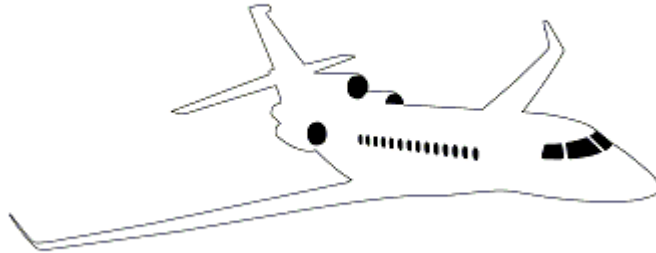


FALCON SERVICE BULLETIN

FALCON 8X



No 600

NOVEMBER 07, 2022

ATA 00

**GENERAL
ENHANCED AVIONICS SYSTEM
EASY IV**

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**GENERAL
ENHANCED AVIONICS SYSTEM
EASY IV**

Initial issuance

November 07, 2022

List of effective pages:
1 to 17

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**GENERAL
ENHANCED AVIONICS SYSTEM
EASy IV**

1. PLANNING INFORMATION**A. EFFECTIVITY**

This Service Bulletin is applicable to FALCON 8X aircraft with serial numbers 402 and subsequent:

- that have already implemented DASSAULT AVIATION:
 - Modification M1925 or Service Bulletin 7X-550 "EASy III - 3RD CERT" or subsequent equivalent Service Bulletin, and
 - Modification M2026 or Service Bulletin 7X-535 "RDR-4000 MOD2 UPGRADE", and
- that have not previously implemented DASSAULT AVIATION Modification M2055.

B. REASON

The purpose of this Service Bulletin is to upgrade the aircraft avionics to the EASy IV load 18.0 standard that includes the following features:

- an advanced version of the INAV moving map with interactive Vertical Situation Display, combined with new Vivid Displays,
- a combination of the most advanced versions of Honeywell's NextGen FMS and Communication Management Function,
- improved Jeppesen charts function with a new Night mode, a Panoramic mode, as well as the display of the aircraft symbol on all georeferenced terminal charts (dual charts required),
- Runway Overrun Awareness and Alerting System (ROAAS) which analyzes the aircraft trajectory and the TOLD landing performance to determine if the aircraft can safely come to a full stop within the remaining runway length,
- VSA (Visual Separation on Approach) for specific traffic information relative to select traffic, to facilitate visual separation,
- Engine-out Auto/Throttle capable of managing power, allowing recovering automation for the two remaining engines and freeing pilots from this task.

C. DESCRIPTION

The operation consists in:

- modifying the aircraft wiring,
- modifying the hardware configuration:
 - replacement of modules in MAU 1 and 2,
 - replacement of TCAS transceiver.
- performing a full software load and an upgrade of the RDR-4000.

D. COMPLIANCE

If you choose to comply with this Service Bulletin, accomplishment can be performed at your convenience.

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E. APPROVAL

This Service Bulletin covers DASSAULT AVIATION modifications:

- M-OPT1142, M-OPT1144 and M2055 that have been approved by EASA.
- M2035 and M2060 that have been approved under the authority of the DOA ref. EASA.21J.051.

The technical content of this document is approved under the authority of the DOA ref. EASA.21J.051.

F. LABOR

Estimated labor-hours: Refer to Service Bulletin Commercial Summary.

NOTE: These labor-hours only concern the work described in this Service Bulletin and do not include other maintenance work that may be performed on this occasion.

G. MATERIAL - PRICE AND AVAILABILITY

The modification kit may be obtained from either address listed below:

Western hemisphere:	DASSAULT FALCON JET CORP. SPARES DISTRIBUTION CENTER 200 RISER ROAD LITTLE FERRY, NJ 07643 U.S.A. Telephone: • U.S.A. and CANADA: 1-800-800-4036 • MEXICO: 001-800-800-4036 • Other countries: 1-201-541-4809 Email to: Customer.Care@DassaultFalconJet.com
Other continents:	DASSAULT AVIATION Falcon Spares 54, AVENUE MARCEL DASSAULT B.P. 24 33701 MERIGNAC Cedex (FRANCE) Telephone: 33 (0)5.56.18.44.44 Email to: dafsorders@dassault-aviation.com

Price and availability on request.

H. TOOLING - PRICE AND AVAILABILITY

Normal maintenance tooling.

I. WEIGHT AND BALANCE

Change in weight: None.

Change in balance with respect to 25% MAC: None.

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J. REFERENCES

Aircraft Maintenance Manual:

- GENERAL MAINTENANCE AND SAFETY PRECAUTIONS (Refer to [TASK 20-00-00-910-801](#))
- USE OF THE AIRCRAFT MAINTENANCE PROCEDURES (Refer to [TASK 20-00-00-910-803](#))
- UNPLUGGING / PLUGGING OF THE MAU BACKSHELLS (Refer to [TASK 20-92-00-910-801](#))
- INSERTION AND EXTRACTION OF A WIRE FITTED WITH A LOCK-IN CONTACT (Refer to [TASK 20-95-00-910-801](#))
- ENERGIZATION / DE-ENERGIZATION OF THE AIRCRAFT SYSTEMS (Refer to [TASK 24-00-00-860-801](#))
- REMOVAL / INSTALLATION OF THE POWER SUPPLY MODULES (Refer to [TASK 31-41-05-900-801](#))
- REMOVAL / INSTALLATION OF THE PROCESSOR MODULES (Refer to [TASK 31-41-09-900-802](#))
- OPERATIONAL TEST OF THE DATA ACQUISITION SYSTEM - MAU (Refer to [TASK 31-42-00-710-801](#))
- REMOVAL / INSTALLATION OF THE ADVANCED GRAPHICS MODULES (AGM) (Refer to [TASK 31-60-17-900-801](#))
- OPERATIONAL TEST OF THE WEATHER RADAR SYSTEM (Refer to [TASK 34-41-00-710-801](#))
- OPERATIONAL TEST OF THE TRAFFIC / COLLISION AVOIDANCE SYSTEM (TCAS) (Refer to [TASK 34-44-00-710-801](#))
- REMOVAL / INSTALLATION OF THE TCAS TRANSCEIVER (Refer to [TASK 34-44-01-900-801](#))
- OPERATIONAL TEST OF THE ENHANCED GROUND PROXIMITY WARNING SYSTEM (EGPWS) (Refer to [TASK 34-45-00-710-801](#))
- INSTALLATION OF AVIONICS SOFTWARE TOOLS (Refer to [TASK 45-10-00-860-801](#))
- PERIODIC DATABASE LOADING (Refer to [TASK 45-90-00-860-801](#))
- DATABASE LOADING (Refer to [TASK 45-90-00-860-803](#))
- SOFTWARE LOADING (Refer to [TASK 45-90-00-860-804](#))
- USE OF THE APM SETTINGS TOOL (Refer to [TASK 45-91-00-910-801](#))
- REMOVAL / INSTALLATION OF THE CABIN FLOOR PANELS (Refer to [TASK 53-04-01-900-801](#))
- OPENING / CLOSING OF THE NOSE CONE (Refer to [TASK 53-10-09-860-801](#))

Wiring Diagram Manual:

- Refer to [WD 34-23-50](#)
- Refer to [WD 34-40-00](#)
- Refer to [WD 34-45-00](#)

DASSAULT AVIATION Service Bulletin:

- 7X-603 "LOADING THE LATEST AMI DATABASE AND SWITCHING AMI DATABASE PROVIDER"

K. OTHER PUBLICATIONS AFFECTED

The following publication is revised to account for the changes introduced by this Service Bulletin:

