

DISTRIBUTION - CLEANING/PAINTING

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. This section gives the procedures to clean the conditioned air ducts and the bleed duct lines.
- B. This task is applicable in case a amount of oil to have entered in ECS system, come in from one engine or APU.
- C. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
21-20-00-100-801-A	CONDITIONED AIR DUCTS - CLEANING	ACFT MODEL(S) EMB-145
21-20-00-100-803-A	AIR CONDITIONING SYSTEM - OIL CONTAMINATION - CLEANING	ACFT MODEL(S) EMB-145
21-20-00-100-805-A	CONDITIONED AIR DUCTS - OIL DECONTAMINATION - CLEANING	ACFT MODEL(S) EMB-145

TASK 21-20-00-100-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. CONDITIONED AIR DUCTS - CLEANING

A. General

- (1) If a general visual inspection shows the conditioned air ducts to be dirty, you must clean them inside and outside. To do this, it is necessary to remove the ducts.

B. References

REFERENCE	DESIGNATION
AMM TASK 21-20-04-000-801-A/400	-
AMM TASK 21-20-04-400-801-A/400	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Lint-free cloth	To clean the duct	AR

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Commercially available	Mild soap	AR
Commercially available	Mild detergent	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	A - Does the task	Cockpit and passenger cabin
1	B - Helps technician A	Cockpit and passenger cabin

I. Preparation

SUBTASK 841-014-A

- (1) Remove the conditioned air ducts (AMM TASK 21-20-04-000-801-A/400).

J. Cleaning (Figure 701)

SUBTASK 140-018-A

CAUTION: DO NOT USE THESE MATERIALS TO CLEAN THE CONDITIONED AIR DUCTS:

- ACIDIC DETERGENTS.
 - ALKALINE DETERGENTS.
 - AROMATIC SOLVENTS (BENZENE, TOLUENE, XYLENE).
 - CHLORINATED SOLVENTS (1,1,1 TRICHLOROETHANE, PERCHLOROETHYLENE, METHYLENE CHLORIDE, DICHLOROETHANE).
 - KETONES (METHYL-ETHYL-KETONE, METHYL-BUTYL-KETONE, METHYL-ISOBUTYL-KETONE).
 - ETHYL ALCOHOL.
- (1) Clean the duct with a cloth moist with water and mild soap or mild detergent.
 - (2) Do the operation as many times as necessary, until all signs of dirty are removed.
 - (3) Remove all soap or detergent residues with a soft cloth moist with clean water.
 - (4) Dry the duct with a soft clean cloth.

K. Follow-on

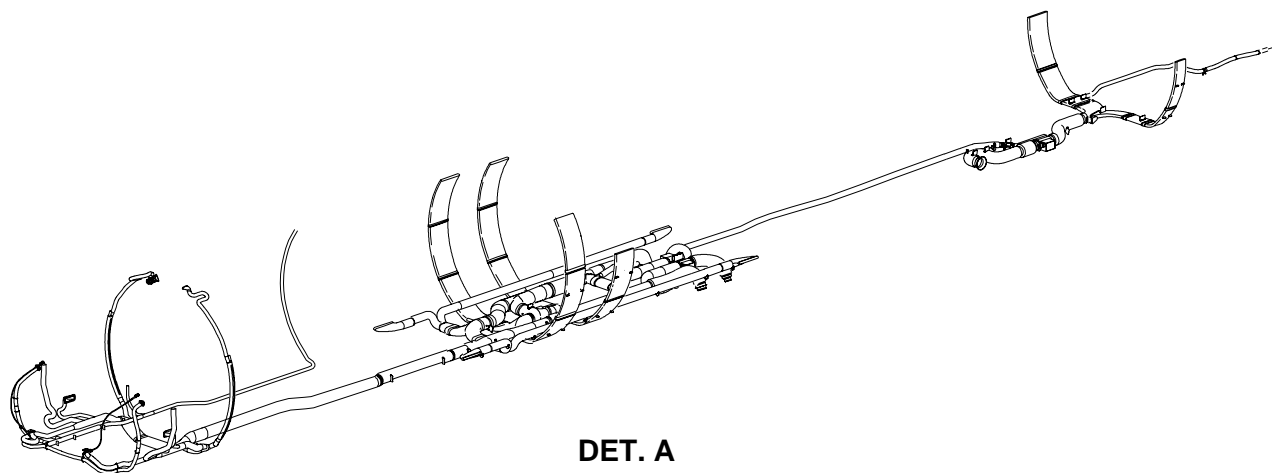
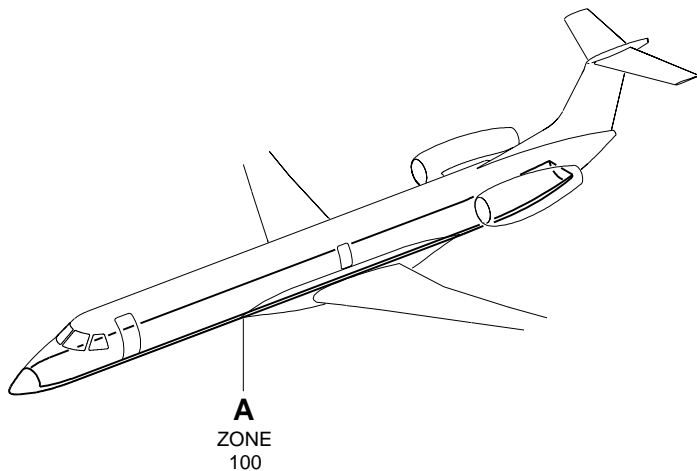
SUBTASK 842-014-A

