ITEM 85)			
(REPL ITEM 94)			
SN54HC245J			
(REPL ITEM 91)			
(REPL ITEM 104)			

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
SN54HC32J		5 - 87A	1
(REPL ITEM 87)		6 - 96A	6
(REPL ITEM 96)		7 - 98A	2
(REPL ITEM 98)		8 - 89A	4
(REPL ITEM 89)		10 -111A	3
(REPL ITEM 111)		10 -115A	1
SN54HC393J		8 - 97A	1
(REPL ITEM 115)		6 - 97A	1
SN54HC688J		8 - 90A	3
(REPL ITEM 97)		6 - 98A	2
SN54HC74J		7 - 99A	1
(REPL ITEM 97)		7 51	29
(REPL ITEM 90)		5 102	2
SN54HC86J		6 112	2
(REPL ITEM 98)		8 105	1
(REPL ITEM 99)		5 68	1
SP7-505-9-5		8 86	1
SRM20256C12		10 107	1
(REPL BY ITEM 102A)		10 122	1
(REPL BY ITEM 112A)		10 55	4
(REPL BY ITEM 105A)		10 154	1
TIP121		6 91	3
TL084MJ		5 -102A	2
TP3040J1		6 -112A	2
(REPL BY ITEM 122A)		8 -105A	1
T111C196K020AS		9 8	1
UA7805UC		10 155	5
(REPL BY ITEM 154A)			
ULN2803A			
UPD43256BCZ70L			
(REPL ITEM 102)			
(REPL ITEM 112)			
(REPL ITEM 105)			
V802-12SS05Q			
OP470FY			
(REPL BY ITEM 155A)			

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
008-0096-14		5 - 78A	2
(REPL ITEM 78)		6 - 4A	1
(REPL ITEM 4)		8 - 4A	1
(REPL ITEM 4)		10 -137A	1
(REPL ITEM 137)			
0164-5 SEE MS35338-135		1 - 8A	4
0164-5		2 - 4A	8
(REPL ITEM 8)		4 - 6A	8
(REPL ITEM 4)		5 - 5A	1
(REPL ITEM 6)		7 - 9A	3
(REPL ITEM 5)		9 - 23A	8
(REPL ITEM 9)		10 - 5A	2
(REPL ITEM 23)			
(REPL ITEM 5)		1 - 3A	9
0164-7 SEE MS35338-136		9 - 24A	14
0164-7		9 - 20A	32
(REPL ITEM 3)		12 - 6A	1
(REPL ITEM 24)			
0164-8 SEE MS35338-137			
0164-8			
(REPL ITEM 20)			
(REPL ITEM 6)			
0424-14 SEE MS35649-284		6 -111A	1
0424-8 SEE MS35649-244		10 -124A	1
06805-062			
(REPL ITEM 111)			
(REPL ITEM 124)			
0770-5 SEE MS15795-803			
0770-7 SEE MS15795-805			
0919-13 SEE MS51957-13		1 - 6A	4
0919-13		2 - 5A	4
(REPL ITEM 6)			
(REPL ITEM 5)			
0919-14 SEE MS51957-14			

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
0919-14		5 - 4A	1
(REPL ITEM 4)		10 - 4A	2
(REPL ITEM 4)			
0919-15	SEE MS51957-15		
0919-15		9 - 28A	4
(REPL ITEM 28)			
0919-17	SEE MS51957-17		
0919-17		9 - 37A	2
(REPL ITEM 37)			
0919-26	SEE MS51957-26		
0919-28	SEE MS51957-28		
0919-45	SEE MS51957-45		
0919-48	SEE MS51957-48		
092-12	SEE 4026		
0920-13	SEE MS51959-13		
0920-44	SEE MS51959-44		
0920-45	SEE MS51959-45		
093-15	SEE MS77068-3		
0934-112	SEE 9224-115		
0934-112	SEE 0934-112		
0934-112		7 - 6A	3
(REPL ITEM 6)			
0934-117	SEE 9234N115		
1-480702-0		17 6	1
		22 6	1
1-480703-0		19 9	3
1-480704-0		21 7	1
1-480705-0		19 10	1
1-480706-0		19 8	2
1-480707-0		18 29	1
		20 29	1
1-5KE18A		7 125	2
		12 11	2
1-5KE47A		23 31	1
1-5KE6-8		7 121	5
(REPL BY ITEM 121A)			
1-640415-1		18 4	1
		20 4	1
1-640721-0		21 16	2
1-640722-0		18 17	2
		20 17	2
1N3595		5 - 62A	1
(REPL ITEM 62)			
(REPL ITEM 24)		18 - 24A	1
1N5819		7 122	10
1N5821		7 120	2

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
1N6267ARL4 (REPL ITEM 121)		7 -121A	5
(POST SB 7511400-34-1)		12 10	1
1ZUHE		6 82	3
		10 100	3
100184 (REPL BY ITEM 111A)		6 111	1
(REPL BY ITEM 124A)		10 124	1
1007064		2 13	2
1018530-5 SEE RV6NAYSD503A			
1025-034		6 60	2
105-2201-205		11 2	96
105-2202-205		11 3	24
105-2203-205		11 4	118
105-2204-205		11 5	14
105-2207-205		11 6	8
105-2210-205		11 7	16
11633-2		9 11	14
12A		4 11	1
1641-123K (REPL ITEM 66)		10 - 66A	4
1641-154 (REPL ITEM 67)		10 - 67A	2
1711017-2 SEE MS17821-2			
17253		9 6	1
17600 (REPL ITEM 5)		1 - 5A	1
2N2907A		7 67	1
		8 61	2
		10 69	1
2N5320 (REPL BY ITEM 110A)		7 110	1
20C297		9 41	1
2057-440SS20 (REPL ITEM 33)		9 - 33A	4
245511-2 SEE 5673B			
245511-2 SEE NAS707RC2			
25A7 (REPL BY ITEM 128A)		10 128	1
2500169-200 SEE NA4-10PMD			
2500169-200 SEE CMF5510R0DT1			
2500169-246 SEE NA4-30-1PMD			
2500169-246 SEE CMF5530R1DT1			
2500169-248 SEE NA4-31-6PMD			
2500169-248 SEE CMF5531R6DT1			
2500169-254 SEE NA4-36-5PMD			

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
2500169-254	SEE CMF5536R5DT1		
2500169-308	SEE NA4-133PMD		
2500169-308	SEE CMF551330DT1		
2500169-311	SEE NA4-143PMD		
2500169-311	SEE CMF551430DT1		
2500169-313	SEE NA4-150PMD		
2500169-313	SEE CMF551500DT1		
2500169-326	SEE NA4-205PMD		
2500169-326	SEE CMF552050DT1		
2500169-361	SEE NA4-475PMD		
2500169-361	SEE CMF554750DT1		
2500169-371	SEE NA4-604PMD		
2500169-371	SEE CMF556040DT1		
2500169-372	SEE NA4-619PMD		
2500169-372	SEE CMF556190DT1		
2500169-373	SEE NA4-634PMD		
2500169-373	SEE CMF556340DT1		
2500169-380	SEE NA4-750PMD		
2500169-380	SEE CMF557500DT1		
2500169-392	SEE NA4-1000PMD		
2500169-392	SEE CMF551001DT1		
2500169-421	SEE NA4-2000PMD		
2500169-421	SEE CMF552001DT1		
2500169-459	SEE NA4-4990PMD		
2500169-459	SEE CMF554991DT1		
2500169-460	SEE NA4-5110PMD		
2500169-460	SEE CMF555111DT1		
2500169-464	SEE NA4-5620PMD		
2500169-464	SEE CMF555621DT1		
2500169-469	SEE NA4-6340PMD		
2500169-469	SEE CMF556341DT1		
2500169-470	SEE NA4-6490PMD		
2500169-470	SEE CMF556491DT1		
2500169-473	SEE NA4-6980PMD		
2500169-473	SEE CMF556981DT1		
2500169-485	SEE NA4-9310PMD		
2500169-485	SEE CMF559311DT1		
2500169-488	SEE NA4-10000PMD		
2500169-488	SEE CMF551002DT1		
2500169-518	SEE NA4-20500PMD		
2500169-518	SEE CMF552052DT1		
2500169-526	SEE NA4-24900PMD		
2500169-526	SEE CMF552492DT1		
2500169-546	SEE NA4-40200PMD		
2500169-546	SEE CMF554022DT1		
2500169-555	SEE NA4-49900PMD		
2500169-555	SEE CMF554992BT1		
2500169-560	SEE NA4-56200PMD		
2500169-560	SEE CMF555622DT1		

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
2500169-584	SEE NA4-100000PMD		
2500169-584	SEE CMF551003DT1		
2500169-585	SEE NA4-102000PMD		
2500169-585	SEE CMF551023BT1		
2500169-630	SEE NA4-301000PMD		
2500169-630	SEE CMF553013DT1		
2500169-680	SEE NA4-1-000PMD		
2500169-680	SEE CMF551004DT1		
2500652-44	SEE SP7-505-9-5		
2500932-107	SEE RCR07G274JR		
2500932-107 (REPL ITEM 91)		10 - 91A	1
2501414	SEE D136-07		
2501414	SEE D701-00		
2503203-7		7 7	3
2503203-8		9 22	4
2503220-13	SEE M39003-01-2374		
2503220-19	SEE M39003-01-2306		
2503220-31	SEE M39003-01-2289		
2503220-38	SEE M39003-01-2301		
2503220-44	SEE M39003-01-2274		
2503220-48	SEE M39003-01-2254		
2503220-53	SEE M39003-01-2295		
2503220-53	SEE M39003-01-2261		
2503220-54	SEE M39003-01-2263		
2503420-53	SEE T111C196K020AS		
2503517-101	SEE JAN1N4148-1		
2503594-7	SEE N08SNYLFLWSHR		
2503632-1	SEE SE26XF02		
2503646-241	SEE SFSW6C9DL07GY		
2503668-1	SEE NAS1745-2		
2503668-2	SEE NAS1745-3		
2503896-34	SEE 1025-034		
2504364-29	SEE RL07S151G		
2504364-29 (REPL ITEM 145)		10 -145A	4
2504364-41	SEE RL07S471G		
2504364-41 (REPL ITEM 96)		10 - 96A	6
2504410-354	SEE MS51957-14B		
2504649-2	SEE 2N2907A		
2504709-26	SEE MS75088-14		
2504709-26	SEE 1641-123K		
2504709-39	SEE MS75089-13		
2504709-39	SEE 1641-154		
2504875-2	SEE 1N3595		

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
2504875-2		5 62	1
(REPL BY ITEM 62A)		18 24	1
(REPL BY ITEM 24A)			
2578758-5	SEE 4074		
2579174-13	SEE F4NY250BK128		
2579174-13	SEE 2579174-13		
2579174-13		4 - 8A	2
(REPL ITEM 8)			
2643000201		2 - 14A	156
(REPL ITEM 14)		3 - 11A	280
(REPL ITEM 11)			
26430002301		2 14	156
(REPL BY ITEM 14A)		3 11	280
(REPL BY ITEM 11A)			
27E487		9 40	1
3M929665-08-01		5 - 66A	1
(REPL ITEM 66)			
312010		9 10	1
337457-59	SEE RW67V270		
337457-59		7 -108A	3
(REPL ITEM 108)			
337457-80	SEE RW67V201		
337708-100	SEE RW69V132		
337708-31	SEE RW69V1R8		
337708-59	SEE RW69V270		
337708-61	SEE RW69V330		
337708-65	SEE RW69V470		
337708-73	SEE RW69V101		
337708-75	SEE RW69V121		
337708-79	SEE RW69V181		
337708-92	SEE RW69V621		
337708-99	SEE RW69V122		
338026-17	SEE MS24622-17		
338026-19	SEE MS24622-19		
338026-31	SEE MS24622-31		
342001L		9 9	1
350218-1		17 1A	4
		19 1A	16
		21 1A	6
		22 1A	4
350536-1		18 2	8
		19 2	18
		20 2	8

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
350547-1		17 - 1B	4
		19 - 1B	16
		21 - 1B	6
		22 - 1B	4
350550-1		18 - 2A	8
		19 - 2A	18
		20 - 2A	8
3718362-851	SEE HD1-6409-9		
3718362-851	SEE HD1-6409-883		
3718363-354	SEE UA7805UC		
3718363-354		10 -154A	1
(REPL ITEM 154)			
3718468-1	SEE 342001L		
3718468-112	SEE 312010		
3718661-103	SEE DS628-01TT		
3719010-35	SEE 65000-056		
3719206-1	SEE 76PSB04S		
3719221-1	SEE HA9PKG4		
4002240-202	SEE JAN2N2222A		
4002240-202		5 - 67A	2
(REPL ITEM 67)			
		6 - 63A	3
(REPL ITEM 63)			
		7 - 68A	1
(REPL ITEM 68)			
		8 - 62A	2
(REPL ITEM 62)			
4004090-392	SEE ML124-1000PMB		
4004090-392	SEE RN55C1001B		
4004090-414	SEE CMF55-1690T2PMB		
4004090-414	SEE RN55C1691B		
4004090-480	SEE ML124-8250PMB		
4004090-480	SEE RN55C8251B		
4004090-484	SEE ML124-9090PMB		
4004090-484	SEE RN55C9091B		
4004090-488	SEE ML124-10000PMB		
4004090-488	SEE RN55C1002B		
4004090-555	SEE ML124-49900PMB		
4004090-555	SEE RN55C4992B		
4004090-584	SEE ML124-0-100PMB		
4004090-584	SEE RN55C1003B		
4004090-855	SEE ML124-49300PMB		
4004090-855	SEE RN55C4932B		
4007038-1	SEE 1-5KE6-8		
4007038-1	SEE 1N6267ARL4		
4007038-18	SEE 1-5KE18A		
4007038-47	SEE 1-5KE47A		
4009281-211	SEE LM111		
4009281-211	SEE LM111JG		

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
4015007-5	SEE DLPOLKIT		
4017689-1	SEE 4600X		
4021388-2	SEE 2N5320		
4021388-2		7 -110A	1
(REPL ITEM 110)			
4026		4 7	2
4039510-901		8 79	1
4039511-901		8 80	1
4042519-288	SEE MC1488L		
4046861	SEE DL1-156RW4		
4074		9 36	4
4446-2F		6 61	6
(REPL BY ITEM 61A)			
4600X		9 3	1
4608X1-102		3 8	6
(REPL BY ITEM 8A)			
4608X1-104		5 81	1
(REPL BY ITEM 81A)			
(REPL BY ITEM 81A)		6 81	1
(REPL BY ITEM 81A)		10 152	2
(REPL BY ITEM 152A)			
4608X1-332		3 9	8
(REPL BY ITEM 9A)			
4608X1-333		6 85	3
(REPL BY ITEM 85A)			
4608X1-472		6 83	1
(REPL BY ITEM 83A)			
4608X1-561		5 80	1
(REPL BY ITEM 80A)			
4608X1-683		6 86	3
(REPL BY ITEM 86A)			
4608X101-103		3 10	2
(REPL BY ITEM 10A)			
4608X102-103		5 83	2
(REPL BY ITEM 83A)			
(REPL BY ITEM 87A)		6 87	2
4608X102-114		6 88	6
(REPL BY ITEM 88A)			
4608X102-221		6 84	3
(REPL BY ITEM 84A)			
(REPL BY ITEM 81A)		8 81	4
4608X102-471		5 82	2
(REPL BY ITEM 82A)			
4608X102-512		8 82	3
(REPL BY ITEM 82A)			

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
4610X101-473 (REPL BY ITEM 6A)		13 6	1
470C7X7R103M5DG (REPL BY ITEM 118A)		10 118	1
48046-000 (REPL ITEM 3)		14 - 3A	38
(REPL ITEM 3)		15 - 3A	11
(REPL ITEM 3)		16 - 3A	2
(REPL ITEM 3)		19 - 3A	9
5502		9 4	1
5505		20 14	1
5673B (REPL BY ITEM 9A)		2 9	4
(REPL BY ITEM 4A)		3 4	5
5962-8775401EA (REPL ITEM 108)		6 -108A	1
(REPL ITEM 103)		7 -103A	9
641775-1		19 15	6
641777-1		22 15	2
		17 15	2
		18 18	2
		19 18	6
		20 18	2
65000-056		2 12	2
65039-35		16 27	1
65043-024		14 13	2
65043-031		15 12	1
65043-035		19 11	3
65307-001		14 5	2
		15 5	1
		19 5	3
68021-120		2 11	1
		11 8	2
68716-170 (REPL ITEM 7)		3 - 7A	4
694-3R100KA		7 94	46
694-3R50KA		7 111	4
6950-48		7 115	4
6950-55		7 66	2
7000036-1		1 9	1
7000037-164		4 9	1
7000077-4 SEE 26430002301			
7000077-4 SEE 2643000201			
7000102-219 SEE 4608X102-221			

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
7000102-219	SEE MSP08A032200F		
7000102-223	SEE 4608X102-471		
7000102-223	SEE MSP08A034700F		
7000102-237	SEE 4608X102-512		
7000102-237	SEE MSP08A035101F		
7000102-240	SEE 4608X102-103		
7000102-240 (REPL ITEM 83)		5 - 83A	2
(REPL ITEM 87)		6 - 87A	2
7000102-253	SEE 4608X102-114		
7000102-253	SEE MSP08A031103F		
7000102-316	SEE 4610X101-473		
7000102-316	SEE MSP10A014702F		
7000102-68	SEE 4608X1-561		
7000102-68	SEE MSP08A015600F		
7000102-71	SEE 4608X1-102		
7000102-71	SEE MSP08A011001F		
7000102-78	SEE 4608X1-332		
7000102-78	SEE MSP08A013301F		
7000102-80	SEE 4608X1-472		
7000102-80	SEE MSP08A014701F		
7000102-84	SEE 4608X101-103		
7000102-84	SEE MSP08A011002F		
7000102-90	SEE 4608X1-333		
7000102-90	SEE MSP08A013302F		
7000102-94	SEE 4608X1-683		
7000102-94	SEE MSP08A016802F		
7000102-96	SEE 4608X1-104		
7000102-96	SEE MSP08A011003F		
7000780-139	SEE LM139D		
7000822	SEE DG508BK		
7000822-125	SEE HI1-0508-2		
7002113-45	SEE 11633-2		
7002559-102	SEE 694-3R100KA		
7002559-94	SEE 694-3R50KA		
7002730-3	SEE 76804-27		
7002730-3	SEE 48046-000		
7002851-12	SEE 65043-031		
7002851-26	SEE 65043-024		
7002851-4	SEE 65043-035		
7002999-2	SEE 65039-35		
7003123-32	SEE AM26LS32DM		
7003123-32	SEE AM26LS32AMJ		
7003129-821	SEE 1N5821		
7003147-31	SEE AM26LS31DM		
7003147-31	SEE DS26LS31MJ883		
7003216-111		9 21	2
7003217-130		4 3	8

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
7003217-67	SEE 2057-440SS20		
7003217-67 (REPL BY ITEM 33A)		9 33	4
7003217-71		2 3	4
7003467	SEE 65307-001		
7004891-3	SEE 4446-2F		
7004891-3	SEE IM26-8UPMF		
7004975-20	SEE 68021-120		
7005517-2	SEE FRJ55		
7005570	SEE 1ZUHE		
7005957-34	SEE AM26LS34DM		
7005957-34	SEE AM26LS34BEA		
7005997-484	SEE TL084MJ		
7007355-440	SEE MC54C4040J		
7007355-440	SEE CD54HC4040F		
7007355-451	SEE MC54HC4051J		
7007355-451	SEE MC74HC4051AN		
7007355-453	SEE MC54HC4053J		
7007355-453	SEE 5962-8775401EA		
7007739-31	SEE RCV31-4242-0		
7007739-40	SEE MUPH7000-40110		
7007757-489	SEE MC1489L		
7008565-2	SEE BS41543F		
7008851-803	SEE ULN2803A		
7009216-819	SEE 1N5819		
7009600-170	SEE 929715-03-35		
7009600-170	SEE 68716-170		
7009600-302	SEE 929665-08-01		
7009600-302	SEE 3M929665-08-01		
7009600-304	SEE 929665-08-02		
7009600-304	SEE CAD04-23B63		
7009600-312	SEE 929665-08-06		
7009600-326	SEE 929665-08-13		
7009600-326	SEE CAD26-23B63		
7009600-360	SEE 929665-08-30		
7009600-360	SEE CAD60-23B63		
7009789-708	SEE CP82C59A		
7010681-263	SEE 470C7X7R103M5DG		
7010681-263	SEE CS20108D1X103M5		
7010859-82	SEE LT1013CN8		
7011533-107	SEE CD54HC107F		
7011533-107 (REPL ITEM 88)		5 - 88A	1
7011533-125	SEE CD54HC125F		
7011533-125	SEE SN54HC125J		
7011533-138	SEE CD54HC138F		
7011533-138	SEE SN54HC138J		
7011533-14	SEE CD54HC14F		
7011533-14	SEE SN54HC14J		

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<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
7011533-151	SEE CD54HC151F		
7011533-151	SEE SN54HC151J		
7011533-164	SEE CD54HC165F		
7011533-164	SEE SN54HC164J		
7011533-165	SEE CD54HC175F		
7011533-165	SEE SN54HC165J		
7011533-175	SEE CD54HC175F		
7011533-175	SEE 8408901EA		
7011533-20	SEE CD54HC20F		
7011533-20	SEE SN54HC20J		
7011533-244	SEE MM54HC244J		
7011533-244	SEE CD54HC244F		
7011533-245	SEE CD54HC245J		
7011533-245	SEE SN54HC245J		
7011533-273	SEE CD54HC273F		
7011533-30	SEE CD54HC30F		
7011533-30		5 - 86A	1
(REPL ITEM 86)			
		7 - 97A	1
(REPL ITEM 97)			
		8 - 88A	1
(REPL ITEM 88)			
		10 -110A	1
(REPL ITEM 110)			
7011533-32	SEE CD54HC32F		
7011533-32	SEE SN54HC32J		
7011533-374	SEE CD54HC374F		
7011533-374	SEE SNJ54HC374		
7011533-393	SEE CD54HC393F		
7011533-393	SEE SN54HC393J		
7011533-4	SEE SN54HC04J		
7011533-4		6 92	2
(REPL BY ITEM 92A)			
		7 95	1
(REPL BY ITEM 95A)			
		8 87	3
(REPL BY ITEM 87A)			
		10 108	2
(REPL BY ITEM 108A)			
		13 5	1
(REPL BY ITEM 5A)			
7011533-573	SEE CD54HC573F		
7011533-573		6 -106A	2
(REPL ITEM 106)			
7011533-688	SEE CD54HC688F		
7011533-688	SEE SN54HC688J		
7011533-74	SEE CD54HC74F		
7011533-74	SEE SN54HC74J		
7011533-8	SEE CD54HC08F		

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Radio Test Interface Unit / Part No. 7511400

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
7011533-8	SEE SN54HC08J		
7011533-804	SEE CD54HCU04F		
7011533-804	SEE SN54HCU04J		
7011533-86	SEE CD54HC86F		
7011533-86	SEE SN54HC86J		
7011533-999	SEE CD54HC00F		
7011533-999	SEE SNJ54HC00J		
7011882-250		5 -109A	1
		5 -110B	1
		6 -120A	1
		6 -122A	1
		8 -111A	1
		8 -114A	1
7012050-44	SEE P8344AH		
7012050-44		6 -110A	1
(REPL ITEM 110)			
7012385-70	SEE HI3-507-5		
7012385-70	SEE HI3-0507-5		
7017509-125	SEE CD54HCT125F		
7017509-138	SEE MM54HCT138J		
7017509-151	SEE CD54HCT151F		
7017509-244	SEE CD54HCT244F		
7017509-245	SEE MM54HCT245J		
7017509-245	SEE SNJ54HCT245J		
7017509-373	SEE MM54HCT373J		
7017509-374	SEE MM54HCT374J		
7028696	SEE 06805-062		
7210-1511-0000		1 5	1
(REPL BY ITEM 5A)			
7500000-100	SEE RD2S10G		
7500000-100	SEE RDS2100GT52		
7500000-101	SEE RDS2101GT52		
7500000-101		5 70	1
(REPL BY ITEM 70A)			
		7 83	4
(REPL BY ITEM 83A)			
		8 67	1
(REPL BY ITEM 67A)			
7500000-102	SEE RD2S1KG		
7500000-102	SEE RDS21KG		
7500000-103	SEE RD2S10KG		
7500000-104	SEE RD2S100KG		
7500000-122	SEE RD2S1-2KG		
7500000-152	SEE RD2S1-5KG		
7500000-153	SEE RD2S15KG		
7500000-163	SEE RD2S16KG		
7500000-201	SEE RD2S200G		
7500000-202	SEE RD2S2KG		
7500000-203	SEE RD2S20KG		

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
7500000-204	SEE RD2S200KG		
7500000-221	SEE RD2S220G		
7500000-222	SEE RD2S2-2KG		
7500000-223	SEE RD2S22KG		
7500000-273	SEE RD2S27KG		
7500000-302	SEE RD2S3KG		
7500000-332	SEE RD2S3-3KG		
7500000-333	SEE RD2S33KG		
7500000-431	SEE RD2S430G		
7500000-470	SEE RD2S47G		
7500000-471	SEE RD2S470G		
7500000-471	SEE RDS2471G		
7500000-472	SEE RD2S4-7KG		
7500000-473	SEE RD2S47KG		
7500000-621	SEE RD2S620G		
7500000-683	SEE RD2S68KG		
7500000-910	SEE RD2S91G		
7500013-5	SEE MC7905CT		
7500014-100	SEE K100J15COGFVAWA		
7500014-101	SEE K101J15COGFVAWA		
7500014-102	SEE K102J20COGFVBWA		
7500014-103	SEE K103J30COGFVCWA		
7500014-121	SEE K121J15COGFVAWA		
7500014-180	SEE K180J15COGFVAWA		
7500014-181	SEE K181J15COGFVAWA		
7500014-222	SEE K222J20COGFVBWA		
7500014-271	SEE K271J15COGFVAWA		
7500014-330	SEE K330J15COGFVAWA		
7500014-392	SEE K392J30COGFVCWA		
7500014-470	SEE K470J15COGFVAWA		
7500014-470	SEE RPE110COG470J50		
7500014-471	SEE K471J15COGFVAWA		
7500014-472	SEE K472J30COGFVCWA		
7500014-561	SEE K561J15COGFVAWA		
7500014-680	SEE K680J15COGFVAWA		
7500015-102	SEE CW15C120K		
7500015-103	SEE CW15C103K		
7500015-104	SEE CW20C104K		
7500015-105	SEE RPE113X7R105K50		
7500015-473	SEE CW20C473K		
7500015-474	SEE CW40C474K		
7500015-564	SEE CW40C564K		
7500033-1	SEE 76046-001		
7500033-1	SEE 008-0096-14		
7500152-70	SEE AD7549KN		
7500161-1	SEE TP3040J1		
7500161-1	SEE 7500161-1		
7500161-1		10 -122A	1
(REPL ITEM 122)			

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Radio Test Interface Unit / Part No. 7511400

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
7500170-161 SEE LM161J			
7500170-161 (REPL ITEM 123)		10 -123A	1
7500177-50 SEE MC1500G5			
7500177-50 SEE REF02AJ			
7500215 SEE 100184			
7500264		10 101	1
7500279-16 SEE A229-16			
7500279-18 SEE A214-18			
7500279-19 SEE A214-19			
7500279-2 SEE A214-2			
7500279-20 SEE A214-20			
7500279-9 SEE A214-9			
7500321-1 SEE 1007064			
7500322-1 SEE 105-2201-205			
7500322-2 SEE 105-2202-205			
7500322-3 SEE 105-2203-205			
7500322-4 SEE 105-2204-205			
7500322-5 SEE 105-2207-205			
7500322-6 SEE 105-2210-205			
7500330 SEE 25A7			
7500330 SEE PW7232			
7500334-3 SEE 7210-1511-0000			
7500343-1 SEE V802-12SS05Q			
7500344-1 SEE 17253			
7500344-3 SEE 17600			
7500345-1 SEE HLMP5030			
7500347-120 SEE SRM20256C12			
7500347-120 SEE UPD43256BCZ70L			
7500349-1 SEE 5505			
7500350-1 SEE 1-640415-1			
7500351-1 SEE 641777-1			
7500351-3 SEE 641775-1			
7500351-4 SEE 1-640721-0			
7500351-5 SEE 1-640722-0			
7500352-1 SEE 1-480702-0			
7500352-2 SEE 1-480704-0			
7500352-3 SEE 1-480706-0			
7500352-5 SEE 1-480703-0			
7500352-6 SEE 1-480705-0			
7500352-7 SEE 1-480707-0			
7500354-1 SEE 8121SY4ZGE			
7500355-1		9 45	1
7500357-1 SEE 12A			
7500357-2 SEE C12B			
7500358-75 SEE HCBB75WA			
7500360-41		4 15	1
7500360-51		4 14	1
7500360-61		4 13	1

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Radio Test Interface Unit / Part No. 7511400

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
7500364-52	SEE CP82C52		
7500365-154	SEE M80C154HRS		
7500366-487	SEE DS3487N		
7500367-222	SEE MPQ2222A		
7500368-8	SEE IP80C88-2		
7500369-270	SEE P82C54-2		
7500369-270	SEE CP82C54-10		
7500385-121	SEE TIP121		
7500391	SEE 5502		
7500433-1	SEE 350218-1		
7500433-101	SEE 350536-1		
7500433-102	SEE 350550-1		
7500433-2	SEE 350547-1		
7500435-1	SEE KC79-105		
7500534-2	SEE 6950-55		
7500534-4	SEE 6950-48		
7500537-70	SEE AD7582KN		
7500575-1	SEE 27E487		
7500575-2	SEE 20C297		
7500576-8	SEE K10P11D15-24		
7500600-505	SEE MC145505P		
7500600-505 (REPL ITEM 127)		10 -127A	2
7500611-28	SEE DA628-42T		
7500625-850	SEE OP470FY		
7500625-850 (REPL ITEM 155)		10 -155A	5
7500628-50	SEE RXE050		
7511039	SEE KB500B1-8		
7511055-102		10 121	1
7511400-901		1 - 1	RF
7511400-902		1 - 1A	RF
7511410-901		4 16	1
		11 - 1	RF
7511411		11 1A	1
		11 15	1
7511414-901		1 14	1
		4 - 1	RF
7511415	SEE B55746		
7511420-901		1 11	2
		2 - 1	RF
7511421		2 - 1A	1
		2 20	1
7511424-901		1 19	1
		9 - 1	RF
7511425-901		4 1A	1
7511430-901		1 20	1
		10 - 1	RF

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Radio Test Interface Unit / Part No. 7511400

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
7511431		10 1A	1
		10 160	1
7511432-901		10 8	1
		13 - 1	RF
7511433		13 1A	1
		13 15	1
7511434-901		9 39	1
		12 - 1	RF
7511435		9 32	1
7511439-101		10 116	1
7511440-901		1 18	1
		8 - 1	RF
7511440-902		1 28	1
		8 - 1A	RF
7511441		8 120	1
7511445		1 23	2
7511449-105		8 111	1
7511449-106		8 114	1
7511460-901		1 17	1
		7 - 1	RF
7511461		7 1A	1
		7 130	1
7511464-901		1 21	2
		14 - 1	RF
7511464-902		4 17	1
		15 - 1	RF
7511464-903		9 42	1
		16 - 1	RF
7511465		9 1A	6
7511467		7 3	2
7511468		7 4	2
7511470-901		1 16	1
		6 - 1	RF
7511470-902		1 26	1
		6 - 1A	RF
7511471		6 125	1
7511474-901		2 8	1
		17 - 1	RF
7511474-902		4 18	1
		18 - 1	RF
7511474-903		12 9	1
		19 - 1	RF
7511474-904		9 43	1
		20 - 1	RF
7511474-905		3 2	1
		21 - 1	RF
7511474-906		1 24	1
		22 - 1	RF

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Radio Test Interface Unit / Part No. 7511400

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
7511474-907		9 46	1
		23 - 1	RF
7511475		9 2	4
7511479-105		6 120	1
7511479-106		6 122	1
7511480-901		1 15	1
		5 - 1	RF
7511480-902		1 25	1
		5 - 1A	RF
7511481		5 115	1
7511485		9 35	2
7511489-105		5 109	1
7511489-106		5 110	1
(PRE SB 7511400-34-5)			
7511489-107		5 -110A	1
(POST SB			
7511400-34-5)			
7511490-901		1 13	1
		3 - 1	RF
7511491		3 - 1A	1
		3 15	1
752947-2	SEE MS21266-2N		
752947-3	SEE MS21266-3N		
76PSB04S		6 69	1
76046-001		5 78	2
(REPL BY ITEM 78A)			
		6 4	1
(REPL BY ITEM 4A)			
		8 4	1
(REPL BY ITEM 4A)			
		10 137	1
(REPL BY ITEM 137A)			
76804-27		14 3	38
(REPL BY ITEM 3A)			
		15 3	11
(REPL BY ITEM 3A)			
		16 3	2
(REPL BY ITEM 3A)			
		19 3	9
(REPL BY ITEM 3A)			
8121SY4ZGE		9 7	1
8408901EA		6 -102A	1
(REPL ITEM 102)			
		8 - 94A	1
(REPL ITEM 94)			
9224-115		7 6	3
(REPL BY ITEM 6A)			
9234N115		7 5	3

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Radio Test Interface Unit / Part No. 7511400

<u>Part Number</u>	<u>Airline Stock No.</u>	<u>Fig. Item</u>	<u>Total Req</u>
929665-08-01 (REPL BY ITEM 66A)		5 66	1
929665-08-02 (REPL BY ITEM 64A)		5 64	1
(REPL BY ITEM 59A)		6 59	1
(REPL BY ITEM 64A)		7 64	1
929665-08-06		10 68	1
929665-08-13 (REPL BY ITEM 65A)		5 65	1
929665-08-30 (REPL BY ITEM 9A)		11 9	4
929715-03-35 (REPL BY ITEM 7A)		3 7	4

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Radio Test Interface Unit / Part No. 7511400

