



MOUNTING TRAYS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install mounting trays.
- B. There are many types of mounting trays, but the basic procedures for their removal/installation are the same.
- C. 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
20-13-07-000-801-A	MOUNTING TRAYS - REMOVAL	ALL
20-13-07-400-801-A	MOUNTING TRAYS - INSTALLATION	ALL



AIRCRAFT MAINTENANCE MANUAL

TASK 20-13-07-000-801-A

EFFECTIVITY: ALL

2. MOUNTING TRAYS - REMOVAL

A. General

- (1) This task gives the procedures to remove mounting trays.

B. References

REFERENCE	DESIGNATION
AMM TASK 23-22-03-000-801-A/400	ACARS CONFIGURATION MODULE - REMOVAL
AMM TASK 23-24-03-000-801-A/400	AIRCRAFT PERSONALITY MODULE (APM) - REMOVAL
AMM TASK 34-21-03-000-801-A/400	AHRS FAN - REMOVAL
AMM TASK 34-21-04-000-801-A/400	AHRS MEMORY MODULE - REMOVAL
AMM TASK 34-23-05-000-801-A/400	HGS COMPUTER FAN - REMOVAL
AMM TASK 34-24-02-000-801-A/400	STANDBY ATTITUDE INDICATOR MOUNTING TRAY - REMOVAL
AMM TASK 34-26-03-000-801-A/400	SINGLE IRS UNIT FAN - REMOVAL
AMM TASK 34-27-03-000-801-A/400	IRS FAN - REMOVAL
AMM TASK 34-32-11-000-801-A/400	NAV UNIT STRAP BOARD ASSEMBLY - REMOVAL
AMM TASK 34-43-04-000-801-A/400	TCAS COOLING FAN - REMOVAL
AMM TASK 34-52-09-000-801-A/400	COM UNIT STRAP-BOARD ASSEMBLY - REMOVAL
AMM TASK 34-62-03-000-803-A/400	DUAL FMS CONFIGURATION MODULE - REMOVAL
AMM TASK 34-62-03-000-804-A/400	SINGLE FMS CONFIGURATION MODULE - REMOVAL

C. Zones and Accesses

Not Applicable

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	Where applicable



I. Preparation

SUBTASK 841-002-A

- (1) Remove the electronic unit from the mounting tray.

NOTE: Refer to the related electronic unit removal procedure.

J. Removal (Figure 401) (Figure 402) (Figure 403) (Figure 404) (Figure 405)

SUBTASK 020-002-A

- (1) Mounting trays on palmer plate ([Figure 401](#)) and on the structure ([Figure 402](#)):

CAUTION: DURING THE REMOVAL OF THE SCREWS FROM THE ELECTRIC CONNECTORS, BE CAREFUL NOT TO LET THE WASHERS AND NUTS ON THEIR BACK FALL DOWN.

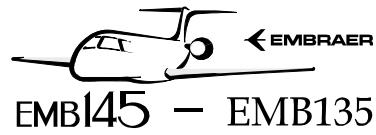
- (a) Remove the screws (3), washers (1) and nuts (2), if applicable, from the electric connectors (4).
- (b) (TCAS mounting tray) Refer to [AMM TASK 34-43-04-000-801-A/400](#) to remove the TCAS cooling fan from the mounting tray, if applicable.
- (c) (ACARS mounting tray) Refer to [AMM TASK 23-22-03-000-801-A/400](#) to remove the ACARS configuration module from the mounting tray and to remove the mounting tray from the structure. End of the task.
- (d) (CMU mounting tray) Refer to [AMM TASK 23-24-03-000-801-A/400](#) to remove the AIRCRAFT PERSONALITY MODULE (APM) from the mounting tray.
- (e) (AHRS AH-800 mounting tray) Refer to [AMM TASK 34-21-04-000-801-A/400](#) to remove the AHRS memory module and to remove the mounting tray from the structure. Also, refer to [AMM TASK 34-21-03-000-801-A/400](#) to remove AHRS fan from the mounting tray. End of the task.
- (f) (AHRS AH-900 mounting tray) Refer to [AMM TASK 34-21-03-000-801-A/400](#) to remove the AHRS fan from the mounting tray.
- (g) (HGS mounting tray) Refer to [AMM TASK 34-23-05-000-801-A/400](#) to remove the HGS computer fan from the mounting tray.
- (h) (Standby Attitude Indicator mounting tray installed on the top of the glareshield panel) Refer to [AMM TASK 34-24-02-000-801-A/400](#) to remove the mounting tray. End of the task.
- (i) (Single IRS mounting tray) Refer to [AMM TASK 34-26-03-000-801-A/400](#) to remove the IRS fan from the mounting tray.
- (j) (Dual IRS mounting tray) Refer to [AMM TASK 34-27-03-000-801-A/400](#) to remove the IRS fan from the mounting tray.
- (k) (NAV unit mounting tray) Refer to [AMM TASK 34-32-11-000-801-A/400](#) to remove the NAV unit strap board assembly from the mounting tray.
- (l) (COM unit mounting tray) Refer to [AMM TASK 34-52-09-000-801-A/400](#) to remove the COM unit strap board assembly from the mounting tray.

