



## AIRCRAFT MAINTENANCE MANUAL

### PRESSURE REGULATOR VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

#### 1. General

- A. This section gives the procedures to remove and install the pressure regulator valve. The removal/installation procedures are applicable to the two pressure regulator valves.
- B. The pressure regulator valves are installed at the external bottom surface of center fuselage III, inside the wing-to-fuselage fairing.
- 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
21-31-05-000-801-A	PRESSURE REGULATOR VALVE - REMOVAL	ALL
21-31-05-400-801-A	PRESSURE REGULATOR VALVE - INSTALLATION	ALL



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TASK 21-31-05-000-801-A

EFFECTIVITY: ALL

2. PRESSURE REGULATOR VALVE - REMOVAL

A. General

- (1) This task gives the procedures to remove the pressure regulator valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Left side of the wing-to-fuselage fairing
191	191FR	Right side of the wing-to-fuselage fairing
191	191ML	Left side of the wing-to-fuselage fairing
191	191NR	Right side of the wing-to-fuselage fairing

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	External bottom surface of center fuselage III, inside the wing-to-fuselage fairing

I. Preparation ([Figure 401](#))

SUBTASK 841-002-A

- (1) On the overhead circuit breaker panel, open the applicable circuit breakers shown below and attach DO-NOT-CLOSE tags to them:
- PACK 1 (Location tip: DC BUS 1 / AIR COND/PNEU / PACK 1).
  - PACK 2 (Location tip: DC BUS 2 / AIR COND/PNEU / PACK 2).
  - EBV 1 (Location tip: ESSENTIAL DC BUS 1 / AIR COND/PNEU / EBV 1).
  - EBV 2 (Location tip: ESSENTIAL DC BUS 2 / AIR COND/PNEU / EBV 2).



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- APU BLEED (Location tip: ESSENTIAL DC BUS 1 / AIR COND/PNEU / APU BLEED).
- (2) Remove access panel(s) 191EL and/or 191FR (AMM MPP 06-41-01/100), as applicable.
  - (3) Loosen the clamp (7) to disconnect the bellows (9) from the outlet duct (8).
  - (4) Remove the screws (5) (10 positions) and then remove the outlet grate (6) (access panels 191ML and 191NR) (AMM MPP 06-41-01/100).
  - (5) Remove the bolts (4) and washers (3) (6 positions). Get access to the bolts (4) and washers (3) through the outlet duct (8) inner side.
  - (6) Remove the outlet duct (8) from the dual heat exchanger (1).

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

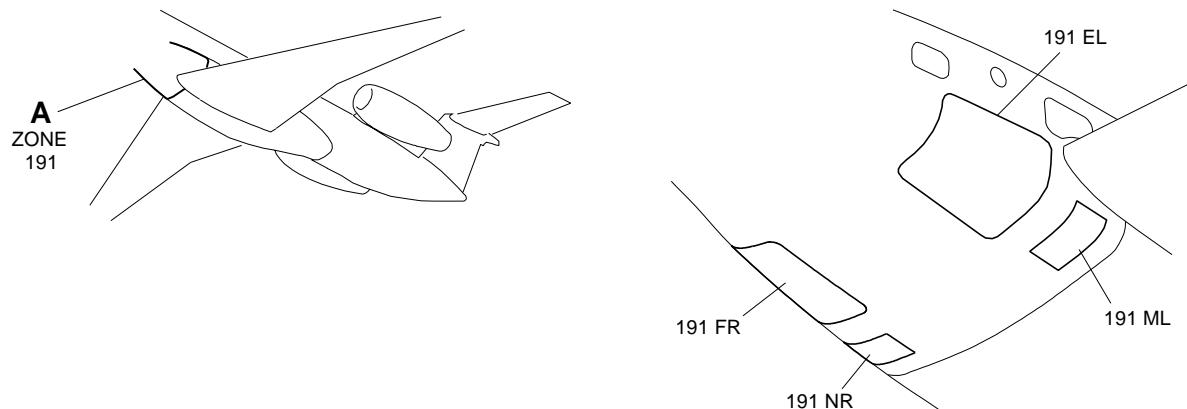
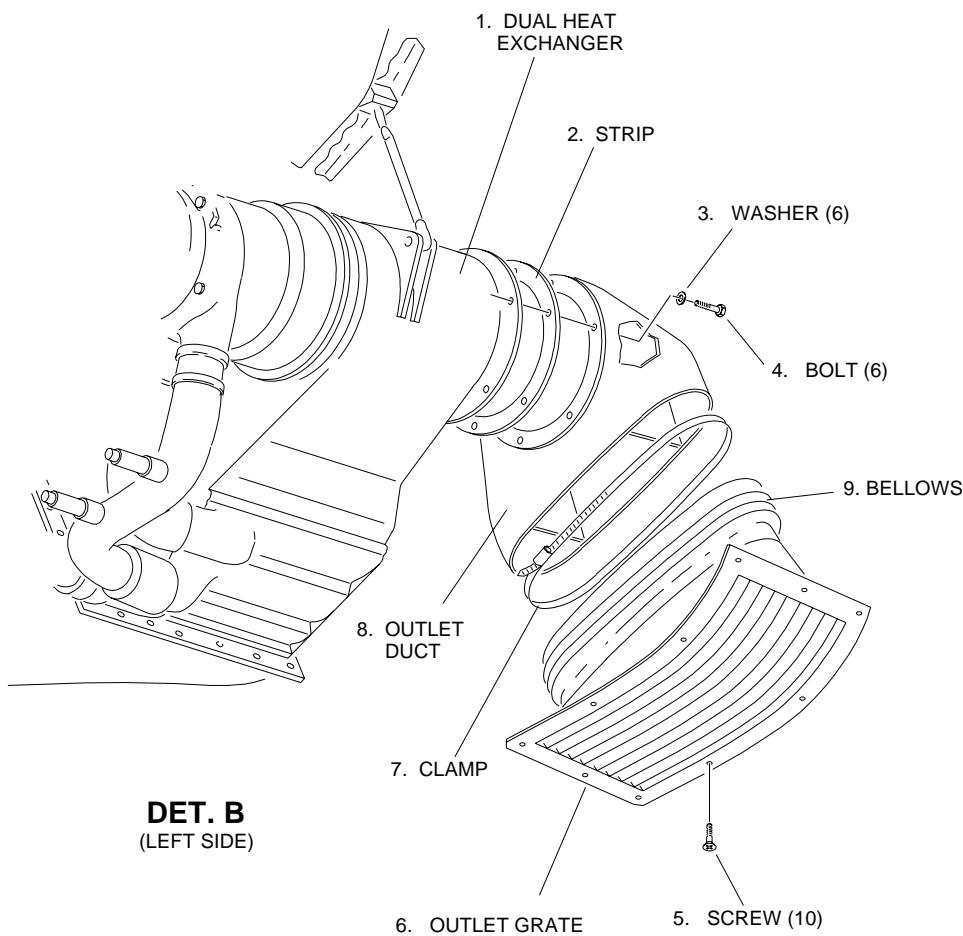
SUBTASK 020-002-A

