



AIRCRAFT MAINTENANCE MANUAL

CHARGING VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-135

1. General

- A. This section gives the procedures to remove/install the charging valve.
- 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
35-10-08-000-801-A	CHARGING VALVE - REMOVAL	ACFT MODEL(S) EMB-135
35-10-08-400-801-A	CHARGING VALVE - INSTALLATION	ACFT MODEL(S) EMB-135



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TASK 35-10-08-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

2. CHARGING VALVE - REMOVAL

A. General

- (1) This task gives the procedure to remove the charging valve.
- (2) The charging valve is installed on the oxygen servicing panel, on the right side of the aircraft nose section.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM TASK 25-26-02-000-802-A/400	-
AMM TASK 35-10-00-910-801-A/200	-
AMM TASK 35-10-00-910-803-A/200	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
124	124AR	Right side of the aircraft nose section
224	224LZ	Cockpit
224	224QZ	Cockpit
232	-	Closeout panel

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Commercially available	Plastic caps	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Right side of the aircraft nose section



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I. Preparation

SUBTASK 841-009-B

- (1) Obey the safety precautions (AMM TASK 35-10-00-910-801-A/200) and general instructions (AMM TASK 35-10-00-910-803-A/200).
- (2) Open access door 224LZ ([AMM MPP 06-41-03/100](#)). Refer to [Figure 401](#).

SUBTASK 841-010-A

EFFECTIVITY: AIRCRAFT FOR 16 PASSENGERS

- (3) Obey the safety precautions (AMM TASK 35-10-00-910-801-A/200) and general instructions (AMM TASK 35-10-00-910-803-A/200).
- (4) Remove access panel 224QZ ([AMM MPP 06-41-03/100](#)). Refer to [Figure 402](#).
- (5) Remove the closeout panel (AMM TASK 25-26-02-000-802-A/400).
- (6) Close the cylinder pressure regulators.

J. Removal ([Figure 401](#)) ([Figure 402](#))

SUBTASK 020-009-B

- (1) Refer to [Figure 401](#).
- (2) Cut the lockwire and close the cylinder pressure-regulator.
- (3) Cut the lockwire and disconnect the capillary line (which supplies the pressure transducer with the cylinder pressure) from the cylinder pressure-regulator.
NOTE: A small quantity of oxygen can flow out when you disconnect the capillary line.
- (4) Open access door (7) 124AR (AMM MPP 06-41-01/100).
- (5) Disconnect the charging tubing connection (1).
- (6) Disconnect the pressure gauge tubing connection (15).
- (7) Remove the screws (6) and washers (5) from the oxygen servicing panel (11).
- (8) Remove the oxygen servicing panel (11) together with the charging valve (8) and pressure gauge (12).
- (9) Disconnect the charging valve connection (14).
- (10) Remove the nuts (2), washer (3), and screw (10) from the charging valve (4).
- (11) Remove the charging valve (4) from the oxygen servicing panel (11).
- (12) Install plastic caps to the open connections.

SUBTASK 020-010-A

EFFECTIVITY: AIRCRAFT FOR 16 PASSENGERS

- (13) Refer to [Figure 402](#).



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- (14) Cut the lockwire and disconnect the capillary line (which supplies the pressure transducer with the cylinder pressure) from the cylinder pressure-regulator.

NOTE: A small quantity of oxygen can flow out when you disconnect the capillary line.

- (15) Open access door 124AR (AMM MPP 06-41-01/100).

- (16) Disconnect the charging tubing connections (12) and (13).

- (17) Disconnect the pressure gauge tubing connections (14) and (15).

- (18) Remove the screws (5) and washers (6) from the oxygen servicing panel (7).

- (19) Remove the oxygen servicing panel (7) with the charging valve (2) and pressure gauge (8).

