INTERBULKHEAD ASSEMBLY - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

   A. This section gives the procedures to do the functional check of the interbulkhead assembly of the engine thermal anti-icing system for leakage.

   B. 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*
30-20-01-700-801-A ♦	ENGINE THERMAL ANTI-ICING INTER-BULKHEAD ASSEMBLY - FUNCTIONAL CHECK	ALL

TASK 30-20-01-700-801-A
EFFECTIVITY: ALL

2. ENGINE THERMAL ANTI-ICING INTERBULKHEAD ASSEMBLY - FUNCTIONAL CHECK

A. General

(1) The interbulkhead assembly has the supply duct and the shroud. You can get access to the shroud test port through an access panel in the top skin of the engine air intake.

B. References

REFERENCE	*DESIGNATION*
AMM MPP 06-43-00/100	- COMPONENT LOCATION
SRM 51-20-01	-

C. Zones and Accesses

ZONE	*PANEL/DOOR*	*LOCATION*
411	411AT	LH engine
421	421AT	RH engine

D. Tools and Equipment

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
GSE 081	Box-Leakage test	To apply measured pressure to the inter-bulkhead assembly	
GSE 115	Hose assembly	To connect the leakage test box to dry and filtered compressed air source	
GSE 116	Hose assembly	To connect the leakage test box to the connection MS24399D7 and the shroud	
MS24399D7	Connection	To connect GSE 116 to the shroud	

E. Auxiliary Items

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
Commercially available	Ladder	To access the test port	1
Commercially available	Dry and filtered compressed air source	To pressurize the interbulkhead assembly	AR

F. Consumable Materials

SPECIFICATION (BRAND)	*DESCRIPTION*	*QTY*
MS20995C20	Lockwire	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	*FUNCTION*	*PLACE*
1	Does the task	LH/RH Engine

I. Preparation

SUBTASK 841-002-A

(1) Before you connect the leakage test box to the shroud port test of the interbulkhead assembly, do the procedure to adjust the leakage test box (Figure 501):

(a) Make sure that there is no moisture and no foreign matter in the inlet filter of the leakage test box.

(b) Install the cap of the LH side of the leakage test box to the outlet fitting in the Shop/Air Bottle Outlet.

(c) Turn the pressure regulator knob fully counterclockwise (-).

(d) Keep the source of compressed air closed.

CAUTION: MAKE SURE THAT THE PRESSURE REGULATOR KNOB OF THE TEST BOX (GSE 081) IS FULLY CLOSED IN THE COUNTERCLOCKWISE POSITION BEFORE YOU CONNECT THE SOURCE OF COMPRESSED AIR. IF YOU DO NOT OBEY THIS PROCEDURE DAMAGE TO THE EQUIPMENT CAN OCCUR.

(e) Connect a source of compressed air to Shop/Air Inlet in RH side of the leakage test box.

(f) Move the operation selector lever to the PRESSURE position and turn the pressure regulator knob clockwise (+) until you get an indication of 50 psi on the pressure gauge.

(g) Shut off the source of compressed air.

(h) Disconnect the source of compressed air from the leakage test box.

(i) Remove the cap of the LH side of the leakage test box.

(j) Push the operation selector lever to the ESCAPE position until the pressure gauge shows zero.

(2) Remove sealant P/S-870 B2 or P/S-870 B½ (SRM 51-20-01).

(3) Remove access panels 411AT and 421AT (AMM MPP 06-43-00/100).

(4) Cut the lockwire to remove the shroud port test.

(5) Remove the plug from the shroud port test.

(6) Install hoses GSE 116 and GSE 115 to leakage test box GSE 081 (Figure 502).

(7) Connect the source of compressed air to the leakage test box (GSE 081).

(8) Install connection MS24399D7 and hose GSE 116 to the shroud port test (Figure 501).

J. Functionally Check Engine Thermal Anti-Ice (TAI) Interbulkhead Assembly for Leakage (Figure 501) (Figure 502)

SUBTASK 720-002-A

(1) To pressurize the shroud port test, move the selector lever of the leakage test box (GSE 081) to the PRESSURE position and turn the pressure regulator knob clockwise until you have a pressure of 50 psi.

(2) When the pressure becomes stable at 50 psi, release the leakage test box lever to shut off the pressure supply.

(3) After 5 minutes, read the leakage test box gauge to make sure the pressure is between 50 and 20 psi.

NOTE: Five minutes after the source is shut off, the pressure must not be less than 20 psi.