- (1) Install the conditioned air ducts (AMM TASK 21-20-04-400-801-A/400).

EFFECTIVITY: ACFT MODEL(S) EMB-145

Conditioned Air Ducts - Location

Figure 701



145AMM210144.MCE A

TASK 21-20-00-100-803-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

3. AIR CONDITIONING SYSTEM - OIL CONTAMINATION - CLEANING

A. General

- (1) This task gives the procedure to clean the components of the pneumatic and air conditioning systems when they are contaminated with oil.

B. References

REFERENCE	DESIGNATION
AMM TASK 21-20-00-100-801-A/700	-
AMM TASK 21-51-02-000-801-A/400	DUAL HEAT EXCHANGER - REMOVAL
AMM TASK 21-51-02-100-801-A/700	DUAL HEAT EXCHANGER - CLEANING
AMM TASK 21-51-02-400-801-A/400	DUAL HEAT EXCHANGER - INSTALLATION
AMM TASK 21-51-03-000-801-A/400	AIR CYCLE MACHINE (ACM) - REMOVAL
AMM TASK 21-51-03-400-801-A/400	AIR CYCLE MACHINE (ACM) - INSTALLATION
AMM TASK 21-51-04-000-801-A/400	CONDENSER/MIXER - REMOVAL
AMM TASK 21-51-04-400-801-A/400	CONDENSER/MIXER - INSTALLATION
AMM TASK 36-00-00-700-803-A/500	AIR BLEED SYSTEM - OPERATIONAL TEST
AMM TASK 36-10-01-000-801-A/400	CROSS-BLEED VALVE - REMOVAL
AMM TASK 36-10-01-400-801-A/400	CROSS-BLEED VALVE - INSTALLATION
AMM TASK 36-10-01-400-802-A/400	FILTER - INSTALLATION
AMM TASK 36-10-02-000-801-A/400	ENGINE-STARTING GROUND COUPLING - REMOVAL
AMM TASK 36-10-02-400-801-A/400	ENGINE STARTING GROUND COUPLING - INSTALLATION
AMM TASK 36-11-02-000-801-A/400	HIGH-STAGE VALVE - REMOVAL
AMM TASK 36-11-02-100-801-A/700	HIGH-STAGE VALVE FILTER - CLEANING BY ULTRASONIC METHOD
AMM TASK 36-11-02-100-802-A/700	HIGH-STAGE VALVE FILTER - CLEANING BY AIR BLAST METHOD
AMM TASK 36-11-02-400-801-A/400	HIGH-STAGE VALVE - INSTALLATION
AMM TASK 36-11-03-000-801-A/400	FAN-AIR VALVE - REMOVAL
AMM TASK 36-11-04-000-801-A/400	PRECOOLER - REMOVAL
AMM TASK 36-11-04-100-801-A/700	PRECOOLER - CLEANING
AMM TASK 36-11-04-400-801-A/400	PRECOOLER - INSTALLATION
AMM TASK 36-11-05-000-801-A/400	ENGINE BLEED VALVE - REMOVAL
AMM TASK 36-11-05-000-802-A/400	FILTER - REMOVAL
AMM TASK 36-11-05-100-801-A/700	ENGINE-BLEED VALVE FILTER - CLEANING BY ULTRASONIC METHOD
AMM TASK 36-11-05-100-802-A/700	ENGINE-BLEED VALVE AIR FILTER - CLEANING BY AIR BLAST METHOD
AMM TASK 36-11-05-400-801-A/400	ENGINE BLEED VALVE - INSTALLATION

(Continued)

REFERENCE	DESIGNATION
AMM TASK 36-11-05-400-802-A/400	FILTER - INSTALLATION
AMM TASK 36-11-09-000-801-A/400	FUSELAGE DUCT LINES - TYPICAL REMOVAL
AMM TASK 36-11-09-400-801-A/400	FUSELAGE DUCT LINES - TYPICAL INSTALLATION
AMM TASK 36-11-10-000-801-A/400	AIR-BLEED LINE PAIRS OF O-RINGS - REMOVAL
AMM TASK 36-11-10-400-801-A/400	AIR-BLEED LINE PAIRS OF O-RINGS - INSTALLATION
CMM 815240	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Lint-free cloth	To clean the duct	AR

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Commercially available	Mild soap	AR
Commercially available	Mild detergent	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	A - Does the task	Cockpit and passenger cabin
1	B - Helps technician A	Cockpit and passenger cabin

I. Preparation

SUBTASK 841-015-A

WARNING: MAKE SURE THAT THE AIRCRAFT IS IN A SAFE CONDITION BEFORE YOU DO THE MAINTENANCE PROCEDURES. THIS IS TO PREVENT INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT.

