

MANIFOLD ASSEMBLY - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the manifold assembly.
- B. You can get access to the manifold assembly of system 1 through access panel 193BL AMM MPP 06-41-01/100.
- C. You can get access to the manifold assembly of system 2 through access panel 193CR AMM MPP 06-41-01/100.
- D. The pressure transmitter, the EDP, and the EMDP pressure switches must be removed from the old manifold assembly and installed to the new manifold assembly.
- 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
29-10-07-000-801-A	MANIFOLD ASSEMBLY - REMOVAL	ALL
29-10-07-400-801-A	MANIFOLD ASSEMBLY - INSTALLATION	ALL

TASK 29-10-07-000-801-A

EFFECTIVITY: ALL

2. MANIFOLD ASSEMBLY - REMOVAL

A. General

(1) This task gives the procedure to remove the manifold assembly.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
AMM TASK 29-10-19-000-801-A/400	EDP PRESSURE SWITCH - REMOVAL
AMM TASK 29-30-02-000-801-A/400	PRESSURE TRANSMITTER - REMOVAL
AMM TASK 29-30-04-000-801-A/400	EMDP PRESSURE SWITCH - REMOVAL

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 manifold assembly	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Hydraulic system compartment
1	Helps the other technician	Hydraulic system compartment

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 panel 193BL and (or) 193CR AMM MPP 06-41-01/100.
- (4) Remove the EDP pressure switch ([AMM TASK 29-10-19-000-801-A/400](#)).
- (5) Remove the pressure transmitter ([AMM TASK 29-30-02-000-801-A/400](#)).
- (6) Remove the EMDP pressure switch ([AMM TASK 29-30-04-000-801-A/400](#)).

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 lines (1).
- (2) Remove the bolts (2) and washers (3).

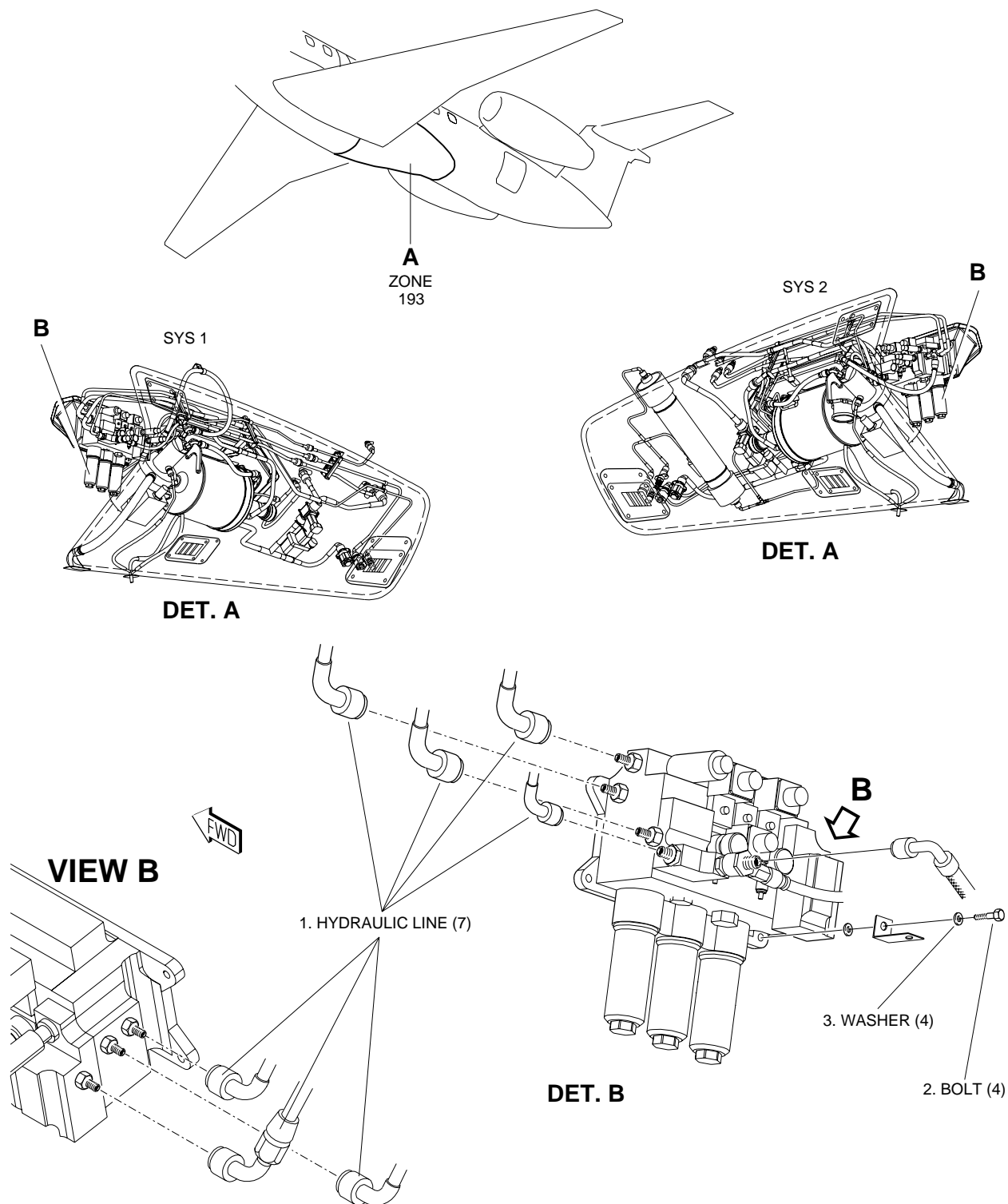
NOTE: When you remove the lower bolt (2), the support of EMDP wiring will be removed together.

