

**APU BLEED VALVE&FLOW LIMITING VENTURI - REMOVAL/INSTALLATION**

*EFFECTIVITY: AIRCRAFT WITH T-62T-40C11*

1. General

- A. This section gives the procedures to remove/install the APU bleed valve and flow-limiting venturi.
- 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
36-12-01-000-801-A	APU BLEED VALVE AND FLOW-LIMITING VENTURI - REMOVAL	AIRCRAFT WITH T-62T-40C11
36-12-01-400-801-A	APU BLEED VALVE AND FLOW-LIMITING VENTURI - INSTALLATION	AIRCRAFT WITH T-62T-40C11
36-12-01-040-801-A	APU BLEED VALVE AND FLOW-LIMITING VENTURI - DEACTIVATION	AIRCRAFT WITH T-62T-40C11
36-12-01-440-801-A	APU BLEED VALVE AND FLOW-LIMITING VENTURI - REACTIVATION	AIRCRAFT WITH T-62T-40C11

TASK 36-12-01-000-801-A

EFFECTIVITY: AIRCRAFT WITH T-62T-40C11

## 2. APU BLEED VALVE AND FLOW-LIMITING VENTURI - REMOVAL

### A. General

- (1) Obey the instructions that follow to remove the APU bleed valve and flow-limiting venturi.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 49-11-00-000-801-A/400</a>	APU COWLING - REMOVAL

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313	313	APU

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
	Workstand	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*

**WARNING: MAKE SURE THAT THE APU CONTROL MASTER SWITCH IS IN THE “OFF” POSITION TO PREVENT AN APU ACCIDENTAL OPERATION.**

- (1) On the circuit breaker panel, open these circuit breakers and attach DO-NOT-CLOSE tags to them:
  - APU BLEED VALVE (Location tip: ESSENTIAL DC BUS 1 / APU BLEED VALVE).
  - APU CONTROL (Location tip: ESSENTIAL DC BUS2 / APU / CONTROL).
  - APU FUEL SOV (Location tip: ESSENTIAL DC BUS2 / APU / FUEL SOV).

- (2) Remove the APU cowling ( [AMM TASK 49-11-00-000-801-A/400](#)).

