CHAPTER 21

AIR CONDITIONING

BOEING

737-600/700/800/900
TASK CARDS

CHAPTER 21
AIR CONDITIONING

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

21-EFFECTIVE PAGES

CHAPTER 21
AIR CONDITIONING

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
21-190-00-01	SYS (cont)							
D 8	Jun 15/2016							
D 9	Jun 15/2016							
D 10	Jun 15/2016							

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

21-EFFECTIVE PAGES

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		RECIRCULATION FAN HEPA FILTER(S)			**21-010-00-01**
DATE	TASK				RELATED CARD
	REPLACE				
TAIL NUMBER	WORK AREA	VERSION	THRESHOLD	REPEAT	APPLICABILITY
	FWD CARGO	**1.1**	**7500 FH**	**7500 FH**	AIRPLANE **ALL** ENGINE **ALL**
STATION	SKILL				
	AIRPL				
		ACCESS			ZONE
		121EW 122GW 821			**125 126**
		NOTE			

Replace the recirculation fan HEPA filter(s).

Note: Zone 126 is applicable to all 737NG aircraft. Zone 125 is applicable to 737-800/900 aircraft only.

ACCESS NOTE: Access panel 122GW is applicable to all 737NG aircraft. Access panel 121EW is applicable to 737-800/900 aircraft only.

A. References

Reference	Title
AMM 25-52-17-000-801	Forward Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
AMM 25-52-17-400-801	Forward Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)

B. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	
G50140	Gloves - Protective, Latex or Nitrile	

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
STD-1129	Coveralls - Tyvek/Saranex 23-p (Approved Cotton Substitute), No Pockets
STD-421	Goggles - Eye Protection
STD-739	Respirator

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-010-00-01

MECH | INSP

TASK 21-25-01-000-801

1. Recirculation Air Filter Removal

(Figure 1)

A. Prepare for the Removal

SUBTASK 21-25-01-860-003

(1) Put the L RECIRC FAN and the R RECIRC FAN switches, on the P5-10 panel, to the OFF position.

SUBTASK 21-25-01-865-001

(2) To prevent inadvertent recirculation fan operation during removal of the recirculation filter,

Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	7	C00911	A/C RECIRC FAN LEFT CABIN AIR
E	9	C01156	A/C RECIRC FAN LEFT CONT

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
E	2	C01023	A/C RECIRC FAN RIGHT CONT.
E	4	C00884	AC RECIRC FAN RIGHT CABIN AIR

SUBTASK 21-25-01-010-001

(3) Open the forward cargo compartment door.

SUBTASK 21-25-01-010-006

(4) Remove the left and right aft bulkhead liners in the forward cargo compartment. To remove the liners, do this task: Forward Cargo Compartment Aft Bulkhead Liner - Removal, AMM TASK 25-52-17-000-801.

SUBTASK 21-25-01-941-001

WARNING: PUT ON THE PERSONAL PROTECTIVE EQUIPMENT BEFORE YOU TOUCH THE FILTER. THE FILTER REMOVES SMALL PARTICLES (SMOKE, DUST, LINT, FIBERS, POLLEN) AND INFECTIOUS MATERIALS (BACTERIA, VIRUSES, MOLD SPORES, FUNGI) FROM THE AIR WHICH CAN CAUSE ILLNESSES AND INJURIES TO PERSONS.

(5) Before you touch the filter, put on the personal protective equipment listed below:

(a) coverall (approved cotton substitute), STD-1129

(b) eye protection goggles, STD-421

(c) respirator, STD-739

(d) protective gloves, G50140.

B. Recirculation Air Filter Removal

SUBTASK 21-25-01-020-011

(1) Remove the left recirculation air filter as follows:

(a) Remove the two screws [6] from the retainer [7] on the filter housing.

MECH | INSP

(b) Remove the retainer [7] from the filter housing.

WARNING: DO NOT LET THE FILTER TOUCH YOUR SKIN. DO NOT SHAKE OR HIT THE FILTER. DO NOT LET THE FILTER FALL. DO NOT USE COMPRESSED AIR TO CLEAN THE FILTER OR FILTER HOUSING. THIS CAN CAUSE THE INFECTIOUS MATERIAL TO BECOME AIRBORNE. DISCARD THE FILTER IN A PLASTIC DISPOSAL BAG. OBEY THESE INSTRUCTIONS TO PREVENT INJURIES TO PERSONNEL.

CAUTION: DO NOT LET THE RECIRCULATION FILTER TOUCH THE WIRE BUNDLE THAT IS IMMEDIATELY FORWARD OF THE FILTER. THE FORWARD AND AFT LOWER OUTBOARD CORNERS OF THE FILTER HAVE SHARP EDGES. THE SHARP EDGES CAN CUT THE INSULATION ON THE WIRE BUNDLE.

(c) Remove the recirculation air filter [3] from the filter housing [8].

WARNING: OBEY THE AIRLINE POLICY, LOCAL HEALTH DEPARTMENT, AND LAW ENFORCEMENT REGULATIONS WHEN YOU DISCARD THIS MATERIAL. OBEY THESE INSTRUCTIONS TO PREVENT INJURIES TO PERSONNEL.

(d) Put the filter in a disposable, plastic bag, G00624, and discard in accord with airline, local health, safety and regulatory procedures for disposal of material.

SUBTASK 21-25-01-020-012

(2) Remove the right recirculation air filter as follows:

(a) Release the quarter-turn fasteners [1] which attach the access panel [2] to the filter housing.

(b) Remove the access panel [2].

WARNING: DO NOT LET THE FILTER TOUCH YOUR SKIN. DO NOT SHAKE OR HIT THE FILTER. DO NOT LET THE FILTER FALL. DO NOT USE COMPRESSED AIR TO CLEAN THE FILTER OR FILTER HOUSING. THIS CAN CAUSE THE INFECTIOUS MATERIAL TO BECOME AIRBORNE. DISCARD THE FILTER IN A PLASTIC DISPOSAL BAG. OBEY THESE INSTRUCTIONS TO PREVENT INJURIES TO PERSONNEL.

(c) Remove the recirculation air filter [3] from the filter housing [4].

WARNING: OBEY THE AIRLINE POLICY, LOCAL HEALTH DEPARTMENT, AND LAW ENFORCEMENT REGULATIONS WHEN YOU DISCARD THIS MATERIAL. OBEY THESE INSTRUCTIONS TO PREVENT INJURIES TO PERSONNEL.

(d) Put the filter in a disposable, plastic bag, G00624, bag and discard in accord with airline, local health, safety and regulatory procedures for disposal of material.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-010-00-01

MECH | INSP

C. Post-Filter Removal Cleanup

SUBTASK 21-25-01-020-020

WARNING: DISCARD ALL PERSONAL PROTECTIVE EQUIPMENT AFTER YOU USE IT ONE TIME. DO NOT TRY TO CLEAN IT. DISCARD THE EQUIPMENT IN A PLASTIC DISPOSAL BAG. OBEY THESE INSTRUCTIONS TO PREVENT INJURIES TO PERSONNEL.

(1) Remove the personal protective equipment and put them in a disposable, plastic bag, G00624, and discard them in accord with airline, local health, safety and regulatory procedures for disposal of material.

SUBTASK 21-25-01-110-001

WARNING: CLEAN YOUR HANDS WITH SOAP AND FLUSH WITH HOT WATER. DIRTY HANDS WITH CONTAMINATION CAN CAUSE DISEASE AND ILLNESSES TO PERSONS.

(2) Clean your hands with soap and running hot water.

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-010-00-01

MECH | INSP

TASK 21-25-01-400-801

2. Recirculation Air Filter Installation

(Figure 1)

A. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Filter	21-25-01-01-465	AKS ALL

B. Recirculation Air Filter Installation

SUBTASK 21-25-01-420-007

(1) Install the left recirculation air filter as follows:

(a) Make sure there is no unwanted material or contamination in the filter housing [8] which could cause damage to the recirculation fan.

CAUTION: DO NOT LET THE RECIRCULATION FILTER TOUCH THE WIRE BUNDLE THAT IS IMMEDIATELY FORWARD OF THE FILTER. THE FORWARD AND AFT LOWER OUTBOARD CORNERS OF THE FILTER HAVE SHARP EDGES. THE SHARP EDGES CAN CUT THE INSULATION ON THE WIRE BUNDLE.

(b) Put the new recirculation air filter [3] in the filter housing [8].

(c) Do these checks of the spring clips:

1) Make sure that the spring clips apply pressure to keep the filter in position.

2) Make sure that all spring clips are installed and not damaged.

(d) Hold the retainer [7] in its position on the filter housing.

(e) Install the two screws [6] for the retainer [7] on the filter housing.

SUBTASK 21-25-01-420-008

(2) Install the right recirculation air filter as follows:

(a) Make sure there is no unwanted material or contamination in the filter housing [4] which could cause damage to the recirculation fan.

(b) Put the new recirculation air filter [3] in the filter housing [4].

(c) Do these checks of the spring clips:

1) Make sure that the spring clips apply pressure to keep the filter in position.

2) Make sure that all spring clips are installed and not damaged.

(d) Put the access panel [2] in its position and turn the quarter-turn fasteners [1] to attach the access panel [2] to the filter housing [4].

C. Put the Airplane Back to Its Usual Condition

SUBTASK 21-25-01-010-010

(1) Install the left and right aft bulkhead liners in the forward cargo compartment. To install the liners, do this task: Forward Cargo Compartment Aft Bulkhead Liner - Installation, AMM TASK 25-52-17-400-801.

SUBTASK 21-25-01-410-003

(2) Close the forward cargo compartment door.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-010-00-01

MECH | INSP

SUBTASK 21-25-01-865-002

(3) To restore recirculation fan operation after installation of the recirculation filter, Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	7	C00911	A/C RECIRC FAN LEFT CABIN AIR
E	9	C01156	A/C RECIRC FAN LEFT CONT

F/O Electrical System Panel, P6-4

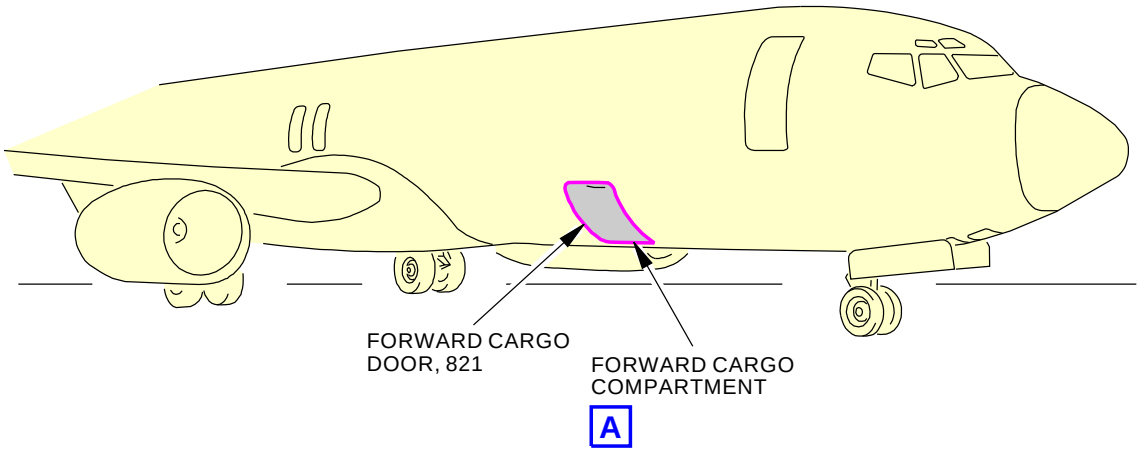
Row	Col	Number	Name
E	2	C01023	A/C RECIRC FAN RIGHT CONT.
E	4	C00884	AC RECIRC FAN RIGHT CABIN AIR

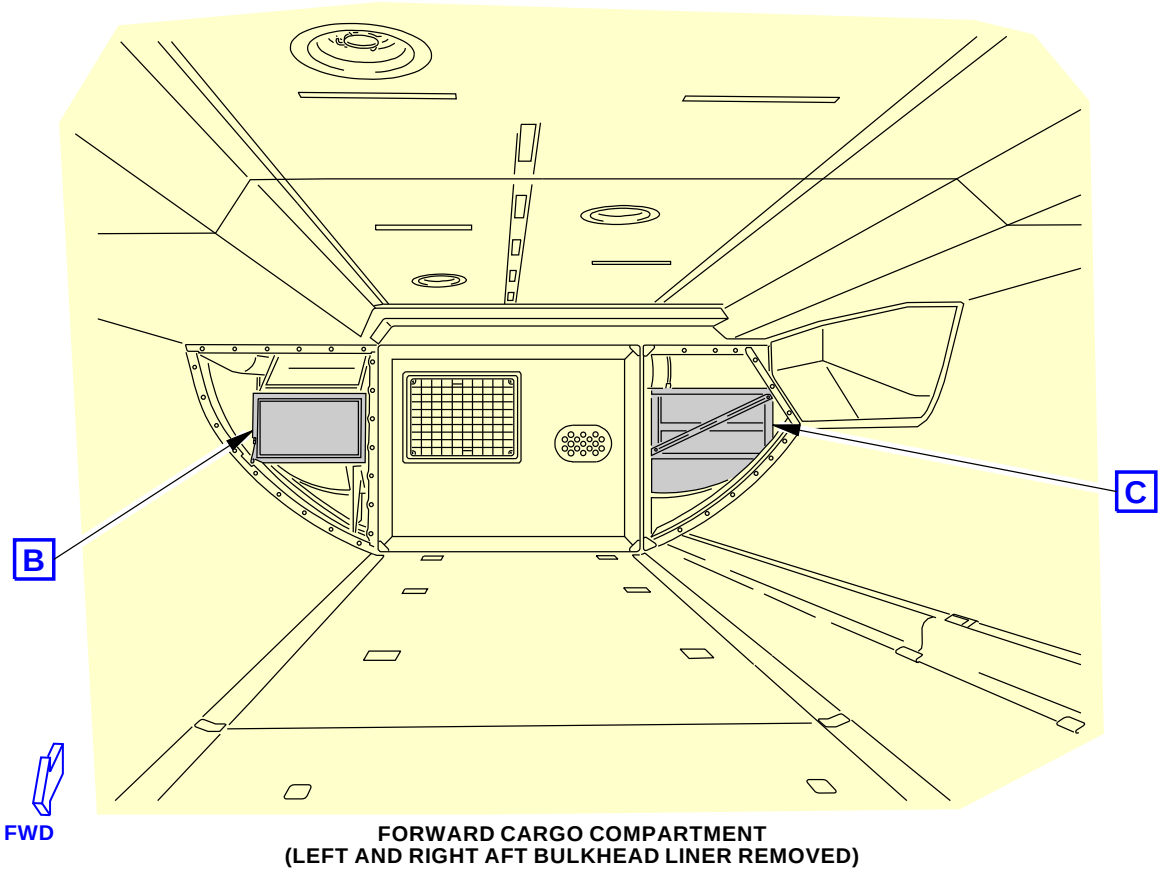
SUBTASK 21-25-01-860-007

(4) Put the RECIRC FAN switches in the AUTO position.

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-010-00-01





FORWARD CARGO COMPARTMENT
(LEFT AND RIGHT AFT BULKHEAD LINER REMOVED)

A

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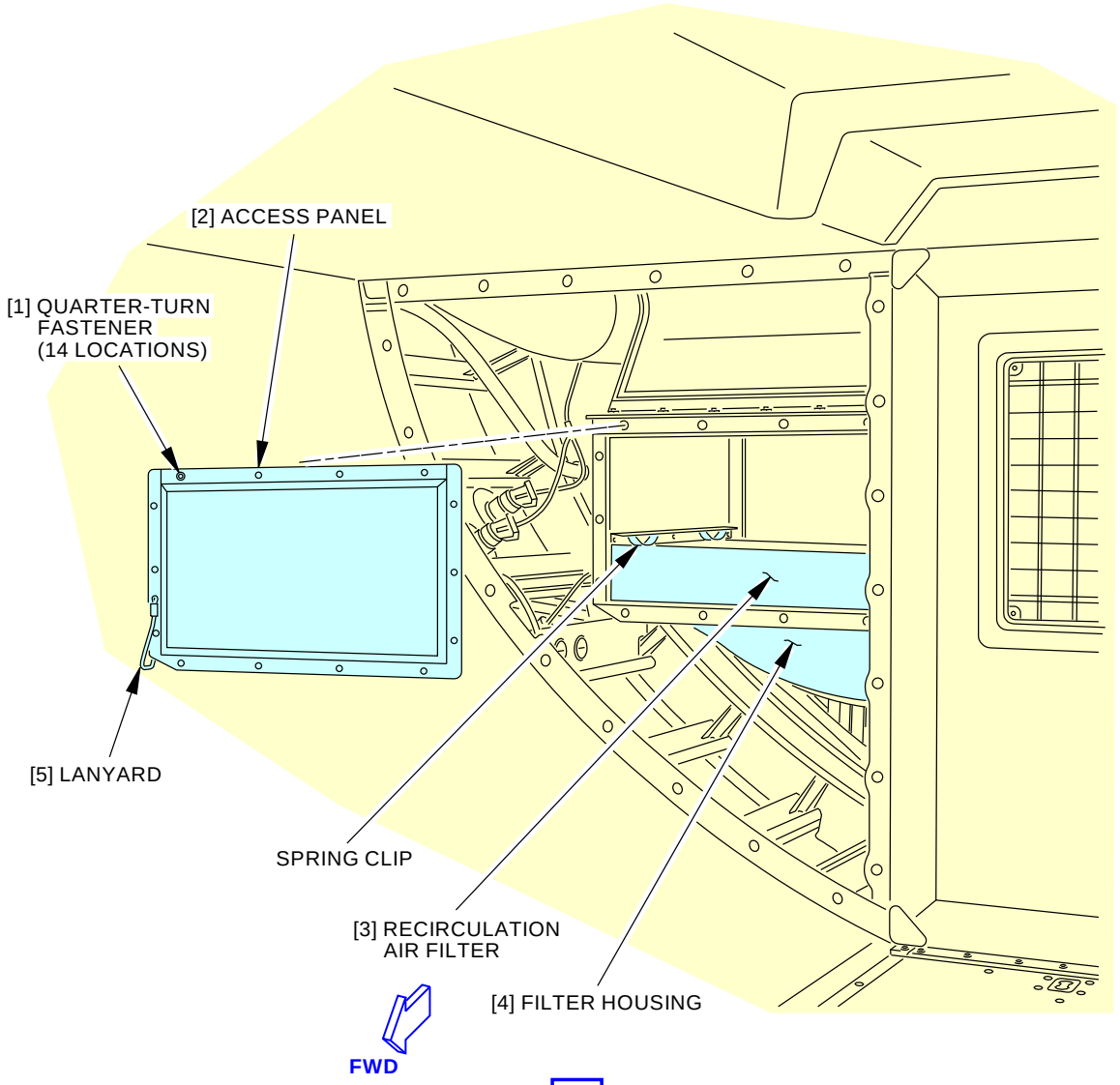
Recirculation Air Filter Installation
Figure 1 (Sheet 1 of 3)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-010-00-01



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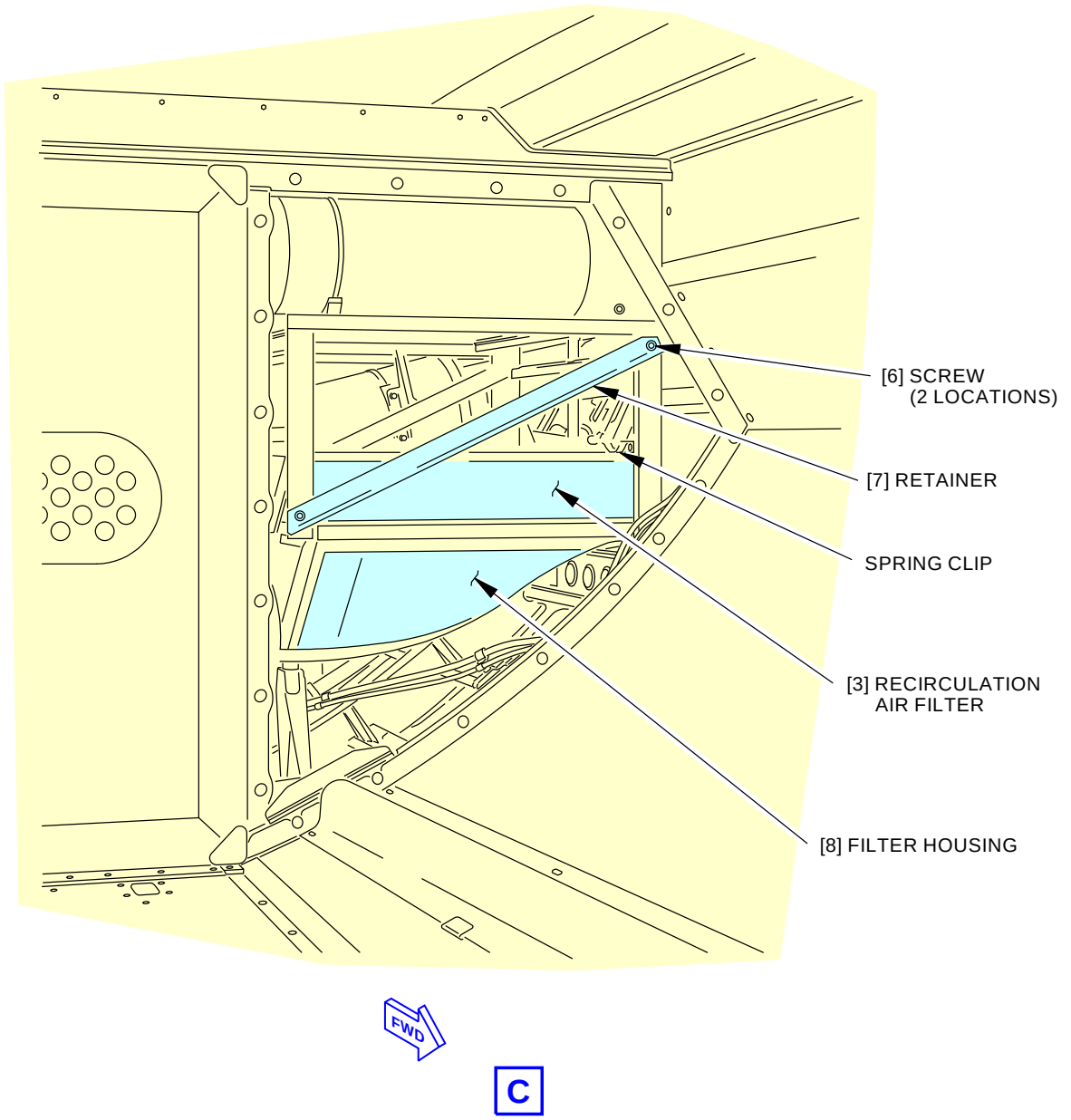
Recirculation Air Filter Installation
Figure 1 (Sheet 2 of 3)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-010-00-01



Recirculation Air Filter Installation
Figure 1 (Sheet 3 of 3)

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		RECIRCULATION FAN CHECK VALVE(S)			21-015-00-01
DATE	TASK				RELATED CARD
	INSPECTION - DETAILED				
TAIL NUMBER	WORK AREA	VERSION	THRESHOLD	REPEAT	APPLICABILITY
	FWD CARGO	1.1	6000 FH	6000 FH	AIRPLANE: ALL / ENGINE: ALL
STATION	SKILL				
	AIRPL				
		ACCESS			ZONE
		121HW 821			125 126

Perform a detailed inspection of the Recirculation Fan Check Valve(s) for condition, security, and proper operation.

A. References

Reference	Title
AMM 21-25-03-000-801	Recirculation Fan Check Valve Removal (P/B 401)
AMM 21-25-03-400-801	Recirculation Fan Check Valve Installation (P/B 401)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-015-00-01

MECH | INSP

TASK 21-25-03-200-801

1. Recirculation Fan Check Valve Inspection

Figure 1 or Figure 2

A. Preparation for Recirculation Fan Check Valve Inspection

SUBTASK 21-25-03-860-036

(1) Make sure the L PACK and R PACK switches on the P5-10 Air Conditioning Panel are in the OFF position.

SUBTASK 21-25-03-860-038

(2) Put the L RECIRC FAN and R RECIRC FAN switches on the P5-10 Air Conditioning Panel in the OFF positions.