- (3) Remove the manifold assembly (4).

EFFECTIVITY: ALL

Manifold Assembly - Removal/Installation

Figure 401

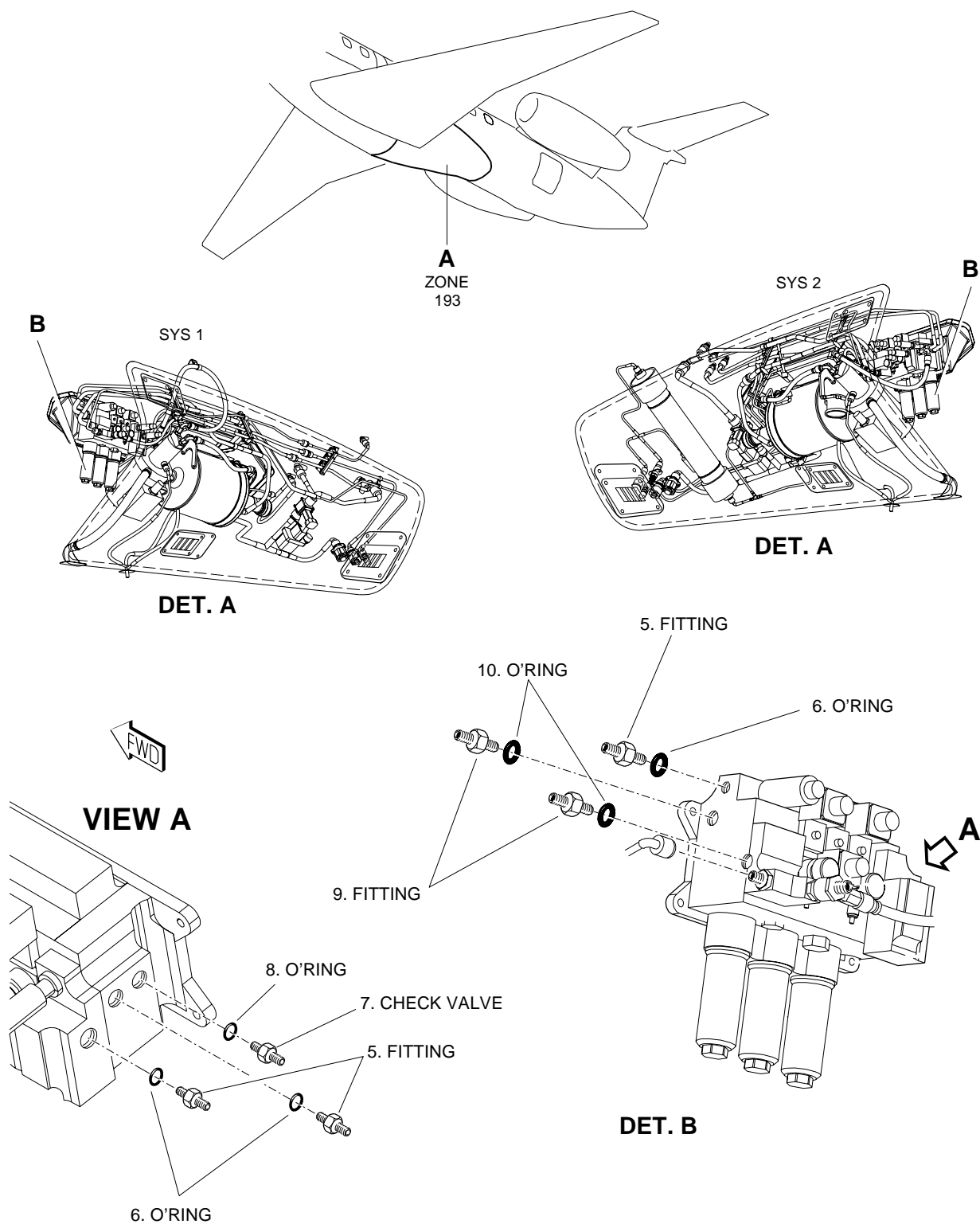


145AMM290062.MCE A

EFFECTIVITY: ALL

Manifold Assembly - Removal/Installation

Figure 402



EM145AMM290063B.DGN

TASK 29-10-07-400-801-A

EFFECTIVITY: ALL

3. MANIFOLD ASSEMBLY - INSTALLATION

A. General

(1) This task gives the procedure to install the manifold assembly.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 12-13-01-600-801-A/300	HYDRAULIC SYSTEM RESERVOIR - FLUID LEVEL CHECK
AMM TASK 12-13-01-600-802-A/300	HYDRAULIC SYSTEM RESERVOIR - REPLENISHMENT
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
AMM TASK 29-10-08-400-801-A/400	FILTERING ELEMENT - INSTALLATION
AMM TASK 29-10-19-400-801-A/400	EDP PRESSURE SWITCH - INSTALLATION
AMM TASK 29-30-02-400-801-A/400	PRESSURE TRANSMITTER - INSTALLATION
AMM TASK 29-30-04-400-801-A/400	EMDP PRESSURE SWITCH - INSTALLATION
IPC 29-10-07	MANIFOLD
IPC 29-10-16	CHECK VALVE OF PRESSURE EXTERNAL COUPLING

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 manifold	1

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 29-10-07	3/LRU
O-ring	IPC 29-10-07	2/LRU
O-ring	IPC 29-10-16	1/LRU

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Hydraulic system compartment
1	Helps the other technician	Hydraulic system compartment

I. Preparation (Figure 402)

SUBTASK 841-003-A

- (1) Remove the check valve (7) with the related O-ring (8) from the used manifold assembly.
- (2) Remove the fittings (5) with the related O-rings (6) from the used manifold assembly.
