



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

APU AIR INLET DUCT - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do an inspection on the APU air-inlet duct.
- 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
49-16-02-200-801-A	APU AIR-INLET DUCT - INSPECTION	FOR AIRCRAFT WITHOUT EXHAUST SILENCER
49-16-02-200-802-A	AIR-INLET SEAL/AIR-INLET DUCT INTER-FACE CLEARANCE/MISALIGNMENT- IN-SPECTION	FOR AIRCRAFT WITH APU T-62T-40C14 AND APU COWLING WITH SILENCER



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TASK 49-16-02-200-801-A

EFFECTIVITY: FOR AIRCRAFT WITHOUT EXHAUST SILENCER

2. APU AIR-INLET DUCT - INSPECTION

A. General

- (1) Obey these instructions to do an inspection on the APU air-inlet assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 49-11-00-000-801-A/400	APU COWLING - REMOVAL
AMM TASK 49-11-00-400-801-A/400	APU COWLING - INSTALLATION
AMM TASK 49-15-00-000-801-A/400	APU COWLING - REMOVAL
AMM TASK 49-15-00-400-801-A/400	APU COWLING - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313	313CL	APU

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the APU work area	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	APU work area

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the APU FUEL SOV circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) On the left power control and distribution box, open the APU GEN START circuit breaker and attach a DO-NOT-CLOSE tag to it.



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- (3) Put the workstand under the APU work area.
- (4) Remove the APU cowling ([AMM TASK 49-11-00-000-801-A/400](#) or [AMM TASK 49-15-00-000-801-A/400](#)), as applicable.

J. Inspection of APU Air Inlet Assembly (Duct, Screen and Seal) ([Figure 601](#))

SUBTASK 212-002-A

- (1) Do a visual inspection on the duct, screen, and seal of the APU air intake installed at the APU cowling. Repair or replace the defective parts, as applicable.
- (2) Do a visual inspection on the duct and sealing surface of the APU air inlet installed at the APU. Repair or replace the defective parts, as applicable.