SUBTASK 21-25-03-860-039

(3) Open these circuit breakers to prevent inadvertent recirculation fan operation when you remove the recirculation fan check valve:

Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	7	C00911	A/C RECIRC FAN LEFT CABIN AIR

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
E	4	C00884	AC RECIRC FAN RIGHT CABIN AIR

B. Recirculation Fan Check Valve Removal

SUBTASK 21-25-03-020-004

(1) Remove the recirculation fan check valve. To remove the recirculation fan check valve, do this task: Recirculation Fan Check Valve Removal, AMM TASK 21-25-03-000-801.

C. Recirculation Fan Check Valve Inspection

SUBTASK 21-25-03-210-002

(1) Examine the recirculation fan check valve as follows:

(a) Use your finger or a pencil to push on each flapper to open them.

(b) Make sure that each flapper opens freely and moves smoothly to the stop tube.

(c) Make sure that each flapper closes smoothly and touches fully on the face of the check valve body.

(d) Make sure that there is no damage to the flappers:

1) Measure the thickness of the area on the flappers where the flappers contact the stop tube.

2) Make sure that the stop tube contact area on the flappers is a minimum of 0.020 inch thick (0.508 mm).

3) Repair or replace check valves that do not meet the minimum thickness.

(e) Make sure that there is no corrosion or lint on the flappers or the hinge pin.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-015-00-01

MECH	INSP

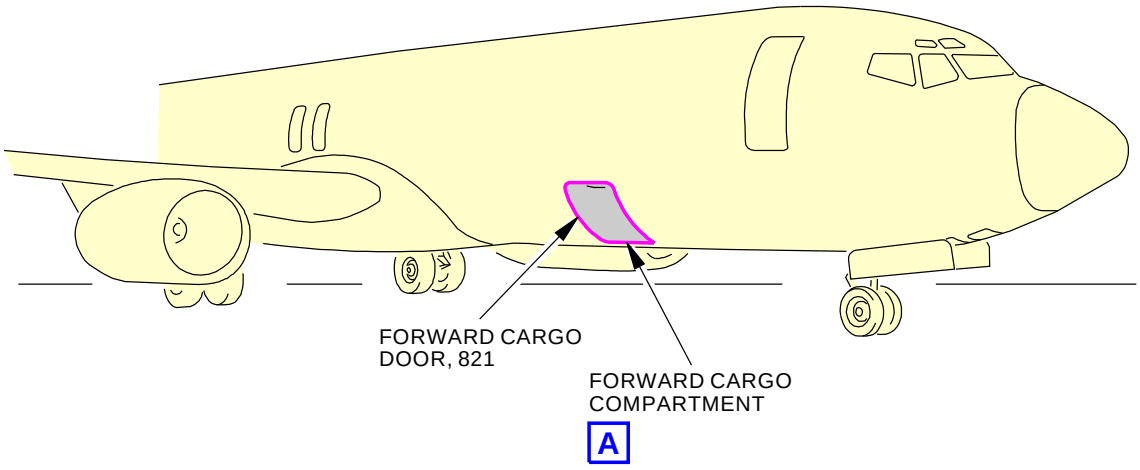
D. Recirculation Fan Check Valve Installation

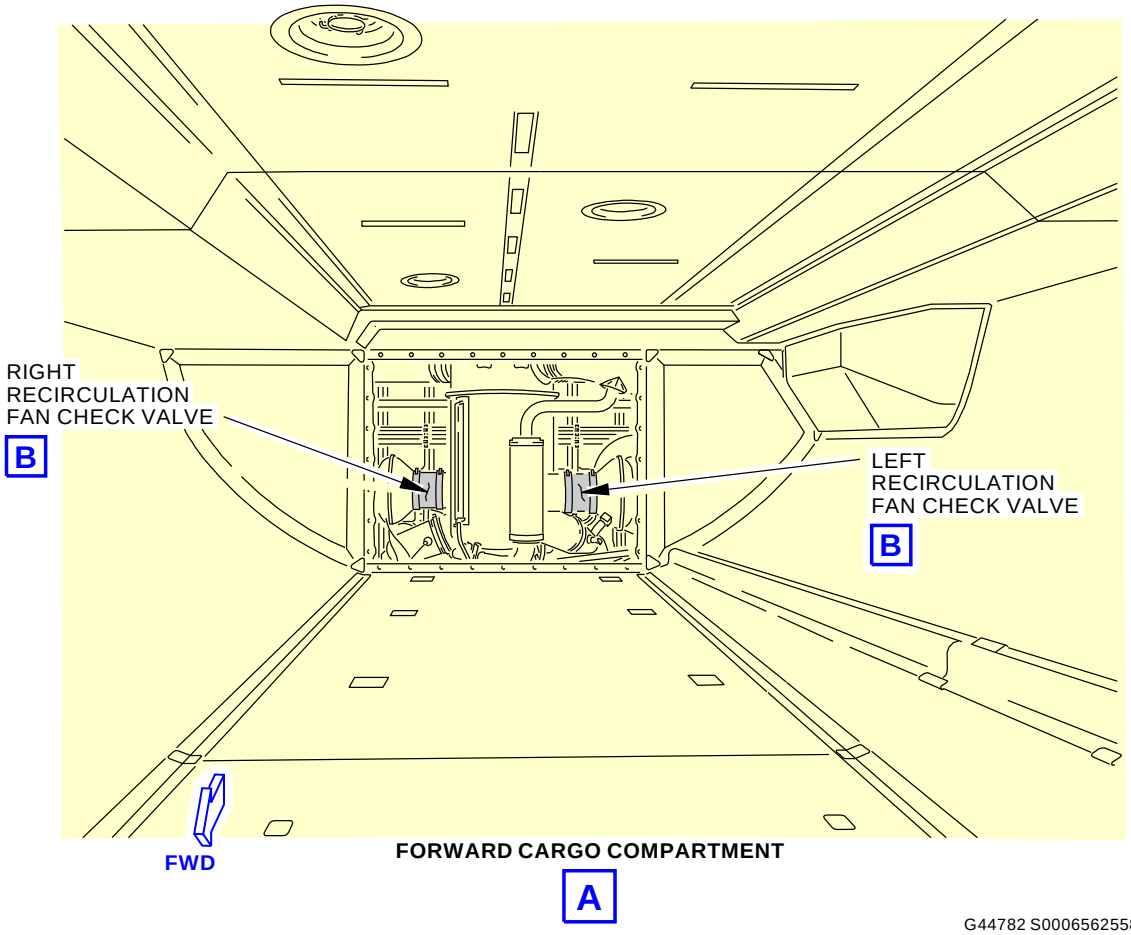
SUBTASK 21-25-03-420-003

(1) Install the recirculation fan check valve. To install the recirculation fan check valve, do this task: Recirculation Fan Check Valve Installation, AMM TASK 21-25-03-400-801.

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-015-00-01





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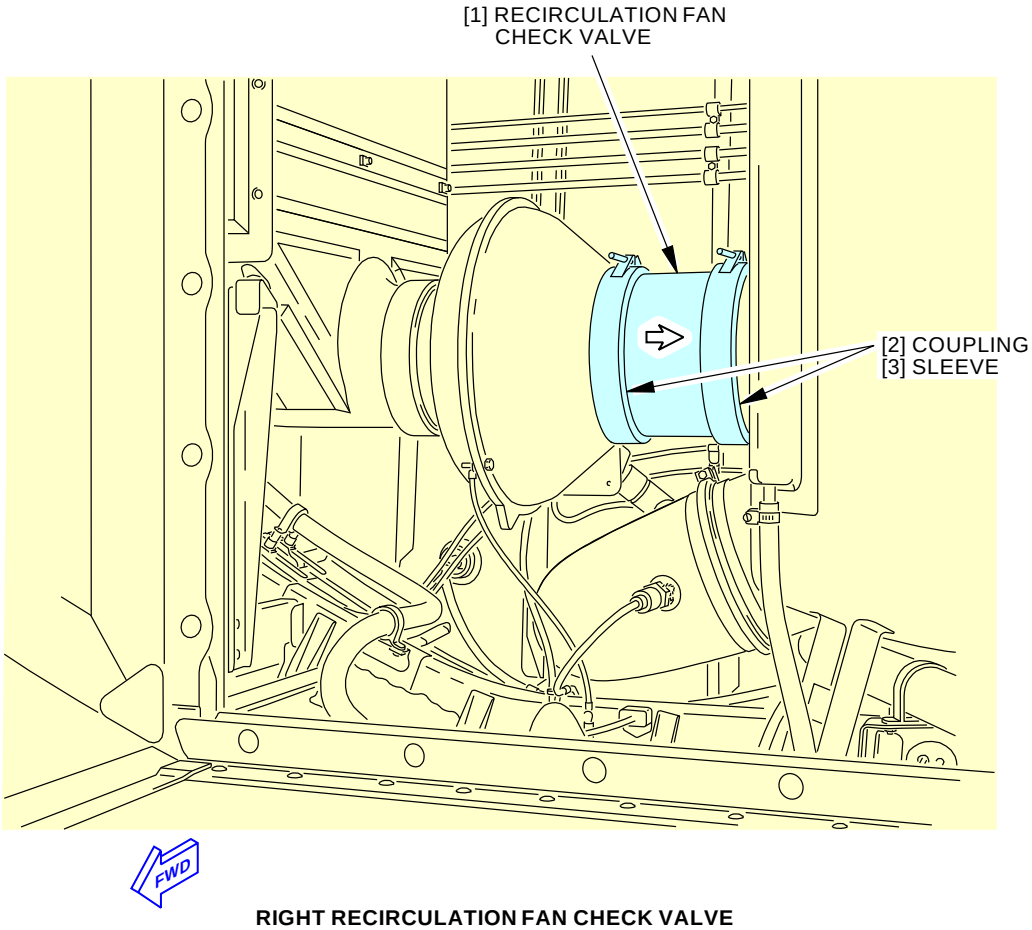
Recirculation Fan Check Valve Installation
Figure 1 (Sheet 1 of 2)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-015-00-01



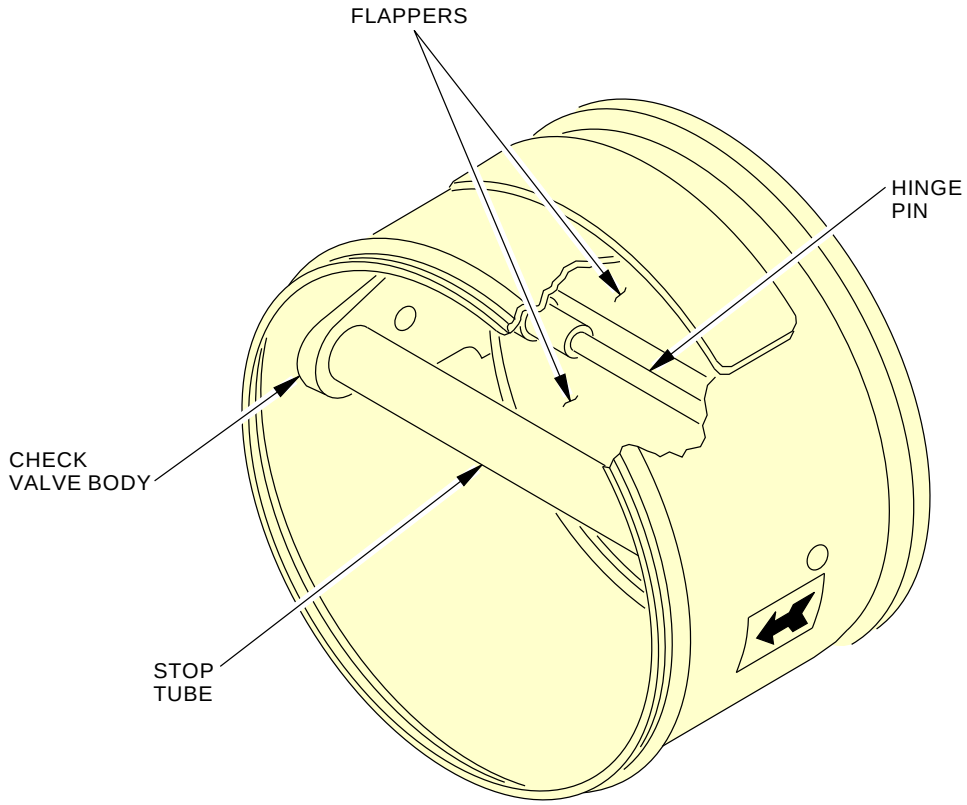
RIGHT RECIRCULATION FAN CHECK VALVE
(LEFT RECIRCULATION FAN CHECK VALVE IS OPPOSITE)

B

G44786 S0006562559_V2

Recirculation Fan Check Valve Installation
Figure 1 (Sheet 2 of 2)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-015-00-01



D81581 S0000166474_V2

Recirculation Fan Check Valve Inspection
Figure 2

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		ALTERNATE E/E COOLING SUPPLY FAN			**21-020-00-01**
DATE	TASK **OPERATIONAL**				RELATED CARD
TAIL NUMBER	WORK AREA **E/E COMPARTMENT**	VERSION **1.1**	THRESHOLD **8000 FH**	REPEAT **8000 FH**	APPLICABILITY AIRPLANE **ALL** ENGINE **ALL**
STATION	SKILL **AIRPL**				
		ACCESS			ZONE **211 212**

Operationally check the alternate E/E cooling supply fan.

Note: This task also checks the normal E/E cooling supply fan check valve.

A. References

Reference	Title
AMM 24-22-00-860-811	Supply Electrical Power (P/B 201)
AMM 24-22-00-860-812	Remove Electrical Power (P/B 201)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-020-00-01

MECH	INSP

TASK 21-27-00-890-801

1. Alternate Equipment Cooling Supply Fan - Operational Test

(Figure 1)

A. General

(1) This task does a test of the equipment cooling alternate supply fan.

B. Procedure

SUBTASK 21-27-00-860-028

(1) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811.

SUBTASK 21-27-00-860-029

(2) Make sure the equipment cooling supply OFF light on the equipment cooling panel is not on.

SUBTASK 21-27-00-860-030

(3) Make sure the EQUIP COOLING SUPPLY switch on the Equipment Cooling Panel is in the NORM position.

SUBTASK 21-27-00-860-031

CAUTION: MAKE SURE THAT YOU CLOSE THE FAN CIRCUIT BREAKER WITHIN 5 MINUTES AFTER YOU OPEN IT. IF YOU LEAVE THE CIRCUIT BREAKER OPEN MORE THAN 5 MINUTES, THE ELECTRICAL/ELECTRONIC EQUIPMENT CAN BECOME TOO HOT. THIS CAN CAUSE DAMAGE TO THE ELECTRICAL/ELECTRONIC EQUIPMENT.

(4) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
D	10	C00934	EQPT CLG SPLY FAN PWR-NORM

SUBTASK 21-27-00-710-009

(5) Make sure the equipment cooling supply OFF light comes on after 20 to 60 seconds.

SUBTASK 21-27-00-860-032

(6) Put the EQUIP COOLING SUPPLY switch in the ALTN position.

SUBTASK 21-27-00-710-010

(7) Make sure the equipment cooling supply OFF light goes out within 20 seconds.

SUBTASK 21-27-00-860-033

(8) Remove the safety tag and close this circuit breaker:

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
D	10	C00934	EQPT CLG SPLY FAN PWR-NORM

SUBTASK 21-27-00-860-118

(9) Put the EQUIP COOLING SUPPLY switch in the NORM position.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-020-00-01

MECH	INSP

SUBTASK 21-27-00-860-034

(10) If the MASTER CAUTION or AIR COND annunciator lights are on, push and release one of the two MASTER CAUTION lights.

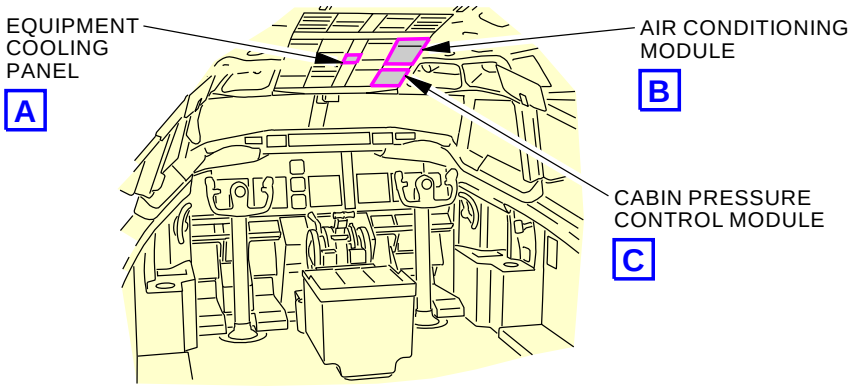
C. Put the Airplane Back to Its Usual Condition

SUBTASK 21-27-00-860-035

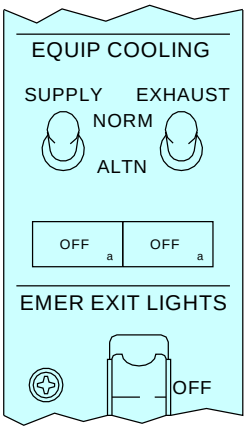
(1) Remove electrical power if it is not necessary. To remove electrical power, do this task: Remove Electrical Power, AMM TASK 24-22-00-860-812.

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-020-00-01

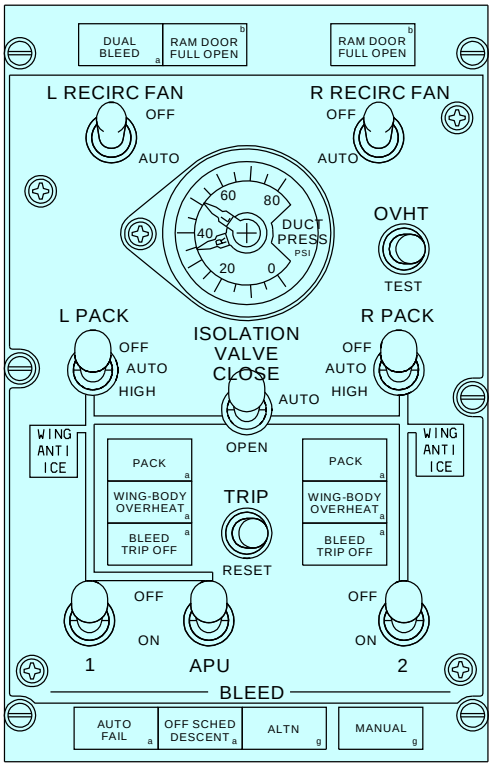


FLIGHT COMPARTMENT



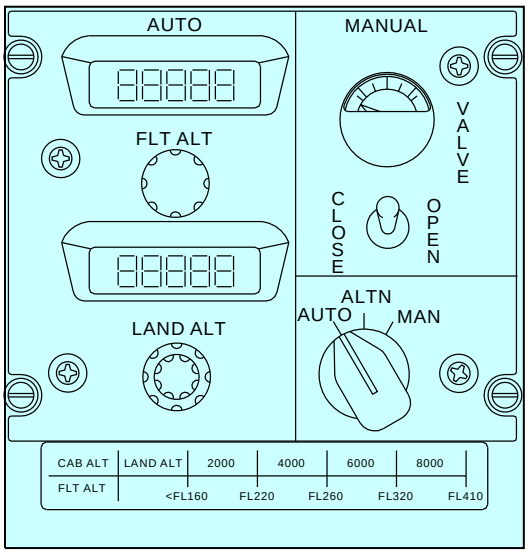
EQUIPMENT COOLING PANEL

A



AIR CONDITIONING MODULE

B



CABIN PRESSURE CONTROL MODULE

C

M08354 S0006562586_V2

Equipment Cooling System - Adjustment/Test
Figure 1

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		ALTERNATE E/E COOLING EXHAUST FAN			**21-030-00-01**
DATE	TASK **OPERATIONAL**				RELATED CARD
TAIL NUMBER	WORK AREA **E/E COMPARTMENT**	VERSION **1.1**	THRESHOLD **8000 FH**	REPEAT **8000 FH**	APPLICABILITY AIRPLANE **ALL** ENGINE **ALL**
STATION	SKILL **AIRPL**				
		ACCESS			ZONE **211 212**

Operationally check the alternate E/E cooling exhaust fan.

Note: This task also checks the normal E/E cooling exhaust fan check valve.

A. References

Reference	Title
AMM 24-22-00-860-811	Supply Electrical Power (P/B 201)
AMM 24-22-00-860-812	Remove Electrical Power (P/B 201)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-030-00-01

MECH	INSP

TASK 21-27-00-700-804

1. Alternate Equipment Cooling Exhaust Fan - Operational Test

(Figure 1)

A. General

(1) This task does a test of the equipment cooling alternate exhaust fan.

B. Procedure

SUBTASK 21-27-00-860-036

(1) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811.

SUBTASK 21-27-00-860-037

(2) Make sure the equipment cooling exhaust OFF light on the equipment cooling panel is not on.

SUBTASK 21-27-00-860-038

(3) Make sure the EQUIP COOLING EXHAUST switch on the Equipment Cooling Panel is in the NORM position.

SUBTASK 21-27-00-860-039

CAUTION: MAKE SURE THAT YOU CLOSE THE FAN CIRCUIT BREAKER WITHIN 5 MINUTES AFTER YOU OPEN IT. IF YOU LEAVE THE CIRCUIT BREAKER OPEN MORE THAN 5 MINUTES, THE ELECTRICAL/ELECTRONIC EQUIPMENT CAN BECOME TOO HOT. THIS CAN CAUSE DAMAGE TO THE ELECTRICAL/ELECTRONIC EQUIPMENT.

(4) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
E	1	C00836	EQPT CLG EXH FAN PWR-NORM

SUBTASK 21-27-00-710-011

(5) Make sure the equipment cooling exhaust OFF light comes on after 20 to 60 seconds.

SUBTASK 21-27-00-860-040

(6) Put the EQUIP COOLING EXHAUST switch in the ALTN position.

SUBTASK 21-27-00-710-012

(7) Make sure the equipment cooling exhaust OFF light goes out within 20 seconds.

SUBTASK 21-27-00-860-041

(8) Remove the safety tag and close this circuit breaker:

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
E	1	C00836	EQPT CLG EXH FAN PWR-NORM

SUBTASK 21-27-00-860-042

(9) Put the EQUIP COOLING EXHAUST switch in the NORM position.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-030-00-01

MECH	INSP

SUBTASK 21-27-00-860-119

(10) If the MASTER CAUTION or AIR COND annunciator lights are on, push and release one of the two MASTER CAUTION lights.

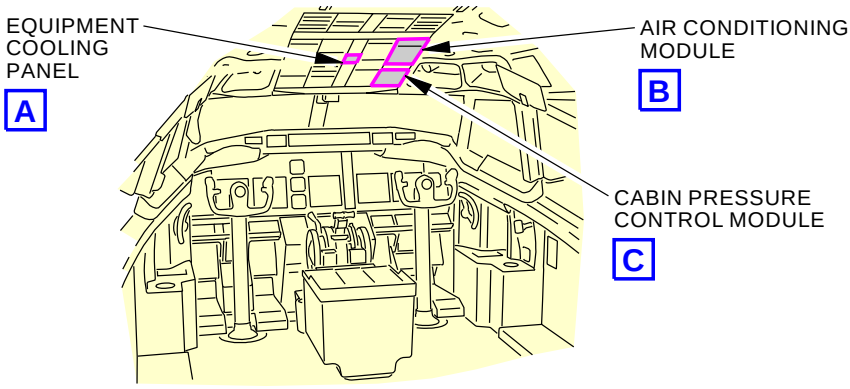
C. Put the Airplane Back to Its Usual Condition

SUBTASK 21-27-00-860-043

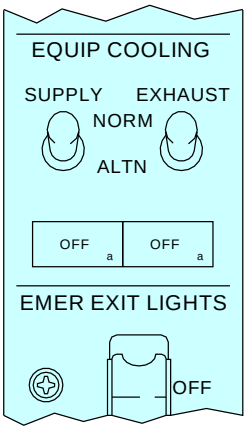
(1) Remove electrical power if it is not necessary. To remove electrical power, do this task: Remove Electrical Power, AMM TASK 24-22-00-860-812.

