ANODYNE ELECTRONICS MANUFACTURING CORP.

SERVICE BULLETIN - OPTIONAL

Part No.: G13115, G13115NS, G13115R, G13115RNS, G13116, G13116NS, G13116R, G13116RNS

Description: **Audio Control Panel**	
Service Manual: **P139-HD**	Service Bulletin No.: **P139-HD-603-0002**
ECO No.: **ECO1263**	Subject: **Faceplate Replacement**

Prepared By:	Checked By:	Approved By:
Derrick Formosa, Mech. Designer March 4, 2026	Nathan Meade TS Manager 04-MAR-2026	Johnathon White Program Manager 04-Mar-2026

1. Planning Information

1.1 Applicability

This Service Bulletin is applicable to all G13115, G13115NS, G13115R, G13115RNS, G13116, G13116NS, G13116R, G13116RNS Audio Control Panels that require Faceplate replacement.

1.2 Reason

To provide instructions for the optional replacement of the front Faceplate. Replacement can be due to Faceplate damage or a system configuration modification.

1.3 Description

This Service Bulletin gives instructions to remove the existing Faceplate and install the direct replacement or updated configuration. The procedure includes:

- Removal of existing Faceplate.
- Label creation and Installation (for Audio Control Panels that are modifying the configuration)
- Installation of Replacement Faceplate.
- Function Check of the Reinstalled Audio Control Panel.

1.4 Compliance

This Service Bulletin is optional for customers. This change may be performed on all units by authorized maintenance personnel only.

1.5 Approval

No change to existing approval.

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1.6 Costing

This modification incorporates customer requests which does not constitute changes to correct a malfunction. The modification is therefore not subject to warranty considerations.

1.6.1 Parts and Labour

Half (0.5) an hour estimated. Please contact AEM Technical Support for current parts pricing.

The following items are required to complete a faceplate replacement:

Part Number	Manufacturer	Description	Qty
LOCTITE® 242	Henkel Adhesives	Medium Strength Thread locker	As Required
LOCTITE® 425	Henkel Adhesives	Low Strength Thread locker	As Required
Faceplate	AEM	* See configuration chart below for compatibility	1

Audio Control Panel Product	Required Faceplate
G13115	G13115-900-XXXXX-X [A]
G13115R	
G13115RNS	G13115NS-900-XXXXX-X [A]
G13115NS	
G13116	G13116-900-XXXXX-X [A]
G13116R	
G13116NS	G13116NS-900-XXXXX-X [A]
G13116RNS	

1.7 Equipment Required for Faceplate Replacement

The following tools are required to complete faceplate replacement:

Part Number	Manufacturer	Description
05008712001 [B]	WERA	Phillips Screwdriver, #1 Tip, 8" Blade, 11.7" Overall
05110010003 [B]	WERA	Flathead Screwdriver, 1/4" Slotted, 6" Overall
7400A11 [B]	McMaster Carr	Hex Screwdriver, 0.050" Hex, 4.1” Overall

1.8 Weight and Balance

Not affected.

1.9 Electrical Load Data

Not affected.

[A] Faceplate part number ending (-XXXXX-X) defines the specific Audio Control Panel configuration. A new configuration number may be assigned for configuration modifications, ensure to confirm with AEM Technical Services when ordering replacement Faceplates.

[B] An approved equivalent may be substituted.

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1.10 References (Use Latest Revision)

GA212-3	Bell 204-412 Install Manual	
GA212-4	EC145 Install Manual	
GA182-7	P139-HD AS350-355 Audio System Installation Manual	
GA182-8	P139-HD Bell 206-407 Audio System Installation Manual	
GA182-11	P139-HD EC135 Audio System Installation Manual	
GA182-13	Installing New P139-HD Configuration Files.	
ICA182-2	AS350-AS355	(EUROCOPTER AS350/AS355 HELICOPTERS)
ICA182-3	206-407	(BELL 206, 206L & 407 HELICOPTERS)
ICA182-5	EC135	(EUROCOPTER EC135 SERIES HELICOPTERS)
ICA212-1	Bell 204-412	(BELL 204/205/212/214/412 SERIES HELICOPTERS)
ICA212-3	EC145	(EUROCOPTER BK117 (EC145) SERIES HELICOPTERS)

1.11 Other Publications Affected

None.