- (1) Do the procedure to make the aircraft safe for maintenance.

J. Cleaning

SUBTASK 140-019-A

- (1) When the oil contamination comes from one of the engines, do as follows:
 - (a) On the pneumatic system components. Refer (Figure 702).
 - 1 Remove the high-stage bleed valve (AMM TASK 36-11-02-000-801-A/400), then clean it.
 - 2 Clean the high-stage bleed valve filter (AMM TASK 36-11-02-100-801-A/700).
 - 3 Install the high-stage bleed valve (AMM TASK 36-11-02-400-801-A/400).
 - 4 NOTE: 1. When there is a little leakage, examine the O-rings. If the O-rings are contaminated, replace them (AMM TASK 36-11-10-000-801-A/400)/(AMM TASK 36-11-10-400-801-A/400).
 2. When there is a massive leakage, remove the ducts (AMM TASK 36-11-09-000-801-A/400)/(AMM TASK 36-11-09-400-801-A/400) and clean it.

On the fan air valve, do as follows:

- 5 Remove the fan air valve (AMM TASK 36-11-03-000-801-A/400) then clean it.
- 6 Clean the fan-air valve filter (AMM TASK 36-11-02-100-801-A/700)/(AMM TASK 36-11-02-100-802-A/700).
- 7 Install the fan air valve (AMM TASK 36-11-02-400-801-A/400).
- 8 NOTE: 1. When there is a little leakage, examine the O-rings and replace them (AMM TASK 36-11-10-000-801-A/400)/(AMM TASK 36-11-10-400-801-A/400).
2. When there is a massive leakage, remove the ducts (AMM TASK 36-11-09-000-801-A/400)/(AMM TASK 36-11-09-400-801-A/400) and clean it.

On the pre-cooler, do as follows:

- 9 Remove the pre-cooler (AMM TASK 36-11-04-000-801-A/400) then clean it.
- 10 Clean the pre-cooler (AMM TASK 36-11-04-100-801-A/700).
- 11 Install the pre-cooler (AMM TASK 36-11-04-400-801-A/400).

- 12 NOTE: 1. When there is a little leakage, examine the O-rings. If the O-rings are contaminated, replace them ([AMM TASK 36-11-10-000-801-A/400](#))/([AMM TASK 36-11-10-400-801-A/400](#)).
2. When there is a massive leakage, remove the ducts ([AMM TASK 36-11-09-000-801-A/400](#))/([AMM TASK 36-11-09-400-801-A/400](#)) and clean it.

On the engine bleed valve, do as follows:

- 13 Remove the engine bleed valve ([AMM TASK 36-11-05-000-801-A/400](#))/([AMM TASK 36-11-05-000-802-A/400](#)), then clean it.
- 14 Clean the engine-bleed valve filter ([AMM TASK 36-11-05-100-801-A/700](#))/([AMM TASK 36-11-05-100-802-A/700](#)).
- 15 Install the engine bleed valve ([AMM TASK 36-11-05-400-801-A/400](#))/([AMM TASK 36-11-05-400-802-A/400](#)).
- 16 NOTE: 1. When there is a little leakage, examine the O-rings and replace them ([AMM TASK 36-11-10-000-801-A/400](#))/([AMM TASK 36-11-10-400-801-A/400](#)).
2. To a massive leakage, remove the ducts ([AMM TASK 36-11-09-000-801-A/400](#))/([AMM TASK 36-11-09-400-801-A/400](#)) and clean it.

On the cross bleed valve, do as follows:

- 17 Remove the cross bleed valve ([AMM TASK 36-10-01-000-801-A/400](#)), then clean it.
- 18 Clean the cross-bleed valve filter ([AMM TASK 36-10-01-000-801-A/400](#))/([AMM TASK 36-10-01-400-802-A/400](#)).
- 19 Install the cross bleed valve ([AMM TASK 36-10-01-400-801-A/400](#)).
- 20 NOTE: 1. When there is a little leakage, examine the O-rings and replace them ([AMM TASK 36-11-10-000-801-A/400](#))/([AMM TASK 36-11-10-400-801-A/400](#)).
2. When there is a massive leakage, remove the ducts ([AMM TASK 36-11-09-000-801-A/400](#))/([AMM TASK 36-11-09-400-801-A/400](#)) and clean it.