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-030-00-01

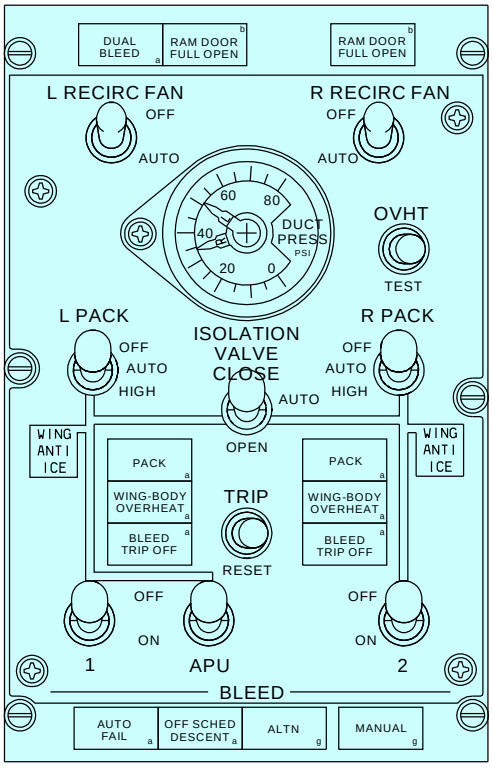


FLIGHT COMPARTMENT



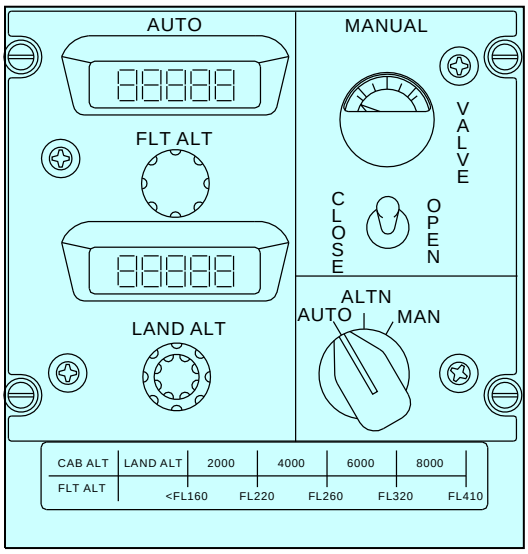
EQUIPMENT COOLING PANEL

A



AIR CONDITIONING MODULE

B



CABIN PRESSURE CONTROL MODULE

C

M08354 S0006562586_V2

Equipment Cooling System - Adjustment/Test
Figure 1

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		E/E COOLING SUPPLY FAN FILTER			**21-040-00-01**
DATE	TASK **REPLACE**				RELATED CARD
TAIL NUMBER	WORK AREA **FWD CARGO**	VERSION **1.1**	THRESHOLD **7500 FH**	REPEAT **7500 FH**	APPLICABILITY AIRPLANE: **ALL** ENGINE: **ALL**
STATION	SKILL **AIRPL**				
		ACCESS			ZONE **118**

Replace the E/E cooling supply fan filter.

A. References

Reference	Title
AMM 24-22-00-860-812	Remove Electrical Power (P/B 201)
AMM 25-52-16-000-801	Forward Cargo Compartment Forward Bulkhead Liner - Removal (P/B 401)
AMM 25-52-16-400-801	Forward Cargo Compartment Forward Bulkhead Liner - Installation (P/B 401)
AMM 52-31-00-580-801	Open the Cargo Door (P/B 201)
AMM 52-31-00-580-802	Close the Cargo Door (P/B 201)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-040-00-01

MECH	INSP

TASK 21-27-01-000-801

1. Equipment Cooling Air Filter Removal

(Figure 1)

A. General

(1) You must remove electrical power from the airplane before you remove an equipment cooling air filter. This will make sure the electrical/electronic equipment does not receive electrical power when the equipment cooling system is not in operation.

B. Prepare for the Removal

SUBTASK 21-27-01-860-001

CAUTION: MAKE SURE YOU REMOVE ELECTRICAL POWER FROM THE AIRPLANE. IF YOU SUPPLY ELECTRICAL POWER TO THE ELECTRICAL/ELECTRONIC EQUIPMENT WHEN THE EQUIPMENT COOLING SYSTEM IS NOT IN OPERATION, THE ELECTRICAL/ELECTRONIC EQUIPMENT CAN BECOME TOO HOT. THIS CAN CAUSE DAMAGE TO THE ELECTRICAL/ELECTRONIC EQUIPMENT.

(1) Do this task: Remove Electrical Power, AMM TASK 24-22-00-860-812.

SUBTASK 21-27-01-010-001

(2) Open the forward cargo compartment door (Open the Cargo Door, AMM TASK 52-31-00-580-801).

SUBTASK 21-27-01-010-002

(3) Remove the forward right bulkhead liner in the forward cargo compartment. To remove the liner, do this task: Forward Cargo Compartment Forward Bulkhead Liner - Removal, AMM TASK 25-52-16-000-801.

C. Equipment Cooling Air Filter Removal

SUBTASK 21-27-01-010-003

(1) Close the forward cargo compartment door (Close the Cargo Door, AMM TASK 52-31-00-580-802).

NOTE: The cargo door must be lowered to permit the removal of the air filter.

SUBTASK 21-27-01-020-001

(2) Release the latch assemblies [3] that are on the top and the bottom of the filter housing assembly [1].

SUBTASK 21-27-01-020-002

(3) Remove the equipment cooling air filter [2] from the filter housing assembly [1].

SUBTASK 21-27-01-010-004

(4) If necessary, open the forward cargo compartment door (Open the Cargo Door, AMM TASK 52-31-00-580-801).

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-040-00-01

MECH | INSP

TASK 21-27-01-400-801

2. Equipment Cooling Air Filter Installation

(Figure 1)

A. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Filter	21-27-51-07C-070	AKS ALL

B. Preparation for Installation

SUBTASK 21-27-01-010-005

(1) Open the forward cargo compartment door (Open the Cargo Door, AMM TASK 52-31-00-580-801).

C. Equipment Cooling Air Filter Installation

SUBTASK 21-27-01-400-001

(1) Get access to the filter housing assembly [1] at the right, forward bulkhead in the cargo compartment.

SUBTASK 21-27-01-400-002

(2) Close the forward cargo compartment door (Close the Cargo Door, AMM TASK 52-31-00-580-802) to allow access for the installation of the air filter.

SUBTASK 21-27-01-020-003

(3) Put the equipment cooling air filter [2] in its position on the filter housing assembly [1].

SUBTASK 21-27-01-020-004

(4) Close the latch assemblies [3] that are on the top and the bottom of the filter housing assembly [1].

D. Put the Airplane Back to Its Usual Condition

SUBTASK 21-27-01-410-001

(1) Install the forward right bulkhead liner in the forward cargo compartment. To install the liner, do this task: Forward Cargo Compartment Forward Bulkhead Liner - Installation, AMM TASK 25-52-16-400-801.

SUBTASK 21-27-01-010-006

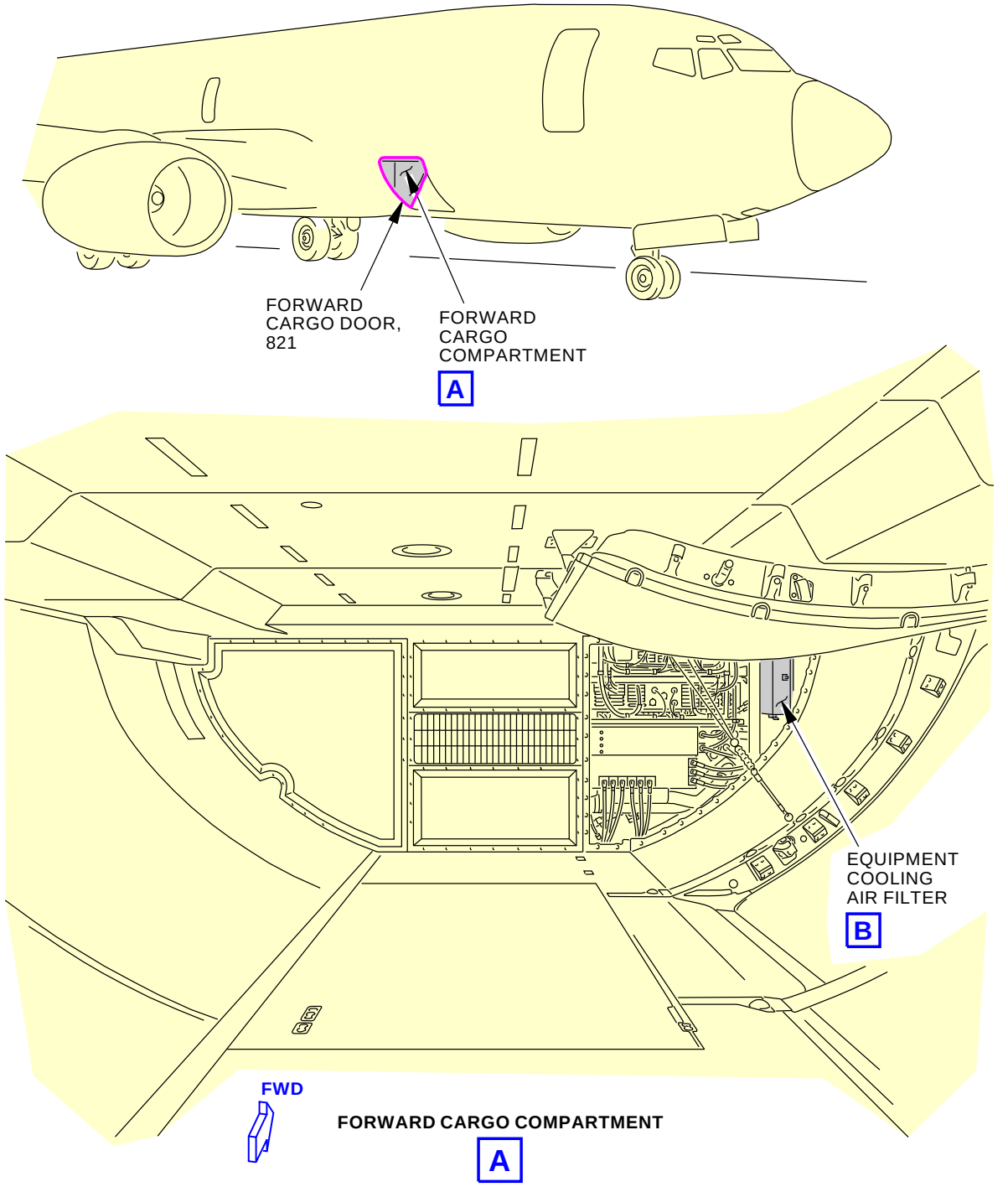
(2) Open the cargo compartment door to allow technician to exit.

SUBTASK 21-27-01-410-002

(3) As required, close the forward cargo compartment door.

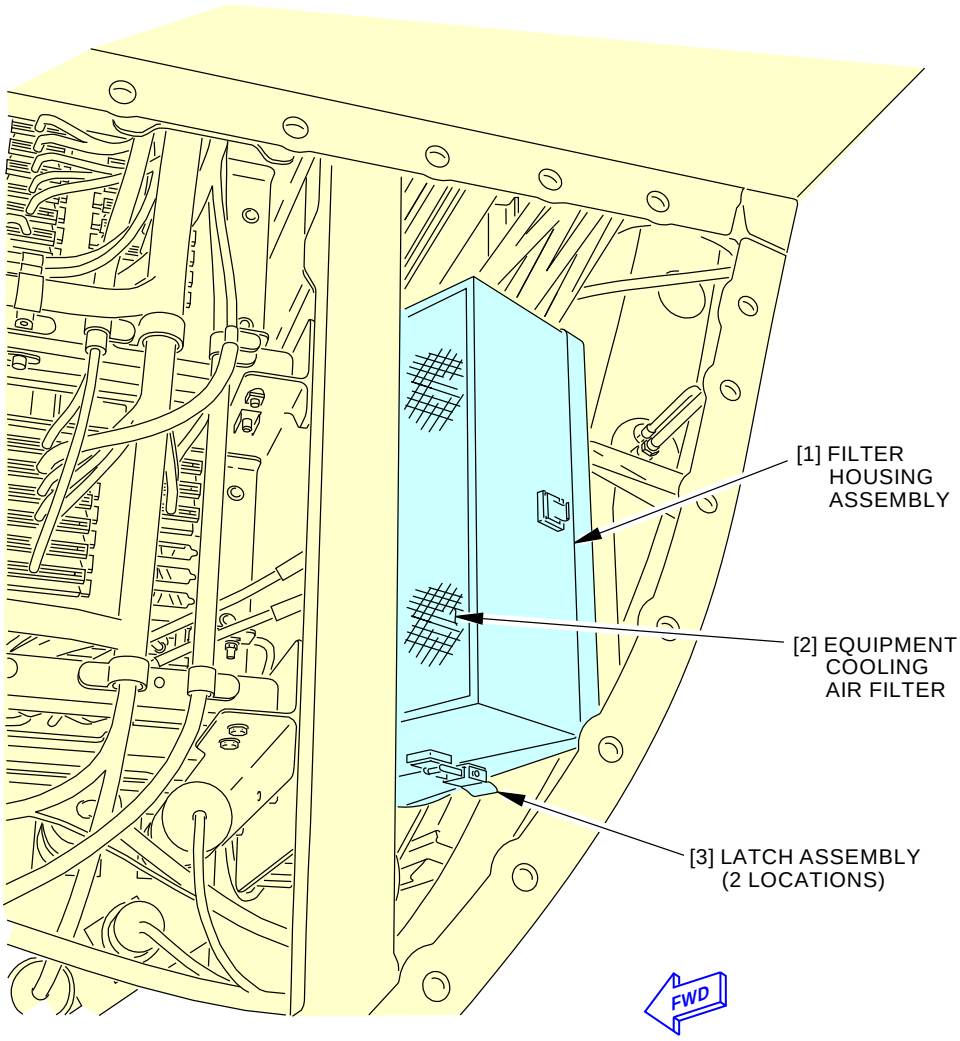
——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-040-00-01



Equipment Cooling Air Filter Installation
Figure 1 (Sheet 1 of 2)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-040-00-01



EQUIPMENT COOLING AIR FILTER

B

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Equipment Cooling Air Filter Installation
Figure 1 (Sheet 2 of 2)

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		OVERBOARD EXHAUST VALVE CHECK			**21-050-00-01**
DATE	TASK **OPERATIONAL**				RELATED CARD
TAIL NUMBER	WORK AREA **CREW CABIN**	VERSION **1.1**	THRESHOLD **9000 FH**	REPEAT **9000 FH**	APPLICABILITY AIRPLANE: **ALL** ENGINE: **ALL** **NOTE**
STATION	SKILL **AIRPL**				
		ACCESS **117A**			ZONE **117 118 211 212**

Operationally check the equipment cooling overboard exhaust valve, supply fans, exhaust fans (if applicable), and recirculation fan(s) in smoke clearance mode.

AIRPLANE NOTE: Exhaust fan operational check is applicable to 737-600/-700/-800 airplanes Line Number 1701 and on, and L/N 1-1700 that have incorporated SB 737-26-1122.

A. References

Reference	Title
AMM 24-22-00-860-811	Supply Electrical Power (P/B 201)
AMM 24-22-00-860-812	Remove Electrical Power (P/B 201)
AMM 32-09-00-840-801	Prepare to Put the Airplane in the Air Mode (P/B 201)
AMM 32-09-00-840-802	Return the Airplane Systems Back to Their Normal On Ground Condition (P/B 201)
AMM 32-09-00-860-802	Return the Airplane to the Ground Mode (P/B 201)
FIM 21-25 TASK 802	Left or Right Recirculation Fan Does Not Operate - Fault Isolation
FIM 21-27 TASK 805	EQUIP COOLING EXHAUST OFF Light On With the Switch at ALTERNATE - Fault Isolation
FIM 21-27 TASK 806	EQUIP COOLING EXHAUST OFF Light On With the Switch at NORMAL - Fault Isolation
FIM 21-27 TASK 807	EQUIP COOLING SUPPLY OFF Light On With the Switch at ALTERNATE - Fault Isolation
FIM 21-27 TASK 808	EQUIP COOLING SUPPLY OFF Light On With the Switch at NORMAL - Fault Isolation
FIM 21-27 TASK 809	Equipment Cooling Overboard Exhaust Valve Does Not Open When Commanded - Fault Isolation
FIM 21-27 TASK 810	Equipment Cooling Supply Fans Do Not Shut Off When Commanded During a Cargo Compartment Smoke Alert - Fault Isolation
FIM 21-27 TASK 811	Equipment Cooling Exhaust Fans Do Not Shut Off When Commanded During a Cargo Compartment Smoke Alert - Fault Isolation

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-050-00-01

MECH | INSP

TASK 21-27-00-700-807

1. Smoke Clearance Mode - Operational Test

A. General

(1) This task does an operational test of the equipment cooling overboard exhaust valve. The interfaces of the exhaust fans, supply fans, recirculation fans, and smoke detection system with the overboard exhaust valve system are also tested.

(2) The equipment cooling overboard exhaust valve will be referred to by the acronym OEV in this test.

(3) In the event of a forward cargo fire, the cargo smoke detectors will detect smoke and annunciate to the flight crew of the forward cargo fire. The flight crew will then take the appropriate action for smoke clearance from the flight deck which results in the following:

(a) Power to the E/E cooling supply normal and alternate fans is removed for 5 minutes

(b) The E/E cooling supply low flow sensor warning is inhibited for 5 minutes

(c) The OEV opens to the SMOKE position for the duration of the flight

(d) Power to the E/E cooling exhaust normal and alternate fans is removed for the duration of the flight

(e) The E/E cooling exhaust low flow sensor warning is inhibited for the duration of the flight.

B. Operational Test Requirements

SUBTASK 21-27-00-860-377

(1) If the operational test is not satisfactory, do a system fault isolation as follows:

(a) For the left or right recirculating fan, refer to FIM 21-25 TASK 802.

(b) For the alternate exhaust fan, M99, refer to FIM 21-27 TASK 805.

(c) For the normal exhaust fan, M98, see: FIM 21-27 TASK 806.

(d) For the alternate supply fan, M1323, refer to FIM 21-27 TASK 807.

(e) For the normal supply fan, M1322, refer to FIM 21-27 TASK 808.

(f) For the OEV, refer to FIM 21-27 TASK 809.

(g) If the supply fans do not shut off when commanded, refer to FIM 21-27 TASK 810.

(h) If the exhaust fans do not shut off when commanded, refer to FIM 21-27 TASK 811.

(2) Do the operational test again until the test is satisfactory.

C. Preparation for the Operational Test of the OEV Smoke Clearance Mode

SUBTASK 21-27-00-010-004

(1) Get access to the Digital Cabin Pressure Controller (DCPC) No. 2 as follows:

NOTE: The digital cabin pressure controller No. 2 will be used to determine if the OEV is in the NORMAL or SMOKE position.

(a) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-050-00-01

MECH | INSP

D. Operational Test of the Smoke Clearance Mode of the Overboard Exhaust Valve

SUBTASK 21-27-00-860-223

(1) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811.

SUBTASK 21-27-00-860-368

(2) Do one of the steps that follows:

(a) Make sure that the CAB/UTIL switch on the P5-13 electrical meters, battery and galley power panel is set at ON.

(b) Make sure that the GALLEY switch on the P5-13 electrical meters, battery and galley power panel is set at ON.

SUBTASK 21-27-00-210-005

(3) Make sure the needle on the position indicator gage on the P5-6 pressurization control panel shows that the aft outflow valve is fully open.

SUBTASK 21-27-00-860-225

(4) Make sure that the airplane is in the ground mode.

SUBTASK 21-27-00-860-359

(5) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-1

Row	Col	Number	Name
E	5	C01009	ADIRU LEFT DC
E	7	C01007	ADIRU LEFT AC

CAPT Electrical System Panel, P18-2

Row	Col	Number	Name
E	5	C01204	SMYD-1 CMPTR DC
E	6	C01205	SMYD-1 SNSR EXC AC

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	18	C01434	EQPT COOLING LOW FLOW DETECT EXHAUST

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	4	C01207	SMYD-2 SNSR EXC AC
B	5	C01206	SMYD-2 CMPTR DC
C	14	C01008	ADIRU RIGHT AC
C	17	C01010	ADIRU RIGHT DC

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
C	14	C01435	EQPT COOLING EXHAUST FAN CONT NORMAL
C	15	C01436	EQPT COOLING EXHAUST FAN CONT ALTN

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-050-00-01

MECH	INSP

SUBTASK 21-27-00-860-335

(6) Do this task: Prepare to Put the Airplane in the Air Mode, AMM TASK 32-09-00-840-801.

(a) Do not put the airplane into the air mode.

SUBTASK 21-27-00-860-336

(7) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
C	15	C01355	LANDING GEAR AIR/GND SYS 2
C	16	C01356	LANDING GEAR AIR/GND SYS 1

SUBTASK 21-27-00-860-227

(8) Set the EQUIP COOLING SUPPLY and EXHAUST switches on the equipment cooling panel in the middle of the P5 forward overhead panel to the NORM positions.

SUBTASK 21-27-00-210-004

(9) Make sure that pneumatic power is off:

(a) The L and R needle indicators on the DUCT PRESS gauge on the P5-10 air conditioning panel indicate 0 psi.

SUBTASK 21-27-00-860-226

(10) Set these switches on the P5-10 Air Conditioning Panel to the AUTO position:

(a) L PACK

(b) R PACK

(c) L RECIRC FAN

SUBTASK 21-27-00-860-284

(11) Set the R RECIRC FAN switch on the P5-10 Air Conditioning Panel to the OFF position.

SUBTASK 21-27-00-710-067

(12) Do this check that the left recirculation fan is operating:

(a) If air is flowing out of the gaspers just outboard of the captain's and first officer's windshield and foot air controls, the left recirculation fan is operating.

(b) If the airflow out of the gaspers is not sufficient to positively determine left recirculation fan operation, then do the step that follows:

1) Open this access panel:

Open this access panel:

Number	Name/Location
191E	Low Pressure ECS Panel - Forward

2) Push up on the swing check valve.

3) If air flows out through the swing check valve, the left recirculation fan is operating.

SUBTASK 21-27-00-860-337

(13) Set the L RECIRC FAN switch on the P5-10 Air Conditioning Panel to the OFF position.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-050-00-01

MECH	INSP

SUBTASK 21-27-00-710-073

(14) Do this check that the recirculation fans are not operating:

(a) If air is not flowing out of the gaspers just outboard of the windshield and foot air controls, the recirculation fans are not operating.

SUBTASK 21-27-00-860-338

(15) Set the R RECIRC FAN switch on the P5-10 Air Conditioning Panel to the AUTO position.

SUBTASK 21-27-00-710-068

(16) Do this check that the right recirculation fan is operating:

(a) If air is flowing out of the gaspers just outboard of the captain's and first officer's windshield and foot air controls , the right recirculation fan is operating.

(b) If the airflow out of the gaspers is not sufficient to positively determine right recirculation fan operation, then do the steps that follow:

1) Open this access panel:

Number	Name/Location
191E	Low Pressure ECS Panel - Forward

2) Push up on the swing check valve.

3) If air flows out through the swing check valve, the right recirculation fan is operating.

SUBTASK 21-27-00-860-263

(17) Do the steps that follow to prepare the cabin pressure controller to display the OEV position indication:

(a) Set the pressurization mode selector switch on the P5-6 pressurization control panel to AUTO.

NOTE: The AUTO FAIL light may momentarily flash when AUTO is selected.

(b) Push the ON/OFF button on the front of the cabin pressure controller No.2 (M1654) on the E1-1 shelf in the E/E compartment.

(c) Push the MENU button.

(d) Continue to push the ↓ button until the display shows SYSTEM STATUS.

(e) Push the YES button.

(f) Push the ↓ button until the display shows SYSTEM CONFIG.

(g) Push the YES button.

(h) Push the ↓ button until the display shows this message:

1) CARGO HT VLV LOW.

NOTE: This display indicates that the OEV is in the NORMAL position.

SUBTASK 21-27-00-710-069

(18) Make sure that the DCPC display shows CARGO HT VLV LOW.

SUBTASK 21-27-00-860-339

(19) Set the R PACK switch to the HIGH position.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-050-00-01

MECH | INSP

SUBTASK 21-27-00-710-070

(20) Make sure the DCPC display shows CARGO HT VLV HIGH.

SUBTASK 21-27-00-860-340

(21) Set the R PACK switch to the AUTO position.

SUBTASK 21-27-00-710-071

(22) Make sure the DCPC display shows CARGO HT VLV LOW.

SUBTASK 21-27-00-860-341

(23) Set the L PACK switch to the HIGH position.