- Airplane Flight Manual revision 6 or subsequent revision,

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The following publications will be revised at a later date to account for the changes introduced by this Service Bulletin:

- CODDE 2 revision 6
- QRH 1 revision 6
- QRH 2 revision 7
- Illustrated Parts Catalog
- Aircraft Maintenance Manual
- Fault Isolation Manual
- Wiring Diagram Manual

Operational Suitability Data:

- Operational Suitability Data - Flight Crew:
 - OSM-FC revision 7 or subsequent revision
- Operational Suitability Manual - Master Minimum Equipment List:
 - MMEL-CP0292-PUB

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2. ACCOMPLISHMENT INSTRUCTIONS
A. GENERAL INSTRUCTIONS AND SAFETY PRECAUTIONS

- (1) Obey the general maintenance and safety precautions (Refer to [TASK 20-00-00-910-801](#)).
- (2) Obey the general electrical instructions:
 - (a) New wires that are installed alongside existing wires should be secured with the existing clamp.
 - (b) Check that all connections are properly protected to ensure proper insulation, and that markings are visible and appropriate.
 - (c) Connector wires should be inserted and extracted as per the recommendations in Standard Practices (Refer to [TASK 20-95-00-910-801](#)).
 - (d) Electrical and electronic equipment should be removed and installed as per the recommendations in Standard Practices (Refer to [TASK 20-00-00-910-801](#)).
 - (e) Visually inspect the work area for particles or debris, then vacuum-clean the area. Blowing compressed air is prohibited since it could move metal chips into inaccessible areas.

B. PRELIMINARY STEPS

- (1) The aircraft must be in the maintenance configuration (Refer to [TASK 20-00-00-910-803](#)).
- (2) Open the nose cone (**210**) (Refer to [TASK 53-10-09-860-801](#)).
- (3) Remove the necessary equipment and interior accommodation items to get access to cabin floors (**121EZ**), (**121FZ**), (**121GZ**), (**131BZ**) and (**131CZ**).
- (4) Remove the cabin floors listed above (Refer to [TASK 53-04-01-900-801](#)).
- (5) Remove the TCAS transceiver (**103NP**) (Refer to [TASK 34-44-01-900-801](#)).
- (6) Remove the backshells from the AGM modules (**2101FD**), (**2201FD**), (**2301FD**) and (**2401FD**) (Refer to [TASK 20-92-00-910-801](#)).
- (7) Remove the backshell from the EGPWS 1 module (**101FW**) (Refer to [TASK 20-92-00-910-801](#)).
- (8) Check the Mod version of Power Supply modules (**1101FY**), (**1201FY**), (**1301FY**) and (**1401FY**) as follows:
 - (a) Remove the backshells from the power supply modules.
 - (b) For each power supply module, check that mod version of PN 7038248-1901 is B or higher.
NOTE: If not, the power supply module must be replaced by a PN 7038248-1901 Mod B or higher.

C. ELECTRICAL MODIFICATIONS

- (1) Perform the following modification on each AGM backshell 1:
 - (a) Fill the new connector (**2-fig. 1**) with blanking pins.
NOTE: This new connector has no wire connected to it.
 - (b) Open the backshell 1.

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- (c) Remove the blank backplate (**a-fig. 1**).
- (d) Install the connector backplate (**1-fig. 1**) and the connector (**2-fig. 1**).
- (e) Close the backshell 1.
- (2) Perform the following modification on each AGM backshell 2:
 - (a) Open the backshell 2.
 - (b) Disconnect the two wires from the backshell as per wiring diagram (**item 1-fig. 2**)
 - (c) Cap and stow the two wires inside the backshell.
 - (d) Close the backshell 2.
- (3) Perform the following modification on the backshell of the EGPWS 1 module (**101FW**):
 - (a) Open the backshell.
 - (b) Disconnect the two wires from the backshell as per wiring diagram (**item 2-fig. 2**).
 - (c) Cap and stow the two wires to wiring bundle under the cabin floor.
 - (d) Discard the backshell.
- (4) Perform the electrical modification as per wiring diagrams **fig. 3** and **fig. 4**.
- (5) Perform an electrical continuity check of the aircraft wiring.

D. HARDWARE / EQUIPMENT MODIFICATIONS

- (1) Install the new TCAS transceiver (**103NP**) (Refer to **TASK 34-44-01-900-801**).
- (2) Remove and replace the following MAU 1 modules:
 - AGM modules (**2101FD**) and (**2201FD**) (Refer to **TASK 31-60-17-900-801**),
 - If needed (see step 2.B.(8)), power supply modules (**1101FY**) or/and (**1201FY**) (Refer to **TASK 31-41-05-900-801**),
 - processor 10 module (**2051FY**) in slot 13 in place of EGPWS 1 module (**101FW**) (Refer to **TASK 31-41-09-900-802**).
- (3) Remove and replace the following MAU 2 modules:
 - AGM modules (**2301FD**) and (**2401FD**) (Refer to **TASK 31-60-17-900-801**),
 - If needed (see step 2.B.(8)), power supply modules (**1301FY**) or/and (**1401FY**) (Refer to **TASK 31-41-05-900-801**).

E. SOFTWARE LOADING

CAUTION: PRIOR TO STARTING THE SOFTWARE LOADING, MAKE SURE THAT YOU HAVE ALL THE REQUIRED CD-ROMS MENTIONED IN PARAGRAPH 3.

- (1) Energize the aircraft systems (Refer to **TASK 24-00-00-860-801** - "Connection of the electrical ground power unit" and "Energization with the electrical ground power unit").
- (2) Record the current APM Settings configuration of the aircraft (Refer to **TASK 45-91-00-910-801**).
- (3) Uninstall the old version of the Remote Terminal software from the client laptop.

CAUTION: USING AN INAPPROPRIATE VERSION OF CMC-RT / DLS TO LOAD THE SOFTWARE OR DATABASE CAN LEAD TO AGM FAILURES WHICH MAY REQUIRE AGM REPLACEMENT.

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- (4) Install the new version of the Remote Terminal software included in the HONEYWELL EPIC Tools CD-ROM (Refer to [TASK 45-10-00-860-801](#)).
- (5) Load the new software and databases in accordance with the data loading procedures (Refer to [TASK 45-90-00-860-801](#)), (Refer to [TASK 45-90-00-860-803](#)), (Refer to [TASK 45-90-00-860-804](#)) and following the sequence hereafter:

CAUTION: PRIOR TO STARTING THE OPERATIONAL SOFTWARE LOADING, MAKE SURE THAT THE "CRC32" VALUE CONTAINED ON THE LOAD CD-ROM MATCHES THE CRC VALUE SHOWN ON FALCON PORTAL (REFER TO [TASK 45-90-00-860-804](#)).

