



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

CASE DRAIN CHECK VALVE (EDP EMDP) - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the case-drain check valves of the EDP (Engine-Driven Pump) and the EMDP (Electric-Motor-Driven Pump).
- B. The procedures for removal/installation of the case-drain check valves (EDP/EMDP) of system 1 and system 2 are equivalent.
- C. You can get access to the case-drain check valves of system 1 through access panel 193BL (AMM MPP 06-41-01/100).
- D. You can get access to the case-drain check valves of system 2 through access panel 193CR (AMM MPP 06-41-01/100).
- E. 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
29-10-15-000-801-A	CASE-DRAIN CHECK VALVES (EDP/ EMDP) - REMOVAL	ALL
29-10-15-400-801-A	CASE-DRAIN CHECK VALVES (EDP/ EMDP) - INSTALLATION	ALL



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TASK 29-10-15-000-801-A

EFFECTIVITY: ALL

2. CASE-DRAIN CHECK VALVES (EDP/EMDP) - REMOVAL

A. General

(1) This task gives the procedures to remove the case-drain check valves (EDP/EMDP).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193BL	Hydraulic compartment of system 1
193	193CR	Hydraulic compartment of system 2

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
Commercially available	Drip Pan	To collect the hydraulic fluid when you remove the case-drain check valves (EDP/EMDP)	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Hydraulic compartment of system 1 and system 2



I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the ELEC PUMP 1 and (or) ELEC PUMP 2 circuit breaker(s) and attach a DO-NOT-CLOSE tag to it (them).
- (2) Depressurize the related hydraulic system ([AMM TASK 29-10-00-860-802-A/200](#)).
- (3) Remove access panels 193BL and (or) 193CR (AMM MPP 06-41-01/100).

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

SUBTASK 020-002-A

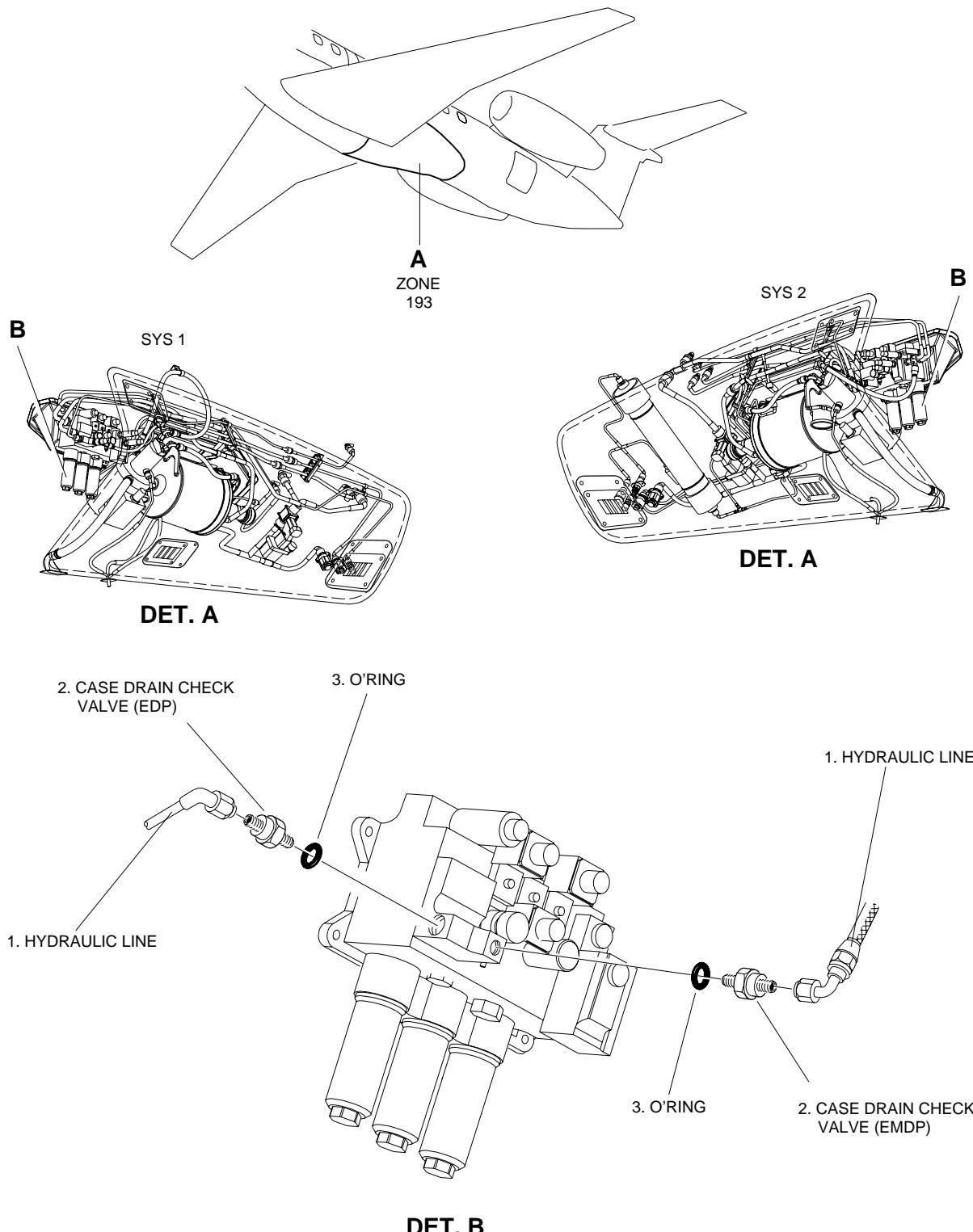
WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE GOGGLES AND RUBBER GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL HELP.

- (1) Disconnect the hydraulic line (1).
- (2) Remove the case-drain check valve (2) with the related O-ring (3).
- (3) Discard the O-ring (3) removed in step (2).

EFFECTIVITY: ALL

Case-Drain Check Valves (EDP/EMDP) - Removal/Installation

Figure 401





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TASK 29-10-15-400-801-A

EFFECTIVITY: ALL

3. CASE-DRAIN CHECK VALVES (EDP/EMDP) - INSTALLATION

A. General

(1) This task gives the procedures to install the case-drain check valves (EDP/EMDP).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-801-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS
AMM TASK 29-10-00-860-803-A/200	HYDRAULIC SYSTEM - BLEED OF AIR
IPC 29-10-15	DRAIN CHECK VALVES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193BL	Hydraulic compartment of system 1
193	193CR	Hydraulic compartment of system 2

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. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 29-10-15	2/LRU

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Hydraulic compartment of system 1 and system 2



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I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the case-drain check valve (2) with the related new O-ring (3).
- (2) Connect the hydraulic line (1).

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the ELEC PUMP 1 and (or) ELEC PUMP 2 circuit breaker(s) and remove the DO-NOT-CLOSE tag from it (them).
- (2) Pressurize the related hydraulic system ([AMM TASK 29-10-00-860-801-A/200](#)) and make sure that there are no leaks in the case-drain check valves (EDP/EMDP).
- (3) Do the bleed of air from the hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (4) Install access panels 193BL and (or) 193CR (AMM MPP 06-41-01/100).