On the ground connection, do as follows:

- 21 Remove the ground connection ([AMM TASK 36-10-02-000-801-A/400](#)), then clean it.
- 22 NOTE: Use a standard industry procedures to clean the ground connection.

23 Install the ground connection ([AMM TASK 36-10-02-400-801-A/400](#)).

24 NOTE: 1. When there is a little leakage, examine the O-rings and replace them ([AMM TASK 36-11-10-000-801-A/400](#))/([AMM TASK 36-11-10-400-801-A/400](#)).

2. When there is a massive leakage, remove the ducts ([AMM TASK 36-11-09-000-801-A/400](#))/([AMM TASK 36-11-09-400-801-A/400](#)) and clean it.

Go to step below:

(2) If you find contamination on the components of air conditioning system, do as follows:

(a) Do an inspection in the air-conditioning-pack interconnection ducts and condenser/mixer ducts. If you find oil contamination, disassemble and clean the air conditioning pack (CMM 815240).

1 Remove the dual heat exchanger ([AMM TASK 21-51-02-000-801-A/400](#)).

2 Clean the dual heat exchanger ([AMM TASK 21-51-02-100-801-A/700](#)).

3 Install the dual heat exchanger ([AMM TASK 21-51-02-400-801-A/400](#)).

4 NOTE: 1. When there is a little leakage, examine the O-rings and replace them ([AMM TASK 36-11-10-000-801-A/400](#))/([AMM TASK 36-11-10-400-801-A/400](#)).

2. When there is a massive leakage, clean the ducts (AMM TASK 21-20-00-100-801-A/700).

On the condenser/mixer, do as follows:

5 Remove the condenser/mixer ([AMM TASK 21-51-04-000-801-A/400](#)).

6 Also clean the pack interconnection ducts (AMM TASK 21-20-00-100-801-A/700).

7 Install the condenser/mixer ([AMM TASK 21-51-04-400-801-A/400](#)).

8 NOTE: 1. When there is a little leakage, examine the O-rings and replace them ([AMM TASK 36-11-10-000-801-A/400](#))/([AMM TASK 36-11-10-400-801-A/400](#)).

2. When there is a massive leakage, clean the ducts (AMM TASK 21-20-00-100-801-A/700).

On the ACM, do as follows:

9 Remove the ACM ([AMM TASK 21-51-03-000-801-A/400](#)).

10 Refer to the latest revision of CMM 815240 to disassemble and clean the ACM.

11 Install the ACM ([AMM TASK 21-51-03-400-801-A/400](#)).

- 12 NOTE: 1. When there is a little leakage, examine the O-rings and replace them ([AMM TASK 36-11-10-000-801-A/400](#))/([AMM TASK 36-11-10-400-801-A/400](#)).
2. When there is a massive leakage with oil, clean the ducts (AMM TASK 21-20-00-100-801-A/700):

Go to step below:

- (3) When the oil contamination comes from the APU:

NOTE: An APU - Auxiliary Power Unit oil leakage can contaminate components on the two sides of the system as a result of the aircraft operation mode. Do the inspection on the two sides of the system to find if there is contamination. A single bleed/dual pack operation can contaminate the two sides with only one source of air.

- (a) On the pneumatic system components, do as follows:

- 1 Do an internal visual inspection in the valve housing for signs of oil contamination.
- 2 NOTE: 1. When there is a little leakage, examine the O-rings and replace them ([AMM TASK 36-11-10-000-801-A/400](#))/([AMM TASK 36-11-10-400-801-A/400](#)).
2. When there is a massive leakage, remove the ducts ([AMM TASK 36-11-09-000-801-A/400](#))/([AMM TASK 36-11-09-400-801-A/400](#)) and clean it.

On the cross bleed valve, do as follows:

- 3 Remove the cross bleed valve ([AMM TASK 36-10-01-000-801-A/400](#)), then lean it.
- 4 Clean the cross-bleed valve filter ([AMM TASK 36-10-01-000-801-A/400](#))/([AMM TASK 36-10-01-400-802-A/400](#)).
- 5 Install the cross bleed valve ([AMM TASK 36-10-01-400-801-A/400](#)).
- 6 NOTE: If necessary, repeat the step 1 again.

Go to the step below:

- (4) Do as follows if you find contamination in the air conditioning system:

- (a) On the components of the air conditioning system, do as follows:

- 1 Remove the dual heat exchanger ([AMM TASK 21-51-02-000-801-A/400](#)).
- 2 Clean the dual heat exchanger ([AMM TASK 21-51-02-100-801-A/700](#)).
- 3 Install the dual heat exchanger ([AMM TASK 21-51-02-400-801-A/400](#)).
- 4 Remove the condenser/mixer ([AMM TASK 21-51-04-000-801-A/400](#)).

