

Model 500T Electret Microphone



The Model 500T is a noise-canceling aviation microphone. It consists of an electret microphone, amplifier, and push-to-talk switch in a rugged plastic housing. A hanger bracket and mounting hardware are supplied with the microphone. The 500T is extremely resistant to interference, hum, and squealing induced by 400 Hz power systems. It is approved under the Federal Aviation Agency TSO-C58.



Features

- **Noise Cancellation** - The 500T provides the best noise cancellation when the user holds the top of the microphone very close to the mouth and speaks in a normal voice. A position at one side of the mouth is best to minimize popping, hissing and breathing sounds when speaking. The noise cancellation duct on the back of the microphone (see dimension drawing) should not be obstructed during use.
- **Microphone Gain Adjustment** - A microphone gain trimmer is accessible through the side of the microphone housing by removing a small covering label. Clockwise rotation of the trimmer increases output. The cover label should be replaced when finished. Adjustment by a qualified avionics technician is recommended, as excessive output can cause transmitter overload distortion.

Specifications

Frequency Response:

100–8000Hz, shaped for best intelligibility

Sensitivity:

-45dB re: 1V/ μ bar at 1kHz, 12Vdc supply, 150- Ω load

Impedance:

Matches 50–600 Ω

Amplifier:

Gain adjustable over approximate \pm 5dB range; 8–30Vdc supply voltage required; Current 15mA at 12Vdc while PTT switch is pressed, 1.4 mA when not pressed.

Weight:

6.5oz (184g)

Switching:

PTT switch activation turns on amplifier and brings PTT to ground

Cord:

Coiled, three-conductor, black; retracted length, 11 inches (279mm); extended length, 5 feet (1.5m)

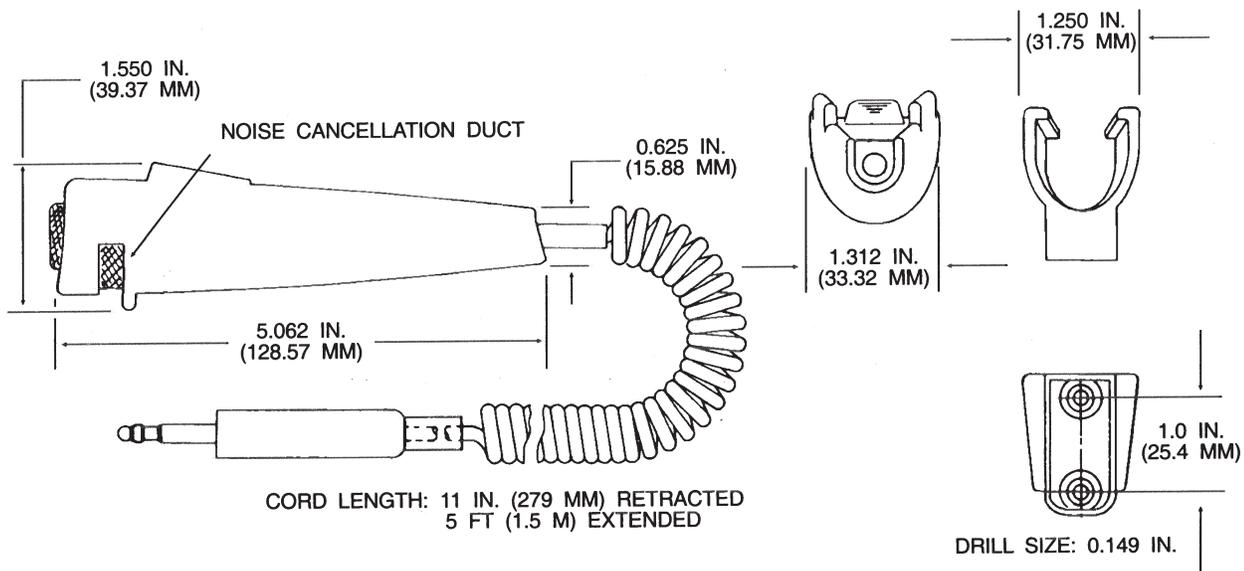
Plug:

PJ-068

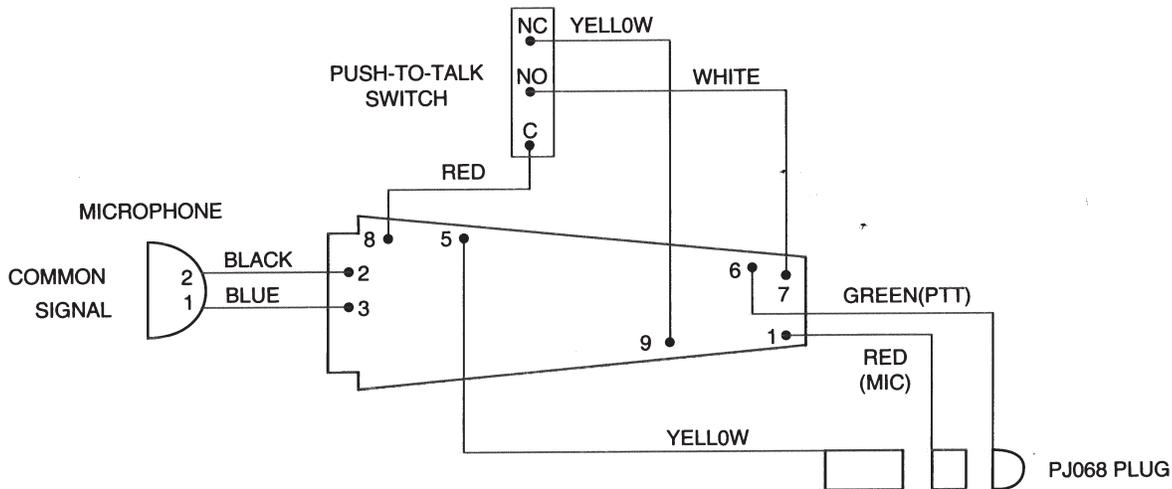
FAA Approval

TSO-C-58

Dimension and Wiring Diagrams



Dimensions



Wiring Diagram

Order Information

- 63333-000 • Model 500T • 500T ELECTRET HAND MIC FAA-TSO

The specification information is subject to change without notification.
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