- (m) (Dual FMS - Universal - mounting tray) Refer to [AMM TASK 34-62-03-000-803-A/400](#) to remove the FMS configuration module from the mounting tray and to remove the mounting tray from the structure. End of the task.
 - (n) (Single FMS - Universal - mounting tray) Refer to [AMM TASK 34-62-03-000-804-A/400](#) to remove the FMS configuration module from the mounting tray and to remove the mounting tray from the structure. End of the task.
 - (o) (IC-600 mounting tray) Refer to [Figure 401](#) to remove the screws (6) from the configuration module (5), if applicable, attached to the mounting tray (7).
 - (p) Remove the electric connector (4) with its harnesses from the mounting tray (7). To do this, tilt the electric connector (4) without the screws (3) until it is possible to put it through the mounting tray hole.
 - (q) Remove the screws (8) from the mounting tray (7).
 - (r) Remove the mounting tray (7) from the palmer plate (10) ([Figure 401](#)) or from the structure (11) ([Figure 402](#)), as applicable.
- (2) Mounting trays with built-in connectors ([Figure 403](#)):
- (a) **NOTE:** To make the installation easier, the electric connectors must be identified and have location information.

Disconnect all the electric connectors (5) from the mounting tray (1).
- CAUTION:** DURING THE REMOVAL OF THE SCREWS, WASHERS AND NUTS FROM THE MOUNTING TRAY, BE CAREFUL NOT TO LET THEM FALL DOWN.
- (b) Remove the screws (3), washers (4), (8) and nuts (7) from the mounting tray (1).
 - (c) Remove the mounting tray (1) from the structure (6).
- (3) Mounting trays assembled on shock mounts ([Figure 404](#)):
- CAUTION:** DURING THE REMOVAL OF THE SCREWS FROM THE ELECTRIC CONNECTORS, BE CAREFUL NOT TO LET THE WASHERS AND NUTS ON THEIR BACK FALL DOWN.
- (a) Remove the screws (9), washers (7) and nuts (8), if applicable, from the electric connector (6).
 - (b) **NOTE:** To remove the electric connector (6), tilt it without the screws (9) until it is possible to put it through the mounting tray hole.