SOFTWARE	KEY WORD	EFFECTIVITY
Operational Software Top Level System Part Number EB60007394-0116	Load 18.0	All aircraft
Creation of the APM Settings files: • Create and save the APM Settings file on the hard drive using the APM Settings Tool included in the HONEYWELL EPIC Tools CD-ROM and the configuration noted previously. Use the settings.def definition file from the load 18.0 Operational Software located in the apm_defn folder. <u>NOTE:</u> The create and load feature should not be used. • Load the settings file created from the hard drive using DLS. • Make a copy of this file generated by the APM Settings Tool on a media (e.g. CD-ROM) and keep a copy on-board the aircraft. <u>NOTE:</u> It is recommended to print the "settings.text" file generated by the APM Settings Tool to keep a record of the latest settings configuration.		
TT60005561-XXXXX*	APM Options parameter configuration <u>NOTE:</u> If an authorization code is required, it will be specified on the CD ROM label (Refer to TASK 45-90-00-860-803).	
18.0*	LDI	
Refer to 7X-603	Airline Modifiable Information (AMI) database	Aircraft with Datalink installed
V0015*	FLT (Fault Code database)	All aircraft
V0014*	OPS (Consequences database)	
V0036*	ECL	
Latest applicable version	ECB	
PS60002397-0004*	FMS AEDB	
PS60001004-0004*	FMS MAGVAR	
PS60004646-003*	FMS TOLD	Aircraft with SB 7X-411
DS7-YYCC-RRR*	INDS EPIC AIRSPACE & COMM NAVIGATION DATA	A/C without RNP-AR

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SOFTWARE	KEY WORD	EFFECTIVITY
DS8-YYCC-RRR*		A/C with RNP-AR (RNP-AR=0.3 or RNP-AR<0.3)
Full charts	INDS Electronic Terminal Charts	All aircraft
DO69002412-0XXX* (EGPWF database)	INDS EGPWF Data	
996-0114-5XX* (envelope modulation)		
996-0146-6XX*	INDS Terrain server	
PS60001005-0015*	ATC Database	Aircraft with CPDLC ATN-B1
P1148 Issue 2*	ACMF	Optional but recommended to all aircraft for troubleshooting
SWC69003872-040*	EGPWF ROAAS Database	All aircraft
* or latest applicable version (the most current software and database versions which can be loaded on the aircraft are now tracked in the "MAINTENANCE DOCUMENTATION - Documentation Status" section of the Falcon Portal, where you will be given the most up-to-date versions depending on the aircraft configuration).		

- (6) Discard all of the previous versions of the software, Options, Settings, Operator Tools and Database CD-ROMs.
- (7) Due to the Operational Software to EB60007394-0116, contact INDS to request the Navigation database changes from (refer to Service Bulletin Commercial Summary):
 - DS3 to DS7 for A/C without RNP-AR, or
 - DS4 to DS8 for A/C with RNP-AR.

F. RDR-4000 UPGRADE

- (1) Upload the RP-1 software according to HONEYWELL Service Bulletin 930-1006-34-0240 attached, paragraph 3.B.(1) "Configuration File Load on the Aircraft".

G. TESTS

- (1) Perform the operational test of the TCAS system (Refer to [TASK 34-44-00-710-801](#)).
- (2) Perform the test after installation relative to the following MAU modules:
 - AGM modules (Refer to [TASK 31-60-17-900-801](#))
 - processor 10 and power supply modules (Refer to [TASK 31-42-00-710-801](#))
- (3) Perform the operational test of the EGPWS (Refer to [TASK 34-45-00-710-801](#)).
- (4) Perform the operational test of the weather radar system (Refer to [TASK 34-41-00-710-801](#)).

H. FINAL STEPS

- (1) De-energize the aircraft systems (Refer to [TASK 24-00-00-860-801](#) - "De-energization with the electrical ground power unit" and "Disconnection of the electrical ground power unit").
- (2) Install the floors listed in step 2.B.(4) (Refer to [TASK 53-04-01-900-801](#)).

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- (3) Install all the interior accommodation removed for access.
- (4) Close the nose cone (210) (Refer to [TASK 53-10-09-860-801](#)).

I. DOCUMENTATION

Incorporate Airplane Flight Manual revision 6 or subsequent revision pages.
Incorporate **fig. 2** in Wiring Diagram Manual chapter 34-23-50.
Incorporate **fig. 3** and **fig. 4** in Wiring Diagram Manual chapters 34-40-00 and 34-45-00.

J. RECORDING

Record compliance with this Service Bulletin in the appropriate aircraft documents.
Fill out the electronic Service Bulletin reply form accessible from the "Service Bulletin" page on the Falcon portal or register SB implementation at Sbconfiguration@dassault-aviation.com, providing all useful information for aircraft identification:

- aircraft type and serial number,
- SB compliance: complete or section(s) applied,
- remarks,
- compliance date,
- service center.

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3. MATERIAL INFORMATION

NOTE: Compliance with this Service Bulletin by substituting the part numbers below with interchangeable subsequent part numbers (as per the Master List or Dassault-approved supply list) is acceptable, provided that subsequent part numbers have the same effectivity as the original ones.

A. MODIFICATION OF EQUIPMENT PART NUMBER

NEW P/N	QTY	KEY WORD	OLD P/N	INSTRUCTION/ DISPOSITION
60000770-1907	4	AGM module	7036410-1903	
7034056-1903	1	PROC module	7028419-1904	processor 10 module (2051FY)
7038248-1901 mod B or more	up to 4	Power Supply Module	7038248-1901	If needed (see step 2.B.(8))
940-0452-001 with software version 01/04 or subsequent	1	TCAS Computer	940-0451-001	
620-1974-154	1	Label, Part Number		
718-1761-020	1	Configuration feature software CF card	718-1761-012	
930-1006-015 with mod 2	1	RDR-4000	930-1006-012	

NOTE: Refer to Service Bulletin Commercial Summary to send back the modules removed.

B. SOFTWARE
NEW CD-ROMS

NEW CD-ROMS				
NEW P/N	SOFTWARE	KEY WORD	EFFECTIVITY	SUPPLIER
TM7035297-107	EPIC Tools including: • Remote Terminal - RT 33, DLS 8.7.0 • APM Settings Tool - V 3.0 • APM Restoration Tool - V 2.2		All aircraft	HONEYWELL
MM7034838-020	Operational Software Top Level System Part Number EB60007394-0116	Load 18.0		
TT60005561-XXXXX	APM Options parameter configuration			HONEYWELL through

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NEW CD-ROMS				
NEW P/N	SOFTWARE	KEY WORD	EFFECTIVITY	SUPPLIER
				DASSAULT AVIATION
PUB: 1001	18.0*	LDI		DASSAULT AVIATION available on Falcon eData
Refer to Service Bulletin 7X-603		AMI database	Aircraft with Datalink installed	GDC or ARINC Direct or SATCOM DIRECT
PUB: 1001	V015*	FLT (Fault Code database)	All aircraft	DASSAULT AVIATION available on Falcon eData
PUB: 1001	V0014*	OPS (Consequences database)		
PUB: 1001	V0036*	ECL Database		
Full charts		INDS Electronic Terminal Charts		Integrated Navigation Data Service (INDS)
EGPWF Data	DO69002412-0XXX* (EGPWF Database)	INDS EGPWF Data		
	996-0114-5XX* (envelope modulation)			
EGPWF Terrain Server	996-0146-XXX* (terrain server)	INDS Terrain server		
DS7	DS7-YYCC-RRR*	INDS EPIC AIRSPACE & COMM NAVIGATION DATA	A/C without RNP-AR	
DS8	DS8-YYCC-RRR*		A/C with RNP-AR (RNP-AR=0.3 or RNP-AR<0.3)	
DM60004646-003	PS60004646-003*	TOLD Database	Aircraft with SB 7X-411	HONEYWELL
SWC69003872-040	69003872-040*	EGPWF ROAAS Database	All aircraft	HONEYWELL
* or latest applicable version (the most current software and database versions which can be loaded on the aircraft are now tracked in the "MAINTENANCE DOCUMENTATION - Documentation Status" section of the Falcon Portal, where you will be given the most up-to-date versions depending on the aircraft configuration).				