K. Follow-on

SUBTASK 842-002-A

(1) Move the selector lever of the leakage test box (GSE 081) to the ESCAPE position.

(2) Disconnect connection MS24399D7 from the shroud port test.

(3) Disconnect hose GSE 116 from leakage test box GSE 081 and connection MS24399D7.

(4) Disconnect hose GSE 115 from the leakage test box (GSE 081).

(5) Install the plug to the shroud port test with a torque of 17.51 - 18.64 N.m (155-165 lbf.in).

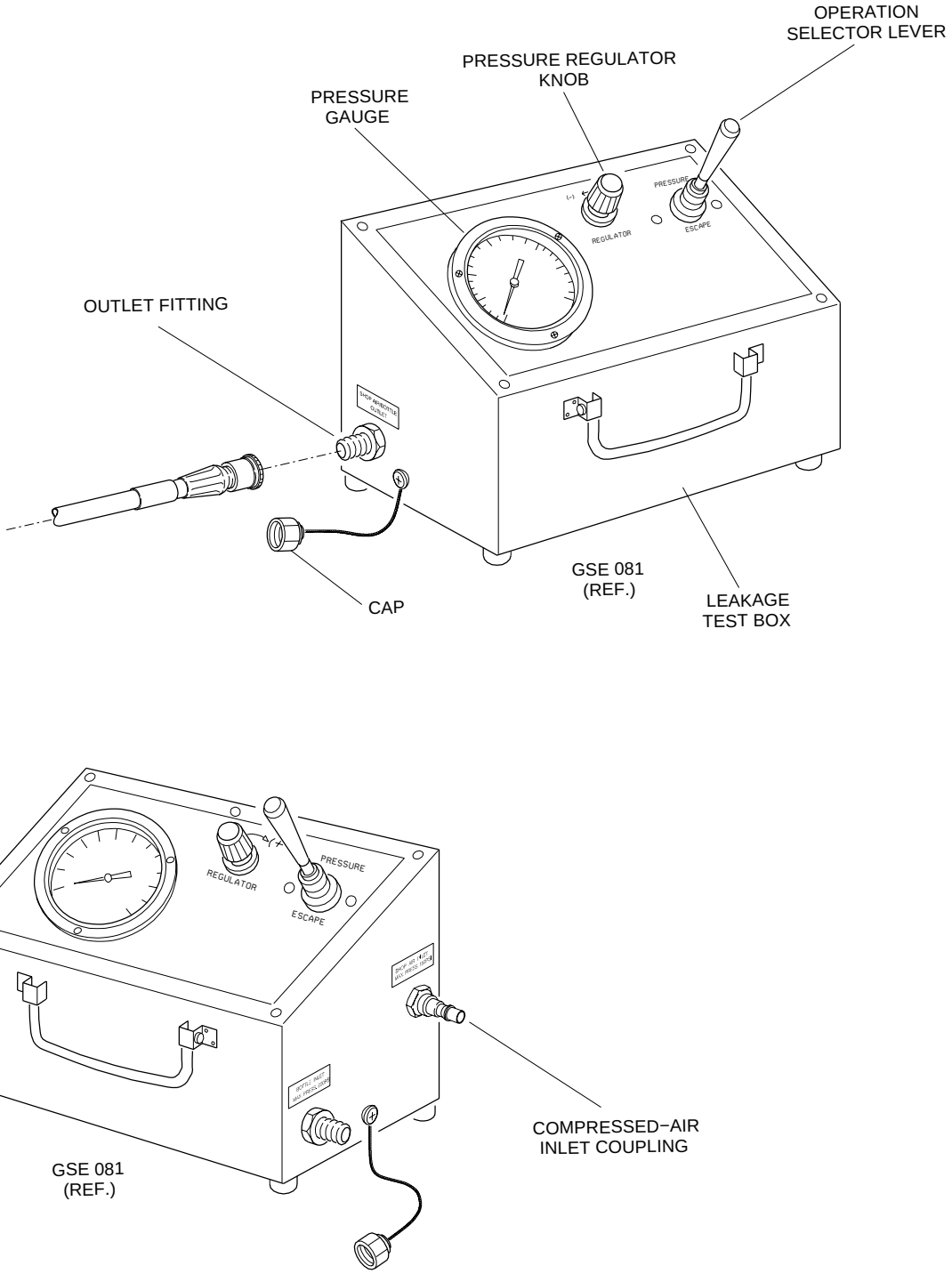
(6) Safety the plug to the shroud port test with the lockwire (MS20995C20).