- 5 Examine the air-conditioning-pack interconnection ducts and condenser/mixer ducts. If you find oil contamination, you must disassemble and clean the air conditioning pack (CMM 815240).

NOTE: Also clean the pack interconnection ducts.

- 6 Install the condenser/mixer ([AMM TASK 21-51-04-400-801-A/400](#)).

- 7 Remove the ACM ([AMM TASK 21-51-03-000-801-A/400](#)).

- 8 Refer to the latest revision of CMM 815240 to disassemble and clean the ACM.

- 9 NOTE: When there is a small leakage, examine the O-rings. If the O-rings are contaminated with oil, replace them as follows:

Replace the O-rings ([AMM TASK 36-11-10-000-801-A/400](#))/([AMM TASK 36-11-10-400-801-A/400](#)).

- 10 NOTE: When there is a massive leakage, check the ducts. If the duct is contaminated with oil you must replace it, as follows:

Clean the ducts (AMM TASK 21-20-00-100-801-A/700).

- 11 Install the ACM ([AMM TASK 21-51-03-400-801-A/400](#)).

- 12 Clean the pack outlet ducts (AMM TASK 21-20-00-100-801-A/700).

K. Follow-on

SUBTASK 842-015-A

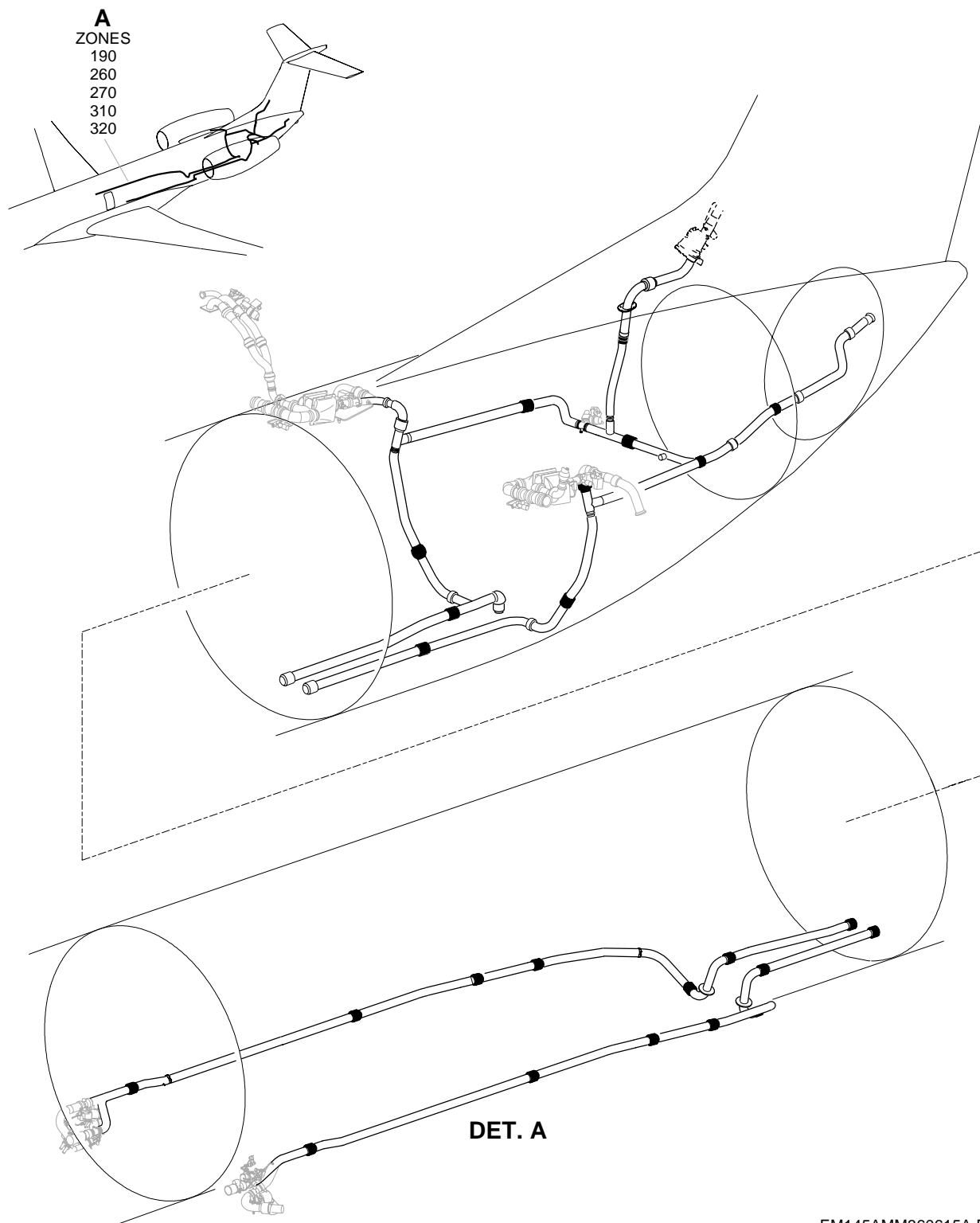
CAUTION: EXAMINE ALL THE WORK AREAS TO MAKE SURE THAT YOU REMOVED ALL TOOLS AND EQUIPMENT AFTER YOU COMPLETED THE WORK. IF YOU DO NOT OBEY THIS PROCEDURE, DAMAGE TO THE AIRCRAFT CAN OCCUR.