- (1) Disconnect the hose (5) and tube (4) from the pressure regulator valve (1).
- (2) Remove the screws (2) and washers (3).
- (3) Remove the pressure regulator valve (1).
- (4) Install caps on the open tube and hose.

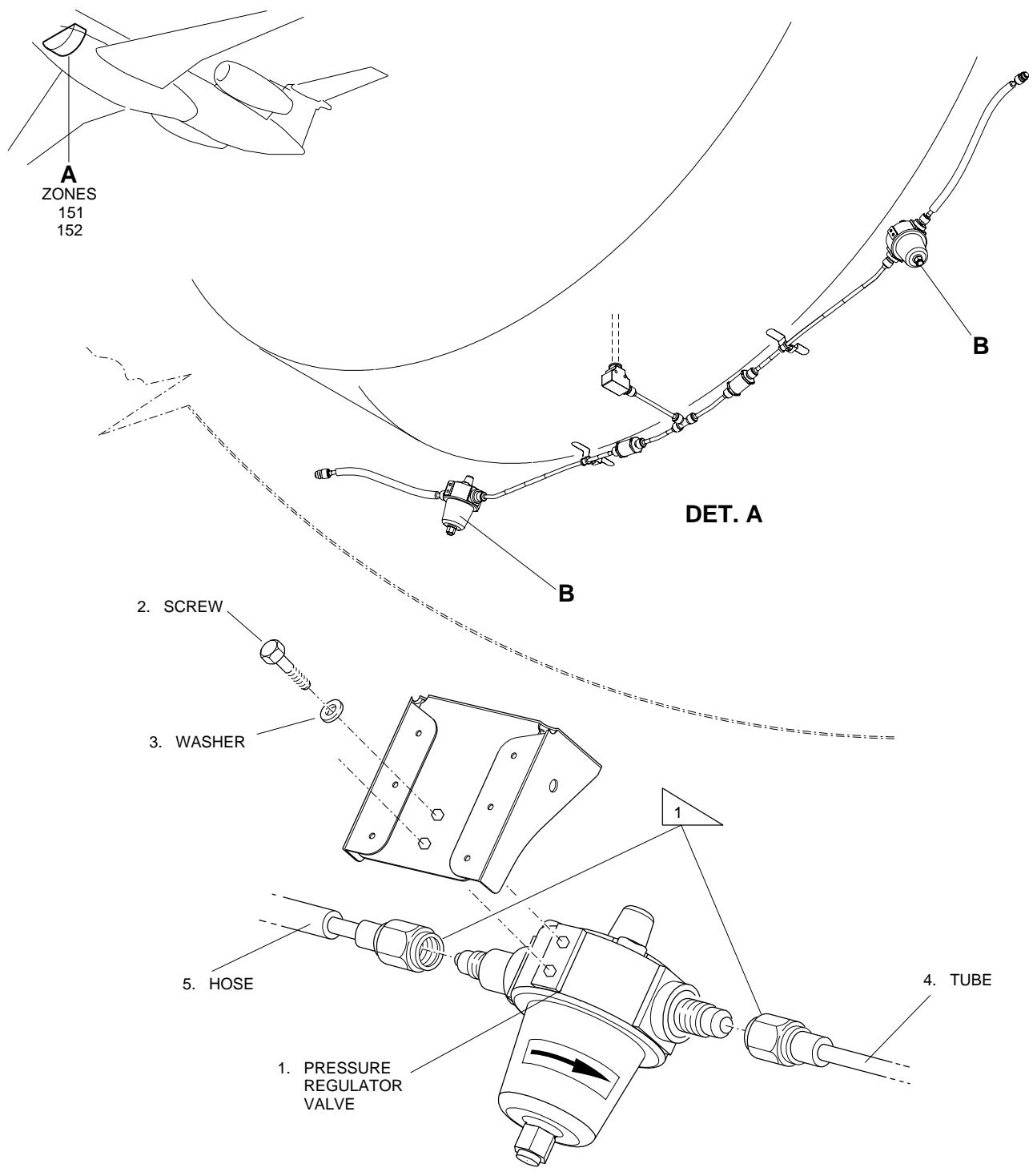
**EFFECTIVITY: ALL**

Outlet Grate and Duct - Removal/Installation

Figure 401


**DET. A**

**DET. B**  
 (LEFT SIDE)

**EFFECTIVITY: ALL**

 Pressure Regulator Valve - Removal/Installation  
 Figure 402

**DET. B  
(RH SIDE)**


TORQUE : 5.7 - 7.3 N.m (50 -65 Lb.in)

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TASK 21-31-05-400-801-A

EFFECTIVITY: ALL

3. PRESSURE REGULATOR VALVE - INSTALLATION

A. General

(1) This task gives the procedures to install the pressure regulator valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
IPC 21-51-00	COOLING PACK SYSTEM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Left side of the wing-to-fuselage fairing
191	191FR	Right side of the wing-to-fuselage fairing
191	191ML	Left side of the wing-to-fuselage fairing
191	191NR	Right side of the wing-to-fuselage fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Lint-free cloth	To clean the outlet duct flange (if necessary)	AR

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Fed. Spec. TT-I-735	Isopropyl alcohol	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Strip	IPC 21-51-00	1/side (if necessary)



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## H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	External bottom surface of center fuselage III, inside the wing-to-fuselage fairing

## I. Installation (Figure 402)

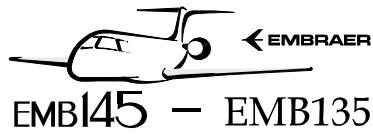
## SUBTASK 420-002-A

- (1) Remove the caps from the hose and tube.
- (2) Put the pressure regulator valve (1) in the installation position.
