

GENTEX®

USER MANUAL

F-35

Intercom Adapter

(Harris Radio Compatible)



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Overview

Harris radio variant communication headsets (DANR THPC P/N 05-005003 or Argonaut DHPC P/N 05-005061) are able to connect directly to the F-35 Maintainer Interface Panel using the headset specific intercom cable adapter terminated with a U-77 connector. The cable incorporates an independent volume control to manage incoming communications levels. This cable design permits the user to alternate between compatible Harris radios and the F-35 intercom interface by disconnecting the headset from one interface and connecting to the other, without removing or changing headsets, “hot-swap.”

The DANR and Argonaut F-35 Intercom Adapter Cables are unique to each headset. The Argonaut cable is marked for “ARGONAUT USE ONLY.” The DANR cable is not marked.

Features

- All cast aluminum construction provides robust performance in harsh environments
- Allows “hot-swap” capability between compatible Harris radios (P7100, MRK, MPA) and the F-35 Maintainer Interface Panel
- Integrated volume knob allows user to control incoming communications levels
- A tethered protective cap keeps the headset connection point clean and free of debris when not in use
- Standard length is 12 feet, available in custom cable lengths up to 50 feet
- Integrated clothing clip allows the intercom adapter box to reside securely on the user, thus freeing hands for other tasks
- Yellow cable marker clearly indicates use with compatible Harris radio communications headsets (the headsets are also marked using yellow cable marker)
- The Argonaut F-35 Intercom Adapter has two yellow cable markers indicating “ARGONAUT USE ONLY”

Assembly

F-35 Intercom Adapter

Volume Control

F-35 Intercom Adapter Box

Cable Coil



U-77 Intercom
Connection

Tethered Headset Interface
Protective Cap On

Identification Markers

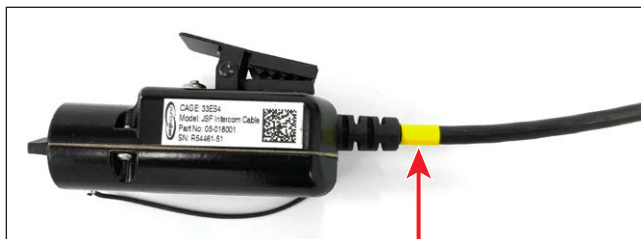
Argonaut F-35 Intercom Adapter



Yellow "ARGONAUT USE ONLY"
Identification Marker

Yellow Harris
Identification Marker

DANR F-35 Intercom Adapter



Yellow Harris
Identification Marker

Connecting a Headset

1. Remove the protective cap from the F-35 Intercom Adapter intercom box.
2. Grasp the Lemo connector of the Harris (P7100, MRK-II, MRK, MPA or MTL) compatible headset and insert the connector into the F-35 Interface Assembly Lemo receptacle. The connector is keyed, requiring the connector to be rotated when partially inserted until the connector falls into the keyway. Red dots on the connector and receptacle serve as a visual reference for proper orientation. Press the connector until it locks in place.



F-35 Intercom Adapter Box

3. Connect the U-77 end of the F-35 Intercom Adapter to the F-35 Maintainer intercom interface panel. This connector contains a bayonet style fitting to ensure proper orientation.



U-77 Connector End

Operation & Maintenance

Powering the Unit

The F-35 Intercom Adapter Cable does not have its own dedicated battery. Instead, it uses power from the headset battery for operation. Ensure the battery switch on the headset is in the ON position. For the DANR THPC headset, be sure the headset has completed its ANR initialization procedure before attempting to use the intercom adapter. For the Argonaut DHPC headset, a battery (P/N 05-005023) is required in place of the resistance pack (P/N 05-005090).

Volume Control

Once connected to the F-35 Maintainer interface panel, use the integrated volume control on the intercom adapter to adjust incoming communications in the ear to the desired level. Rotate the knob clockwise to increase the volume and counterclockwise to decrease the volume.

Storage

When not in use, ensure the tethered protective cap is placed on the F-35 Intercom Adapter box, Lemo connector receptacle to keep the connector protected from foreign debris.

Maintenance

The F-35 Intercom Adapter box, Lemo connector receptacle and U-77 connector should be cleaned to be free of debris. The cable connectors may be cleaned with canned air, isopropyl alcohol, and a soft, debris and lint free cloth.

The cable, connector, intercom adapter box, and all related parts should be inspected for cuts, wear, or damage. If any issue is identified, the F-35 Intercom Adapter should be replaced.

Compatibility

The F-35 Intercom Adapter is compatible with the following headsets:

F-35 Intercom Adapter			Compatible Headset	
Part Number	Description	Cable Color Marker	Part Number	Description
05-018001	DANR P7100 Intercom Adapter 12 Foot	Yellow	05-005003	DANR THPC
05-018017	Argonaut P7100 Intercom Adapter 12 Foot	Double Yellow (marked with "ARGONAUT USE ONLY")	05-005061	Argonaut DHPC for P7100

Compliant with sections of the following specifications:

MIL-STD-461 CS114, CS115, CS116, RE102, CURVE5, RS103 200v/m

MIL-STD-464

MIL-STD-1686 Test 25 HBM

MIL-STD-810

Replacement Parts

To reorder parts, please contact Gentex Corporation at (603) 657-1200, or e-mail sales@gentexcorp.com

The F-35 Intercom Adapter does not contain any field replaceable components.

Warning

This system is intended for use with headsets and earplugs. All warnings and cautions associated with the use of DANR THPC or Argonaut DHPC headsets should be heeded when using this product. Failure to do so may result in bodily harm.

Failure to comply with general safety precautions violates the safety intent of this product and may result in damage to the product or bodily harm. Gentex Corporation claims no liability for damage or injury resulting from a failure to comply with the safety precautions outlined in this manual.

Caution



The intercom box mounted Lemo connector receptacle should be clean and free of debris before inserting the headset connector in order to ensure maximum performance.



Do not swing the Intercom Adapter assembly by the cable. Cable may detach thus damaging the devices.



When not in use, store system in a clean location with protective cap in place.



The system is not rated for complete submersion. Avoid dropping, laying, dragging, or otherwise subjecting the system to complete immersion in water, oil, hydraulic fluid, or any other liquids.

Troubleshooting Steps

If you are unable to communicate when the F-35 Intercom Adapter cable is connected to a DANR or Argonaut Headset and the F-35 Maintainer Interface Panel:

- Inspect the connectors for dirt or debris and clean if necessary
- Check all of the connections are fully seated:
 - F-35 Intercom Cable to the headset
 - F-35 Intercom Cable to the F-35 Intercom
 - Earplug connectors into the connectors inside headset earcup(s)
- Make sure the correct eartips are on the earplugs, and that the earplugs are properly seated in the ear
- Make sure the digital noise cancelling mic is properly used. The mic should be close to the talkers lips when speaking. To transmit the voice press the Push To Talk (PTT) on the microphone boom or the muzzle
- Make sure the headset is turned on
- Make sure a battery (P/N 05-005023) is properly seated and attached to the headset not a resistance module (P/N 05-005090)
- Make sure the headset battery is fully charged
- Adjust the volume control for the F-35 Intercom Adapter Cable
- Check to be sure you have the correct cable for the headset you are using:
 - DANR headset (P/N 05-005003) can be used with F-35 Intercom Adapter cable (P/N 05-018001)
 - Argonaut headset (P/N 05-005061) can be used with F-35 Intercom Adapter cable (P/N 05-018017). Marked for “ARGONAUT USE ONLY”
- Inspect the F-35 Intercom Adapter cable for damage, and test for continuity. If damaged replace with correct variant

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