- (3) Remove the fittings (9) with the related O-rings (10) from the used manifold assembly.
- (4) Discard the O-rings (6), (8) and (10).
- (5) Install the new O-ring (8) to the check valve (7).
- (6) Install the new O-rings (6) to the fittings (5).
- (7) Install the new O-rings (10) to the fittings (9).
- (8) Install the check valve (7) to the manifold assembly.
- (9) Install the fittings (5) to the manifold assembly.
- (10) Install the fittings (9) to the manifold assembly.
- (11) Make sure that all filters are equipped with their filtering elements ([AMM TASK 29-10-08-400-801-A/400](#)).

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the manifold assembly (4) on its support.
- (2) Install the washers (3) and bolts (2).
NOTE: The support of the EMDP wiring must be installed together with the lower bolt (2).
- (3) Connect the hydraulic lines (1).

K. Follow-on

SUBTASK 842-002-A

- (1) Install the EDP pressure switch ([AMM TASK 29-10-19-400-801-A/400](#)).
- (2) Install the pressure transmitter ([AMM TASK 29-30-02-400-801-A/400](#)).
- (3) Install the EMDP pressure switch ([AMM TASK 29-30-04-400-801-A/400](#)).
- (4) 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).
- (5) Check the level of hydraulic reservoir ([AMM TASK 12-13-01-600-801-A/300](#)) and, if necessary, fill it ([AMM TASK 12-13-01-600-802-A/300](#)).
- (6) Pressurize the related hydraulic system ([AMM TASK 29-10-00-860-801-A/200](#)) and inspect the manifold assembly for leakage.
- (7) Do the bleed of air from the hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (8) Install access panel 193BL and (or) 193CR AMM MPP 06-41-01/100.