

GPS RECEIVER - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH HONEYWELL FMS

1. General

- A. This section gives the procedures to remove and install the FMS1 and/or FMS2 GPS receiver(s).
- B. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
34-56-01-000-801-A	FMS GPS RECEIVER - REMOVAL	PRE-MOD SB 145-34-0118
34-56-01-400-801-A	FMS GPS RECEIVER - INSTALLATION	PRE-MOD SB 145-34-0118
34-56-01-000-802-A	GPS RECEIVER - REMOVAL	POST-MOD SB 145-34-0118
34-56-01-400-802-A	GPS RECEIVER - INSTALLATION	POST-MOD SB 145-34-0118

TASK 34-56-01-000-801-A

EFFECTIVITY: PRE-MOD SB 145-34-0118

2. FMS GPS RECEIVER - REMOVAL

A. General

(1) This procedure gives the instructions to remove the FMS1 and/or FMS2 GPS receiver(s).

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Passenger cabin, RH side

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the passenger cabin

H. Preparation

SUBTASK 841-002-A

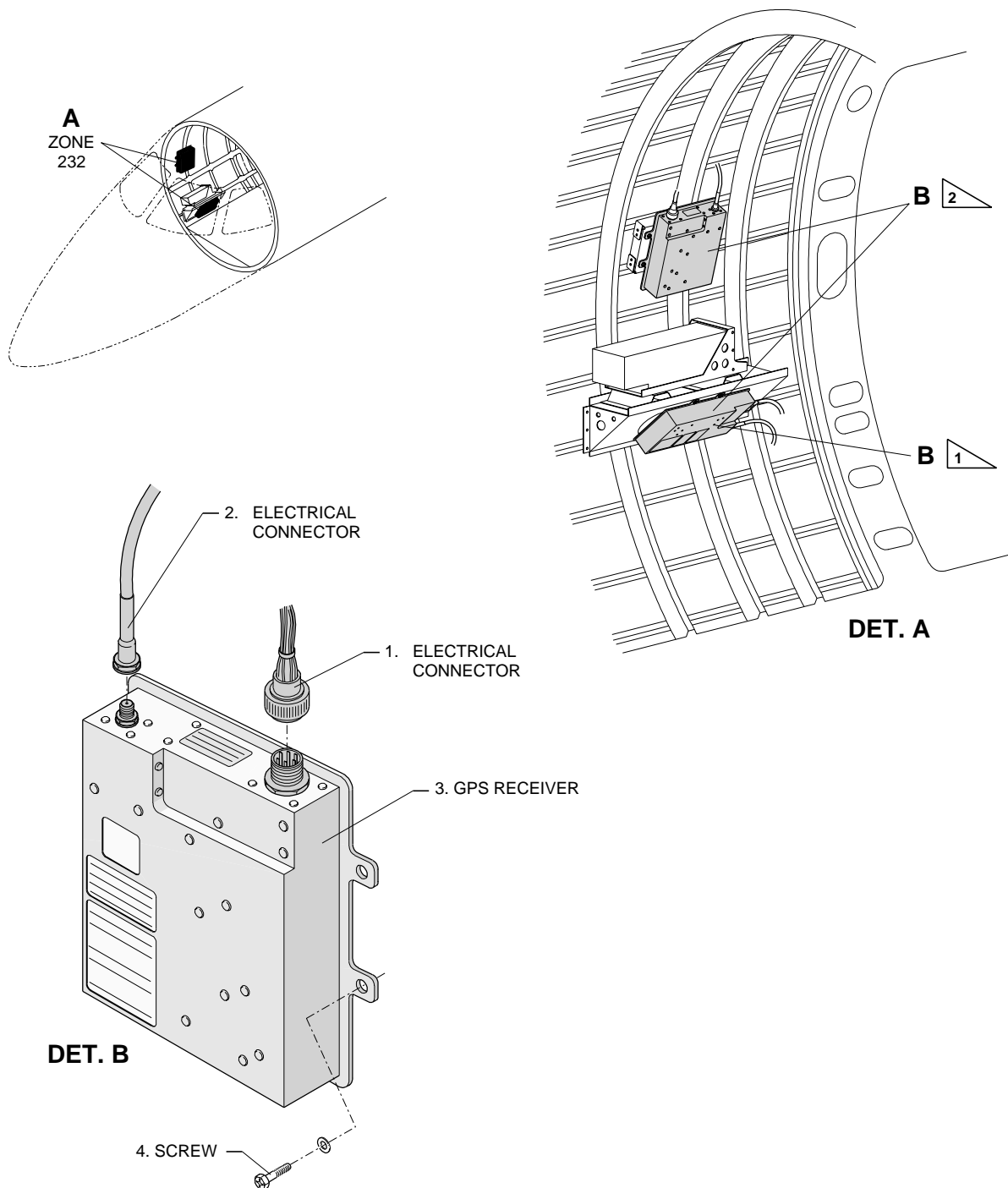
- (1) (Aircraft with Single FMS) On the circuit breaker panel, open the GPS circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) (Aircraft with Dual FMS) On the circuit breaker panel, open the GPS1 and/or GPS2 circuit breaker(s) and attach a DO-NOT-CLOSE tag to it (them).
- (3) Remove the shroud assembly of the wardrobe.

