



AIRCRAFT MAINTENANCE MANUAL

ENGINE SHUT-OFF VALVE - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the operational check of the engine 1/2 shut-off valves.
- 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
28-21-05-700-801-A	ENGINE 1/2 SHUT-OFF VALVES - OPERATIONAL CHECK	ACFT WITH WET WINGSTUB
28-21-05-700-802-A	ENGINE 1/2 SHUT-OFF VALVES - OPERATIONAL CHECK	ACFT WITH DRY WINGSTUB



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 28-21-05-700-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

2. ENGINE 1/2 SHUT-OFF VALVES - OPERATIONAL CHECK

A. General

- (1) This task is a check of the engine 1/2 shut-off valves for operation.
- (2) These valves permit the supply/cut-out of fuel to engine 1 and engine 2.

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

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155DZ/155EZ	Landing gear bay
156	156DZ/156EZ	Landing gear bay

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	Closes the circuit breakers, pulls/pushes the fire extinguishing handles, and monitors the warning message on the EICAS display	Cockpit
1	Monitors the operation of the engine 1/2 shut-off valves	Landing gear bay

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
 - FIRE EXTG BTL A 1/2.

- FIRE EXTG BTL B 1/2.
- (2) Remove access panels 155DZ/155EZ/156DZ/156EZ (AMM MPP 06-41-01/100) to get access to the engine 1/2 shut-off valves.
- (3) Energize the aircraft with an External DC-Power Supply ([AMM TASK 20-40-01-860-801-A/200](#)).
- J. Operational Check of the Engine 1/2 Shut-off Valves ([Figure 501](#))
- SUBTASK 710-002-A**
- (1) Do the check below:
- (a) Pull the Engine 1/2 Fire Extinguishing Handles on the overhead panel.
Result:
1 On the EICAS display, the “E1 FUEL SOV CLSD” and “E2 FUEL SOV CLSD” advisory messages come into view.
2 Make sure that the position indicator, at the engine 1/2 shut-off valves, shows the CLOSED position.
- (b) Push the Engine 1/2 Fire Extinguishing Handles on the overhead panel.
Result:
1 On the EICAS display, the “E1 FUEL SOV CLSD” and “E2 FUEL SOV CLSD” advisory messages go out of view.
2 Make sure that the position indicator, at the engine 1/2 shut-off valves, shows the OPEN position.