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CD ROMS REQUIRED ONLY IF NOT PREVIOUSLY PROCURED

CD ROMS REQUIRED ONLY IF NOT PREVIOUSLY PROCURED				
P/N	SOFTWARE	KEY WORD	EFFECTIVITY	SUPPLIER
DM60002397-0004*	PS60002397-0004*	FMS AEDB	All aircraft	HONEYWELL
DM60001004-0004*	PS60001004-0004*	Magvar	All aircraft	HONEYWELL
DM60001005-0015*	PS60001005-0015*	ATC database	Aircraft with CPDLC ATN-B1	HONEYWELL
PUB: 804	Latest applicable version	ECB	All aircraft	DASSAULT AVIATION
PUB: 1001	P1148 Issue 2*	ACMF	Optional but recommended for AP troubleshooting	DASSAULT AVIATION available on Falcon eData

*or latest applicable version (the most current software and database versions which can be loaded on the aircraft are now tracked in the "SOFTWARE & DATABASES - Software & Databases Status" section of the Falcon Portal, where you will be given the most up-to-date versions depending on the aircraft configuration).

C. MODIFICATION KIT

Kit P/N SBF7X0600A

Kit P/N SBF7X0600A - Electrical kit			
P/N	QTY	KEY WORD	DISPOSITION/ITEM-FIG
01C0K600-22P01	3	Contact	103NPE
01C0K501-20S01	2	Contact	SP2102NH1
01EQTPRL16B01	2	Splice	SP2102NH1
01EQTPRL08R01	1	Splice	SP103NPF-7K
01EQTRB23-1R	4	Soldering sleeve	SP2102NH1, 103NPE
01EQTEC1-1	11	Insulation cap	
01CAN203-1-24W	0.5 m	Wire	
01CAB211-2-24	3.5 m	Wire	
01CAN211-1-24	1 m	Wire	
103NPE-5E/SP103NPF-7K	2	Wire identification sleeve (01PR0TMS1G1-8)	
103NPE-15C-15D/2102NH-32-33	2	Wire identification sleeve (01PR0TMS1G1-8)	
SP103NPF-7K	1	Splice identification sleeve (01PR0TMS1G3-32)	
01C0A507CPC11A8-01	4	Connector backplate	(1-fig. 1)

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Kit P/N SBF7X0600A - Electrical kit			
P/N	QTY	KEY WORD	DISPOSITION/ITEM-FIG
01C0F501U62BS001L	4	Connector	(2-fig. 1)
01C0A54148FC22	256	Blanking pin	2101FD, 2201FD, 2301FD, 2401FD

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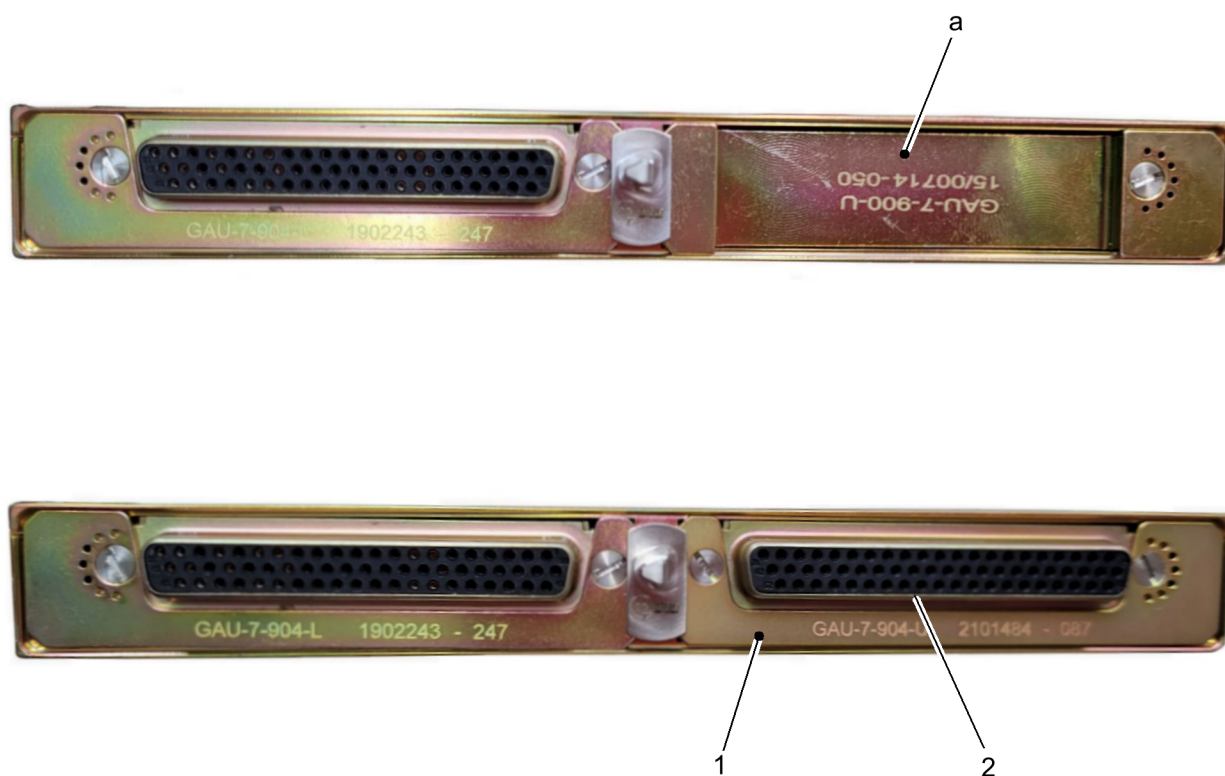