K. Follow-on

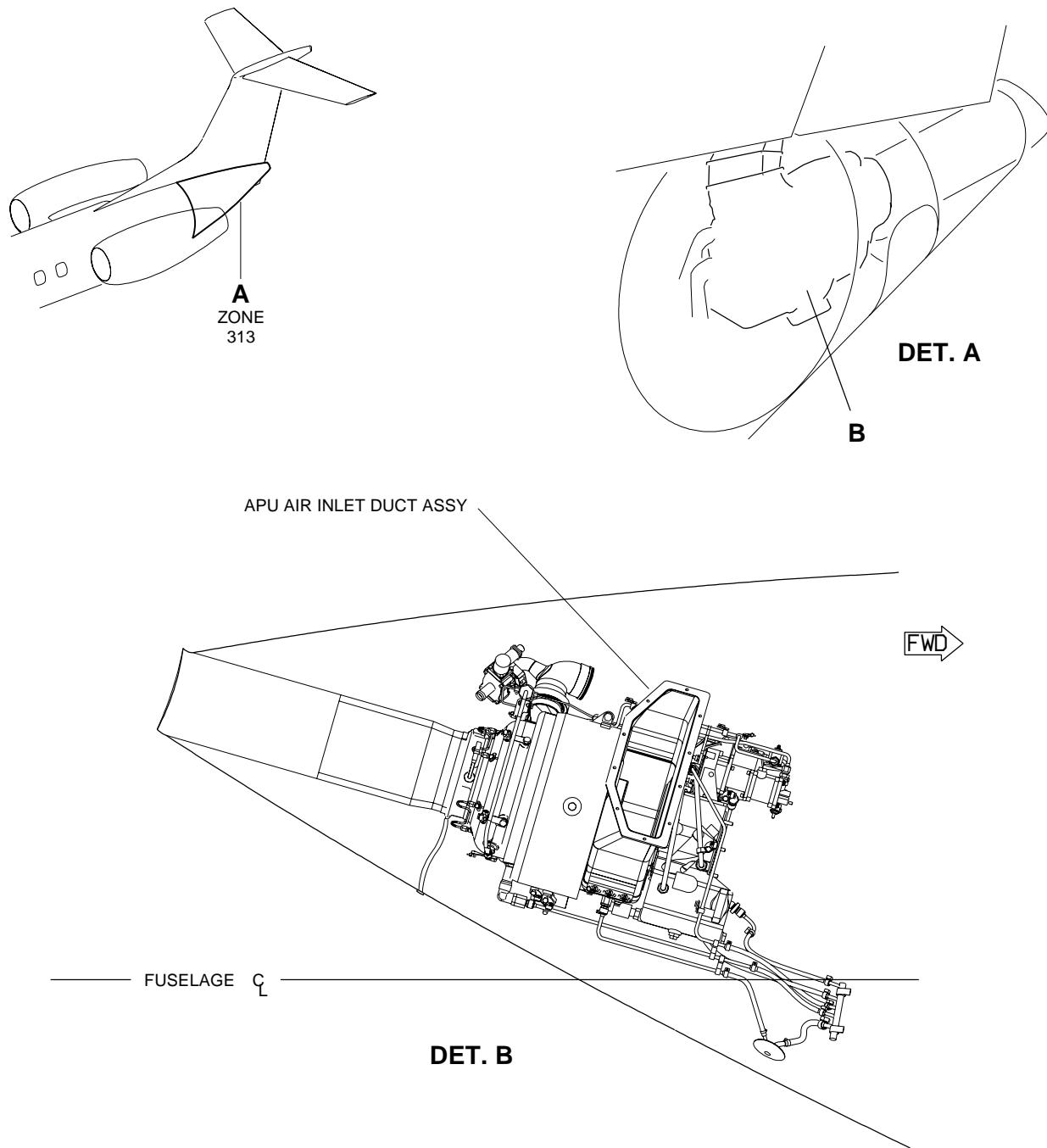
SUBTASK 842-002-A

- (1) Install the APU cowling ([AMM TASK 49-11-00-400-801-A/400](#) or [AMM TASK 49-15-00-400-801-A/400](#)), as applicable.
- (2) Remove the DO-NOT-CLOSE tag and close the APU FUEL SOV circuit breaker.
- (3) On the left power control and distribution box, remove the DO-NOT-CLOSE tag and close the APU GEN START circuit breaker.
- (4) Remove the workstand from the APU work area.

EFFECTIVITY: FOR AIRCRAFT WITHOUT EXHAUST SILENCER

APU Air Inlet Duct - Inspection

Figure 601



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TASK 49-16-02-200-802-A

EFFECTIVITY: FOR AIRCRAFT WITH APU T-62T-40C14 AND APU COWLING WITH SILENCER

3. AIR-INLET SEAL/AIR-INLET DUCT INTERFACE CLEARANCE/MISALIGNMENT- INSPECTION

A. General

- (1) Obey these instructions to do an inspection for clearance and/or misalignment on the air-inlet seal/air-inlet duct interface.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM TASK 49-16-04-000-801-A/400	APU AIR-INLET SILENCER SEAL - REMOVAL
AMM TASK 49-16-04-400-801-A/400	APU AIR-INLET SILENCER SEAL - INSTALLATION
AMM TASK 53-32-00-000-801-A/400	TAIL CONE - REMOVAL
AMM TASK 53-32-00-400-801-A/400	TAIL CONE - INSTALLATION
IPC 49-16-00	APU AIR INTAKE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313	313CL	APU

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the APU work area	1

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Shim	IPC 49-16-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	APU work area



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I. Preparation

SUBTASK 841-003-A

- (1) On the circuit breaker panel, open the APU FUEL SOV circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) On the left power control and distribution box, open the APU GEN START circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (3) Put the workstand under the APU work area.
- (4) Open access door 313CL (AMM MPP 06-42-00/100).
- (5) Remove the tail cone ([AMM TASK 53-32-00-000-801-A/400](#)).

NOTE: For this procedure, the rudder must be out of its neutral position.

J. Air-Inlet Seal/Air-Inlet Duct Interface Clearance/Misalignment- Visual Inspection ([Figure 602](#)) ([Figure 603](#))

SUBTASK 212-003-A

- (1) Loosen the bolts that attach the APU starter-generator air outlet to the right side of the APU cowling.
- (2) Do a visual inspection from the APU cowling rear and from the opening of the APU starter-generator exhaust-duct air outlet. Make sure that there is no clearance and/or misalignment between the air inlet duct and the air inlet seal. Refer to DET. C of [Figure 602](#).
- (3) If you find a clearance, do these steps to remove it (see [Figure 602](#)):
 - (a) Remove the APU air-inlet silencer seal ([AMM TASK 49-16-04-000-801-A/400](#)).
 - (b) Install one or more shims, as necessary, on the APU air-inlet duct and then install the APU air-inlet silencer seal back ([AMM TASK 49-16-04-400-801-A/400](#)).
 - (c) Put the APU air inlet back to its initial configuration.
 - (d) Install the bolts that attach the APU starter-generator air outlet to the right side of the APU cowling.
- (4) If you find a misalignment, do these steps to remove it (see [Figure 603](#)):
 - (a) Loosen the fasteners (2) from the APU air-inlet duct (1).