- (1) Do an operational test ([AMM TASK 36-00-00-700-803-A/500](#)).

EFFECTIVITY: ACFT MODEL(S) EMB-145

Air Conditioning System - Oil Contamination - Cleaning

Figure 702



EM145AMM360615A.DGN

TASK 21-20-00-100-805-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

4. CONDITIONED AIR DUCTS - OIL DECONTAMINATION - CLEANING

A. General

- (1) This task gives the procedure to decontaminate the air conditioning system with throttle-ahead engine operation after an oil leakage (from engines or APU) occurs.
- (2) When an oil leakage from APU occurs, you must to clean the APU bleed lines first and then clean the system with throttle-ahead engine operation, as applicable.
- (3) The cleaning of the air conditioning system can be done with air bled from the related (one side at a time) engine. If both lines were contaminated, you must to clean both sides. Do as applicable.
- (4) Make sure that the cause of the leakage was removed. Refer to FIM TASK 21-20-00-810-803-A, as applicable.
- (5) If the smell continues after this procedure, you must clean the distribution system. Refer to AMM TASK 21-20-00-100-803-A/700

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 21-20-00-100-803-A/700	-
AMM TASK 49-10-00-910-802-A/200	APU - START
AMM TASK 49-10-00-910-803-A/200	APU - SHUTDOWN
AMM TASK 49-13-00-910-802-A/200	APU - START
AMM TASK 49-13-00-910-803-A/200	APU - SHUTDOWN
AMM TASK 71-00-01-910-801-A/200	ENGINE START PROCEDURE (NORMAL)
AMM TASK 71-00-01-910-802-A/200	ENGINE START PROCEDURE (COLD WEATHER)
AMM TASK 71-00-01-910-804-A/200	ENGINE STOP PROCEDURE
FIM TASK 21-20-00-810-803-A	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	A - Does the task	Cockpit and passenger cabin

I. Preparation

SUBTASK 841-016-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Energize the aircraft with external DC-power supply ([AMM TASK 20-40-01-860-801-A/200](#)).

J. Cleaning Bleed System with air bled from the APU ([Figure 703](#))

SUBTASK 140-020-A

- (1) **NOTE:** Do this procedure to decontaminate the line from APU Bleed Valve, if there is a leakage of oil from APU.

Start the APU ([AMM TASK 49-10-00-910-802-A/200](#) for APU T-62T-40C11 or [AMM TASK 49-13-00-910-802-A/200](#) for APU T-62T-40C14).
- (2) Set the APU BLEED pushbutton to ON.
- (3) Set the PACK 1 pushbutton to ON.
- (4) Set the CKPT temperature selector to the MAN mode.
- (5) Turn the CKPT temperature selector fully counterclockwise (fully cold) and keep it in this position for 5 minutes.
- (6) Make sure there is no oil/fuel smell/smoke in the cockpit. If the smell continues, do step (5) again.
- (7) Set the PACK 1 pushbutton to OFF.
- (8) Return the CKPT temperature selector to the AUTO mode.
- (9) Set the XBLEED switch to OPEN.
- (10) Set the PACK 2 pushbutton to ON.
- (11) Set the CABIN temperature selector to the MAN mode.
- (12) Turn the PASS CABIN temperature selector fully counterclockwise (fully cold) and keep it in this position for 5 minutes.
- (13) Make sure there is no oil/fuel smell/smoke in the passenger cabin. If the smell continues, do step (12) again.
- (14) Set the PACK 2 pushbutton to OFF.

- (15) Return the CABIN temperature selector to the AUTO mode.
 - (16) Set the APU BLEED pushbutton to OFF.
 - (17) Set the XBLEED knob to AUTO.
 - (18) Shut down the APU ([AMM TASK 49-10-00-910-803-A/200](#) for APU T-62T-40C11 or [AMM TASK 49-13-00-910-803-A/200](#) for APU T-62T-40C14).
 - (19) To continue the decontamination, do steps K and/or L, as applicable.
- K. Cleaning of the air conditioning system with air bled from the LH engine ([Figure 703](#))
- SUBTASK 140-021-A*

WARNING: REFER TO THE GROUND SAFETY PRECAUTIONS GIVEN IN [AMM MPP 71-00-00/200](#) WHEN YOU DO THE ENGINE GROUND-RUN PROCEDURES.