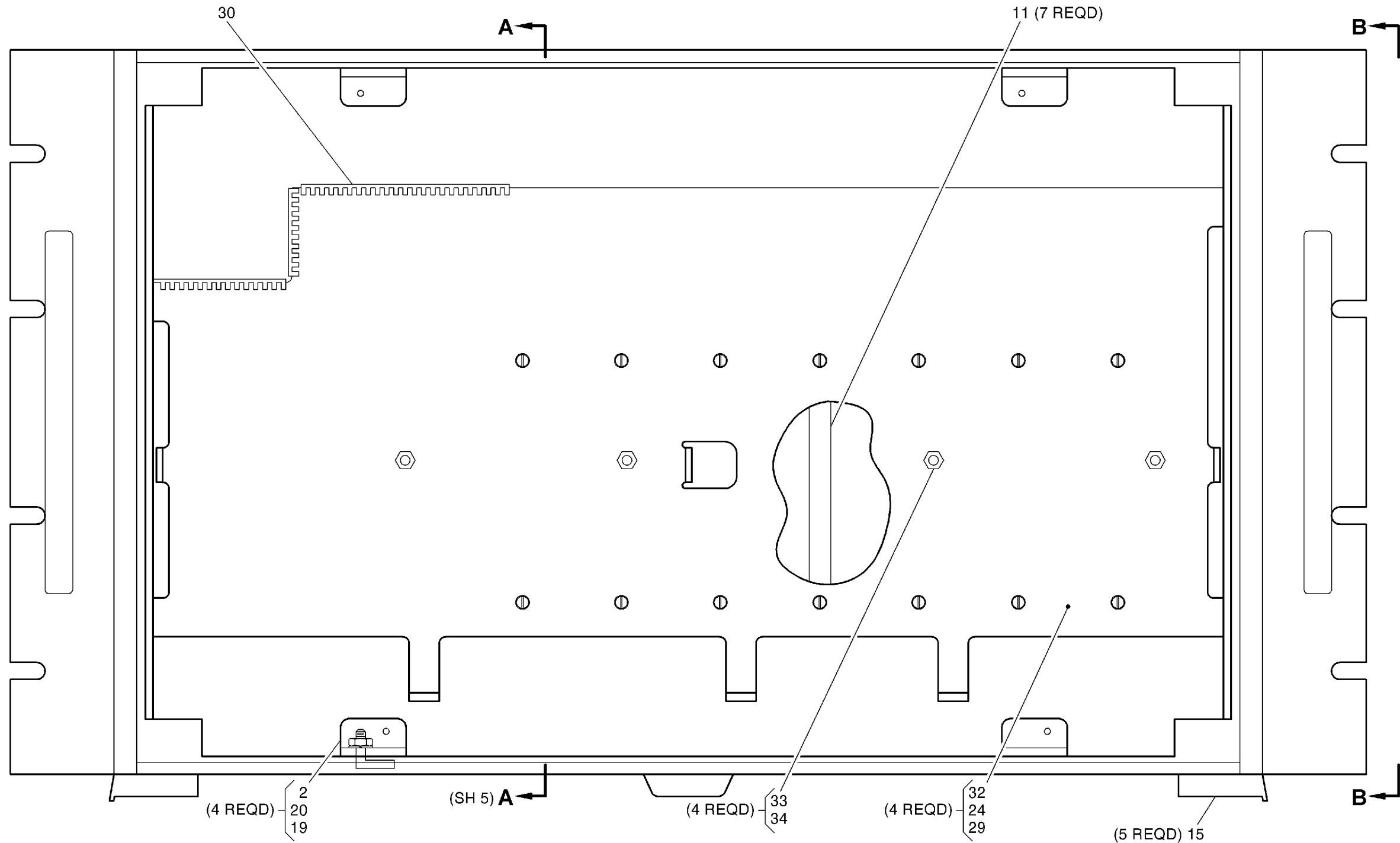
6. Parts List



GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

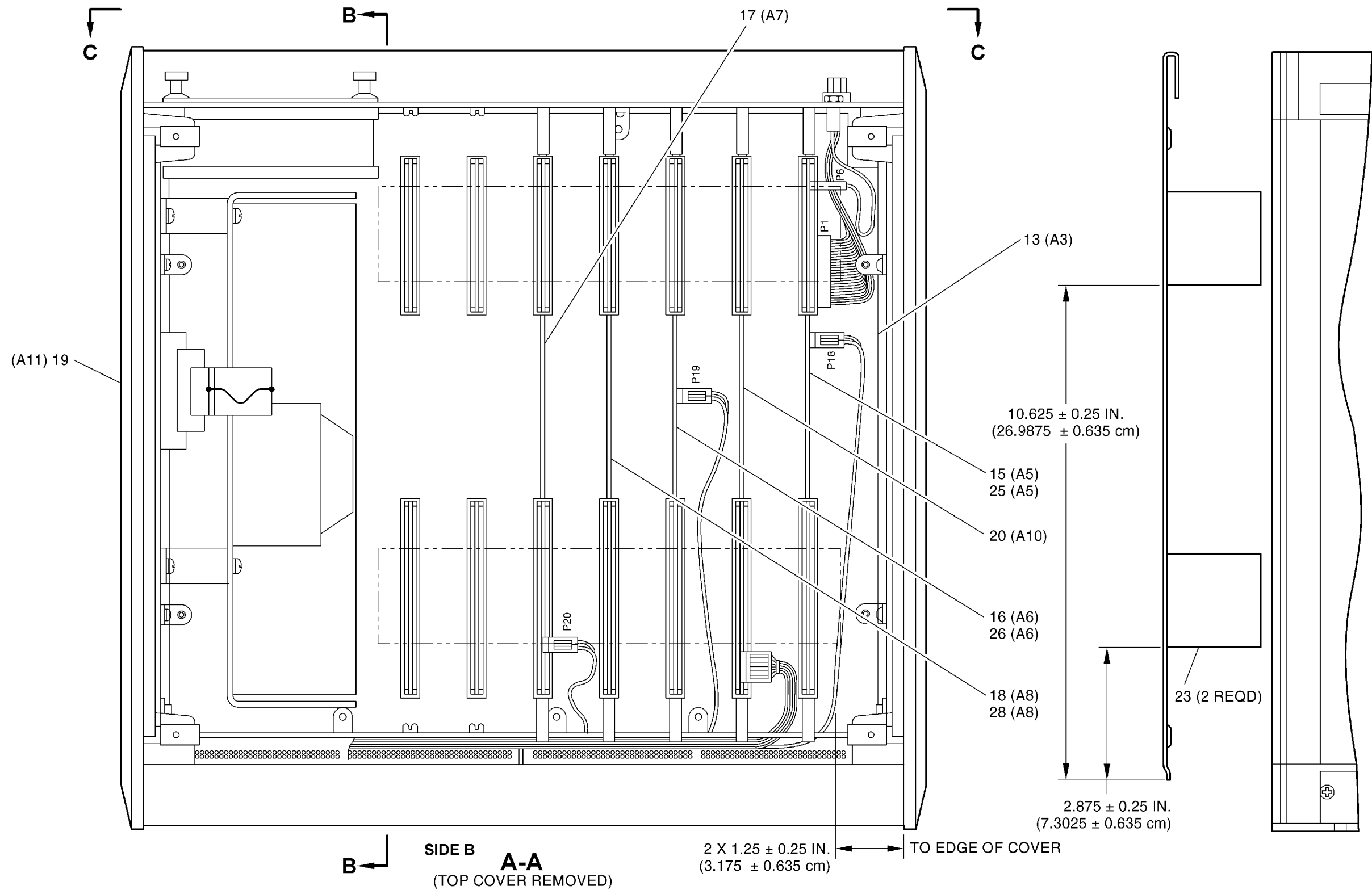
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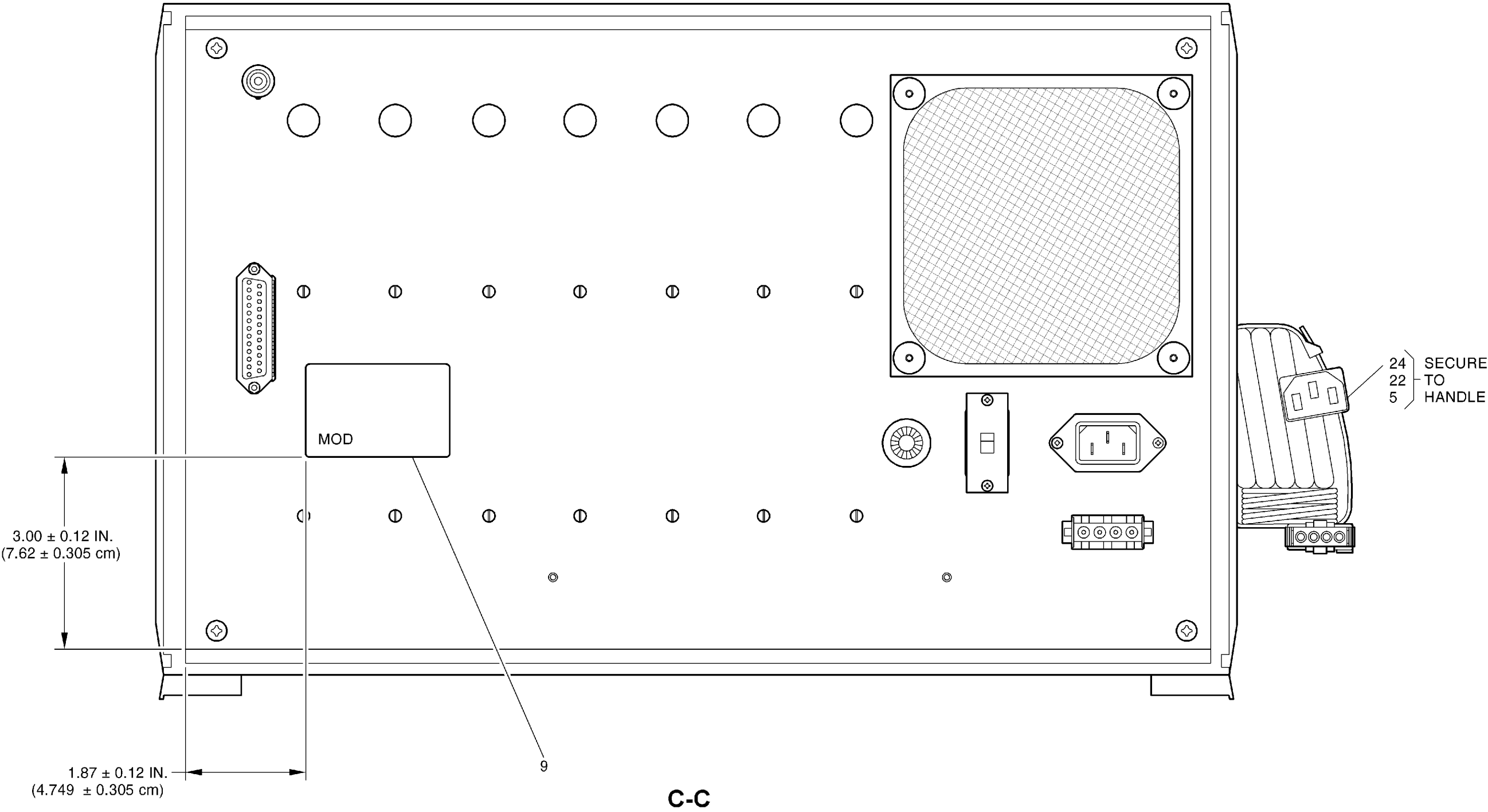
NOTE:
Part designations are for reference only and do not appear on parts.
Prefix designations with A11. For example, A1 is A11A1.

ID-152576 E7511424-2

IPL Figure 1 (Sheet 1). Radio Test Interface Unit

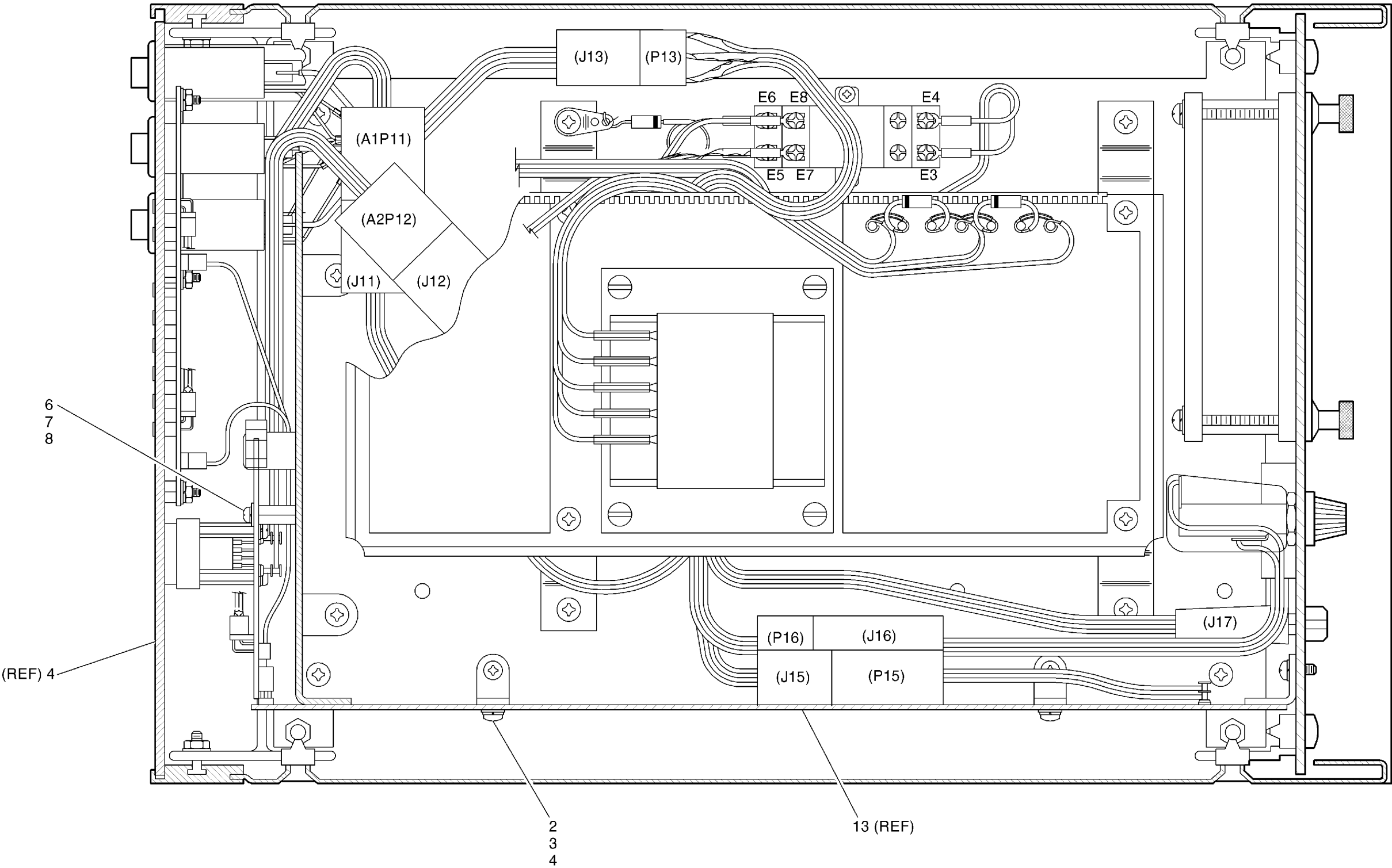


IPL Figure 1 (Sheet 2). Radio Test Interface Unit



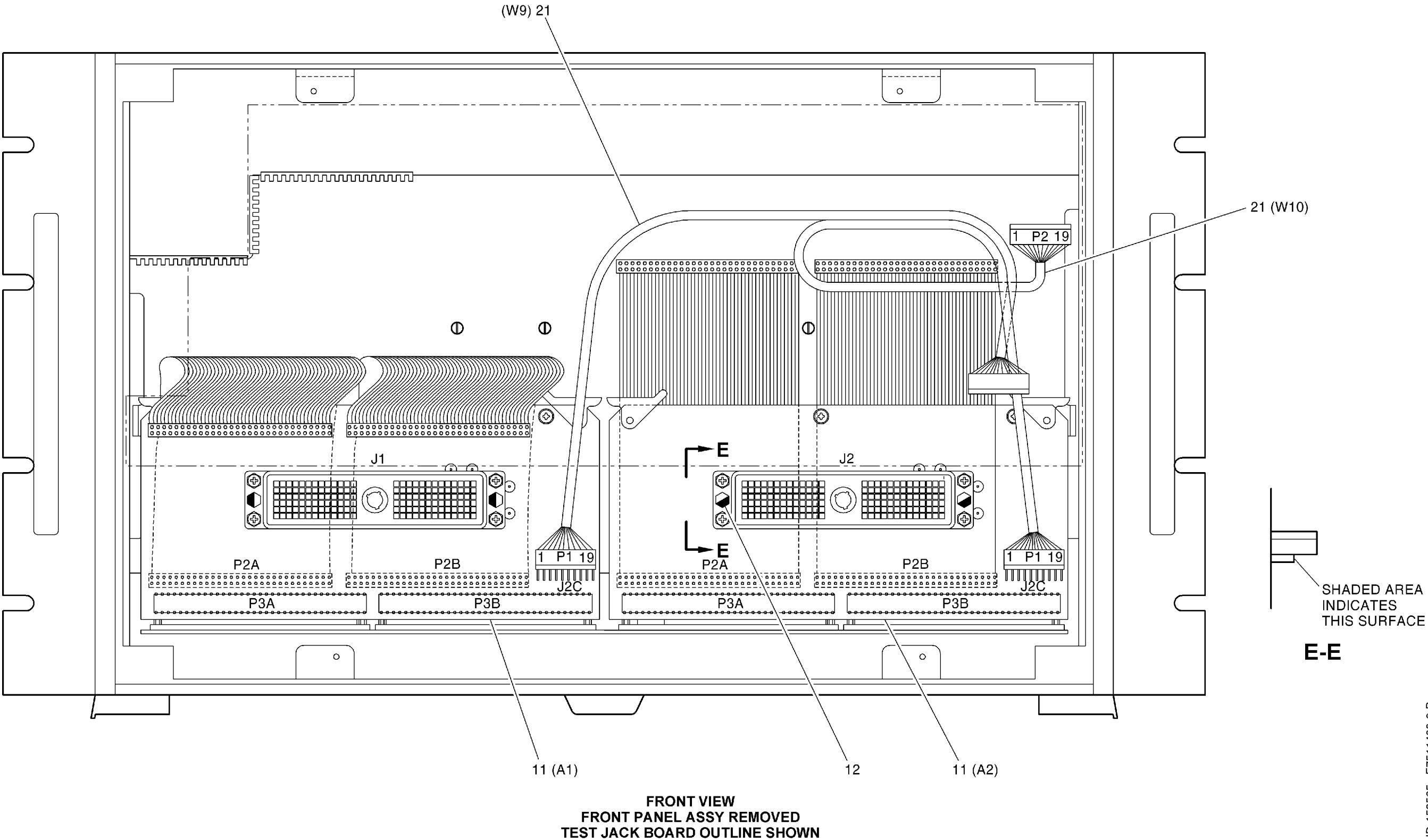
ID-152563 E7511400-4-B

IPL Figure 1 (Sheet 3). Radio Test Interface Unit



B-B

IPL Figure 1 (Sheet 4). Radio Test Interface Unit



IPL Figure 1 (Sheet 5). Radio Test Interface Unit

ID-152565 E7511400-6-B

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
			USABLE ON CODES CODE A 7511400-901 CODE B 7511400-902		
R 1 - 1	7511400-901		INTERFACE UNIT,RADIO TEST	A	RF
R - 1A	7511400-902		RADIO INTERFACE UNIT (ESDS)	B	RF
	2	MS51957-26	.SCREW PNH CRES 6-32X1-4 (HPN 0919-26)		9
R	3	MS35338-136	.WASHER,LOCK CRES 0.151 ID (HPN 0164-7) (REPL BY ITEM 3A)		9
R - 3A	0164-7		.WASHER,LOCK CRES 0.151 ID (MS35338-136 MAY BE SUBST) (REPL ITEM 3)		9
R	4	MS15795-805	.WASHER,FLAT CRES 0.156 ID (V09772) (HPN 0770-7) OPT MFG PN V70318 MS15795-805		9
R	5	7210-1511-0000	.CONNECTOR (V19505) (HPN 7500334-3) (REPL BY ITEM 5A)		1
R - 5A	17600		.LINE CORD,RECEPTACLE (V2W733) (HPN 7500344-3) (REPL ITEM 5)		1
R	6	MS51957-13	.SCREW PNH CRES 4-40X1-4 (HPN 0919-13) (REPL BY ITEM 6A)		4
R - 6A	0919-13		.SCREW PNH CRES 4-40X1-4 (REPL ITEM 6)		4

- Item Not Illustrated

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

	<u>Fig.</u>		<u>Part</u>	<u>Airline</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff</u>	<u>Units</u>
	<u>Item</u>		<u>Number</u>	<u>Stock No.</u>			<u>Code</u>	<u>Per</u>
R	1	7	MS15795-803			.WASHER, FLAT CRES 0.125 ID (V09772) (HPN 0770-5) OPT MFG PN V70318 MS15795-803		4
R		8	MS35338-135			.WASHER, LOCK CRES 0.124 ID (HPN 0164-5) (REPL BY ITEM 8A)		4
R	-	8A	0164-5			.WASHER, LOCK CRES 0.124 ID (MS35338-135 MAY BE SUBST) (REPL ITEM 8)		4
R		9	7000036-1			.PLATE, IDENTIFICATION		1
R		11	7511420-901			.CCA-RTIU ZIF CONN (ESDS) (A1, A2) (SEE FIG. 2 FOR DETAILS)		2
R		12	DLPOLKIT			.POST KIT (V71468) (HPN 4015007-5) OPT MFG PN V71468 320-0021-000		1
R		13	7511490-901			.CCA-MOTHER BOARD (ESDS) (A3) (SEE FIG. 3 FOR DETAILS)		1
R		14	7511414-901			.PANEL ASSEMBLY, RTIU FRONT (A12) (SEE FIG. 4 FOR DETAILS)		1
R		15	7511480-901			.CCA-CPU (ESDS) (A5) (SEE FIG. 5 FOR DETAILS)	A	1

- Item Not Illustrated

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Radio Test Interface Unit / Part No. 7511400

<u>Fig. Item</u>		<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
1	16	7511470-901		.CIRCUIT CARD ASSEMBLY- RSB/RCB/STRAP (ESDS) (A6) (SEE FIG. 6 FOR DETAILS)	A	1
R	17	7511460-901		.CCA-ANALOG (ESDS) (A7) (SEE FIG. 7 FOR DETAILS)		1
R	18	7511440-901		.CCA-SERIAL INTERFACE (ESDS) (A8) (SEE FIG. 8 FOR DETAILS)	A	1
R	19	7511424-901		.CHASSIS ASSEMBLY,RTIU (A11) (SEE FIG. 9 FOR DETAILS)		1
R	20	7511430-901		.CCA-RTIU AUDIO INTERFACE (ESDS) (A10) (SEE FIG.10 FOR DETAILS)		1
	21	7511464-901		.CABLE ASSEMBLY (W9, W10) (SEE FIG.14 FOR DETAILS)		2
R	22	MS17821-2		.STRAP (HPN 1711017-2)		1
	23	7511445		.PAD,FOAM		2
	24	7511474-906		.LEAD ASSEMBLY (SEE FIG.22 FOR DETAILS)		1
	25	7511480-902		.CIRCUIT CARD ASSEMBLY- CPU (ESDS) (A5) (SEE FIG. 5 FOR DETAILS)	B	1

- Item Not Illustrated

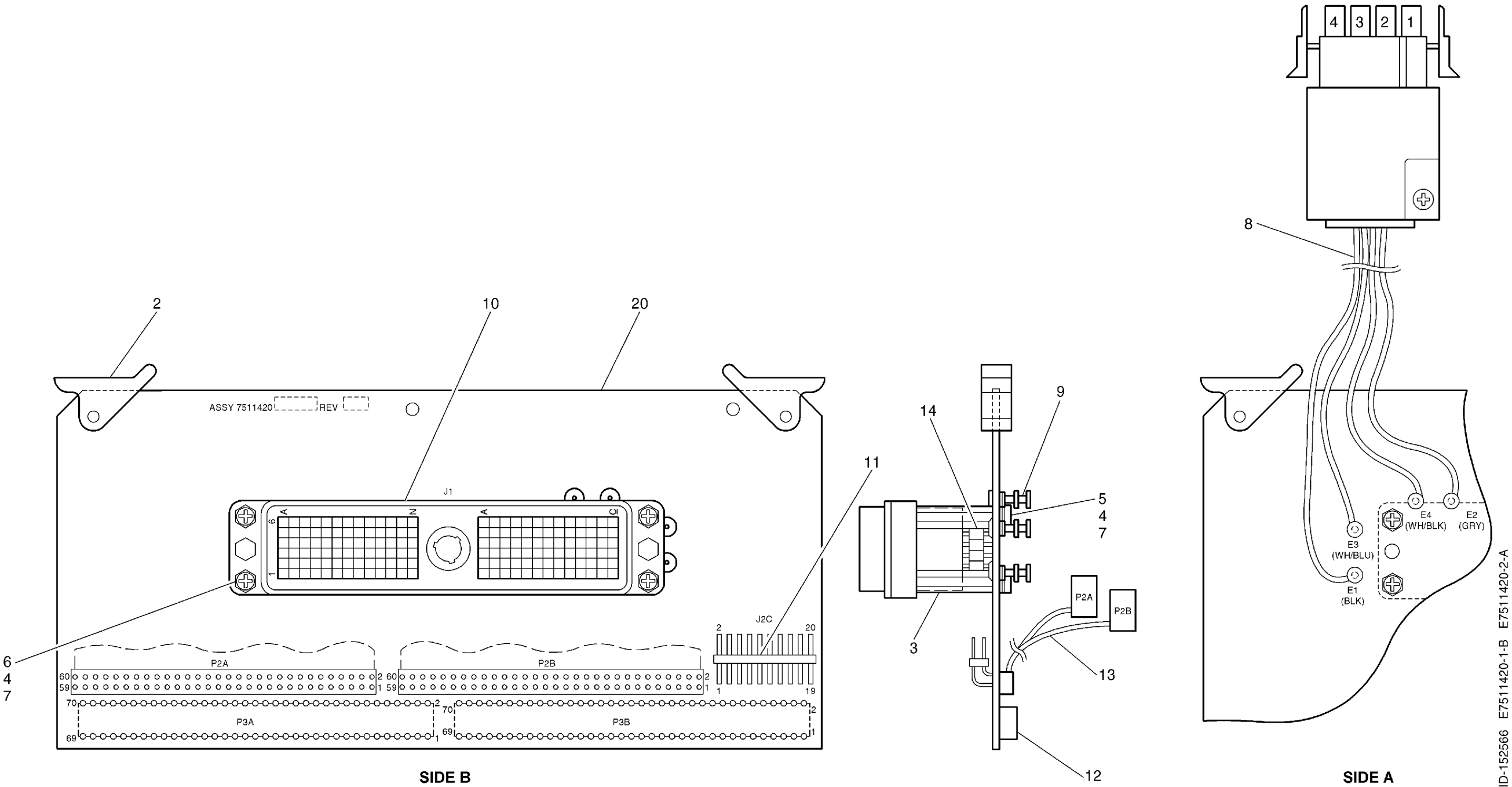
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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

<u>Fig. Item</u>		<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
1	26	7511470-902		.CIRCUIT CARD ASSEMBLY- RSB/RCB/STRAP (ESDS) (A6) (SEE FIG. 6 FOR DETAILS)	B	1
	28	7511440-902		.CIRCUIT CARD ASSEMBLY- SERIAL INTERFACE (ESDS) (A8) (SEE FIG. 8 FOR DETAILS)	B	1
	R 30	SFSW6C9DL07GY		.SCREW RDH STL 6-32X9-16 (V12324) (HPN 2503646-241) (RELOCATED FROM ITEM 1A)		4

- Item Not Illustrated



IPL Figure 2. RTIU ZIF Connector CCA A1, A2

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	2 - 1	7511420-901		CCA-RTIU ZIF CONN (ESDS) (A1, A2) (SEE FIG. 1 ITEM 11 FOR NHA)		RF
R	- 1A	7511421		.PRINTED WIRING BOARD (RELOCATED TO ITEM 20)		1
R	2	HA9PKG4		.EJECTOR (V82893) (HPN 3719221-1) OPT MFG PN V52094 101 V82893 HA9BULK		2
	3	7003217-71		.POST		4
R	4	MS35338-135		.WASHER, LOCK CRES 0.124 ID (HPN 0164-5) (REPL BY ITEM 4A)		8
R	- 4A	0164-5		.WASHER, LOCK CRES 0.124 ID (MS35338-135 MAY BE SUBST) (REPL ITEM 4)		8
R	5	MS51957-13		.SCREW PNH CRES 4-40X1-4 (HPN 0919-13) (REPL BY ITEM 5A)		4
R	- 5A	0919-13		.SCREW PNH CRES 4-40X1-4 (REPL ITEM 5)		4
R	6	MS51957-14B		.SCREW PNH CRES 4-40X5-16 (HPN 2504410-354)		4
R	7	MS15795-803		.WASHER, FLAT CRES 0.125 ID (V09772) (HPN 0770-5) (SEE FIG. 1 ITEM 7 FOR OPT MFG PN)		8
	8	7511474-901		.LEAD ASSEMBLY (SEE FIG.17 FOR DETAILS)		1

- Item Not Illustrated

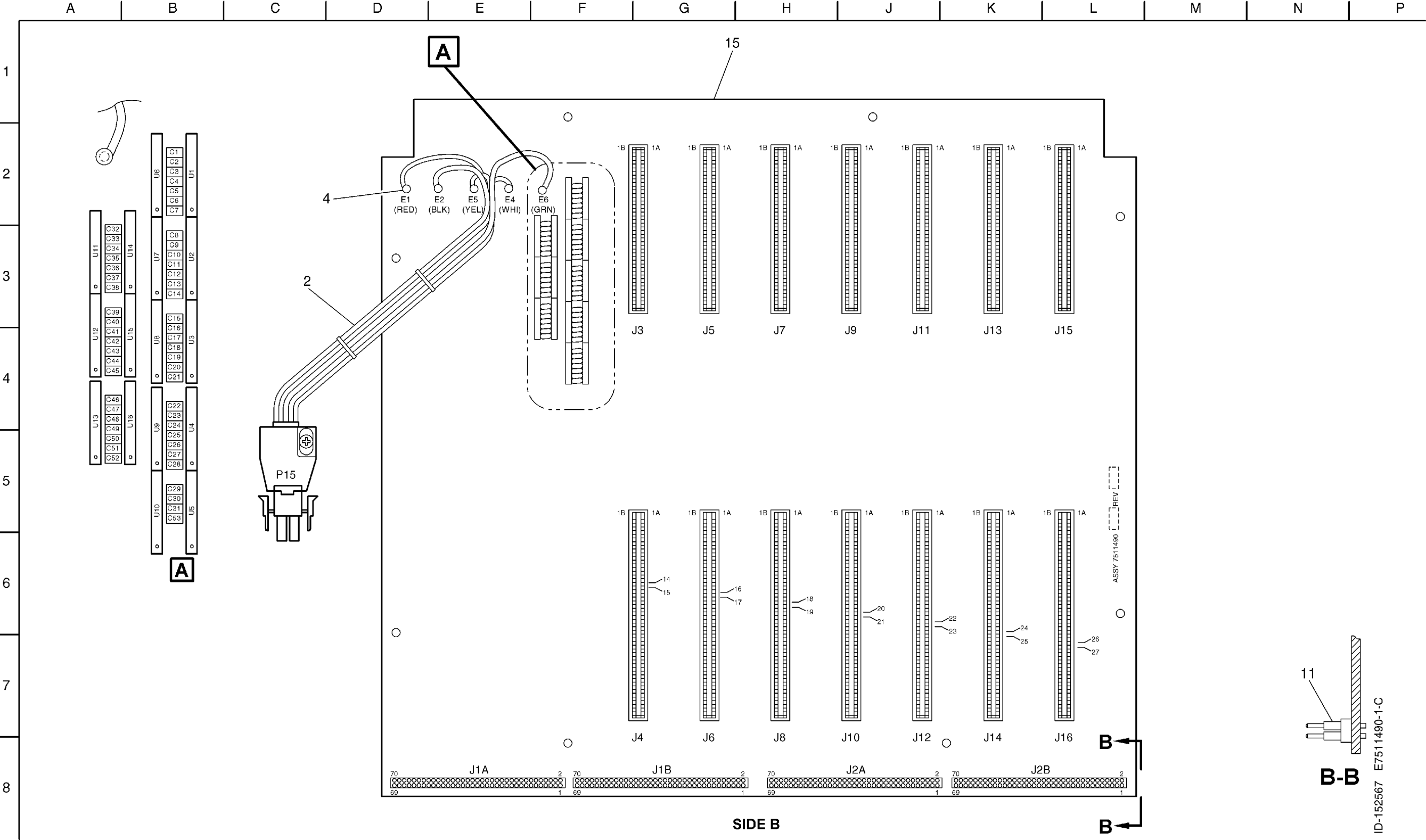
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Radio Test Interface Unit / Part No. 7511400

	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	2 9	5673B		. TERMINAL (V06540) (HPN 245511-2) (REPL BY ITEM 9A)		4
R	- 9A	NAS707RC2		. TERMINAL (HPN 245511-2) (REPL ITEM 9)		4
R	10	DL1-156RW4		. CONNECTOR (V71468) (HPN 4046861)		1
	11	68021-120		. CONNECTOR, RECEPTACLE (V22526) (HPN 7004975-20)		1
	12	65000-056		. CONNECTOR, RECEPTACLE (V22526) (HPN 3719010-35)		2
R	13	1007064		. CABLE ASSEMBLY (V67129) (HPN 7500321-1) OPT MFG PN V30146 1007064		2
R	14	26430002301		. BEAD, FERRITE (V34899) (HPN 7000077-4) (REPL BY ITEM 14A)		156
R	- 14A	2643000201		. BEAD, FERRITE (V34899) (HPN 7000077-4) (REPL ITEM 14)		156
R	20	7511421		. PRINTED WIRING BOARD (RELOCATED FROM ITEM 1A)		1

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IPL Figure 3. Motherboard CCA A3

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	3 - 1	7511490-901		CCA-MOTHER BOARD (ESDS) (A3) (SEE FIG. 1 ITEM 13 FOR NHA)		RF
R	- 1A	7511491		.PRINTED WIRING BOARD (RELOCATED TO ITEM 15)		1
	2	7511474-905		.LEAD ASSEMBLY (SEE FIG.21 FOR DETAILS)		1
R	3	K101J15C0GFVAWA		.CAPACITOR,DIELECTRIC 100 PF $\pm$ 5% 50 VDCW (V59821) (HPN 7500014-101) OPT MFG PN V59821 CN15C101J V51406 RPE110C0G101D50 V04222 SR151A101JAA		53
R	4	5673B		.TERMINAL (V06540) (HPN 245511-2) (REPL BY ITEM 4A)		5
R	- 4A	NAS707RC2		.TERMINAL (HPN 245511-2) (REPL ITEM 4)		5
R	5	RCV31-4242-0		.CONNECTOR,RECEPTACLE (V57856) (HPN 7007739-31) OPT MFG PN V54453 EXC31DRSN		7
R	6	MUPH7000-40110		.CONNECTOR,RECEPTACLE (V23880) (HPN 7007739-40) OPT MFG PN V57856 RCV40-4242-0 V54453 EXC40DRSN		7
R	7	929715-03-35		.HEADER (V63878) (HPN 7009600-170) (REPL BY ITEM 7A)		4

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	3 - 7A	68716-170		.HEADER (V22526) (HPN 7009600-170) OPT MFG PN V52072 CAD70SP100-318-830 (REPL ITEM 7)		4
R	8	4608X1-102		.RESISTOR,NETWORK (V01121) (HPN 7000102-71) (REPL BY ITEM 8A)		6
R	- 8A	MSP08A011001F		.RESISTOR,NETWORK (V56845) (HPN 7000102-71) OPT MFG PN V56845 MSP08A011001FS318 V11236 750-81R1K (REPL ITEM 8)		6
R	9	4608X1-332		.RESISTOR,NETWORK (V32997) (HPN 7000102-78) (REPL BY ITEM 9A)		8
R	- 9A	MSP08A013301F		.RESISTOR,NETWORK (V56845) (HPN 7000102-78) OPT MFG PN V56845 MSP08A013301FS318 V11236 750-81R3-3K (REPL ITEM 9)		8
R	10	4608X101-103		.RESISTOR,NETWORK (V32997) (HPN 7000102-84) (REPL BY ITEM 10A)		2
R	- 10A	MSP08A011002F		.RESISTOR,NETWORK (V56845) (HPN 7000102-84) OPT MFG PN V56845 7000102-84 V11236 750-81R10K (REPL ITEM 10)		2
R	11	26430002301		.BEAD,FERRITE (V34899) (HPN 7000077-4) (REPL BY ITEM 11A)		280

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	3 - 11A	2643000201			.BEAD, FERRITE (V34899) (HPN 7000077-4) (REPL ITEM 11)		280
R	15	7511491			.PRINTED WIRING BOARD (RELOCATED FROM ITEM 1A)		1