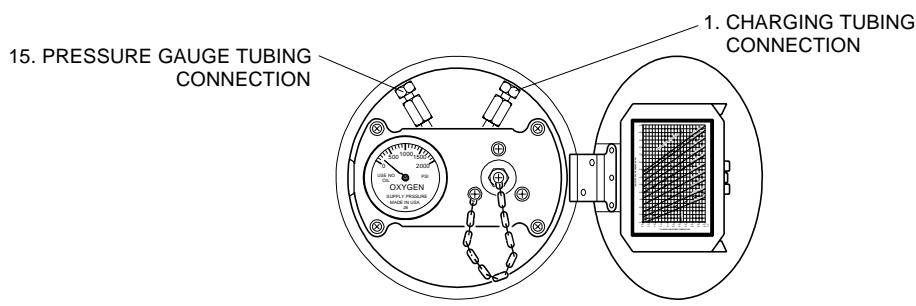
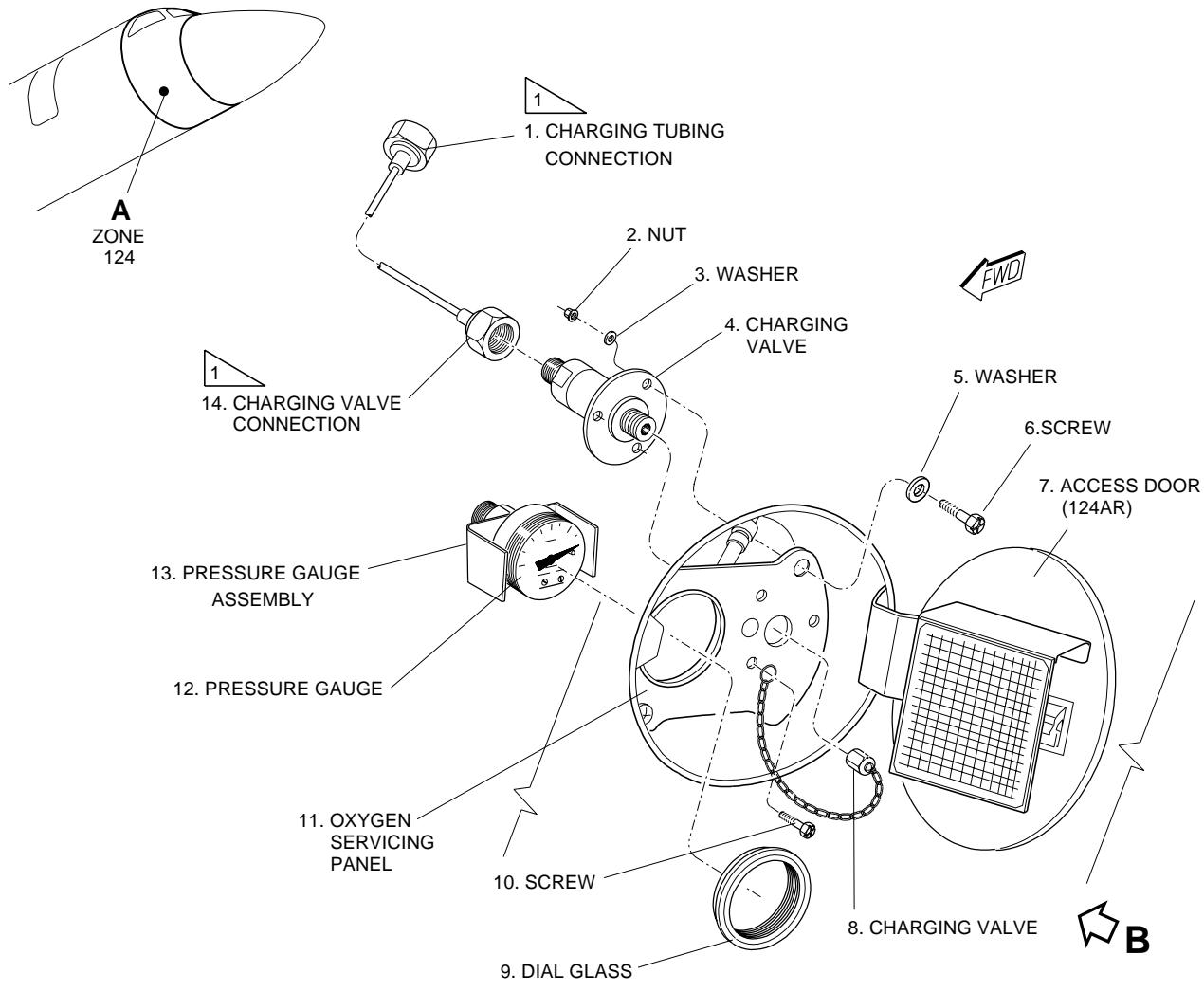
- (20) Disconnect the charging valve connection (11).