- (1) Start the LH engine. Refer to [AMM TASK 71-00-01-910-801-A/200](#) or [AMM TASK 71-00-01-910-802-A/200](#).

NOTE: Additionally in the TAKEOFF data setting procedure, set T/O MODE, with the DEC/INC switch. Turn to DEC to set ALT T/O-1 mode.
- (2) Set the XBLEED knob to CLOSED.
- (3) Set the BLEED 1 pushbutton to ON.
- (4) Set the PACK 1 pushbutton to ON.
- (5) Set the CKPT temperature selector to the MAN mode.
- (6) Run the LH engine at ground idle.
- (7) Turn the CKPT temperature selector fully counterclockwise (fully cold) and keep it in this position for 5 minutes.
- (8) Turn the CKPT temperature selector fully clockwise (fully hot) and keep it in this position for 5 minutes.
- (9) Move the throttle lever to 75° TLA (THRUST SET position).
- (10) Turn the CKPT temperature selector fully counterclockwise (fully cold) and keep it in this position for 3 minutes.
- (11) Turn the CKPT temperature selector fully clockwise (fully hot) and keep it in this position for 2 minutes.
- (12) Put the LH engine back to ground idle.
- (13) Turn the CKPT temperature selector fully counterclockwise (fully cold) and keep it in this position for 1 minute.
- (14) Do steps (7) to (13) again.

NOTE: Make sure that there is no oil/fuel smell/smoke in the cockpit. If the smell continues, do steps (7) to (13) again.

- (15) Turn the CKPT temperature selector to the 12 o'clock position.
- (16) Set the PACK 1 pushbutton to OFF.
- (17) Set the CKPT temperature selector to the AUTO mode.
- (18) Set the BLEED 1 pushbutton to OFF.
- (19) Set the XBLEED knob to AUTO.
- (20) Stop the LH engine ([AMM TASK 71-00-01-910-804-A/200](#)).

L. Cleaning of the air conditioning system with air bled from the RH engine ([Figure 703](#))

SUBTASK 140-022-A

WARNING: REFER TO THE GROUND SAFETY PRECAUTIONS GIVEN IN [AMM MPP 71-00-00/200](#) WHEN YOU DO THE ENGINE GROUND-RUN PROCEDURES.

- (1) Start the RH engine. Refer to [AMM TASK 71-00-01-910-801-A/200](#) or [AMM TASK 71-00-01-910-802-A/200](#).

NOTE: Additionally in the TAKEOFF data setting procedure, set T/O MODE, with the DEC/INC switch. Turn to DEC to set ALT T/O-1 mode.

- (2) Set the XBLEED knob to CLOSED.
- (3) Set the BLEED 2 pushbutton to ON.
- (4) Set the PACK 2 pushbutton to ON.
- (5) Set the PASS CABIN temperature selector to the MAN mode.
- (6) Run the RH engine at ground idle.
- (7) Turn the PASS CABIN temperature selector fully counterclockwise (fully cold) and keep it in this position for 5 minutes.
- (8) Turn the PASS CABIN temperature selector fully clockwise (fully hot) and keep it in this position for 5 minutes.
- (9) Move the throttle lever to 75° TLA (THRUST SET position).
- (10) Turn the PASS CABIN temperature selector fully counterclockwise (fully cold) and keep it in this position for 3 minutes.
- (11) Turn the PASS CABIN temperature selector fully clockwise (fully hot) and keep it in this position for 2 minutes.
- (12) Put the RH engine back to ground idle.
- (13) Turn the PASS CABIN temperature selector fully counterclockwise (fully cold) and keep it in this position for 1 minute.
- (14) Do steps (7) to (13) again.

NOTE: Make sure that there is no oil/fuel smell/smoke in the cockpit. If the smell continues, do steps (7) to (13) again.

- (15) Turn the PASS CABIN temperature selector to the 12 o'clock position.
- (16) Set the PACK 2 pushbutton to OFF.
- (17) Move the PASS CABIN temperature selector back to the AUTO mode.
- (18) Set the BLEED 2 pushbutton to OFF.
- (19) Set the XBLEED knob to AUTO.
- (20) Stop the RH engine ([AMM TASK 71-00-01-910-804-A/200](#)).