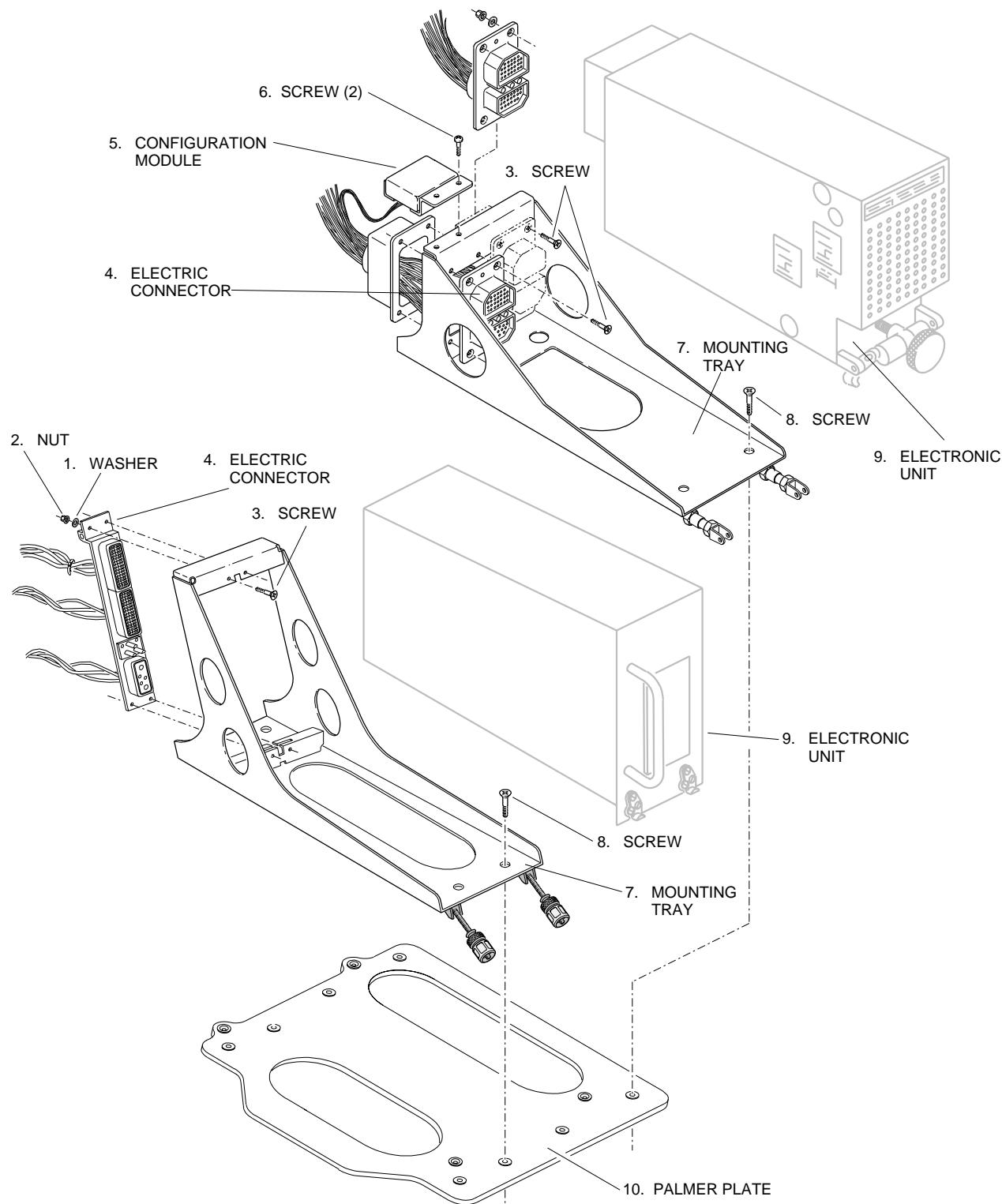
Remove the electric connector (6) with its harnesses from the mounting tray (5).
 - (c) Remove the screws (2) from the mounting tray (5).
 - (d) **NOTE:** Look to see where the grounding cable (4) is connected before the removal of the mounting tray (5). This will make the installation easier.

Remove the mounting tray (5) from the shock mounts (3) ([Figure 404](#)).
- (4) Mounting trays with coaxial connector(s) ([Figure 405](#)):



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- (a) Remove the coaxial cable(s) from the coaxial connector(s) (Figure 405).
- (b) Remove the mounting tray as written in items 1, 2, or 3.