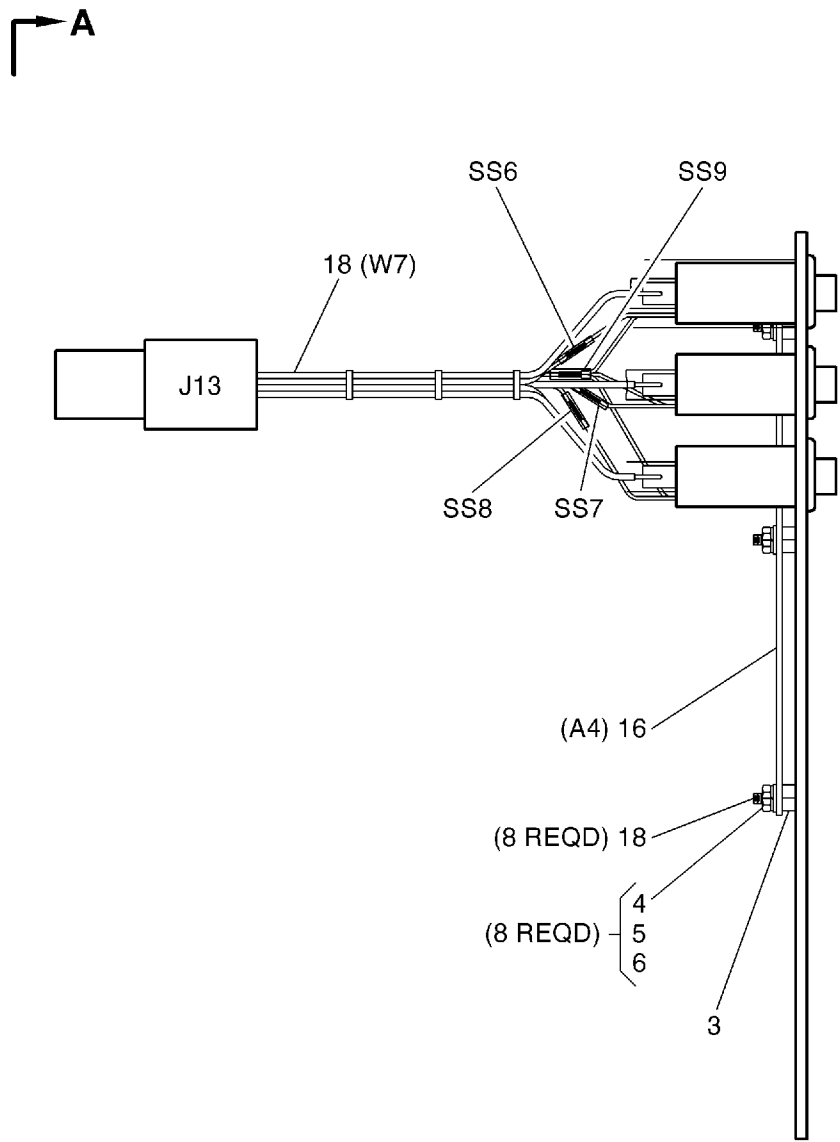
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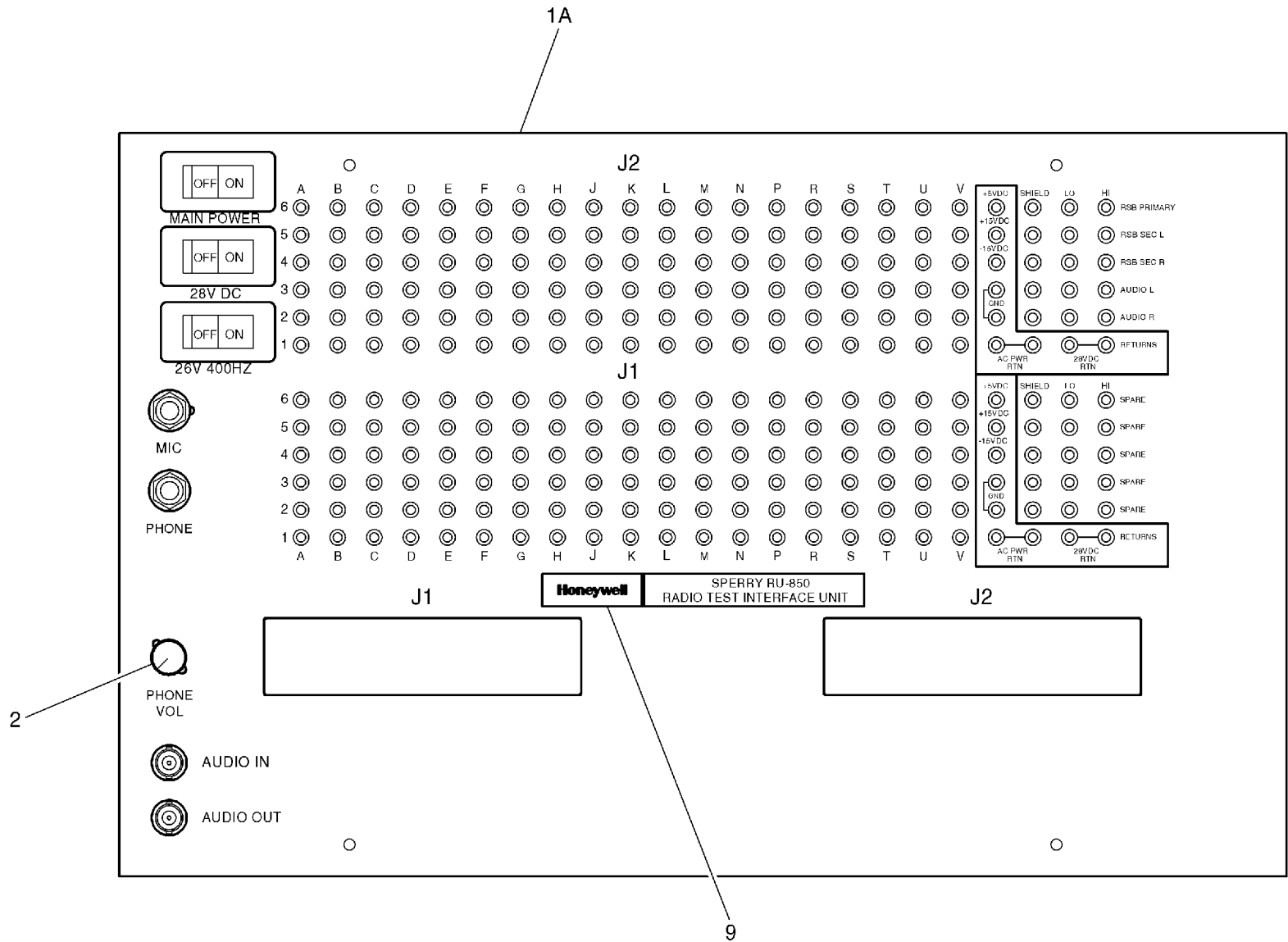
GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

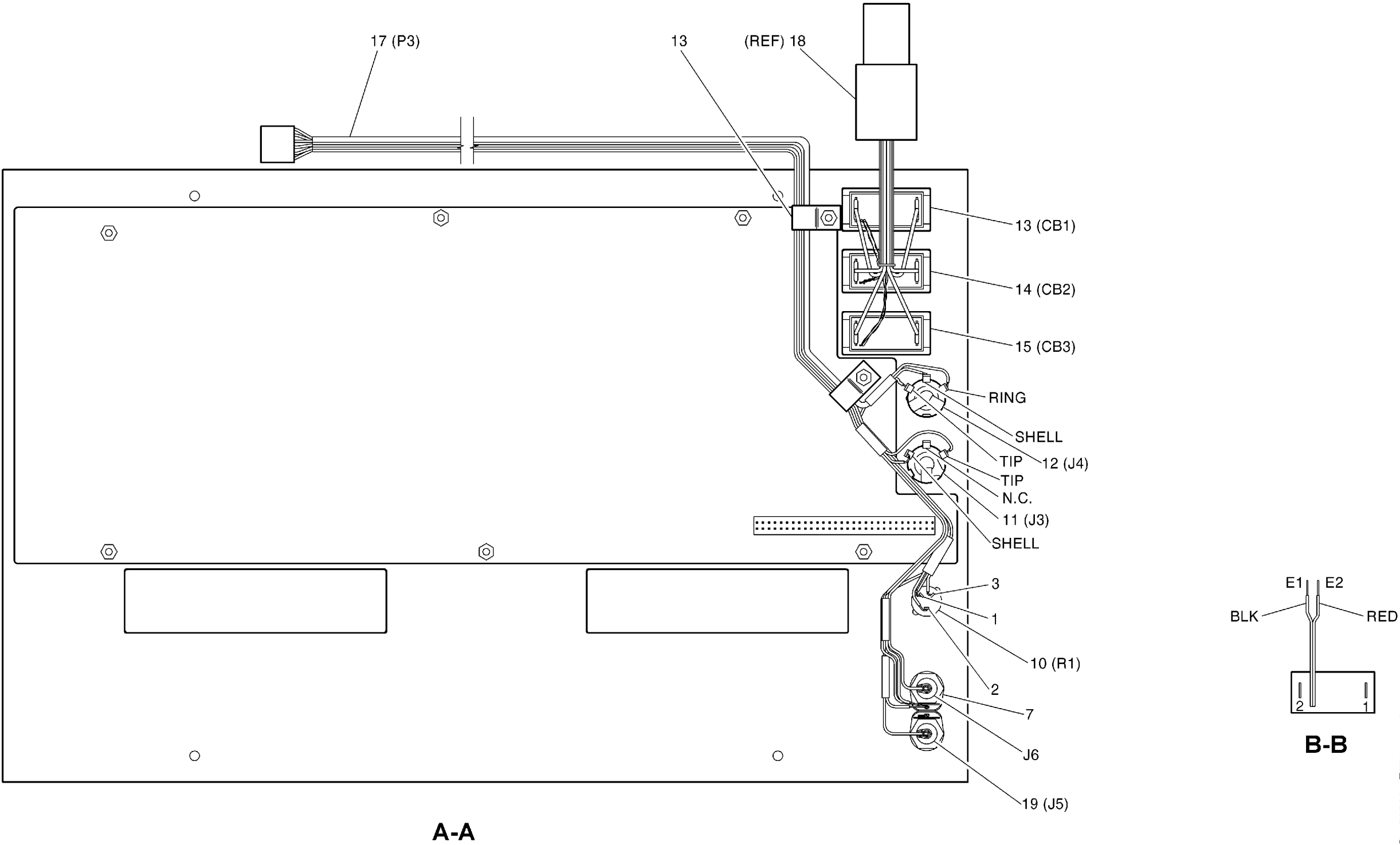
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NOTE:
Part designations are for reference only and do not appear on parts.
Prefix designations with A12. For example, A4 is A12A4.



IPL Figure 4 (Sheet 1). RTIU Front Panel Assembly A12



IPL Figure 4 (Sheet 2). RTIU Front Panel Assembly A12

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	4 - 1	7511414-901		PANEL ASSEMBLY, RTIU FRONT (A12) (SEE FIG. 1 ITEM 14 FOR NHA)		RF
R	1A	7511425-901		.PANEL, FRONT, W/HARDWARE		1
	2	KB500B1-8		.KNOB (V95146) (HPN 7511039)		1
	3	7003217-130		.POST		8
R	4	MS35649-244		.NUT HEX CRES 4-40 (HPN 0424-8)		8
R	5	MS15795-803		.WASHER, FLAT CRES 0.125 ID (V09772) (HPN 0770-5) (SEE FIG. 1 ITEM 7 FOR OPT MFG PN)		8
R	6	MS35338-135		.WASHER, LOCK CRES 0.124 ID (HPN 0164-5) (REPL BY ITEM 6A)		8
R	- 6A	0164-5		.WASHER, LOCK CRES 0.124 ID (MS35338-135 MAY BE SUBST) (REPL ITEM 6)		8
R	7	4026		.TERMINAL (V77147) (HPN 092-12)		2
R	8	F4NY250BK128		.CLAMP (V65664) (HPN 2579174-13) (REPL BY ITEM 8A)		2
R	- 8A	2579174-13		.CLAMP (V85480) (HPN 2579174-13) (REPL ITEM 8)		2
R	9	7000037-164		.PLATE, PRODUCT SIGNATURE		1
R	10	RV6NAYS503A		.RESISTOR, VARIABLE COMPOSITION VARIABLE (HPN 1018530-5)		1

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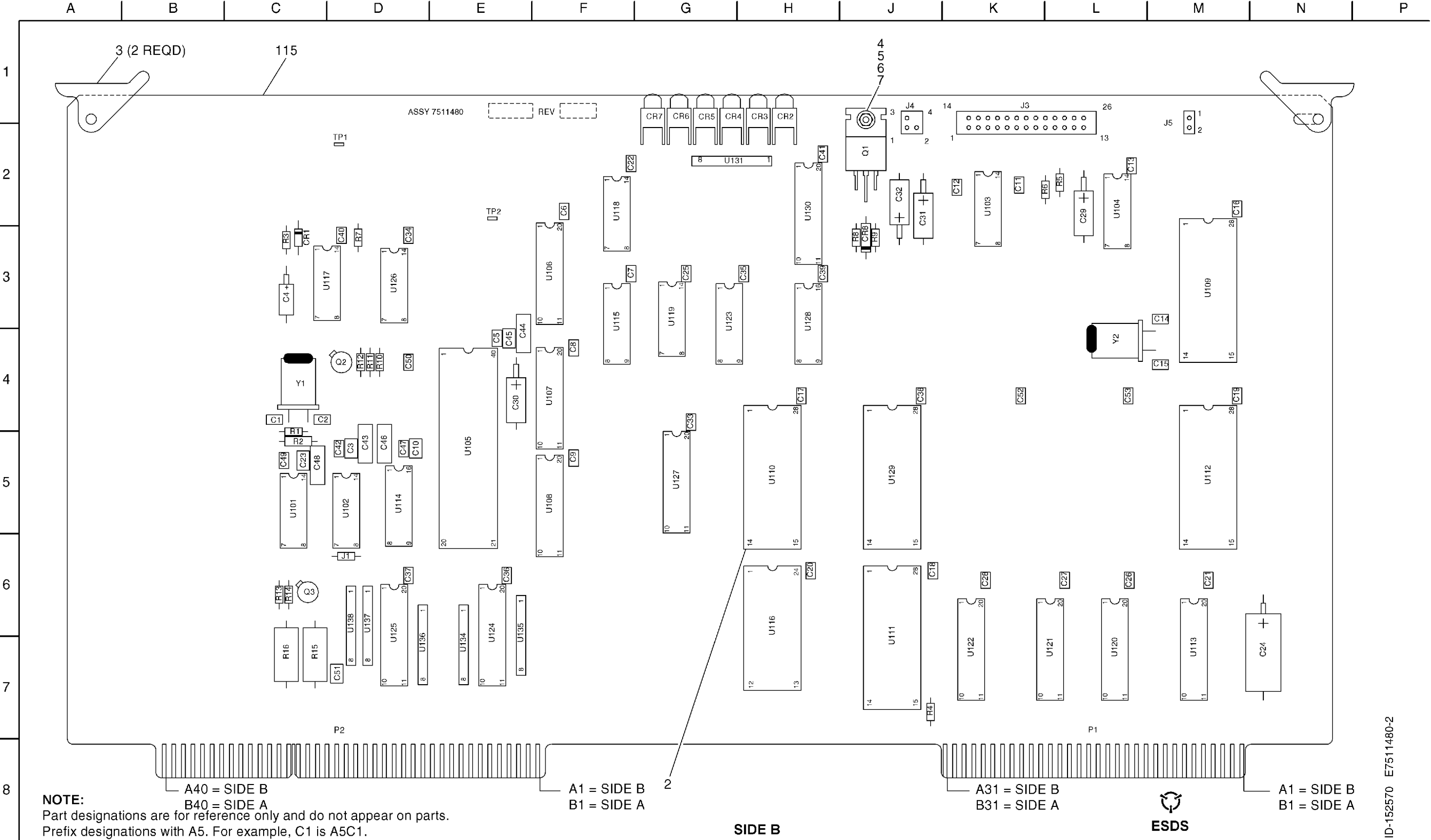
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<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
4 11	12A		.JACK,PHONE (V82389) (HPN 7500357-1)		1
12	C12B		.JACK,PHONE (V82389) (HPN 7500357-2)		1
13	7500360-61		.CIRCUIT BREAKER- PANEL MOUNT (V81541 PN R11-61-5-00AW104EH)		1
14	7500360-51		.CIRCUIT BREAKER- PANEL MOUNT (V81541 PN R11-51-10-0AW103EH)		1
15	7500360-41		.CIRCUIT BREAKER- PANEL MOUNT (V81541 PN R11-41-5-00AW103EH)		1
16	7511410-901		.CIRCUIT CARD ASSEMBLY- TEST JACK (A12A1) (SEE FIG.11 FOR DETAILS)		1
17	7511464-902		.LEAD ASSEMBLY (SEE FIG.15 FOR DETAILS)		1
18	7511474-902		.LEAD ASSEMBLY (SEE FIG.18 FOR DETAILS)		1
19	KC79-105		.CONNECTOR,BNC BULKHEAD RECEPTACLE (V91836) (HPN 7500435-1)		2

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IPL Figure 5. CPU CCA A5

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<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
			USABLE ON CODES CODE A 7511480-901 USED ON 7511400-901 CODE B 7511480-902 USED ON 7511400-902		
R 5 - 1	7511480-901		CCA-CPU (ESDS) (A5) (SEE FIG. 1 ITEM 15 FOR NHA)	A	RF
R - 1A	7511480-902		CIRCUIT CARD ASSEMBLY- CPU (ESDS) (A5) (SEE FIG. 1 ITEM 25 FOR NHA)	B	RF
R 2	DS628-01TT		.SOCKET (V61638) (HPN 3718661-103) OPT MFG PN V00779 4-1437532-1 V3N087 210-99-628-41-001 V00779 528AG12D		1
R 3	HA9PKG4		.EJECTOR (V82893) (HPN 3719221-1) (SEE FIG. 2 ITEM 2 FOR OPT MFG PN)		2
R 4	MS51957-14		.SCREW PNH CRES 4-40X5-16 (HPN 0919-14) (REPL BY ITEM 4A)		1
R - 4A	0919-14		.SCREW PNH CRES 4-40X5-16 (REPL ITEM 4)		1
R 5	MS35338-135		.WASHER, LOCK CRES 0.124 ID (HPN 0164-5) (REPL BY ITEM 5A)		1
R - 5A	0164-5		.WASHER, LOCK CRES 0.124 ID (MS35338-135 MAY BE SUBST) (REPL ITEM 5)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	5 6	MS15795-803		.WASHER, FLAT CRES 0.125 ID (V09772) (HPN 0770-5) (SEE FIG. 1 ITEM 7 FOR OPT MFG PN)		1
R	7	MS35649-244		.NUT HEX CRES 4-40 (HPN 0424-8)		1
	51	M39003-01-2289		.CAPACITOR, ELECTROLYTIC 15 UF $\pm 10\%$ 20 VDCW (HPN 2503220-31)		4
R	52	M39003-01-2301		.CAPACITOR, ELECTROLYTIC 100 UF $\pm 10\%$ 20 VDCW (HPN 2503220-38)		1
	53	M39003-01-2254		.CAPACITOR, ELECTROLYTIC 4.7 UF $\pm 10\%$ 10 VDCW (HPN 2503220-48)		1
R	54	K470J15C0GFVAWA		.CAPACITOR, CERAMIC 47 UUF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-470) (REPL BY ITEM 54A)		2
R	- 54A	RPE110C0G470J50		.CAPACITOR, CERAMIC 47 UUF $\pm 5\%$ 50 VDCW (V51406) (HPN 7500014-470) OPT MFG PN V59821 K470J15C0GFVAWA V59821 CN15C470J V04222 SR155A470JAA (REPL ITEM 54)		2
R	55	K471J15C0GFVAWA		.CAPACITOR, DIELECTRIC 470 UUF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-471) OPT MFG PN V51406 RPE110C0G471J50 V04222 SR151A471JAA		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	5 56	K680J15C0GFVAWA		.CAPACITOR,DIELECTRIC 68 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-680) OPT MFG PN V51406 RPE110C0G680J50 V04222 SR151A680JAA		2
R	57	CW15C103K		.CAPACITOR,CERAMIC 0.01 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-103) OPT MFG PN V04222 SR155C103KAA V51406 RPE110X7R103K50		33
R	58	CW20C104K		.CAPACITOR,CERAMIC 0.1 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-104) OPT MFG PN V04222 SR205C104KAA V19701 K104K20X7RFVBWN V51406 RPE121X7R104K50		4
R	59	RPE113X7R105K50		.CAPACITOR,CERAMIC 1 UF $\pm 10\%$ 50 VDCW (V51406) (HPN 7500015-105) OPT MFG PN V04222 SR305C105KAA V04222 SR405C105KAA V19701 K105K40X7RFVCXD		4
R	60	CW20C473K		.CAPACITOR,CERAMIC 0.047 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-473) OPT MFG PN V04222 SR205C473KAA V51406 RPE121X7R473K50		1
R	61	JAN1N4148-1		.DIODE (V14552) (HPN 2503517-101) (ESDS)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	5 62	2504875-2		.DIODE (ESDS) (REPL BY ITEM 62A)		1
R	- 62A	1N3595		.DIODE (V7D893) (HPN 2504875-2) (ESDS) (REPL ITEM 62)		1
	63	HLMP5030		.DIODE, LIGHT EMITTING- RIGHT ANGLE MOUNT (V50435) (HPN 7500345-1)		6
R	64	929665-08-02		.HEADER (V63878) (HPN 7009600-304) (REPL BY ITEM 64A)		1
R	- 64A	CAD04-23B63		.HEADER (V52072) TRUE PN IS CAD-04-23B-63 (HPN 7009600-304) (REPL ITEM 64)		1
R	65	929665-08-13		.HEADER (V63878) (HPN 7009600-326) (REPL BY ITEM 65A)		1
R	- 65A	CAD26-23B63		.HEADER (V52072) TRUE PN IS CAD-26-23B-63 (HPN 7009600-326) (REPL ITEM 65)		1
R	66	929665-08-01		.HEADER (V63878) (HPN 7009600-302) (REPL BY ITEM 66A)		1
R	- 66A	3M929665-08-01		.HEADER (V53387) (HPN 7009600-302) (REPL ITEM 66)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	5 67	JAN2N2222A		.TRANSISTOR (HPN 4002240-202) (ESDS) (REPL BY ITEM 67A)		2
R	- 67A	4002240-202		.TRANSISTOR (ESDS) (HPN 4002240-102 MAY BE SUBST) (REPL ITEM 67)		2
R	68	TIP121		.TRANSISTOR (V04713) (HPN 7500385-121) (ESDS)		1
R	69	RW69V101		.RESISTOR,WIREWOUND 100 OHMS $\pm 5\%$ 3 W (V91637) (HPN 337708-73)		1
R	70	7500000-101		.RESISTOR,CARBON FILM 100 OHMS $\pm 2\%$ 1/4 W (REPL BY ITEM 70A)		1
R	- 70A	RDS2101GT52		.RESISTOR,CARBON FILM 100 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-101) (REPL ITEM 70)		1
R	71	RD2S1KG		.RESISTOR,FILM 1000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-102) (REPL BY ITEM 71A)		1
R	- 71A	RDS21KG		.RESISTOR,FILM 1000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-102) (REPL ITEM 71)		1
	72	RD2S10KG		.RESISTOR,CARBON FILM 10,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-103)		4
	73	RD2S15KG		.RESISTOR,CARBON FILM 15,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-153)		1

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<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
5 74	RD2S200KG		.RESISTOR,CARBON FILM 200,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-204)		1
75	RD2S2-2KG		.RESISTOR,CARBON FILM 2200 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-222)		1
76	RD2S4-7KG		.RESISTOR,CARBON FILM 4700 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-472)		4
77	RD2S91G		.RESISTOR,CARBON FILM 91 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-910)		1
R 78	76046-001		.TERMINAL (V22526) (HPN 7500033-1) (REPL BY ITEM 78A)		2
R - 78A	008-0096-14		.TERMINAL (V79963) (HPN 7500033-1) (REPL ITEM 78)		2
R 79	MC1488L		.MICROCIRCUIT (V04713) (HPN 4042519-288) (ESDS)		1
R 80	4608X1-561		.RESISTOR NETWORK 560 OHMS $\pm 2\%$ 1 W (V32997) (HPN 7000102-68) (REPL BY ITEM 80A)		1
R - 80A	MSP08A015600F		.RESISTOR NETWORK 560 OHMS $\pm 2\%$ 1 W (V56845) (HPN 7000102-68) OPT MFG PN V56845 MSP08A015600FS318 V11236 750-81R560 (REPL ITEM 80)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	5 81	4608X1-104		.RESISTOR,NETWORK (V32997) (HPN 7000102-96) (REPL BY ITEM 81A)		1
R	- 81A	MSP08A011003F		.RESISTOR,NETWORK (V56845) (HPN 7000102-96) OPT MFG PN V56845 MSP08A011003FS318 V11236 750-81R100K (REPL ITEM 81)		1
R	82	4608X102-471		.RESISTOR,NETWORK (V32997) (HPN 7000102-223) (REPL BY ITEM 82A)		2
R	- 82A	MSP08A034700F		.RESISTOR,NETWORK (V56845) (HPN 7000102-223) OPT MFG PN V11236 750-83R470 V56845 MSP08A034700FS319 (REPL ITEM 82)		2
R	83	4608X102-103		.RESISTOR NETWORK 10,000 OHMS $\pm 2\%$ 1/8 W (V32997) (HPN 7000102-240) (REPL BY ITEM 83A)		2
R	- 83A	7000102-240		.RESISTOR NETWORK 10,000 OHMS $\pm 2\%$ 1/8 W (V56845 PN MSP08A031002FS319) OPT MFG PN V91637 MSP08A03103G V56845 MSP08A031002F V56845 MSP08A031002G V56845 MSP08A031002GS319 V11236 750-83R10K (REPL ITEM 83)		2
R	84	CD54HC14F		.MICROCIRCUIT (V02735) (HPN 7011533-14) (ESDS) (REPL BY ITEM 84A)		1

- Item Not Illustrated

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	5 - 84A	SN54HC14J			.MICROCIRCUIT (V01295) (HPN 7011533-14) (ESDS) (REPL ITEM 84)		1
R	85	CD54HC20F			.MICROCIRCUIT (V02735) (HPN 7011533-20) (ESDS) (REPL BY ITEM 85A)		1
R	- 85A	SN54HC20J			.MICROCIRCUIT (V01295) (HPN 7011533-20) (ESDS) (REPL ITEM 85)		1
R	86	CD54HC30F			.MICROCIRCUIT (V02735) (HPN 7011533-30) (ESDS) (REPL BY ITEM 86A)		1
R	- 86A	7011533-30			.MICROCIRCUIT (ESDS) (REPL ITEM 86)		1
R	87	CD54HC32F			.MICROCIRCUIT (V02735) (HPN 7011533-32) (ESDS) (REPL BY ITEM 87A)		1
R	- 87A	SN54HC32J			.MICROCIRCUIT (V01295) (HPN 7011533-32) (ESDS) (REPL ITEM 87)		1
R	88	CD54HC107F			.MICROCIRCUIT (V02735) (HPN 7011533-107) (ESDS) (REPL BY ITEM 88A)		1
R	- 88A	7011533-107			.MICROCIRCUIT (ESDS) (REPL ITEM 88)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	5 89	CD54HC138F		.MICROCIRCUIT,DIGITAL DECODER/DEMULTIPLEXER 54HC138 (V02735) (HPN 7011533-138) (ESDS) (REPL BY ITEM 89A)		3
R	- 89A	SN54HC138J		.MICROCIRCUIT,DIGITAL DECODER/DEMULTIPLEXER 54HC138 (V01295) (HPN 7011533-138) (ESDS) OPT MFG PN V34371 8406201EA (REPL ITEM 89)		3
R	90	MM54HC244J		.MICROCIRCUIT,DIGITAL- HIGH SPEED CMOS DIP20 54HC244 (V27014) (HPN 7011533-244) (ESDS) (REPL BY ITEM 90A)		4
R	- 90A	CD54HC244F		.MICROCIRCUIT,DIGITAL- HIGH SPEED CMOS DIP20 54HC244 (V01295) (HPN 7011533-244) (ESDS) OPT MFG PN V01295 SNJ54HC244J (REPL ITEM 90)		4
R	91	CD54HC245J		.MICROCIRCUIT (V02735) (HPN 7011533-245) (ESDS) (REPL BY ITEM 91A)		1
R	- 91A	SN54HC245J		.MICROCIRCUIT (V01295) (HPN 7011533-245) (ESDS) (REPL ITEM 91)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	5 92	CD54HC273F		.MICROCIRCUIT (V01295) (HPN 7011533-273) (ESDS) OPT MFG PN V01295 SN54HC273J		1
R	93	CD54HC374F		.MICROCIRCUIT,DIGITAL- OCTAL D FLIP FLOP 54HC374 (V02735) (HPN 7011533-374) (ESDS) (REPL BY ITEM 93A)		1
R	- 93A	SNJ54HC374		.MICROCIRCUIT,DIGITAL- OCTAL D FLIP FLOP 54HC374 (V01295) (HPN 7011533-374) (ESDS) OPT MFG PN V01295 SN54HC374J V34371 8407101RA V01295 SNJ54HC374J (REPL ITEM 93)		1
R	94	CD54HCU04F		.MICROCIRCUIT,DIGITAL- (V02735) (HPN 7011533-804) (ESDS) (REPL BY ITEM 94A)		1
R	- 94A	SN54HCU04J		.MICROCIRCUIT,DIGITAL- (V01295) (HPN 7011533-804) (ESDS) (REPL ITEM 94)		1
R	95	MC54C4040J		.MICROCIRCUIT (V04713) (HPN 7007355-440) (ESDS) (REPL BY ITEM 95A)		1

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	5 - 95A	CD54HC4040F		.MICROCIRCUIT (V01295) (HPN 7007355-440) (ESDS) OPT MFG PN V01295 SN74HC4040N V01295 SN54HC4040J V01295 CD74HC4040E (REPL ITEM 95)		1
R	96	CD54HCT244F		.MICROCIRCUIT,DIGITAL- OCTAL BUFFER 54HCT244 (V34371) (HPN 7017509-244) (ESDS) OPT MFG PN V01295 SN54HCT244J		1
R	97	MM54HCT245J		.MICROCIRCUIT,DIGITAL- OCTAL BUS TRANSCEIVERS (V27014) (HPN 7017509-245) (ESDS) (REPL BY ITEM 97A)		1
R	- 97A	SNJ54HCT245J		.MICROCIRCUIT,DIGITAL- OCTAL BUS TRANSCEIVERS (V01295) (HPN 7017509-245) (ESDS) OPT MFG PN V01295 SN54HCT245J (REPL ITEM 97)		1
	98	MM54HCT373J		.MICROCIRCUIT,DIGITAL- OCTAL D-TYPE 54HCT373 (V27014) (HPN 7017509-373) (ESDS)		2

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	5 99	MC1489L		.MICROCIRCUIT, LINEAR- LINE RECEIVER (V04713) (HPN 7007757-489) (ESDS) OPT MFG PN V27014 DS1489J		1
	100	CP82C59A		.MICROCIRCUIT, DIGITAL- PROGRAMMABLE INTERRUPT CONTROLLER (V34371) (HPN 7009789-708) (ESDS)		1
R	102	SRM20256C12		.MICROCIRCUIT, DIGITAL- STATIC RAM (V0FB81) (HPN 7500347-120) (ESDS) (REPL BY ITEM 102A)		2
R	-102A	UPD43256BCZ70L		.MICROCIRCUIT, DIGITAL- STATIC RAM (V33297) TRUE PN IS UPD43256BCZ-70L (HPN 7500347-120) (ESDS) (REPL ITEM 102)		2
	103	CP82C52		.MICROCIRCUIT, DIGITAL- CMOS UART (V34371) (HPN 7500364-52) (ESDS)		1
R	104	IP80C88-2		.MICROCIRCUIT (V34371) (HPN 7500368-8) (ESDS) OPT MFG PN VON2P9 MSM80C88A2 VON2P9 MSM80C88RS2		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	5 105	P82C54-2		.MICROCIRCUIT (V34649) (HPN 7500369-270) (ESDS) (REPL BY ITEM 105A)		1
R	-105A	CP82C54-10		.MICROCIRCUIT (V34371) (HPN 7500369-270) (ESDS) (REPL ITEM 105)		1
R	106	A214-18		.CRYSTAL UNIT,QUARTZ 3.072 MHZ HC43U (V71034) (HPN 7500279-18) OPT MFG PN V56187 33070-001		1
R	107	A214-20		.CRYSTAL UNIT,QUARTZ 24 MHZ HC43U (V71034) (HPN 7500279-20) OPT MFG PN V0S4G1 33100-001		1
R	108	RW69V470		.RESISTOR, FIXED, WIRE WOUND 47 OHMS $\pm 10\%$ 3 W (V91637) (HPN 337708-65)		1
R	109	7511489-105		.MICROCIRCUIT- RTIU CPU (ESDS) (PROGRAMMED)	A	1
R	-109A	7011882-250		..MICROCIRCUIT, DIGITAL- EPROM (ESDS) (UNPROGRAMMED)	A	1
R	110	7511489-106		.MICROCIRCUIT- RTIU CPU (ESDS) (PROGRAMMED) (PRE SB 7511400-34-5)	B	1

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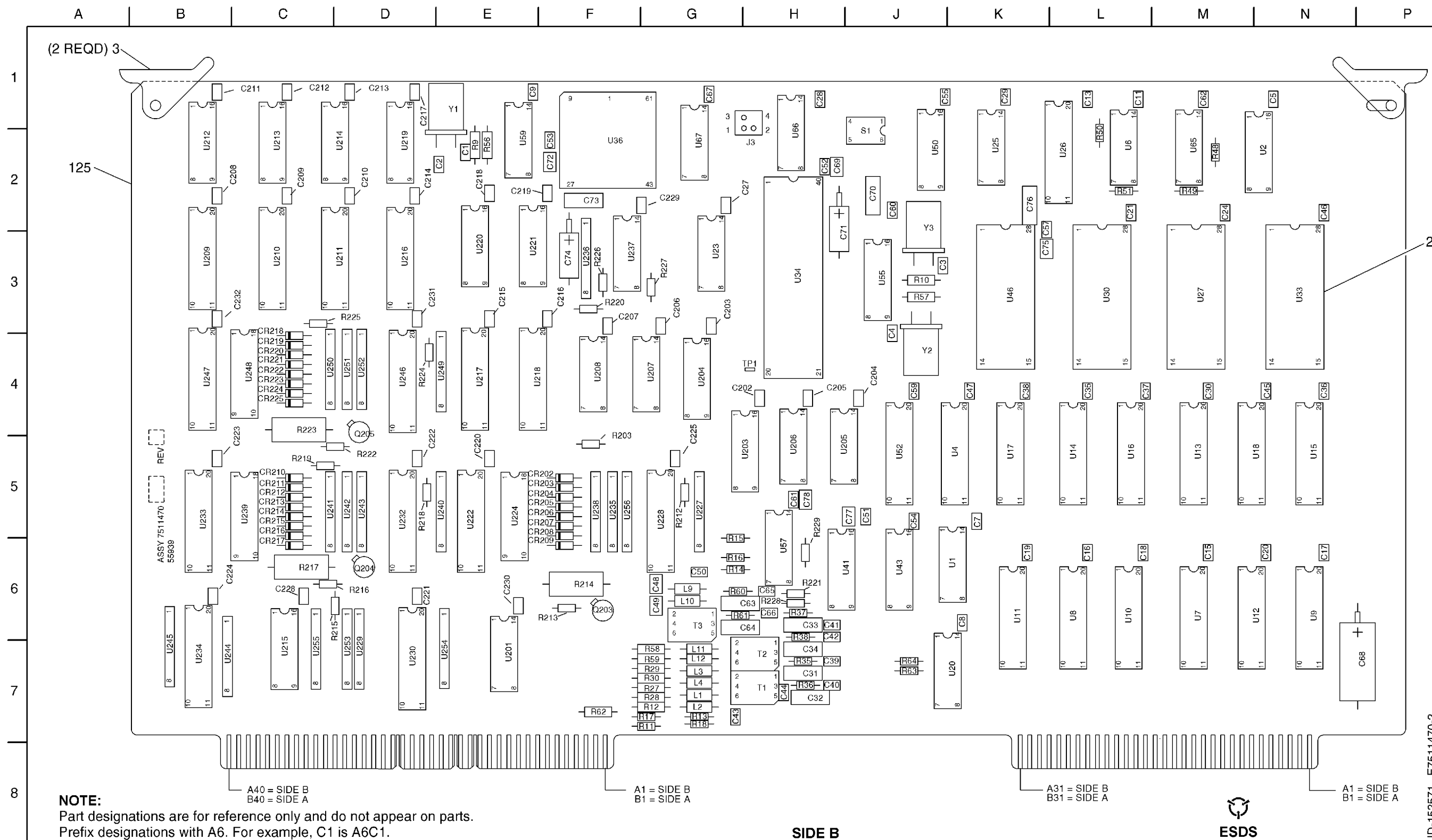
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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	5 -110A	7511489-107		.MICROCIRCUIT- RTIU CPU (ESDS) (PROGRAMMED) (POST SB 7511400-34-5)	B	1
R	-110B	7011882-250		..MICROCIRCUIT,DIGITAL- EPROM (ESDS) (UNPROGRAMMED)	B	1
R	115	7511481		.PRINTED WIRING BOARD (RELOCATED FROM ITEM 1A)		1

