

RESERVOIR REFILL CHECK VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the reservoir-refill check valves.
- B. This section gives the procedures to deactivate/reactivate the reservoir-refill check valves, when the aircraft is in service.
- C. A reservoir-refill check valve is installed in the return line of system 1 and system 2. The removal/installation procedures are equivalent for the two check valves.
- D. You can get access to the reservoir-refill check valve of system 1 through access panel 193BL (AMM MPP 06-41-01/100).
- E. You can get access to the reservoir-refill check valve of system 2 through access panel 193CR (AMM MPP 06-41-01/100).
- F. 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
29-10-14-000-801-A	RESERVOIR-REFILL CHECK VALVE - REMOVAL	ALL
29-10-14-400-801-A	RESERVOIR-REFILL CHECK VALVE - INSTALLATION	ALL
29-10-14-040-801-A	RESERVOIR-REFILL CHECK VALVE - DEACTIVATION PROCEDURES	ALL
29-10-14-440-801-A	RESERVOIR-REFILL CHECK VALVE - REACTIVATION PROCEDURES	ALL

TASK 29-10-14-000-801-A

EFFECTIVITY: ALL

2. RESERVOIR-REFILL CHECK VALVE - REMOVAL

A. General

(1) This task gives the procedures to remove the reservoir-refill check valves.

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 System 1 compartment
193	193CR	Hydraulic System 2 compartment

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	Hydraulic System 1 and/or Hydraulic System 2 compartments

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

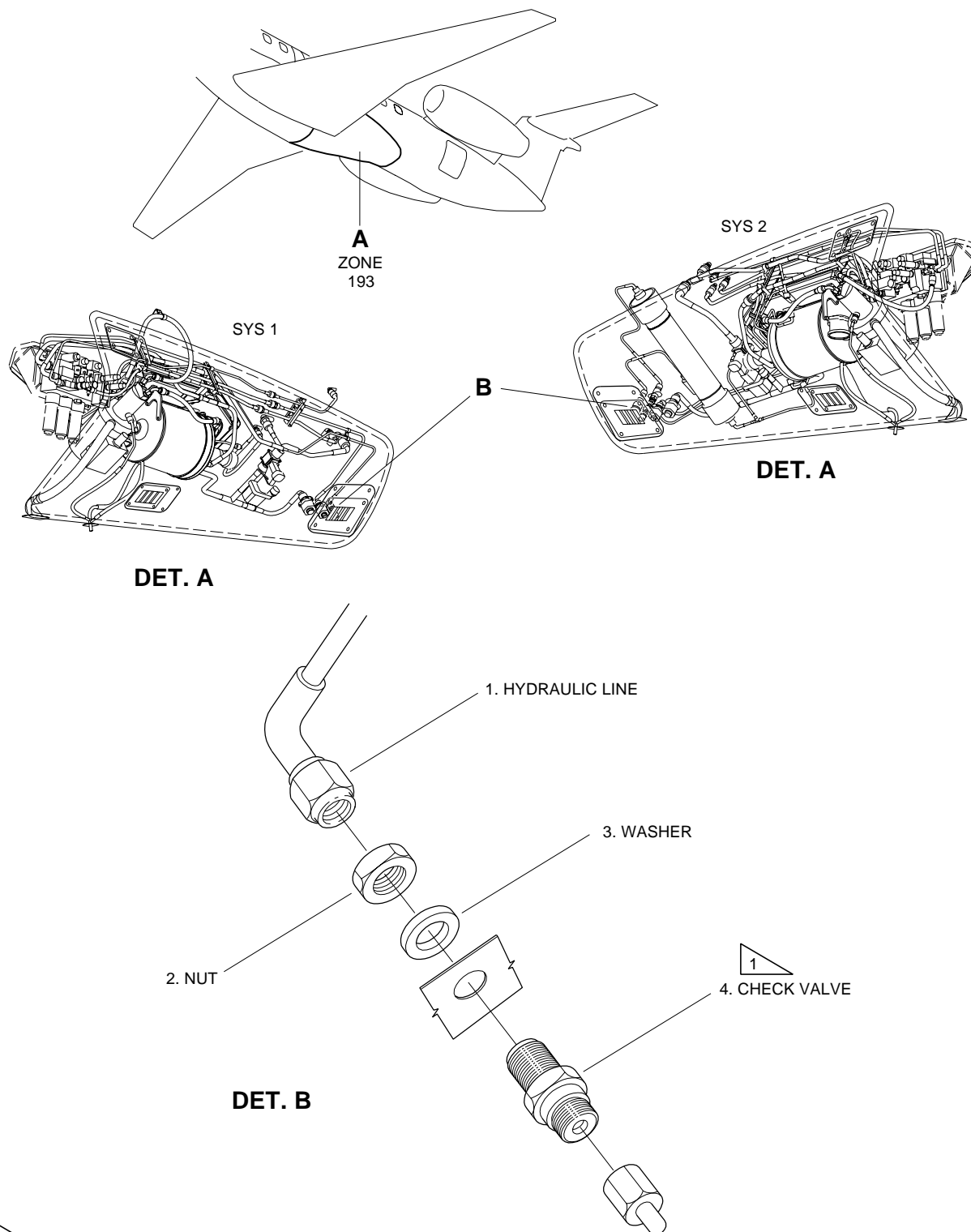
WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE GOGGLES AND RUBBER GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL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