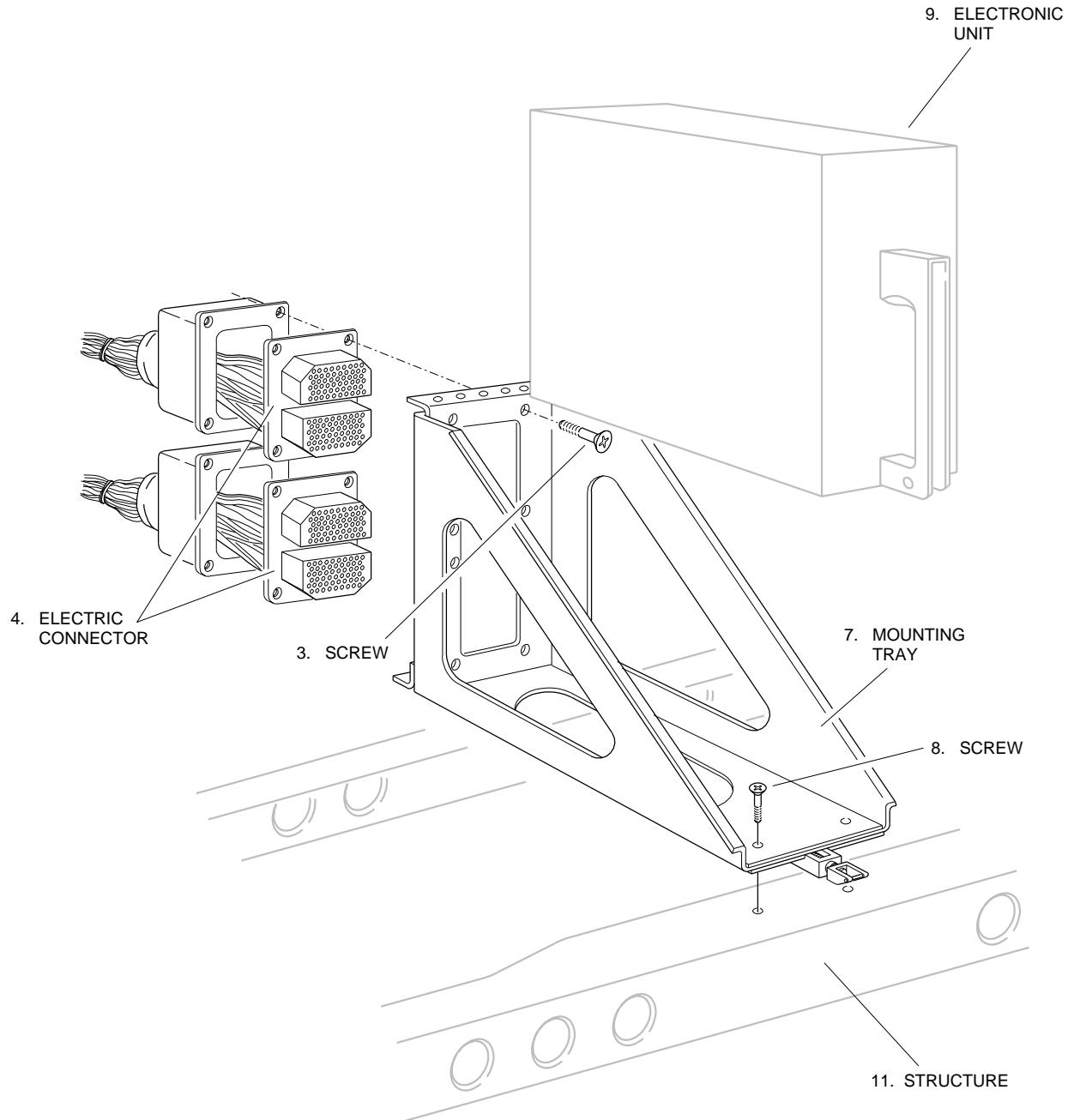
EFFECTIVITY: ALL
Mounting Trays on Palmer - Removal/Installation (Typical)
Figure 401


145AMM310259.MCE

EFFECTIVITY: ALL

Mounting Trays on Structure - Removal/Installation (Typical)