Figure 1: AGM BACKSHELL

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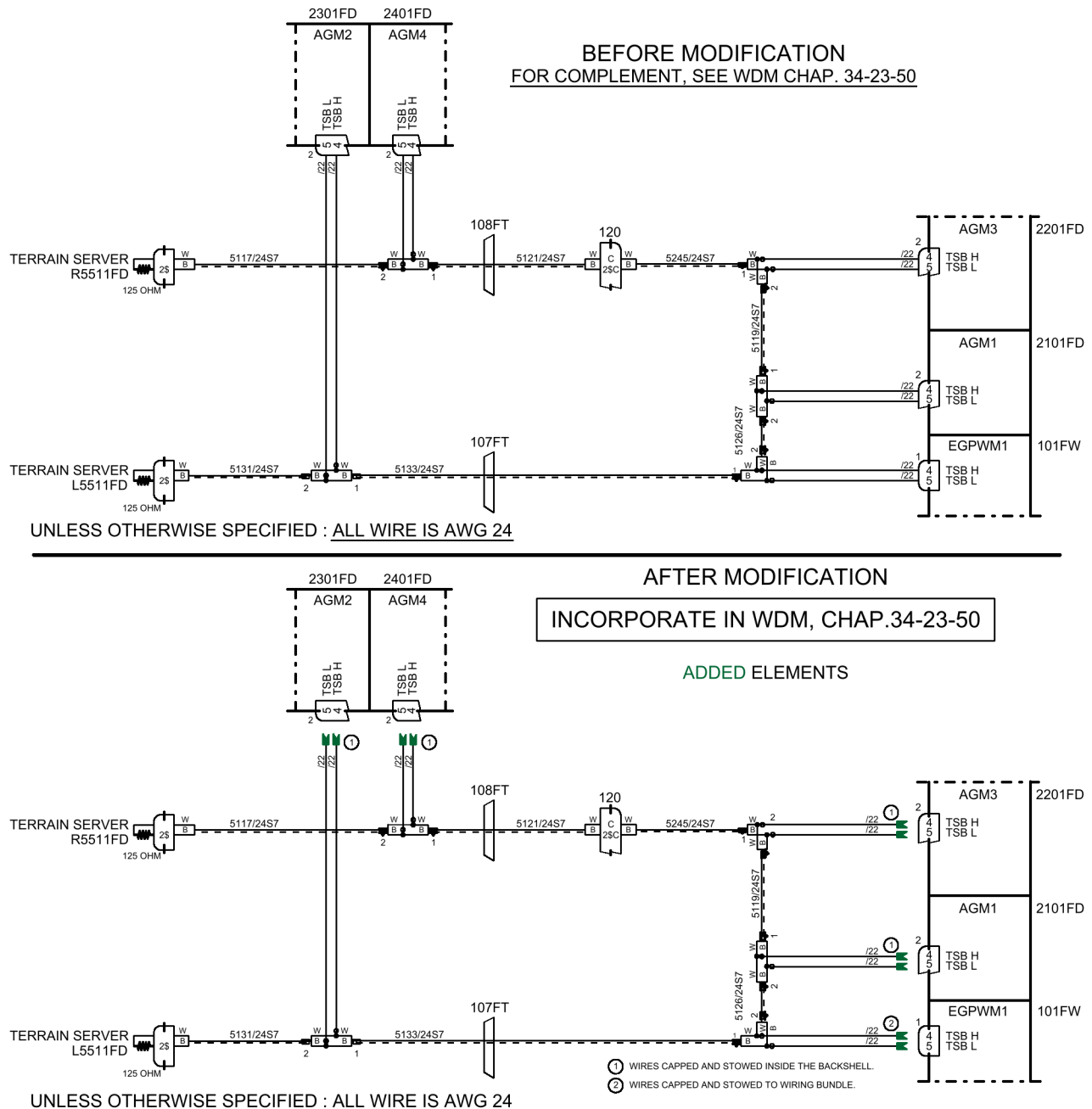
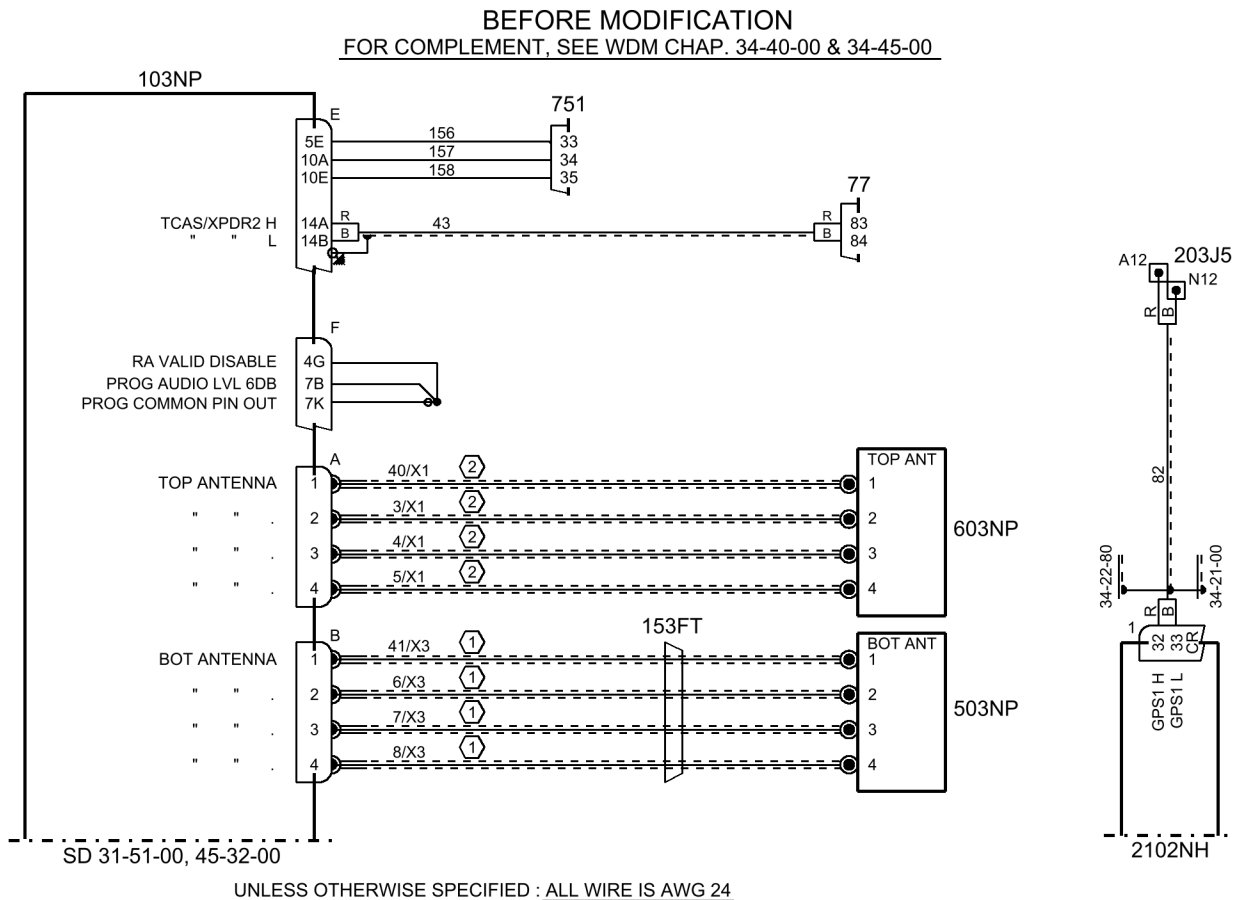


Figure 2: WDM 34-23-50 - TERRAIN SERVER BUS WIRING MODIFICATION

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- ① THE FOUR COAXIAL MUST HAVE THE SAME LENGTH.
 ② THE FOUR COAXIAL MUST HAVE THE SAME LENGTH.

SHIELDED WIRES CONNECTED BY A TERMINAL JUNCTION OR SPLICE HAVE THE SHIELDING JOINED TOGETHER (THIS JUNCTION IS NOT ILLUSTRATED IN THIS WD)

