

TELEX COMMUNICATIONS, INC.

9600 Aldrich Ave. So., Minneapolis, MN 55420 U.S.A.

**MODELS 66T AND 66TRA
DYNAMIC MICROPHONES
FAA APPROVED TSO-C58**

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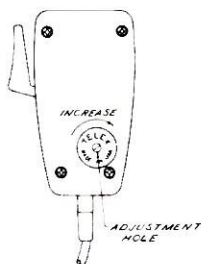
GENERAL DESCRIPTION

The Model 66T microphone is designed for voice communication applications requiring a rugged, hand held microphone. Its noise cancelling design makes it particularly effective for use in noisy locations, and its excellent voice response characteristics make it a good choice in quiet areas as well. It is approved by the Federal Aviation Agency under T.S.O.—C58 for use in aircraft.

The 66T contains a dynamic microphone cartridge of the differential type, which discriminates against distant sounds in favor of sounds originating close to the microphone. The output of the cartridge is amplified by a 2-stage transistorized amplifier, an exclusive Telex design with high gain, exceptional stability, and outstanding tolerance to variations in supply voltage and load resistance. The output of the amplifier is adjustable with a screwdriver via a small hole in the back, making it possible to adjust for full usable output of the associated transmitter or amplifier.



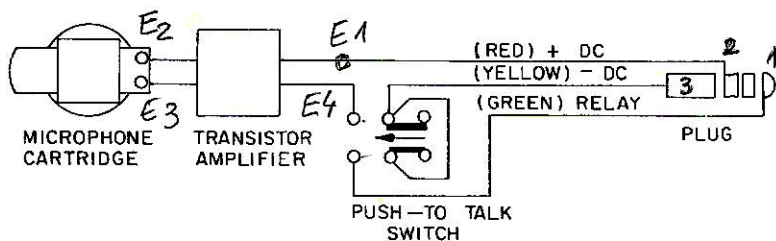
Installation: The mounting bracket included with the microphone should be permanently mounted in a convenient location on or near the associated equipment using the hardware supplied. Two holes 0.140" (9/64," 3.6mm) diameter 1" (25mm) apart are required. The 66T will also fit on comparable mounting brackets made by other manufacturers. In cases where the 66T is a direct replacement for a high output microphone, direct plug-in replacement is usually all that is needed. When replacing medium output microphones, it may be necessary to reduce the output of the 66T. This is easily done by talking into the microphone while watching the output of the equipment on an oscilloscope. The output of the microphone is adjusted with a small screwdriver through the hole in the back of the microphone, watching for absence of clipping on peaks. It is suggested that the 10 o'clock position of the gain control slot be tried first, taking full gain to be 2 o'clock.



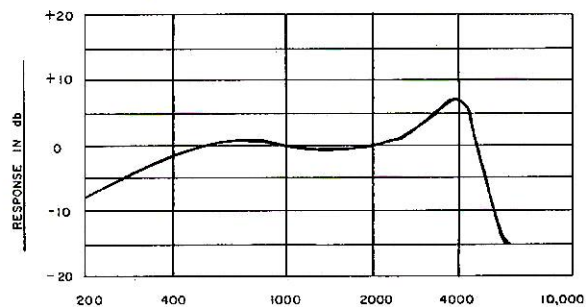
If it is desired to close off the adjustment hole to prevent tampering, peel off the paper backing on the round silver colored label packed with the microphone and press it into place over the hole and existing label.

IMPORTANT: ALWAYS TALK CLOSE TO THE MICROPHONE, upper edge of microphone touching the upper lip is best. This is necessary because the noise cancelling feature favors sounds close to the microphone and discriminates against sounds only ½" (12.7mm) away.

The 66T is a rugged instrument but, as with any precision device, it is not advisable to drop it or expose it to severe mechanical shock.

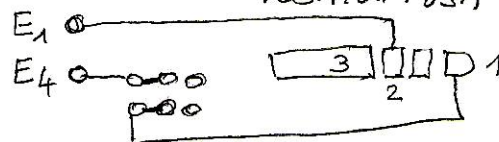


WIRING DIAGRAM



FREQUENCY RESPONSE

Position Push



SPECIFICATIONS:

Type: Noise-cancelling dynamic with 2-stage transistorized amplifier

Response: 100 to 5000 Hz

Output: -48 dB RE: 1 volt/microbar at 1 kHz 1/4" (6.4mm) from microphone with 100 ohm load and 12 volt supply.

Impedance: Recommended load 50 to 600 ohm

Supply Voltage: 8 to 30 volts d.c.

Current Requirements: 15 mA at 12 volts, 100 ohm load
30 mA at 24 volts, 100 ohm load

Switch: Microphone contacts normally open, relay contacts normally open.

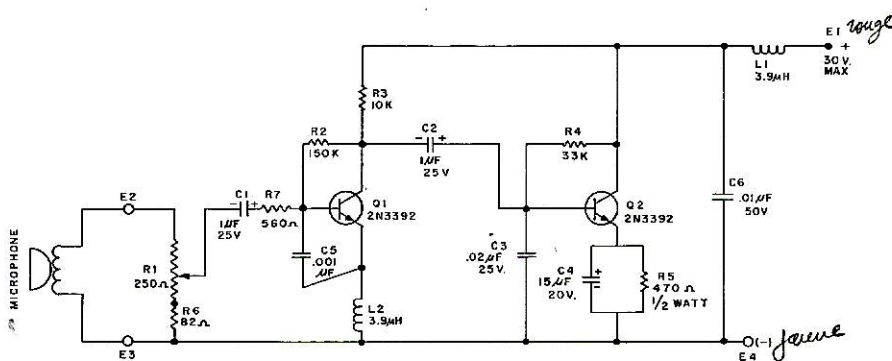
Cable: Three conductor, unshielded, black. Coiled cord extends to 5 feet (1.5m). Termination: 0.206" (5.23mm) dia. plug, choice of straight (PJ-068) or right angle (molded-on PJ-068 equiv.). Jack required Switchcraft S-12B or equivalent.

Dimensions: 3-3/4" high x 2" wide x 1-1/4" deep (96mm x 51mm x 29mm)

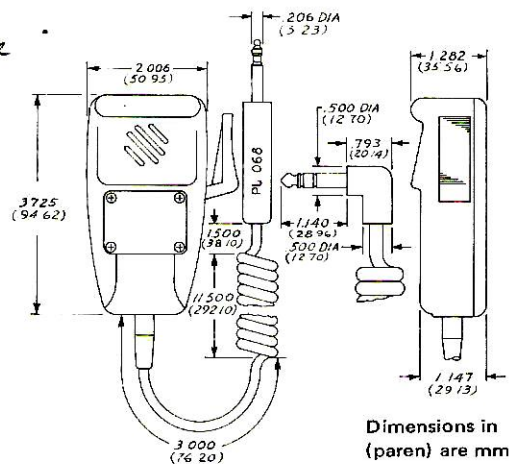
Weight: 9 ounces (0.25 kg)

Case: High impact plastic

Hanger: (Included) Stainless Steel, with mounting bracket and hardware furnished. Catalog No. 61506-000



SCHEMATIC OF TRANSISTOR AMPLIFIER



OUTLINE DRAWING

ORDERING INFORMATION

66T (with PJ-068 straight plug) Catalog No. 60837-001

66T-RA (Right angle molded-on plug equivalent to PJ-068) Catalog No. 60837-008