



GDR-2556U

REVISION HISTORY FOLLOWS ON PAGE 2.

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APPROVAL:	NAME:	PURPOSE:	
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REVISION RECORD

Rev	Notes	Date	Author
B	Added Section 6.2 in order to capture Red Label Hardware Configuration Mods.	See Cover Page	M. Brown
A	Initial Release	01/13/2020	M. Brown

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1 PURPOSE

- 1.1 This document describes the Genesys Aerosystems, Inc. Digital NAV/COM Radio, model GDR-2556U.

2 PHOTOGRAPH / DRAWINGS

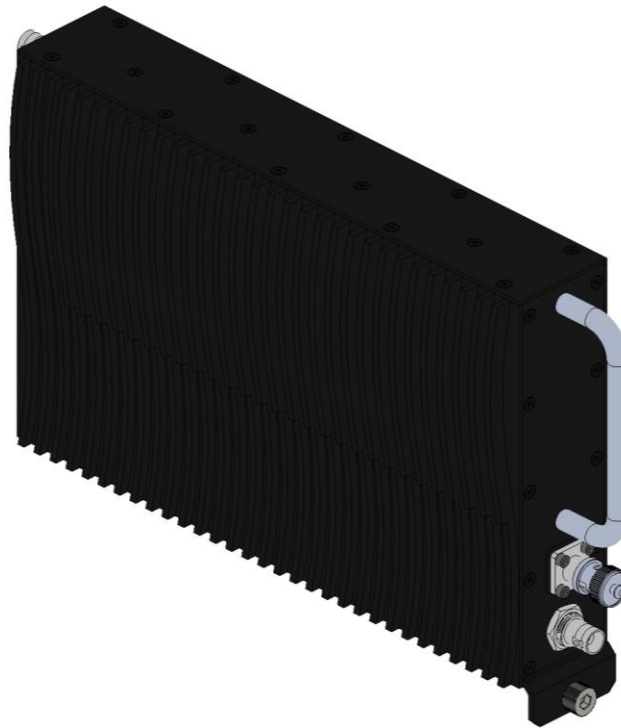


Figure 1 – GDR-2556U



Figure 2 – Nameplate Location

3 APPLICABLE DOCUMENTS

3.1 Genesys Aerosystems Documents

Document Number	Document Title
01-000077	System Requirements Specification / Software Requirements Document (SRS/SRD) For GDR
22-000065	GDR Software Configuration Index (SCI)
22-000069	GDR Configuration File Configuration Index
50-033008-0001	Final Assembly, GDR-2556U
50-033200-0001	Final Assembly, GDR
42-033100-0001	Installation Kit (may be shipped separately)
64-000109	GDR-XXXX NAV/COM Installation Manual
61-000173	GDR Calibration Procedure
61-000174	GDR Functional Test Specification
63-000295	Genesys Red Label Nameplate Drawing
63-000337	GDR-2556U Nameplate Drawing

3.2 Other Documents

Document Number	Document Title
TSO-C34e	ILS Glide Slope Receiving Equipment Operating Within Radio Frequency Range 328.6 To 335.4 Megahertz (MHz)
TSO-C35d	Airborne Radio Marker Receiving Equipment
TSO-C36e	Airborne ILS Localizer Receiving Equipment Operating Within Radio Frequency Range 108 To 112 Megahertz (MHz)
TSO-C40c	VOR Receiving Equipment Operating Within The Radio Frequency Range Of 108-117.95 Megahertz (MHz)
TSO-C128a	Equipment That Prevents Blocked Channels Used In Two-Way Radio Communications Due To Unintentional Transmissions
TSO-C169a	VHF Radio Communications Transceiver Equipment Operating Within Radio Frequency Range 117.975 To 137.000 Megahertz

4 LIST OF COMPONENTS

4.1 Black Label Production Units

The following table contains the components required for assembly. Refer to Figure 2 for placement of the TSO Nameplate. Refer to Section 6.1 for Mod Code Marking.

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	50-033008-0001	Final Assembly, GDR-2556U
2	1	63-000337	GDR-2556U TSO Nameplate

4.2 Red Label Engineering Units

The following table contains the components required for assembly. Refer to Figure 2 for placement of the Red Label Nameplate. Refer to Section 6.2 for Mod Code Marking.

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	50-033008-0001	Final Assembly, GDR-2556U
2	1	63-000295	Red Label Nameplate

5 DESIGN AND MANUFACTURING SPECIFICATIONS

- 5.1 The final assembly is documented in drawing: 50-033200-0001 and 50-033008-0001
- 5.2 The software loading instructions are documented in document: 22-000065
- 5.3 The configuration file loading instructions are document in document 22-000069
- 5.4 The calibration instructions are documented in document: 61-000173
- 5.5 The final acceptance test is documented in document: 61-000174

6 LABEL MOD CALLOUT

6.1 Black Label Production Units

Listed below are the current Mod Code markings for the GDR-2556U which is marked / punched out on the TSO Nameplate.

Mod Code	Mod Code Description
No Mod Strike (-)	Initial Release

6.2 Red Label Engineering Units

Listed below are the current Mod Code markings for the GDR-2556U which is marked / punched out on the Red Label Nameplate.

Mod Code	Mod Code Description
No Mod Strike (-)	Initial Release
1	53-033002-0001 Rev L (RF PCB Assembly) <ul style="list-style-type: none">• Removed R292
2	53-033002-0001 Rev M (RF PCB Assembly) <ul style="list-style-type: none">• Changed C798 to 120pF• Changed D39, D40 & D41 to BAS40-04W,115
3	53-033002-0001 Rev N (RF PCB Assembly) <ul style="list-style-type: none">• Removed B17, B98, C150, C153, C721, D10, D11, D39, D40, D41, Q7, R110, R116, R120, R123 & R137• Changed D15 & D20 to 6.8uH Inductor (p/n 1008LS-682XJLC)• Changed C615 to 0 ohm resistor (p/n RC0402FR-070RL) 53-033200-0001 Rev C (GDR Final Assembly) <ul style="list-style-type: none">• Addition of copper tape to seal seam around front plate