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<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
			USABLE ON CODES CODE A 7511470-901 USED ON 7511400-901 CODE B 7511470-902 USED ON 7511400-902		
6 - 1	7511470-901		CIRCUIT CARD ASSEMBLY- RSB/RCB/STRAP (ESDS) (A6) (SEE FIG. 1 ITEM 16 FOR NHA)	A	RF
R - 1A	7511470-902		CIRCUIT CARD ASSEMBLY- RSB/RCB/STRAP (ESDS) (A6) (SEE FIG. 1 ITEM 26 FOR NHA)	B	RF
R 2	DS628-01TT		.SOCKET (V61638) (HPN 3718661-103) (SEE FIG. 5 ITEM 2 FOR OPT MFG PN)		1
R 3	HA9PKG4		.EJECTOR (V82893) (HPN 3719221-1) (SEE FIG. 2 ITEM 2 FOR OPT MFG PN)		2
R 4	76046-001		.TERMINAL (V22526) (HPN 7500033-1) (REPL BY ITEM 4A)		1
R - 4A	008-0096-14		.TERMINAL (V79963) (HPN 7500033-1) (REPL ITEM 4)		1
R 51	M39003-01-2301		.CAPACITOR,ELECTROLYTIC 100 UF $\pm$ 10% 20 VDCW (HPN 2503220-38)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	6 52	K102J20COGFVBWA		.CAPACITOR,DIELECTRIC 1000 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-102) OPT MFG PN V51406 RPE121COG102J50 V04222 SR201A102JAA		2
R	53	K271J15COGFVAWA		.CAPACITOR,DIELECTRIC 270 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-271) OPT MFG PN V51406 RPE110COG271J50 V04222 SR151A271JAA		1
R	54	K680J15COGFVAWA		.CAPACITOR,DIELECTRIC 68 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-680) (SEE FIG. 5 ITEM 56 FOR OPT MFG PN)		12
R	55	CW15C103K		.CAPACITOR,CERAMIC 0.01 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-103) (SEE FIG. 5 ITEM 57 FOR OPT MFG PN)		65
R	56	CW20C104K		.CAPACITOR,CERAMIC 0.1 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-104) (SEE FIG. 5 ITEM 58 FOR OPT MFG PN)		5
R	57	CW40C474K		.CAPACITOR,CERAMIC 0.47 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-474) OPT MFG PN V04222 SR305C474KAA V51406 RPE113X7R474K50		6
R	58	JAN1N4148-1		.DIODE (V14552) (HPN 2503517-101) (ESDS)		24

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	6 59	929665-08-02			.HEADER (V63878) (HPN 7009600-304) (REPL BY ITEM 59A)		1
R	- 59A	CAD04-23B63			.HEADER (V52072) TRUE PN IS CAD-04-23B-63 (HPN 7009600-304) (REPL ITEM 59)		1
R	60	1025-034			.COIL,RF 3.90 UH $\pm 10\%$ (V99800) (HPN 2503896-34)		2
R	61	4446-2F			.COIL,RF 6.8 UH $\pm 1\%$ (V59474) (HPN 7004891-3) (REPL BY ITEM 61A)		6
R	- 61A	IM26-8UPMF			.COIL,RF 6.8 UH $\pm 1\%$ (V09969) TRUE PN IS IM-26.8UH1% (HPN 7004891-3) (REPL ITEM 61)		6
R	63	JAN2N2222A			.TRANSISTOR (HPN 4002240-202) (ESDS) (REPL BY ITEM 63A)		3
R	- 63A	4002240-202			.TRANSISTOR (ESDS) (HPN 4002240-102 MAY BE SUBST) (REPL ITEM 63)		3
	64	M39003-01-2289			.CAPACITOR,ELECTROLYTIC 15 UF $\pm 10\%$ 20 VDCW (HPN 2503220-31)		2
R	65	NA4-30-1PMD			.RESISTOR,FILM 30.1 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-246) (REPL BY ITEM 65A)		6

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	6 - 65A	CMF5530R1DT1			.RESISTOR,FILM 30.1 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-5530R1DT-1 (HPN 2500169-246) OPT MFG PN V91637 RN55E30R1B V91637 RN55C30R1B V91637 RN55C30R1D (REPL ITEM 65)		6
R	66	NA4-133PMD			.RESISTOR,FILM 133 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-308) (REPL BY ITEM 66A)		1
R	- 66A	CMF551330DT1			.RESISTOR,FILM 133 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-551330DT-1 (HPN 2500169-308) (REPL ITEM 66)		1
R	67	NA4-143PMD			.RESISTOR,FILM 143 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-311) (REPL BY ITEM 67A)		1
R	- 67A	CMF551430DT1			.RESISTOR,FILM 143 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-551430DT-1 (HPN 2500169-311) (REPL ITEM 67)		1
R	68	NA4-205PMD			.RESISTOR,FILM 205 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-326) (REPL BY ITEM 68A)		1

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	6 - 68A	CMF552050DT1			.RESISTOR,FILM 205 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-552050DT-1 (HPN 2500169-326) (REPL ITEM 68)		1
R	69	76PSB04S			.SWITCH,DIP (V81073) (HPN 3719206-1)		1
R	70	NA4-1-000PMD			.RESISTOR,FILM 1 MEGO $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-680) (REPL BY ITEM 70A)		2
R	- 70A	CMF551004DT1			.RESISTOR,FILM 1 MEGO $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-551004DT-1 (HPN 2500169-680) OPT MFG PN V91637 RN55C1004B (REPL ITEM 70)		2
R	71	FRJ55			.RESISTOR,ZERO-OHM (V91637) (HPN 7005517-2) OPT MFG PN V59124 Z25 V91637 OMA0207		1
R	72	RD2S1KG			.RESISTOR,FILM 1000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-102) (REPL BY ITEM 72A)		3
R	- 72A	RDS21KG			.RESISTOR,FILM 1000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-102) (REPL ITEM 72)		3

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Fig. Item	Part Number	Airline Stock No.	1234567 Nomenclature	Eff Code	Units Per Assy
6 73	RD2S10KG		.RESISTOR,CARBON FILM 10,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-103)		2
74	RD2S100KG		.RESISTOR,CARBON FILM 0.100 MEG $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-104)		2
75	RD2S2KG		.RESISTOR,CARBON FILM 2000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-202)		6
76	RD2S22KG		.RESISTOR,CARBON FILM 22,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-223)		9
77	RD2S33KG		.RESISTOR,CARBON FILM 33,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-333)		3
78	RD2S430G		.RESISTOR,CARBON FILM 430 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-431)		1
79	RD2S620G		.RESISTOR,CARBON FILM 620 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-621)		2
80	RD2S68KG		.RESISTOR,CARBON FILM 68,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-683)		3
R 81	4608X1-104		.RESISTOR,NETWORK (V32997) (HPN 7000102-96) (REPL BY ITEM 81A)		1
R - 81A	MSP08A011003F		.RESISTOR,NETWORK (V56845) (HPN 7000102-96) (SEE FIG. 5 ITEM 81A FOR OPT MFG PN) (REPL ITEM 81)		1

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<u>Fig. Item</u>		<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
6	82	1ZUHE		.TRANSFORMER,PULSE (V90095) (HPN 7005570) (ESDS)		3
R	83	4608X1-472		.RESISTOR,NETWORK (V32997) (HPN 7000102-80) (REPL BY ITEM 83A)		1
R	- 83A	MSP08A014701F		.RESISTOR,NETWORK (V56845) (HPN 7000102-80) OPT MFG PN V56845 7000102-80 V56845 MSP08A014701FS318 V11236 750-81R4-7K (REPL ITEM 83)		1
R	84	4608X102-221		.RESISTOR,NETWORK (V32997) (HPN 7000102-219) (REPL BY ITEM 84A)		3
R	- 84A	MSP08A032200F		.RESISTOR,NETWORK (V56845) (HPN 7000102-219) OPT MFG PN V11236 750-83R220 V56845 MSP08A032200FS319 (REPL ITEM 84)		3
R	85	4608X1-333		.RESISTOR NETWORK 33,000 OHMS $\pm 2\%$ 1 W (V32997) (HPN 7000102-90) (REPL BY ITEM 85A)		3
R	- 85A	MSP08A013302F		.RESISTOR NETWORK 33,000 OHMS $\pm 2\%$ 1 W (V56845) (HPN 7000102-90) OPT MFG PN V56845 MSP08A013302FS318 V11236 750-81R33K (REPL ITEM 85)		3

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	6 86	4608X1-683		.RESISTOR NETWORK 68,000 OHMS $\pm 2\%$ 1 W (V32997) (HPN 7000102-94) (REPL BY ITEM 86A)		3
R	- 86A	MSP08A016802F		.RESISTOR NETWORK 68,000 OHMS $\pm 2\%$ 1 W (V56845) (HPN 7000102-94) OPT MFG PN V56845 MSP08A016802FS318 V11236 750-81R68K (REPL ITEM 86)		3
R	87	4608X102-103		.RESISTOR NETWORK 10,000 OHMS $\pm 2\%$ 1/8 W (V32997) (HPN 7000102-240) (REPL BY ITEM 87A)		2
R	- 87A	7000102-240		.RESISTOR NETWORK 10,000 OHMS $\pm 2\%$ 1/8 W (V56845 PN MSP08A031002FS319) (SEE FIG. 5 ITEM 83A FOR OPT MFG PN) (REPL ITEM 87)		2
R	88	4608X102-114		.RESISTOR NETWORK 110,000 OHMS $\pm 2\%$ 1 W (V32997) (HPN 7000102-253) (REPL BY ITEM 88A)		6
R	- 88A	MSP08A031103F		.RESISTOR NETWORK 110,000 OHMS $\pm 2\%$ 1 W (V56845) (HPN 7000102-253) OPT MFG PN V56845 7000102-253 V11236 750-83R110K V56845 MSP08A031103FS319 (REPL ITEM 88)		6

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	6 89	AM26LS31DM		.MICROCIRCUIT (V34355) (HPN 7003147-31) (ESDS) (REPL BY ITEM 89A)		1
R	- 89A	DS26LS31MJ883		.MICROCIRCUIT (V27014) TRUE PN IS DS26LS31MJ/883 (HPN 7003147-31) (ESDS) (REPL ITEM 89)		1
R	90	AM26LS34DM		.MICROCIRCUIT (V34335) (HPN 7005957-34) (ESDS) (REPL BY ITEM 90A)		1
R	- 90A	AM26LS34BEA		.MICROCIRCUIT (V34335) (HPN 7005957-34) (ESDS) OPT MFG PN V34335 AM26LS34DE V34335 AM26LS34DM V34335 AM26LS34DMB (REPL ITEM 90)		1
R	91	ULN2803A		.MICROCIRCUIT (VOCVK3) (HPN 7008851-803) (ESDS) OPT MFG PN V34333 SG2803N		3
R	92	7011533-4		.MICROCIRCUIT (ESDS) (REPL BY ITEM 92A)		2
R	- 92A	SN54HC04J		.MICROCIRCUIT (V01295) (HPN 7011533-4) (ESDS) (REPL ITEM 92)		2

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<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
6 93	RD2S3-3KG		.RESISTOR,CARBON FILM 3300 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-332)		2
R 94	CD54HC20F		.MICROCIRCUIT (V02735) (HPN 7011533-20) (ESDS) (REPL BY ITEM 94A)		1
R - 94A	SN54HC20J		.MICROCIRCUIT (V01295) (HPN 7011533-20) (ESDS) (REPL ITEM 94)		1
95	RD2S4-7KG		.RESISTOR,CARBON FILM 4700 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-472)		2
R 96	CD54HC32F		.MICROCIRCUIT (V02735) (HPN 7011533-32) (ESDS) (REPL BY ITEM 96A)		6
R - 96A	SN54HC32J		.MICROCIRCUIT (V01295) (HPN 7011533-32) (ESDS) (REPL ITEM 96)		6
R 97	CD54HC74F		.MICROCIRCUIT (V02735) (HPN 7011533-74) (ESDS) (REPL BY ITEM 97A)		1
R - 97A	SN54HC74J		.MICROCIRCUIT (V01295) (HPN 7011533-74) (ESDS) (REPL ITEM 97)		1
R 98	CD54HC86F		.MICROCIRCUIT (V02735) (HPN 7011533-86) (ESDS) (REPL BY ITEM 98A)		2

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Radio Test Interface Unit / Part No. 7511400

	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	6 - 98A	SN54HC86J		.MICROCIRCUIT (V01295) (HPN 7011533-86) (ESDS) (REPL ITEM 98)		2
R	99	CD54HC125F		.MICROCIRCUIT (V02735) (HPN 7011533-125) (ESDS) (REPL BY ITEM 99A)		1
R	- 99A	SN54HC125J		.MICROCIRCUIT (V01295) (HPN 7011533-125) (ESDS) (REPL ITEM 99)		1
R	100	CD54HC138F		.MICROCIRCUIT,DIGITAL DECODER/DEMULPLEXER 54HC138 (V02735) (HPN 7011533-138) (ESDS) (REPL BY ITEM 100A)		4
R	-100A	SN54HC138J		.MICROCIRCUIT,DIGITAL DECODER/DEMULPLEXER 54HC138 (V01295) (HPN 7011533-138) (ESDS) (SEE FIG. 5 ITEM 89A FOR OPT MFG PN) (REPL ITEM 100)		4
R	101	CD54HC175F		.MICROCIRCUIT (V02735) (HPN 7011533-165) (ESDS) (REPL BY ITEM 101A)		6
R	-101A	SN54HC165J		.MICROCIRCUIT (V01295) (HPN 7011533-165) (ESDS) (REPL ITEM 101)		6

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	6 102	CD54HC175F		.MICROCIRCUIT,DIGITAL- QUAD D FLIP FLOP 54HC175 (V02735) (HPN 7011533-175) (ESDS) (REPL BY ITEM 102A)		1
R	-102A	8408901EA		.MICROCIRCUIT,DIGITAL- QUAD D FLIP FLOP 54HC175 (V34371) (HPN 7011533-175) (ESDS) OPT MFG PN V01295 SN54HC175J (REPL ITEM 102)		1
R	103	MM54HC244J		.MICROCIRCUIT,DIGITAL- HIGH SPEED CMOS DIP20 54HC244 (V27014) (HPN 7011533-244) (ESDS) (REPL BY ITEM 103A)		5
R	-103A	CD54HC244F		.MICROCIRCUIT,DIGITAL- HIGH SPEED CMOS DIP20 54HC244 (V01295) (HPN 7011533-244) (ESDS) (SEE FIG. 5 ITEM 90A FOR OPT MFG PN) (REPL ITEM 103)		5
R	104	CD54HC245J		.MICROCIRCUIT (V02735) (HPN 7011533-245) (ESDS) (REPL BY ITEM 104A)		12
R	-104A	SN54HC245J		.MICROCIRCUIT (V01295) (HPN 7011533-245) (ESDS) (REPL ITEM 104)		12

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	6 105	CD54HC374F		.MICROCIRCUIT,DIGITAL- OCTAL D FLIP FLOP 54HC374 (V02735) (HPN 7011533-374) (ESDS) (REPL BY ITEM 105A)		10
R	-105A	SNJ54HC374		.MICROCIRCUIT,DIGITAL- OCTAL D FLIP FLOP 54HC374 (V01295) (HPN 7011533-374) (ESDS) (SEE FIG. 5 ITEM 93A FOR OPT MFG PN) (REPL ITEM 105)		10
R	106	CD54HC573F		.MICROCIRCUIT (V02735) (HPN 7011533-573) (ESDS) (REPL BY ITEM 106A)		2
R	-106A	7011533-573		.MICROCIRCUIT (ESDS) (REPL ITEM 106)		2
R	107	CD54HC00F		.MICROCIRCUIT (V02735) (HPN 7011533-999) (ESDS) (REPL BY ITEM 107A)		2
R	-107A	SNJ54HC00J		.MICROCIRCUIT (V01295) (HPN 7011533-999) (ESDS) OPT MFG PN V01295 SN54HC00J (REPL ITEM 107)		2
R	108	MC54HC4053J		.MICROCIRCUIT (V04713) (HPN 7007355-453) (ESDS) (REPL BY ITEM 108A)		1

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	6 -108A	5962-8775401EA		.MICROCIRCUIT (V01295) (HPN 7007355-453) (ESDS) OPT MFG PN V01295 CD54HC4053F (REPL ITEM 108)		1
R	110	P8344AH		.MICROCIRCUIT,DIGITAL- SERIAL COM CONTROLLER 8344 (V34649) (HPN 7012050-44) (ESDS) (REPL BY ITEM 110A)		1
R	-110A	7012050-44		.MICROCIRCUIT,DIGITAL- SERIAL COM CONTROLLER 8344 (ESDS) (REPL ITEM 110)		1
R	111	100184		.MICROCIRCUIT (V34371) (HPN 7500215) (ESDS) (REPL BY ITEM 111A)		1
R	-111A	06805-062		.INTEGRATED CIRCUIT- VLSI-AI/DA (V31471) (HPN 7028696) (ESDS) (REPL ITEM 111)		1
R	112	SRM20256C12		.MICROCIRCUIT,DIGITAL- STATIC RAM (V0FB81) (HPN 7500347-120) (ESDS) (REPL BY ITEM 112A)		2

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	6 -112A	UPD43256BCZ70L			.MICROCIRCUIT,DIGITAL- STATIC RAM (V33297) TRUE PN IS UPD43256BCZ-70L (HPN 7500347-120) (ESDS) (REPL ITEM 112)		2
	113	CP82C52			.MICROCIRCUIT,DIGITAL- CMOS UART (V34371) (HPN 7500364-52) (ESDS)		1
R	114	RPE113X7R105K50			.CAPACITOR,CERAMIC 1 UF $\pm 10\%$ 50 VDCW (V51406) (HPN 7500015-105) (SEE FIG. 5 ITEM 59 FOR OPT MFG PN)		3
R	115	A214-2			.CRYSTAL UNIT,QUARTZ (V71034) (HPN 7500279-2) OPT MFG PN V0S4G1 32020-001 V23875 5009-384		1
R	116	A214-9			.CRYSTAL UNIT,QUARTZ 16 MHZ HC43U (V71034) (HPN 7500279-9) OPT MFG PN V56187 32090-001		1
R	117	A229-16			.CRYSTAL UNIT,QUARTZ 10.667 MHZ HC43U (V71034) (HPN 7500279-16) OPT MFG PN V56187 32160-001		1
	118	RD2S16KG			.RESISTOR,CARBON FILM 16,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-163)		2

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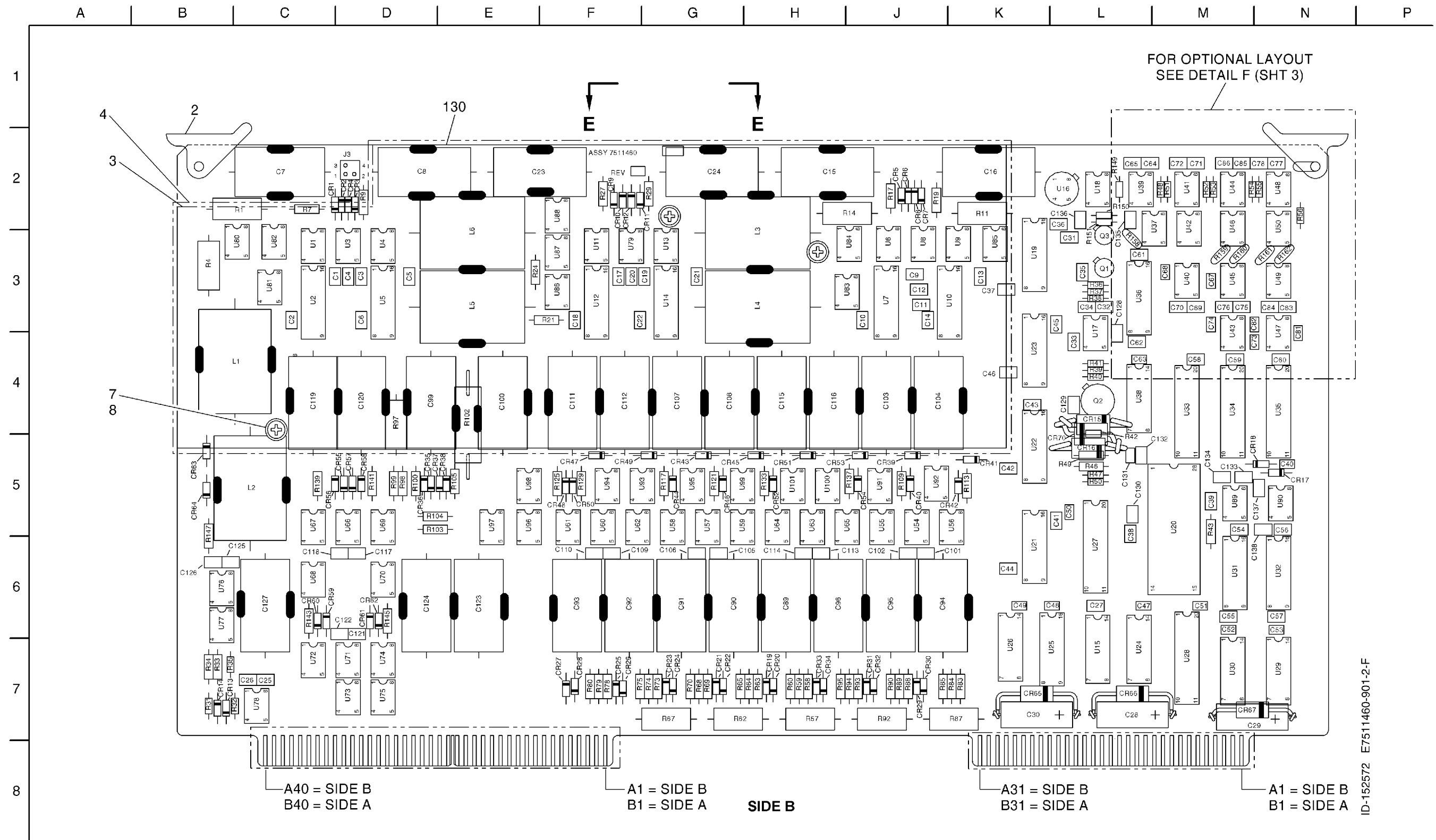
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Radio Test Interface Unit / Part No. 7511400

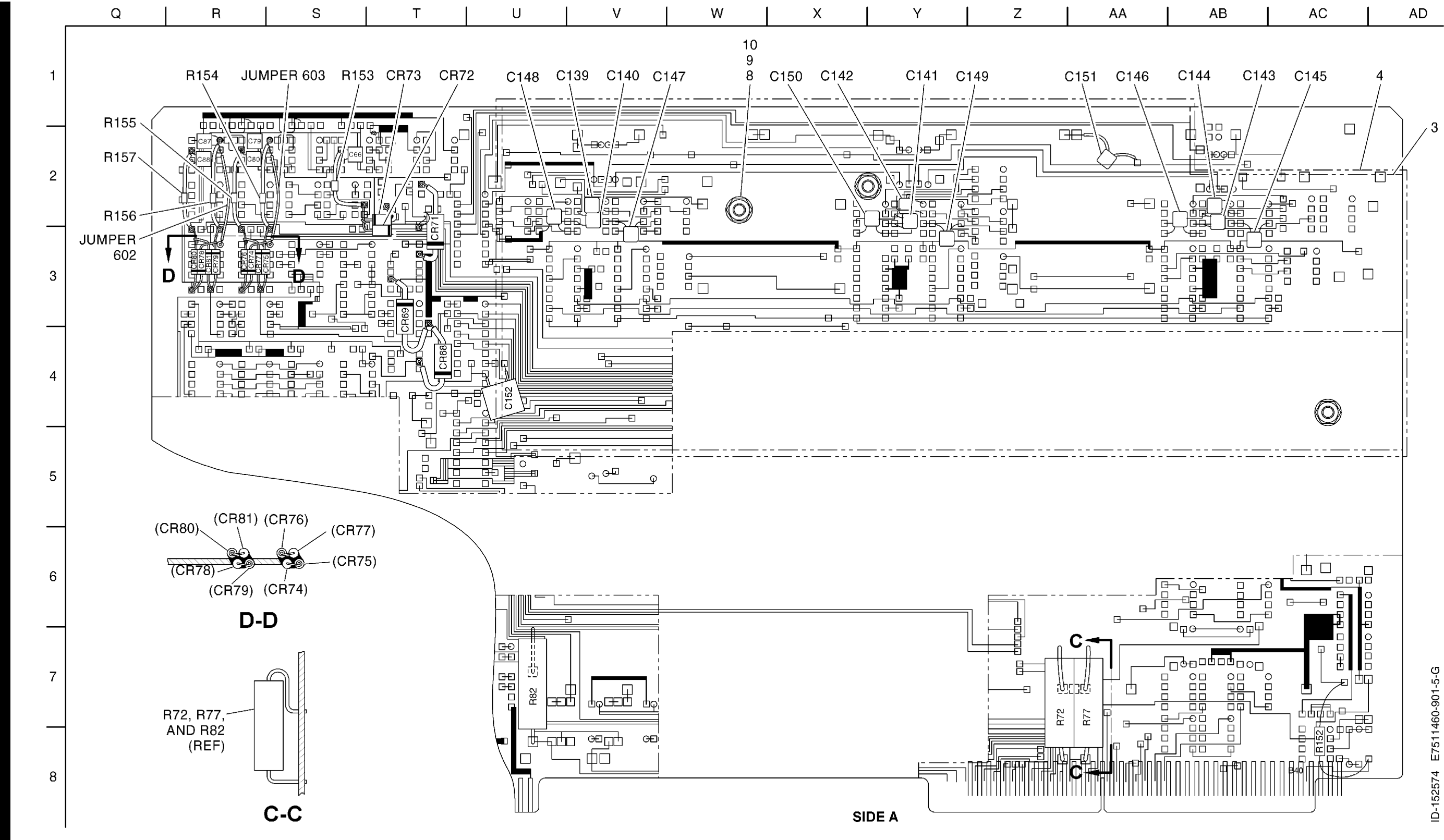
	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	6 119	RW69V1R8		.RESISTOR, FIXED, WIRE WOUND 1.8 OHMS $\pm 10\%$ 3 W (V91637) (HPN 337708-31)		3
R	120	7511479-105		.MICROCIRCUIT- RTIU RSB/RCB (ESDS) (PROGRAMMED)	A	1
R	-120A	7011882-250		..MICROCIRCUIT, DIGITAL- EPROM (ESDS) (UNPROGRAMMED)	A	1
	121	CD54HCT125F		.MICROCIRCUIT, DIGITAL- QUAD 54HCT125 (V34371) (HPN 7017509-125) (ESDS)		1
R	122	7511479-106		.MICROCIRCUIT- RTIU RSB/RCB (ESDS) (PROGRAMMED)	B	1
R	-122A	7011882-250		..MICROCIRCUIT, DIGITAL- EPROM (ESDS) (UNPROGRAMMED)	B	1
R	125	7511471		.PRINTED WIRING BOARD (RELOCATED FROM ITEM 1A)		1

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IPL Figure 7 (Sheet 1). Analog CCA A7



IPL Figure 7 (Sheet 2). Analog CCA A7



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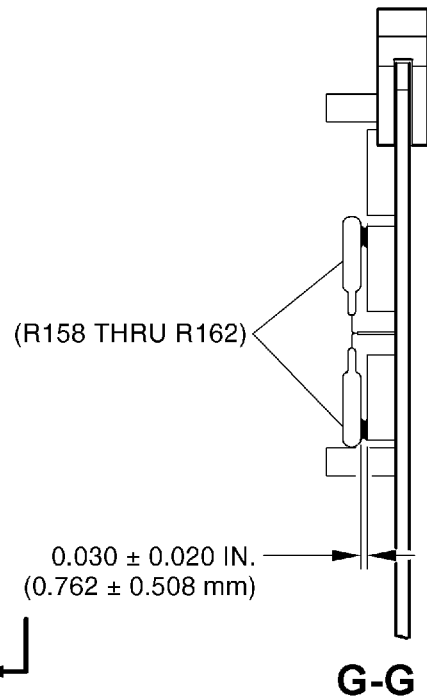
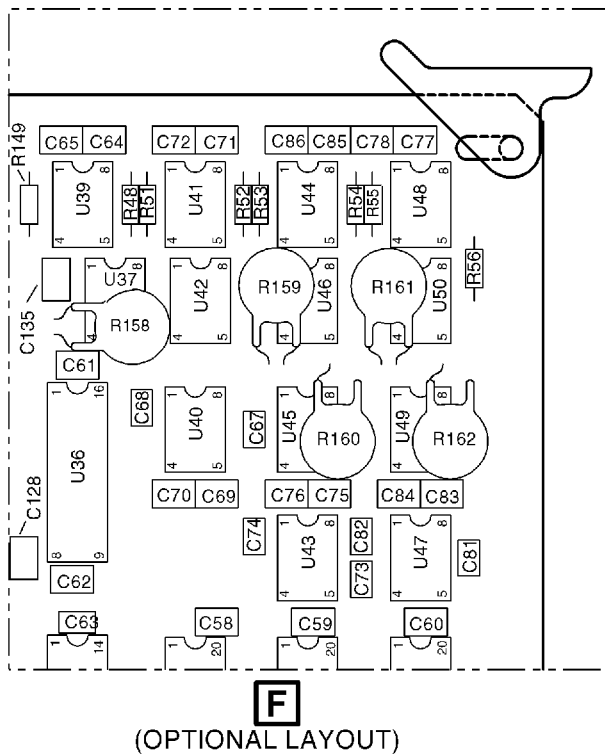
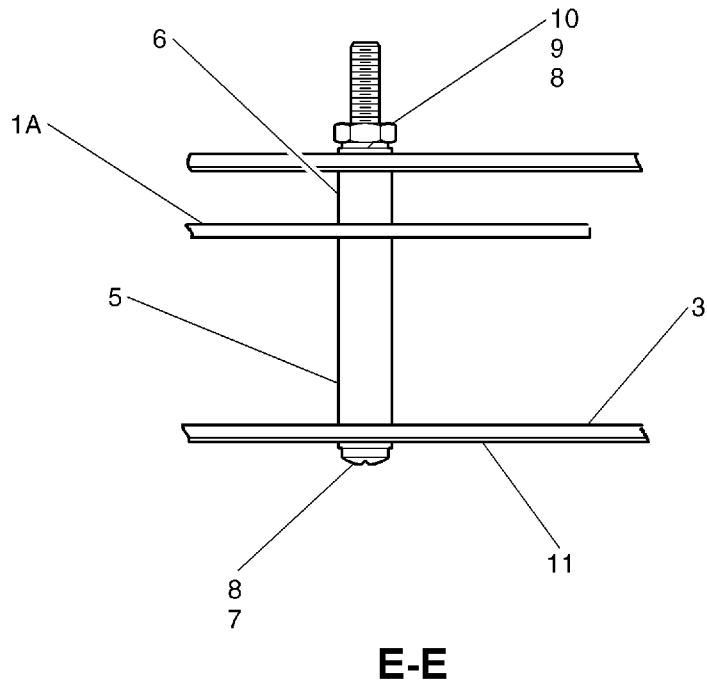
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ID-152573 E7511460-901-3-F E7511460-901-4-E

IPL Figure 7 (Sheet 3). Analog CCA A7

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	7 - 1	7511460-901		CCA-ANALOG (ESDS) (A7) (SEE FIG. 1 ITEM 17 FOR NHA)		RF
R	1A	7511461		.PRINTED WIRING BOARD (RELOCATED TO ITEM 130)		1
R	2	HA9PKG4		.EJECTOR (V82893) (HPN 3719221-1) (SEE FIG. 2 ITEM 2 FOR OPT MFG PN)		2
	3	7511467		.SHIELD		2
	4	7511468		.INSULATOR		2
R	5	9234N115		.SPACER,SLEEVE,NYLON (V1YGB8) (HPN 0934-117) OPT MFG PN V57472 19-545-517 V00141 610387-17N		3
R	6	9224-115		.SPACER (V06540) (HPN 0934-112) (REPL BY ITEM 6A)		3
R	- 6A	0934-112		.SPACER (V1YGB8) (HPN 0934-112) (REPL ITEM 6)		3
	7	2503203-7		.SCREW PNH CRES 4-40X2		3
R	8	MS15795-803		.WASHER,FLAT CRES 0.125 ID (V09772) (HPN 0770-5) (SEE FIG. 1 ITEM 7 FOR OPT MFG PN)		6
R	9	MS35338-135		.WASHER,LOCK CRES 0.124 ID (HPN 0164-5) (REPL BY ITEM 9A)		3

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	7 - 9A	0164-5		.WASHER, LOCK CRES 0.124 ID (MS35338-135 MAY BE SUBST) (REPL ITEM 9)		3
R	10	MS35649-244		.NUT HEX CRES 4-40 (HPN 0424-8)		3
R	51	SP7-505-9-5		.CAPACITOR, PLASTIC 5 UF $\pm 10\%$ 50 VDCW (V84411) TRUE PN IS SP-7-505-9-.5 (HPN 2500652-44) OPT MFG PN V01884 642PA33-44		29
	52	M39003-01-2306		.CAPACITOR, ELECTROLYTIC 22 UF $\pm 10\%$ 35 VDCW (HPN 2503220-19)		2
R	53	M39003-01-2295		.CAPACITOR, ELECTROLYTIC 100 UF $\pm 10\%$ 10 VDCW (HPN 2503220-53) (REPL BY ITEM 53A)		1
R	- 53A	M39003-01-2261		.CAPACITOR, ELECTROLYTIC 100 UF $\pm 10\%$ 10 VDCW (HPN 2503220-53) (REPL ITEM 53)		1
R	54	K101J15C0GFVAWA		.CAPACITOR, DIELECTRIC 100 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-101) (SEE FIG. 3 ITEM 3 FOR OPT MFG PN)		18
R	55	K102J20C0GFVBWA		.CAPACITOR, DIELECTRIC 1000 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-102) (SEE FIG. 6 ITEM 52 FOR OPT MFG PN)		3

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	7 56	K180J15COGFVAWA		.CAPACITOR,DIELECTRIC 18 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-180) OPT MFG PN V51406 RPE110COG180J50 V04222 SR151A180JAA		1
R	57	K222J20COGFVBWA		.CAPACITOR,DIELECTRIC 2200 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-222) OPT MFG PN V51406 RPE121COG222J50 V04222 SR201A222JAA		1
R	58	K330J15COGFVAWA		.CAPACITOR,DIELECTRIC 33 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-330) OPT MFG PN V51406 RPE110COG330J50 V04222 SR151A330JAA		4
R	59	K392J30COGFVCWA		.CAPACITOR,DIELECTRIC 3900 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-392) OPT MFG PN V51406 RPE121COG392J50 V04222 SR211A392JAA		1
R	60	K561J15COGFVAWA		.CAPACITOR,DIELECTRIC 560 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-561) OPT MFG PN V51406 RPE110COG561J50 V04222 SR201A561JAA		1
R	61	CW20C104K		.CAPACITOR,CERAMIC 0.1 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-104) (SEE FIG. 5 ITEM 58 FOR OPT MFG PN)		78

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	7 62	JAN1N4148-1		.DIODE (V14552) (HPN 2503517-101) (ESDS)		62
R	64	929665-08-02		.HEADER (V63878) (HPN 7009600-304) (REPL BY ITEM 64A)		1
R	- 64A	CAD04-23B63		.HEADER (V52072) TRUE PN IS CAD-04-23B-63 (HPN 7009600-304) (REPL ITEM 64)		1
	66	6950-55		.INDUCTOR,POWER (V04213) (HPN 7500534-2)		2
R	67	2N2907A		.TRANSISTOR (V43611) (HPN 2504649-2) (ESDS) OPT MFG PN V43611 JAN2N2907A V43611 JANTX2N2907A V43611 JANTXV2N2907A		1
R	68	JAN2N2222A		.TRANSISTOR (HPN 4002240-202) (ESDS) (REPL BY ITEM 68A)		1
R	- 68A	4002240-202		.TRANSISTOR (ESDS) (HPN 4002240-102 MAY BE SUBST) (REPL ITEM 68)		1
R	72	NA4-619PMD		.RESISTOR,FILM 619 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-372) (REPL BY ITEM 72A)		2

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	7 - 72A	CMF556190DT1			.RESISTOR,FILM 619 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-556190DT-1 (HPN 2500169-372) (REPL ITEM 72)		2
R	74	NA4-40200PMD			.RESISTOR,FILM 40,200 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-546) (REPL BY ITEM 74A)		29
R	- 74A	CMF554022DT1			.RESISTOR,FILM 40,200 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-554022DT-1 (HPN 2500169-546) OPT MFG PN V91637 RN55C4022B V91637 RN55C4022D V91637 RN55E4022B V91637 RN55E4022D (REPL ITEM 74)		29
R	75	NA4-49900PMD			.RESISTOR,FILM 49,900 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-555) (REPL BY ITEM 75A)		1

