



AIRCRAFT  
MAINTENANCE MANUAL

PASSENGER SERVICE UNIT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the passenger service units (PSUs).
- 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
25-22-05-000-801-A	PSUS - REMOVAL	ALL
25-22-05-400-801-A	PSUS - INSTALLATION	ALL



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 25-22-05-000-801-A

EFFECTIVITY: ALL

2. PSUS - REMOVAL

A. General

- (1) This task gives the procedures to remove the PSUs.
- (2) There are six types of PSU assemblies as follows: a standard LH PSU assembly, a standard RH PSU assembly, a LH mid-section PSU assembly, a RH mid-section PSU assembly, a LH emergency-exit PSU assembly, and a RH emergency-exit PSU assembly.
- (3) The PSUs are installed in the passenger cabin of the aircraft, at zones 233, 234, 243, 244, 253, 254, 263, and 264.

B. References

REFERENCE	DESIGNATION
IPC 25-60-05	LIFE RAFT

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	Passenger cabin

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) On the circuit breaker panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:
  - (a) PASS OXY DEPLOY 1 (Location Tip: ESSENTIAL DC BUS 1/MISCELLANEOUS/PASS OXY DEPLOY 1).
  - (b) PASS OXY DEPLOY 2 (Location Tip: ESSENTIAL DC BUS 2/PASS OXY DEPLOY 2).

- (c) EMERG (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).
- (d) PASS SIGNS (Location Tip: DC BUS 1/LIGHTS/PASS SIGNS).
- (3) On the LH Electrical Power Control/Distribution Box, open the RDNG LT/ATTD CALL 1 circuit breaker and attach a DO-NOT-CLOSE tag to it (Location Tip: RB SHED DC BUS 1/RDNG LT/ATTD CALL 1).
- (4) On the RH Electrical Power Control/Distribution Box, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:
  - (a) RDNG LT/ATTD CALL 2 (Location Tip: RB SHED BUS 2/RDNG LT/ATTD CALL 2).
  - (b) RDNG LT/ATTD CALL 3 (Location Tip: RB SHED BUS 2/RDNG LT/ATTD CALL 3).

**J. Removal (Figure 401)**

**SUBTASK 020-002-A**

- (1) Remove the PSU as follows:

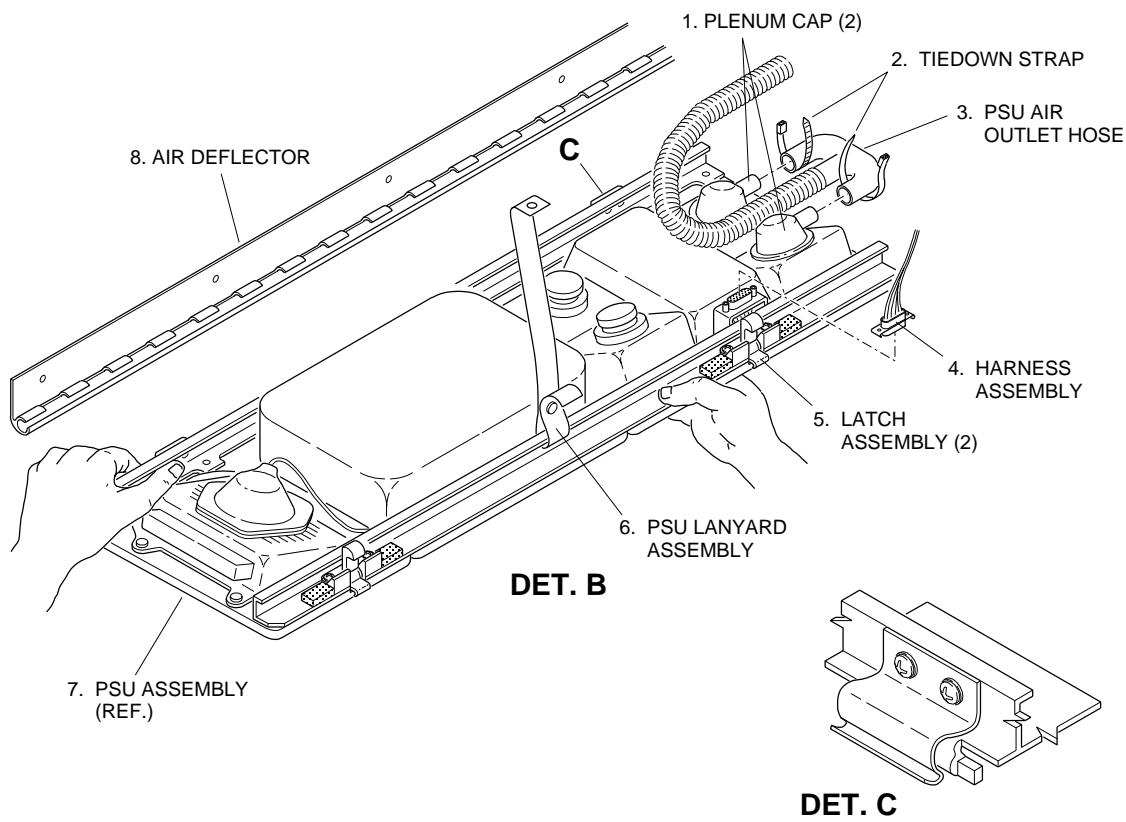
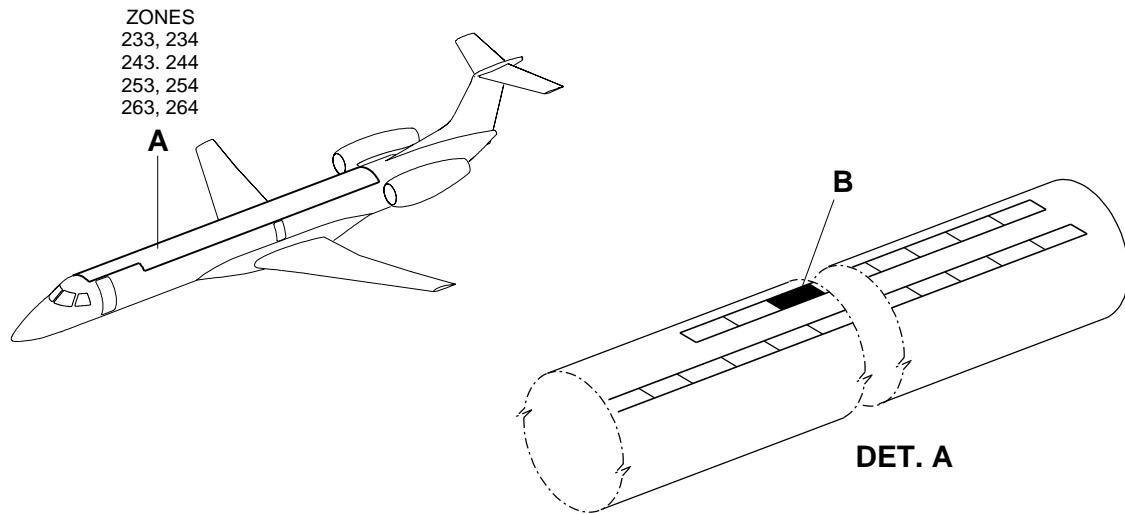
NOTE: You must use this procedure for all types of PSUs.

