

CHECK VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove and install the check valves of the brake system.
- B. This procedure is applicable to the two check valves.
- C. One check valve is installed in the LH wing stub and the other is installed in the RH wing stub.
- D. 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
32-41-09-000-801-A	CHECK VALVE - REMOVAL	ALL
32-41-09-400-801-A	CHECK VALVE - INSTALLATION	ALL

TASK 32-41-09-000-801-A

EFFECTIVITY: ALL

2. CHECK VALVE - REMOVAL

A. General

(1) This procedure gives the instructions to remove the check valve.

B. References

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

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing - LH
192	192BR	Center lower fairing - RH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the Hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the Eyes	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing stub

I. Preparation

SUBTASK 841-002-A

- (1) On the Circuit Breaker Panel, open the ELEC PUMP 1 (outboard) and the ELEC PUMP 2 (inboard) circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (2) Control the rudder to the left and to the right, until the pressure of the hydraulic system shows zero PSI on the EICAS.
- (3) Remove access panel 192AL (LH) or 192BR (RH) (AMM MPP 06-41-01/100).

- (4) Identify the check valve to be removed.

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

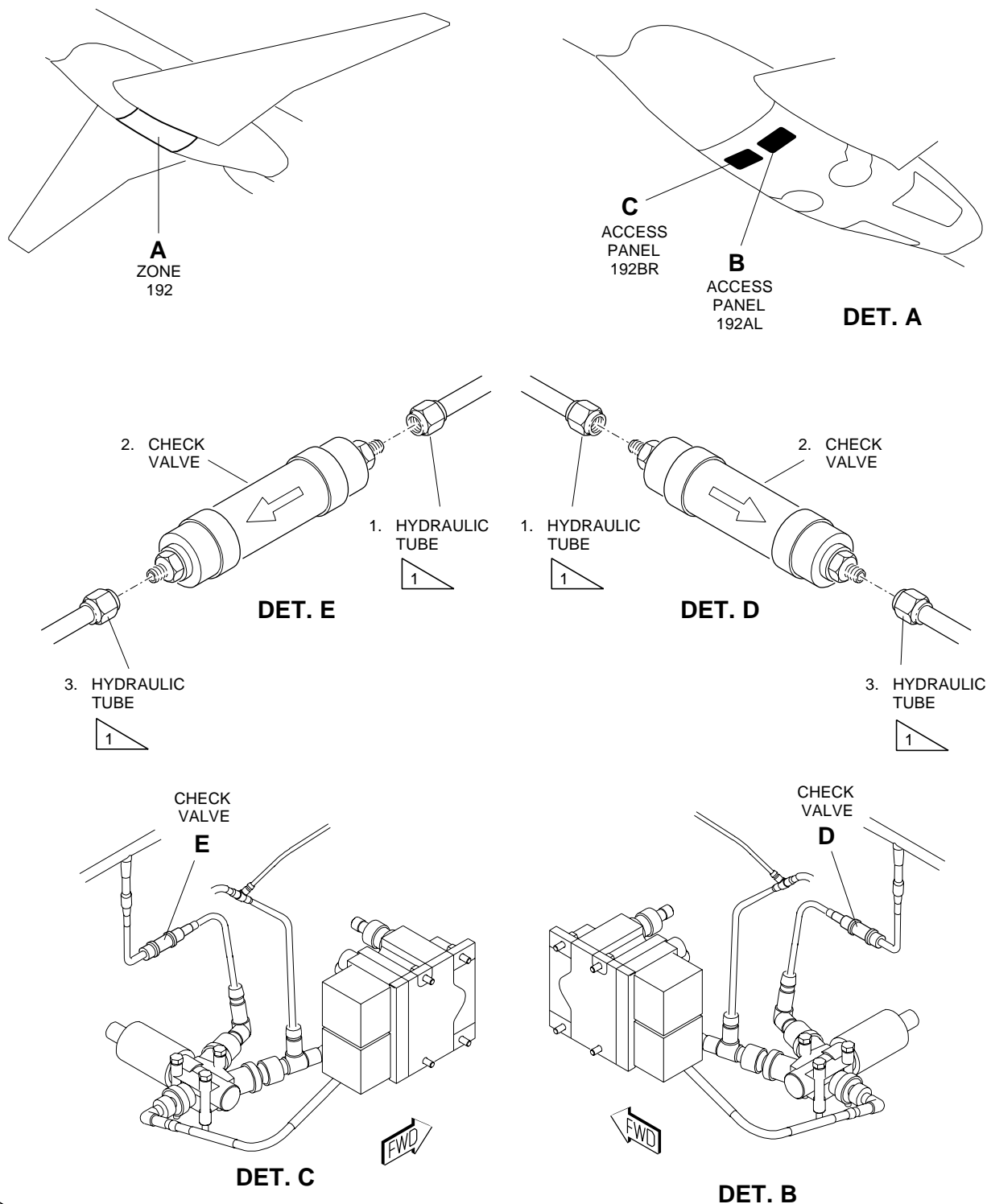
SUBTASK 020-002-A

- (1) Disconnect the hydraulic tubes (1) and (3).
- (2) Remove the check valve (2).

