



AIRCRAFT
MAINTENANCE MANUAL

APU EMERGENCY SHUTDOWN - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the check of the APU (Airborne Power Unit) emergency-shutdown system.
- 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
49-62-00-700-801-A ♦	APU EMERGENCY SHUTDOWN - OPERA- ALL TIONAL CHECK	



EMB145 - EMB135

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TASK 49-62-00-700-801-A

EFFECTIVITY: ALL

2. APU EMERGENCY SHUTDOWN - OPERATIONAL CHECK

A. General

- (1) This check is divided into two parts as follows:
 - (a) APU emergency shutdown with the APU fuel-shutoff switch.
 - (b) APU emergency shutdown with the fire test switch.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192BR	Wing stub (For EMB-145MR, MP, MK, ER, EP, EU, and EMB-135ER models)
156	156EZ	Landing gear bay (For EMB-145LR, LU, and EMB-135LR models)

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	Does the task	Cockpit
1	Monitors the APU-fuel shutoff valve	Wing stub or Landing gear bay

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the circuit breaker below and attach a DO-NOT-CLOSE tag to it:

- APU FIRE EXTG.

- (2) For EMB-145MR, MP, MK, ER, EP, EU, and EMB-135ER models:
 - (a) Remove access panel 192BR (AMM MPP 06-41-01/100) to get access to the APU fuel-shutoff valve.
- (3) For EMB-145LR, LU, and EMB-135LR MODELS:
WARNING: MAKE SURE THAT THE LANDING GEAR SAFETY PINS ARE INSTALLED TO PREVENT INJURIES TO PERSONS AND DAMAGE TO MATERIAL (AMM TASK 32-00-01-910-801-A/200).
 - (a) Remove access panel 156EZ (AMM MPP 06-41-01/100) to get access to the APU fuel-shutoff valve.
- (4) Energize the aircraft with the GPU (**AMM TASK 20-40-01-860-801-A/200**).

- J. Operationally Check Emergency Shutdown by Using APU Fuel Shutoff Switch and Fire Test Switch ([Figure 501](#)) ([Figure 502](#)) ([Figure 503](#))

SUBTASK 710-002-A

- (1) APU Emergency Shutdown with the APU Fuel Shutoff Switch.
 - (a) Set the APU master switch to ON.
Result:
 1 The CAUTION message APU FUEL LO PRESS comes into view on the EICAS display.
 2 The CAUTION lights blink.
 3 The aural caution alarm (bell) operates.

NOTE: Push one of the caution light switches to cancel the blinking of the lights.
 4 The position indicator, at the APU fuel-shutoff valve, shows open position.
 - (b) Lift the guard and push the APU fuel-shutoff switch to ON.
Result:
 1 The switch striped bars come on and the ADVISORY message "APU FUEL SOV CLSD" comes into view on the EICAS display.
 2 The position indicator, at the APU fuel-shutoff valve, shows closed position.
 - (c) Reset the APU fuel-shutoff switch to OFF.
Result:
 1 The switch striped bars go off and the ADVISORY message "APU FUEL SOV CLSD" goes out of view on the EICAS display.
 2 The position indicator, at the APU fuel-shutoff valve, shows open position.
 - (d) Set the APU master switch to the OFF position.
Result:
 1 The ADVISORY message "APU FUEL SOV CLSD" blinks for 10 seconds and then goes out of view on the EICAS display.

- (2) APU Emergency Shutdown with the Fire Test Switch.
- (a) Set the APU master switch to ON.
Result:
1 The CAUTION message APU FUEL LO PRESS comes into view on the EICAS display.
2 The CAUTION lights blink.
3 The aural caution alarm (bell) operates.
NOTE: Push one of the caution light switches to cancel the blinking of the lights.
4 The position indicator, at the APU shutoff valve, shows open position.
- (b) Push the fire test switch for more than 10 seconds:
Result:
1 On the EICAS, the messages below are shown:
 - ENG 1-2 FIRE (WARNING)
 - APU FIRE (WARNING)
 - E1-2 FIRE DET FAIL (CAUTION)
 - APU FIRE DET FAIL (CAUTION)
 - APU FUEL SOV CLSD (ADVISORY)2 The fire handles come on.
3 The warning/caution lights flash.
4 The aural warning alarm (bell) operates.
NOTE: Push one of the caution/warning lights to cancel the blinking of the lights.
5 The position indicator, at the APU fuel-shutoff valve, shows CLOSED position.
- (c) Release the fire test switch.
Result:
1 Of the indications above, only the ADVISORY message APU FUEL SOV CLSD stays on the EICAS. All the others come back to the normal condition.
2 The position indicator, at the APU fuel-shutoff valve, stays in the CLOSED position.
- (3) Set the APU master switch to OFF.