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2. Modification Procedure for Faceplate Replacement

Reference the appropriate Installation Manual listed under References Section 1.10 of this Service Bulletin for additional information as required.

Note: If the Faceplate is being replaced due to a system configuration modification, the corresponding configuration file must be loaded into the Audio Router via memory card in accordance with GA182-13 prior to returning the aircraft to service.

2.1 Faceplate Removal

2.1.1 Per Figure 1, release the four DSUZ fasteners for the Audio Control Panel with a 1/4” flathead screwdriver. Carefully pull the Audio Control Panel Forward from the mounting location. Unplug connectors at the rear of the Audio Control Panel, noting connector positions for later reinstallation. Fully remove the Audio Control Panel from the DZUS rails and place on an appropriate surface to remove the Faceplate.

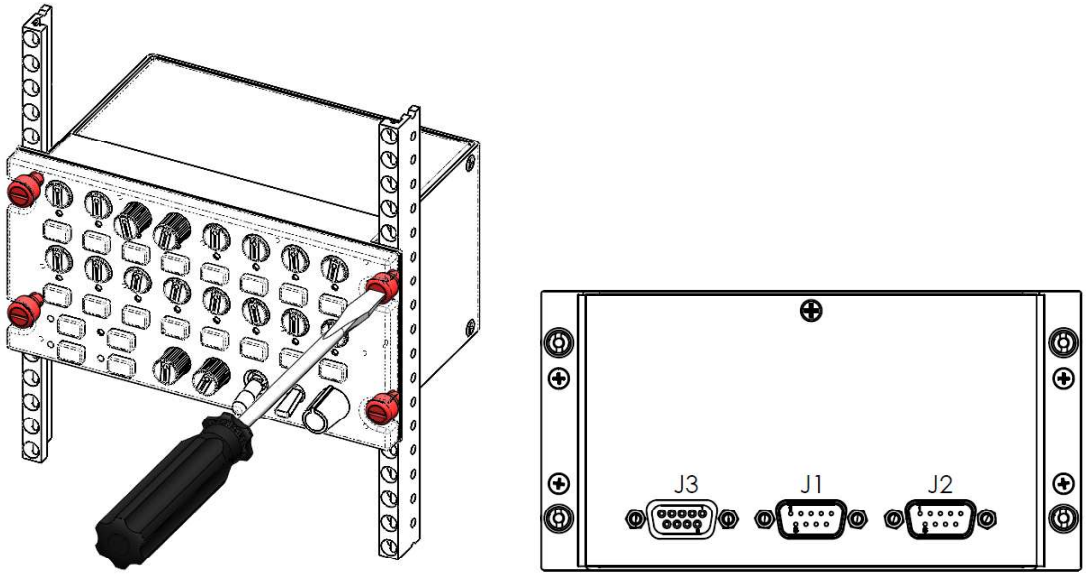


Figure 1 – DZUS Fastener Release / Disconnecting Connectors

2.1.2 Per Figure 2, loosen set screw on lower right knob with a 0.05” hex screwdriver, do not remove set screw from knob, slide the knob off the shaft.