(7) Install access panels 411AT and 421AT (AMM MPP 06-43-00/100).

(8) Apply sealant P/S-870 B2 or P/S-870 B½ (SRM 51-20-01).

EFFECTIVITY: ALL

Leakage Test Box - Component Locations
Figure 501



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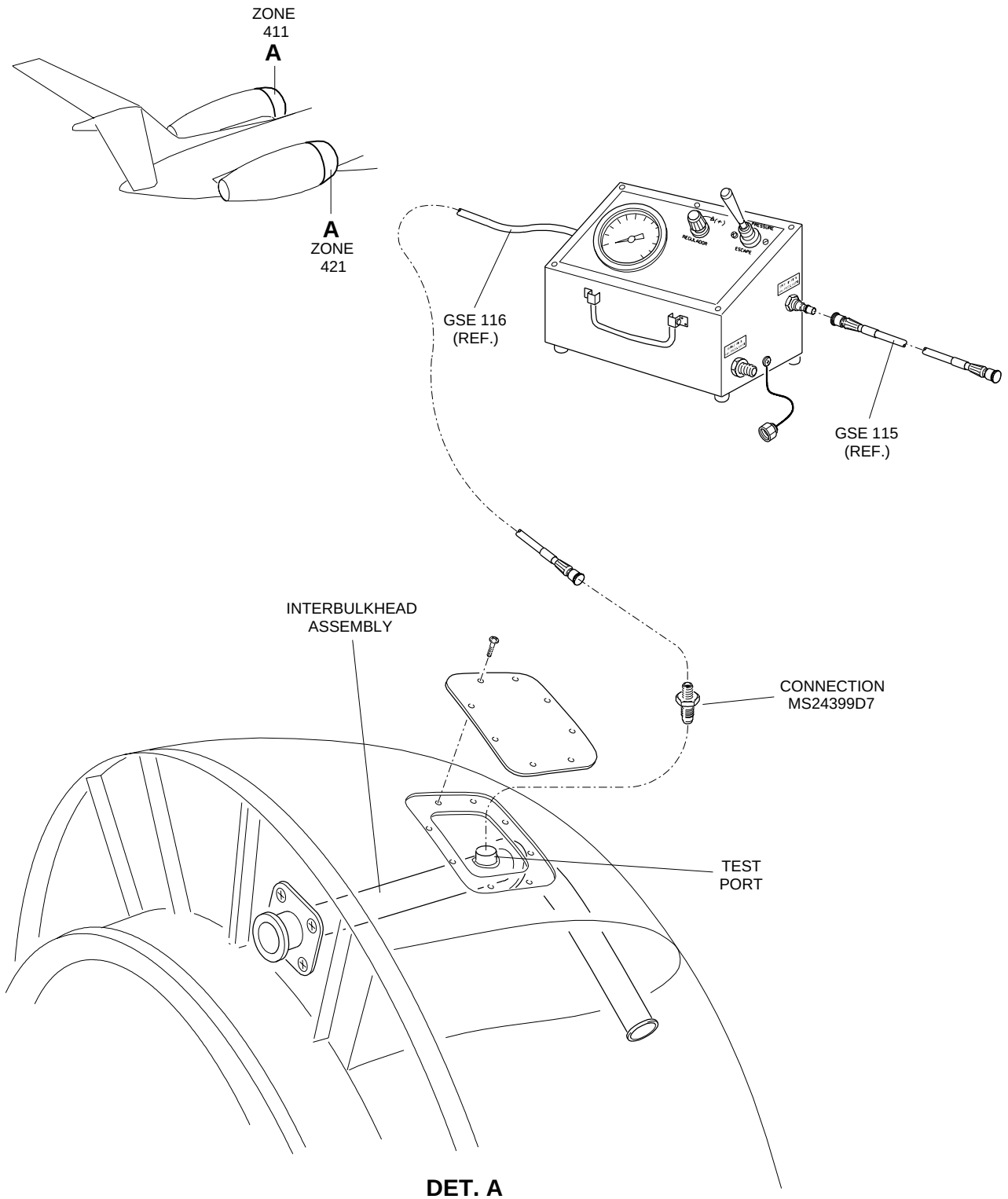
EFFECTIVITY: ALL

Interbulkhead Assembly - Component Locations
Figure 502



DET. A

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