K. Follow-on

SUBTASK 842-002-A

CAUTION: BEFORE YOU REMOVE THE EXTERNAL DC POWER SUPPLY, MAKE SURE THAT THE GPU PUSHBUTTON IS SET TO THE OFF (RELEASED) POSITION.

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



EMB145 – EMB135

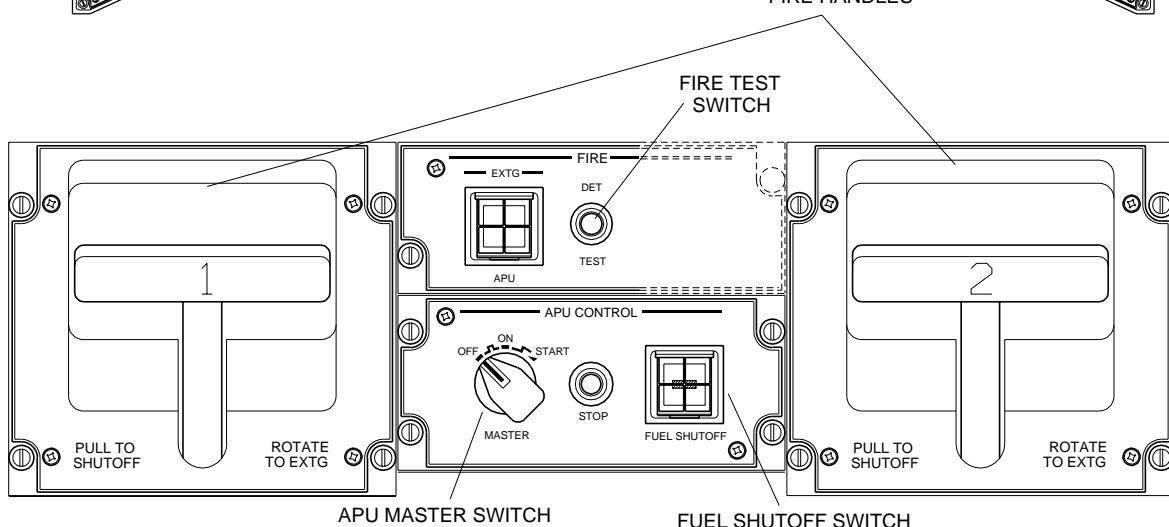
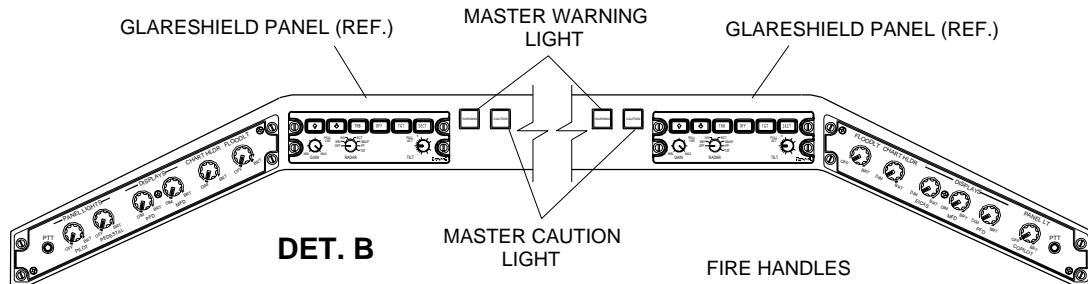
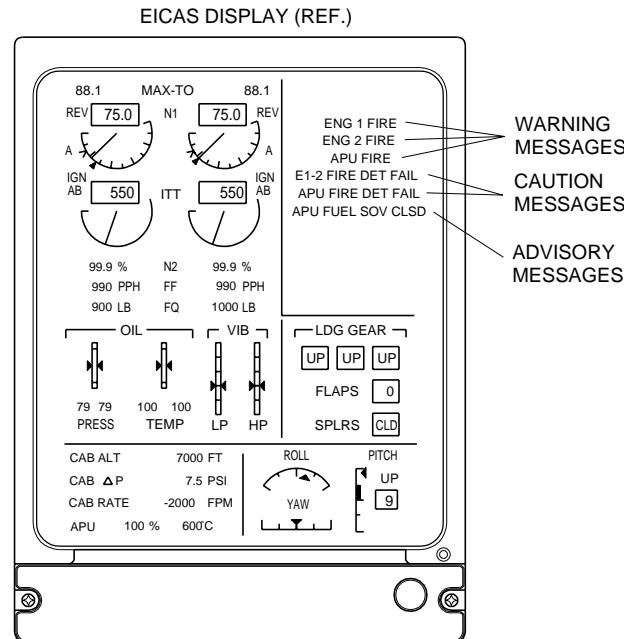
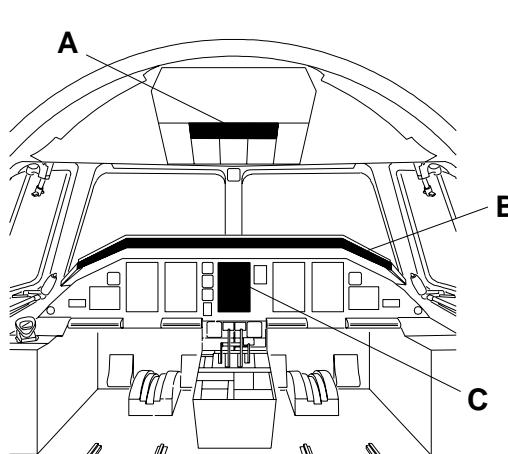
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- (2) For EMB-145MR, MP, MK, ER, EP, EU, and EMB-135ER models:
 - (a) Install access panel 192BR (AMM MPP 06-41-01/100).
- (3) For EMB-145LR, LU, and EMB-135LR models:

WARNING: MAKE SURE THAT THE LANDING GEAR SAFETY PINS ARE INSTALLED TO PREVENT INJURIES TO PERSONS AND DAMAGE TO MATERIAL (AMM TASK 32-00-01-910-801-A/200).

 - (a) Install access panel 156EZ (AMM MPP 06-41-01/100).
- (4) On the circuit breaker panel, close the circuit breaker below and remove the DO-NOT-CLOSE tag from it:
 - APU FIRE EXTG.

EFFECTIVITY: ALL

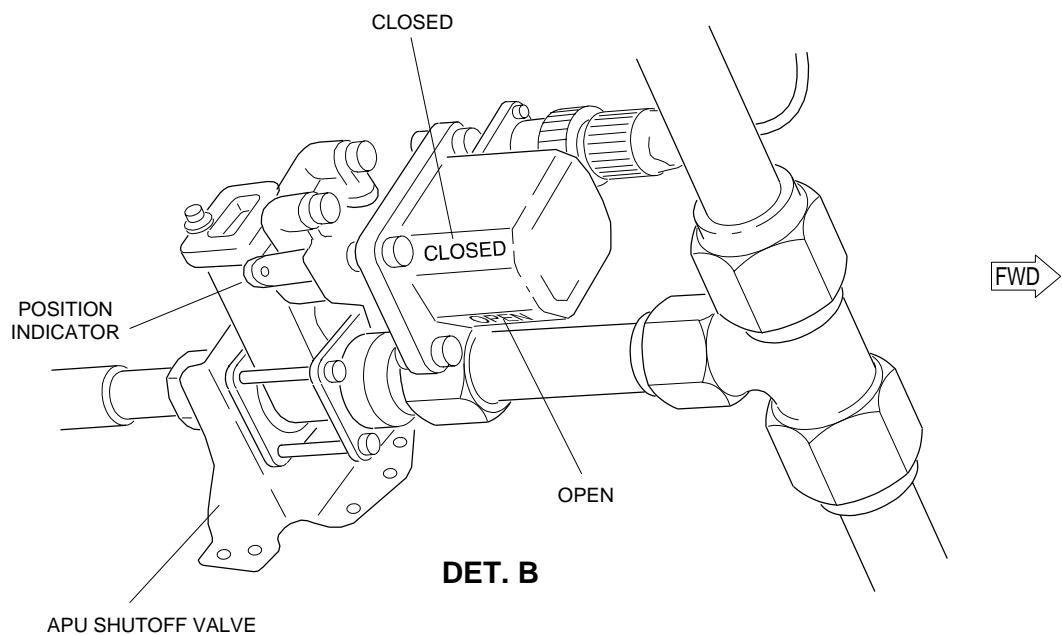
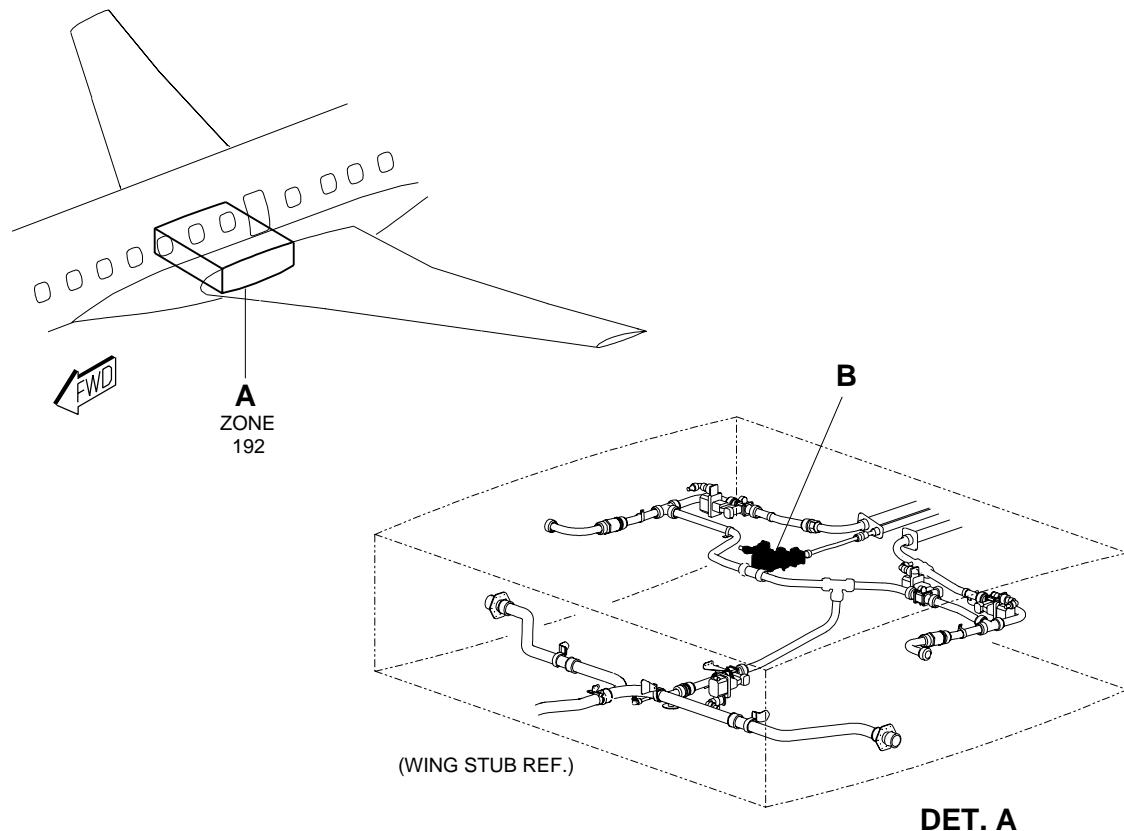
 APU Emergency Shutdown - Control/Indication
 Figure 501