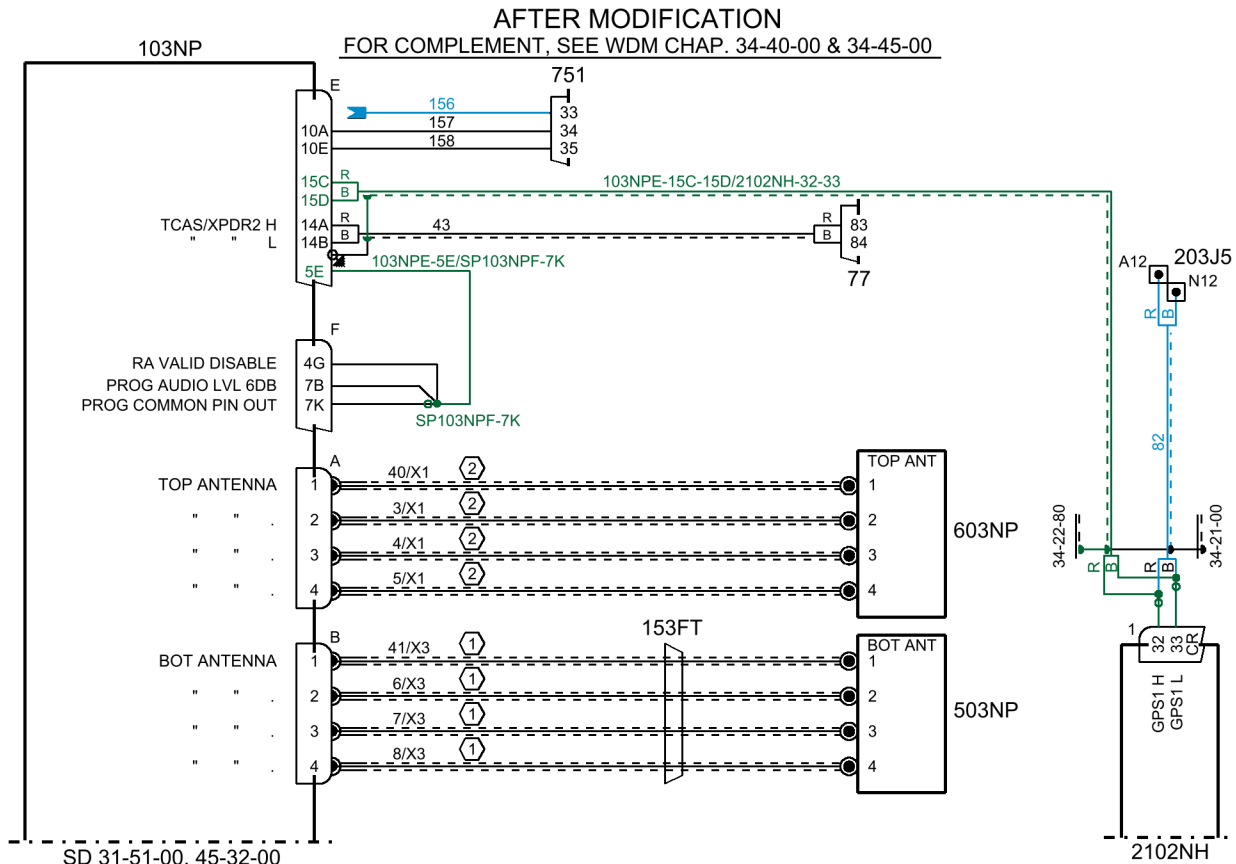
- 77J/P	LH FR1 BASIC ELEC CUT-OFF CONNECTOR	F1, LH
- 751J	BASIC/OPTION CUT-OFF CONNECTOR	CABIN AREA, F14 UNDER FLOOR,RH
- 103NP	TCAS TRANSCIVER	F12-16, UNDER CABIN FLOOR, LH
- 603NP	UPPER TCAS ANTENNA	F12-30, OVER CABIN FLOOR, LH
- 503NP	LOWER TCAS ANTENNA	F26-27, FUEL EQUIPMENT BAY
- 2102NH	ADAHRS UNIT	F8-12, UNDER CABIN FLOOR, LH
- 203J	TERMINAL STRIP	F8-9, OVER FLOOR, LH CABINET

Figure 3: WDM 34-40-00 & 34-45-00 - BEFORE WIRING MODIFICATION

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INCORPORATE IN WDM, CHAP.34-40-00 & 34-45-00



UNLESS OTHERWISE SPECIFIED : ALL WIRE IS AWG 24

- ① THE FOUR COAXIAL MUST HAVE THE SAME LENGTH.
- ② THE FOUR COAXIAL MUST HAVE THE SAME LENGTH.

SHIELDED WIRES CONNECTED BY A TERMINAL JUNCTION OR SPLICE HAVE THE SHIELDING JOINED TOGETHER (THIS JUNCTION IS NOT ILLUSTRATED IN THIS WD)

- | | | |
|----------|-------------------------------------|--------------------------------|
| - 77J/P | LH FR1 BASIC ELEC CUT-OFF CONNECTOR | F1, LH |
| - 751J | BASIC/OPTION CUT-OFF CONNECTOR | CABIN AREA, F14 UNDER FLOOR,RH |
| - 103NP | TCAS TRANSCIVER | F12-16, UNDER CABIN FLOOR, LH |
| - 603NP | UPPER TCAS ANTENNA | F12-30, OVER CABIN FLOOR, LH |
| - 503NP | LOWER TCAS ANTENNA | F26-27, FUEL EQUIPMENT BAY |
| - 2102NH | ADAHRS UNIT | F8-12, UNDER CABIN FLOOR, LH |
| - 203J | TERMINAL STRIP | F8-9, OVER FLOOR, LH CABINET |

ADDED ELEMENTS
MODIFIED ELEMENTS

Figure 4: WDM 34-40-00 & 34-45-00 - AFTER WIRING MODIFICATION

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SERVICE BULLETIN

NAVIGATION - RP-1 RADAR PROCESSOR (RP-1) - CONVERSIONS OF PN 930-1006-010/-012 TO PN 930-1006-015

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Transmittal Information

ATA Number 930-1006-34-0240 (Publication Number D202202002219)

Summary

This revision is a FULL replacement. This revision includes the changes that follow:

- Updated [Paragraph 1.F.\(1\)](#).
- Updated CMM 34-41-68 revision number from "7" to "9" in [Paragraph 1.K.\(2\)](#).
- Updated CMM 34-41-68 revision number from "7" to "9" in [Paragraph 1.L.\(1\)](#).
- Added [Paragraph 3.B.\(1\)\(a\)5](#).
- Added TSO Acronym in [Table 4](#).

The information that is identified with revision bars is listed in the Revision History section. Revision bars are not used before [Paragraph 1.A](#). The editorial changes and information that was moved, removed, or reformatted are not identified with revision bars.

Refer to [Paragraph 4.A](#). for a list of the acronyms and abbreviations used in this service bulletin.

Revision History

This service bulletin has had one revision(s) as shown in [Table 1](#).

Table 1. Revision History

Revision Number	Revision Date
0	23 Mar 2022
1	1 Nov 2022

Highlights

This section issues Revision 1 to Service Bulletin, ATA Number 930-1006-34-0240 (Publication Number D202202002219), and contains these changes:

The list of highlights tells the users about the changes that the revision makes. The list has three columns. The "Page" column shows the block of data that the revision changes and the page on which the block begins. The block can be a section, subsection, graphic, table, etc. Revision marks give the location of the change in the block. The "Description" column tells the user about the change or changes in each block. A paragraph, table, or figure reference often comes before the description. The "Effectivity" column tells the user about the part number(s) to which the block of information applies. The default value for this column is "All." "All" means that the block applies to all parts.

Page	Description	Effectivity
7	Paragraph 1.F.(1) . Updated Paragraph.	All
8	Paragraph 1.K.(2) . Updated CMM 34-41-68 revision number from "7" to "9".	All
8	Paragraph 1.L.(1) . Updated CMM 34-41-68 revision number from "7" to "9".	All

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Page	Description	Effectivity
13	Paragraph 3.B.(1)(a)5 . Added Paragraph.	All
16	Paragraph 4.A.(1) . Added TSO Acronym in Table 4.	All

SB F7X-600 RELEASED document issued from Dassault Aviation repository.

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1. **Planning Information**

A. Effectivity

- (1) This service bulletin is applicable to the RP-1 PN 930-1006-010/-012 SW MOD 1, 2.

B. Concurrent Requirements

- (1) Not applicable.

C. Reason

- (1) This conversion is to use update AGM software with hazard display.

D. Description

- (1) A summary of the work necessary to do this conversion is given below:

- (a) The new configuration file is loaded in to the RP-1.

NOTE: This is a configuration file change only. The RP-1 is not disassembled and the inspection seals are not broken.

NOTE: This conversion can be done at a shop location or at a customer location (in the aircraft).

E. Compliance

- (1) This is a must to do conversion to be used on EASy IV configuration.

F. Approval

- (1) This service bulletin has been reviewed by the Honeywell Radar Systems FAA TSO Specialist. The conversion information herein meets the requirement of TSO.

G. Manpower

- (1) This conversion can be completed in the approximate times that follow:

- (a) If this conversion is done at a customer location (in the aircraft):
- 0.5 hour for the labor to convert to the PN 930-1006-015.

NOTE: The time identified above does not include the time to get access to the RP-1 on the aircraft.