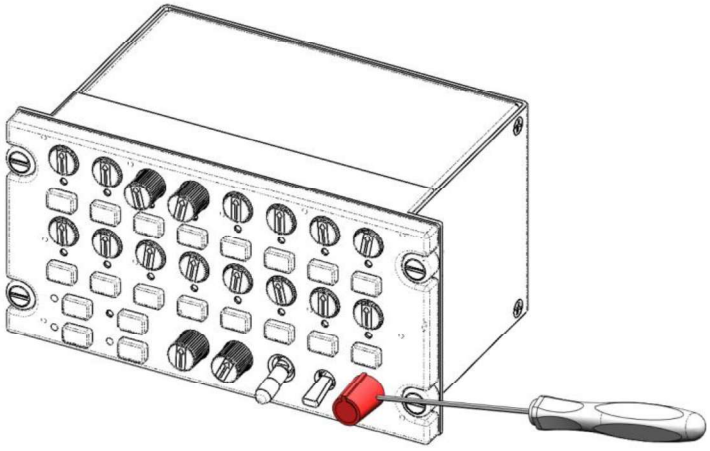


Figure 2 – Control Knob Removal

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2.1.3 Per Figure 3, Remove all screws from the rear flange holding the Faceplate to the Audio Control Panel. Screws are secured with Loctite 242 or Loctite 425. There are six Faceplate retention screws on G13116 versions and four on G13115 versions. Clean Loctite from screws and set aside for later reassembly.

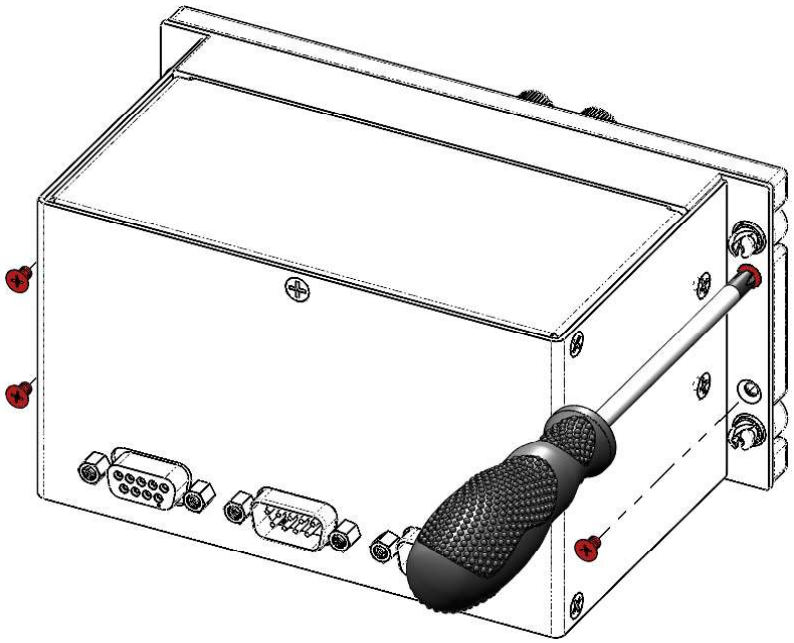


Figure 3 – Faceplate Flange Screw Removal

2.1.4 Per Figure 4, Pull faceplate ~1 inch away from the unit. Spread the locking tabs on the ribbon connector housing attaching the Faceplate to the front Bezel. Remove ribbon cable from Faceplate connector.

Note: The Faceplate may bind on knobs/switches. Carefully continue to pull with a small amount of force to remove.

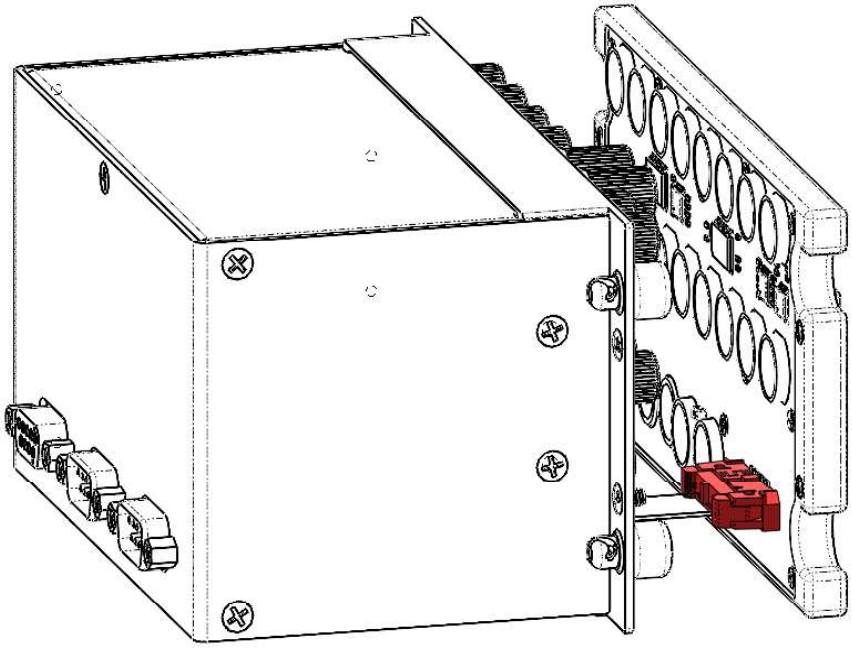


Figure 4 – Faceplate Connector

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2.2 Configuration Label Update (As Required)