- (21) Remove the nuts (10), washers (9), and screws (3) from the charging valve (2).

- (22) Remove the charging valve (2) from the oxygen servicing panel (7).

- (23) Install plastic caps to the open connections.

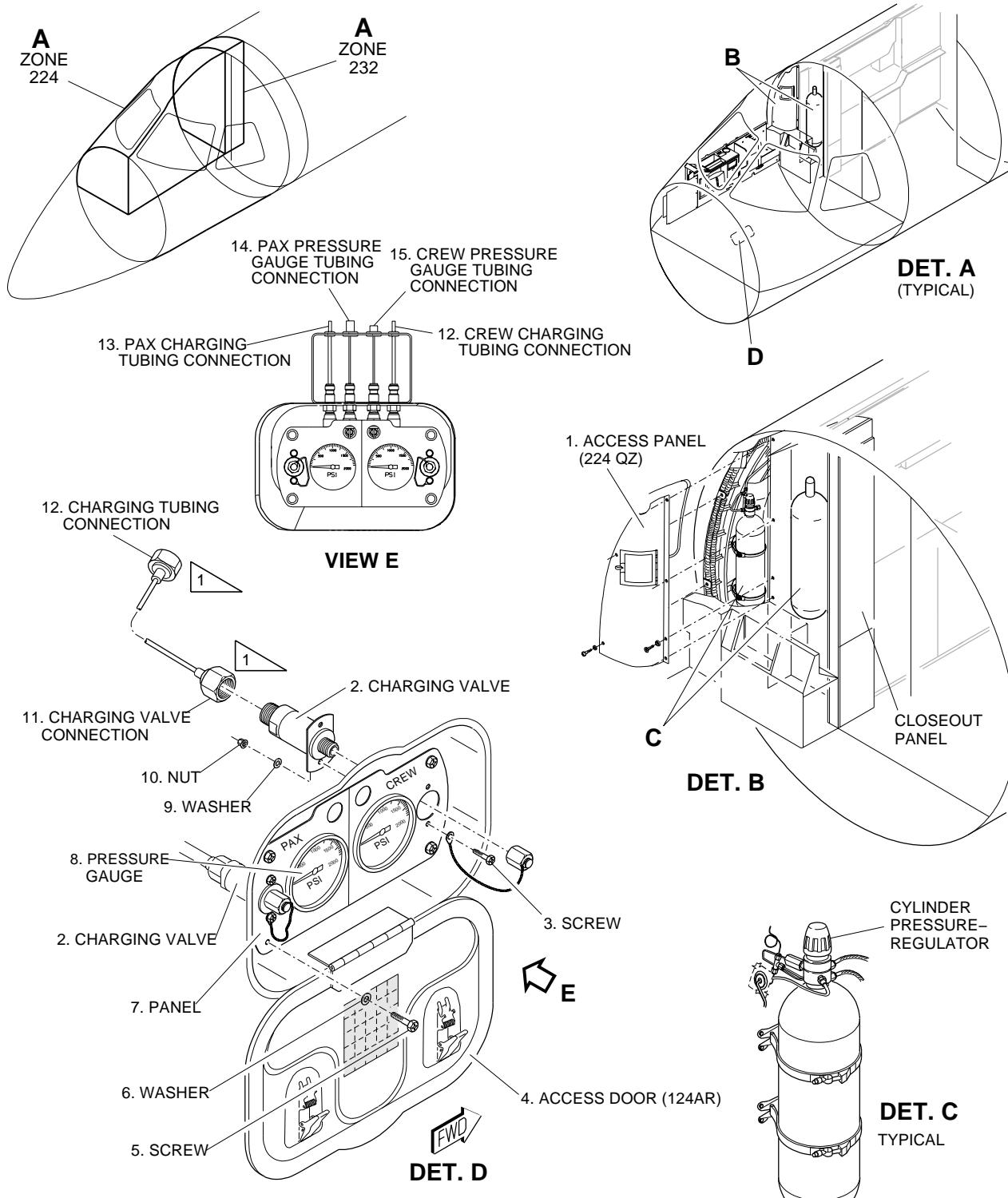
EFFECTIVITY: ACFT MODEL(S) EMB-135
Charging Valve - Removal/Installation
Figure 401