- (a) With the aid of the manual release tool (IPC 25-60-05), open the latch assembly (5).
- (b) Disconnect the harness assembly (4).
- (c) Pull to open the PSU lanyard assembly (6).
- (d) Break the tiedown straps (2) that attach the PSU air-outlet hose (3).
- (e) Pull the PSU air-outlet hose (3) to remove it from the plenum caps (1).
- (f) To remove the PSU assembly (7), release it from the air deflector (8).

**EFFECTIVITY: ALL**

Passenger Service Units (PSUs) - Removal/Installation

Figure 401





AIRCRAFT  
MAINTENANCE MANUAL

TASK 25-22-05-400-801-A

EFFECTIVITY: ALL

3. PSUS - INSTALLATION

A. General

- (1) This task gives the procedures to install the PSUs.
- (2) There are six types of PSU assemblies as follows: a standard LH PSU assembly, a standard RH PSU assembly, an LH mid-section PSU assembly, an RH mid-section PSU assembly, an LH emergency-exit PSU assembly, and an RH emergency-exit PSU assembly.
- (3) The PSUs are installed in the passenger cabin of the aircraft, at zones 233, 234, 243, 244, 253, 254, 263, and 264.

B. References

REFERENCE	DESIGNATION
AMM TASK 35-20-00-700-801-A/500	-
AMM TASK 35-20-00-700-802-A/500	-
IPC 25-22-05	PSU

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Tiedown Strap	IPC 25-22-05	AR

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Passenger cabin

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the PSU as follows:

NOTE: You must use this procedure for all types of PSUs.

- (a) Click the PSU assembly (7) into the air deflector (8).
- (b) Connect the PSU air-outlet hose (3) to the plenum caps (1).
- (c) Attach the PSU air-outlet hose (3) with new tiedown straps (2).
- (d) Install the PSU lanyard assembly (6) and push to close it.
- (e) Connect the harness assembly (4).
- (f) Close the latch assemblies (5).

J. Follow-on

**SUBTASK 842-002-A**

- (1) On the RH Electrical Power Control/Distribution Box, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
  - (a) RDNG LT/ATTD CALL 2 (Location Tip: RB SHED BUS 2/RDNG LT/ATTD CALL 2).
  - (b) RDNG LT/ATTD CALL 3 (Location Tip: RB SHED BUS 2/RDNG LT/ATTD CALL 3).
- (2) On the LH Electrical Power Control/Distribution Box, close the RDNG LT/ATTD CALL 1 circuit breaker and remove the DO-NOT-CLOSE tag from it (Location Tip: RB SHED DC BUS 1/RDNG LT/ATTD CALL 1).
- (3) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
  - (a) PASS OXY DEPLOY 1 (Location Tip: ESSENTIAL DC BUS 1/MISCELLANEOUS/PASS OXY DEPLOY 1).
  - (b) PASS OXY DEPLOY 2 (Location Tip: ESSENTIAL DC BUS 2/PASS OXY DEPLOY 2).
  - (c) EMERG (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).
  - (d) PASS SIGNS (Location Tip: DC BUS 1/LIGHTS/PASS SIGNS).
- (4) Do an operational test of the passenger oxygen subsystem (AMM TASK 35-20-00-700-801-A/500) or (AMM TASK 35-20-00-700-802-A/500), as applicable.