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	7 - 75A	CMF554992BT1		.RESISTOR,FILM 49,900 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-554992BT-1 (HPN 2500169-555) OPT MFG PN V91637 CMF554992DT1 V91637 CMF554992DT9 V91637 RN55C4992B V91637 RN55C4992D (REPL ITEM 75)		1
R	76	NA4-56200PMD		.RESISTOR,FILM 56,200 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-560) (REPL BY ITEM 76A)		1
R	- 76A	CMF555622DT1		.RESISTOR,FILM 56,200 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-555622DT-1 (HPN 2500169-560) OPT MFG PN V91637 CMF555622DT2 (REPL ITEM 76)		1
R	77	NA4-301000PMD		.RESISTOR,FILM 0.301 MEG $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-630) (REPL BY ITEM 77A)		1
R	- 77A	CMF553013DT1		.RESISTOR,FILM 0.301 MEG $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-553013DT-1 (HPN 2500169-630) (REPL ITEM 77)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	7 78	NA4-1-000PMD		.RESISTOR,FILM 1 MEGO $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-680) (REPL BY ITEM 78A)		3
R	- 78A	CMF551004DT1		.RESISTOR,FILM 1 MEGO $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-551004DT-1 (HPN 2500169-680) (SEE FIG. 6 ITEM 70A FOR OPT MFG PN) (REPL ITEM 78)		3
R	79	CMF55-1690T2PMB		.RESISTOR,FILM 1690 OHMS $\pm 0.1\%$ 1/8 W (V91637) (HPN 4004090-414) (REPL BY ITEM 79A)		10
R	- 79A	RN55C1691B		.RESISTOR,FILM 1690 OHMS $\pm 0.1\%$ 1/8 W (V19701) (HPN 4004090-414) OPT MFG PN V91637 RN55C1691B V24546 RN55C1691B (REPL ITEM 79)		10
R	81	ML124-8250PMB		.RESISTOR,FILM 8250 OHMS $\pm 0.1\%$ 1/8 W (V19647) (HPN 4004090-480) (REPL BY ITEM 81A)		10
R	- 81A	RN55C8251B		.RESISTOR,FILM 8250 OHMS $\pm 0.1\%$ 1/8 W (V19701) (HPN 4004090-480) OPT MFG PN V91637 RN55C8251B V24546 RN55C8251B (REPL ITEM 81)		10
R	83	7500000-101		.RESISTOR,CARBON FILM 100 OHMS $\pm 2\%$ 1/4 W (REPL BY ITEM 83A)		4

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	7 - 83A	RDS2101GT52			.RESISTOR,CARBON FILM 100 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-101) (REPL ITEM 83)		4
	84	RD2S10KG			.RESISTOR,CARBON FILM 10,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-103)		2
	85	RD2S200G			.RESISTOR,CARBON FILM 200 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-201)		1
	86	RD2S2KG			.RESISTOR,CARBON FILM 2000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-202)		3
	87	RD2S22KG			.RESISTOR,CARBON FILM 22,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-223)		6
	88	RD2S33KG			.RESISTOR,CARBON FILM 33,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-333)		1
	91	RD2S47KG			.RESISTOR,CARBON FILM 47,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-473)		5
R	93	LM111			.MICROCIRCUIT (V27014) (HPN 4009281-211) (ESDS) (REPL BY ITEM 93A)		1
R	- 93A	LM111JG			.MICROCIRCUIT (V01295) (HPN 4009281-211) (ESDS) OPT MFG PN V27014 LM111J8 (REPL ITEM 93)		1

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Radio Test Interface Unit / Part No. 7511400

	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	7 94	694-3R100KA		.RESISTOR NETWORK 100,000 OHMS $\pm 0.1\%$ 0.5 W (V73138) (HPN 7002559-102) OPT MFG PN V57027 1959-02-1003BA V56427 PRN043		46
R	95	7011533-4		.MICROCIRCUIT (ESDS) (REPL BY ITEM 95A)		1
R	- 95A	SN54HC04J		.MICROCIRCUIT (V01295) (HPN 7011533-4) (ESDS) (REPL ITEM 95)		1
R	96	CD54HC14F		.MICROCIRCUIT (V02735) (HPN 7011533-14) (ESDS) (REPL BY ITEM 96A)		1
R	- 96A	SN54HC14J		.MICROCIRCUIT (V01295) (HPN 7011533-14) (ESDS) (REPL ITEM 96)		1
R	97	CD54HC30F		.MICROCIRCUIT (V02735) (HPN 7011533-30) (ESDS) (REPL BY ITEM 97A)		1
R	- 97A	7011533-30		.MICROCIRCUIT (ESDS) (REPL ITEM 97)		1
R	98	CD54HC32F		.MICROCIRCUIT (V02735) (HPN 7011533-32) (ESDS) (REPL BY ITEM 98A)		2
R	- 98A	SN54HC32J		.MICROCIRCUIT (V01295) (HPN 7011533-32) (ESDS) (REPL ITEM 98)		2

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	7 99	CD54HC86F		.MICROCIRCUIT (V02735) (HPN 7011533-86) (ESDS) (REPL BY ITEM 99A)		1
R	- 99A	SN54HC86J		.MICROCIRCUIT (V01295) (HPN 7011533-86) (ESDS) (REPL ITEM 99)		1
R	100	CD54HC138F		.MICROCIRCUIT,DIGITAL DECODER/DEMULTIPLEXER 54HC138 (V02735) (HPN 7011533-138) (ESDS) (REPL BY ITEM 100A)		1
R	-100A	SN54HC138J		.MICROCIRCUIT,DIGITAL DECODER/DEMULTIPLEXER 54HC138 (V01295) (HPN 7011533-138) (ESDS) (SEE FIG. 5 ITEM 89A FOR OPT MFG PN) (REPL ITEM 100)		1
R	102	MC54HC4051J		.MICROCIRCUIT (V04713) (HPN 7007355-451) (ESDS) (REPL BY ITEM 102A)		4
R	-102A	MC74HC4051AN		.MICROCIRCUIT (V1MQ07) (HPN 7007355-451) (ESDS) (REPL ITEM 102)		4
R	103	MC54HC4053J		.MICROCIRCUIT (V04713) (HPN 7007355-453) (ESDS) (REPL BY ITEM 103A)		9

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	7 -103A	5962-8775401EA			.MICROCIRCUIT (V01295) (HPN 7007355-453) (ESDS) (SEE FIG. 6 ITEM 108A FOR OPT MFG PN) (REPL ITEM 103)		9
R	104	LT1013CN8			.MICROCIRCUIT OPERATIONAL AMPLIFIER (V64155) (HPN 7010859-82) (ESDS)		20
	105	AD7549KN			.MICROCIRCUIT, LINEAR- DUAL 12-BIT D/A CONVERTER (V24355) (HPN 7500152-70) (ESDS)		3
R	106	MC1500G5			.MICROCIRCUIT, LINEAR- 5-VOLT PRECISION VR (V04713) (HPN 7500177-50) (ESDS) (REPL BY ITEM 106A)		1
R	-106A	REF02AJ			.MICROCIRCUIT, LINEAR- 5-VOLT PRECISION VR (V24355) (HPN 7500177-50) (ESDS) OPT MFG PN V1ES66 REF02AJ (REPL ITEM 106)		1
	107	AD7582KN			.MICROCIRCUIT, LINEAR- CONVERTER (V24355) (HPN 7500537-70) (ESDS)		1
R	108	RW67V270			.RESISTOR, WIREWOUND 27 OHMS $\pm 10\%$ 6.5 W (V14193) (HPN 337457-59) (REPL BY ITEM 108A)		3

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	7 -108A	337457-59		.RESISTOR,WIREWOUND 27 OHMS $\pm 10\%$ 6.5 W (HPN 4005805-235 MAY BE SUBST) (REPL ITEM 108)		3
R	109	RW69V112		.RESISTOR,WIREWOUND 1200 OHMS $\pm 5\%$ 3 W (REPL BY ITEM 109A)		6
R	-109A	RW69V122		.RESISTOR,WIREWOUND 1200 OHMS $\pm 5\%$ 3 W (V91637) (HPN 337708-99) (REPL ITEM 109)		6
R	110	2N5320		.TRANSISTOR (V02735) (HPN 4021388-2) (ESDS) (REPL BY ITEM 110A)		1
R	-110A	4021388-2		.TRANSISTOR (ESDS) (HPN 3718367-200 MAY BE SUBST) (REPL ITEM 110)		1
R	111	694-3R50KA		.RESISTOR NETWORK, THIN FILM 50,000 OHMS $\pm .1\%$.50 W (V73138) (HPN 7002559-94) OPT MFG PN V56427 PRN065 V57027 1959-02-5002BA V57027 510652-002		4
R	112	CD54HC374F		.MICROCIRCUIT,DIGITAL- OCTAL D FLIP FLOP 54HC374 (V02735) (HPN 7011533-374) (ESDS) (REPL BY ITEM 112A)		2

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	7 -112A	SNJ54HC374		.MICROCIRCUIT,DIGITAL- OCTAL D FLIP FLOP 54HC374 (V01295) (HPN 7011533-374) (ESDS) (SEE FIG. 5 ITEM 93A FOR OPT MFG PN) (REPL ITEM 112)		2
R	113	CW15C103K		.CAPACITOR,CERAMIC 0.01 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-103) (SEE FIG. 5 ITEM 57 FOR OPT MFG PN)		9
	115	6950-48		.INDUCTOR,POWER (V04213) (HPN 7500534-4)		4
R	116	RW67V201		.RESISTOR,WIREWOUND 200 OHMS $\pm 5\%$ 6.5 W (V91637) (HPN 337457-80) OPT MFG PN V24681 RW67V201 V11502 RW67V201 V00213 RW67V201 V44655 RW67V201 V06416 RW67V201 V63743 RW67V201		1
R	117	RW69V121		.RESISTOR,WIREWOUND 120 OHMS $\pm 10\%$ 3 W (V91637) (HPN 337708-75)		2
R	118	RW69V181		.RESISTOR,WIREWOUND 180 OHMS $\pm 10\%$ 3 W (V91637) (HPN 337708-79)		2
R	120	1N5821		.DIODE (V14936) (HPN 7003129-821) (ESDS) OPT MFG PN V04713 1N5821		2

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	7 121	1-5KE6-8		.SEMICONDUCTOR DEVICE (V24444) (HPN 4007038-1) (ESDS) (REPL BY ITEM 121A)		5
R	-121A	1N6267ARL4		.SEMICONDUCTOR DEVICE (V1MQ07) (HPN 4007038-1) (ESDS) OPT MFG PN V14936 1-5KE6-8 (REPL ITEM 121)		5
R	122	1N5819		.DIODE (V12969) (HPN 7009216-819) (ESDS) OPT MFG PN V1MQ07 1N5819RL		10
	123	RD2S47G		.RESISTOR,CARBON FILM 47 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-470)		5
R	124	RXE050		.RESISTOR,THERMAL (V06090) (HPN 7500628-50) OPT MFG PN V80294 MFR050		5
R	125	1-5KE18A		.SEMICONDUCTOR DEVICE (V12954) TRUE PN IS 1.5KE18A (HPN 4007038-18) OPT MFG PN V14936 1-5KE18A V1MQ07 1N6277ARL4		2
R	126	K103J30COGFVCWA		.CAPACITOR,DIELECTRIC 10,000 UUF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-103) OPT MFG PN V51406 RPE113COG103J50 V04222 SR301A103JAA		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	7 127	RPE113X7R105K50		.CAPACITOR,CERAMIC 1 UF $\pm 10\%$ 50 VDCW (V51406) (HPN 7500015-105) (SEE FIG. 5 ITEM 59 FOR OPT MFG PN)		1
R	130	7511461		.PRINTED WIRING BOARD (RELOCATED FROM ITEM 1A)		1

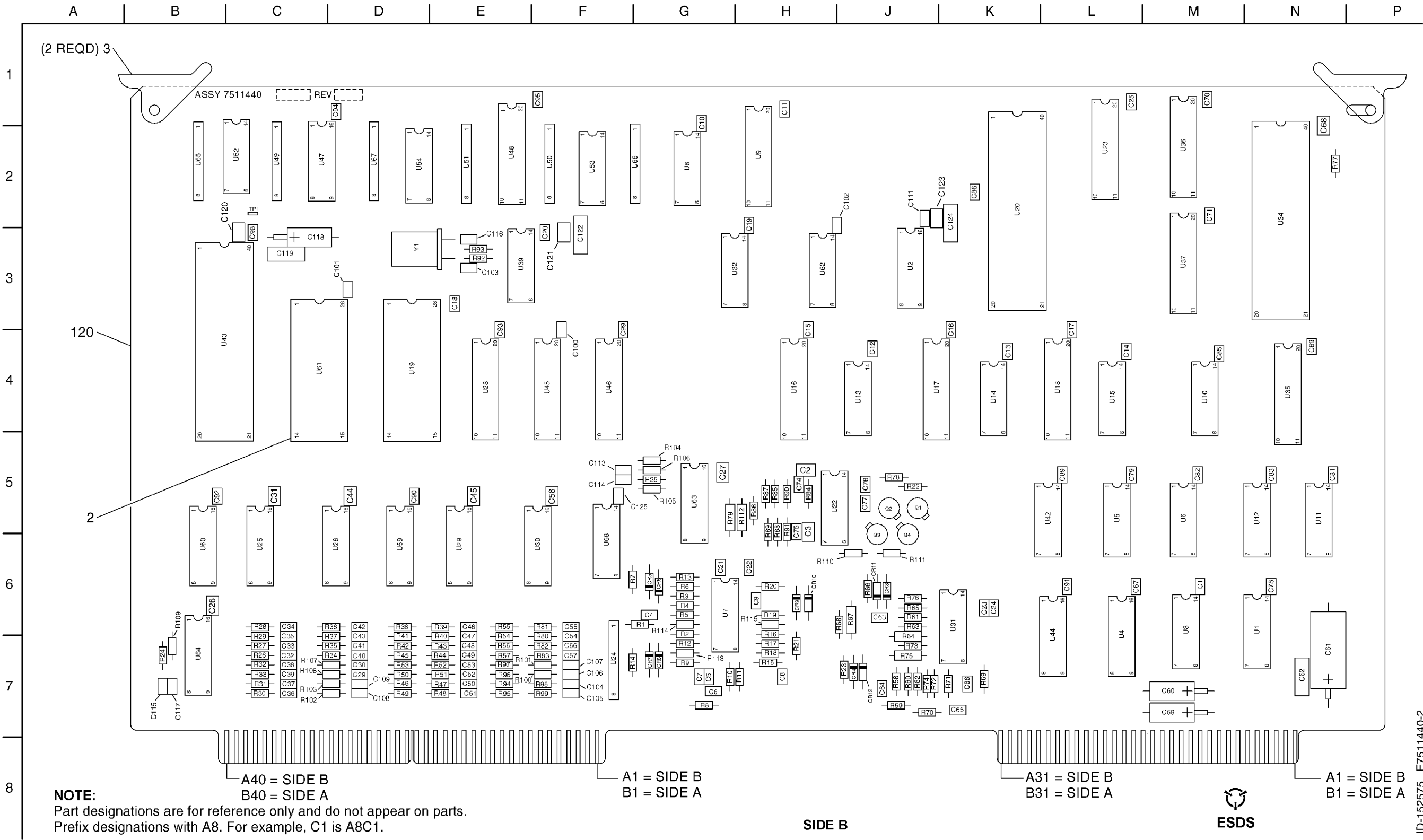
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IPL Figure 8. Serial Interface CCA A8

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<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
			USABLE ON CODES CODE A 7511440-901 USED ON 7511400-901 CODE B 7511440-902 USED ON 7511400-902		
R 8 - 1	7511440-901		CCA-SERIAL INTERFACE (ESDS) (A8) (SEE FIG. 1 ITEM 18 FOR NHA)	A	RF
R - 1A	7511440-902		CIRCUIT CARD ASSEMBLY- SERIAL INTERFACE (ESDS) (A8) (SEE FIG. 1 ITEM 28 FOR NHA)	B	RF
R 2	DS628-01TT		.SOCKET (V61638) (HPN 3718661-103) (SEE FIG. 5 ITEM 2 FOR OPT MFG PN)		1
R 3	HA9PKG4		.EJECTOR (V82893) (HPN 3719221-1) (SEE FIG. 2 ITEM 2 FOR OPT MFG PN)		2
R 4	76046-001		.TERMINAL (V22526) (HPN 7500033-1) (REPL BY ITEM 4A)		1
R - 4A	008-0096-14		.TERMINAL (V79963) (HPN 7500033-1) (REPL ITEM 4)		1
R 51	M39003-01-2301		.CAPACITOR,ELECTROLYTIC 100 UF $\pm 10\%$ 20 VDCW (HPN 2503220-38)		1
R 52	K100J15C0GFVAWA		.CAPACITOR,DIELECTRIC 10 PF ± 0.5 PF 50 VDCW (V59821) (HPN 7500014-100) OPT MFG PN V51406 RPE110C0G100D50 V04222 SR151A100JAA		2

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	8 53	K101J15COGFVAWA		.CAPACITOR,DIELECTRIC 100 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-101) (SEE FIG. 3 ITEM 3 FOR OPT MFG PN)		36
R	54	K102J20COGFVBWA		.CAPACITOR,DIELECTRIC 1000 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-102) (SEE FIG. 6 ITEM 52 FOR OPT MFG PN)		2
R	55	K181J15COGFVAWA		.CAPACITOR,DIELECTRIC 180 UUF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-181) OPT MFG PN V51406 RPE110COG181J50 V04222 SR151A181JAA		10
R	56	K680J15COGFVAWA		.CAPACITOR,DIELECTRIC 68 PF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-680) (SEE FIG. 5 ITEM 56 FOR OPT MFG PN)		2
R	57	CW15C103K		.CAPACITOR,CERAMIC 0.01 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-103) (SEE FIG. 5 ITEM 57 FOR OPT MFG PN)		44
R	58	CW20C104K		.CAPACITOR,CERAMIC 0.1 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-104) (SEE FIG. 5 ITEM 58 FOR OPT MFG PN)		10
R	59	JAN1N4148-1		.DIODE (V14552) (HPN 2503517-101) (ESDS)		10

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	8 61	2N2907A		.TRANSISTOR (V43611) (HPN 2504649-2) (ESDS) (SEE FIG. 7 ITEM 67 FOR OPT MFG PN)		2
R	62	JAN2N2222A		.TRANSISTOR (HPN 4002240-202) (ESDS) (REPL BY ITEM 62A)		2
R	- 62A	4002240-202		.TRANSISTOR (ESDS) (HPN 4002240-102 MAY BE SUBST) (REPL ITEM 62)		2
R	63	NA4-36-5PMD		.RESISTOR,FILM 36.5 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-254) (REPL BY ITEM 63A)		2
R	- 63A	CMF5536R5DT1		.RESISTOR,FILM 36.5 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-5536R5DT-1 (HPN 2500169-254) (REPL ITEM 63)		2
R	64	NA4-634PMD		.RESISTOR,FILM 634 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-373) (REPL BY ITEM 64A)		1
R	- 64A	CMF556340DT1		.RESISTOR,FILM 634 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-556340DT-1 (HPN 2500169-373) (REPL ITEM 64)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	8 65	NA4-1-000PMD		.RESISTOR,FILM 1 MEGO $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-680) (REPL BY ITEM 65A)		2
R	- 65A	CMF551004DT1		.RESISTOR,FILM 1 MEGO $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-551004DT-1 (HPN 2500169-680) (SEE FIG. 6 ITEM 70A FOR OPT MFG PN) (REPL ITEM 65)		2
R	66	RD2S10G		.RESISTOR,CARBON FILM 10 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-100) (REPL BY ITEM 66A)		4
R	- 66A	RDS2100GT52		.RESISTOR,CARBON FILM 10 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-100) (REPL ITEM 66)		4
R	67	7500000-101		.RESISTOR,CARBON FILM 100 OHMS $\pm 2\%$ 1/4 W (REPL BY ITEM 67A)		1
R	- 67A	RDS2101GT52		.RESISTOR,CARBON FILM 100 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-101) (REPL ITEM 67)		1
	68	RD2S10KG		.RESISTOR,CARBON FILM 10,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-103)		20
	69	RD2S100KG		.RESISTOR,CARBON FILM 0.100 MEGO $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-104)		11

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<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
8 70	RD2S3-3KG		.RESISTOR,CARBON FILM 3300 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-332)		6
71	RD2S200G		.RESISTOR,CARBON FILM 200 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-201)		1
72	RD2S20KG		.RESISTOR,CARBON FILM 20,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-203)		7
73	RD2S200KG		.RESISTOR,CARBON FILM 200,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-204)		1
74	RD2S220G		.RESISTOR,CARBON FILM 220 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-221)		18
75	RD2S2-2KG		.RESISTOR,CARBON FILM 2200 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-222)		6
76	RD2S3KG		.RESISTOR,CARBON FILM 3000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-302)		2
77	RD2S4-7KG		.RESISTOR,CARBON FILM 4700 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-472)		3
78	RD2S47KG		.RESISTOR,CARBON FILM 47,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-473)		6
R 79	4039510-901		.MICROCIRCUIT (ESDS) (HPN 4089030-400 MAY BE SUBST)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	8 80	4039511-901		.MICROCIRCUIT (ESDS) (HPN 4089031-400 MAY BE SUBST)		1
R	81	4608X102-221		.RESISTOR, NETWORK (V32997) (HPN 7000102-219) (REPL BY ITEM 81A)		4
R	- 81A	MSP08A032200F		.RESISTOR, NETWORK (V56845) (HPN 7000102-219) (SEE FIG. 6 ITEM 84A FOR OPT MFG PN) (REPL ITEM 81)		4
R	82	4608X102-512		.RESISTOR NETWORK 5100 OHMS $\pm 2\%$ 1 W (V32997) (HPN 7000102-237) (REPL BY ITEM 82A)		3
R	- 82A	MSP08A035101F		.RESISTOR NETWORK 5100 OHMS $\pm 2\%$ 1 W (V56845) (HPN 7000102-237) OPT MFG PN V11236 750-83R5-1K V56845 MSP08A035101FS319 (REPL ITEM 82)		3
R	83	LM139D		.MICROCIRCUIT (V34335) (HPN 7000780-139) (ESDS) OPT MFG PN V18324 LM139BCA V04713 LM139J V27014 LM139J V07933 LM139J V18324 LM139F883C V01295 LM139J		2
R	84	AM26LS32DM		.MICROCIRCUIT (V34355) (HPN 7003123-32) (ESDS) (REPL BY ITEM 84A)		3

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	8 - 84A	AM26LS32AMJ			.MICROCIRCUIT (V01295) (HPN 7003123-32) (ESDS) OPT MFG PN V01295 AM26LS32ACN (REPL ITEM 84)		3
R	85	AM26LS31DM			.MICROCIRCUIT (V34355) (HPN 7003147-31) (ESDS) (REPL BY ITEM 85A)		3
R	- 85A	DS26LS31MJ883			.MICROCIRCUIT (V27014) TRUE PN IS DS26LS31MJ/883 (HPN 7003147-31) (ESDS) (REPL ITEM 85)		3
R	86	TL084MJ			.MICROCIRCUIT (V01295) (HPN 7005997-484) (ESDS)		1
R	87	7011533-4			.MICROCIRCUIT (ESDS) (REPL BY ITEM 87A)		3
R	- 87A	SN54HC04J			.MICROCIRCUIT (V01295) (HPN 7011533-4) (ESDS) (REPL ITEM 87)		3
R	88	CD54HC30F			.MICROCIRCUIT (V02735) (HPN 7011533-30) (ESDS) (REPL BY ITEM 88A)		1
R	- 88A	7011533-30			.MICROCIRCUIT (ESDS) (REPL ITEM 88)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	8 89	CD54HC32F		.MICROCIRCUIT (V02735) (HPN 7011533-32) (ESDS) (REPL BY ITEM 89A)		4
R	- 89A	SN54HC32J		.MICROCIRCUIT (V01295) (HPN 7011533-32) (ESDS) (REPL ITEM 89)		4
R	90	CD54HC74F		.MICROCIRCUIT (V02735) (HPN 7011533-74) (ESDS) (REPL BY ITEM 90A)		3
R	- 90A	SN54HC74J		.MICROCIRCUIT (V01295) (HPN 7011533-74) (ESDS) (REPL ITEM 90)		3
R	91	CD54HC138F		.MICROCIRCUIT,DIGITAL DECODER/DEMULTIPLEXER 54HC138 (V02735) (HPN 7011533-138) (ESDS) (REPL BY ITEM 91A)		2
R	- 91A	SN54HC138J		.MICROCIRCUIT,DIGITAL DECODER/DEMULTIPLEXER 54HC138 (V01295) (HPN 7011533-138) (ESDS) (SEE FIG. 5 ITEM 89A FOR OPT MFG PN) (REPL ITEM 91)		2
R	93	CD54HC165F		.MICROCIRCUIT (V02735) (HPN 7011533-164) (ESDS) (REPL BY ITEM 93A)		4

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Radio Test Interface Unit / Part No. 7511400

	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	8 - 93A	SN54HC164J			.MICROCIRCUIT (V01295) (HPN 7011533-164) (ESDS) (REPL ITEM 93)		4
R	94	CD54HC175F			.MICROCIRCUIT,DIGITAL- QUAD D FLIP FLOP 54HC175 (V02735) (HPN 7011533-175) (ESDS) (REPL BY ITEM 94A)		1
R	- 94A	8408901EA			.MICROCIRCUIT,DIGITAL- QUAD D FLIP FLOP 54HC175 (V34371) (HPN 7011533-175) (ESDS) (SEE FIG. 6 ITEM 102A FOR OPT MFG PN) (REPL ITEM 94)		1
R	95	MM54HC244J			.MICROCIRCUIT,DIGITAL- HIGH SPEED CMOS DIP20 54HC244 (V27014) (HPN 7011533-244) (ESDS) (REPL BY ITEM 95A)		6
R	- 95A	CD54HC244F			.MICROCIRCUIT,DIGITAL- HIGH SPEED CMOS DIP20 54HC244 (V01295) (HPN 7011533-244) (ESDS) (SEE FIG. 5 ITEM 90A FOR OPT MFG PN) (REPL ITEM 95)		6

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	8 96	CD54HC374F		.MICROCIRCUIT,DIGITAL- OCTAL D FLIP FLOP 54HC374 (V02735) (HPN 7011533-374) (ESDS) (REPL BY ITEM 96A)		2
R	- 96A	SNJ54HC374		.MICROCIRCUIT,DIGITAL- OCTAL D FLIP FLOP 54HC374 (V01295) (HPN 7011533-374) (ESDS) (SEE FIG. 5 ITEM 93A FOR OPT MFG PN) (REPL ITEM 96)		2
R	97	CD54HC688F		.MICROCIRCUIT (V02735) (HPN 7011533-688) (ESDS) (REPL BY ITEM 97A)		1
R	- 97A	SN54HC688J		.MICROCIRCUIT (V01295) (HPN 7011533-688) (ESDS) OPT MFG PN V01295 5962-8681801RA (REPL ITEM 97)		1
R	98	CD54HC00F		.MICROCIRCUIT (V02735) (HPN 7011533-999) (ESDS) (REPL BY ITEM 98A)		1
R	- 98A	SNJ54HC00J		.MICROCIRCUIT (V01295) (HPN 7011533-999) (ESDS) (SEE FIG. 6 ITEM 107A FOR OPT MFG PN) (REPL ITEM 98)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	8 99	MC54C4040J		.MICROCIRCUIT (V04713) (HPN 7007355-440) (ESDS) (REPL BY ITEM 99A)		1
R	- 99A	CD54HC4040F		.MICROCIRCUIT (V01295) (HPN 7007355-440) (ESDS) (SEE FIG. 5 ITEM 95A FOR OPT MFG PN) (REPL ITEM 99)		1
R	100	MM54HCT138J		.MICROCIRCUIT,DIGITAL- DECODER/DEMULTIPLEXER 54HCT138 (V27014) (HPN 7017509-138) (ESDS) OPT MFG PN V34371 CD54HCT138F		1
	101	CD54HCT151F		.MICROCIRCUIT,DIGITAL- DATA SELECTOR 54HCT151 (V34371) (HPN 7017509-151) (ESDS)		1
	102	MM54HCT373J		.MICROCIRCUIT,DIGITAL- OCTAL D-TYPE 54HCT373 (V27014) (HPN 7017509-373) (ESDS)		1
R	103	MM54HCT374J		.MICROCIRCUIT,DIGITAL- OCTAL D-TYPE FLIP-FLOP 54HCT374 (V27014) (HPN 7017509-374) (ESDS) OPT MFG PN V34371 CD54HCT374F V01295 SN54HCT374J		2

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	8 105	SRM20256C12		.MICROCIRCUIT,DIGITAL- STATIC RAM (V0FB81) (HPN 7500347-120) (ESDS) (REPL BY ITEM 105A)		1
R	-105A	UPD43256BCZ70L		.MICROCIRCUIT,DIGITAL- STATIC RAM (V33297) TRUE PN IS UPD43256BCZ-70L (HPN 7500347-120) (ESDS) (REPL ITEM 105)		1
R	106	M80C154HRS		.MICROCIRCUIT,DIGITAL- CMOS CPU (VON2P9) TRUE PN IS M80C154H-RS (HPN 7500365-154) (ESDS) OPT MFG PN VON2P9 M80C154RS1		1
R	107	MPQ2222A		.TRANSISTOR ARRAY- (V04713) (HPN 7500367-222) (ESDS) OPT MFG PN V56289 TPQ2222A		3
R	108	A214-19		.CRYSTAL UNIT,QUARTZ 12.8 MHZ HC43U (V71034) (HPN 7500279-19) OPT MFG PN V0S4G1 33090-001 V23875 5009-394		1
	109	M39003-01-2289		.CAPACITOR,ELECTROLYTIC 15 UF $\pm 10\%$ 20 VDCW (HPN 2503220-31)		3

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	8 110	RPE113X7R105K50		.CAPACITOR,CERAMIC 1 UF $\pm 10\%$ 50 VDCW (V51406) (HPN 7500015-105) (SEE FIG. 5 ITEM 59 FOR OPT MFG PN)		4
R	111	7511449-105		.MICROCIRCUIT- RTIU SERIAL EPROM (ESDS) (PROGRAMMED)	A	1
R	-111A	7011882-250		..MICROCIRCUIT,DIGITAL- EPROM (ESDS) (UNPROGRAMMED)	A	1
R	112	RD2S470G		.RESISTOR,CARBON FILM 470 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-471) (REPL BY ITEM 112A)		12
R	-112A	RDS2471G		.RESISTOR,CARBON FILM 470 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-471) (REPL ITEM 112)		12
	113	RD2S1-5KG		.RESISTOR,CARBON FILM 1500 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-152)		12
R	114	7511449-106		.MICROCIRCUIT- RTIU SERIAL EPROM (ESDS) (PROGRAMMED)	B	1
R	-114A	7011882-250		..MICROCIRCUIT,DIGITAL- EPROM (ESDS) (UNPROGRAMMED)	B	1
R	120	7511441		.PRINTED WIRING BOARD (RELOCATED FROM ITEM 1A)		1