EFFECTIVITY: EMB-145ER/EP/EU/MP AND EMB-135ER MODELS

Check Valve - Removal/Installation

Figure 401



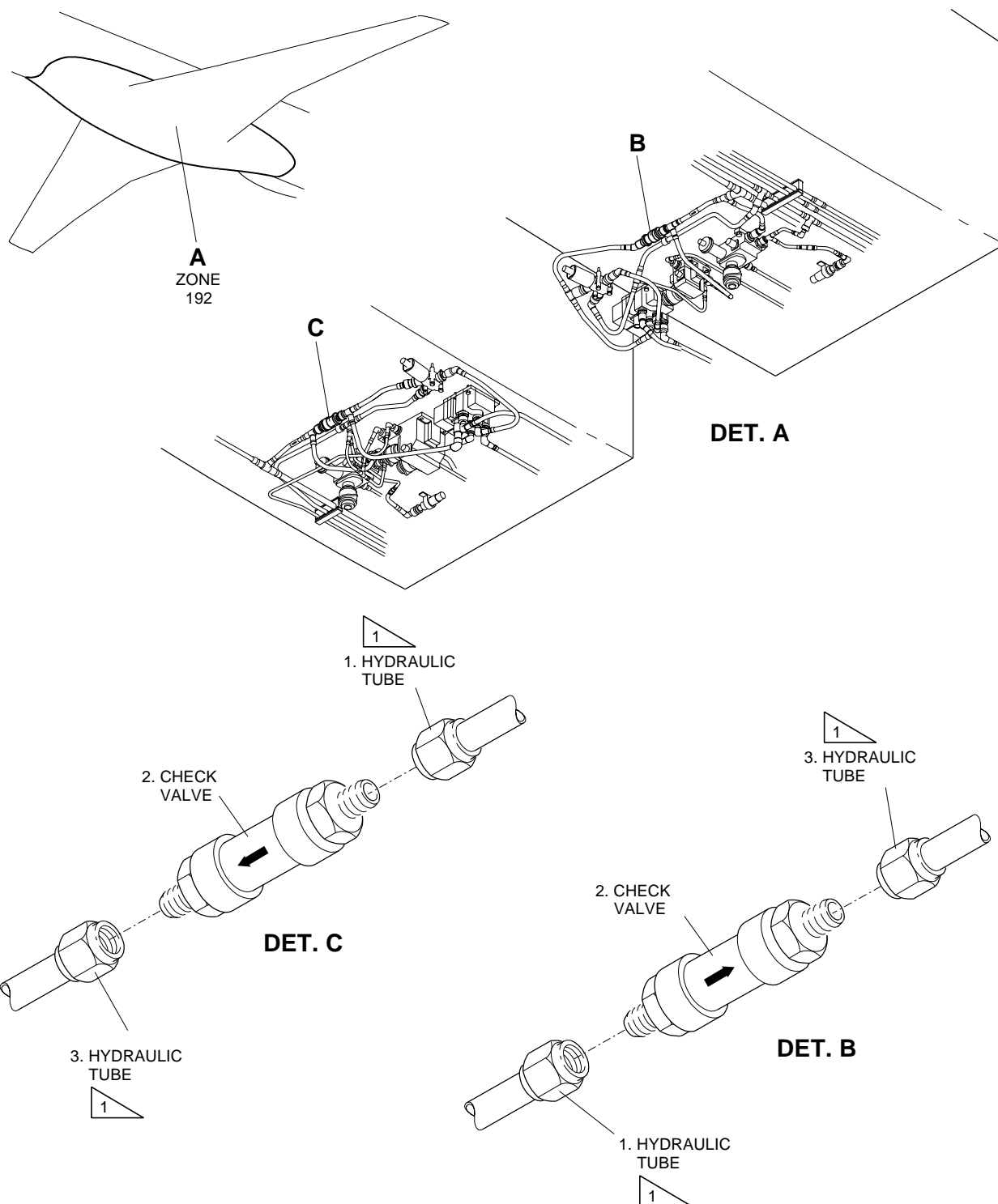
1 TORQUE: 17.2 – 19 N.m (152 – 168 lb.in)

EM145AMM320130B.DGN

EFFECTIVITY: EMB-145LR/LU AND EMB-135LR MODELS

Check Valve - Removal/Installation

Figure 402



1 TORQUE: 17.2 – 19 N.m (152 – 168 lb.in)

EM145AMM320301B.DGN

TASK 32-41-09-400-801-A

EFFECTIVITY: ALL

3. CHECK VALVE - INSTALLATION

A. General

(1) This procedure gives the instructions to install the check valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 29-10-00-860-803-A/200	HYDRAULIC SYSTEM - BLEED OF AIR

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing - LH
192	192BR	Center lower fairing - RH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the Hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the Eyes	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing stub

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

- (1) Put the check valve (2) in its installation position between the hydraulic tubes (1) and (3).

NOTE: Make sure that the arrow marked in the valve body stays in a position where you can see it and that it is pointed to the return line.

- (2) Connect the hydraulic tubes (1) and (3), and torque them as given in the related figure. Refer to (Figure 401) or (Figure 402).

J. Follow-on

SUBTASK 842-002-A

- (1) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations (Section 6) of the Maintenance Review Board Report (MRB).

- (2) Install access panel 192AL (LH) or panel 192BR (RH) (AMM MPP 06-41-01/100).
- (3) On the Circuit Breaker Panel, close the ELEC PUMP 1 (to outbd) and the ELEC PUMP 2 (to inbd) circuit breakers and remove the DO-NOT-CLOSE tags from them.
- (4) Do a check on the hydraulic connections of the check valve for leaks.
- (5) Bleed the hydraulic line ([AMM TASK 29-10-00-860-803-A/200](#)).