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

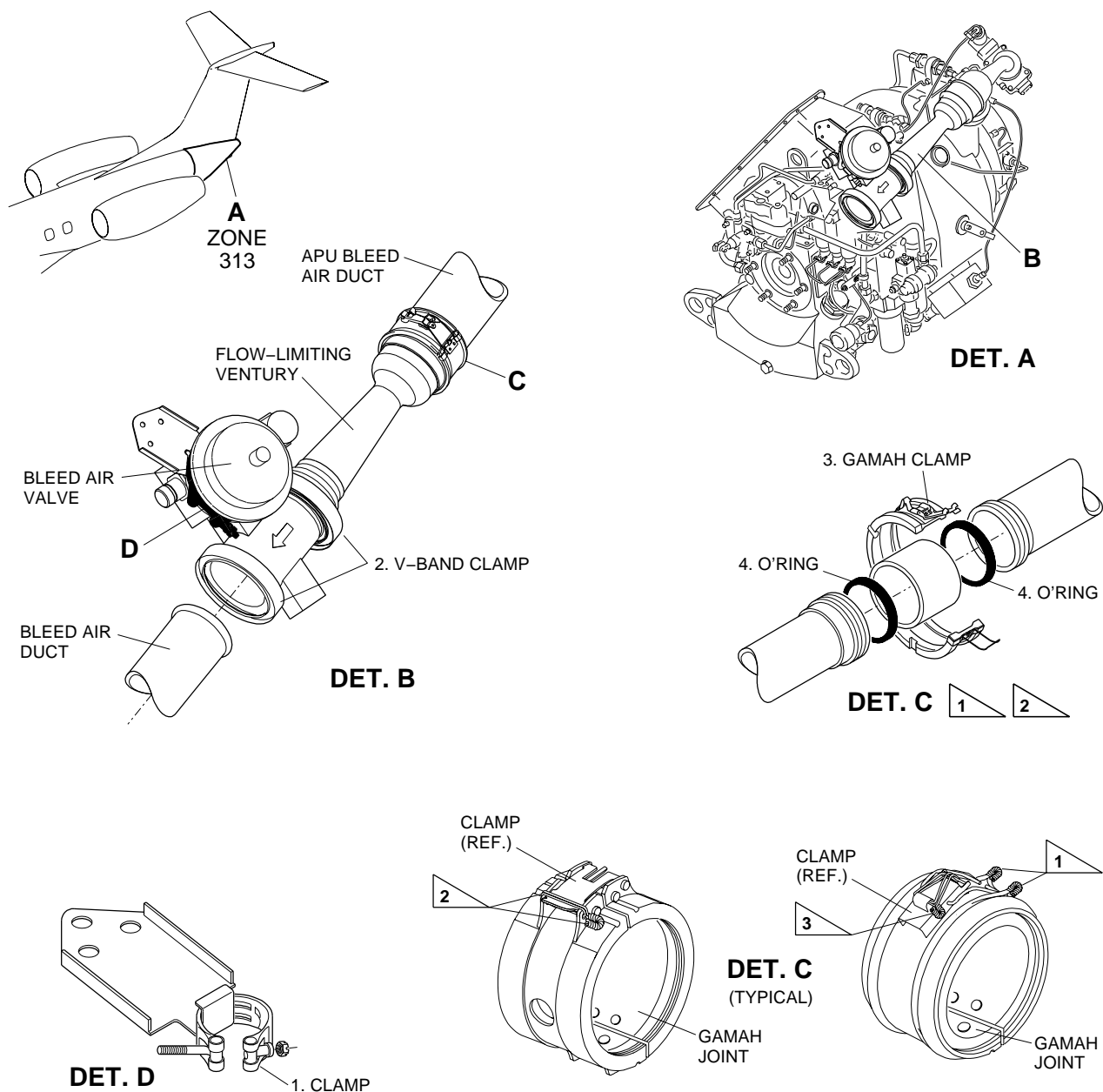
*SUBTASK 020-002-A*

- (1) Disconnect the electrical connector from the APU bleed valve.
- (2) Loosen the clamp (1) and V-band clamps (2) to disconnect the APU bleed valve.
- (3) Move the APU bleed valve away.
- (4) Remove lockwire (3).
- (5) Remove the Gamah clamp (4) with O-rings (5) to disconnect the flow-limiting venturi.
- (6) Discard the old O-rings (5).
- (7) Remove the flow-limiting venturi.

EFFECTIVITY: AIRCRAFT WITH T-62T-40C11

APU Bleed Valve and Flow-Limiting Venturi - Removal/Installation

Figure 401



- 1 (APPLICABLE TO GAMAH JOINT P/N CA33015) APPLY TWO TURNS OF LOCKING WIRE AT EACH POSITION
- 2 (APPLICABLE TO GAMAH JOINT P/N CA36015C) APPLY LOCKING WIRE UNDER CLAMP LOCKING ELEMENT
- 3 APPLY LOCKING WIRE UNDER CLAMP LOCKING ELEMENT

EM145AMM490075B.DGN

TASK 36-12-01-400-801-A

EFFECTIVITY: AIRCRAFT WITH T-62T-40C11

### 3. APU BLEED VALVE AND FLOW-LIMITING VENTURI - INSTALLATION

#### A. General

- (1) Install the APU bleed valve and flow-limiting venturi. Connect the aircraft ducts with V-band clamps and O-rings. Make sure that the arrow in the components points forward.

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM MPP 49-00-00/200</a>	- MAINTENANCE PRACTICES
<a href="#">AMM TASK 49-11-00-400-801-A/400</a>	APU COWLING - INSTALLATION
IPC 36-12-01	APU BLEED VALVE

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313	313	APU

#### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To torque the clamps	

#### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
	Workstand	To get access to the APU work area	1

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote 33 (Dow Corning)	Lubricant Grease	AR
MS20995C20	Lockwire	AR

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 36-12-01	2

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	APU work area

I. Installation (Figure 401)

*SUBTASK 420-002-A*

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN ( [AMM MPP 49-00-00/200](#)) TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.**

- (1) Put the flow-limiting venturi in position on the APU bleed air duct.
- (2) Apply a light coat of lubricant to the new O-rings (5).
- (3) Install the Gamah clamp (4) with O-rings (5) to connect the flow-limiting venturi to the APU bleed air duct.
- (4) Install the lockwire (3).
- (5) Put the APU bleed valve in position between the flow-limiting venturi and the customer bleed air duct.
- (6) Attach the clamp (1) and V-band clamps (2) to connect the APU bleed valve.
- (7) Tighten the V-band clamps (2).
- (8) Connect the electrical connector to the APU bleed valve.

J. Follow-on

*SUBTASK 842-002-A*

- (1) Remove the DO-NOT-CLOSE tags and close these circuit breakers.
  - APU BLEED VALVE (Location tip: ESSENTIAL DC BUS 1 / APU BLEED VALVE).
  - APU CONTROL (Location tip: ESSENTIAL DC BUS2 / APU / CONTROL).
  - APU FUEL SOV (Location tip: ESSENTIAL DC BUS2 / APU / FUEL SOV).
- (2) Install the APU cowling ( [AMM TASK 49-11-00-400-801-A/400](#)).