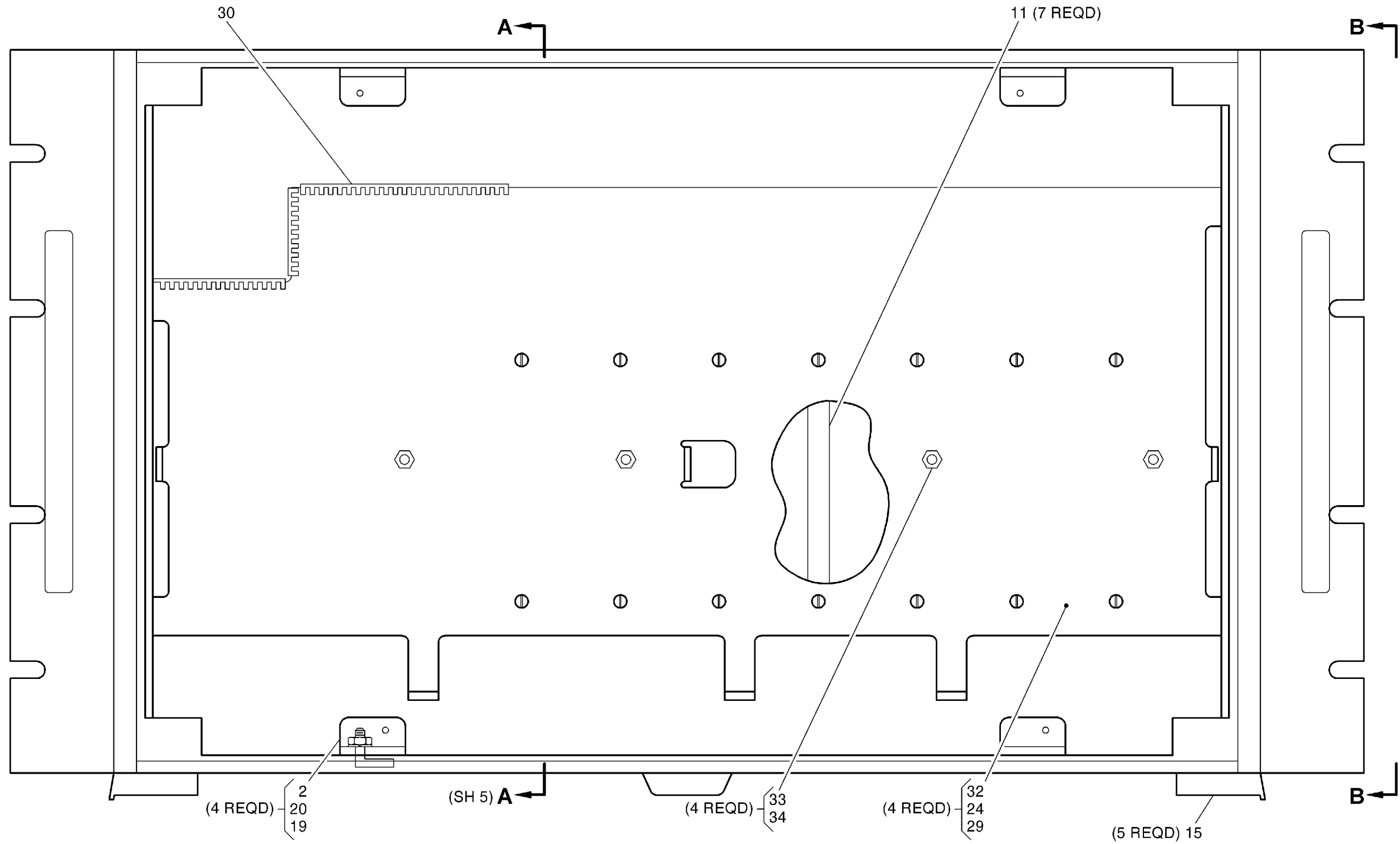
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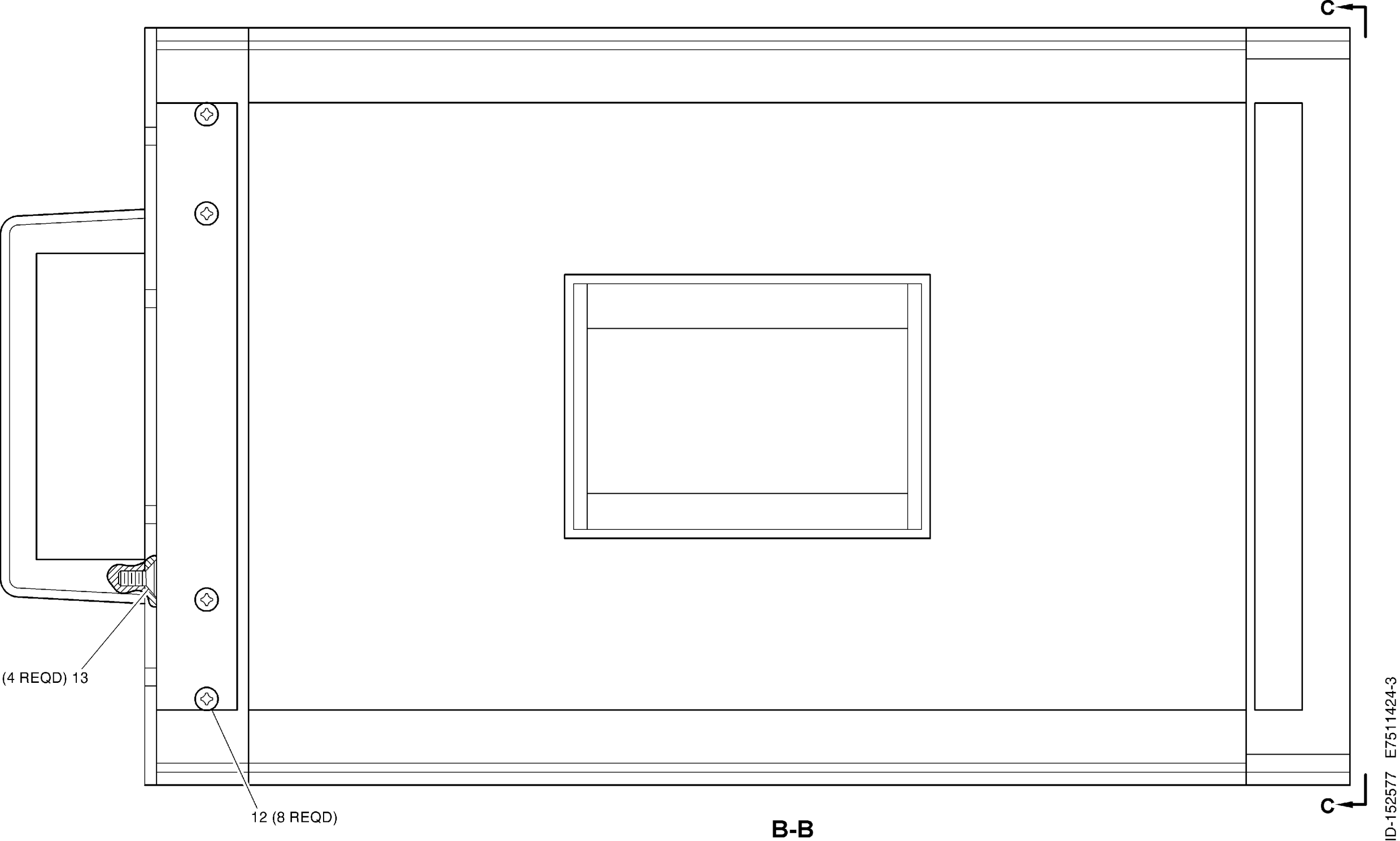
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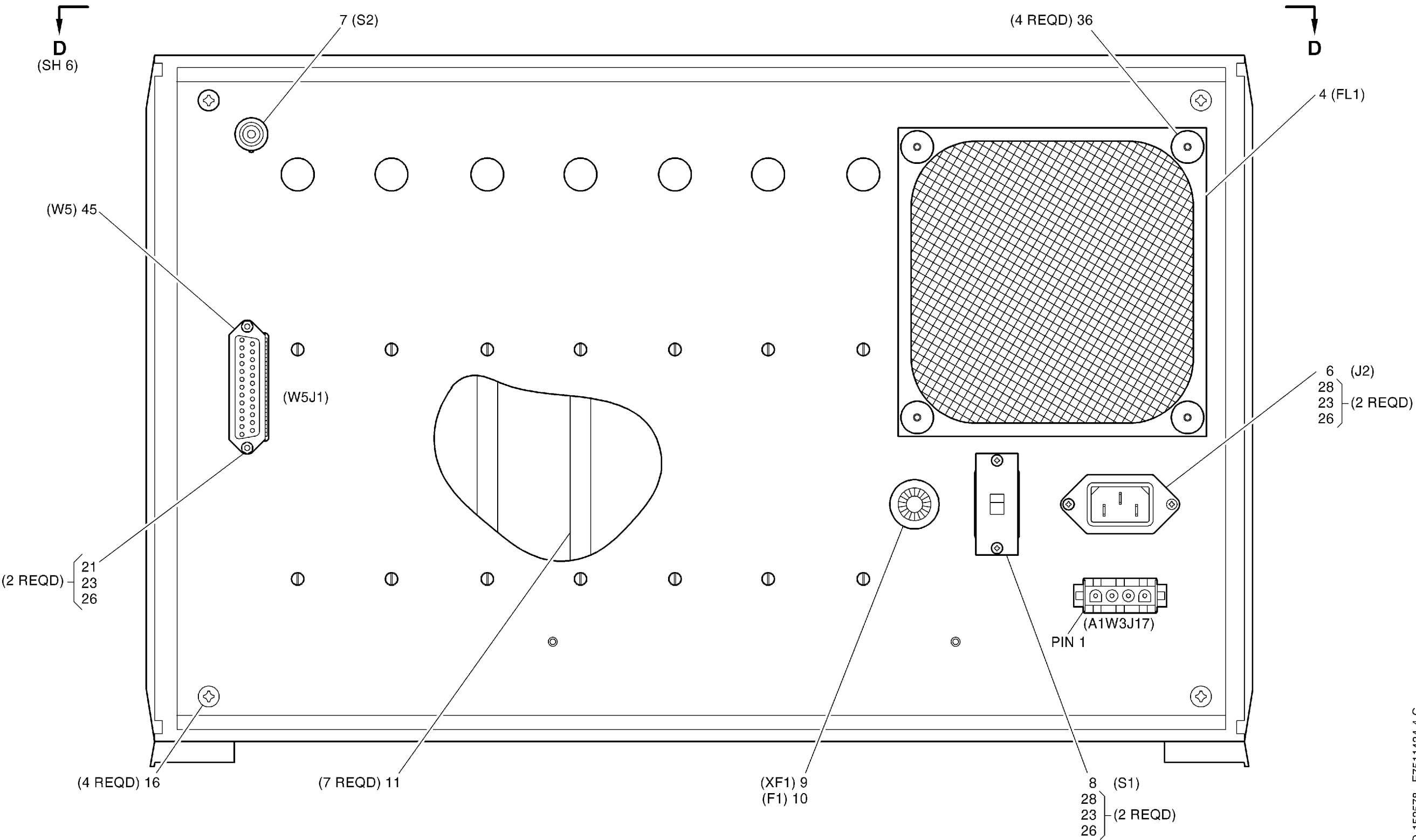
NOTE:
Part designations are for reference only and do not appear on parts.
Prefix designations with A11. For example, A1 is A11A1.

ID-152576 E7511424-2

IPL Figure 9 (Sheet 1). RTIU Chassis Assembly A11

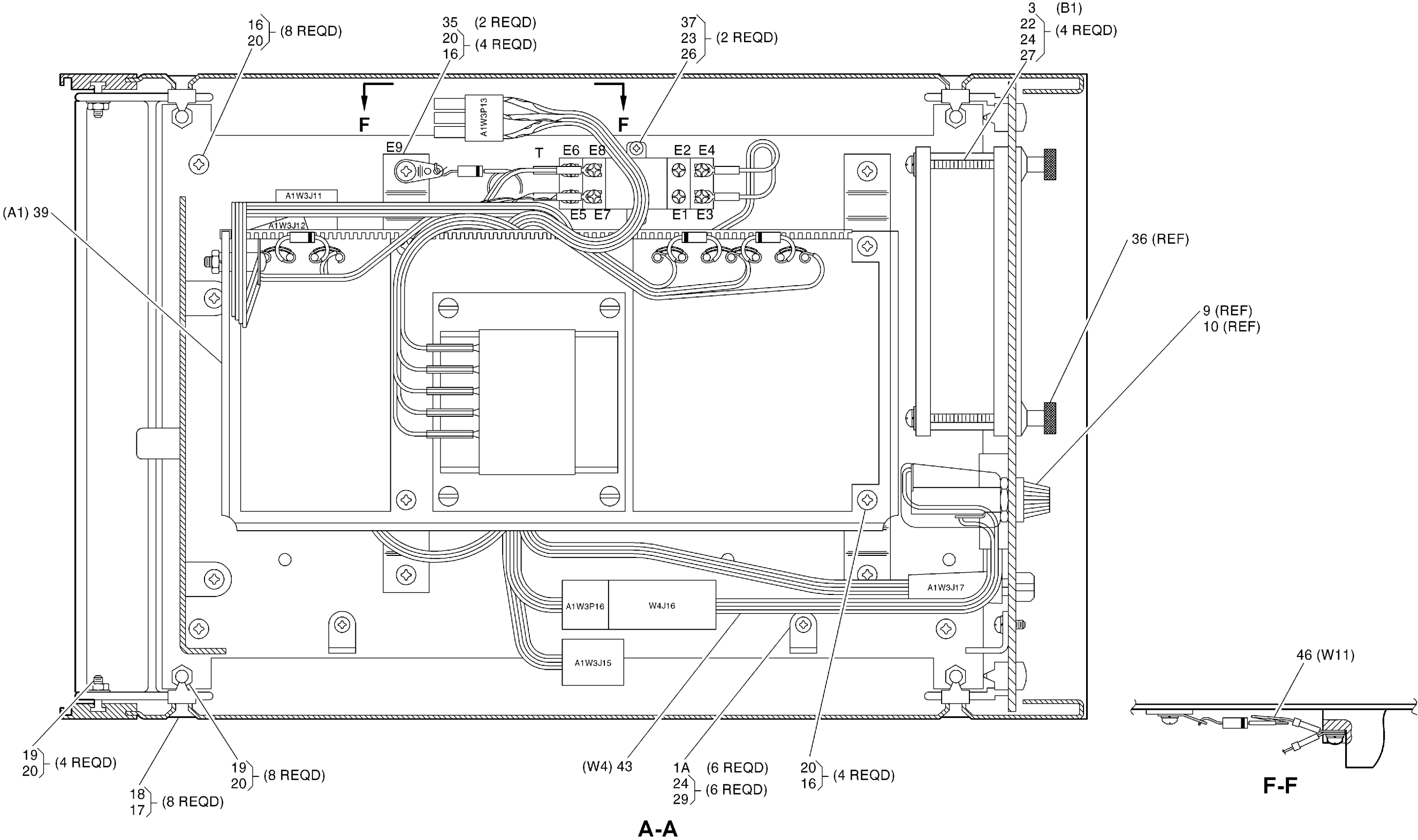


IPL Figure 9 (Sheet 2). RTIU Chassis Assembly A11

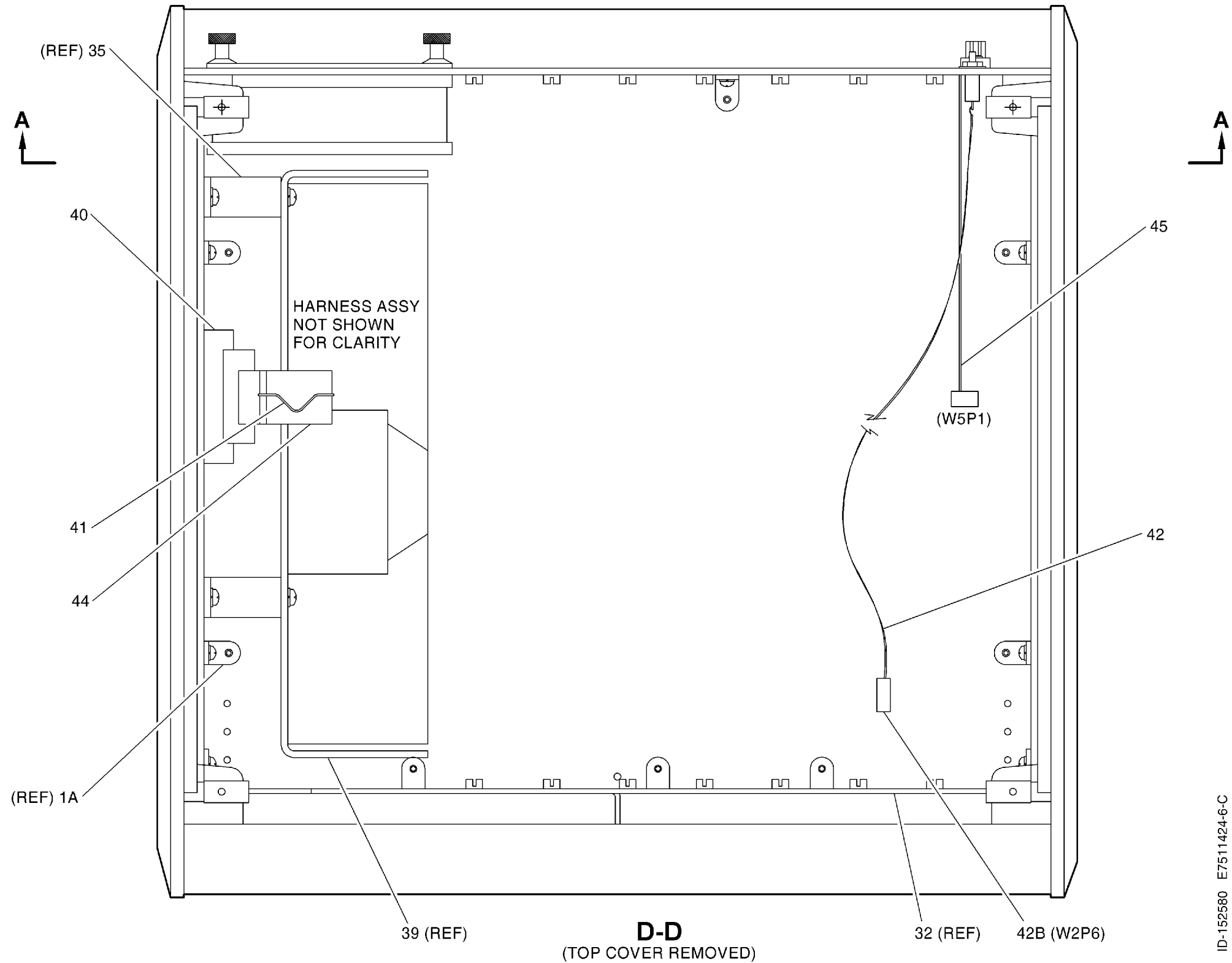


ID-152578 E7511424-4-C

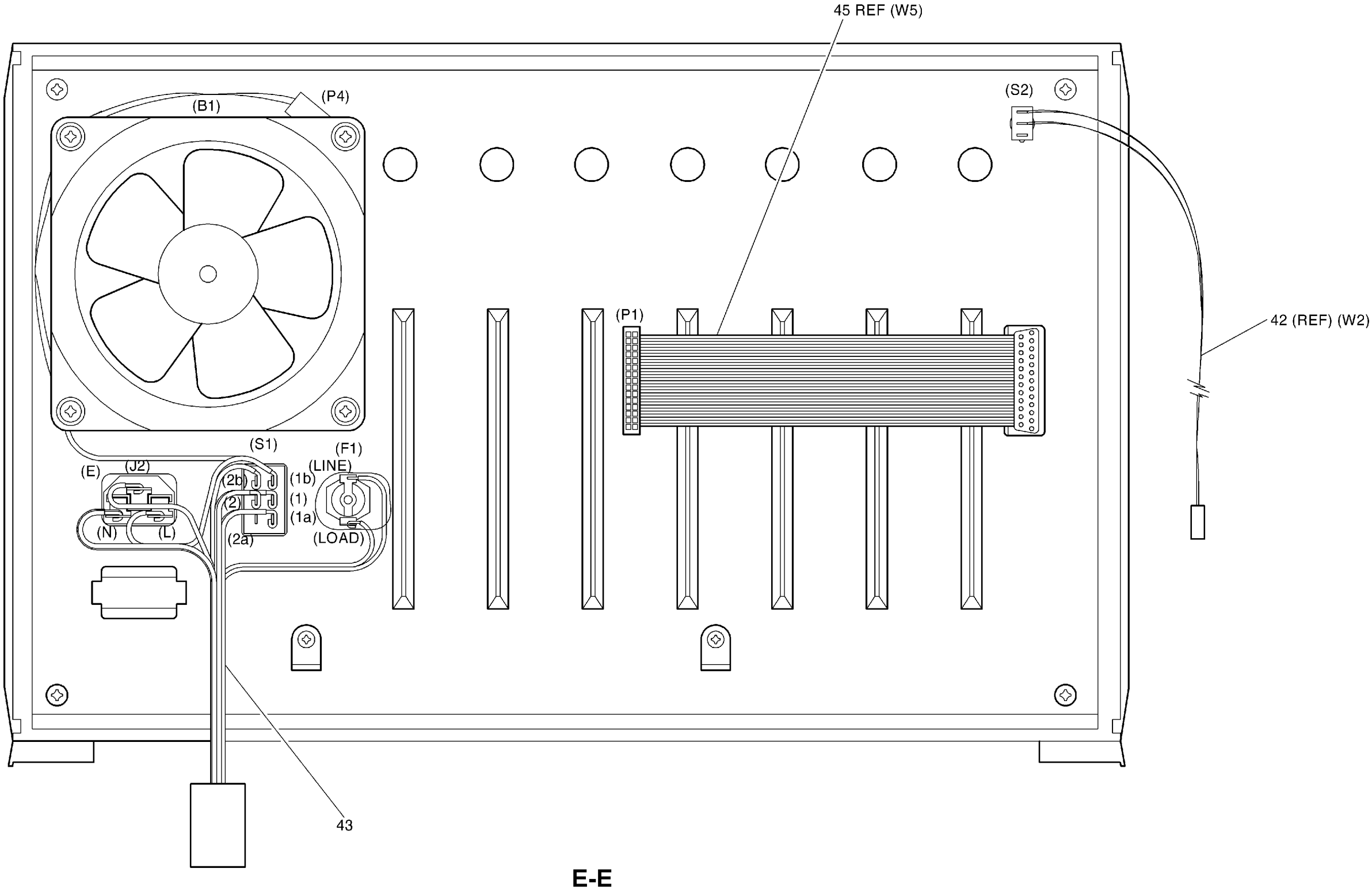
IPL Figure 9 (Sheet 3). RTIU Chassis Assembly A11



IPL Figure 9 (Sheet 4). RTIU Chassis Assembly A11



IPL Figure 9 (Sheet 5). RTIU Chassis Assembly A11



IPL Figure 9 (Sheet 6). RTIU Chassis Assembly A11

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	9 - 1	7511424-901		CHASSIS ASSEMBLY, RTIU (A11) (SEE FIG. 1 ITEM 19 FOR NHA)		RF
	1A	7511465		.BRACKET, PWB		6
	2	7511475		.BRACKET, FRONT PANEL		4
R	3	4600X		.FAN (V23936) (HPN 4017689-1) OPT MFG PN V82877 MX2A3-028316		1
R	4	5502		.FILTER (V23936) (HPN 7500391)		1
R	6	17253		.LINE CORD, RECEPTACLE (V2W733) (HPN 7500344-1)		1
R	7	8121SY4ZGE		.SWITCH, PUSHBUTTON (V09353) TRUE PN IS 8121S-Y4Z-G-E (HPN 7500354-1)		1
	8	V802-12SS05Q		.SWITCH, SLIDE (V09353) (HPN 7500343-1)		1
	9	342001L		.HOLDER, FUSE (V75915) (HPN 3718468-1)		1
	10	312010		.FUSE (V75915) (HPN 3718468-112)		1
	11	11633-2		.GUIDE, PWB (V18677) (HPN 7002113-45)		14
	12	MS24622-31		.SCREW (HPN 338026-31)		8
	13	MS51959-44		.SCREW CSKH CRES 8-32X7-16 (HPN 0920-44)		4
	15	MS24622-17		.SCREW (HPN 338026-17)		5
	16	MS51957-45		.SCREW PNH CRES 8-32X1-2 (HPN 0919-45)		20

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<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
9 17	N08SNYLFLWSHR		.WASHER, FLAT NYL 0.170 ID (V57472) (HPN 2503594-7)		8
18	MS51959-45		.SCREW CSKH CRES 8-32X1-2 (HPN 0920-45)		8
19	MS35649-284		.NUT HEX CRES 8-32 (HPN 0424-14)		16
R 20	MS35338-137		.WASHER, LOCK CRES 0.178 ID (HPN 0164-8) (REPL BY ITEM 20A)		32
R - 20A	0164-8		.WASHER, LOCK CRES 0.178 ID (MS35338-137 MAY BE SUBST) (REPL ITEM 20)		32
21	7003216-111		.POST		2
22	2503203-8		.SCREW PNH CRES 6-32X2 1-4		4
R 23	MS35338-135		.WASHER, LOCK CRES 0.124 ID (HPN 0164-5) (REPL BY ITEM 23A)		8
R - 23A	0164-5		.WASHER, LOCK CRES 0.124 ID (MS35338-135 MAY BE SUBST) (REPL ITEM 23)		8
R 24	MS35338-136		.WASHER, LOCK CRES 0.151 ID (HPN 0164-7) (REPL BY ITEM 24A)		14
R - 24A	0164-7		.WASHER, LOCK CRES 0.151 ID (MS35338-136 MAY BE SUBST) (REPL ITEM 24)		14

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	<u>Fig.</u>		<u>Part</u>	<u>Airline</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff</u>	<u>Units</u>
	<u>Item</u>		<u>Number</u>	<u>Stock No.</u>			<u>Code</u>	<u>Per</u>
R	9	26	MS15795-803			.WASHER,FLAT CRES 0.125 ID (V09772) (HPN 0770-5) (SEE FIG. 1 ITEM 7 FOR OPT MFG PN)		8
R		27	MS15795-805			.WASHER,FLAT CRES 0.156 ID (V09772) (HPN 0770-7) (SEE FIG. 1 ITEM 4 FOR OPT MFG PN)		4
R		28	MS51957-15			.SCREW PNH CRES 4-40X3-8 (HPN 0919-15) (REPL BY ITEM 28A)		4
R	-	28A	0919-15			.SCREW PNH CRES 4-40X3-8 (REPL ITEM 28)		4
R		29	MS51957-28			.SCREW PNH CRES 6-32X3-8 (HPN 0919-28)		10
		30	MS21266-2N			.GROMMET (HPN 752947-2)		1
		32	7511435			.PLATE,GUIDE- FRONT CARD		1
R		33	7003217-67			.POST (REPL BY ITEM 33A)		4
R	-	33A	2057-440SS20			.POST (V55566) TRUE PN IS 2057-440-SS-20 (HPN 7003217-67) (REPL ITEM 33)		4
		34	MS51959-13			.SCREW CSKH CRES 4-40X1-4 (HPN 0920-13)		4
		35	7511485			.BRACKET,POWER SUPPLY		2

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	9 36	4074		.NUT, THUMB KNRL CRES 6-32X1-4 (V00141) (HPN 2578758-5) OPT MFG PN V70318 5736-5		4
R	37	MS51957-17		.SCREW PNH CRES 4-40X1-2 (HPN 0919-17) (REPL BY ITEM 37A)		2
R	- 37A	0919-17		.SCREW PNH CRES 4-40X1-2 (REPL ITEM 37)		2
	38	B55746		.ENCLOSURE- 19" RACK MOUNTING (V98376) (HPN 7511415)		1
R	39	7511434-901		.POWER SUPPLY ASSEMBLY, RTIU (A11A1) (SEE FIG.12 FOR DETAILS)		1
	40	27E487		.SOCKET, RELAY (V77342) (HPN 7500575-1)		1
	41	20C297		.SPRING, RELAY (V77342) (HPN 7500575-2)		1
	42	7511464-903		.LEAD ASSEMBLY (W2) (SEE FIG.16 FOR DETAILS)		1
	43	7511474-904		.LEAD ASSEMBLY (W4) (SEE FIG.20 FOR DETAILS)		1
	44	K10P11D15-24		.RELAY, ELECTROMAGNETIC (V77342) (HPN 7500576-8)		1
	45	7500355-1		.CABLE ASSEMBLY (W5)		1

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<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
9 46	7511474-907			. LEAD ASSEMBLY (SEE FIG.23 FOR DETAILS)		1

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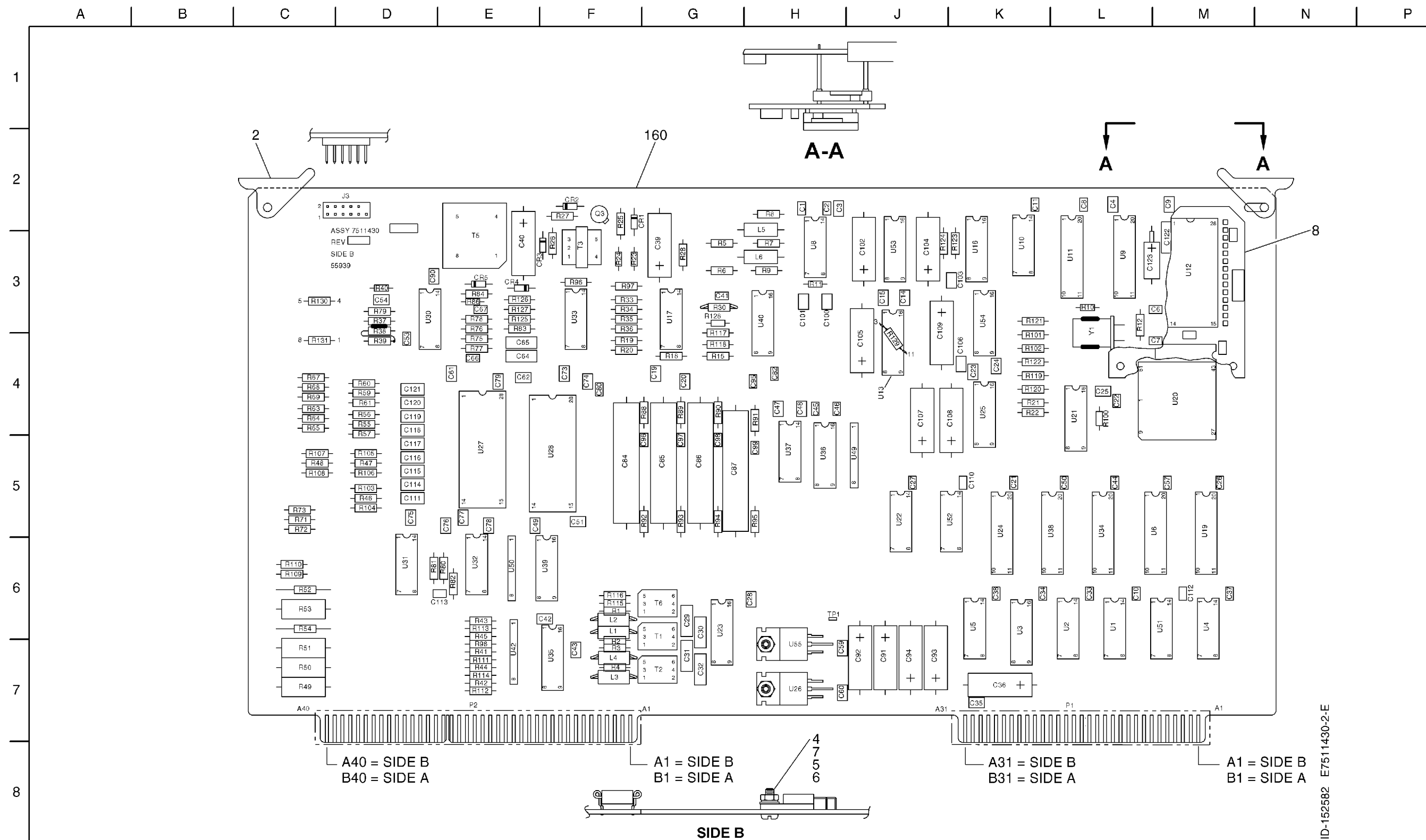


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IPL Figure 10. RTIU Audio Interface CCA A10

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	10 - 1	7511430-901		CCA-RTIU AUDIO INTERFACE (ESDS) (A10) (SEE FIG. 1 ITEM 20 FOR NHA)		RF
R	1A	7511431		.PRINTED WIRING BOARD (RELOCATED TO ITEM 160)		1
R	2	HA9PKG4		.EJECTOR (V82893) (HPN 3719221-1) (SEE FIG. 2 ITEM 2 FOR OPT MFG PN)		2
R	4	MS51957-14		.SCREW PNH CRES 4-40X5-16 (HPN 0919-14) (REPL BY ITEM 4A)		2
R	- 4A	0919-14		.SCREW PNH CRES 4-40X5-16 (REPL ITEM 4)		2
R	5	MS35338-135		.WASHER, LOCK CRES 0.124 ID (HPN 0164-5) (REPL BY ITEM 5A)		2
R	- 5A	0164-5		.WASHER, LOCK CRES 0.124 ID (MS35338-135 MAY BE SUBST) (REPL ITEM 5)		2
R	6	MS15795-803		.WASHER, FLAT CRES 0.125 ID (V09772) (HPN 0770-5) (SEE FIG. 1 ITEM 7 FOR OPT MFG PN)		2
R	7	MS35649-244		.NUT HEX CRES 4-40 (HPN 0424-8)		2
R	8	7511432-901		.CCA-AUDIO DSP (ESDS) (A10A1) (SEE FIG. 13 FOR DETAILS)		1

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		Fig.	Part	Airline	1234567	Nomenclature	Eff	Units
		Item	Number	Stock No.			Code	Per Assy
10	51		M39003-01-2374			.CAPACITOR,ELECTROLYTIC 10 UF $\pm$ 10% 50 VDCW (HPN 2503220-13)		2
	52		M39003-01-2306			.CAPACITOR,ELECTROLYTIC 22 UF $\pm$ 10% 35 VDCW (HPN 2503220-19)		2
	53		M39003-01-2274			.CAPACITOR,ELECTROLYTIC 68 UF $\pm$ 10% 15 VDCW (HPN 2503220-44)		8
	54		M39003-01-2263			.CAPACITOR,ELECTROLYTIC 120 UF $\pm$ 10% 10 VDCW (HPN 2503220-54)		1
R	55		T111C196K020AS			.CAPACITOR,ELECTROLYTIC 19 UF $\pm$ 10% 20 VDCW (V31433) (HPN 2503420-53) OPT MFG PN V56289 151D196X9020Y2		4
R	56		K101J15C0GFVAWA			.CAPACITOR,DIELECTRIC 100 PF $\pm$ 5% 50 VDCW (V59821) (HPN 7500014-101) (SEE FIG. 3 ITEM 3 FOR OPT MFG PN)		7
R	57		K330J15C0GFVAWA			.CAPACITOR,DIELECTRIC 33 PF $\pm$ 5% 50 VDCW (V59821) (HPN 7500014-330) (SEE FIG. 7 ITEM 58 FOR OPT MFG PN)		2
R	58		K472J30C0GFVCWA			.CAPACITOR,DIELECTRIC 4700 PF $\pm$ 5% 50 VDCW (V59821) (HPN 7500014-472) OPT MFG PN V51406 RPE113C0G472J50 V04222 SR211A472JAA		9
R	59		K680J15C0GFVAWA			.CAPACITOR,DIELECTRIC 68 PF $\pm$ 5% 50 VDCW (V59821) (HPN 7500014-680) (SEE FIG. 5 ITEM 56 FOR OPT MFG PN)		2

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 61	CW15C103K		.CAPACITOR,CERAMIC 0.01 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-103) (SEE FIG. 5 ITEM 57 FOR OPT MFG PN)		20
R	62	CW20C104K		.CAPACITOR,CERAMIC 0.1 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-104) (SEE FIG. 5 ITEM 58 FOR OPT MFG PN)		36
R	63	CW40C474K		.CAPACITOR,CERAMIC 0.47 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-474) (SEE FIG. 6 ITEM 57 FOR OPT MFG PN)		5
R	64	CW40C564K		.CAPACITOR,CERAMIC 0.56 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-564) OPT MFG PN V04222 SR305C564KAA V51406 RPE113X7R564K50		2
R	65	JAN1N4148-1		.DIODE (V14552) (HPN 2503517-101) (ESDS)		5
R	66	MS75088-14		.COIL,RF 12 UH $\pm 10\%$ (HPN 2504709-26) (REPL BY ITEM 66A)		4
R	- 66A	1641-123K		.COIL,RF 12 UH $\pm 10\%$ (V99800) (HPN 2504709-26) (REPL ITEM 66)		4
R	67	MS75089-13		.COIL,RF 150 UH $\pm 10\%$ (HPN 2504709-39) (REPL BY ITEM 67A)		2

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	10 - 67A	1641-154		.COIL,RF 150 UH $\pm 10\%$ (V99800) (HPN 2504709-39) (REPL ITEM 67)		2
R	68	929665-08-06		.HEADER (V53387) (HPN 7009600-312)		1
R	69	2N2907A		.TRANSISTOR (V43611) (HPN 2504649-2) (ESDS) (SEE FIG. 7 ITEM 67 FOR OPT MFG PN)		1
R	72	RW69V330		.RESISTOR,WIREWOUND 33 OHMS $\pm 5\%$ 3 W (V91637) (HPN 337708-61)		3
R	73	NA4-10PMD		.RESISTOR,FILM 10 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-200) (REPL BY ITEM 73A)		4
R	- 73A	CMF5510R0DT1		.RESISTOR,FILM 10 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-5510R0DT-1 (HPN 2500169-200) OPT MFG PN V91637 RN55C10R0B V91637 RN55C10R0D V91637 RN55D10R0B V91637 RN55D10R0D (REPL ITEM 73)		4
R	74	NA4-31-6PMD		.RESISTOR,FILM 31.6 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-248) (REPL BY ITEM 74A)		6

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	10 - 74A	CMF5531R6DT1			.RESISTOR,FILM 31.6 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-5531R6DT-1 (HPN 2500169-248) (REPL ITEM 74)		6
R	76	NA4-150PMD			.RESISTOR,FILM 150 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-313) (REPL BY ITEM 76A)		1
R	- 76A	CMF551500DT1			.RESISTOR,FILM 150 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-551500DT-1 (HPN 2500169-313) OPT MFG PN V91637 RN55D1500D (REPL ITEM 76)		1
R	78	NA4-750PMD			.RESISTOR,FILM 750 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-380) (REPL BY ITEM 78A)		5
R	- 78A	CMF557500DT1			.RESISTOR,FILM 750 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-557500DT-1 (HPN 2500169-380) (REPL ITEM 78)		5
R	79	NA4-1000PMD			.RESISTOR,FILM 1000 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-392) (REPL BY ITEM 79A)		2

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	10 - 79A	CMF551001DT1			.RESISTOR,FILM 1000 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-551001DT-1 (HPN 2500169-392) OPT MFG PN V91637 RN55C1001B (REPL ITEM 79)		2
R	81	NA4-2000PMD			.RESISTOR,FILM 2000 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-421) (REPL BY ITEM 81A)		1
R	- 81A	CMF552001DT1			.RESISTOR,FILM 2000 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-552001DT-1 (HPN 2500169-421) OPT MFG PN V91637 RN55C2001B V91637 RN55C2001D V91637 RN55D2001B V91637 RN55D2001D (REPL ITEM 81)		1
R	82	NA4-5620PMD			.RESISTOR,FILM 5620 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-464) (REPL BY ITEM 82A)		2
R	- 82A	CMF555621DT1			.RESISTOR,FILM 5620 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-555621DT-1 (HPN 2500169-464) OPT MFG PN V91637 RNC55H5621BS V91637 CMF555621DT2 (REPL ITEM 82)		2

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 86	NA4-10000PMD		.RESISTOR,FILM 10,000 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-488) (REPL BY ITEM 86A)		9
R	- 86A	CMF551002DT1		.RESISTOR,FILM 10,000 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-551002DT-1 (HPN 2500169-488) OPT MFG PN V91637 RN55C1002D V91637 RNC55C1002D V91637 RN55C1002B (REPL ITEM 86)		9
R	88	NA4-20500PMD		.RESISTOR,FILM 20,500 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-518) (REPL BY ITEM 88A)		3
R	- 88A	CMF552052DT1		.RESISTOR,FILM 20,500 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-552052DT-1 (HPN 2500169-518) OPT MFG PN V91637 CMF552052DT2 (REPL ITEM 88)		3
R	89	NA4-100000PMD		.RESISTOR,FILM 0.100 MEG $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-584) (REPL BY ITEM 89A)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 - 89A	CMF551003DT1		.RESISTOR,FILM 0.100 MEGΩ ±0.5% 1/8 W (V91637) TRUE PN IS CMF-551003DT-1 (HPN 2500169-584) OPT MFG PN V91637 RN55C1003B (REPL ITEM 89)		1
R	90	NA4-102000PMD		.RESISTOR,FILM 0.102 MEGΩ ±0.5% 1/8 W (V14674) (HPN 2500169-585) (REPL BY ITEM 90A)		2
R	- 90A	CMF551023BT1		.RESISTOR,FILM 0.102 MEGΩ ±0.5% 1/8 W (V91637) TRUE PN IS CMF-551023BT-1 (HPN 2500169-585) OPT MFG PN V91637 CMF551023DT1 V91637 RN55C1023B V91637 RN55D1023B V91637 RN55D1023D (REPL ITEM 90)		2
R	91	RCR07G274JR		.RESISTOR,COMPOSITION 0.27 MEGΩ ±5% 1/4 W (HPN 2500932-107) (REPL BY ITEM 91A)		1
R	- 91A	2500932-107		.RESISTOR,COMPOSITION 0.27 MEGΩ ±5% 1/4 W (HPN 2501480-107) MAY BE SUBST) (REPL ITEM 91)		1
	92	RD2S1-2KG		.RESISTOR,CARBON FILM 1200 OHMS ±2% 1/4 W (V59124) (HPN 7500000-122)		1