- (b) If this conversion is done at a shop location:
- 0.5 hour for the labor to do the modification of the RP-1
 - 2.0 more hours for the labor to do a test of the RP-1.

H. Weight and Balance

- (1) None.

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I. Electrical Load Data

- (1) Not applicable.

J. Software Accomplishment Summary

- (1) A software accomplishment summary has been completed to agree with the necessary conditions of RTCA document DO-178B, Software Considerations in Airborne Systems and Equipment Certification.

K. References

- (1) To find, see, and download Honeywell Technical Publications, go to <https://aerospace.honeywell.com>.
- (2) The document that follows is necessary to complete this conversion. Unless specified differently, you can use subsequent revisions.
 - CMM, ATA Number 34-41-68 (Publication Number 012-0746-001), Revision 9 or Latest, RP-1 Radar Processor.

L. Other Publications Affected

- (1) CMM, ATA Number 34-41-68 (Publication Number 012-0746-001), Revision 9 or Latest, RP-1 Radar Processor, will be revised because of this service bulletin.
- (2) This service bulletin has no effect on the test procedure.

M. Interchangeability or Intermixability of Parts

- (1) The operator must speak to the OEM about the interchangeability and intermixability of the RP-1 part numbers identified in this service bulletin.

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2. Material Information

A. Material - Price and Availability

- (1) For available parts, supply times, necessary test documentation, applicable test material prices, and repair support information, go to:

<https://aerospace.honeywell.com>.

Registered users can enter their Honeywell ID and password. New users must register to create a Honeywell ID.

NOTE: To speak with Honeywell personnel:

Honeywell Aerospace Contact Team

Telephone: 800-601-3099 (Toll Free U.S.A./Canada)

Telephone: 602-365-3099 (International Direct)

- (2) This conversion can be done at a Honeywell service center, Honeywell-authorized repair location or in the aircraft for the price given at the time of the order.
- (3) Honeywell can supply the parts necessary to do this conversion. The price for parts will be given at the time of the order. When you make an order for parts, send a purchase order that refers to this service bulletin, ATA Number 930-1006-34-0240 (Publication Number D202202002219). The purchase order must include only the applicable parts specified in [Table 2](#) of this service bulletin.

B. Industry Support Information

- (1) Honeywell will give no reimbursement to do this conversion. The customer will receive an applicable invoice for the conversion of each RP-1 radar processor done at a Honeywell service center or Honeywell-authorized repair location.

C. Material Necessary for Each Component

- (1) The parts identified in [Table 2](#) are necessary to do this service bulletin.

Table 2. Operator-Purchased Material

New PN ^{2, 3, 4}	Keyword/ Nomenclature	Old PN	Qty	List Price ¹	Instructions/ Disposition Codes
620-1974-154	Label, Part Number	620-1956-138/620-1974-136	1		F
718-1761-020	Configuration Features List File	718-1761-012	1		

NOTES:

1. The list price is applicable to the parts that Honeywell has available at the time of the order. Refer to the Honeywell, Aerospace Contact Team ([Paragraph 2.A.](#)) for the applicable material prices, available parts, supply times, and minimum order quantities.
2. Refer to the Honeywell Aerospace Contact Team ([Paragraph 2.A.](#)) when you need data about available parts, supply times, or minimum order quantities.
3. Different supply-times are necessary to supply the parts. Honeywell Aerospace Contact Team ([Paragraph 2.A.](#)) or your local Honeywell service center for schedules, applicable prices, and available parts.

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4. The customer or local regulatory authority can make decisions about what to do with the used parts. Discard or erase the used software and do not use it again.

Table 3. Instructions/Disposition Codes

Code	Description
Disposition Code F	Discard the removed part and replace with a new part.

D. Material Necessary for Each Spare

- (1) Same as [Paragraph 2.C.](#)

E. Reidentified Parts

- (1) Not applicable.

F. Tooling - Price and Availability

- (1) The equipment that is necessary to do this conversion is specified in the documents given in [Paragraph 1.K.](#) of this service bulletin.

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3. Accomplishment Instructions

A. General

WARNING: TO AVOID INJURY TO PERSONNEL, BE AWARE THAT VOLTAGES ARE PRESENT IN THE UNIT AND IN THE TEST EQUIPMENT. VOLTAGES AS LOW AS 28 VOLTS CAN CAUSE SERIOUS INJURY UNDER SOME CONDITIONS. DO NOT BE MISLED BY THE TERM "LOW VOLTAGE."

WARNING: BEFORE YOU USE A MATERIAL, REFER TO THE MANUFACTURER'S MATERIAL SAFETY DATA SHEETS. SOME MATERIALS CAN BE DANGEROUS.

CAUTION: DO NOT USE A MATERIAL THAT IS NOT EQUIVALENT TO THE MATERIAL SPECIFIED BY HONEYWELL. A MATERIAL THAT IS NOT EQUIVALENT CAN CAUSE DAMAGE TO THE EQUIPMENT AND CAN MAKE THE WARRANTY NOT APPLICABLE.

CAUTION: THE RP-1 CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE ITEMS. USE INDUSTRY APPROVED PRECAUTIONS.

- (1) Obey the precautions.
- (2) Refer to the RP-1 CMM, ATA Number 34-41-68 (Publication Number 012-0746-001), for procedures and precautions. Use all CAUTIONS and WARNINGS. Refer to the IPL in the CMM for the location of the parts, unless specified differently.
- (3) Keep all hardware for use in assembly unless specified differently.
- (4) Obey standard established shop practices during conversion of the RP-1 unless specified differently.
- (5) When the compact flash card is used for dataloading, the system automatically uploads the software from the card into system memory. When the flash card is detected the only functions that the RP-1 will perform are those of uploading software.
- (6) This is a configuration file change only. The RP-1 is not disassembled and the inspection seals are not broken.
- (7) This conversion can be done at a shop location or at a customer location (in the aircraft).
- (8) [Paragraph 3.B.\(1\)](#) is applicable for the installation of this conversion in RP-1 units when the installation is performed on the aircraft.
- (9) [Paragraph 3.B.\(2\)](#) is applicable for the installation of this conversion in RP-1 units when the installation is performed at a service center.

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B. Procedure

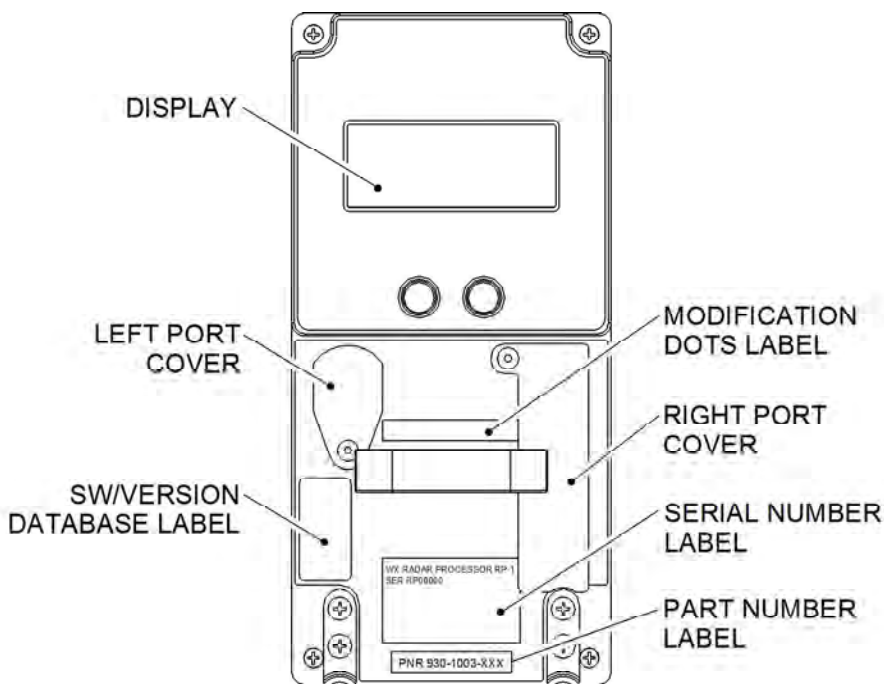
WARNING: MAKE SURE ALL PERSONNEL AND OBJECTS ARE AT A SAFE DISTANCE FROM THE ANTENNA DRIVE ASSEMBLY SCAN VOLUME.