TASK 36-12-01-040-801-A

EFFECTIVITY: AIRCRAFT WITH T-62T-40C11

#### 4. APU BLEED VALVE AND FLOW-LIMITING VENTURI - DEACTIVATION

##### A. General

(1) This task gives the procedure to deactivate the APU bleed valve and flow-limiting venturi.

(a) It is permitted to dispatch the aircraft with the APU bleed valve inoperative if:

- the valve is closed;
- the APU bleed is not used.

##### B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
<a href="#">AMM MPP 49-00-00/200</a>	- MAINTENANCE PRACTICES
WM 36-12-50	-

##### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313	313	APU

##### D. Tools and Equipment

Not Applicable

##### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
	Workstand	To get access to the APU work area	1

##### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS3367-5-9	Tiedown Strap	AR
DR-25-1	Heat-Shrinkable Spaghetti	350 mm

##### G. Expandable Parts

Not Applicable

##### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	APU work area

I. Preparation

SUBTASK 841-003-A

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN ( AMM MPP 49-00-00/200) TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.**

- (1) On the circuit breaker panel, open these circuit breakers and attach DO-NOT-CLOSE tags to them:
  - APU BLEED VALVE (Location tip: ESSENTIAL DC BUS 1 / APU BLEED VALVE).
  - APU CONTROL (Location tip: ESSENTIAL DC BUS2 / APU / CONTROL).
  - APU FUEL SOV (Location tip: ESSENTIAL DC BUS2 / APU / FUEL SOV).
- (2) Put the workstand below the aircraft tail cone.
- (3) Open APU cowling access panel 313CL (AMM MPP 06-42-00/100).

J. APU Bleed Valve and Flow-Limiting Venturi - Deactivation Procedure (Figure 401)

SUBTASK 040-002-A

- (1) Remove the electrical connector from the APU Bleed Valve and Flow-Limiting Venturi (WM 36-12-50).
- (2) Fasten the electrical connector as a protection as follows:
  - (a) **NOTE:** This procedure prevents friction between the connector and adjacent parts.

Cut a 350-mm length of heat-shrinkable spaghetti.
  - (b) Slide half of the spaghetti to cover all the connector head.
  - (c) Fold the other half and attach the two ends of the spaghetti with tiedown strap.
  - (d) Attach the connector head to the adjacent harness with tiedown straps. The connector must be pointed down.
  - (e) Make sure that the connector is correctly attached and will not move away position during operation.

K. Follow-on

SUBTASK 842-003-A

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN ( AMM MPP 49-00-00/200) TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.**

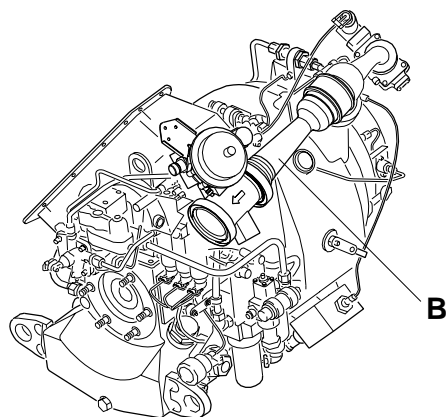
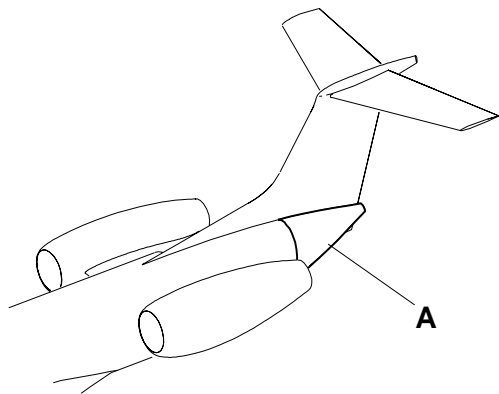
- (1) **NOTE:** Make sure that the valve is in closed position.

Close APU cowling access panel 313CL (AMM MPP 06-42-00/100).
- (2) Remove the workstand below the aircraft tail cone.