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<u>Fig. Item</u>		<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
10	95	RD2S27KG		.RESISTOR,CARBON FILM 27,000 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-273)		1
R	96	RL07S471G		.RESISTOR,FILM 470 OHMS $\pm 2\%$ 1/4 W (V91637) (HPN 2504364-41) (REPL BY ITEM 96A)		6
R	- 96A	2504364-41		.RESISTOR,FILM 470 OHMS $\pm 2\%$ 1/4 W (HPN 2501480-41 MAY BE SUBST) (REPL ITEM 96)		6
	97	RD2S4-7KG		.RESISTOR,CARBON FILM 4700 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-472)		3
	100	1ZUHE		.TRANSFORMER,PULSE (V90095) (HPN 7005570) (ESDS)		3
R	101	7500264		.TRANSFORMER		1
R	102	HD1-6409-9		.MICROCIRCUIT (V34371) (HPN 3718362-851) (ESDS) (REPL BY ITEM 102A)		1
R	-102A	HD1-6409-883		.MICROCIRCUIT (V34371) (HPN 3718362-851) (ESDS) (REPL ITEM 102)		1
R	106	DG508BK		.MICROCIRCUIT MULTIPLEXER (V17856) (HPN 7000822) (ESDS) (REPL BY ITEM 106A)		4

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 -106A	HI1-0508-2		.MICROCIRCUIT (V34371) (HPN 7000822-125) (ESDS) OPT MFG PN V34371 DG508AAK (REPL ITEM 106)		4
R	107	TL084MJ		.MICROCIRCUIT (V01295) (HPN 7005997-484) (ESDS)		1
R	108	7011533-4		.MICROCIRCUIT (ESDS) (REPL BY ITEM 108A)		2
R	-108A	SN54HC04J		.MICROCIRCUIT (V01295) (HPN 7011533-4) (ESDS) (REPL ITEM 108)		2
R	109	CD54HC08F		.MICROCIRCUIT (V02735) (HPN 7011533-8) (ESDS) (REPL BY ITEM 109A)		1
R	-109A	SN54HC08J		.MICROCIRCUIT (V01295) (HPN 7011533-8) (ESDS) (REPL ITEM 109)		1
R	110	CD54HC30F		.MICROCIRCUIT (V02735) (HPN 7011533-30) (ESDS) (REPL BY ITEM 110A)		1
R	-110A	7011533-30		.MICROCIRCUIT (ESDS) (REPL ITEM 110)		1
R	111	CD54HC32F		.MICROCIRCUIT (V02735) (HPN 7011533-32) (ESDS) (REPL BY ITEM 111A)		3

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567</u>	<u>Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	10 -111A	SN54HC32J			.MICROCIRCUIT (V01295) (HPN 7011533-32) (ESDS) (REPL ITEM 111)		3
R	112	CD54HC138F			.MICROCIRCUIT,DIGITAL DECODER/DEMULTIPLEXER 54HC138 (V02735) (HPN 7011533-138) (ESDS) (REPL BY ITEM 112A)		1
R	-112A	SN54HC138J			.MICROCIRCUIT,DIGITAL DECODER/DEMULTIPLEXER 54HC138 (V01295) (HPN 7011533-138) (ESDS) (SEE FIG. 5 ITEM 89A FOR OPT MFG PN) (REPL ITEM 112)		1
R	113	CD54HC151F			.MICROCIRCUIT (V02735) (HPN 7011533-151) (ESDS) (REPL BY ITEM 113A)		1
R	-113A	SN54HC151J			.MICROCIRCUIT (V01295) (HPN 7011533-151) (ESDS) (REPL ITEM 113)		1
R	114	CD54HC273F			.MICROCIRCUIT (V01295) (HPN 7011533-273) (ESDS) (SEE FIG. 5 ITEM 92 FOR OPT MFG PN)		5
R	115	CD54HC393F			.MICROCIRCUIT (V02735) (HPN 7011533-393) (ESDS) (REPL BY ITEM 115A)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 -115A	SN54HC393J		.MICROCIRCUIT (V01295) (HPN 7011533-393) (ESDS) (REPL ITEM 115)		1
R	116	7511439-101		.MICROCIRCUIT,PAL-AUDIO DSP (ESDS)		1
R	118	470C7X7R103M5DG		.CAPACITOR NETWORK 0.010 UF $\pm$ 20% 50 VDCW (V56289) (HPN 7010681-263) (REPL BY ITEM 118A)		1
R	-118A	CS20108D1X103M5		.CAPACITOR NETWORK 0.010 UF $\pm$ 20% 50 VDCW (V56845) (HPN 7010681-263) (REPL ITEM 118)		1
R	119	HI3-507-5		.MICROCIRCUIT,LINEAR- ANALOG MULTIPLEXER (V34371) (HPN 7012385-70) (REPL BY ITEM 119A)		2
R	-119A	HI3-0507-5		.MICROCIRCUIT,LINEAR- ANALOG MULTIPLEXER (V34371) (HPN 7012385-70) OPT MFG PN V17856 DG507ACJ (REPL ITEM 119)		2
R	120	MC7905CT		.MICROCIRCUIT,LINEAR- VOLTAGE REGULATOR (V1MQ07) (HPN 7500013-5) (ESDS) OPT MFG PN V27014 LM7905CT		1
	121	7511055-102		.MICROCIRCUIT,DIGITAL- PROGRAMMED AUDIO DSP (ESDS)		1

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	10 122	TP3040J1		.MICROCIRCUIT (V27014) (HPN 7500161-1) (ESDS) (REPL BY ITEM 122A)		1
R	-122A	7500161-1		.MICROCIRCUIT (VNOFSM) (HPN 7500161-1) (ESDS) (REPL ITEM 122)		1
R	123	LM161J		.MICROCIRCUIT, LINEAR- SINGLE COMPARATOR (V27014) (HPN 7500170-161) (ESDS) (REPL BY ITEM 123A)		1
R	-123A	7500170-161		.MICROCIRCUIT, LINEAR- SINGLE COMPARATOR (ESDS) (REPL ITEM 123)		1
R	124	100184		.MICROCIRCUIT (V34371) (HPN 7500215) (ESDS) (REPL BY ITEM 124A)		1
R	-124A	06805-062		.INTEGRATED CIRCUIT- VLSI-AI/DA (V31471) (HPN 7028696) (ESDS) (REPL ITEM 124)		1
	125	DS3487N		.MICROCIRCUIT, DIGITAL- QUAD RS-422 LINE DRIVER (V27014) (HPN 7500366-487) (ESDS)		1
R	127	MC145505P		.MICROCIRCUIT- CODEC/FILTER (V04713) (HPN 7500600-505) (ESDS) (REPL BY ITEM 127A)		2

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 -127A	7500600-505		.MICROCIRCUIT- CODEC/FILTER (ESDS) (REPL ITEM 127)		2
R	128	25A7		.TRANSFORMER,AUDIO (V11700) (HPN 7500330) (REPL BY ITEM 128A)		1
R	-128A	PW7232		.TRANSFORMER,AUDIO (V60767) TRUE PN IS PW-7232 (HPN 7500330) (REPL ITEM 128)		1
R	129	A214-9		.CRYSTAL UNIT,QUARTZ 16 MHZ HC43U (V71034) (HPN 7500279-9) (SEE FIG. 6 ITEM 116 FOR OPT MFG PN)		1
R	130	NA4-4990PMD		.RESISTOR,FILM 4990 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-459) (REPL BY ITEM 130A)		2
R	-130A	CMF554991DT1		.RESISTOR,FILM 4990 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-554991DT-1 (HPN 2500169-459) OPT MFG PN V91637 CMF554991DT2 V91637 RN55C4991B V91637 RNC55C4991B (REPL ITEM 130)		2
R	131	NA4-5110PMD		.RESISTOR,FILM 5110 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-460) (REPL BY ITEM 131A)		1

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	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	10 -131A	CMF555111DT1		.RESISTOR,FILM 5110 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-555111DT-1 (HPN 2500169-460) OPT MFG PN V91637 CMF555111DT2 (REPL ITEM 131)		1
R	132	NA4-6340PMD		.RESISTOR,FILM 6340 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-469) (REPL BY ITEM 132A)		2
R	-132A	CMF556341DT1		.RESISTOR,FILM 6340 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-556341DT-1 (HPN 2500169-469) OPT MFG PN V91637 RN55C6341B V91637 CMF556341DT2 (REPL ITEM 132)		2
R	134	NA4-24900PMD		.RESISTOR,FILM 24,900 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-526) (REPL BY ITEM 134A)		1
R	-134A	CMF552492DT1		.RESISTOR,FILM 24,900 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-552492DT-1 (HPN 2500169-526) OPT MFG PN V91637 RN55C2492B (REPL ITEM 134)		1

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<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
10 135	RD2S3-3KG		.RESISTOR,CARBON FILM 3300 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-332)		1
136	M39003-01-2289		.CAPACITOR,ELECTROLYTIC 15 UF $\pm 10\%$ 20 VDCW (HPN 2503220-31)		1
R 137	76046-001		.TERMINAL (V22526) (HPN 7500033-1) (REPL BY ITEM 137A)		1
R -137A	008-0096-14		.TERMINAL (V79963) (HPN 7500033-1) (REPL ITEM 137)		1
R 138	NA4-6490PMD		.RESISTOR,FILM 6490 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-470) (REPL BY ITEM 138A)		1
R -138A	CMF556491DT1		.RESISTOR,FILM 6490 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-556491DT-1 (HPN 2500169-470) OPT MFG PN V91637 RNC55H6491BS V91637 RN55C6491B V91637 CMF556491DT2 (REPL ITEM 138)		1
R 139	K121J15C0GFVAWA		.CAPACITOR,DIELECTRIC 120 UUF $\pm 5\%$ 50 VDCW (V59821) (HPN 7500014-121) OPT MFG PN V51406 RPE110C0G121J50 V04222 SR151A121JAA		2
R 140	RW69V270		.RESISTOR,FIXED,WIRE WOUND 27 OHMS $\pm 10\%$ 3 W (V91637) (HPN 337708-59)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 141	NA4-475PMD		.RESISTOR,FILM 475 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-361) (REPL BY ITEM 141A)		18
R	-141A	CMF554750DT1		.RESISTOR,FILM 475 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-554750DT-1 (HPN 2500169-361) (REPL ITEM 141)		18
R	142	NA4-604PMD		.RESISTOR,FILM 604 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-371) (REPL BY ITEM 142A)		7
R	-142A	CMF556040DT1		.RESISTOR,FILM 604 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-556040DT-1 (HPN 2500169-371) (REPL ITEM 142)		7
R	143	NA4-6980PMD		.RESISTOR,FILM 6980 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-473) (REPL BY ITEM 143A)		1
R	-143A	CMF556981DT1		.RESISTOR,FILM 6980 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-556981DT-1 (HPN 2500169-473) OPT MFG PN V91637 RNC55H6981BS V91637 RN55C6981B V91637 CMF556981DT2 (REPL ITEM 143)		1

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 144	NA4-9310PMD		.RESISTOR,FILM 9310 OHMS $\pm 0.5\%$ 1/8 W (V14674) (HPN 2500169-485) (REPL BY ITEM 144A)		2
R	-144A	CMF559311DT1		.RESISTOR,FILM 9310 OHMS $\pm 0.5\%$ 1/8 W (V91637) TRUE PN IS CMF-559311DT-1 (HPN 2500169-485) OPT MFG PN V91637 RN55E9311B V91637 RN55C9311B V91637 RNC55E9311B (REPL ITEM 144)		2
R	145	RL07S151G		.RESISTOR,FILM 150 OHMS $\pm 2\%$ 1/4 W (V91637) (HPN 2504364-29) (REPL BY ITEM 145A)		4
R	-145A	2504364-29		.RESISTOR,FILM 150 OHMS $\pm 2\%$ 1/4 W (HPN 2501480-29 MAY BE SUBST) (REPL ITEM 145)		4
R	146	ML124-1000PMB		.RESISTOR,FILM 1000 OHMS $\pm 0.1\%$ 1/8 W (V19647) (HPN 4004090-392) (REPL BY ITEM 146A)		1
R	-146A	RN55C1001B		.RESISTOR,FILM 1000 OHMS $\pm 0.1\%$ 1/8 W (V19701) (HPN 4004090-392) OPT MFG PN V91637 CMF551001BT2 V24546 RN55C1001B V91637 RN55C1001B (REPL ITEM 146)		1

- Item Not Illustrated

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Radio Test Interface Unit / Part No. 7511400

	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 147	ML124-9090PMB		.RESISTOR,FILM 9090 OHMS $\pm 0.1\%$ 1/8 W (V19647) (HPN 4004090-484) (REPL BY ITEM 147A)		1
R	-147A	RN55C9091B		.RESISTOR,FILM 9090 OHMS $\pm 0.1\%$ 1/8 W (V91637) (HPN 4004090-484) OPT MFG PN V91637 CMF559091BT2 (REPL ITEM 147)		1
R	148	ML124-10000PMB		.RESISTOR,FILM 10,000 OHMS $\pm 0.1\%$ 1/8 W (V19647) (HPN 4004090-488) (REPL BY ITEM 148A)		7
R	-148A	RN55C1002B		.RESISTOR,FILM 10,000 OHMS $\pm 0.1\%$ 1/8 W (V19701) (HPN 4004090-488) OPT MFG PN V24546 RN55C1002B V91637 RN55C1002B (REPL ITEM 148)		7
R	149	ML124-49900PMB		.RESISTOR,FILM 49,900 OHMS $\pm 0.1\%$ 1/8 W (V19647) (HPN 4004090-555) (REPL BY ITEM 149A)		2
R	-149A	RN55C4992B		.RESISTOR,FILM 49,900 OHMS $\pm 0.1\%$ 1/8 W (V19701) (HPN 4004090-555) OPT MFG PN V91637 CMF55-499KFT2 V91637 RN55C4992B V24546 RN55C4992B (REPL ITEM 149)		2

- Item Not Illustrated

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GROUND EQUIPMENT MANUAL - VOL I

Radio Test Interface Unit / Part No. 7511400

	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 150	ML124-0-100PMB		.RESISTOR,FILM 0.100 MEGΩ ±0.1% 1/8 W (V19647) (HPN 4004090-584) (REPL BY ITEM 150A)		1
R	-150A	RN55C1003B		.RESISTOR,FILM 0.100 MEGΩ ±0.1% 1/8 W (V19701) (HPN 4004090-584) OPT MFG PN V91637 CMF55100KPMBT2 V24546 RN55C1003B V91637 RN55C1003B (REPL ITEM 150)		1
R	151	ML124-49300PMB		.RESISTOR,FILM 49,300 OHMS ±0.1% 1/8 W (V19647) (HPN 4004090-855) (REPL BY ITEM 151A)		2
R	-151A	RN55C4932B		.RESISTOR,FILM 49,300 OHMS ±0.1% 1/8 W (V19701) (HPN 4004090-855) OPT MFG PN V19701 RN55C4932B V24546 RN55C4932B (REPL ITEM 151)		2
R	152	4608X1-104		.RESISTOR,NETWORK (V32997) (HPN 7000102-96) (REPL BY ITEM 152A)		2
R	-152A	MSP08A011003F		.RESISTOR,NETWORK (V56845) (HPN 7000102-96) (SEE FIG. 5 ITEM 81A FOR OPT MFG PN) (REPL ITEM 152)		2

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Radio Test Interface Unit / Part No. 7511400

	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	10 153	FRJ55		.RESISTOR,ZERO-OHM (V91637) (HPN 7005517-2) (SEE FIG. 6 ITEM 71 FOR OPT MFG PN)		4
R	154	UA7805UC		.INTEGRATED CIRCUIT- +5.0 VOLT REGULATOR (V07263) (HPN 3718363-354) (ESDS) (REPL BY ITEM 154A)		1
R	-154A	3718363-354		.INTEGRATED CIRCUIT- +5.0 VOLT REGULATOR (ESDS) (HPN 7500528-5 MAY BE SUBST) (REPL ITEM 154)		1
R	155	OP470FY		.MICROCIRCUIT,LINEAR- (V06665) (HPN 7500625-850) (ESDS) (REPL BY ITEM 155A)		5
R	-155A	7500625-850		.MICROCIRCUIT,LINEAR- (ESDS) (REPL ITEM 155)		5
	156	RD2S1-5KG		.RESISTOR,CARBON FILM 1500 OHMS $\pm 2\%$ 1/4 W (V59124) (HPN 7500000-152)		2
R	160	7511431		.PRINTED WIRING BOARD (RELOCATED FROM ITEM 1A)		1

- Item Not Illustrated

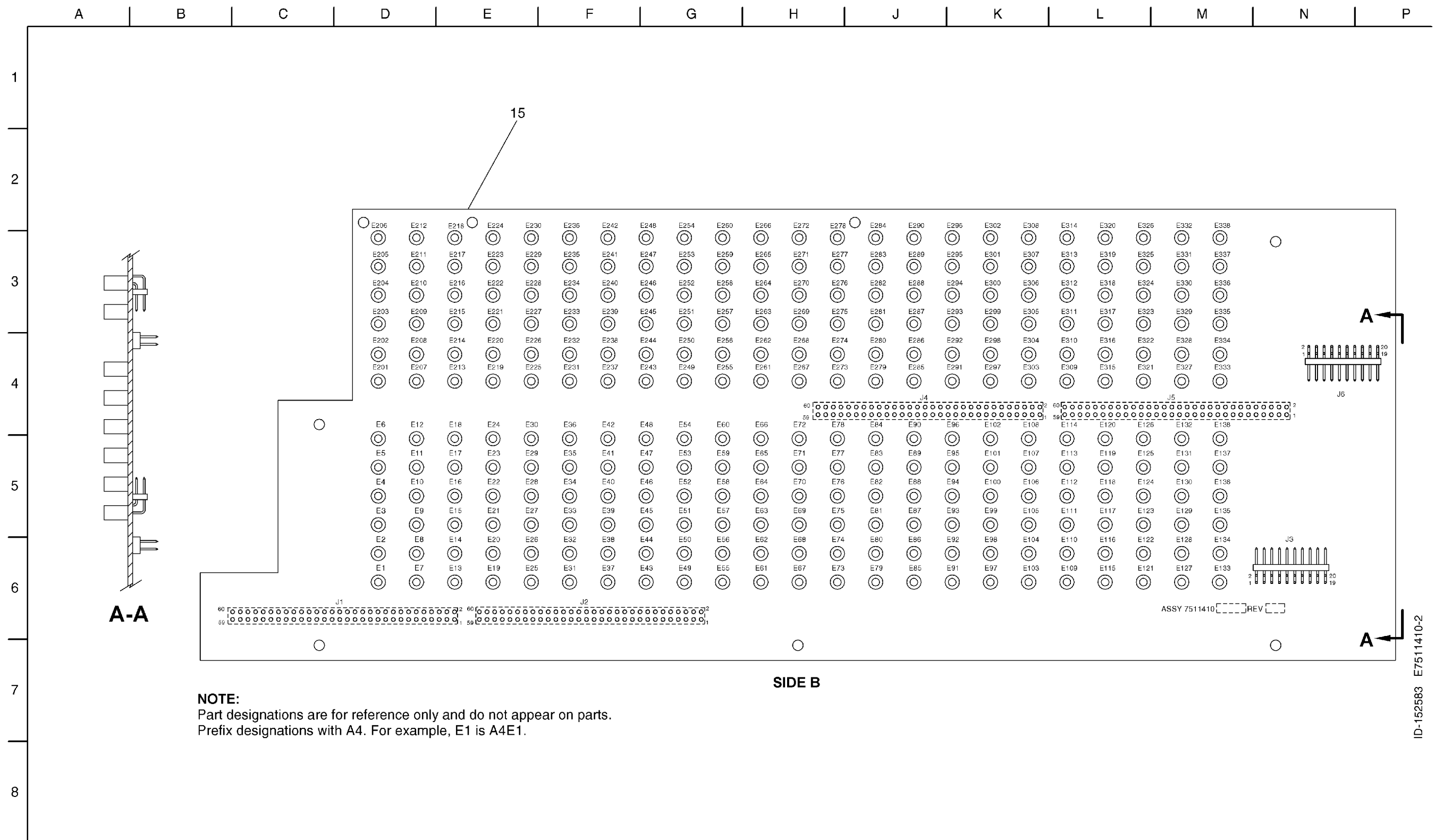


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IPL Figure 11. Test Jack CCA A12A1

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Radio Test Interface Unit / Part No. 7511400

<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
11 - 1	7511410-901		CIRCUIT CARD ASSEMBLY- TEST JACK (A12A1) (SEE FIG. 4 ITEM 16 FOR NHA)		RF
R 1A	7511411		.PRINTED WIRING BOARD (RELOCATED TO ITEM 15)		1
2	105-2201-205		.JACK, TEST (V74970) (HPN 7500322-1)		96
3	105-2202-205		.JACK, TEST (V74970) (HPN 7500322-2)		24
4	105-2203-205		.JACK, TEST (V74970) (HPN 7500322-3)		118
5	105-2204-205		.JACK, TEST (V74970) (HPN 7500322-4)		14
6	105-2207-205		.JACK, TEST (V74970) (HPN 7500322-5)		8
7	105-2210-205		.JACK, TEST (V74970) (HPN 7500322-6)		16
8	68021-120		.CONNECTOR, RECEPTACLE (V22526) (HPN 7004975-20)		2
R 9	929665-08-30		.HEADER (V63878) (HPN 7009600-360) (REPL BY ITEM 9A)		4
R - 9A	CAD60-23B63		.HEADER (V52072) TRUE PN IS CAD-60-23B-63 (HPN 7009600-360) (REPL ITEM 9)		4
R 15	7511411		.PRINTED WIRING BOARD (RELOCATED FROM ITEM 1A)		1

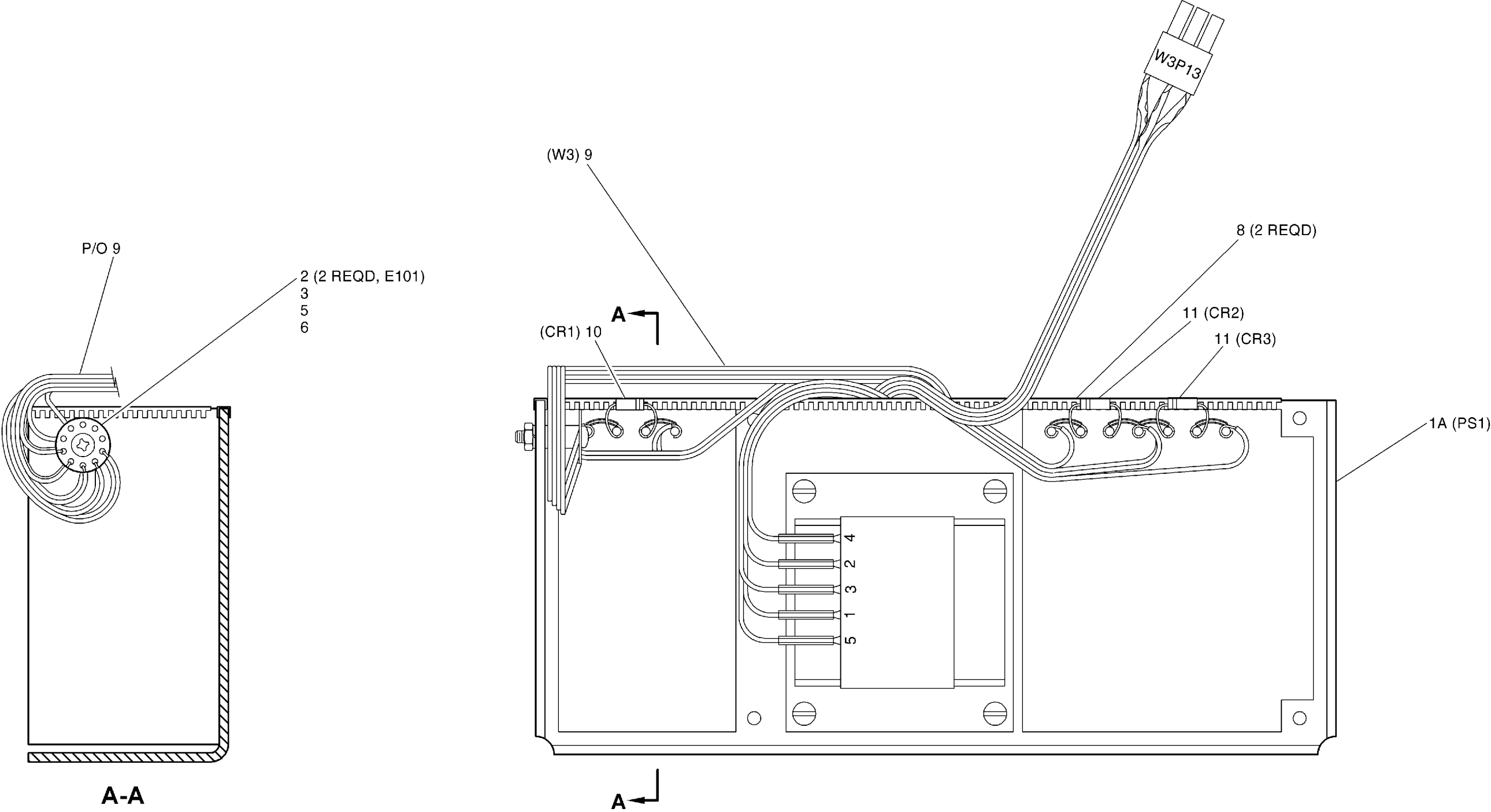
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NOTE:
Part designations are for reference only and do not appear on parts.
Prefix designations with A1. For example, E101 is A1E101.

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IPL Figure 12. RTIU Power Supply Assembly A11A1

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Radio Test Interface Unit / Part No. 7511400

	<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	12 - 1	7511434-901		POWER SUPPLY ASSEMBLY, RTIU (A11A1) (SEE FIG. 9 ITEM 39 FOR NHA)		RF
	1A	HCBB75WA		.POWER SUPPLY (V54407) (HPN 7500358-75)		1
R	2	SE26XF02		.STUD (V81312) (HPN 2503632-1)		2
R	3	MS51957-48		.SCREW PNH CRES 8-32X7-8 (HPN 0919-48)		1
	5	MS35649-284		.NUT HEX CRES 8-32 (HPN 0424-14)		1
R	6	MS35338-137		.WASHER, LOCK CRES 0.178 ID (HPN 0164-8) (REPL BY ITEM 6A)		1
R	- 6A	0164-8		.WASHER, LOCK CRES 0.178 ID (MS35338-137 MAY BE SUBST) (REPL ITEM 6)		1
	8	MS21266-3N		.GROMMET (HPN 752947-3)		2
	9	7511474-903		.HARNESS ASSEMBLY (W3) (SEE FIG.19 FOR DETAILS)		1
R	10	1N6267ARL4		.SEMICONDUCTOR DEVICE (V1MQ07) (HPN 4007038-1) (ESDS) (SEE FIG. 7 ITEM 121A FOR OPT MFG PN) (POST SB 7511400-34-1)		1

- Item Not Illustrated

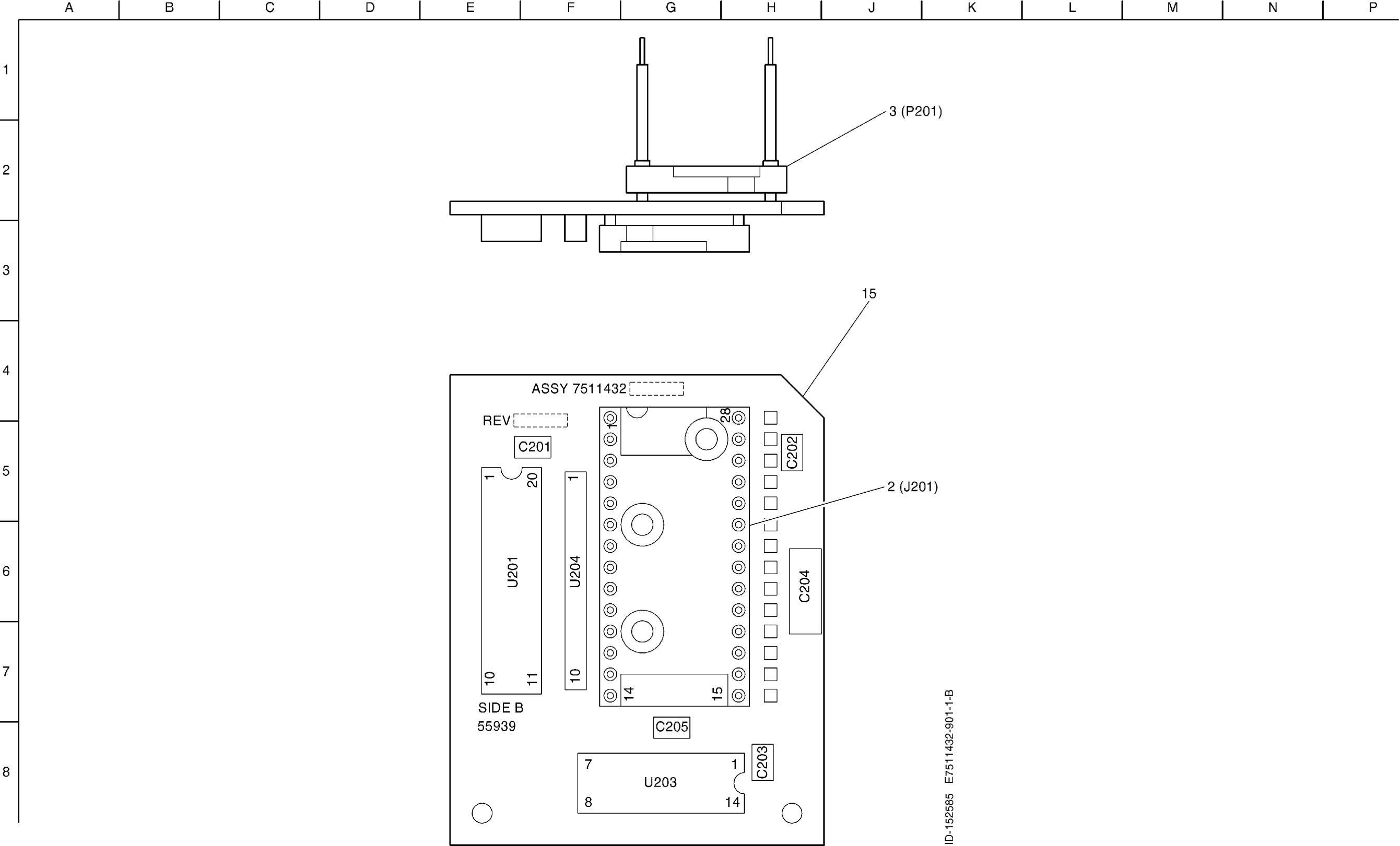
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Radio Test Interface Unit / Part No. 7511400

			<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
R	12	11		1-5KE18A		.SEMICONDUCTOR DEVICE (V12954) TRUE PN IS 1.5KE18A (HPN 4007038-18) (SEE FIG. 7 ITEM 125 FOR OPT MFG PN) (POST SB 7511400-34-1)		2

- Item Not Illustrated



IPL Figure 13. Audio DSP CCA A10A1

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Radio Test Interface Unit / Part No. 7511400

	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	13 - 1	7511432-901		CCA-AUDIO DSP (ESDS) (A10A1) (SEE FIG.10 ITEM 8 FOR NHA)		RF
R	1A	7511433		.PRINTED WIRING BOARD (RELOCATED TO ITEM 15)		1
R	2	DS628-01TT		.SOCKET (V61638) (HPN 3718661-103) (SEE FIG. 5 ITEM 2 FOR OPT MFG PN)		1
R	3	DA628-42T		.ADAPTER (V61638) (HPN 7500611-28) OPT MFG PN V55322 AP628TP		1
R	4	MM54HCT245J		.MICROCIRCUIT,DIGITAL- OCTAL BUS TRANSCEIVERS (V27014) (HPN 7017509-245) (ESDS) (REPL BY ITEM 4A)		1
R	- 4A	SNJ54HCT245J		.MICROCIRCUIT,DIGITAL- OCTAL BUS TRANSCEIVERS (V01295) (HPN 7017509-245) (ESDS) (SEE FIG. 5 ITEM 97A FOR OPT MFG PN) (REPL ITEM 4)		1
R	5	7011533-4		.MICROCIRCUIT (ESDS) (REPL BY ITEM 5A)		1
R	- 5A	SN54HC04J		.MICROCIRCUIT (V01295) (HPN 7011533-4) (ESDS) (REPL ITEM 5)		1
R	6	4610X101-473		.RESISTOR,NETWORK (V32997) (HPN 7000102-316) (REPL BY ITEM 6A)		1

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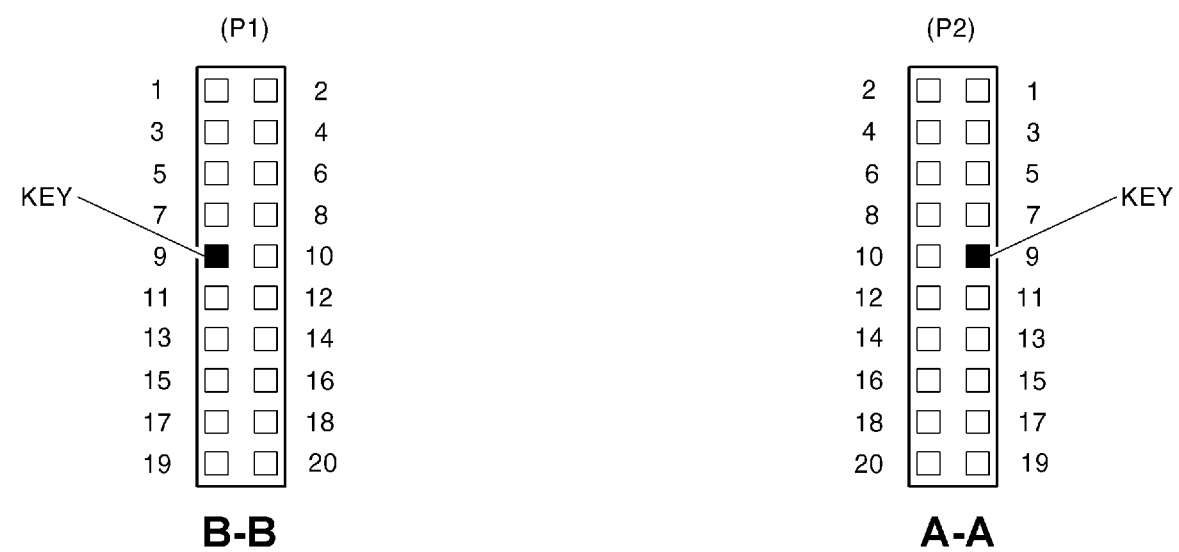
GROUND EQUIPMENT MANUAL - VOL I

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	13 - 6A	MSP10A014702F		.RESISTOR,NETWORK (V56845) (HPN 7000102-316) OPT MFG PN V56845 7000102-316 V11236 750-101R47K V56845 MSP10A014702FS232 (REPL ITEM 6)		1
R	7	CW15C103K		.CAPACITOR,CERAMIC 0.01 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-103) (SEE FIG. 5 ITEM 57 FOR OPT MFG PN)		3
R	8	CW40C474K		.CAPACITOR,CERAMIC 0.47 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-474) (SEE FIG. 6 ITEM 57 FOR OPT MFG PN)		1
R	9	CW15C120K		.CAPACITOR,CERAMIC 0.001 UF $\pm 10\%$ 50 VDCW (V71590) (HPN 7500015-102) OPT MFG PN V04222 SR151C102KAA V51406 RPE110X7R102K50		1
R	15	7511433		.PRINTED WIRING BOARD (RELOCATED FROM ITEM 1A)		1