Figure 402

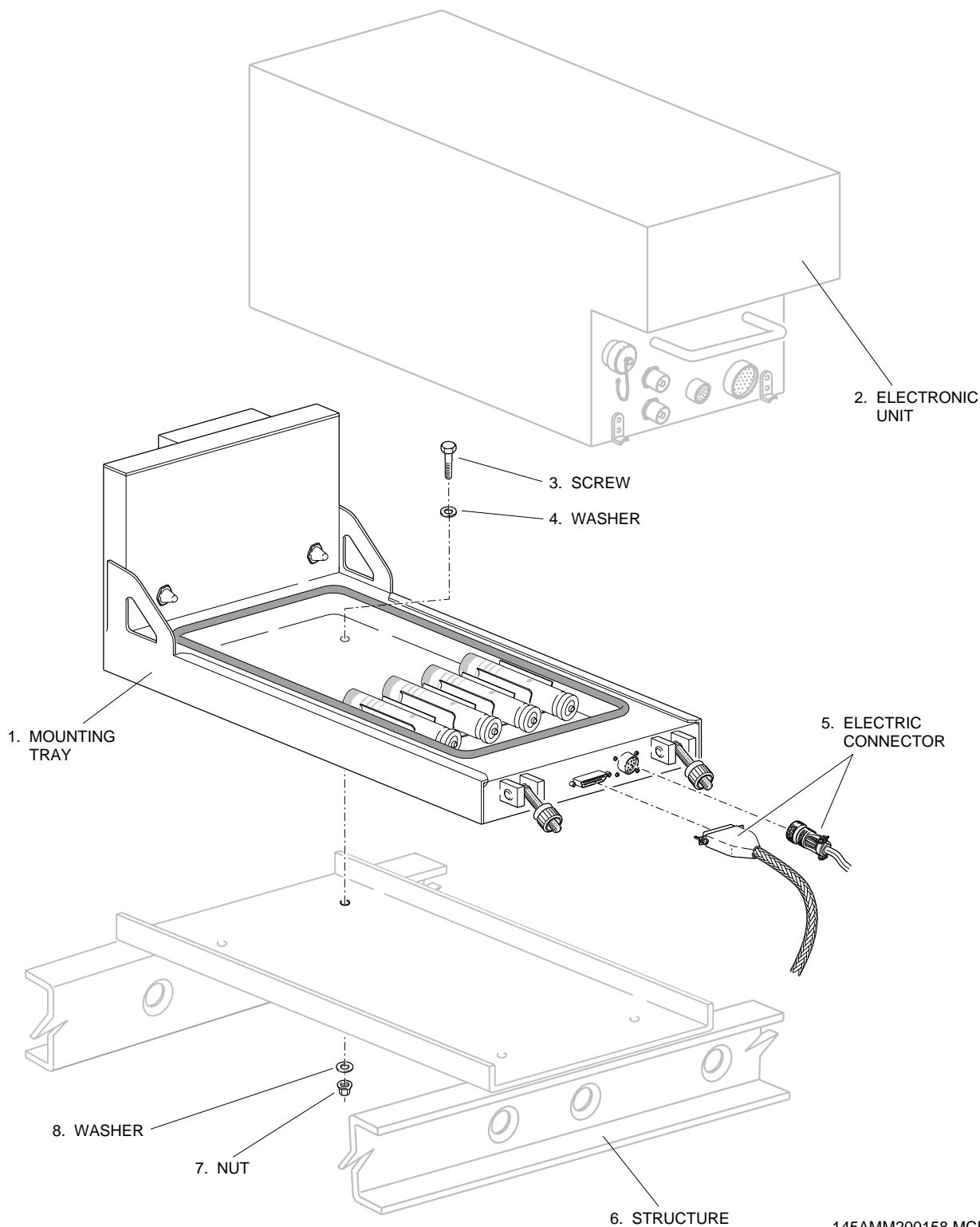


145AMM310264.MCE

EFFECTIVITY: ALL

Mounting Trays with Built-in Electric Connectors - Removal/Installation(Typical)