I. Removal [\(Figure 401\)](#)

SUBTASK 020-002-A

- (1) Remove the four screws (4).
- (2) Disconnect the electrical connectors (1) and (2).
- (3) Remove the GPS receiver (3).

EFFECTIVITY: PRE-MOD SB 145-34-0118
FMS GPS Receiver - Removal/Installation
Figure 401



1 AIRCRAFT WITH SINGLE FMS.

2 AIRCRAFT WITH DUAL FMS.

145AMM340347.MCE A

TASK 34-56-01-400-801-A

EFFECTIVITY: PRE-MOD SB 145-34-0118

3. FMS GPS RECEIVER - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the FMS1 and/or FMS2 GPS receiver(s).

B. References

REFERENCE	DESIGNATION
AMM TASK 34-61-00-700-801-A/500	FLIGHT MANAGEMENT SYSTEM (FMS) - OPERATIONAL TEST

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Passenger cabin, RH side

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the passenger cabin

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Connect the electrical connectors (1) and (2).
- (2) Install the GPS receiver (3).
- (3) Install the four screws (4).

J. Follow-on

SUBTASK 842-002-A

- (1) (Aircraft with Single FMS) On the circuit breaker panel, close the GPS circuit breaker and remove the DO-NOT-CLOSE tag from it.

- (2) (Aircraft with Dual FMS) On the circuit breaker panel, close the GPS1 and/or GPS2 circuit breaker(s) and remove the DO-NOT-CLOSE tag from it (them).
- (3) Do the FMS Test ([AMM TASK 34-61-00-700-801-A/500](#)).
- (4) Install the shroud assembly of the wardrobe.

TASK 34-56-01-000-802-A

EFFECTIVITY: POST-MOD SB 145-34-0118

4. GPS RECEIVER - REMOVAL

A. General

(1) This task gives the procedure to remove the GPS receiver.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-00-00-910-801-A/200	AIRCRAFT SAFE PROCEDURES FOR MAINTENANCE SERVICES - MAINTENANCE PRACTICES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Passenger cabin, RH side

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the passenger cabin

I. Preparation

SUBTASK 840-002-A

WARNING: MAKE SURE THAT THE AIRCRAFT IS IN A SAFE CONDITION BEFORE YOU DO THE MAINTENANCE PROCEDURES. THIS IS TO PREVENT INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT.

- (1) Make sure that the aircraft is safe for maintenance ([AMM TASK 20-00-00-910-801-A/200](#)).

SUBTASK 862-002-A

- (2) To remove GPS 1 receiver, open GPS 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (3) To remove GPS 2 receiver, open GPS 2 circuit breaker and attach a DO-NOT-CLOSE tag to it.

SUBTASK 010-002-A

- (4) Remove the shroud assembly of the wardrobe.

J. Removal ([Figure 402](#))

SUBTASK 000-002-A

- (1) Disconnect the coaxial connector (1) and the electrical connector (2) from the GPS receiver (3).