SUBTASK 21-27-00-710-072

(24) Make sure the DCPC display shows CARGO HT VLV HIGH.

SUBTASK 21-27-00-710-074

(25) Do an audible check that the normal supply fan M1322 is operating.

SUBTASK 21-27-00-860-342

(26) Set this switch on the P5-10 Air Conditioning Panel to the OFF position:

(a) R RECIRC FAN

(b) Make a note of the time when the switch is placed in the OFF position.

SUBTASK 21-27-00-710-075

(27) Make sure the DCPC display shows CARGO HT VLV HIGH.

NOTE: This display indicates that the OEV is in the SMOKE position.

SUBTASK 21-27-00-710-076

(28) Do an audible check that the normal supply fan M1322 is not operating.

SUBTASK 21-27-00-860-343

(29) Set the EQUIP COOLING SUPPLY and EXHAUST switches on the equipment cooling panel in the middle of the P5 forward overhead panel to the ALTN positions.

SUBTASK 21-27-00-710-077

(30) Do an audible check that the alternate supply fan M1323 is not operating.

SUBTASK 21-27-00-710-078

(31) Do an audible check that the alternate supply fan M1323 is operating within 4 1/2 to 5 1/2 minutes of when the R RECIRC FAN switch was set to OFF.

SUBTASK 21-27-00-860-344

(32) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
D	1	C01444	A/C OVERBOARD EXHAUST VALVE CONT
D	2	C01445	A/C OVERBOARD EXH VALVE RECONFIG CONT

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-050-00-01

MECH | INSP

SUBTASK 21-27-00-860-345

(33) Close this circuit breaker:

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
D	1	C01444	A/C OVERBOARD EXHAUST VALVE CONT

SUBTASK 21-27-00-710-079

(34) Do an audible check that the alternate supply fan M1323 is not operating.

SUBTASK 21-27-00-710-087

(35) Do this step:

(a) Do this check that the right recirculation fan is operating:

1) If air is flowing out of the gaspers just outboard of the captain's and first officer's windshield and foot air controls, the right recirculation fan is operating.

2) If the air flow out of the gaspers is not sufficient to positively determine recirculation fan operation, then do the steps that follow:

a) Make sure that this access panel is open:

Number	Name/Location
191E	Low Pressure ECS Panel - Forward

b) Push up on the swing check valve.

c) If air is flowing out through the swing check valve, the right recirculation fan is operating.

SUBTASK 21-27-00-860-378

(36) Close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A

SUBTASK 21-27-00-860-346

(37) Push and hold the TEST switch on the P8 Cargo Fire Control Panel until the AFT red cargo fire light comes on.

SUBTASK 21-27-00-860-369

(38) Push the BELL CUTOUT switch on the Engine and APU Fire Control Panel to silence the flight compartment fire bell.

SUBTASK 21-27-00-710-088

(39) Do this check to make sure the recirculation fan is not operating:

(a) If air is not flowing out of the gaspers just outboard of the captain's and first officer's windshield and foot air controls, the right recirculation fan is not operating.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-050-00-01

MECH	INSP

SUBTASK 21-27-00-860-347

(40) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	17	C01433	EQPT COOLING LOW FLOW DETECT SUPPLY

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
C	12	C01116	EQPT COOLING SUPPLY FAN CONT-NORMAL
C	13	C01117	EQPT COOLING SUPPLY FAN CONTROL-ALTN
D	1	C01444	A/C OVERBOARD EXHAUST VALVE CONT

SUBTASK 21-27-00-860-348

(41) Close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	18	C01434	EQPT COOLING LOW FLOW DETECT EXHAUST

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
C	14	C01435	EQPT COOLING EXHAUST FAN CONT NORMAL
C	15	C01436	EQPT COOLING EXHAUST FAN CONT ALTN
D	1	C01444	A/C OVERBOARD EXHAUST VALVE CONT
D	2	C01445	A/C OVERBOARD EXH VALVE RECONFIG CONT

SUBTASK 21-27-00-710-082

(42) Do an audible check that the alternate exhaust fan M99 is operating:

SUBTASK 21-27-00-860-349

(43) Set the EQUIP COOLING SUPPLY and EXHAUST switches on the equipment cooling panel in the middle of the P5 forward overhead panel to the NORM positions.

SUBTASK 21-27-00-710-083

(44) Do an audible check that the normal exhaust fan M98 is operating:

SUBTASK 21-27-00-860-350

(45) Push and hold the TEST switch on the P8 Cargo Fire Control Panel until the FWD and AFT red cargo fire lights come on.

SUBTASK 21-27-00-710-084

(46) Do an audible check that the normal exhaust fan M98 is not operating:

SUBTASK 21-27-00-860-351

(47) Set the EQUIP COOLING SUPPLY and EXHAUST switches on the equipment cooling panel in the middle of the P5 forward overhead panel to the ALTN positions.

SUBTASK 21-27-00-710-085

(48) Do an audible check that the alternate exhaust fan M99 is not operating:

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-050-00-01

MECH | INSP

SUBTASK 21-27-00-860-352

(49) Close these circuit breakers:

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
C	15	C01355	LANDING GEAR AIR/GND SYS 2
C	16	C01356	LANDING GEAR AIR/GND SYS 1

SUBTASK 21-27-00-710-086

(50) Make sure the DCPC display shows CARGO HT VLV HIGH.

NOTE: This display indicates that the OEV is in the SMOKE position.

SUBTASK 21-27-00-860-353

(51) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
D	1	C01444	A/C OVERBOARD EXHAUST VALVE CONT

NOTE: The FWD and AFT cargo fire alarm relays R945 and R946 are no longer latched.

SUBTASK 21-27-00-860-355

(52) Do this task to return disabled airplane systems to the normal ground condition: Return the Airplane Systems Back to Their Normal On Ground Condition, AMM TASK 32-09-00-840-802.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 21-27-00-860-259

(1) Put these switches to the AUTO position:

(a) R RECIRC FAN

(b) L RECIRC FAN

SUBTASK 21-27-00-860-367

(2) Put these switches to the OFF position:

(a) L PACK

(b) R PACK

SUBTASK 21-27-00-860-261

(3) Do this task: Return the Airplane to the Ground Mode, AMM TASK 32-09-00-860-802.

SUBTASK 21-27-00-860-376

(4) Put these switches on the center panel of the forward overhead panel to the NORM position:

(a) EQUIP COOLING SUPPLY

(b) EQUIP COOLING EXHAUST

SUBTASK 21-27-00-860-366

(5) Close all circuit breakers that were opened.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-050-00-01

MECH	INSP

SUBTASK 21-27-00-410-010

(6) Close these access panels:

Number	Name/Location
117A	Electronic Equipment Access Door
191E	Low Pressure ECS Panel - Forward

SUBTASK 21-27-00-860-262

(7) Remove electrical power if it is not necessary. To remove electrical power, do this task: Remove Electrical Power, AMM TASK 24-22-00-860-812.

——— END OF TASK ———

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		OUTFLOW VALVE MOTOR, SELECTOR PANEL, INDICATOR, FEED BACK MODULE			**21-060-00-01**
DATE	TASK **OPERATIONAL**				RELATED CARD
TAIL NUMBER	WORK AREA **CREW CABIN**	VERSION **1.1**	THRESHOLD **12000 FH**	REPEAT **12000 FH**	APPLICABILITY AIRPLANE: **ALL** ENGINE: **ALL**
STATION	SKILL **AIRPL**				
		ACCESS			ZONE **211 212**

Operationally check the outflow valve manual mode (motor), selector panel, indicator, indicator feedback module.

A. References

Reference	Title
AMM 24-22-00-860-811	Supply Electrical Power (P/B 201)
AMM 24-22-00-860-812	Remove Electrical Power (P/B 201)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-060-00-01

MECH | INSP

TASK 21-31-00-710-801

1. Pressurization System Manual Mode Test

(Figure 1)

A. General

(1) This task does an operational test of these components:

(a) The outflow valve manual mode motor

(b) The outflow valve selector panel

(c) The outflow valve position indicator

(d) The outflow valve feedback module for the outflow valve position indicator

B. Prepare for the Test

SUBTASK 21-31-00-860-001

(1) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811.

SUBTASK 21-31-00-860-002

(2) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
F	1	C01273	PRESSURIZATION CONTROL LCD LTG
F	3	C01270	PRESSURIZATION CONTROL AUTO 1
F	5	C01271	PRESSURIZATION CONTROL AUTO 2
F	6	C01269	PRESSURIZATION CONTROL MANUAL
F	7	C01272	PRESSURIZATION CONTROL IND

C. Pressurization System Manual Mode Test

SUBTASK 21-31-00-860-003

CAUTION: MAKE SURE ONE OF THE EXTERNALS DOORS OR WINDOWS IS OPEN BEFORE YOU CONTINUE WITH THE TEST. UNCONTROLLED PRESSURIZATION OF THE CABIN CAN OCCUR WHEN THE OUTFLOW VALVE IS CLOSED. THIS CAN CAUSE DAMAGE TO EQUIPMENT.

(1) Make sure at least one exterior door or window is open or that the L and R PACK switches on the P5 forward overhead panel are in the OFF position.

SUBTASK 21-31-00-860-004

(2) Set the mode selector switch on the P5-6 cabin pressure control module to the MAN position.

SUBTASK 21-31-00-710-001

(3) Make sure the MANUAL light on the P5-10 air conditioning module comes on.

SUBTASK 21-31-00-860-005

(4) Set the LIGHTS switch on the P2 center instrument panel to DIM.

SUBTASK 21-31-00-710-002

(5) Make sure the MANUAL light becomes dim.

MECH	INSP

SUBTASK 21-31-00-860-006

(6) Set the LIGHTS switch on the P2 center instrument panel to BRT.

SUBTASK 21-31-00-710-003

(7) Make sure the MANUAL light becomes bright.

SUBTASK 21-31-00-710-004

(8) Push and hold the CLOSE/OPEN toggle switch on the pressure control module to the CLOSE position until the outflow valve is fully closed.

SUBTASK 21-31-00-710-005

(9) Make sure the outflow valve is fully closed.

SUBTASK 21-31-00-710-006

(10) Make sure the needle on the position indicator gage for the outflow valve is within approximately two needle widths of the fully closed mark.

SUBTASK 21-31-00-710-007

(11) Push and hold the CLOSE/OPEN toggle switch on the pressure control module to the OPEN position until the outflow valve is fully open.

SUBTASK 21-31-00-710-008

(12) Make sure the outflow valve is fully open.

SUBTASK 21-31-00-710-009

(13) Make sure the needle on the position indicator gage for the outflow valve is within approximately two needle widths of the fully open mark.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 21-31-00-860-037

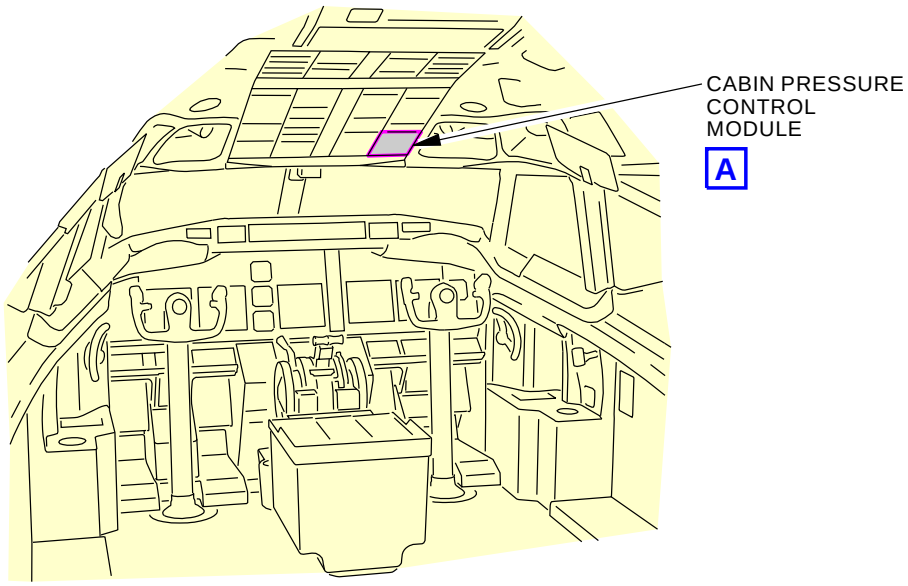
(1) Make sure the mode selector switch on the cabin pressurization control panel, P5-6, is returned to the AUTO position.

SUBTASK 21-31-00-860-007

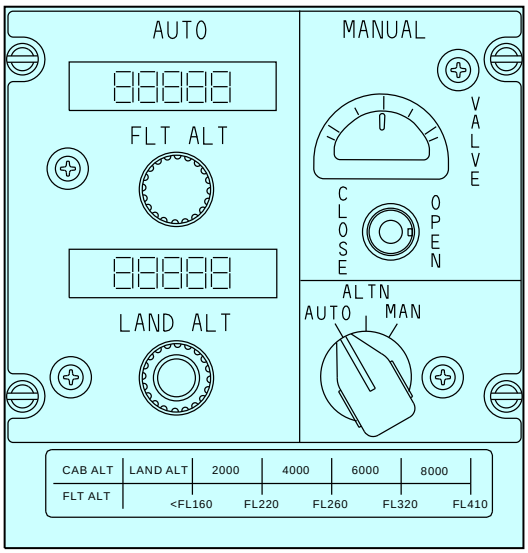
(2) Do this task: Remove Electrical Power, AMM TASK 24-22-00-860-812.

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-060-00-01



FLIGHT COMPARTMENT



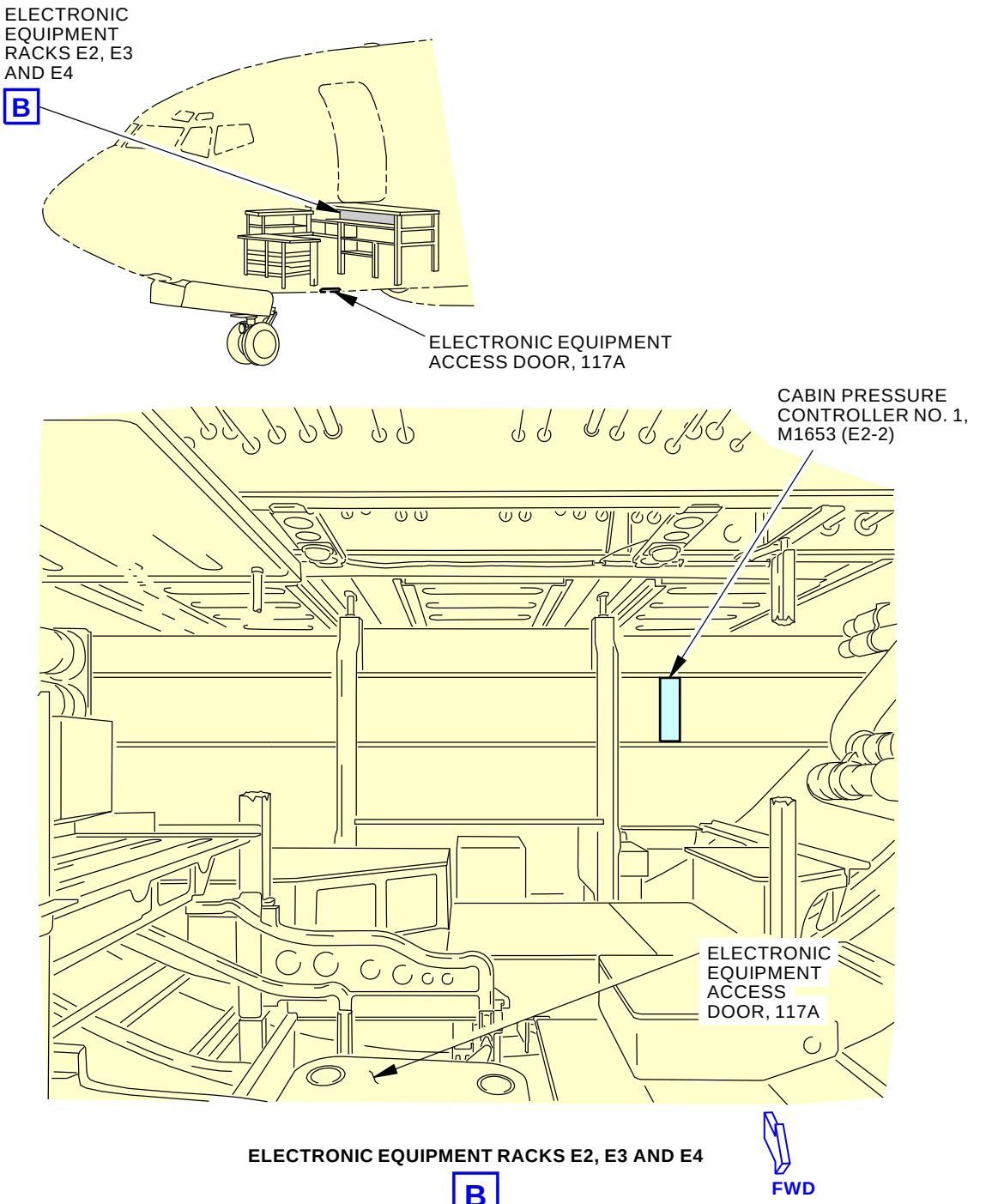
CABIN PRESSURE CONTROL MODULE

A

2177689 S0000480354_V2

Cabin Pressure Control System Test
Figure 1 (Sheet 1 of 4)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-060-00-01



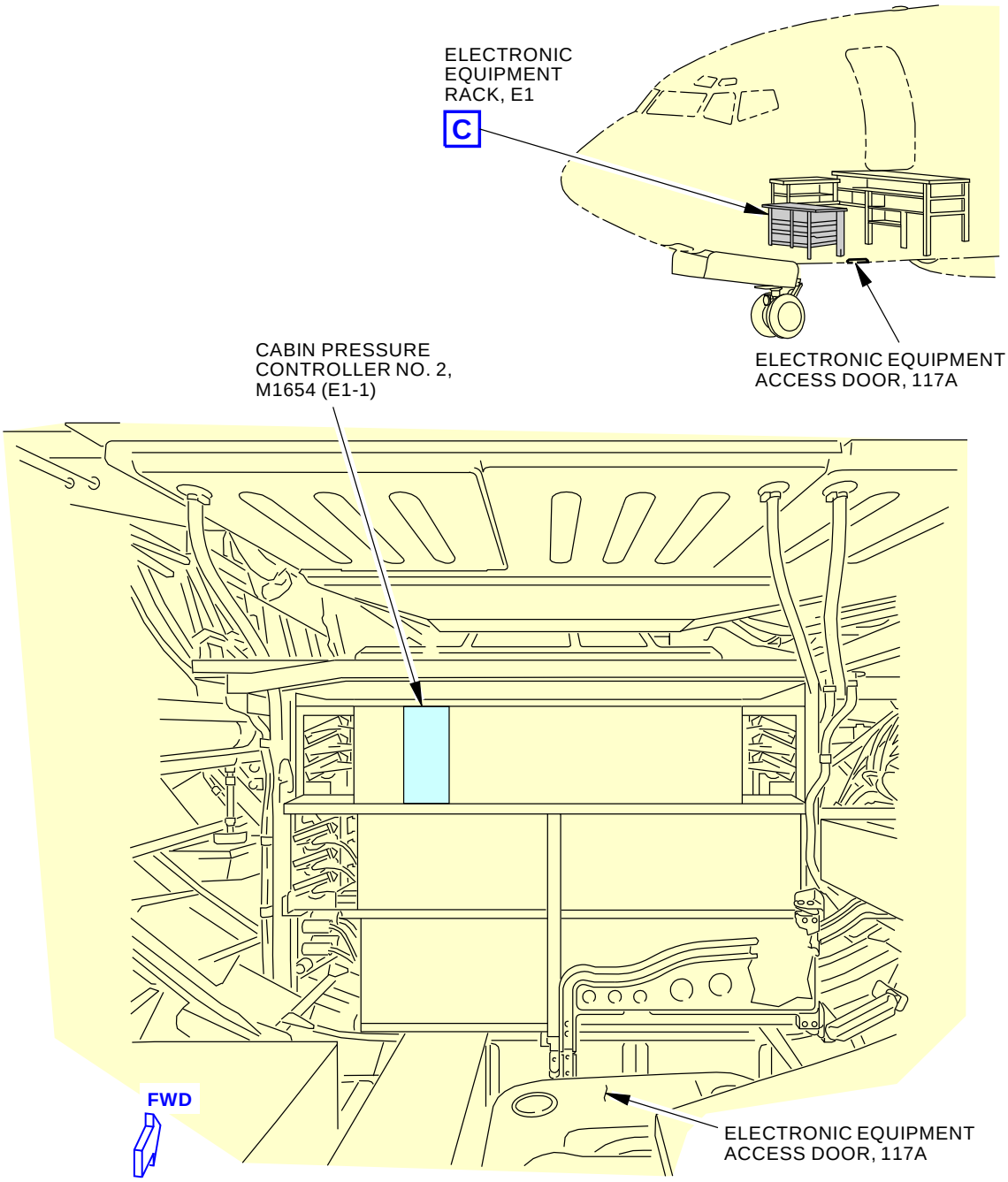
ELECTRONIC EQUIPMENT RACKS E2, E3 AND E4

B

D64505 S0000161889_V2

Cabin Pressure Control System Test
Figure 1 (Sheet 2 of 4)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-060-00-01



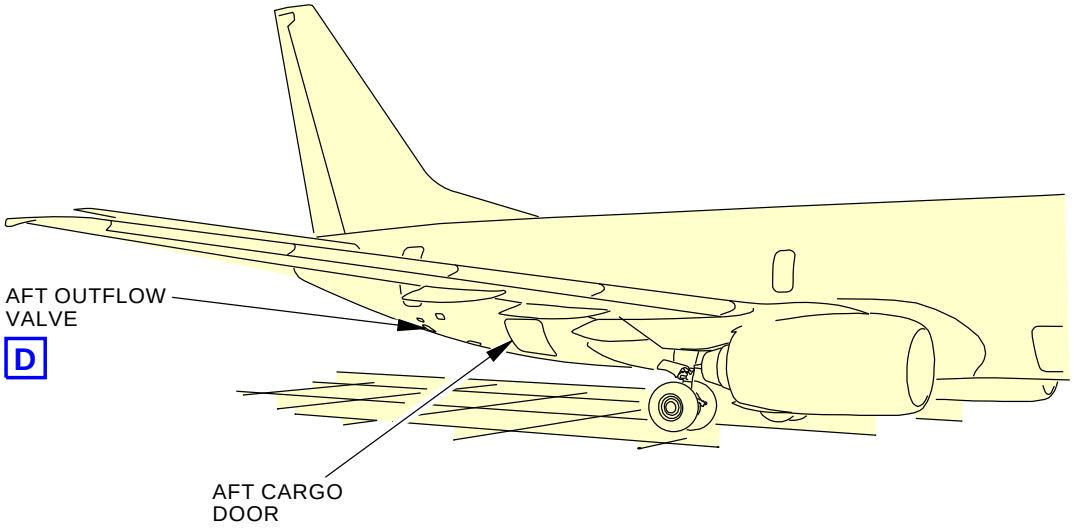
ELECTRONIC EQUIPMENT RACK, E1

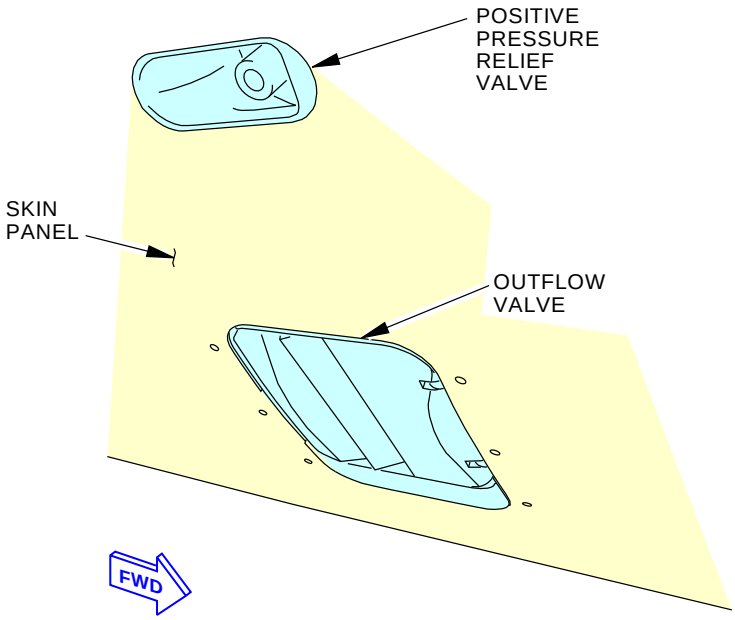
C

D64506 S0000161890_V2

Cabin Pressure Control System Test
Figure 1 (Sheet 3 of 4)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-060-00-01





OUTFLOW VALVE (EXTERIOR VIEW)

D

D64507 S0000161891_V2

Cabin Pressure Control System Test
Figure 1 (Sheet 4 of 4)

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		POSITIVE PRESSURE RELIEF VALVES			**21-070-00-01**
DATE	TASK **FUNCTIONAL**				RELATED CARD
TAIL NUMBER	WORK AREA **AFT CARGO**	VERSION **1.1**	THRESHOLD **17000 FH**	REPEAT **17000 FH**	APPLICABILITY AIRPLANE: **ALL** ENGINE: **ALL**
STATION	SKILL **AIRPL**				
		ACCESS			ZONE **146**

Functionally check the positive pressure relief valves. (Note: The Boeing and the Hamilton Sundstrand test equipment are equivalent to each other, either test equipment can be used).

A. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-6692	Vacuum Tank - Pressure Relief Valve Tester Part #: A21010-203 Supplier: 81205 Part #: GS15047-1 Supplier: 99167 Opt Part #: A21010-187 Supplier: 81205 Opt Part #: A21010-188 Supplier: 81205 Opt Part #: A21010-189 Supplier: 81205 Opt Part #: A21010-190 Supplier: 81205
STD-1114	Air Source - Regulated, Dry, Filtered 0-150 PSIG with Pressure Gauge range 100 PSIG, 1 PSIG increment and +/-1 psi minimum accuracy

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-070-00-01

MECH	INSP

TASK 21-32-01-700-802

1. Positive Pressure Relief Valve - System Test with the Use of Boeing Test Equipment
(Figure 1)

A. Prepare for the Test

SUBTASK 21-32-01-210-001

(1) Make sure there is no blockage or unwanted materials at these locations:

(a) The fuselage skin in the area of the relief valve.

(b) The overboard vent tube opening in the center of each relief valve.

B. Positive Pressure Relief Valve - System Test

NOTE: This test can only be done on one relief valve at a time. Do the test on the outboard relief valve, then do the test again on the inboard relief valve.

SUBTASK 21-32-01-480-001

(1) Do these steps to connect the pressure relief valve tester, SPL-6692 to the relief valve:

(a) Make sure all the valves on the pressure relief valve tester, SPL-6692 are closed.

(b) Connect the Regulated Dry Filtered Air Source, STD-1114 to the quick-disconnect connection on the pressure relief valve tester, SPL-6692.

(c) Adjust the air control valve on the pressure relief valve tester, SPL-6692 until the indication on the pressure gage is 70 +/-10 psi (482.6 ±69 kPa).

(d) Adjust the vacuum regulator valve until the differential pressure is approximately 2.0 psi (4.07 inches Hg) (14 kPa).

NOTE: Turn the vacuum regulator valve counter-clockwise to increase the vacuum (differential pressure). The arrow on the vacuum regulator valve indicates an increase of pressure not vacuum.

(e) Put and hold the vacuum head assembly over the relief valve, and open the vacuum head assembly valve.

1) Make sure the vacuum head assembly is sealed to the airplane skin.

SUBTASK 21-32-01-730-003

(2) Do these steps to find the differential pressure when the relief valve opens:

(a) Adjust the vacuum regulator valve so the indication on the vacuum rate gage does not exceed 2.4 psi/minute (16.5 kPa/minute).

WARNING: THE VACUUM HEAD ASSEMBLY MUST BE MANUALLY HELD AGAINST THE AIRPLANE FUSELAGE WHEN THE DIFFERENTIAL PRESSURE GAGE INDICATION IS 8.25 PSID (56.88 KPA). WHEN THE VALVE OPENS, THE VACUUM HEAD ASSEMBLY CAN FALL FROM THE FUSELAGE SURFACE. INJURY TO PERSONNEL OR DAMAGE TO EQUIPMENT COULD RESULT.

(b) When the differential pressure gage shows 8.25 psid (56.88 kPa), manually hold the vacuum head assembly against the fuselage.

(c) When the differential pressure gage shows 8.25 psid (56.88 kPa), adjust the vacuum regulator valve to increase the differential pressure in 0.05 psi (.345 kPa) increments.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-070-00-01

MECH	INSP

(d) Stop the increase of vacuum for 10 seconds between each increase of 0.05 psid (.345 kPa).

(e) Continue the intermittent vacuum increases of 0.05 psid (.345 kPa) until the relief valve opens.

(f) Monitor the indication on the differential pressure gage when the relief valve opens.

NOTE: The indication that the relief valve has opened is seen on the differential pressure gage when the pressure starts to decrease.

(g) Make sure that the valve opens at a differential pressure of 8.69 to 9.09 psid (59.92 - 62.67 kPa) (17.7 to 18.5 inches Hg).

NOTE: When the valve opens the differential pressure will decrease to near 0 psid.

(h) If the relief valve opens at a differential pressure more than 9.09 psid (62.67 kPa) (18.5 inches Hg), make sure that there are no leaks at any of the tubing connections on the vacuum tank assembly.

(i) Adjust the vacuum regulator valve to increase the differential pressure to approximately 7.5 to 7.0 psig (51.71 - 48.26 kPa) (15.04 to 14.02 inches Hg) at a rate not more than 2.00 psig/minute (13.79 kPa/minute) (4.07 inches Hg/minute).

1) Make sure the relief valve closes.

NOTE: The indication that the relief valve has closed is seen on the differential pressure gage when the gage stops, and then starts to increase and then becomes stable.

SUBTASK 21-32-01-080-001

(3) Adjust the vacuum regulator valve fully clockwise and reduce the differential pressure to 0 psig (0 inches Hg), at a rate of 4.0 psig/min (27.58 kPa/min) (8.14 inches Hg/min) or slower.

SUBTASK 21-32-01-080-002

(4) Close the vacuum head assembly valve and remove the vacuum head assembly.

SUBTASK 21-32-01-730-004

(5) Do the test for the other relief valve.

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-070-00-01

TASK 21-32-01-700-801

MECH | INSP

2. Positive Pressure Relief Valve - System Test with the Use of Hamilton Sundstrand Test Equipment

(Figure 2)

A. Prepare for the Test

SUBTASK 21-32-01-840-002

(1) Make sure there is no blockage or unwanted materials at these locations:

(a) The fuselage skin in the area of the relief valves.

(b) The overboard vent tube opening in the center of each relief valve.

SUBTASK 21-32-01-840-003

(2) Close the pressure regulator on the pressure relief valve tester, SPL-6692.

SUBTASK 21-32-01-840-001

(3) Connect the Regulated Dry Filtered Air Source, STD-1114 to the pressure regulator of the pressure relief valve tester, SPL-6692.

B. Positive Pressure Relief Valve - System Test

NOTE: This test can only be done on one relief valve at a time. Do the test on the outboard relief valve, then do the test again on the inboard relief valve.

SUBTASK 21-32-01-730-001

(1) Do these steps to do a test of the positive pressure relief valve:

(a) Put the pressure relief valve tester, SPL-6692 on the relief valve on the fuselage.

(b) Put the locating crossbar on the pressure relief valve tester, SPL-6692 forward of the deflector tube on the relief valve and hold the fixture in position.

NOTE: The fixture is installed to make sure that the test fixture gasket is not on the opening in the valve.

(c) Open the air pressure regulator on the pressure relief valve tester, SPL-6692 to start the flow of air.

(d) Adjust the air pressure regulator so that the indication on the vacuum gage increases 2.21 psi/minute (15.24 kPa/minute) until the vacuum gage shows 7.76 psia (53.50 kPa).

WARNING: MANUALLY HOLD THE TEST FIXTURE AGAINST THE FUSELAGE. WHEN THE VALVE OPENS, IT CAN CAUSE THE TEST FIXTURE TO FALL. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

(e) When the vacuum gage shows 7.76 psia (53.50 kPa), manually hold the test fixture against the airplane fuselage.

(f) When the vacuum gage shows 7.76 psia (53.50 kPa), adjust the air pressure regulator to increase the vacuum in 0.05 psi (0.34 kPa) increments.

(g) Stop the increase of vacuum for 10 seconds between each increase of 0.05 psi (0.34 kPa).

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-070-00-01

MECH	INSP

(h) Continue the intermittent vacuum increases of 0.05 psi (0.34 kPa) until the valve opens as noted by these indications:

1) The cracking point pressure of the valve occurs when the vacuum gauge needle stops increasing, then suddenly decreases slightly, then increases slightly again and then stabilizes.

(i) Monitor the indication on the vacuum gage when the valve opens.

(j) Make sure the valve opens between 8.69 psia (59.92 kPa) to 9.09 psia (62.67 kPa) (17.7 to 18.5 inches Hg).

(k) If the pressure relief valve cracks open at a vacuum gauge indication greater than 9.09 psia (62.67 kPa) (18.5 inches of Hg), make sure that there are no leaks anywhere on the valve test fixture.

(l) Adjust the vacuum regulator valve to increase the differential pressure to approximately 7.5 psid (51.7 kPa) to 7.0 psid (48.3 kPa) (15.04 to 14.02 inches Hg) at a rate not more than 2.00 psig/minute (13.79 kPa/minute) (4.07 inches Hg/minute).

1) Make sure the relief valve closes.

NOTE: The indication that the relief valve has closed is seen on the differential pressure gauge when the gauge stops, and then starts to increase and then becomes stable.

(m) Adjust the air pressure regulator to reduce the indication on the vacuum gage to 0 psig (0 kPa) (0 inches Hg) at a rate of 4.0 psig/minute (27.58 kPa/minute) (8.14 inches Hg/minute) or slower.

(n) Close the pressure regulator on the pressure relief valve tester, SPL-6692.

(o) Remove the pressure relief valve tester, SPL-6692 from the airplane.

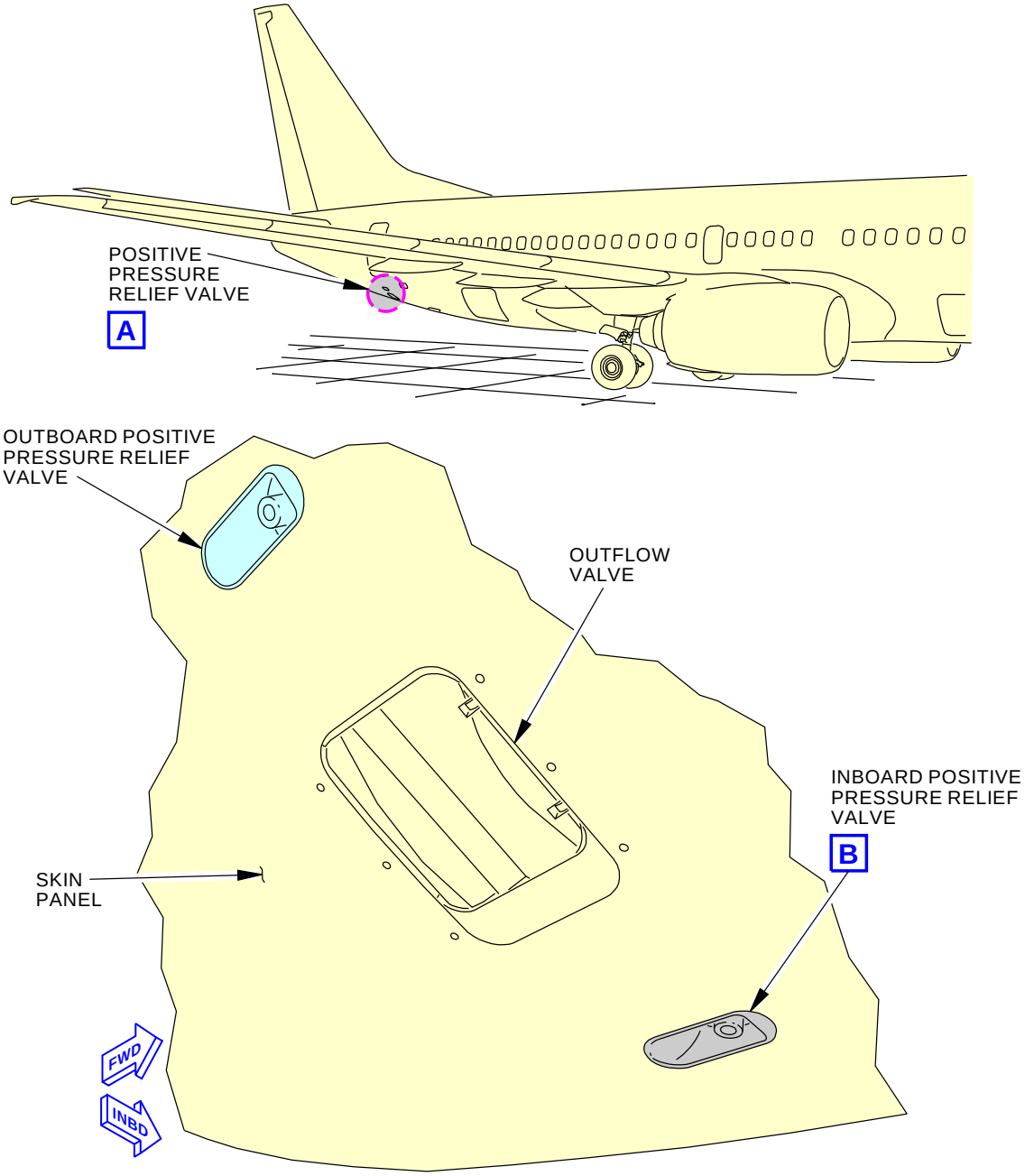
(p) Disconnect the Regulated Dry Filtered Air Source, STD-1114 from the pressure regulator.

SUBTASK 21-32-01-730-002

(2) Do the test for the other relief valve.

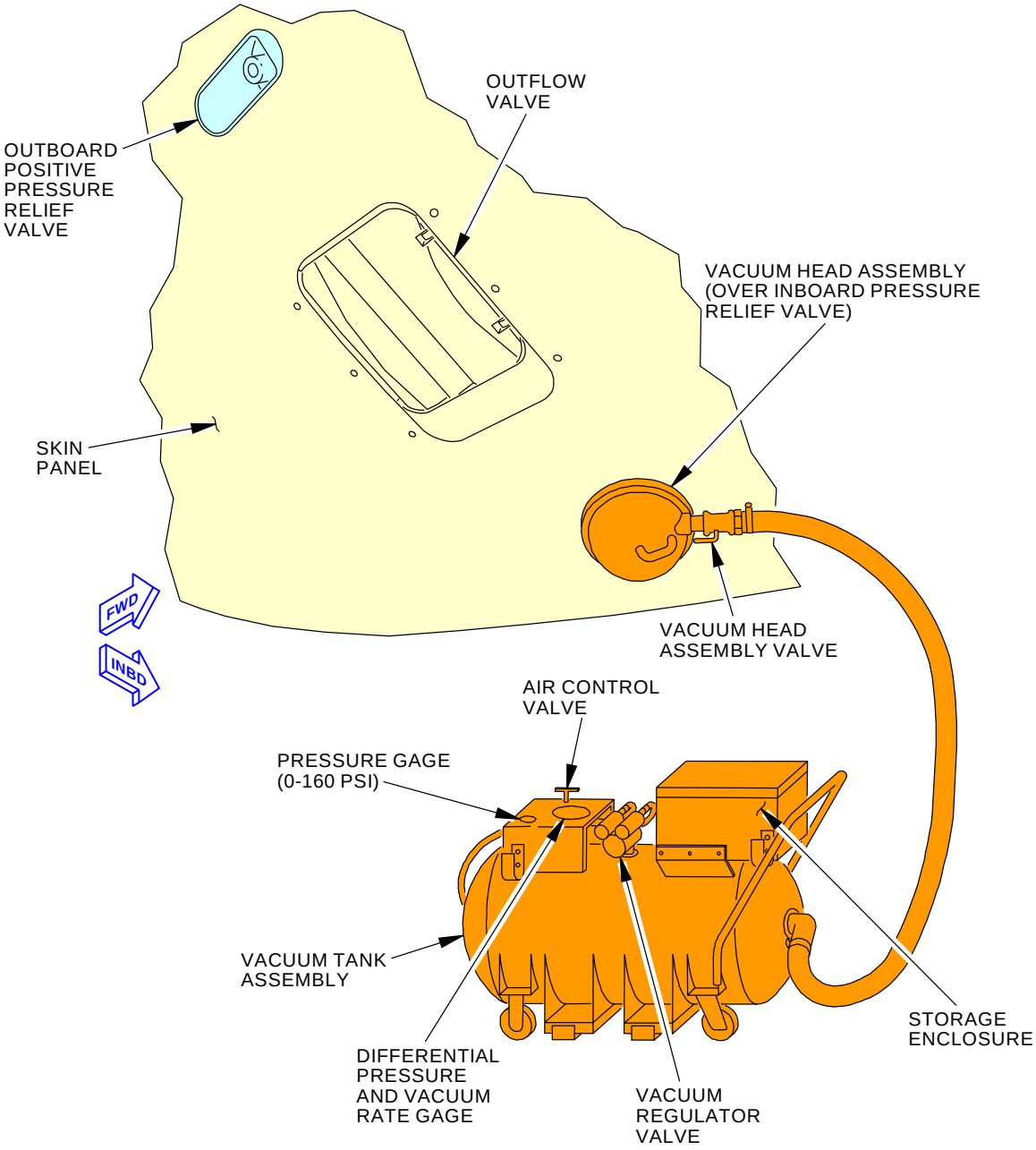
——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-070-00-01



Positive Pressure Relief Valve Test Setup
Figure 1 (Sheet 1 of 2)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-070-00-01



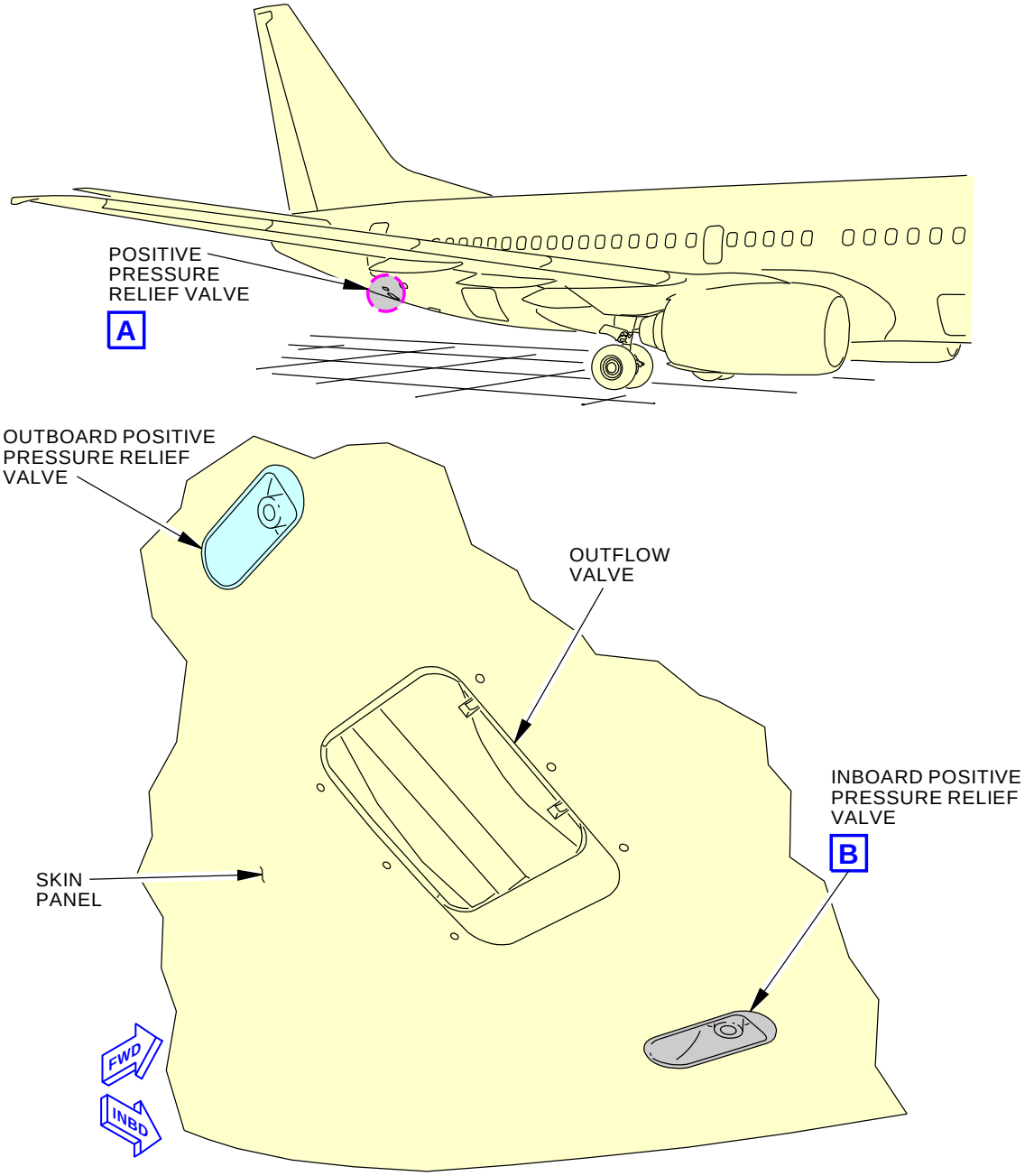
A21010 VACUUM TANK - RELIEF VALVE TEST

B

G23340 S0006562775_V2

Positive Pressure Relief Valve Test Setup
Figure 1 (Sheet 2 of 2)

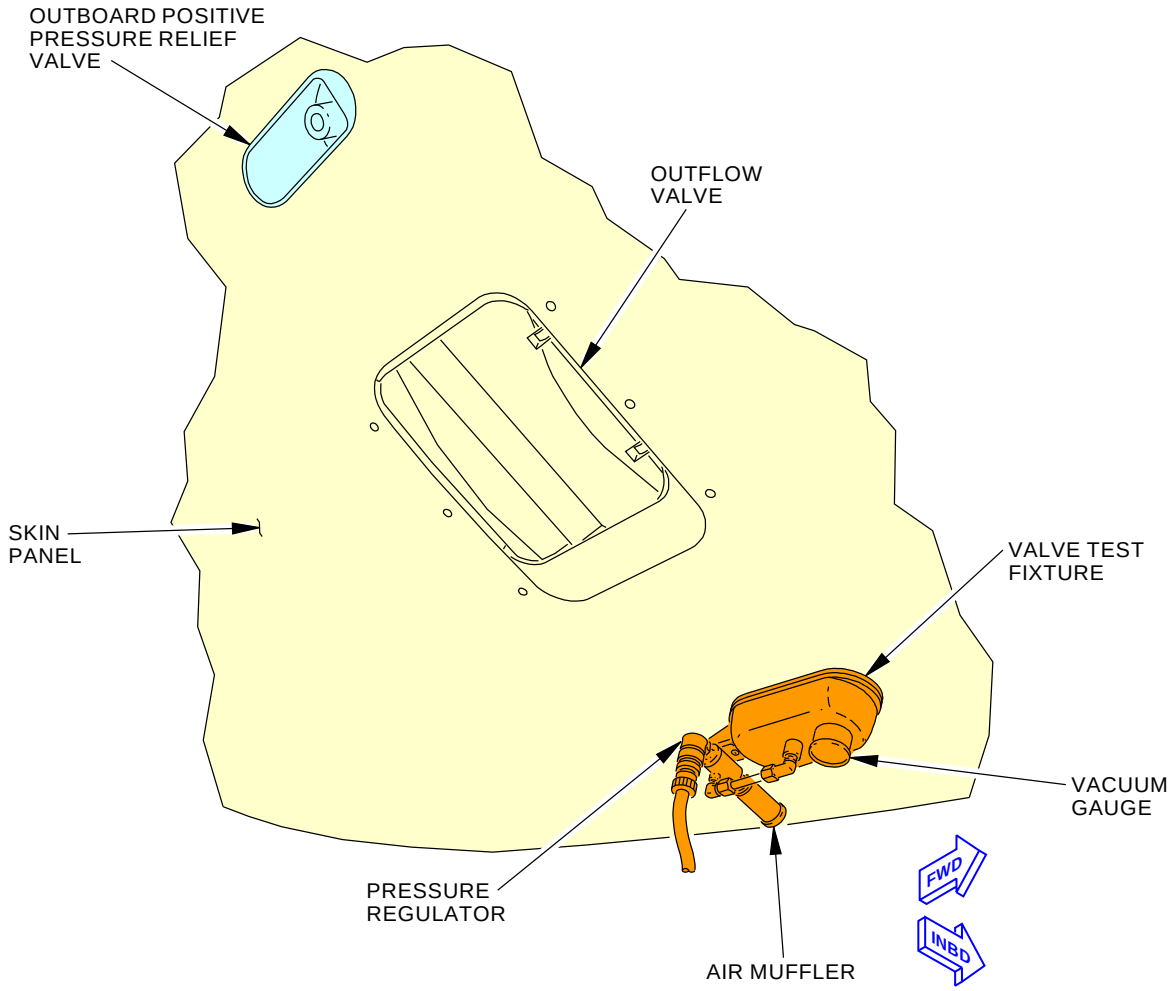
DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-070-00-01



G23275 S0006562774_V2

Positive Pressure Relief Valve Test Setup
Figure 2 (Sheet 1 of 2)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-070-00-01



GS15047-1 POSITIVE RELIEF VALVE TEST FIXTURE

B

L03777 S0006562776_V2

Positive Pressure Relief Valve Test Setup
Figure 2 (Sheet 2 of 2)

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		POSITIVE PRESSURE RELIEF VALVES FILTERS			**21-080-00-01**
DATE	TASK **REPLACE**				RELATED CARD
TAIL NUMBER	WORK AREA **AFT CARGO**	VERSION **1.1**	THRESHOLD **20000 FH**	REPEAT **20000 FH**	APPLICABILITY AIRPLANE: **ALL** ENGINE: **ALL**
STATION	SKILL **AIRPL**				
		ACCESS			ZONE **146**

Replace the positive pressure relief valve filters.

