

Model 344

Audio Control Panel

2009 Data Sheet

COBHAM

The most important thing we build is trust

The Model 344 Audio Control Panel has been designed for today's modern fighter trainer aircraft. It provides cockpit audio control functions for one pilot, with additional interphone capability for a RAMP (ground) operator. All audio signal management and processing is done in the Model 344, eliminating the need for a remote mounted audio management unit. This provides reduced acquisition and installation costs, and reduced system weight without sacrificing any system performance.

The Model 344 is capable of receiving input from up to 9 receivers, 5 auxiliary (AUX) unswitched inputs, a pilot headset microphone, and a RAMP operator microphone. The pilot interphone microphone is voice activated (VOX) or keyed and the RAMP operator interphone microphone is keyed. The Model 344 includes Dynamic VOX (DVOX) noise reduction circuitry to prevent unwanted noise detected by the operator's microphone from entering the interphone system. A bi-directional interphone line provides intercom capability between multiple Model 344 Audio

Control Panels. Support is provided for two headphones; one for the pilot operator and one for the RAMP operator.

The Model 344 also supports four transceivers with HOTAS (Hands On Throttle And Stick) capability, and has CVR and VCR audio outputs. An integrated aural warning generator circuit, with 18 warnings, is contained within the Model 344 to play pre-recorded voice or tone warnings to the pilot operator. Aural warning queuing enables the generator to play multiple active warnings in order of warning priority stored in the queue.

The Model 344 also provides EMERGENCY and BACKUP modes of operation to allow continued (limited) operation in the event of a failure in the main circuits.

The pilot and RAMP microphone inputs are amplified dynamic microphone compatible. For compatibility with non-amplified dynamic microphones such as military M-87 or M-101 types, a microphone adapter such as the Model 263 Microphone Amplifier will be required. The pilot mic input is provided for connection of a

headset boom type microphone for transmitter and interphone communications. Pilot mic VOX/DVOX threshold level is adjusted by rotating the VOX control knob. The RAMP mic input is designed for interphone use only.

Two headphone outputs have the capability to interface to standard commercial pilot or military headphones with a maximum load rating as low as 4 ohms. The pilot and ramp headphone outputs are driven by separate amplifiers. The pilot headphone amplifier feeds two outputs, one for 150 ohm to 600 ohm headphones and another for 8 ohm phones. For training applications, a Receiver Mute function is provided that enables all radio inputs to the pilot's headphone to be muted, allowing the instructor to speak directly to the student without radio audio interruptions.

The Model 344 is designed with a flexible control and front panel configuration for a variety of customer specific operational needs. The front edge lit panel is available with NVIS (Night Vision Compatible) or standard incandescent lighting.



Features:

- Radio specific on/off volume controls
- VOX and Keyed interphone
- Dynamic VOX (DVOX) noise reduction circuitry
- HOTAS capability
- Integrated aural warning generator
- NVIS compatible lighting (optional)
- Integrated ICS CALL system
- Receiver Mute function
- EMER and Backup modes
- CVR output
- Recorder output
- Aural warning queuing

Mechanical:

Height 2.25" Width 5.75"
Weight 2.2 lbs. (max.) Depth 5.00" excluding mating connectors

Compliance:

TSO-C139, D0-214 and DO-160E
Env. Cat. [(A2)(F2)X]BBB[(RBB1)(U2FF1)(SC)]XRDFSZ[BZ]AZA[RR]M[XXC4X]XXAX

Model 344 Audio Control Panel(s) are currently subject to US International Traffic in Arms Regulations (ITAR). They may not be exported, transferred, transshipped, or otherwise disposed of in any other country either in original form or after being incorporated into other articles without prior written approval of the US Department of State.

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