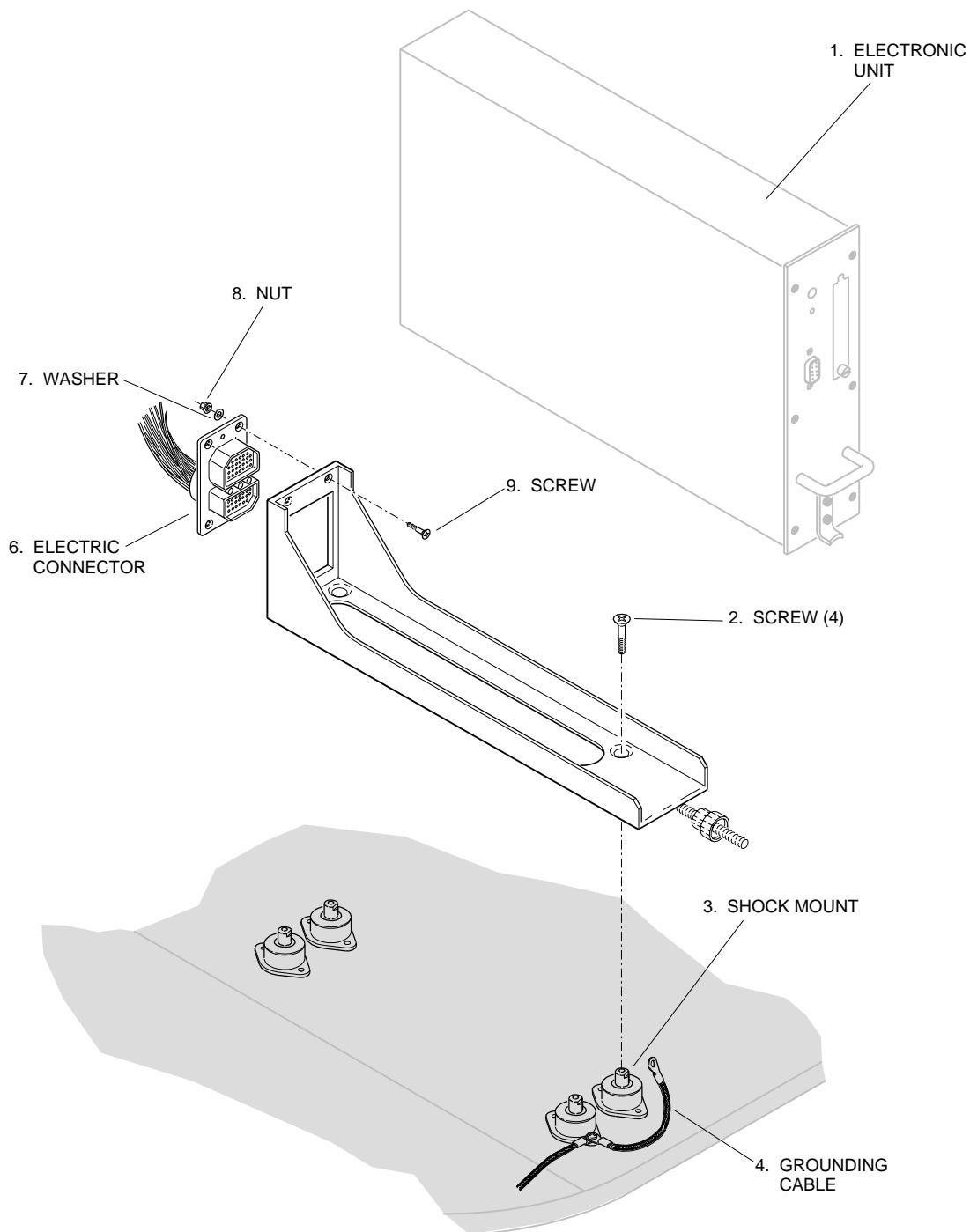
Figure 403



145AMM200158.MCE

EFFECTIVITY: ALL

Mounting Trays Assembled on Shock Mounts - Removal/Installation(Typical)
Figure 404

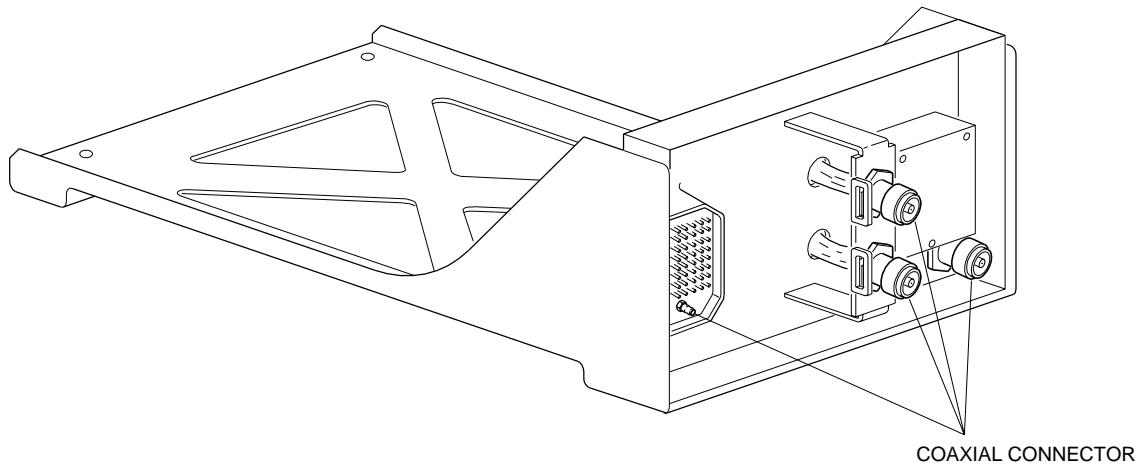
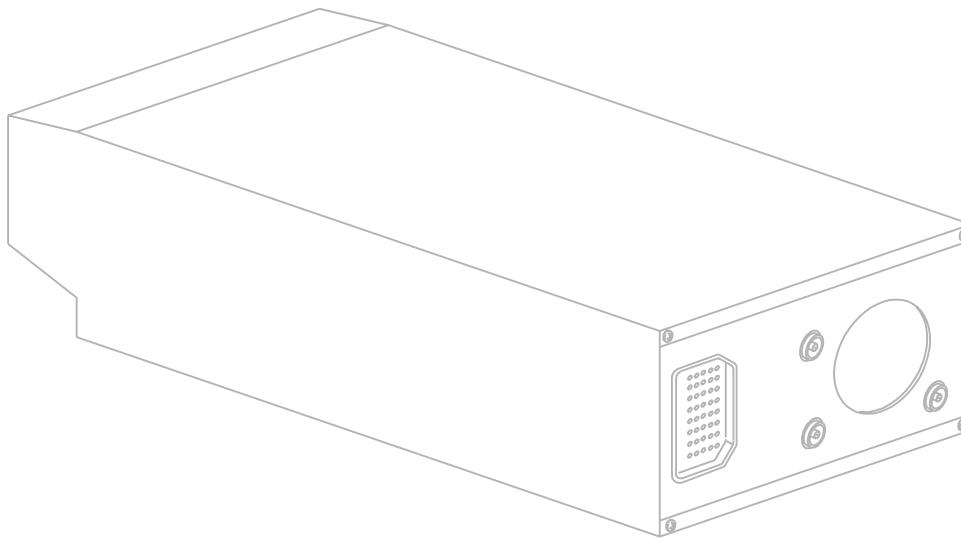