A. References

Reference	Title
AMM 25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
AMM 25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
AMM 38-11-01-000-801	Water Tank Removal (P/B 401)
AMM 38-11-01-400-801	Water Tank Installation (P/B 401)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-080-00-01

MECH	INSP

TASK 21-32-02-000-801

1. Positive Pressure Relief Valve Filter Removal

(Figure 1)

A. Prepare for the Removal

SUBTASK 21-32-02-010-001

(1) Remove the cargo compartment liner on the aft bulkhead of the aft cargo compartment to get access to the relief valves. To remove the aft bulkhead liner, do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, AMM TASK 25-52-19-000-801.

SUBTASK 21-32-02-010-004

(2) If necessary, you can remove the potable water tank to gain access to the inboard relief valve filter, do this task: (Water Tank Removal, AMM TASK 38-11-01-000-801).

B. Positive Pressure Relief Valve Filter Removal

SUBTASK 21-32-02-020-001

(1) Remove the cover [4] from the top of the positive pressure relief valve [1].

SUBTASK 21-32-02-020-002

(2) Remove and discard the filter [3] and the packing [2].

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-080-00-01

MECH | INSP

TASK 21-32-02-400-801

2. Positive Pressure Relief Valve Filter Installation

(Figure 1)

A. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Packing	21-32-01-01-020	AKS ALL
3	Filter	21-32-01-01-025	AKS ALL
4	Cover	21-32-01-01-015	AKS ALL

B. Procedure

SUBTASK 21-32-02-420-001

(1) Install a new filter [3] and packing [2] in the top of the positive pressure relief valve [1].

SUBTASK 21-32-02-420-002

(2) Install and turn the cover [4] until it snaps into position.

C. Put the Airplane Back to its Usual Condition

SUBTASK 21-32-02-410-004

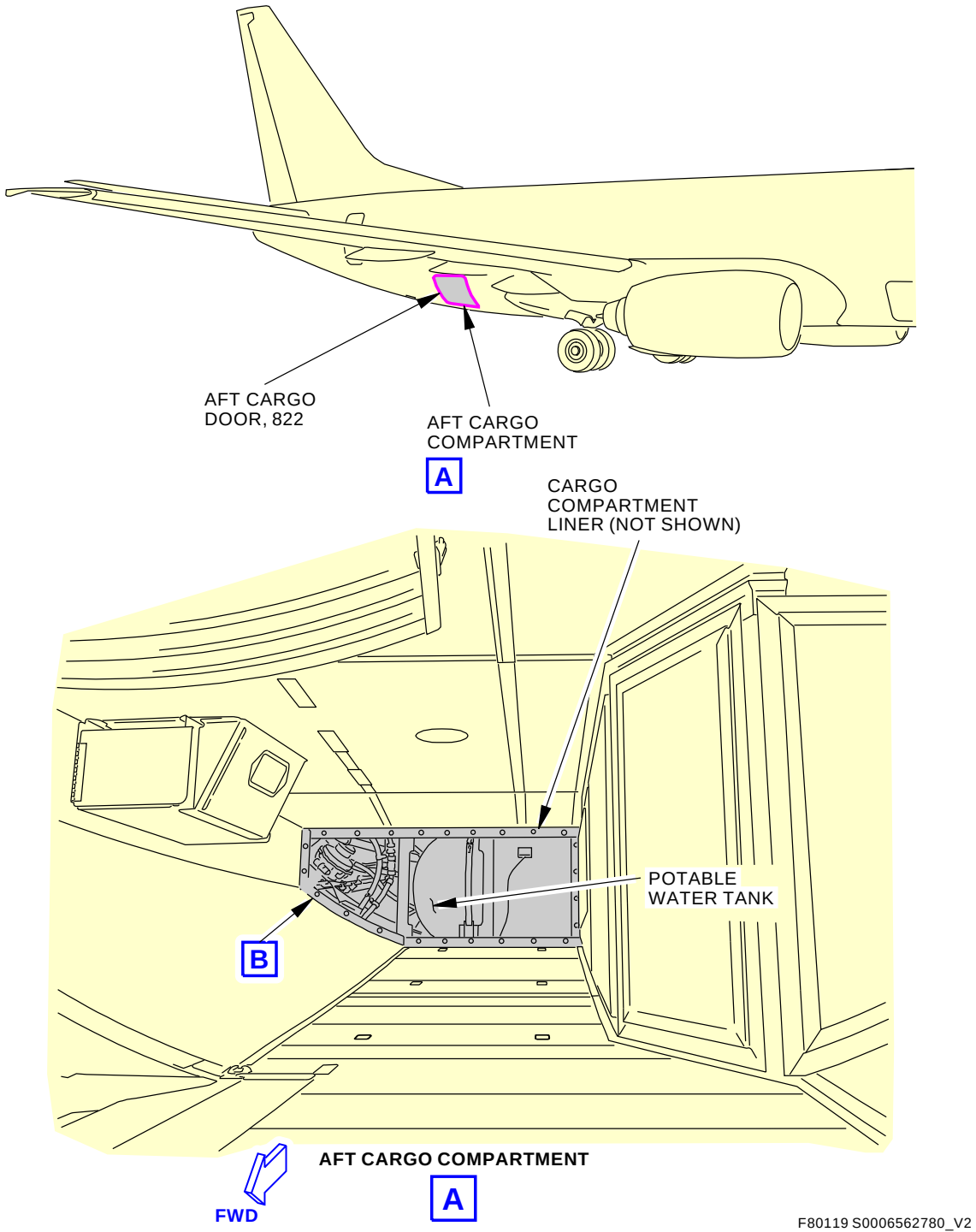
(1) If the potable water tank was removed, do this task: (Water Tank Installation, AMM TASK 38-11-01-400-801).

SUBTASK 21-32-02-410-001

(2) To install the aft bulkhead liner, do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, AMM TASK 25-52-19-400-801.

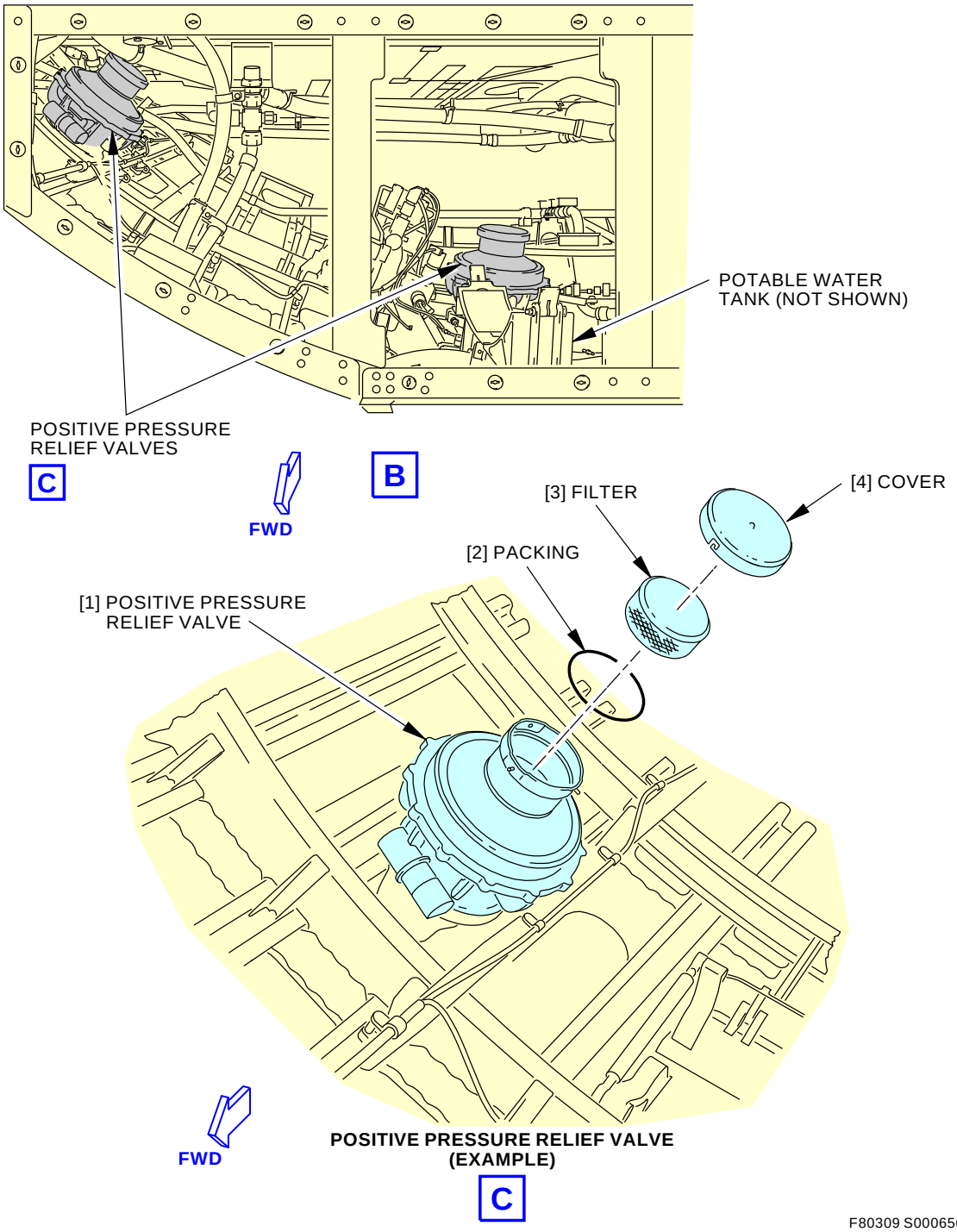
——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-080-00-01



Positive Pressure Relief Valve Filter Installation
Figure 1 (Sheet 1 of 2)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-080-00-01



Positive Pressure Relief Valve Filter Installation
Figure 1 (Sheet 2 of 2)

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		NEGATIVE PRESSURE RELIEF DOOR			**21-090-00-01**
DATE	TASK **FUNCTIONAL**				RELATED CARD
TAIL NUMBER	WORK AREA **AFT CARGO**	VERSION **1.1**	THRESHOLD **10 YR**	REPEAT **10 YR**	APPLICABILITY AIRPLANE: **ALL** ENGINE: **ALL**
STATION	SKILL **AIRPL**				
		ACCESS			ZONE **146**

Functionally check the negative pressure relief door.

A. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
STD-753	Scale - Push/Pull, 0-25 pound (0-11 kilogram) Capacity, 1/4 pound (113 gram) Accuracy

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-090-00-01

MECH	INSP

TASK 21-32-03-700-801

1. Negative Pressure Relief Valve Adjustment/Test

A. Procedure

SUBTASK 21-32-03-480-001

(1) On the external surface of the airplane, hold the push/pull scale 0-25 pound (0-11 kilogram), STD-753 against the relief valve as shown in View A-A Figure 1.

(a) Put the push/pull scale 0-25 pound (0-11 kilogram), STD-753 at approximately the center of the relief valve door and 2.92 ± 0.20 inches (74.2 ± 5.1 mm) above the lower edge of the relief valve door.

SUBTASK 21-32-03-720-002

(2) Slowly push the push/pull scale 0-25 pound (0-11 kilogram), STD-753 against the relief valve door.

(a) Keep the push/pull scale 0-25 pound (0-11 kilogram), STD-753 at approximately a 90° angle to the relief valve door.

SUBTASK 21-32-03-720-003

(3) Make sure the relief valve door starts to open when the push/pull scale 0-25 pound (0-11 kilogram), STD-753 shows between 4 and 8 pounds (17.8 and 35.8 newtons).

SUBTASK 21-32-03-720-004

(4) Continue to push the relief valve door to the full open position.

(a) Make sure the door moves smoothly without any binding.

SUBTASK 21-32-03-720-005

(5) Make sure the push/pull scale 0-25 pound (0-11 kilogram), STD-753 shows between 8 and 10.5 pounds (35.8 and 46.7 newtons) when the relief valve door is in the full open position.

NOTE: The door will be at an 80° angle in the full open position.

SUBTASK 21-32-03-720-006

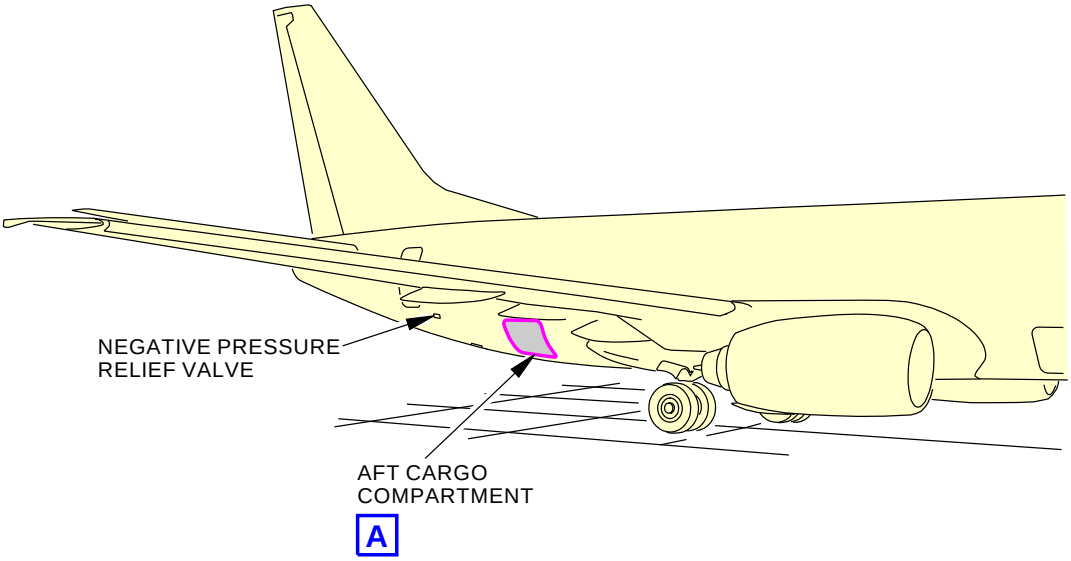
(6) Slowly release the relief valve door until it is in the closed position.

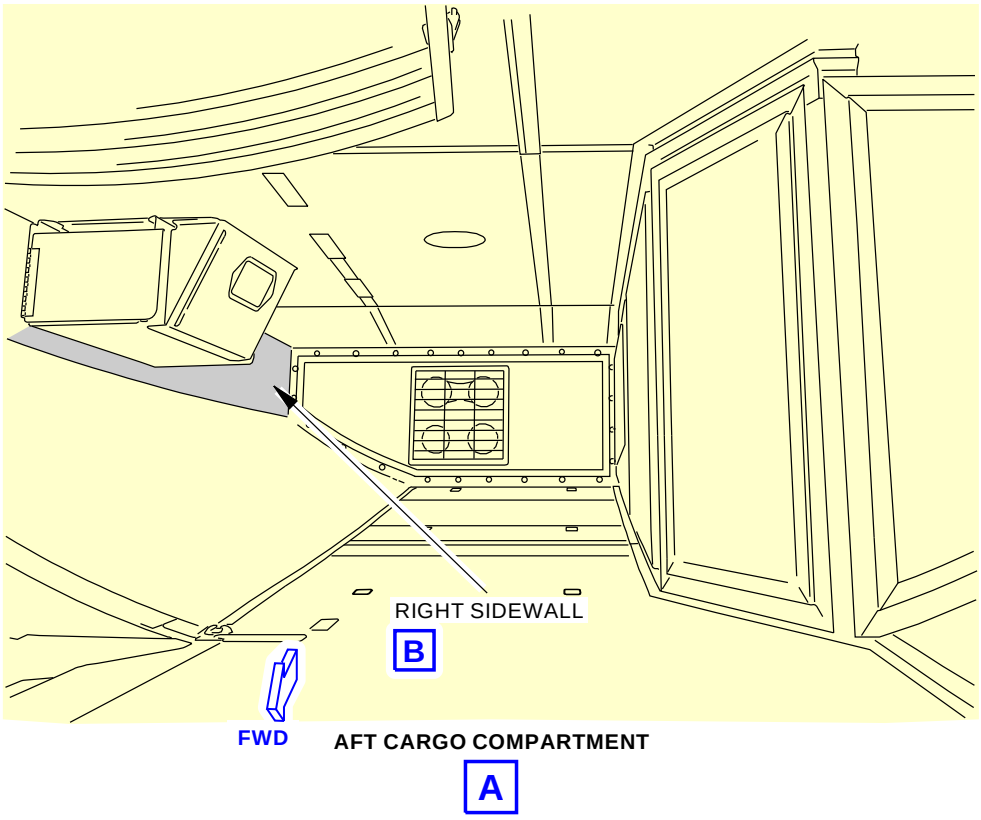
SUBTASK 21-32-03-080-001

(7) Remove the push/pull scale 0-25 pound (0-11 kilogram), STD-753.

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-090-00-01

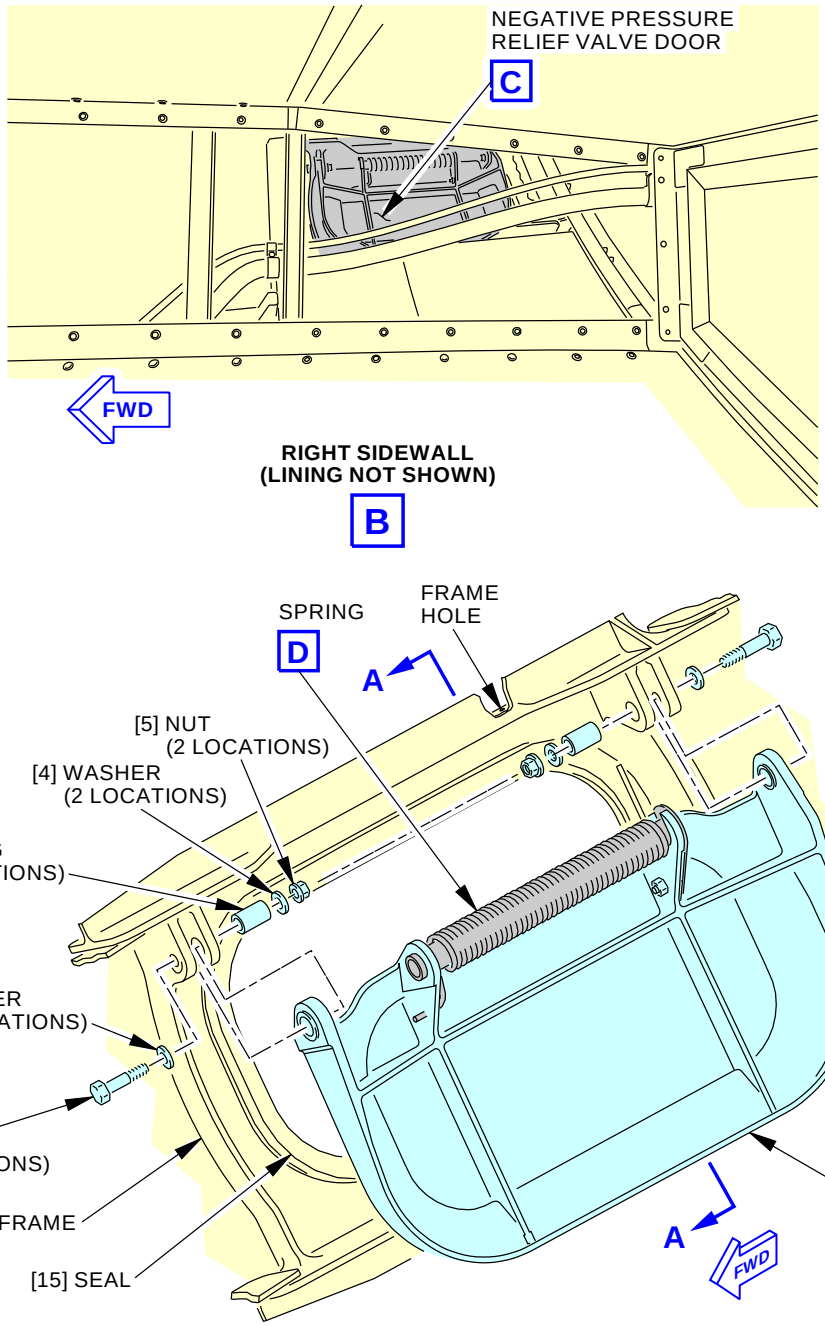




F64816 S0006562787_V3

Negative Pressure Relief Valve Installation
Figure 1 (Sheet 1 of 3)

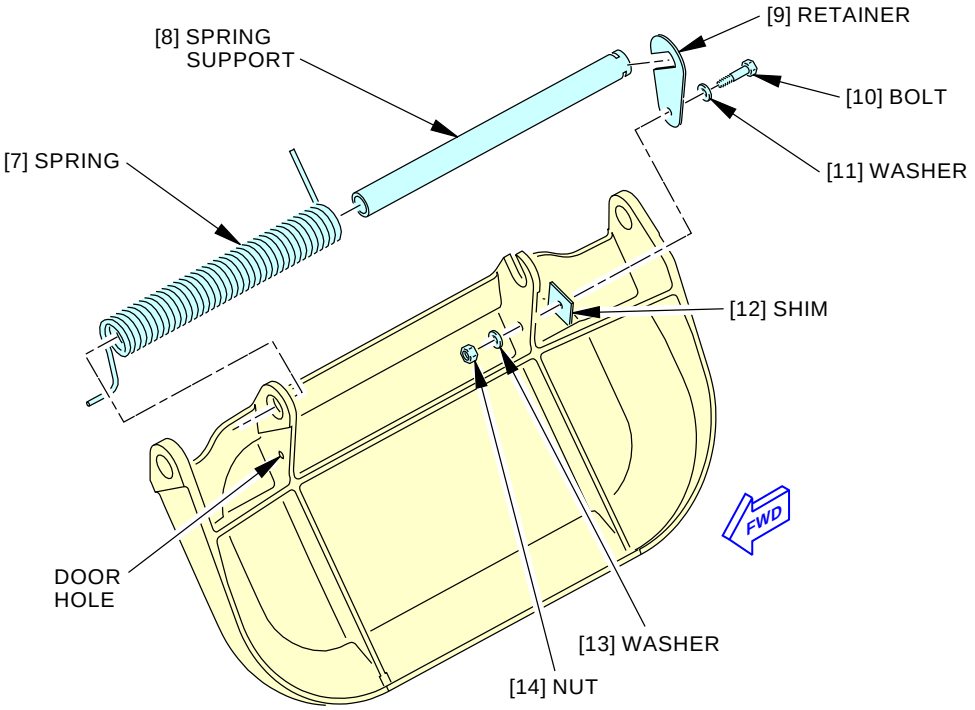
DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-090-00-01



F64831 S0006562789_V3

Negative Pressure Relief Valve Installation
Figure 1 (Sheet 2 of 3)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-090-00-01



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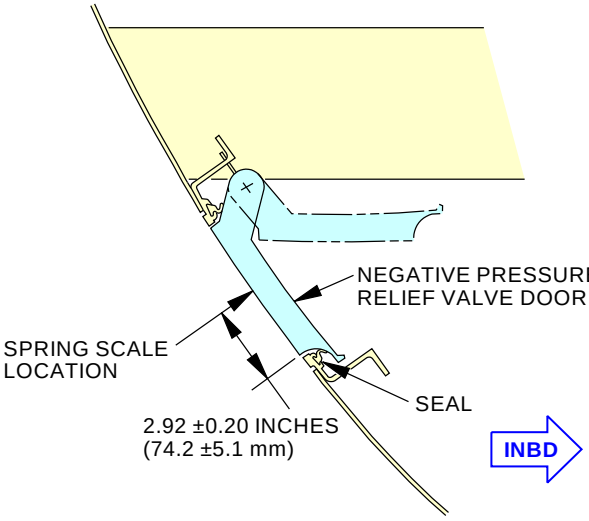

A-A

F64837 S0006562790_V3

Negative Pressure Relief Valve Installation
Figure 1 (Sheet 3 of 3)

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		PRIMARY AND SECONDARY HEAT EXCHANGERS			**21-100-00-01**
DATE	TASK **RESTORE**				RELATED CARD
TAIL NUMBER	WORK AREA **AC DIST BAY**	VERSION **1.1**	THRESHOLD **2000 FC**	REPEAT **2000 FC**	APPLICABILITY AIRPLANE: **ALL** ENGINE: **ALL**
STATION	SKILL **AIRPL**				
		ACCESS **192BL 192BR 192CL 192CR 192DR**			ZONE **131 132**

Clean the primary and secondary heat exchangers.

