

WATER COLLECTOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the water collectors of the cooling pack system.
- B. These procedures are applicable to the LH and RH water collectors.
- C. The LH water collector is installed on the LH side of the forward lower fairing.
- D. The RH water collector is installed on the RH side of the forward lower fairing.
- 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
21-51-05-000-801-A	WATER COLLECTOR - REMOVAL	ALL
21-51-05-400-801-A	WATER COLLECTOR - INSTALLATION	ALL

TASK 21-51-05-000-801-A

EFFECTIVITY: ALL

2. WATER COLLECTOR - REMOVAL

A. General

(1) This task gives the instructions to remove the water collector.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
SB145-21-0018	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	LH side of the forward lower fairing
191	191FR	RH side of the forward lower fairing

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	LH or RH side of the forward lower fairing

I. Preparation

SUBTASK 841-002-A

(1) On the Circuit Breaker Panel, open the PACK 1 and/or PACK 2 circuit breaker(s) and attach (a) DO-NOT-CLOSE tag(s) to it (them), as applicable.

(2) Remove access panel 191EL or 191FR (AMM MPP 06-41-01/100), as applicable.

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

SUBTASK 020-002-A

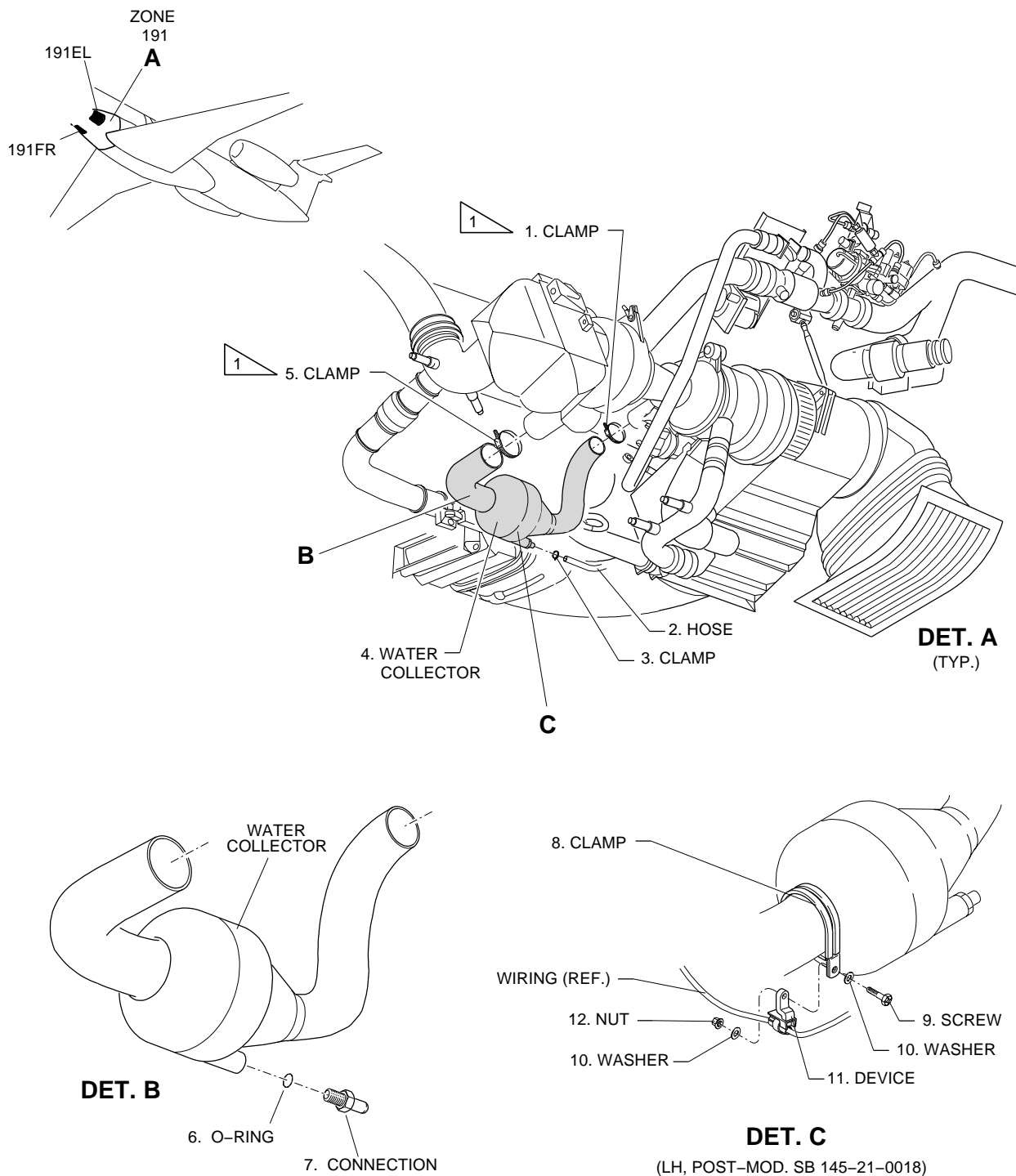
(1) Loosen the clamp (3), and disconnect the hose (2).