145AMM200159.MCE

EFFECTIVITY: ALL

Mounting Trays with Coaxial Connector(s) - Removal/Installation(Typical)

Figure 405



145AMM200167.MCE

TASK 20-13-07-400-801-A
EFFECTIVITY: ALL
3. MOUNTING TRAYS - INSTALLATION
A. General

- (1) This task gives the procedures to install mounting trays.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 23-22-03-400-801-A/400	ACARS CONFIGURATION MODULE - INSTALLATION
AMM TASK 23-24-03-400-801-A/400	AIRCRAFT PERSONALITY MODULE (APM) - INSTALLATION
AMM TASK 34-21-00-700-804-A/500	AHRS - MOUNTING TRAY LEVELING/ALIGNMENT
AMM TASK 34-21-03-400-801-A/400	AHRS FAN - INSTALLATION
AMM TASK 34-21-04-400-801-A/400	AHRS MEMORY MODULE - INSTALLATION
AMM TASK 34-23-05-400-801-A/400	HGS COMPUTER FAN - INSTALLATION
AMM TASK 34-24-02-400-801-A/400	STANDBY ATTITUDE INDICATOR MOUNTING TRAY - INSTALLATION
AMM TASK 34-26-00-700-802-A/500	SINGLE IRS - MOUNTING TRAY LEVELING/ALIGNMENT
AMM TASK 34-26-03-400-801-A/400	SINGLE IRS UNIT FAN - INSTALLATION
AMM TASK 34-27-00-700-802-A/500	DUAL IRS - MOUNTING TRAY LEVELING/ALIGNMENT
AMM TASK 34-27-03-400-801-A/400	IRS FAN - INSTALLATION
AMM TASK 34-32-11-400-801-A/400	NAV UNIT STRAP BOARD ASSEMBLY - INSTALLATION
AMM TASK 34-43-04-400-801-A/400	TCAS COOLING FAN - INSTALLATION
AMM TASK 34-52-09-400-801-A/400	COM UNIT STRAP-BOARD ASSEMBLY - INSTALLATION
AMM TASK 34-62-03-400-803-A/400	DUAL FMS CONFIGURATION MODULE - INSTALLATION
AMM TASK 34-62-03-400-804-A/400	SINGLE FMS CONFIGURATION MODULE - INSTALLATION
WM 20-50-00	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable



EMB145 - EMB135

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F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-S-8660	Dow Corning No. 4 Lubricant Compound	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Where applicable

I. Installation (Figure 401) (Figure 402) (Figure 403) (Figure 404) (Figure 405)

SUBTASK 420-002-A

- (1) Mounting trays on palmer plate (Figure 401) and on the structure (Figure 402):

NOTE: For installation of mounting tray P/N 26012346-101, if the fan housing is not forward (in relation to the flight direction) of the mounting tray, remove the fan housing and install it in the opposite position. Use the same installation components.

- (a) Put the electric connector (4) through the mounting tray hole. Install the electric connectors (4), screws (3), washers (1) and nuts (2), if applicable.
- (b) (TCAS mounting tray) Refer to [AMM TASK 34-43-04-400-801-A/400](#) to install the TCAS cooling fan on the mounting tray, if applicable.
- (c) (ACARS mounting tray) Refer to [AMM TASK 23-22-03-400-801-A/400](#) to install the ACARS configuration module on the mounting tray and to install the mounting tray on the structure. End of the task.
- (d) (CMU mounting tray) Refer to [AMM TASK 23-24-03-400-801-A/400](#) to install the AIRCRAFT PERSONALITY MODULE (APM) on the mounting tray.
- (e) (AHRS AH-800 mounting tray) Refer to [AMM TASK 34-21-04-400-801-A/400](#) to install the AHRS memory module and to install, align and make the mounting tray level. Also, refer to [AMM TASK 34-21-03-400-801-A/400](#) to install the AHRS fan on the mounting tray. End of the task.
- (f) (AHRS AH-900 mounting tray) Refer to [AMM TASK 34-21-03-400-801-A/400](#) to install the AHRS fan on the mounting tray. Also, refer to [AMM TASK 34-21-00-700-804-A/500](#) to install, align and make the mounting tray level. End of the task.
- (g) (HGS mounting tray) Refer to [AMM TASK 34-23-05-400-801-A/400](#) to install the HGS computer fan on the mounting tray.
- (h) (Standby Attitude Indicator mounting tray installed on the top of the glareshield panel) Refer to [AMM TASK 34-24-02-400-801-A/400](#) to install the mounting tray. End of the task.