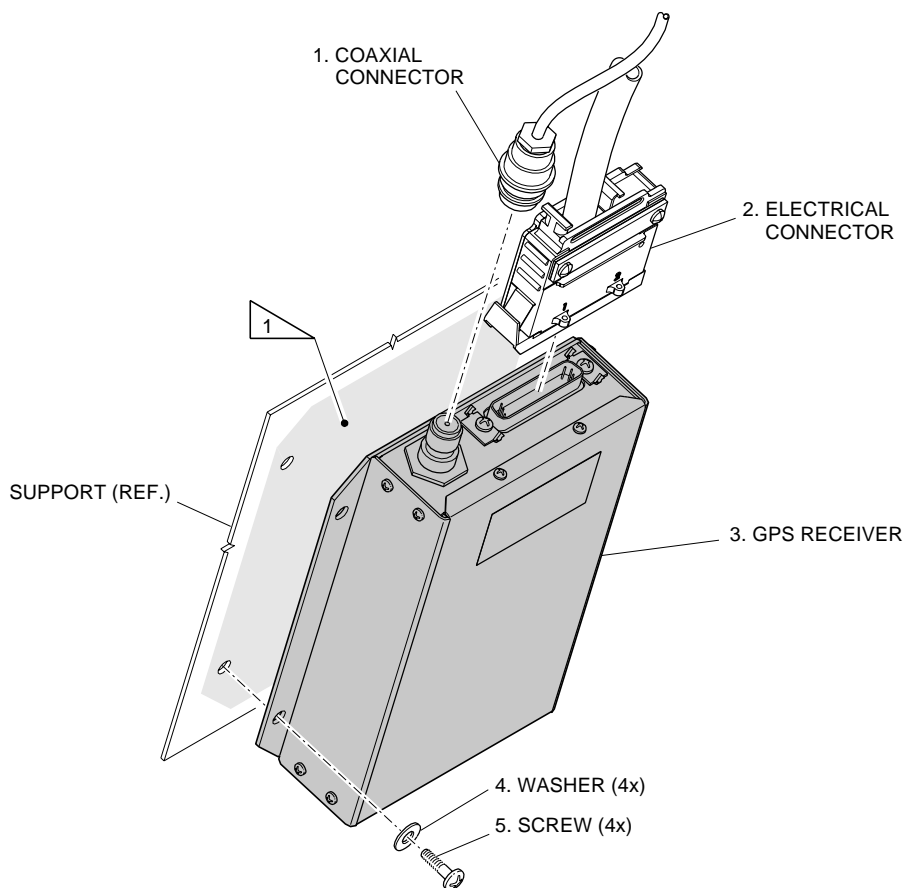
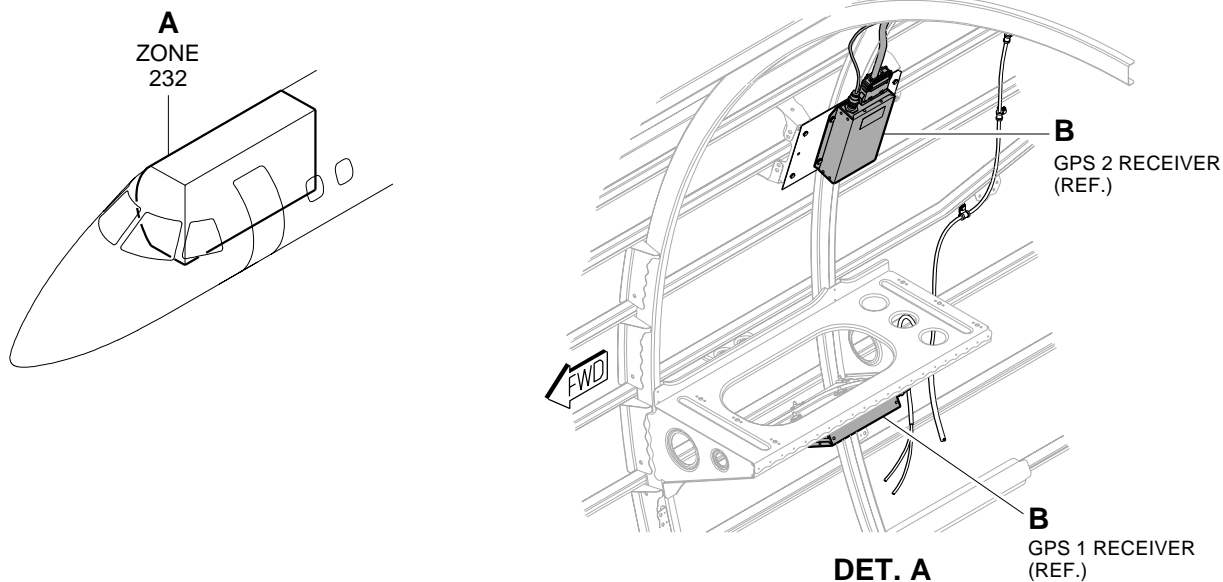
CAUTION: USE ONLY PROTECTIVE CAPS FOR THE PROTECTION OF CONNECTOR PINS OR SOCKETS IN ELECTRICAL CONNECTORS. OTHER MATERIALS CAN CAUSE DAMAGE TO THE CONNECTOR PINS OR SOCKETS, OR LET UNWANTED MATERIALS STAY IN THE CONNECTOR.