2.2.1 If the configuration has been modified as part of the Faceplate replacement, create a supplemental configuration label with the following information and affix it to the Audio Control Panel in the suggested location shown in Figure 5:

- Name of Maintenance Facility
- Configuration Number (format: GXXXXXX-00XXX-X)
- Configuration Revision
- Date of Update

2.2.2 When updating the configuration of the Audio Control Panel, permanently strike out the superseded configuration on the original Product Label.

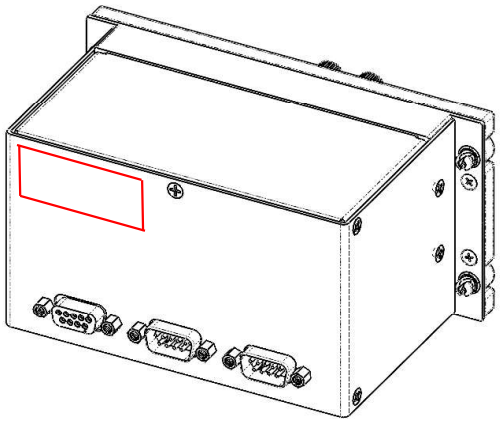


Figure 5 – Suggested Configuration Label Location

2.3 Faceplate Installation

2.3.1 Referencing Figure 4, attach loose end of ribbon cable to ribbon connector housing on new Faceplate, ensure locking tabs are fully engaged.

Note: When fitting the Faceplate onto Audio Control Panel, ensure ribbon cable feeds though hole in front bezel and does not get pinched by Faceplate during installation. Ideally the cable excess should be dressed into a “S” shape.

2.3.2 Attach Faceplate to Bezel using screws from step 2.1.3 (QTY 4 for G13115 models and QTY 6 for G13116 models). Reference the chart below for applicable thread locker. Torque to 4.5 in-lb.

LOCTITE® 242	LOCTITE® 425
G13115	G13115R
G13115NS	G13115RNS
G13116	G13116R
G13116NS	G13116RNS

Note: When using 242 Loctite, ensure that none comes in contact with the acrylic of the Faceplate. A small drop should be added to the screw threads only during assembly.

2.3.3 Referencing Figure 2, slide Knob onto shaft and tighten set screw with a 0.05” hex screwdriver. The white band shall be at 7 O’clock when fully CCW and 5 O’clock when fully CW. Check that Knob does not bind to faceplate.

Note: If Knob is binding, slightly loosen the set screw and pull the knob back ≈0.01” and retighten set screw.

2.3.4 Reconnect the rear connectors to the Audio Control Panel in the same positions from step 2.1.1.

2.3.5 Slide unit back into DZUS rail and engage the 4 DZUS fasteners.

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3. Modification Verification & Maintenance Recording

3.1 Functional Check Post Installation

3.1.1 Perform the Audio System Testing Sections 7.1 – 7.2 from the appropriate Instructions for Continued Airworthiness (ICA) based aircraft model. See the References section at the beginning of this Service Bulletin for a complete list of ICAs.

3.1.2 Perform final inspection of installation confirming:

(a) There are no mechanical interference issues.

(b) Security of fasteners.

(c) Removal of all tools.

(d) Aircraft is airworthy prior to returning to service

3.2 Aircraft Maintenance Records

3.2.1 Make appropriate aircraft maintenance record entries documenting compliance with this Service Bulletin, the installation of the new Faceplate, and the updated configuration file. Ensure the updated configuration sheet is appended to the aircraft's STC installation records.

End of Service Bulletin

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