- (i) (Single IRS mounting tray) Refer to [AMM TASK 34-26-03-400-801-A/400](#) to install the IRS fan on the mounting tray. Also, refer to [AMM TASK 34-26-00-700-802-A/500](#) to install, align and to make the mounting tray level. End of the task.
- (j) (Dual IRS mounting tray) Refer to [AMM TASK 34-27-03-400-801-A/400](#) to install the IRS fan on the mounting tray. Also, refer to [AMM TASK 34-27-00-700-802-A/500](#) to install, align and to make the mounting tray level. End of the task.
- (k) (NAV unit mounting tray) Refer to item 4 in this task to prevent corrosion on the coaxial connectors installed on the mounting tray (Figure 405). Also, refer to [AMM TASK 34-32-11-400-801-A/400](#) to install the NAV unit strap board assembly on the mounting tray.
- (l) (COM unit mounting tray) Refer to item 4 in this task to prevent corrosion on the coaxial connectors installed on the mounting tray (Figure 405). Also, refer to [AMM TASK 34-52-09-400-801-A/400](#) to install the COM unit strap board assembly on the mounting tray.
- (m) (Dual FMS - Universal - mounting tray) Refer to [AMM TASK 34-62-03-400-803-A/400](#) to install the FMS configuration module on the mounting tray and to install the mounting tray to the structure. End of the task.
- (n) (Single FMS - Universal - mounting tray) Refer to [AMM TASK 34-62-03-400-804-A/400](#) to install the FMS configuration module on the mounting tray and to install the mounting tray to the structure. End of the task.
- (o) (IC-600 mounting tray) Refer to (Figure 401) and install the screws (6) on the configuration module (5), if applicable, attached to the mounting tray (7).

CAUTION: THE STRUCTURE SURFACE (11) AND THE MOUNTING TRAY SURFACE (7), WHICH WILL BE IN CONTACT, MUST BE PREPARED FOR ELECTRICAL BONDING ([AMM TASK 20-13-21-910-801-A/200](#)) . IF THE MOUNTING TRAY (7) IS TO BE PUT ON A PALMER PLATE (10), THIS PROCEDURE IS NOT NECESSARY, BUT MAKE SURE THAT THE SURFACES ARE CLEAN FOR THE CORRECT CONTACT.

- (p) Install the mounting tray (7) on the palmer plate (10) (Figure 401) or on the structure surface (11) (Figure 402), as applicable.
 - (q) Install the screws (8) to the mounting tray (7).
- (2) Mounting trays with built-in connectors (Figure 403):

CAUTION: MAKE SURE THAT THE FAYING SURFACES OF THE MOUNTING TRAY AND THE STRUCTURE ARE CLEAN FOR THE CORRECT CONTACT.

- (a) Put the mounting tray (1) in its position, on the structure (6).
- (b) Install the screws (3), washers (4), (8) and nuts (7) to the mounting tray (1).

CAUTION: MAKE SURE THAT THE CORRECT ELECTRIC CONNECTORS ARE CONNECTED. INCORRECT INSTALLATION WILL CAUSE DAMAGE TO THE EQUIPMENT.

- (c) Connect all the electric connectors (5) to the mounting tray (1).
- (3) Mounting trays assembled on shock mounts (Figure 404):
 - (a) Put the electric connector (6) through the mounting tray hole. Install the electric connector (6), screws (9), washers (7) and nuts (8), if applicable.
- CAUTION: MAKE SURE THAT THE FAYING SURFACES OF THE GROUNDING CABLE CONNECTOR (4), THE MOUNTING TRAY (5) AND THE SHOCK MOUNTS (3) ARE CLEAN FOR THE CORRECT CONTACT.**
- (b) Put the grounding cable (4) between the mounting tray (5) and the shock mount (3), before you install the mounting tray (5). Refer to (Figure 404).
- (c) Install the mounting tray (5) on the shock mounts (3).
- (d) Install the screws (2) to the mounting tray (5).
- (4) Mounting trays with coaxial connector(s) (Figure 405):
 - (a) Clean or replace the coaxial connector(s) (Figure 405), as necessary (WM 20-50-00).
 - (b) Fill the internal part of the coaxial connector(s) and its (their) mate(s) with Dow Corning No. 4 Lubricant Compound (WM 20-50-00).
 - (c) Install the mounting tray as written in items 1, 2, or 3.

J. Follow-on

SUBTASK 842-002-A

- (1) **NOTE:** Refer to the related electronic unit installation procedure.
Install the electronic unit to the mounting tray.