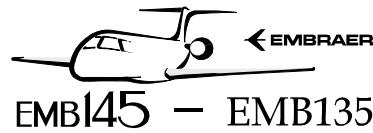


1 TORQUE: 8.5 – 11.3 N.m (75 – 100 lb.in.)

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EFFECTIVITY: AIRCRAFT FOR 16 PASSENGERS
Charging Valve - Removal/Installation
Figure 402





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TASK 35-10-08-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

3. CHARGING VALVE - INSTALLATION

A. General

- (1) This task gives the procedure to install the charging valve.
- (2) The charging valve is installed on the oxygen servicing panel, on the right side of the aircraft nose section.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM TASK 12-14-00-600-801-A/300	-
AMM TASK 25-26-02-400-802-A/400	-
AMM TASK 35-10-00-910-801-A/200	-
AMM TASK 35-10-00-910-803-A/200	-
AMM TASK 35-10-00-910-805-A/200	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
124	124AR	Right side of the aircraft nose section
224	224LZ	Cockpit
224	224QZ	Cockpit
232	-	Closeout panel

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS20995C20	Lockwire	AR

G. Expandable Parts

Not Applicable



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Right side of the aircraft nose section

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-009-B

- (1) Obey the safety precautions (AMM TASK 35-10-00-910-801-A/200) and general instructions (AMM TASK 35-10-00-910-803-A/200).

- (2) Remove the plastic caps from the connections. Refer to (Figure 401).

- (3) Put the charging valve (4) on the oxygen servicing panel (11).

- (4) Install the screws (10), washer (3), and nuts (2).

NOTE: Refer to Table 201 of the AMM TASK 35-10-00-910-805-A/200 for the torque ranges.

- (5) Connect the charging valve connection (14) to the charging valve (4).

- (6) Put the oxygen servicing panel (11) in position and install the washers (5) and screws (6).

- (7) Connect the pressure-gauge tubing connection (15).

- (8) Connect the charging tubing connection (1).

- (9) Connect the capillary line (which supplies the pressure transducer with the cylinder pressure regulator) to the cylinder pressure regulator and safety it.

- (10) Open the cylinder pressure-regulator and safety it.

SUBTASK 420-010-A

EFFECTIVITY: AIRCRAFT FOR 16 PASSENGERS

- (11) Obey the safety precautions (AMM TASK 35-10-00-910-801-A/200) and general instructions (AMM TASK 35-10-00-910-803-A/200).

- (12) Remove the plastic caps from the connections. Refer to (Figure 402).

- (13) Put the charging valve (2) on the oxygen servicing panel (7).

- (14) Install the screws (3), washers (9), and nuts (10).

NOTE: Refer to Table 201 of the AMM TASK 35-10-00-910-805-A/200 for the torque ranges.

- (15) Connect the charging valve connection (11) to the charging valve (2).

- (16) Put the oxygen servicing panel (7) in position and install the washers (6) and screws (5).

- (17) Connect the pressure-gauge tubing connections (14) and (15).

- (18) Connect the charging tubing connections (12) and (13).
- (19) Connect the capillary line (which supplies the pressure transducer with the cylinder pressure regulator) to the cylinder pressure regulator and safety it.

J. Follow-on

SUBTASK 842-009-B

- (1) Refer to (Figure 401).
- (2) Do a check for leaks at the fittings you worked on (AMM TASK 35-10-00-910-805-A/200).
- (3) Close access door 224LZ ([AMM MPP 06-41-03/100](#)).
- (4) Close access door 124AR (AMM MPP 06-41-01/100).

SUBTASK 842-010-A

EFFECTIVITY: AIRCRAFT FOR 16 PASSENGERS

- (5) Refer to (Figure 402).
- (6) Open the cylinder pressure regulators.
- (7) Do a check for leaks at the fittings you worked on (AMM TASK 35-10-00-910-805-A/200).
- (8) Install access panel 224QZ ([AMM MPP 06-41-03/100](#)).
- (9) Check the oxygen system pressure. If necessary, fill it (AMM TASK 12-14-00-600-801-A/300).
- (10) Close access door 124AR (AMM MPP 06-41-01/100).
- (11) Install the closeout panel (AMM TASK 25-26-02-400-802-A/400).