CAUTION: DO NOT MOVE THE APU AIR-INLET DUCT BEFORE YOU LOOSEN THE FASTENERS AND DO NOT AXIALLY MOVE THE APU AIR-INLET DUCT. IF YOU DO NOT OBEY THESE PRECAUTIONS, DAMAGE TO THE APU AIR-INLET DUCT O-RINGS WILL OCCUR.

- (b) Hold the APU air-inlet duct and move it radially to align the air inlet duct with the air inlet seal.
- (c) Tighten the fasteners (2) back.



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K. Follow-on

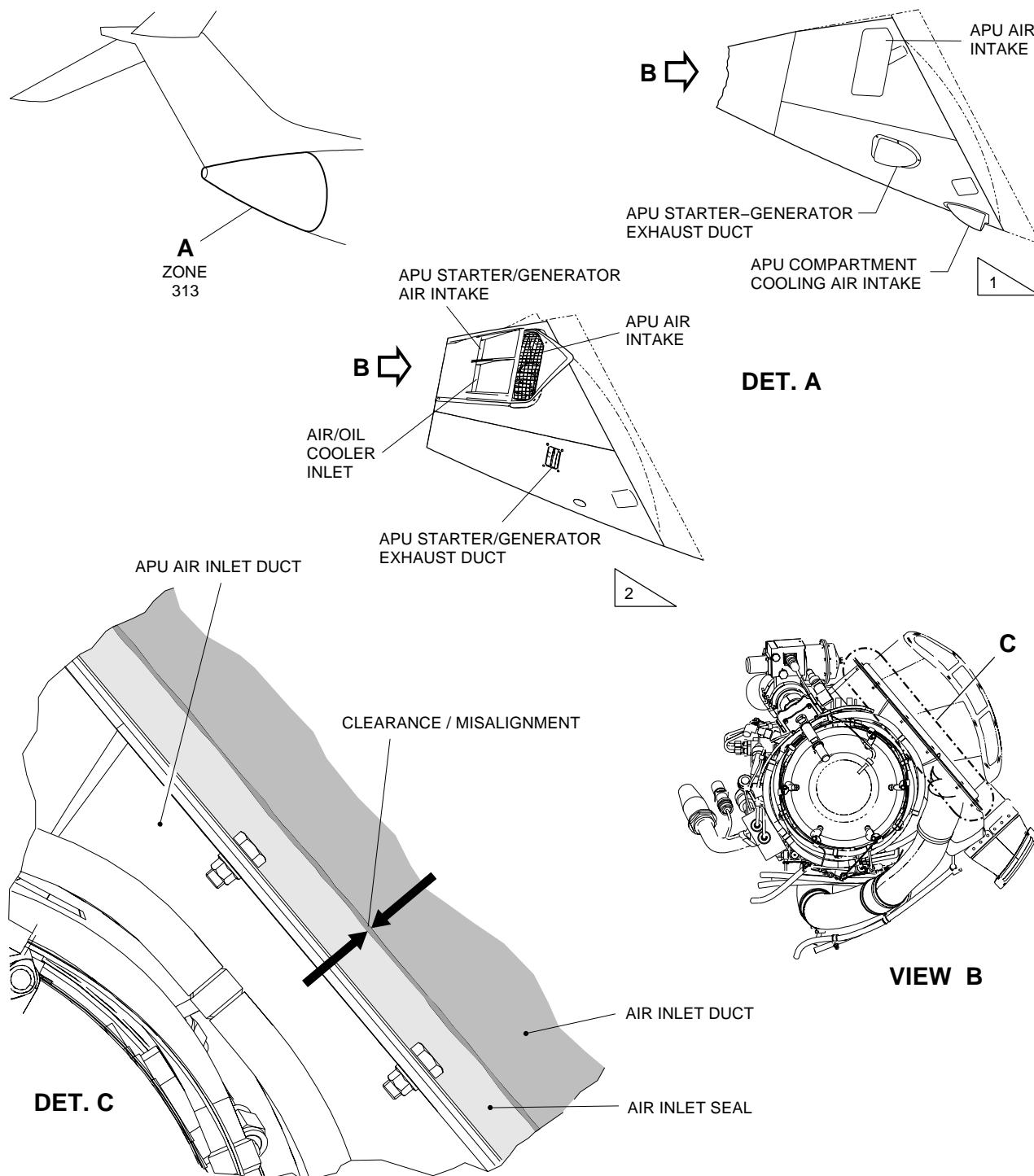
SUBTASK 842-003-A

- (1) Install the tail cone ([AMM TASK 53-32-00-400-801-A/400](#)).
- (2) Close access door 313CL (AMM MPP 06-42-00/100).
- (3) Remove the DO-NOT-CLOSE tag and close the APU FUEL SOV circuit breaker.
- (4) On the left power control and distribution box, remove the DO-NOT-CLOSE tag and close the APU GEN START circuit breaker.
- (5) Remove the workstand from the APU work area.