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EFFECTIVITY: EMB-145MR/MP/ER/EP/EU AND EMB-135ER/KE MODELS

APU Fuel-Shutoff Valve - Location

Figure 502

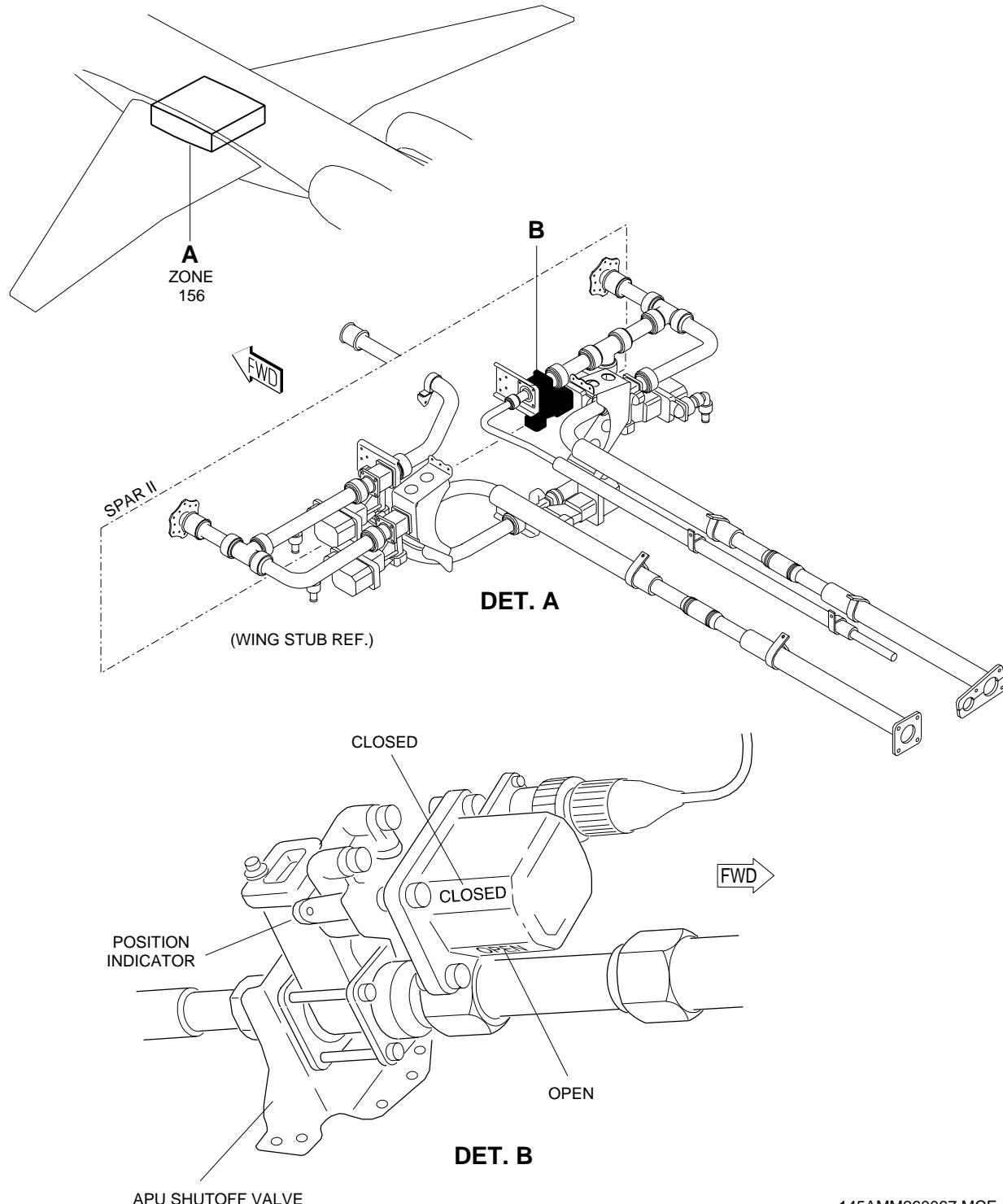


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EFFECTIVITY: EMB-145LR/LU AND EMB-135LR/KL MODELS

APU Emergency Shutdown Check - Control/Indication Locations

Figure 503



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