- (2) Install a protective cap on the coaxial connector (1), on the electrical connector (2) and on the connectors of the GPS receiver (3).
- (3) Remove the screws (5) and washers (4).
- (4) Remove the GPS receiver (3).

EFFECTIVITY: POST-MOD SB 145-34-0118

GPS Receiver - Removal/Installation

Figure 402



1 ELECTRICAL BONDING (METHOD 15)

DET. B
TYPICAL

EM145AMM341471A.DGN

TASK 34-56-01-400-802-A
EFFECTIVITY: POST-MOD SB 145-34-0118

5. GPS RECEIVER - INSTALLATION

A. General

(1) This task gives the procedure to install the GPS receiver.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-00-00-910-801-A/200	AIRCRAFT SAFE PROCEDURES FOR MAINTENANCE SERVICES - MAINTENANCE PRACTICES
AMM TASK 20-13-21-700-801-A/200	ELECTRICAL BONDING TEST - STANDARD PROCEDURES
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 34-56-01-000-802-A/400	GPS RECEIVER - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Passenger cabin, RH side

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the passenger cabin

I. Preparation

SUBTASK 860-002-A

(1) Make sure that the aircraft is in the same configuration as it was at the end of the removal task ([AMM TASK 34-56-01-000-802-A/400](#)).

J. Installation (Figure 402)

SUBTASK 400-002-A

CAUTION: MAKE SURE THAT THE ELECTRICAL BONDING GIVES A GOOD ELECTRIC CONDUCTIVE PATH. IF NOT, DAMAGE TO THE AIRCRAFT OR THE EQUIPMENT CAN OCCUR.

- (1) Do the bonding procedure, method 15, on the installation surfaces of the GPS receiver (3) and its support ([\(AMM TASK 20-13-21-910-801-A/200\)](#)).
- (2) Put the GPS receiver (3) in its installation position.
- (3) Install the screws (5) and washers (4).
- (4) Do the bonding test ([\(AMM TASK 20-13-21-700-801-A/200\)](#)).
- (5) Remove the protective cap from the coaxial connector (1), from the electrical connector (2) and from the connectors of the GPS receiver (3).
- (6) Connect the coaxial connector (1) and electrical connector (2) to the GPS receiver (3).

K. Follow-on

SUBTASK 940-002-A

- (1) Remove from the work area all tools, equipment, and materials that you used.

SUBTASK 862-003-A

- (2) For GPS 1 receiver, close GPS 1 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) For GPS 2 receiver, close GPS 2 circuit breaker and remove the DO-NOT-CLOSE tag from it.

SUBTASK 710-002-A

- (4) Do the operational test of the GPS as follows:

NOTE: • The aircraft must be out of the hangar so that the GPS can receive a satisfactory level of the satellite signal.

- (a) On the CDU, push the NAV function key to show NAV INDEX page 1/2.
- (b) On the CDU, push the line select key adjacent to the POS SENSORS option to show POS SENSORS page 1/2. Then, if necessary, push the NEXT key until the position related to the applicable GPS (GPS 1 or GPS 2) shows.
- (c) On the CDU, push the line select key adjacent to the STATUS option related to the applicable GPS (GPS 1 or GPS 2) to show GPS 1 STATUS or GPS 2 STATUS page 1/2.
- (d) On the CDU, push the NEXT key.

Result:

- 1 GPS 1 STATUS or GPS 2 STATUS page 2/2 shows on the CDU.
- 2 FOM < 1 NM shows on the CDU.
- 3 SATELLITES TRACKED = 4 or more shows on the CDU.
- 4 MODE = NAVIGATION shows on the CDU.

SUBTASK 410-002-A

- (5) Install the shroud assembly of the wardrobe.

SUBTASK 840-003-A

- (6) Do the procedure to restore the aircraft after the maintenance procedures ([AMM TASK 20-00-00-910-801-A/200](#)).