EFFECTIVITY: FOR AIRCRAFT WITH APU T-62T-40C14 AND APU COWLING WITH SILENCER

Air-Inlet Seal/Air-Inlet Duct Interface Clearance - Visual Inspection

Figure 602

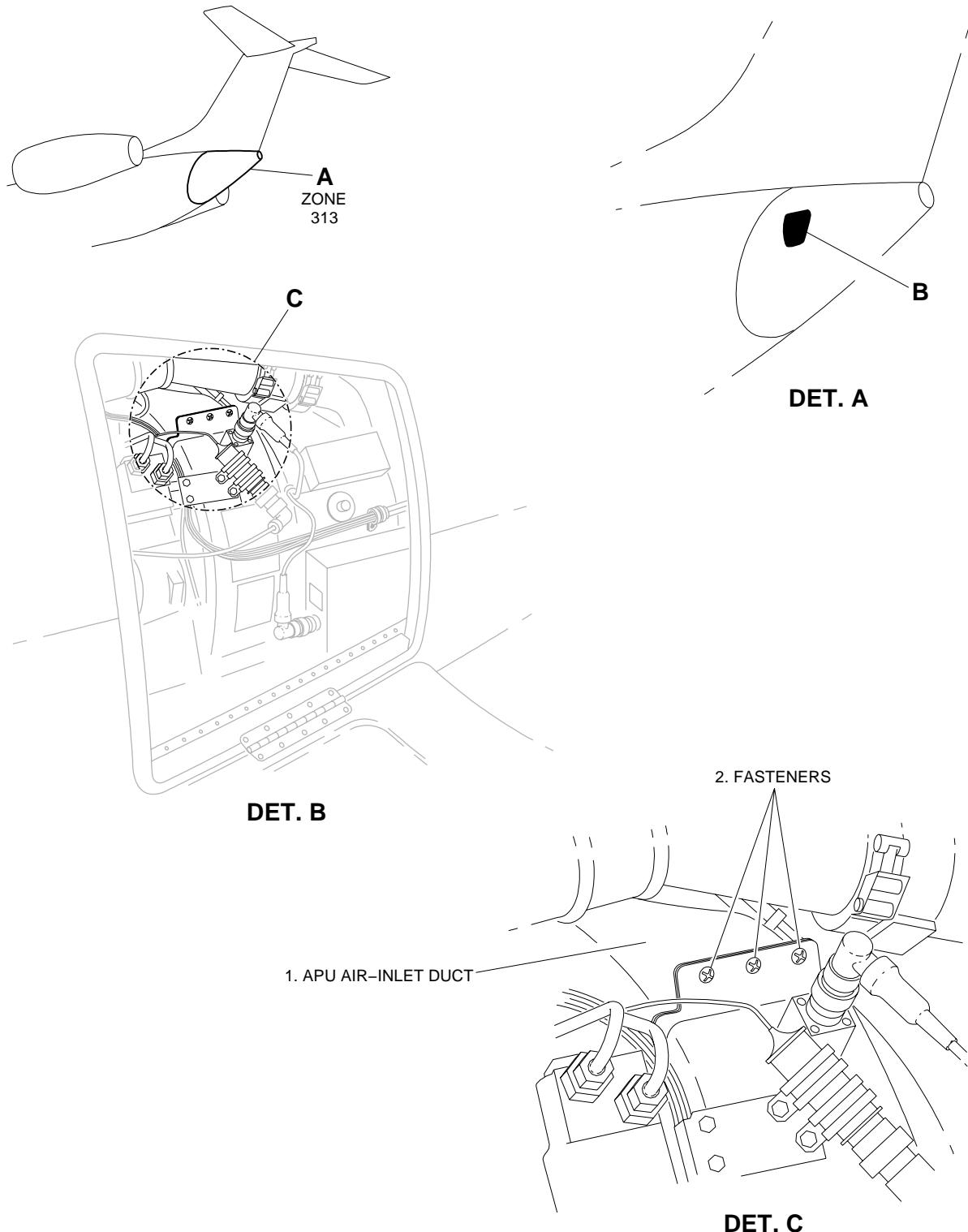


1 VALID FOR AIRCRAFT WITH APU COWLING WITH SILENCER
EXCEPT 145-54858-SERIES COWLING.

2 VALID FOR AIRCRAFT WITH APU COWLING 145-54858 SERIES.

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EFFECTIVITY: FOR AIRCRAFT WITH APU T-62T-40C14 AND APU COWLING WITH SILENCER
 Air-Inlet Seal/Air-Inlet Duct Interface Misalignment - Visual Inspection
 Figure 603



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