- (2) On aircraft POST-MOD. [SB145-21-0018](#), on the LH side, remove the screw (9), nut (12), and washers (10) to release the device (11) with the wiring (ref.) from the clamp (8). If necessary, remove and keep the clamp (8).
- (3) Loosen the clamps (1) and (5).
- (4) Remove the water collector (4).

EFFECTIVITY: ALL

Water Collector - Removal/Installation

Figure 401



1 TORQUE: 5.65 – 6.21 N.m (50 – 55 lb.in)

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TASK 21-51-05-400-801-A
EFFECTIVITY: ALL

3. WATER COLLECTOR - INSTALLATION

A. General

(1) This task gives the instructions to install the water collector.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 21-51-14/600	- INSPECTION/CHECK
AMM TASK 21-51-00-700-802-A/500	-
IPC 21-51-00	COOLING PACK SYSTEM
SB145-21-0018	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	LH side of the forward lower fairing
191	191FR	RH side of the forward lower fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench (Range 0-100 lb.in)	To tighten the clamps	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 21-51-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH side of the forward lower fairing

I. Preparation (Figure 401)

SUBTASK 841-003-A

- (1) Remove and keep the connection (7).
- (2) Remove and discard the old O-ring (6).
- (3) Install a new O-ring (6).
- (4) Install the connection (7).

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the clamps (1) and (5) on the tubes of the water collector (4).
- (2) Put the water collector (4) in its installation position and connect its tubes.
NOTE: Before installation, make sure that the duct flanges and clamps are in good conditions ([AMM MPP 21-51-14/600](#)). If any duct and/or clamp shows signs of damage, replace it (them) as applicable.
- (3) Use a torque wrench to torque the clamps (1) and (5) to 5.65 - 6.21 N.m (50 - 55 lb.in).
NOTE: When you install the clamps (1) and (5), pay attention to the correct position of the inner shield during the torque application, to not block the inner shield tip with the hex bolt head or with the convoluted spring.
- (4) After the initial torque is complete, use a torque wrench and apply a torque of 5.65 - 6.21 N.m (50 - 55 lb.in) to the clamps (1) and (5) again.
- (5) Put the clamp (3) on the hose (2).
- (6) Connect the hose (2) to the water collector (4).
- (7) Tighten the clamp (3).
- (8) On aircraft POST-MOD. [SB145-21-0018](#), on the LH side, reinstall the clamp (8) to the water collector, if applicable. Install the screw (9), nut (12), and washers (10) to hold the device (11) with the wiring (ref.) to the clamp (8).
- (9) On the Circuit Breaker Panel, close the PACK 1 and PACK 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (10) Install access panel 191EL or 191FR (AMM MPP 06-41-01/100), as applicable.
- (11) Do an operational test of the cooling pack system (AMM TASK 21-51-00-700-802-A/500).

NOTE: Let the cooling packs operate for 5 minutes.

WARNING: DO NOT TOUCH THE COOLING PACK SYSTEM DUCTS OR COMPONENTS IMMEDIATELY AFTER THE SYSTEM IS TURNED OFF. THE HIGH AIR TEMPERATURE CAN CAUSE INJURY TO YOU.

CAUTION: BE CAREFUL WHEN YOU HANDLE THE PACKS, VALVES, SENSING ELEMENTS, AND AIR CONDITIONING DUCTS. DO NOT LET OIL, GREASE OR RESIN GET ON THESE COMPONENTS.

- (12) After the operational test is complete, get access to the water collector again. Remove access panel 191EL or 191FR (AMM MPP 06-41-01/100), as applicable.
- (13) On the Circuit Breaker Panel, open the PACK 1 and PACK 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (14) Use a torque wrench and apply a torque of 5.65 - 6.21 N.m (50 - 55 lb.in) to the clamps (1) and (5) again.

K. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the PACK 1 and/or PACK 2 circuit breaker(s) and remove the DO-NOT-CLOSE tag(s) from it (them), as applicable.
- (2) Install access panel 191EL or 191FR (AMM MPP 06-41-01/100), as applicable.

