T-36C PORTABLE CAT III NAV/COMM TEST SET

The T-36C is a ruggedized, user-friendly, high-precision instrument for rapid functional testing of VOR, LOC/GS, MB and mid-high-VHF AM/FM COMM avionic equipment. The T-36C can be operated in either the knob/switch mode. This provides an operator with accurate go-no-go testing on the flight line or full function testing and diagnostics on the bench in keyboard mode. Further flexibility is provided by the T-36C's ability to store three pre-selected carrier frequencies and output power levels for each operational mode. The keyboard provides complete control of most parameters, resulting in a high level of unit flexibility.

P/N 90 000 077

T-36C:

- Checks VOR, GS, LOC, MB, VHF COMM, Flight Director, and Autopilot
- Generates ILS signals to ICAO Annex 10 CAT III precision
- Operates in Shop, on Ramp, and in Cockpit
- VHF TX Measurements
  - Direct connect—Power, frequency, VSWR, and modulation
  - Over-the-air— Frequency and modulation (AM/FM)
  - Control of modulation output—level and tones
- Preset (user programmable) or keyboard control of frequency
- Control of RF output for sensitivity measurement
- High RF output allows testing from flight deck of VHF COM, VOR Localizer, Glideslope, Marker Beacon
- VOR bearing selectable in 45º increments
- Switch slewing of VOR bearing for "sticky" flag checks
- Switch slewing allows check of full scale deflection
- Capable of deleting 30 or 9960 Hz modulation for flag checks.
- Antenna-to-antenna or direct connect (coax)
- US and European frequencies with 8.33 KHz channels
- Meets requirements of MIL-PRF-28800F
- Two-year limited warranty; 5 and 10 year warranties available
- Backed by 40 years experience in the manufacture of electronic test equipment for military and commercial aviation worldwide.

NAV MODES:

- VOR
- LOC
- GS
- MB
- ILS
- ILS/MB

COMM MODES:

- RCVR test
- XMTR test.

Phone: 816-246-4500 Toll-free: 800-580-AERO (2376)
Fax: 816-246-1452 www.aeroexpress.com

"Your Test Equipment Solution"

SPECIFICATIONS
(standard condition values)

SIGNAL GENERATOR

NAV/COMM FREQUENCIES (MHz)	TOGGLE/ROTARY SELECT			KEYBOARD SELECT
MB	74.50	75.00	75.50	74.5000 to 75.5000
VOR	108.00	108.05	117.95	108.0000 to 117.9500
LOC	108.10	108.15	110.15	108.1000 to 111.9500
GS	334.70	334.55	334.25	329.1500 to 335.0000
mid VHF -1	108.00	113.00	118.00	108.0000 to 118.0000
mid VHF -2	118.00	137.00	156.00	118.0000 to 156.0000
high VHF	156.00	165.00	174.00	156.0000 to 174.0000

NAV SIGNALS		
VOR	0, 45, 90, 180, 225, 270, 315 degrees	0 to 359 deg, 1 degree steps, delete 9960 Hz or 30 Hz variable
LOC	OC, L1, L2, R1, R2 dots	0 to 0.200 DDM left and right, 0.001 DDM steps, delete 90 or 150 Hz
GS	OC, U1, U2, D1, D2 dots	0 to 0.400 DDM up and down, 0.001 DDM steps, delete 90 or 150 Hz

OUTPUT LEVELS	FUNCTION		RANGE
Carrier	Direct connect	- MB,VOR/LOC,COMM	- 130 to - 25 dBm, 1 dB steps
		- GS	- 130 to - 30 dBm, 1 dB steps
	Ramp	- MB	- 70 to +13 dBm, 1 dB steps
		- VOR/LOC	- 77 to + 6 dBm, 1 dB steps
		- GS/COMM	- 83 to 0 dBm, 1 dB steps
Modulation	VOR REF & VAR (9960 & 30 Hz)		29 to 31 %
	VOR/LOC (1020Hz)		9 to 11%
	LOC on Course		19 to 21%
	LOC (0.4 DDM)		38 to 42%
	GS on Course		39 to 41%
	GS (0.8DDM)		78 to 82%
	MB (400, 1300, 3000 Hz)		92 to 98%
	COMM AM (150 or 1000 Hz)		0 to 95% ± 5%
	COMM FM (1000 Hz)		1 to 10 KHz ± 1 KHz

COMM TRANSMITTER MEASUREMENTS

RF Carrier	- range	See NAV/COMM frequencies
	- frequency range	± 8 KHz from selected frequency
	- frequency accuracy	± 500 Hz
	- power	0 dBw to +14dBw ± 1 dB. (1 to 25 watts)
Modulation VSWR 1.00 to 4.99 ± 0.5	- AM	0 to 99% ± 5% full scale
	- FM	0 to 15 KHz ± 1 KHz

COMM TRANSMITTER MEASUREMENTS

Case	MIL-PRF-28800F
Size	14.5 x 9.4 x 6.5 inches
Weight	19 pounds
Power	NiCad batteries (built in charger) & 100 or 240 VAC, 50 to 400 Hz
Tempera- ture	-51C to +71C storage; -30C to +50C operating

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