- (1) Disconnect the hydraulic line (1).
- (2) Remove the nut (2) and washer (3).
- (3) Remove the reservoir-refill check valve (4).

EFFECTIVITY: ALL

Reservoir-Refill Check Valve - Removal/Installation

Figure 401



1 TORQUE: 15.2 – 16.4 N.m (135 – 145 lb.in)

EM145AMM290067C.DGN

TASK 29-10-14-400-801-A
EFFECTIVITY: ALL

3. RESERVOIR-REFILL CHECK VALVE - INSTALLATION

A. General

(1) This task gives the procedures to install the reservoir-refill check valves.

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

C. Zones and Accesses

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

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	Hydraulic System 1 and/or Hydraulic System 2 compartments

I. Installation (Figure 401)

SUBTASK 420-002-A

(1) Put the reservoir-refill check valve (4) on the servicing panel.

- (2) Install the washer (3) and nut (2).
- (3) Connect the hydraulic line (1).
- (4) Torque the hydraulic line (1). Refer to (Figure 401).

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 reservoir-refill check valve.
- (3) Bleed the air from the hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (4) Install access panels 193BL and (or) 193CR back (AMM MPP 06-41-01/100).

TASK 29-10-14-040-801-A

EFFECTIVITY: ALL

4. RESERVOIR-REFILL CHECK VALVE - DEACTIVATION PROCEDURES

A. General

- (1) This task refers to item 29-10-14 - reservoir-refill check valves of the DDPM.
- (2) The airplane can be dispatched with the reservoir-refill check valves inoperative open provided the failed check valve is removed from the hydraulic system and the plumbing is plugged.
- (3) The airplane can be dispatched with the reservoir-refill check valves inoperative closed.

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
AMM TASK 29-10-14-000-801-A/400	RESERVOIR-REFILL CHECK VALVE - REMOVAL

C. Zones and Accesses

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

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS21913J4 or MS21913W4	Hydraulic Plug	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Hydraulic System 1 and/or Hydraulic System 2 compartments

I. Deactivation Procedures

SUBTASK 040-002-A

- (1) Remove the failed reservoir-refill check valve(s) as applicable ([AMM TASK 29-10-14-000-801-A/400](#)).
- (2) Plug the hydraulic line with plug MS21913J4 or MS21913W4. Torque the plug to 15.2 - 16.4 N.m (135 - 145 lb.in).
- (3) Attach a "CHECK VALVE REMOVED" placard to the affected plumbing.
- (4) Make an entry in the aircraft logbook to show that you did the Deactivation Procedure for the reservoir-refill check valve(s).

J. Follow-on

SUBTASK 842-003-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 plug.
- (3) Bleed the air from the related hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (4) Install access panels 193BL and (or) 193CR back (AMM MPP 06-41-01/100).

TASK 29-10-14-440-801-A
EFFECTIVITY: ALL

5. RESERVOIR-REFILL CHECK VALVE - REACTIVATION PROCEDURES

A. General

(1) This task refers to item 29-10-14 - reservoir-refill check valves of the DDPM.

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 29-10-14-400-801-A/400	RESERVOIR-REFILL CHECK VALVE - INSTALLATION

C. Zones and Accesses

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

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	Hydraulic System 1 and/or Hydraulic System 2 compartments

I. Preparation

SUBTASK 841-003-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).
- (4) Remove the protective plugs as applicable.

J. Reactivation Procedures

SUBTASK 420-003-A

- (1) Install a reservoir-refill check valve that you know that is in good condition as applicable ([AMM TASK 29-10-14-400-801-A/400](#)).
- (2) Make an entry in the aircraft technical logbook to show that you did the Reactivation Procedure for the reservoir-refill check valve.