- (3) Install the screws (2) and washers (3).
- (4) Connect the tube (4) and hose (5) in the pressure regulator valve (1). Tighten the tube and hose to the torque shown in (Figure 402).

## J. Follow-on (Figure 401)

## SUBTASK 842-002-A

- (1) If necessary, replace the strip (2) of the outlet duct (8) as follows:
  - (a) Remove the old strip (2) from the outlet duct (8). For this, use a plastic spatula.
  - (b) Clean the surface of the flange of the outlet duct (8) with a cloth soaked with isopropyl alcohol.
  - (c) Dry the flange of the outlet duct (8) with a clean and dry cloth.
  - (d) Install a new strip (2) on the flange of the outlet duct (8).
- (2) Put the outlet duct (8) on the flange of the dual heat exchanger (1) and install the bolts (4) and washers (3) (6 positions). Get access through the outlet duct (8) inner side.
- (3) Put the outlet grate (6) (access panels 191ML and 191NR) (AMM MPP 06-41-01/100) in its installation position on the forward wing-to-fuselage fairing.
- (4) Connect the bellows (9) to the outlet duct (8) and attach it with the clamp (7).
- (5) Attach the outlet grate (6) to the forward wing-to-fuselage fairing with the screws (5) (10 positions).
- (6) Install access panel(s) 191EL and/or 191FR (AMM MPP 06-41-01/100), as applicable.
- (7) On the overhead circuit breaker panel, remove the DO-NOT-CLOSE tags from the applicable circuit breakers shown below and close them:
  - PACK 1 (Location tip: DC BUS 1 / AIR COND/PNEU / PACK 1).
  - PACK 2 (Location tip: DC BUS 2 / AIR COND/PNEU / PACK 2).
  - EBV 1 (Location tip: ESSENTIAL DC BUS 1 / AIR COND/PNEU / EBV 1).
  - EBV 2 (Location tip: ESSENTIAL DC BUS 2 / AIR COND/PNEU / EBV 2).



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- APU BLEED (Location tip: ESSENTIAL DC BUS 1 / AIR COND/PNEU / APU BLEED).