A. References

Reference	Title
AMM 21-00-00-800-803	Supply Conditioned Air with a Cooling Pack (P/B 201)
AMM 21-00-00-800-804	Remove Conditioned Air Supplied by a Cooling Pack (P/B 201)
AMM 21-51-24-000-801	Ram Air Ducts Removal (P/B 401)
AMM 21-51-24-400-801	Ram Air Ducts Installation (P/B 401)
AMM 24-22-00-860-812	Remove Electrical Power (P/B 201)
AMM 36-00-00-860-803	Supply Pressure to the Pneumatic System with the APU (P/B 201)
AMM 36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-13921	Backflush Equipment - Bleed Air Hose Part #: C21003-135 Supplier: 81205
SPL-1607	Equipment - Backflush, A/C Pack Heat Exchanger Part #: C21003-155 Supplier: 81205 Part #: C21003-156 Supplier: 81205 Opt Part #: C21003-133 Supplier: 81205 Opt Part #: C21003-134 Supplier: 81205 Opt Part #: C21003-80 Supplier: 81205 Opt Part #: C21003-81 Supplier: 81205 Opt Part #: C21003-82 Supplier: 81205
SPL-2462	Deactivator - Check Valve Part #: C21006-7 Supplier: 81205 Opt Part #: C21006-1 Supplier: 81205 Opt Part #: PF80-012-500 Supplier: 053H3
STD-3926	Water Source - Cold, Regulated, 0 to 60 PSIG

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-100-00-01

MECH	INSP

TASK 21-51-03-000-801

1. Heat Exchanger and Plenum/Diffuser Assembly Cleaning

(Figure 1)

A. General

(1) You can use either a ground air source or airplane pneumatic air to do this procedure. If you use airplane pneumatic air, you must operate the APU.

B. Prepare for the Cleaning

SUBTASK 21-51-03-040-001

(1) Set the L PACK and R PACK switches on the P5-10 Air Conditioning Panel to the OFF position and install DO-NOT-OPERATE tags on the switches.

SUBTASK 21-51-03-860-037

(2) Set the ISOLATION VALVE switch on the P5-10 air conditioning panel to the OPEN position.

SUBTASK 21-51-03-010-001

(3) To get access to the Left pack heat exchangers, do this step:

Open this access panel:

Number	Name/Location
192CL	ECS Access Door

Remove this access panel:

Number	Name/Location
192BL	ECS Ram Air Inlet Mixing Duct Panel - Forward

SUBTASK 21-51-03-010-002

(4) To get access to the Right pack heat exchangers, do this step:

Open this access panel:

Number	Name/Location
192DR	ECS High Pressure Access Door

Open this access panel:

Number	Name/Location
192CR	ECS Access Door

Remove this access panel:

Number	Name/Location
192BR	ECS Ram Air Inlet Mixing Duct Panel - Forward

SUBTASK 21-51-03-010-003

(5) Remove the bolts and the washers that attach the ram air inlet duct access panel to the ram air inlet duct.

SUBTASK 21-51-03-010-004

(6) Remove the ram air inlet duct access panel.

NOTE: You must remove the access panel so that the cleaning water will not accumulate in the ram air inlet duct.

MECH | INSP

SUBTASK 21-51-03-010-005

(7) Remove the bolts and washers that attach the plenum/diffuser access panels to the plenum/diffuser assemblies for the primary and secondary heat exchangers.

SUBTASK 21-51-03-020-001

(8) Remove the bolt, washers, and nut that attach the bonding jumper to the forward access panel.

SUBTASK 21-51-03-010-006

(9) Remove the plenum/diffuser access panels and the gaskets.

SUBTASK 21-51-03-480-006

(10) To install the backflusher, SPL-1607 heat exchanger cleaning heads, do these steps:

(a) Install the backflush units (cleaning heads) in these locations:

1) The applicable backflush unit is used to clean the left pack primary heat exchanger or the right pack secondary heat exchanger.

2) The applicable backflush unit is used to clean the left pack secondary heat exchanger or the right pack primary heat exchanger.

CAUTION: DO NOT APPLY FORCE TO THE PLENUM/DIFFUSER ASSEMBLY WHEN YOU INSTALL THE CLEANING HEADS OF THE HEAT EXCHANGER. YOU CAN CAUSE DAMAGE TO THE PLENUM/DIFFUSER ASSEMBLY.

(b) Carefully insert the supply tubes of the cleaning head into the access holes in the plenum/diffuser assembly so that the ends of the supply tubes point toward the exit of the heat exchanger.

CAUTION: DO NOT TIGHTEN THE SCREWS ON THE CLEANING HEAD TOO MUCH. TOO MUCH TORQUE WILL CAUSE DAMAGE TO THE PLENUM/DIFFUSER.

(c) Carefully tighten the screws on the cleaning head so that the rubber seals of the cleaning head just make good contact with the plenum/diffuser.

(d) Do the above steps again to install the cleaning head for the other heat exchanger.

SUBTASK 21-51-03-480-008

(11) If the SPL-1607 backflusher has a water supply valve and air supply valve, make sure that they are closed.

NOTE: Not all configurations of the backflush equipment have the water supply valve and air supply valve.

SUBTASK 21-51-03-480-011

(12) Install plastic sheeting to seal off the plenum/diffuser as follows:

(a) Remove the two clamps that attach the flexible duct between the elbow duct at the aft end of the plenum/diffuser and the ram air exhaust duct (AMM TASK 21-51-24-000-801).

(b) Remove the flexible duct.

(c) Install a piece of plastic sheeting to cover the opening of the elbow duct that is attached to the aft end of the plenum/diffuser.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-100-00-01

MECH	INSP

(d) Secure the plastic sheeting to the end of the elbow duct with the clamps that are used to install the flexible duct.

SUBTASK 21-51-03-940-002

(13) Connect the water line of the 0 to 60 PSIG regulated cold water source, STD-3926, to the water supply hose of the backflush equipment.

(a) Do not start the flow of water at this time.

SUBTASK 21-51-03-941-001

(14) Do these steps if you want to use the airplane APU pneumatic air to back flush the heat exchangers:

(a) Open this access panel:

Number	Name/Location
192DR	ECS High Pressure Access Door

(b) Look at the dual duct pressure indicator on the P5-10 air conditioning panel to make sure that there is no pressure in the pneumatic system.

1) If there is pressure in the pneumatic system, then remove the pressure as follows:

a) Do this step: Remove Pressure from the Pneumatic System, AMM TASK 36-00-00-860-806.

(c) Do the two steps that follow at the same time to prepare to supply pneumatic air to the backflush equipment:

WARNING: WEAR GLOVES THAT WILL GIVE YOU PROTECTION FROM HOT SURFACES WHEN YOU CONNECT OR DISCONNECT PNEUMATIC FITTINGS. THE GROUND AIR CONNECTOR CAN BE VERY HOT IF THE PACKS HAVE BEEN OPERATED IMMEDIATELY BEFORE THIS PROCEDURE. YOU CAN BADLY BURN YOUR HANDS IF YOU TOUCH A HOT GROUND AIR CONNECTOR.

1) Install the deactivator, SPL-2462, in the ground pneumatic connector to hold the check valve open.

2) Connect the bleed air hose, SPL-13921, supplied with the backflush equipment to the ground pneumatic connector.

NOTE: The air hose connector holds the deactivator, SPL-2462, in position.

(d) Connect the other end of the air hose that you just connected to the ground pneumatic connector to the air inlet fitting on the backflush equipment air hose.

SUBTASK 21-51-03-941-002

(15) If you use a ground pneumatic air source to back flush the heat exchangers, do this step:

(a) Connect the ground pneumatic air supply line to the air inlet fitting on the backflush equipment.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-100-00-01

MECH | INSP

C. Heat Exchanger Cleaning

SUBTASK 21-51-03-020-002

CAUTION: DO NOT USE SOAP OR A DETERGENT SOLUTION TO CLEAN THE HEAT EXCHANGERS. USE COLD WATER ONLY. SOAP OR A DETERGENT SOLUTION CAN CAUSE DAMAGE TO THE AIR CYCLE MACHINE.

(1) Use the backflusher, SPL-1607 to clean the heat exchanger:

NOTE: You must do these steps for each of the heat exchangers.

(a) Connect the air hose to the cleaning head.

(b) Connect the water supply hose to the cleaning head.

(c) If you are using airplane pneumatic system air for the air source, do this step:

1) Do this task:Supply Pressure to the Pneumatic System with the APU, AMM TASK 36-00-00-860-803

(d) If you are using ground pneumatic air for the air source, do this step:

CAUTION: DO NOT SUPPLY MORE THAN 30 PSIG OF GROUND AIR PRESSURE TO THE HEAT EXCHANGERS. TOO MUCH PRESSURE CAN CAUSE DAMAGE TO THE HEAT EXCHANGERS OR THE RAM AIR EXIT DUCTS.

1) Start the ground air source and adjust the pressure regulator to a maximum of 30 psig.

(e) If installed, slowly open the air supply valve on the manifold of the cleaning tool.

(f) Slowly open the water supply valve on the water source (0-60 PSIG).

(g) If installed, slowly open the water supply valve on the manifold of the cleaning tool.

(h) Clean the heat exchanger for 5 minutes.

(i) Close the water supply valve on the water source (0-60 PSIG) and continue to supply air for an additional 2 minutes.

(j) If you are using airplane pneumatic system air, set the APU BLEED switch on the P5-10 panel to OFF.

(k) If you are using ground pneumatic air for the air source, set the valve on the ground pneumatic cart to the off position.

WARNING: PUT ON GLOVES FOR PROTECTION FROM THE HOT WATER IN THE HOSES. HOT WATER CAN BURN YOU.

(l) Disconnect the air hose from the cleaning head.

WARNING: PUT ON GLOVES FOR PROTECTION FROM THE HOT WATER IN THE HOSES. HOT WATER CAN BURN YOU.

(m) Disconnect the water supply hose from the cleaning head.

(n) Do the steps above, as necessary, for the other heat exchangers.

SUBTASK 21-51-03-020-003

(2) If not already done, close the valve at the water source.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-100-00-01

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SUBTASK 21-51-03-030-001

(3) Disconnect the water line from the water source (0-60 PSIG) and the water supply hose of the backflush equipment.

(4) If you used a ground air supply for the air source, do this step:

(a) Stop the operation of the ground air source.

(b) Disconnect the ground air supply line from the air hose inlet fitting.

SUBTASK 21-51-03-880-002

(5) If you used airplane pneumatic system air for the air source, do these steps:

(a) If not already done, set the APU BLEED switch on the P5-10 panel to the OFF position.

(b) If installed, open the air supply valve on the backflusher equipment.

WARNING: PUT ON GLOVES FOR PROTECTION FROM HOT SURFACES WHEN YOU CONNECT OR DISCONNECT PNEUMATIC FITTINGS. PACK OPERATION CAN MAKE THE GROUND AIR CONNECTOR VERY HOT. A HOT GROUND AIR CONNECTOR WILL BURN YOUR BARE HANDS.

(c) Disconnect the bleed air hose, SPL-13921, from the ground pneumatic connector and from the air hose inlet fitting.

WARNING: PUT ON GLOVES FOR PROTECTION FROM HOT SURFACES WHEN YOU CONNECT OR DISCONNECT PNEUMATIC FITTINGS. PACK OPERATION CAN MAKE THE GROUND AIR CONNECTOR VERY HOT. A HOT GROUND AIR CONNECTOR WILL BURN YOUR BARE HANDS.

(d) Remove the check valve deactivator from the ground pneumatic connector.

(e) Close this access panel:

Number	Name/Location
192DR	ECS High Pressure Access Door

SUBTASK 21-51-03-020-151

(6) To remove the heat exchanger cleaning heads, do these steps:

(a) If not already done, disconnect the air hose from the cleaning head.

(b) If not already done, disconnect the water supply hose from the cleaning head.

(c) Loosen the screws on the cleaning head.

(d) Carefully remove the cleaning head.

SUBTASK 21-51-03-420-003

(7) Install the plenum/diffuser access panels and the gaskets with the bolts and washers.

SUBTASK 21-51-03-410-014

(8) Put the bonding jumper in its position and install the bolts, washers, and nut.

SUBTASK 21-51-03-420-004

(9) Install the ram air inlet access panel with the bolts and washers.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-100-00-01

MECH	INSP

SUBTASK 21-51-03-080-009

(10) Remove the plastic sheeting from the elbow duct at the aft end of the plenum/diffuser as follows:

(a) Remove the clamp that secures the plastic sheeting to the elbow duct.

(b) Remove the plastic sheeting.

(c) Install the flexible duct between the elbow duct at the aft end of the plenum/diffuser and the ram air exhaust duct (AMM TASK 21-51-24-400-801).

(d) Install the clamps to secure the flexible duct:

1) Tighten the clamps to 15 (± 2) inch-pounds.

SUBTASK 21-51-03-880-001

(11) Operate the air conditioning pack for five minutes. To operate the pack, do this task: Supply Conditioned Air with a Cooling Pack, AMM TASK 21-00-00-800-803.

NOTE: This will remove any remaining water in the ram air ducts and the air cycle machine bearings.

SUBTASK 21-51-03-880-003

(12) Stop the air conditioning pack. To stop the pack, do this task: Remove Conditioned Air Supplied by a Cooling Pack, AMM TASK 21-00-00-800-804.

D. Put the Airplane Back to its Usual Condition

SUBTASK 21-51-03-860-002

(1) Do this task: Remove Pressure from the Pneumatic System, AMM TASK 36-00-00-860-806.

SUBTASK 21-51-03-100-001

(2) If you cleaned the left pack heat exchangers, do this step:

Close this access panel:

Number	Name/Location
192CL	ECS Access Door

Install this access panel:

Number	Name/Location
192BL	ECS Ram Air Inlet Mixing Duct Panel - Forward

SUBTASK 21-51-03-100-002

(3) If you cleaned the right pack heat exchangers, do this step:

Close this access panel:

Number	Name/Location
192CR	ECS Access Door

Close this access panel:

Number	Name/Location
192DR	ECS High Pressure Access Door

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-100-00-01

MECH	INSP

Install this access panel:

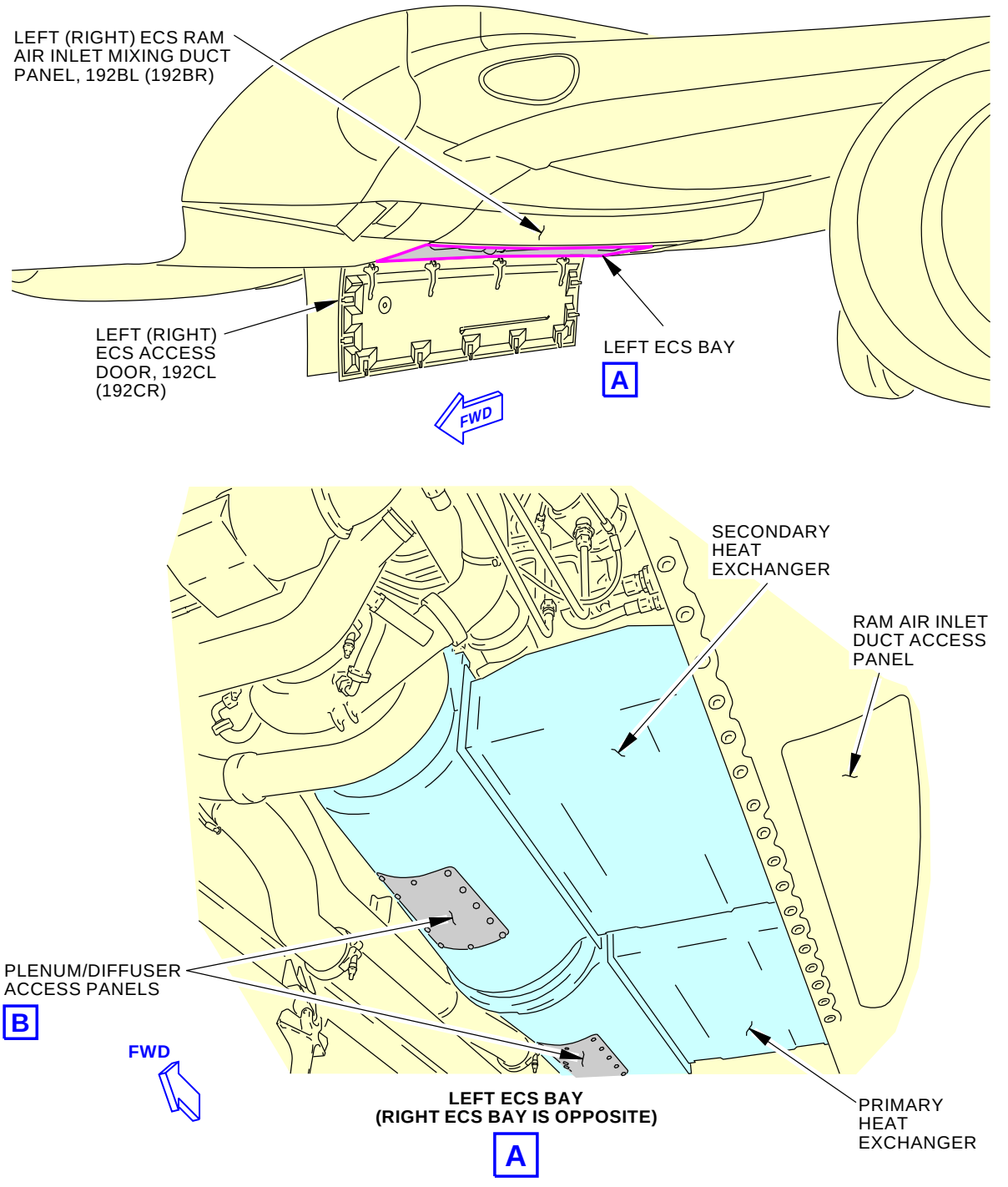
Number	Name/Location
192BR	ECS Ram Air Inlet Mixing Duct Panel - Forward

SUBTASK 21-51-03-860-003

(4) Remove electrical power if it is not necessary. To remove electrical power, do this task: Remove Electrical Power, AMM TASK 24-22-00-860-812

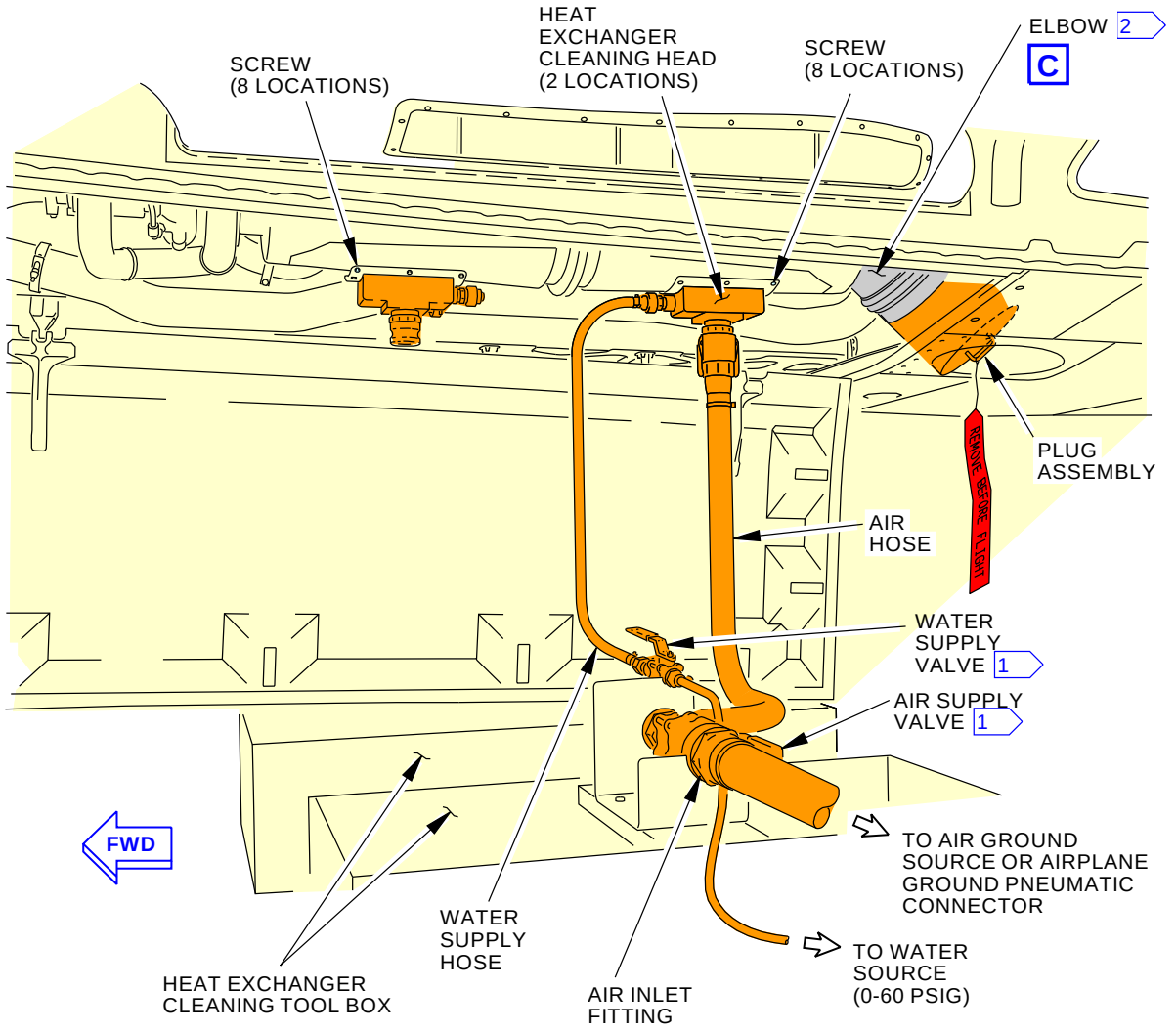
——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-100-00-01



Heat Exchanger and Plenum/Diffuser Assembly Cleaning
Figure 1 (Sheet 1 of 3)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-100-00-01