NOTE: Complete the instructions in [Paragraph 3.B.](#) one time for each unit.

(1) Configuration File Load on the Aircraft

(a) Configuration Assembly Load

- 1 Make sure the RDR-4000 is not transmitting by verifying the radar is in "Standby".
- 2 Make sure no power is applied to the RP. Put the configuration feature software CF card, PN 718-1761-020, in the vertical slot under the right port cover. The right port cover is on the front panel of the RP. Refer to [Figure 1](#).



ICN-97896-0000382486-001-01

Figure 1. RP-1 Radar Processor, Front View

- 3 Apply power to the RP.
- 4 The transfer process can take up to 2 minutes. This can change when the amount of data to be uploaded changes. The data load is complete when the LCD shows the message "Upload Successful". If "Upload Fail", or "Invalid Card" appear then return to [Paragraph 3.B.\(1\)\(a\)1](#) in this section. If a proper load is not achieved after a few attempts send the RP to Honeywell for repair.

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- 5 When the data load is complete, remove power from the RP-1 and extract the CF card.

(b) Data Load Check

NOTE: The instructions in this paragraph use the RP-1 front panel display to make sure the software part numbers are correct. Refer to [Figure 1](#) for the location of the RP-1 front panel display. During data load check, make sure the RDR-4000 is not transmitting by verifying the radar is in "Standby" mode.

- 1 Apply power to the RP.
- 2 Press the scroll button. Scroll to the word CONFIGURATION. Press Select to make a selection of the CONFIGURATION.
- 3 Press the scroll button. Scroll to the RP/IOP config. Press select for the RP/IOP config.
- 4 You will see the RP SER and PNR.
- 5 Press the scroll button until you see APP, the number should be one of PN 996-4061-504/-505/-506/-507.
- 6 Press the scroll button until you see DB, the number should be PN 996-1232-547.
- 7 Select NEXT to get to the RP/MP Config.
- 8 Press the scroll button until you see APP, the number should be one of PN 996-4061-504/-505/-506/-507.
- 9 Press the scroll button until you see DB, the number should be PN 996-0175-502.
- 10 Press the scroll button until you see CFG, this number should be PN 996-4061-707.
- 11 Select NEXT to get to the TR.
- 12 Press the scroll button until you see APP, the number should be one of PN 996-4061-504/-505/-506/-507.
- 13 Select NEXT to get to the DA.
- 14 Press the scroll button until you see APP, the number should be one of PN 996-4061-504/-505/-506/-507.

(c) Replacement of Label

- 1 Remove the power from all of the equipment.
- 2 Replace part number label with PN 620-1974-154 for PN 930-1006-015.

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(2) Configuration File Load at a Service Center

(a) Configuration Assembly Load

- 1 Make sure no power is applied to the RP. Put the configuration feature software CF card, refer to [Table 2](#) the CF card part number, in the vertical slot under the right port cover. The right port cover is on the front panel of the RP. Refer to [Figure 1](#).
- 2 Apply power to the RP.
- 3 The transfer process can take up to 2 minutes. This can change when the amount of data to be uploaded changes. The data load is complete when the LCD shows the message "Upload Successful", "Upload Fail", or "Invalid Card". Any other text means that the transfer is still in work.

(b) Data Load Check

NOTE: The instructions in this paragraph use the RP-1 front panel display to make sure the software part numbers are correct. Refer to [Figure 1](#) for the location of the RP-1 front panel display.

- 1 Apply power to the RP-1.
- 2 Press the scroll button. Scroll to the word CONFIGURATION. Press Select to make a selection of the CONFIGURATION.
- 3 Press the scroll button. Scroll to the RP/IOP. Select the RP/IOP.
- 4 Press the select button to see the IOP part numbers.
- 5 Scroll through the part numbers.
- 6 Scroll to the line that starts with APP.
- 7 Make sure the part number on this line is one of the SW PN 996-4061-504/-505/-506/-507.
- 8 Scroll to the line that starts with DB.
- 9 Make sure the part number on this line is PN 996-1232-547.
- 10 Select NEXT to get to the RP/MP.
- 11 Scroll to the line that starts with APP.
- 12 Make sure the part number on this line is one of the SW PN 996-4061-504/-505/-506/-507.
- 13 Scroll to the line that starts with DB.
- 14 Make sure the part number on this line is PN 996-0175-502.
- 15 Scroll to the line that starts with CFG, this number should be PN 996-4061-707.

NOTE: If the RP-1 does not have the correct part numbers as verified in this section, go to the applicable section and repeat the instructions to upload the correct software.

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(c) Replacement of Label

- 1 Remove the power from all of the equipment.
- 2 Replace part number label with PN 620-1974-154 for PN 930-1006-015.

C. Test

- (1) Do a test of the RP-1. Refer to the instructions in the TESTING AND FAULT ISOLATION section of the CMM 34-41-68.

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4. Appendix

A. Appendix A, Acronyms and Abbreviations

(1) Refer to [Table 4](#) for a list of the acronyms and abbreviations used in this service bulletin.

Table 4. Acronyms and Abbreviations

Term	Full Term
ATA	Air Transport Association
CAGE	Commercial and Government Entity
CF	Compact Flash
CFG	Configuration
CFR	Code of Federal Regulations
CMM	Component Maintenance Manual
DA	Drive Assembly
ECCN	Export Control Classification Number
FAA	Federal Aviation Administration
HCS	Hazard Communication Standard
ID	Identification
Inc.	Incorporated
IPL	Illustrated Parts List
LCD	Liquid Crystal Display
LRU	Line Replaceable Unit
MOD	Modification
OEM	Original Equipment Manufacturer
OSHA	Occupational Safety and Health Administration
PMA	Parts Manufacturer Approval
PN	Part Number
PNR	Part Number
Qty	Quantity
RP	Radar Processor
RTCA	Radio Technical Commission for Aeronautics
SER	Serial
SW	Software
TR	Transmitter Receiver
TSO	Technical Standard Order

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B. Appendix B, Customer Support Service Report

- (1) If the modification given in this service bulletin is done at a location other than a Honeywell service center, complete the CSSR.

LRU/SRU Model/Nomenclature: RP-1 radar processor

* LRU/SRU Part No.

(Before modification):

* LRU/SRU Part No.

(After modification):

* LRU/SRU Serial Number:

* Hardware/Software MOD Level

(Before modification):

* Hardware/Software MOD Level

(After modification):

Aircraft Type, Serial Number, Tail Number:

* End User

Company Name:

Company Address:

* Service Provider

Person to Contact:

Company Name:

Company Address:

Company Phone No.:

Date of modification:

* Required Information Fields

Honeywell Internal Use Only

SAR Number.:

QDS Customer Number.:

Mail or Fax

Completed Form to:

Honeywell

Aerospace Electronic Systems

Attn: Order Management

P.O. Box 21111

Phoenix, AZ 85036-1111

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