M. Follow-on

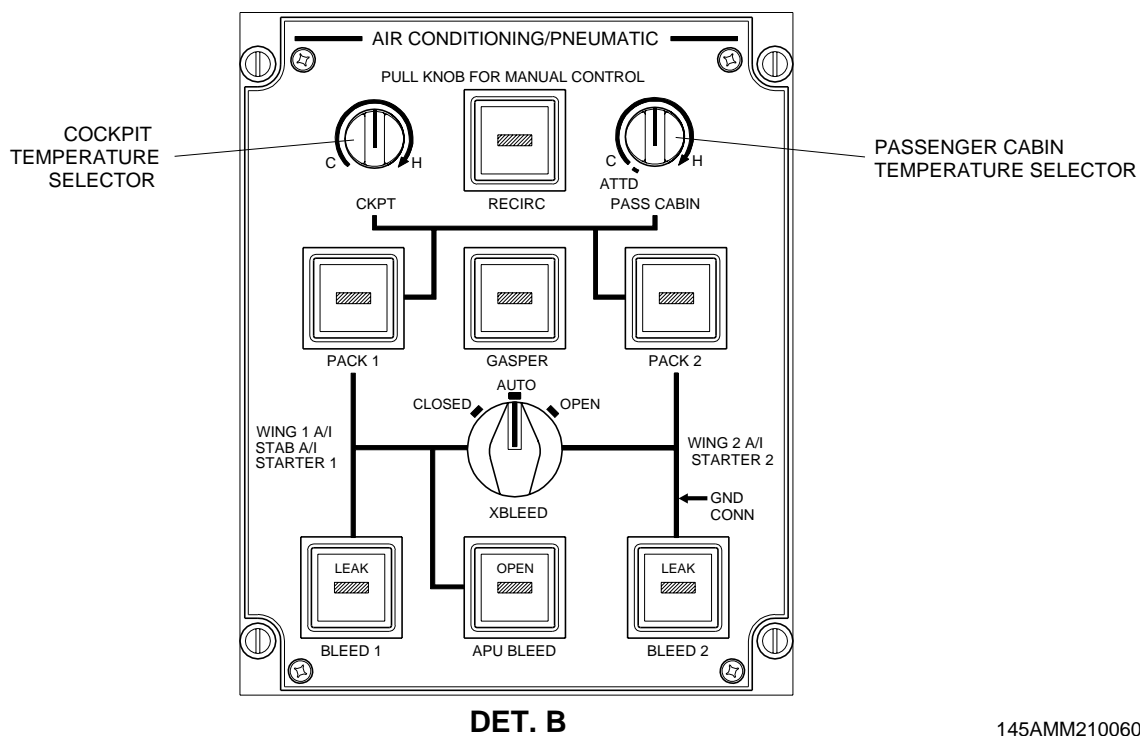
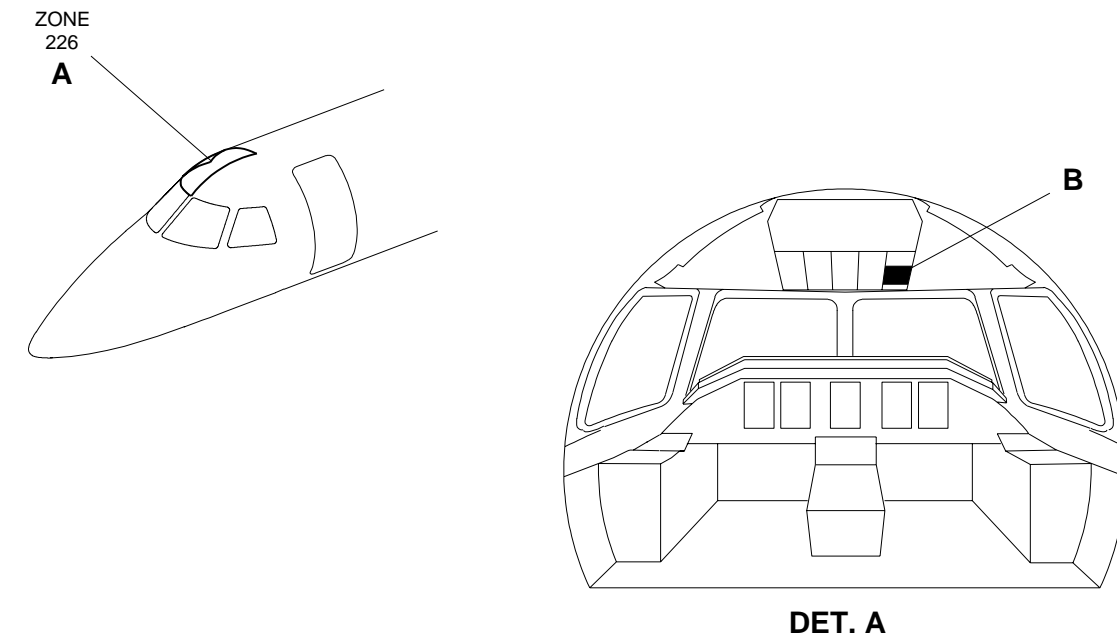
SUBTASK 842-016-A

- (1) De-energize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

EFFECTIVITY: ACFT MODEL(S) EMB-145

Conditioned Air Ducts - Cleaning

Figure 703



145AMM210060.MCE B