1 IF INSTALLED

2 AIRPLANES WITH
EXHAUST LOUVERS

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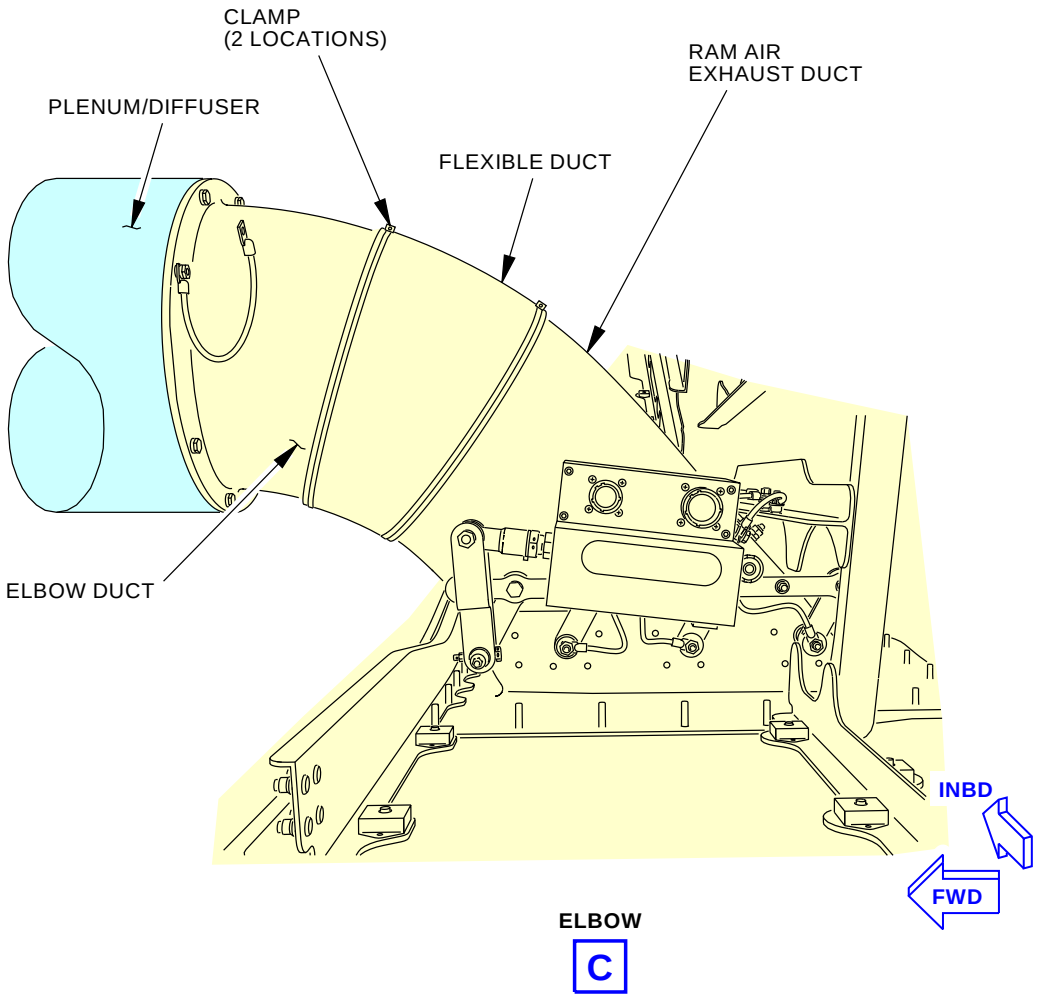
Heat Exchanger and Plenum/Diffuser Assembly Cleaning
Figure 1 (Sheet 2 of 3)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-100-00-01



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Heat Exchanger and Plenum/Diffuser Assembly Cleaning
Figure 1 (Sheet 3 of 3)

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		CABIN TEMPERATURE SENSOR FILTERS			**21-150-00-01**
DATE	TASK				RELATED CARD
	RESTORE				
TAIL NUMBER	WORK AREA	VERSION	THRESHOLD	REPEAT	APPLICABILITY
	CREW CABIN	**1.1**	**1200 FH**	**1200 FH**	AIRPLANE **ALL** ENGINE **ALL**
STATION	SKILL				
	AIRPL				
		ACCESS			ZONE **211 232 242**

Clean or replace the cabin temperature sensor filters (737-600/700 has one each in the control and passenger cabins, 737-800/900 has one in the control cabin and two in the passenger cabin).

A. Consumable Materials

Reference	Description	Specification
B00039	Cleaner - Brulin Formula 815MX	
B00130	Alcohol - Isopropyl	TT-I-735
B00541	Cleaner - General Purpose Household Detergent	
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G02472	Filter - 3/16 inch, Porosity Grade 45 Ppi, Color-Gray, Flame Retardent Foam	

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-150-00-01

MECH | INSP

TASK 21-61-06-000-801

1. Cabin Temperature Sensor Assembly Filter Removal

(Figure 1, Figure 2)

A. Prepare for the Removal

SUBTASK 21-61-06-860-006

(1) Do this step for the removal of the filter for the flight compartment zone:

(a) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
B	3	C01163	A/C ZONE TEMP VALVE/FAN CONT FLT DECK

SUBTASK 21-61-06-860-007

(2) Do this step for the removal of the filter for the forward passenger compartment zone:

(a) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
B	2	C01167	A/C ZONE TEMP VALVE/FAN CONT FWD PASS

SUBTASK 21-61-06-860-008

(3) Do this step for the removal of the filter for the aft passenger compartment zone:

(a) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
A	3	C01170	A/C ZONE TEMP VALVE/FAN CONT AFT PASS

SUBTASK 21-61-06-010-001

(4) Find the filter for the flight compartment cabin temperature sensor assembly on the aft ceiling in the flight compartment.

SUBTASK 21-61-06-860-053

(5) Find the filter for the passenger compartment directly above the passenger seats on the right side of the aisle. The filter is on a panel between the PSUs. Use the illustration to find the correct location.

B. Flight Compartment Zone - Cabin Temperature Sensor Assembly Filter Removal

(Figure 1)

SUBTASK 21-61-06-020-001

(1) Remove the filter [1] for the cabin temperature sensor assembly in the flight compartment as follows:

(a) Remove the four screws [2] that attach the grille [3] to the aft ceiling in the flight compartment.

(b) Remove the grille [3] and the filter [1].

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MECH	INSP

C. Passenger Compartment Zone - Cabin Temperature Sensor Assembly Filter Removal

(Figure 2)

SUBTASK 21-61-06-020-005

(1) To remove the filter [21] for the cabin temperature sensor assembly in the passenger compartment, do these steps:

CAUTION: DO NOT APPLY TOO MUCH FORCE TO REMOVE THE GRILLE. THE GRILLE WILL COME OUT EASILY IF YOU PUSH ON THE TAB LIGHTLY WITH A TOOL OF THE CORRECT DIMENSION. TOO MUCH FORCE WILL CAUSE DAMAGE TO THE GRILLE OR THE PANEL.

(a) Put a metal rod with a blunt end, approximately 1/16-inch (1.58 mm) diameter, into one of the slots on the edge of the grille [22].

(b) Apply pressure to the rod end to release the tab that holds the grille [22] onto the temperature sensor panel.

(c) Remove the grille [22] and the filter [21].

——— **END OF TASK** ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-150-00-01

MECH | INSP

TASK 21-61-06-100-801

2. Cabin Temperature Sensor Assembly Filter Cleaning

(Figure 1, Figure 2)

A. Prepare for the Cleaning

SUBTASK 21-61-06-020-003

(1) Remove the filter for the temperature sensor assembly in the flight compartment. To remove the filter, do this task: Cabin Temperature Sensor Assembly Filter Removal, TASK 21-61-06-000-801.

SUBTASK 21-61-06-020-004

(2) Remove the filter for the temperature sensor assembly in the passenger compartment. To remove the filter, do this task: Cabin Temperature Sensor Assembly Filter Removal, TASK 21-61-06-000-801.

SUBTASK 21-61-06-210-001

(3) If the filter is damaged, discard the filter.

SUBTASK 21-61-06-350-001

(4) If applicable, cut a new filter from foam filter, G02472, the same size as the filter you removed.

NOTE: The old filter may be used as a template to prepare a new filter.

B. Cleaning Procedure

SUBTASK 21-61-06-110-001

(1) Prepare a cleaning solution of water and any readily available general purpose household detergent cleaner, B00541 or Brulin Formula 815MX cleaner, B00039 in accordance with the instructions on the detergent container.

SUBTASK 21-61-06-110-002

(2) Clean the air inlet grille and the filter with the cleaning solution of the cleaner and water.

NOTE: A new filter does not need to be cleaned.

SUBTASK 21-61-06-100-004

(3) If the cleaning solution did not remove all dirt deposits or contamination from the air inlet grille, clean the grille with a cotton wiper, G00034 that is moist with alcohol, B00130.

SUBTASK 21-61-06-100-001

(4) Flush the grille and the filter with clean water until all traces of the cleaning solution or alcohol, B00130 have been removed.

SUBTASK 21-61-06-100-002

(5) Dry the grille with cotton wiper, G00034.

SUBTASK 21-61-06-100-003

(6) Dry the filter with compressed air or the cotton wiper, G00034.

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-150-00-01

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C. Put the Airplane Back to Its Usual Condition

SUBTASK 21-61-06-420-001

(1) Install the filter for the temperature sensor assembly in the flight compartment. To install the filter, do this task: Cabin Temperature Sensor Assembly Filter Installation, TASK 21-61-06-400-801.

SUBTASK 21-61-06-420-002

(2) Install the filter for the temperature sensor assembly in the passenger compartment. To install the filter, do this task: Cabin Temperature Sensor Assembly Filter Installation, TASK 21-61-06-400-801.

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-150-00-01

MECH | INSP

TASK 21-61-06-400-801

3. Cabin Temperature Sensor Assembly Filter Installation

A. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Filter	21-61-51-02-230	AKS ALL
21	Filter	21-61-06-01D-005	AKS ALL

B. Flight Compartment Zone - Cabin Temperature Sensor Assembly Filter Installation

(Figure 1)

SUBTASK 21-61-06-420-003

(1) Install the filter [1] for the cabin temperature sensor assembly in the flight compartment as follows:

(a) Put a new or cleaned filter [1] in its position in the aft ceiling panel.

(b) Put the grille [3] in its position.

(c) Install the four screws [2] that attach the grille to the aft ceiling panel.

C. Passenger Compartment Zone - Cabin Temperature Sensor Assembly Filter Installation

(Figure 2)

SUBTASK 21-61-06-420-005

(1) To install the filter [21] for the temperature sensor assembly in the passenger compartment, do these steps:

(a) Put a new or cleaned filter [21] in the grill.

(b) Align index tabs on the grille [22] with the notches on the temperature sensor panel.

(c) Push the grille [22] into the temperature sensor panel to engage the two tabs.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 21-61-06-860-012

(1) If you installed the filter [1] for the flight compartment zone, do this step:

(a) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
B	3	C01163	A/C ZONE TEMP VALVE/FAN CONT FLT DECK

SUBTASK 21-61-06-860-013

(2) If you installed the filter [21] for the forward passenger compartment zone, do this step:

(a) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
B	2	C01167	A/C ZONE TEMP VALVE/FAN CONT FWD PASS

SUBTASK 21-61-06-860-014

(3) If you installed the filter [21] for the aft passenger compartment zone, do this step:

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-150-00-01

MECH	INSP

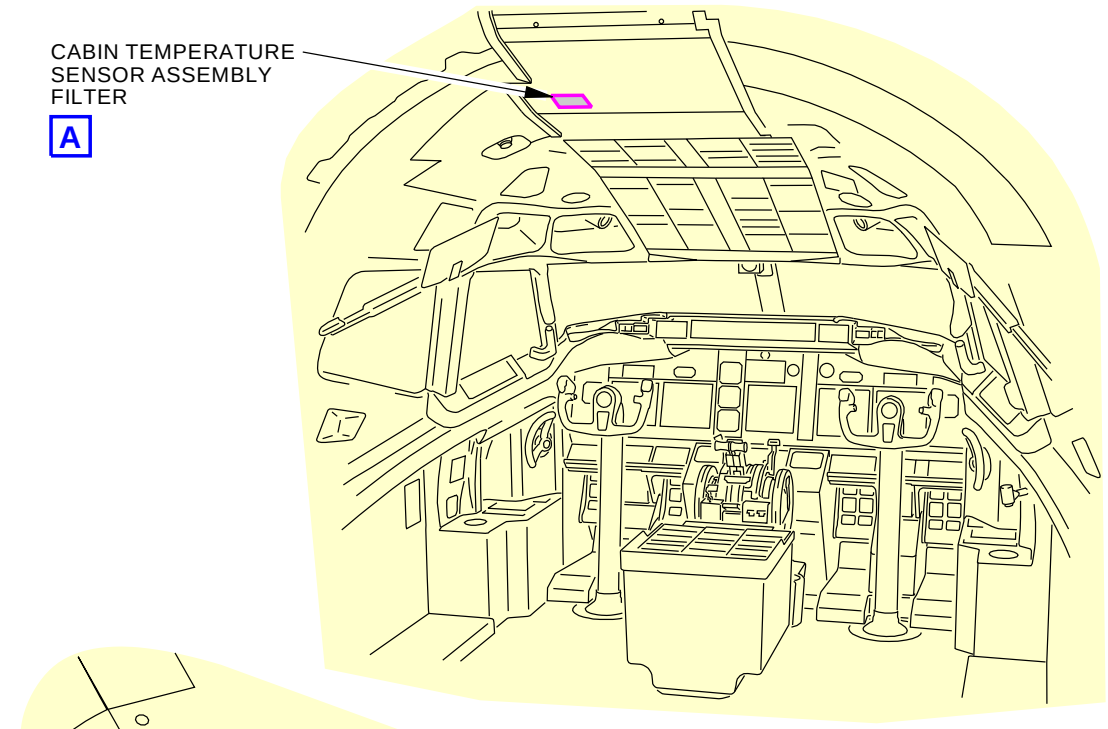
(a) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-4

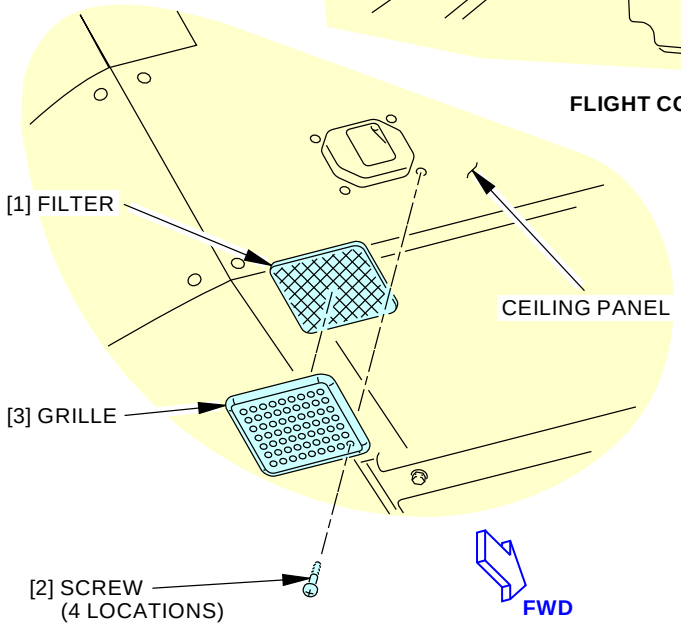
Row	Col	Number	Name
A	3	C01170	A/C ZONE TEMP VALVE/FAN CONT AFT PASS

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-150-00-01



FLIGHT COMPARTMENT



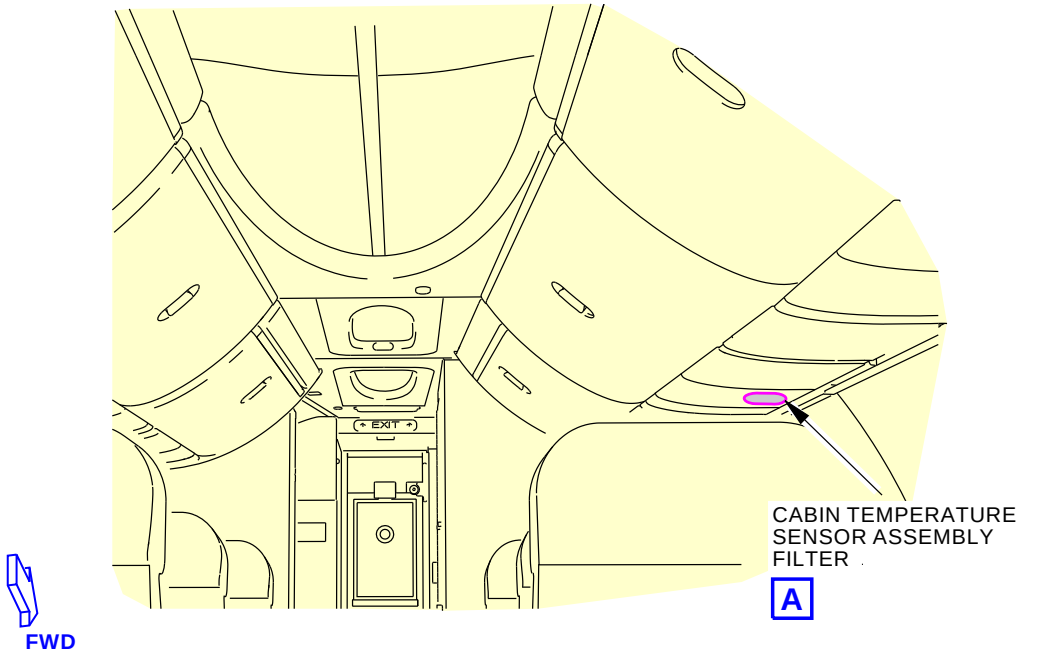
CABIN TEMPERATURE SENSOR ASSEMBLY FILTER

A

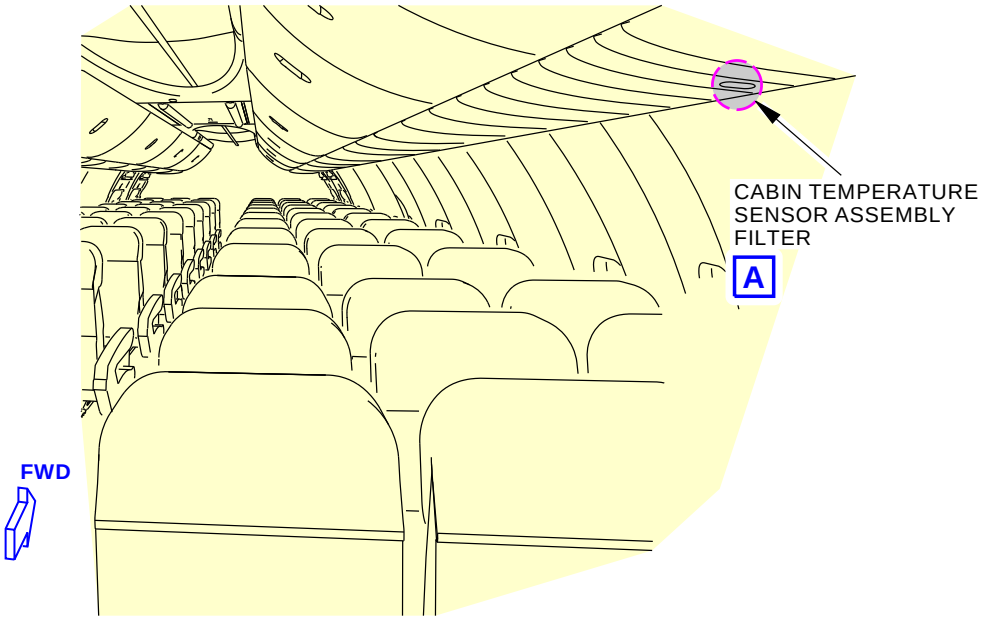
G26907 S0006563431_V2

Flight Compartment - Cabin Temperature Sensor Assembly Filter Installation
Figure 1

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-150-00-01



FORWARD PASSENGER COMPARTMENT

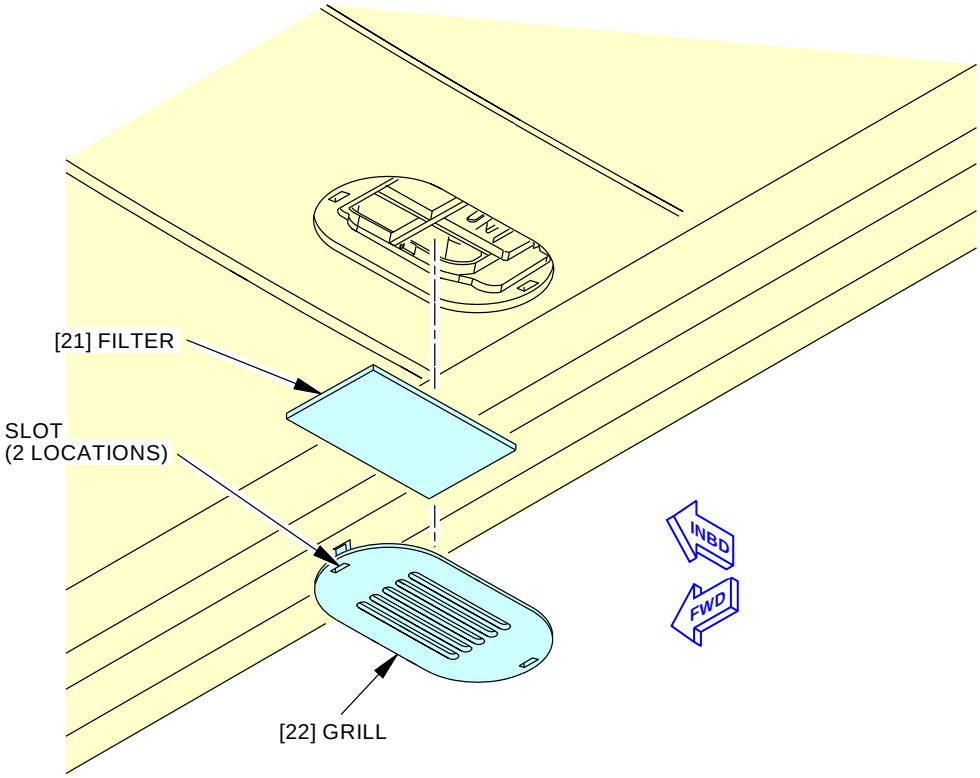


AFT PASSENGER COMPARTMENT

2071564 S0000431581_V2

Cabin Temperature Sensor Assembly Filter Installation
Figure 2 (Sheet 1 of 2)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-150-00-01



CABIN TEMPERATURE SENSOR ASSEMBLY FILTER
(EXAMPLE)

A

2071562 S0000431582_V2

Cabin Temperature Sensor Assembly Filter Installation
Figure 2 (Sheet 2 of 2)

AIRLINE CARD NO		TITLE			BOEING CARD NO.
		APU BOOT PRESSURE SEAL			21-190-00-01
DATE	TASK DISCARD				RELATED CARD
TAIL NUMBER	WORK AREA AIRPLANE	VERSION 1.1	THRESHOLD 6 YR	REPEAT 6 YR	APPLICABILITY AIRPLANE: ALL NOTE ENGINE: ALL
STATION	SKILL AIRPL				
		ACCESS 193D 311BL			ZONE 133 141 143 145

Discard APU bleed air duct flexible pressure seal.

AIRPLANE NOTE: Applicable to airplanes equipped with part number BOE2003-0052 seal.

A. References

Reference	Title
AMM 36-13-01-020-801	APU Pneumatic Duct Pressure Seal Removal (P/B 401)
AMM 36-13-01-420-801	APU Pneumatic Duct Pressure Seal Installation (P/B 401)

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO.
				21-190-00-01

MECH	INSP

AKS ALL; AIRPLANES WITH BOE2003-0052 APU PRESSURE SEAL

TASK 36-13-01-020-803

1. APU Pneumatic Duct Pressure Seal Removal

A. Procedure

SUBTASK 36-13-01-020-046

(1) Remove the APU Pneumatic Duct Pressure Seal APU Pneumatic Duct Pressure Seal Removal, AMM TASK 36-13-01-020-801

——— END OF TASK ———

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 21-190-00-01

AKS ALL; AIRPLANES WITH BOE2003-0052 APU PRESSURE SEAL (Continued)

MECH | INSP

TASK 36-13-01-420-803

2. APU Pneumatic Duct Pressure Seal Installation

A. Procedure

SUBTASK 36-13-01-420-049

(1) Install the APU pneumatic duct pressure seal (APU Pneumatic Duct Pressure Seal Installation, AMM TASK 36-13-01-420-801).

——— END OF TASK ———