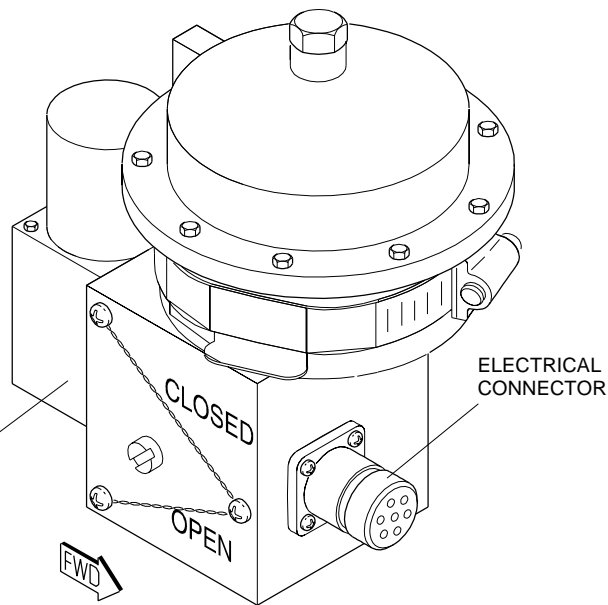
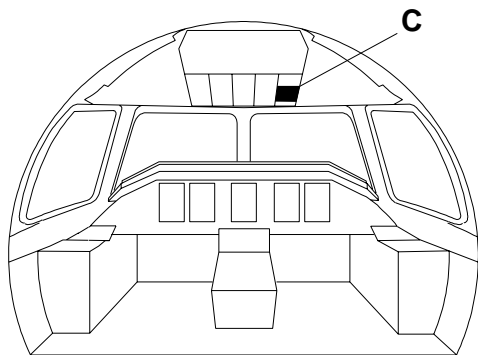


- (3) Remove the DO-NOT-CLOSE tags and close these circuit breakers.
- APU BLEED VALVE (Location tip: ESSENTIAL DC BUS 1 / APU BLEED VALVE).
  - APU CONTROL (Location tip: ESSENTIAL DC BUS2 / APU / CONTROL).
  - APU FUEL SOV (Location tip: ESSENTIAL DC BUS2 / APU / FUEL SOV).

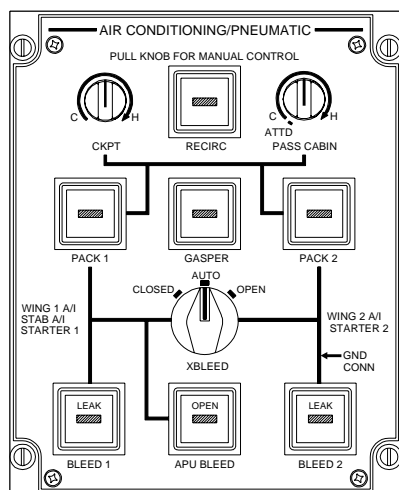
EFFECTIVITY: AIRCRAFT WITH T-62T-40C11  
APU Bleed Valve and Flow-Limiting Venturi - Deactivation  
Figure 402



DET. A



DET. B



DET. C

EM145AMM360476A.DGN

TASK 36-12-01-440-801-A

EFFECTIVITY: AIRCRAFT WITH T-62T-40C11

5. APU BLEED VALVE AND FLOW-LIMITING VENTURI - REACTIVATION

A. General

(1) This task gives the instructions to reactivate the APU Bleed Valve and Flow-Limiting Venturi.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM MPP 49-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 49-10-00-910-802-A/200	APU - START
AMM TASK 49-10-00-910-803-A/200	APU - SHUTDOWN

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313	313	APU

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
	Workstand	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 841-004-A

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN ( AMM MPP 49-00-00/200) TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.**

(1) On the circuit breaker panel, open these circuit breakers and attach DO-NOT-CLOSE tags to them:

- APU BLEED VALVE (Location tip: ESSENTIAL DC BUS 1 / APU BLEED VALVE).
- APU CONTROL (Location tip: ESSENTIAL DC BUS2 / APU / CONTROL).
- APU FUEL SOV (Location tip: ESSENTIAL DC BUS2 / APU / FUEL SOV).

(2) Put the workstand below the aircraft tail cone.

(3) Close APU cowling access panel 313CL (AMM MPP 06-42-00/100).

J. APU Bleed Valve and Flow-Limiting Venturi - Reactivation Procedure (Figure 401)

*SUBTASK 440-002-A*

- (1) Remove the protective plug.
- (2) Unfasten the protection of the electrical connector.
- (3) Connect the electrical connector to the APU bleed valve.
- (4) Close APU cowling access panel 313CL (AMM MPP 06-42-00/100).
- (5) Remove the workstand below the aircraft tail cone.

K. Follow-on

*SUBTASK 842-004-A*

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN ( [AMM MPP 49-00-00/200](#)) TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.**

- (1) On the circuit breaker panel, close these circuit breakers and attach DO-NOT-CLOSE tags to them:
  - APU BLEED VALVE (Location tip: ESSENTIAL DC BUS 1 / APU BLEED VALVE).
  - APU CONTROL (Location tip: ESSENTIAL DC BUS2 / APU / CONTROL).
  - APU FUEL SOV (Location tip: ESSENTIAL DC BUS2 / APU / FUEL SOV).
- (2) Do the check procedures for the APU on-the-ground starting/shutdown ( [AMM TASK 49-10-00-910-802-A/200](#)) and ( [AMM TASK 49-10-00-910-803-A/200](#)).