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<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
14 - 1	7511464-901		CABLE ASSEMBLY (W9, W10) (SEE FIG. 1 ITEM 21 FOR NHA)		RF
R 3	76804-27		.CONTACT (V22526) (HPN 7002730-3) (REPL BY ITEM 3A)		38
R - 3A	48046-000		.CONTACT (V22526) (HPN 7002730-3) (REPL ITEM 3)		38
R 5	65307-001		.PLUG (V22526) (HPN 7003467)		2
R 13	65043-024		.HOUSING (V22526) (HPN 7002851-26)		2
25	NAS1745-3		.SPLICE (HPN 2503668-2)		10

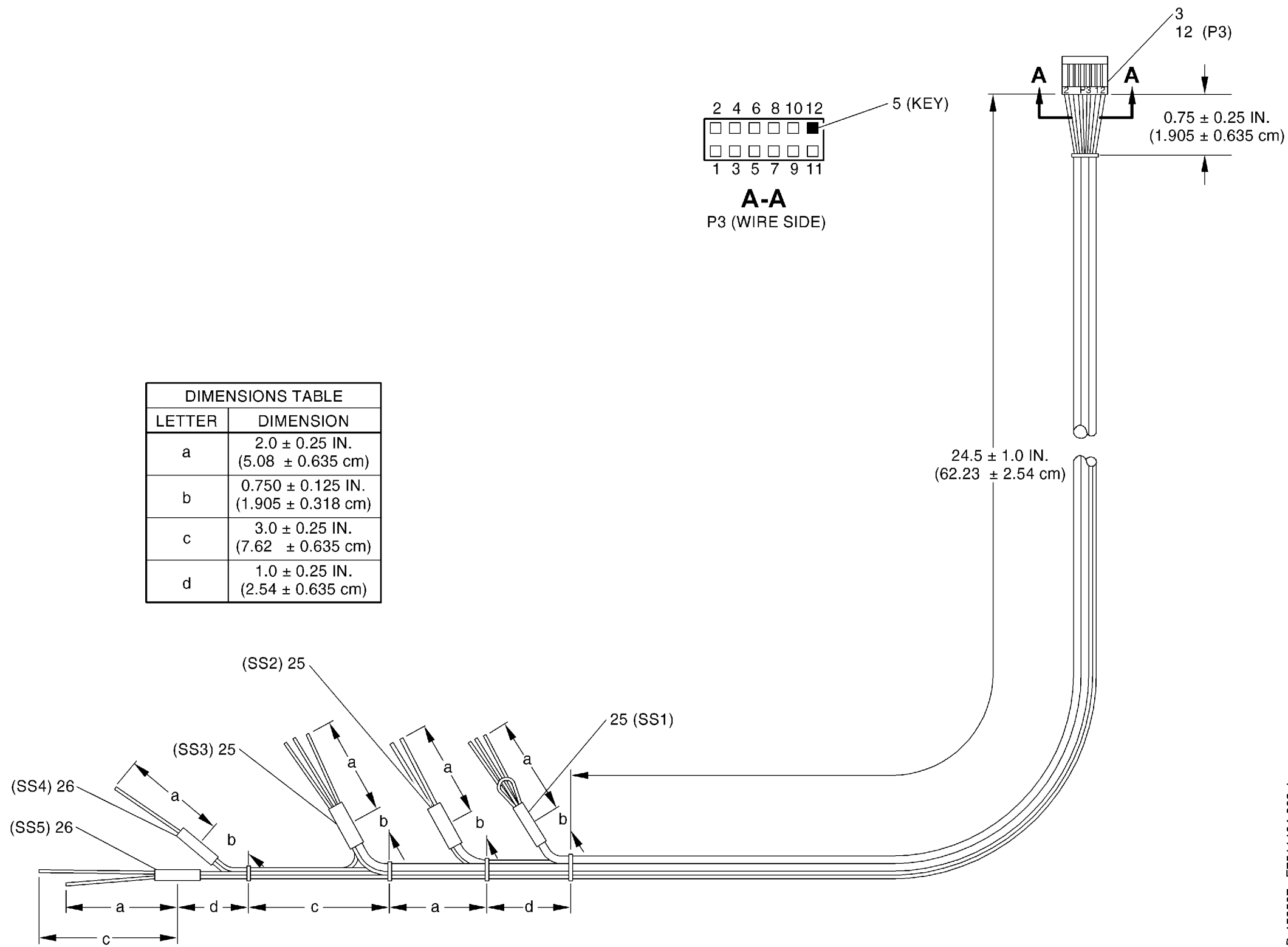
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IPL Figure 15. Lead Assembly (7511464-902)

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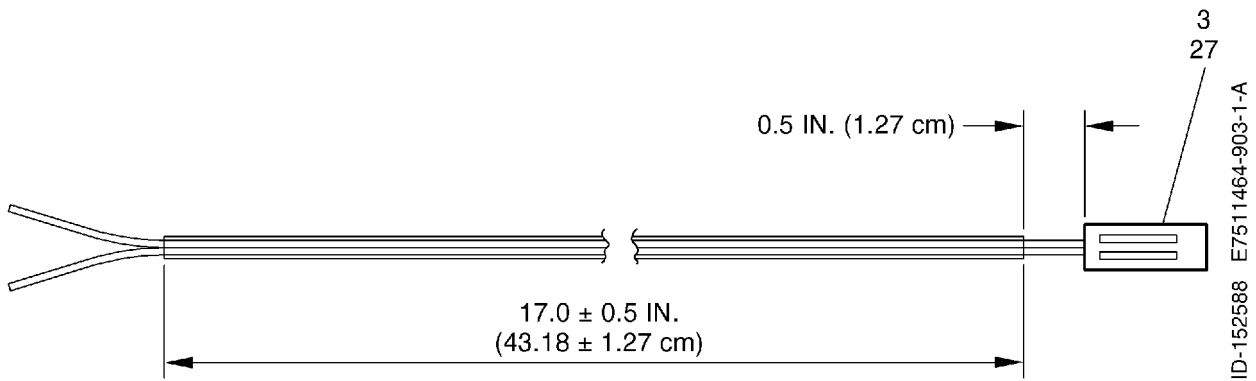
<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
15 - 1	7511464-902		LEAD ASSEMBLY (SEE FIG. 4 ITEM 17 FOR NHA)		RF
R 3	76804-27		.CONTACT (V22526) (HPN 7002730-3) (REPL BY ITEM 3A)		11
R - 3A	48046-000		.CONTACT (V22526) (HPN 7002730-3) (REPL ITEM 3)		11
R 5	65307-001		.PLUG (V22526) (HPN 7003467)		1
12	65043-031		.HOUSING, CONNECTOR (V22526) (HPN 7002851-12)		1
25	NAS1745-3		.SPLICE (HPN 2503668-2)		3
26	NAS1745-2		.SPLICE (HPN 2503668-1)		2

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Radio Test Interface Unit / Part No. 7511400



IPL Figure 16. Lead Assembly (7511464-903)

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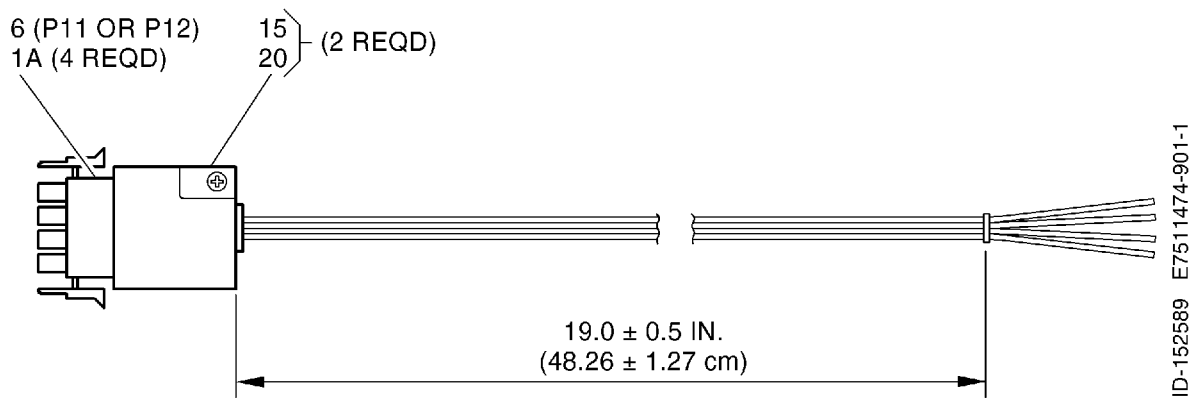
<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
16 - 1	7511464-903		LEAD ASSEMBLY (W2) (SEE FIG. 9 ITEM 42 FOR NHA)		RF
R 3	76804-27		.CONTACT (V22526) (HPN 7002730-3) (REPL BY ITEM 3A)		2
R - 3A	48046-000		.CONTACT (V22526) (HPN 7002730-3) (REPL ITEM 3)		2
R 27	65039-35		.HOUSING (V22526) (HPN 7002999-2)		1

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NOTE:

Item 6 is identified as P11 when used on the A1 7511420-901 assembly, and P12 when used on the A2 7511420-901 assembly.

IPL Figure 17. Lead Assembly (7511474-901)

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<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
17 - 1	7511474-901		LEAD ASSEMBLY (SEE FIG. 2 ITEM 8 FOR NHA)		RF
R 1A	350218-1		.CONTACT, PIN- REEL (V00779) (HPN 7500433-1) (PREFERRED PART)		4
R - 1B	350547-1		.CONTACT, PIN- LOOSE (V00779) (HPN 7500433-2) (ALTERNATE PART)		4
6	1-480702-0		.HOUSING AND CAP, CONNECTOR (V00779) (HPN 7500352-1)		1
15	641777-1		.STRAIN RELIEF AND ADAPTER (V00779) (HPN 7500351-1)		2
20	MS24622-17		.SCREW (HPN 338026-17)		2

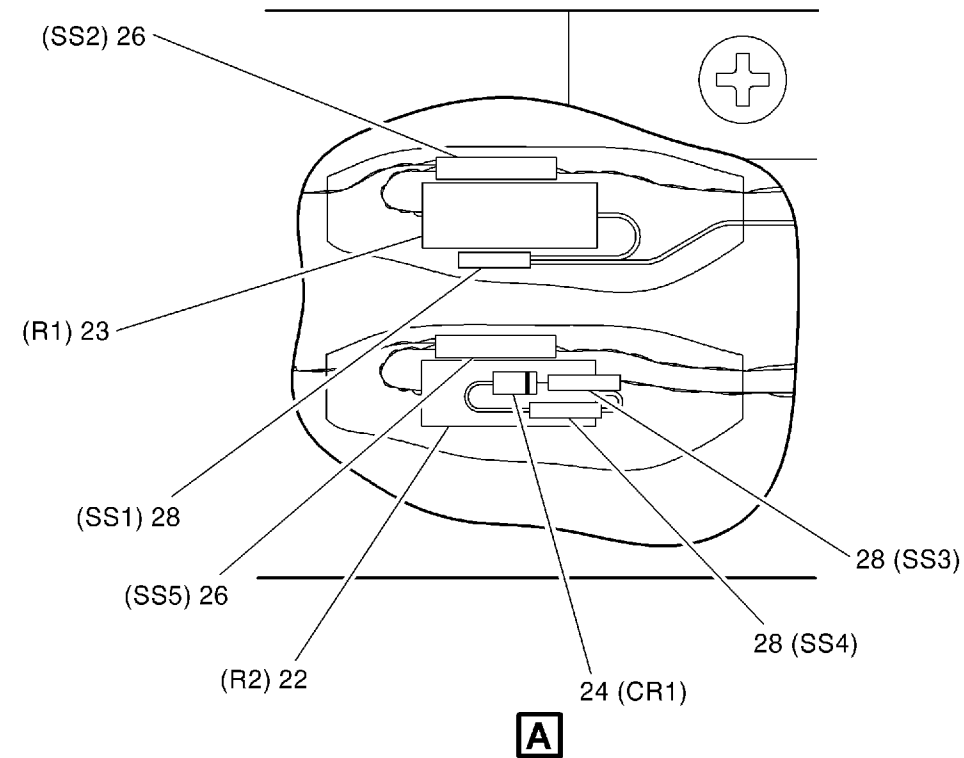
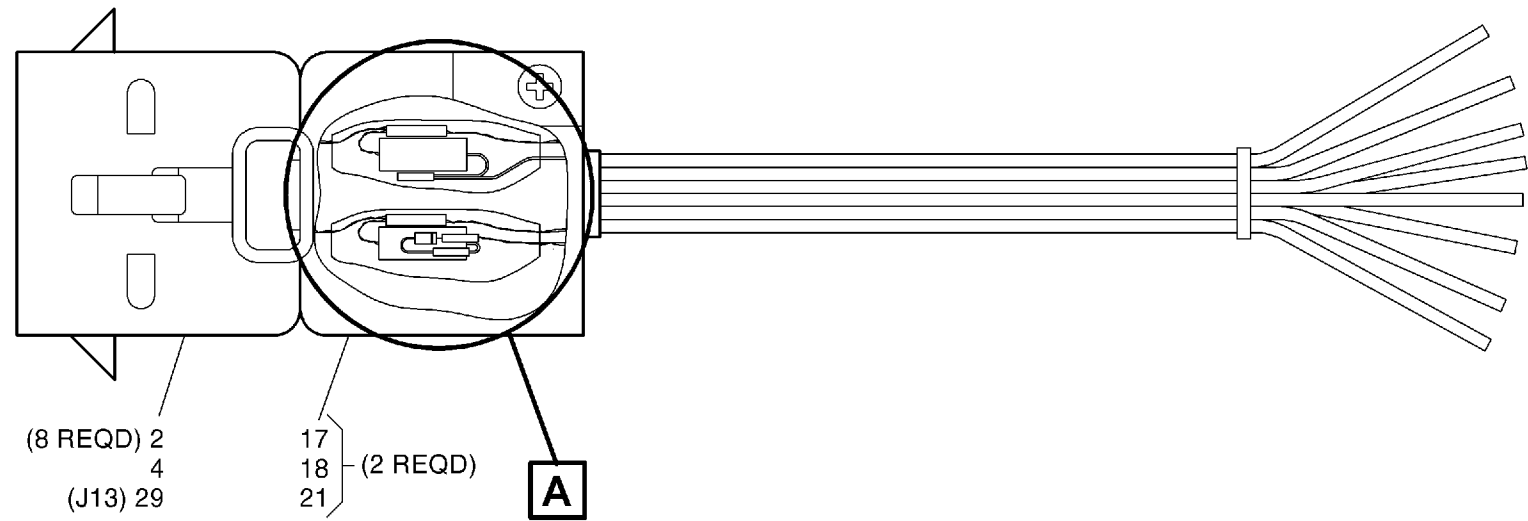
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NOTE:
Part designations are for reference only and do not appear on parts.
Prefix designations with A12W7. For example, R1 is A12W7R1.

IPL Figure 18. Lead Assembly (7511474-902)

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<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
18 - 1	7511474-902		LEAD ASSEMBLY (SEE FIG. 4 ITEM 18 FOR NHA)		RF
R	2	350536-1	.CONTACT, SOCKET- REEL (V00779) (HPN 7500433-101) (PREFERRED PART)		8
R	- 2A	350550-1	.CONTACT, SOCKET- LOOSE (V00779) (HPN 7500433-102) (ALTERNATE PART)		8
	4	1-640415-1	.PLUG, KEYING (V00779) (HPN 7500350-1)		1
	17	1-640722-0	.STRAIN RELIEF AND ADAPTER (V00779) (HPN 7500351-5)		2
	18	641777-1	.STRAIN RELIEF AND ADAPTER (V00779) (HPN 7500351-1)		2
	21	MS24622-19	.SCREW (HPN 338026-19)		2
R	22	RW69V621	.RESISTOR, WIREWOUND 620 OHMS $\pm 5\%$ 3 W (V91637) (HPN 337708-92)		1
R	23	RW69V132	.RESISTOR, WIREWOUND 1300 OHMS $\pm 5\%$ 3 W (V91637) (HPN 337708-100)		1
R	24	2504875-2	.DIODE (ESDS) (REPL BY ITEM 24A)		1
R	- 24A	1N3595	.DIODE (V7D893) (HPN 2504875-2) (ESDS) (REPL ITEM 24)		1
	26	NAS1745-2	.SPLICE (HPN 2503668-1)		2

- Item Not Illustrated

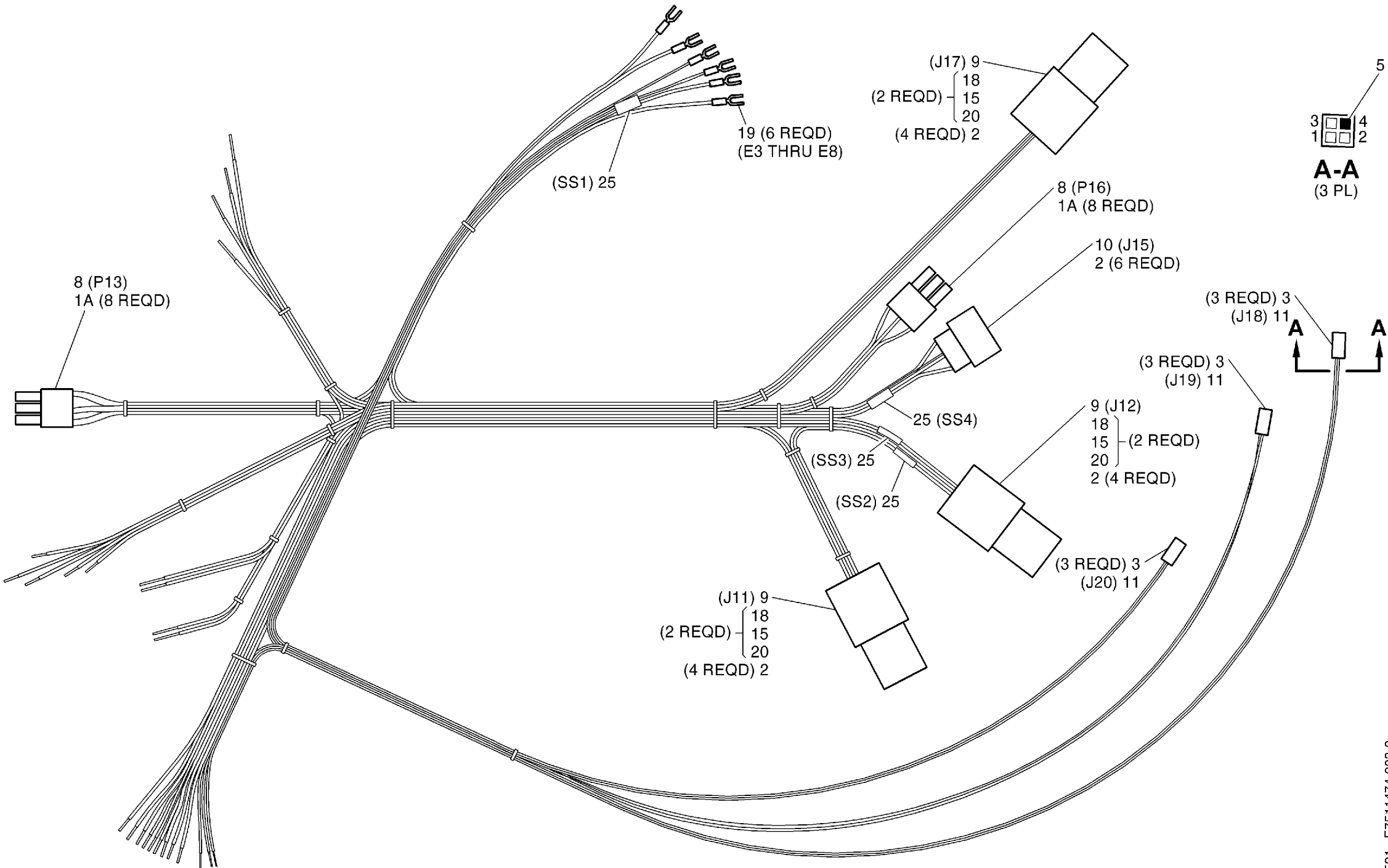
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Radio Test Interface Unit / Part No. 7511400

	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
R	18 28	D136-07		.SPLICE (V06090) (HPN 2501414) (REPL BY ITEM 28A)		3
R	- 28A	D701-00		.SPLICE (V06090) TRUE PN IS D-701-00 (HPN 2501414) (REPL ITEM 28)		3
	29	1-480707-0		.HOUSING AND CAP, CONNECTOR (V00779) (HPN 7500352-7)		1

- Item Not Illustrated



NOTE:
Part designations are for reference only and do not appear on parts.
Prefix designations with A11A1W3. For example, J11 is A11A1W3J11.

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IPL Figure 19. Harness Assembly (7511474-903)

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Radio Test Interface Unit / Part No. 7511400

<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
19 - 1	7511474-903		HARNESS ASSEMBLY (W3) (SEE FIG.12 ITEM 9 FOR NHA)		RF
R 1A	350218-1		.CONTACT,PIN- REEL (V00779) (HPN 7500433-1) (PREFERRED PART)		16
R - 1B	350547-1		.CONTACT,PIN- LOOSE (V00779) (HPN 7500433-2) (ALTERNATE PART)		16
R 2	350536-1		.CONTACT,SOCKET- REEL (V00779) (HPN 7500433-101) (PREFERRED PART)		18
R - 2A	350550-1		.CONTACT,SOCKET- LOOSE (V00779) (HPN 7500433-102) (ALTERNATE PART)		18
R 3	76804-27		.CONTACT (V22526) (HPN 7002730-3) (REPL BY ITEM 3A)		9
R - 3A	48046-000		.CONTACT (V22526) (HPN 7002730-3) (REPL ITEM 3)		9
R 5	65307-001		.PLUG (V22526) (HPN 7003467)		3
8	1-480706-0		.HOUSING AND CAP, CONNECTOR (V00779) (HPN 7500352-3)		2
9	1-480703-0		.HOUSING AND CAP, CONNECTOR (V00779) (HPN 7500352-5)		3

- Item Not Illustrated

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	<u>Fig.</u> <u>Item</u>	<u>Part</u> <u>Number</u>	<u>Airline</u> <u>Stock No.</u>	<u>1234567</u> <u>Nomenclature</u>	<u>Eff</u> <u>Code</u>	<u>Units</u> <u>Per</u> <u>Assy</u>
	19 10	1-480705-0		.HOUSING AND CAP, CONNECTOR (V00779) (HPN 7500352-6)		1
R	11	65043-035		.HOUSING (V22526) (HPN 7002851-4)		3
	15	641775-1		.STRAIN RELIEF AND ADAPTER (V00779) (HPN 7500351-3)		6
	18	641777-1		.STRAIN RELIEF AND ADAPTER (V00779) (HPN 7500351-1)		6
R	19	BS41543F		.TERMINAL, SOLDERLESS SPADE (V14726) (HPN 7008565-2) OPT MFG PN V98410 A234-06X		6
	20	MS24622-17		.SCREW (HPN 338026-17)		6
	25	NAS1745-3		.SPLICE (HPN 2503668-2)		4

- Item Not Illustrated



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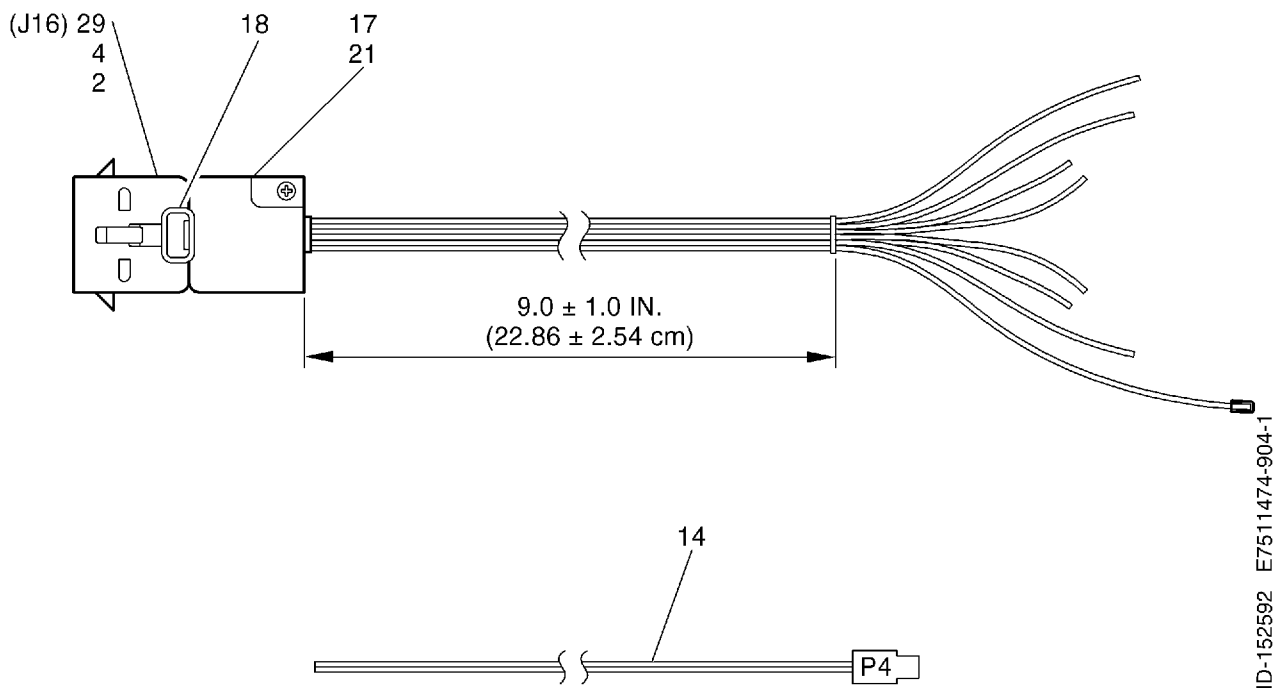
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IPL Figure 20. Lead Assembly (7511474-904)

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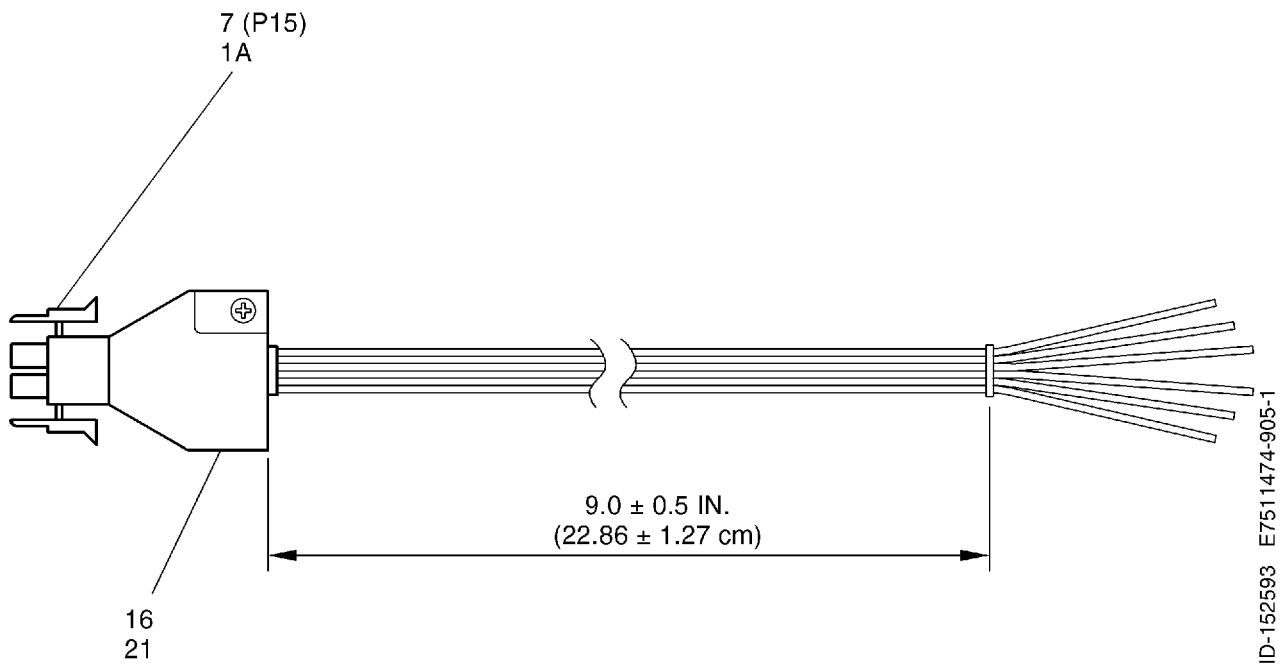
<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
20 - 1	7511474-904		LEAD ASSEMBLY (W4) (SEE FIG.9 ITEM 43 FOR NHA)		RF
R 2	350536-1		.CONTACT, SOCKET- REEL (V00779) (HPN 7500433-101) (PREFERRED PART)		8
R - 2A	350550-1		.CONTACT, SOCKET- LOOSE (V00779) (HPN 7500433-102) (ALTERNATE PART)		8
4	1-640415-1		.PLUG, KEYING (V00779) (HPN 7500350-1)		1
R 14	5505		.PLUG AND CORD ASSEMBLY (V23936) (HPN 7500349-1)		1
17	1-640722-0		.STRAIN RELIEF AND ADAPTER (V00779) (HPN 7500351-5)		2
18	641777-1		.STRAIN RELIEF AND ADAPTER (V00779) (HPN 7500351-1)		2
21	MS24622-19		.SCREW (HPN 338026-19)		2
29	1-480707-0		.HOUSING AND CAP, CONNECTOR (V00779) (HPN 7500352-7)		1

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IPL Figure 21. Lead Assembly (7511474-905)

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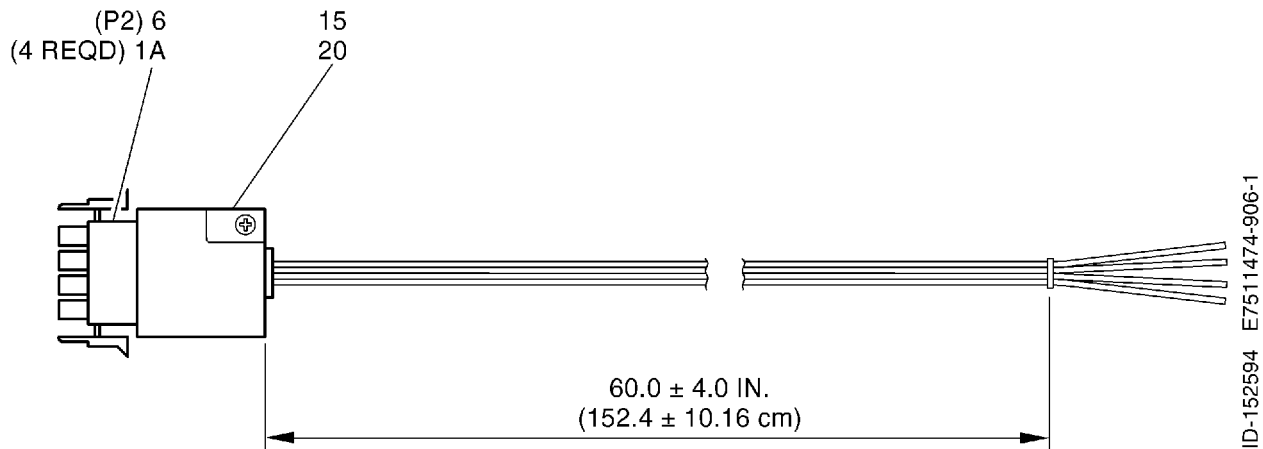
<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
21 - 1	7511474-905		LEAD ASSEMBLY (SEE FIG.3 ITEM 2 FOR NHA)		RF
R 1A	350218-1		.CONTACT,PIN- REEL (V00779) (HPN 7500433-1) (PREFERRED PART)		6
R - 1B	350547-1		.CONTACT,PIN- LOOSE (V00779) (HPN 7500433-2) (ALTERNATE PART)		6
7	1-480704-0		.HOUSING AND CAP, CONNECTOR (V00779) (HPN 7500352-2)		1
16	1-640721-0		.STRAIN RELIEF AND ADAPTER (V00779) (HPN 7500351-4)		2
21	MS24622-19		.SCREW (HPN 338026-19)		2

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IPL Figure 22. Lead Assembly (7511474-906)

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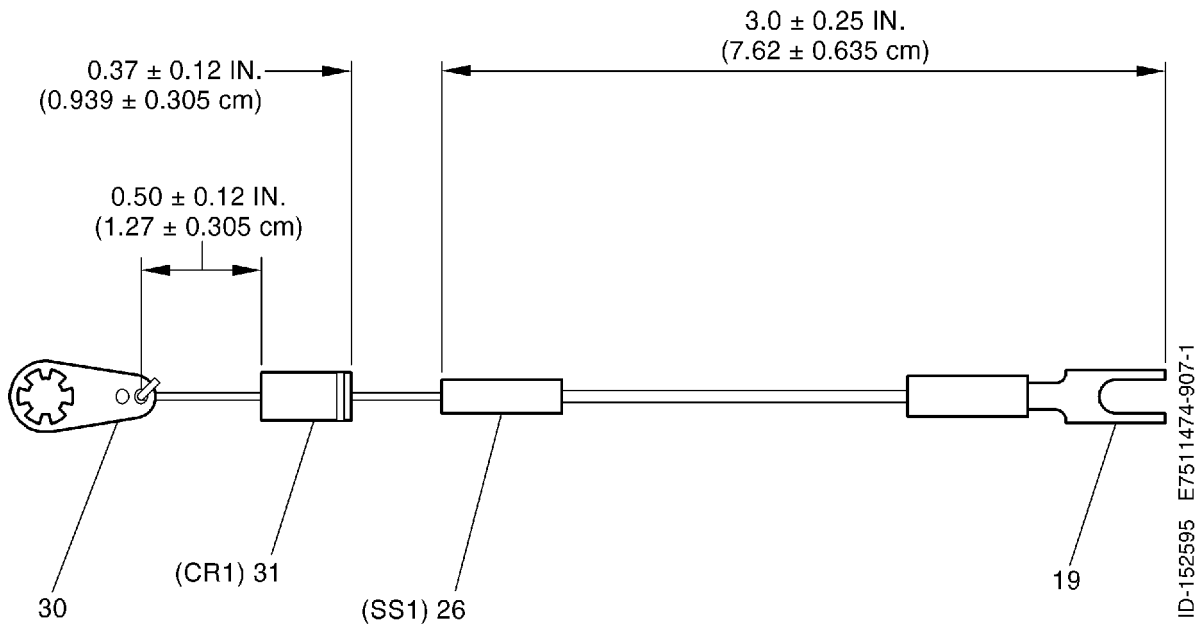
<u>Fig. Item</u>		<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
22 -	1	7511474-906		LEAD ASSEMBLY (SEE FIG.1 ITEM 24 FOR NHA)		RF
R	1A	350218-1		.CONTACT,PIN- REEL (V00779) (HPN 7500433-1) (PREFERRED PART)		4
R	- 1B	350547-1		.CONTACT,PIN- LOOSE (V00779) (HPN 7500433-2) (ALTERNATE PART)		4
	6	1-480702-0		.HOUSING AND CAP, CONNECTOR (V00779) (HPN 7500352-1)		1
	15	641775-1		.STRAIN RELIEF AND ADAPTER (V00779) (HPN 7500351-3)		2
	20	MS24622-17		.SCREW (HPN 338026-17)		2

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IPL Figure 23. Lead Assembly (7511474-907)

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<u>Fig. Item</u>	<u>Part Number</u>	<u>Airline Stock No.</u>	<u>1234567 Nomenclature</u>	<u>Eff Code</u>	<u>Units Per Assy</u>
23 - 1	7511474-907		LEAD ASSEMBLY (SEE FIG.9 ITEM 46 FOR NHA)		RF
R 19	BS41543F		.TERMINAL,SOLDERLESS SPADE (V14726) (HPN 7008565-2) (SEE FIG. 19 ITEM 19 FOR OPT MFG PN)		1
	26 NAS1745-2		.SPLICE (HPN 2503668-1)		1
R 30	MS77068-3		.TERMINAL (HPN 093-15)		1
R 31	1-5KE47A		.DIODE (V12954) TRUE PN IS 1.5KE47A (HPN 4007038-47) (ESDS) OPT MFG PN V14936 1-5KE47A V1MQ07 1N6287A		1

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