K. Follow-on

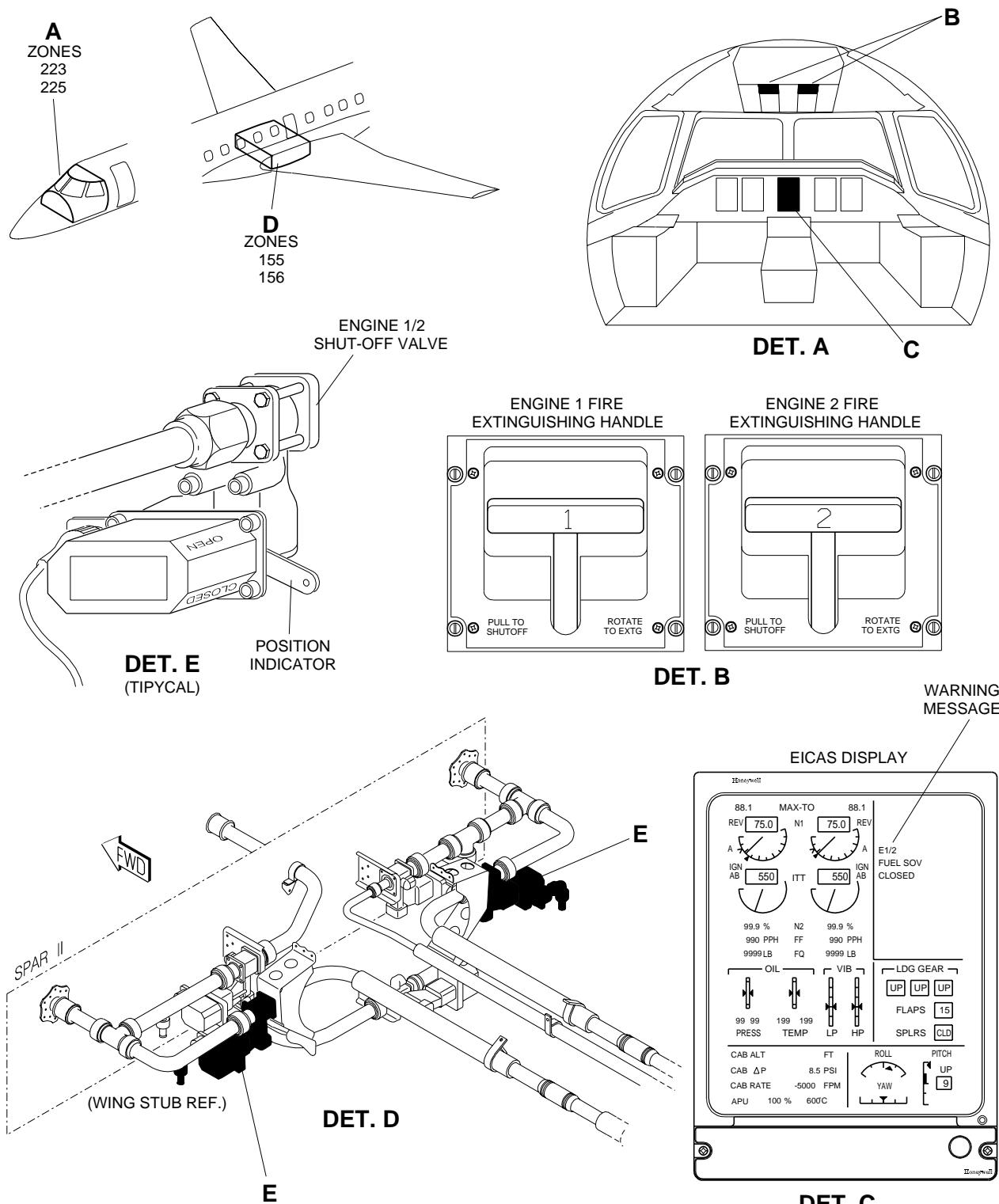
SUBTASK 842-002-A

- (1) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Install access panels 155DZ/155EZ/156DZ/156EZ (AMM MPP 06-41-01/100).
- (3) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
- FIRE EXTG BTL A 1/2.
 - FIRE EXTG BTL B 1/2.

EFFECTIVITY: ACFT WITH WET WINGSTUB

Engine 1/2 Shut-off Valves - Controls/Indication - Component Locations

Figure 501



TASK 28-21-05-700-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

3. ENGINE 1/2 SHUT-OFF VALVES - OPERATIONAL CHECK

A. General

- (1) This task is a check of the engine 1/2 shut-off valves for operation.
- (2) These valves permit the supply/cut-out of fuel to engine 1 and engine 2.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-41-01/100	-
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

C. Zones and Accesses

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
223	223BZ	Main instrument panel
225	225ETC	Overhead panel
192	192AL/192BR	Wing stub

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Closes the circuit breakers, pulls/pushes the fire extinguishing handles, and monitors the warning message on the EICAS display	Cockpit
1	Monitors the operation of the engine 1/2 shut-off valves	Wing stub

I. Preparation

SUBTASK 841-003-A

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

- FIRE EXTG BTL A 1/2.
- FIRE EXTG BTL B 1/2.

- (2) Remove access panels 192AL/192BR (AMM MPP 06-41-01/100) to get access to the engine 1/2 shut-off valves.
- (3) Energize the aircraft with an External DC-Power Supply ([AMM TASK 20-40-01-860-801-A/200](#)).

J. Operational Check of the Engine 1/2 Shut-off Valves ([Figure 502](#))

SUBTASK 710-003-A

- (1) Do the check below:
 - (a) Pull the Engine 1/2 Fire Extinguishing Handles on the overhead panel.
Result:
 - 1 On the EICAS display, the “E1 FUEL SOV CLSD” and “E2 FUEL SOV CLSD” advisory messages come into view.
 - 2 Make sure that the position indicator, at the engine 1/2 shut-off valves, shows the CLOSED position.
 - (b) Push the Engine 1/2 Fire Extinguishing Handles on the overhead panel.
Result:
 - 1 On the EICAS display, the “E1 FUEL SOV CLSD” and “E2 FUEL SOV CLSD” advisory messages go out of view.
 - 2 Make sure that the position indicator, at the engine 1/2 shut-off valves, shows the OPEN position.

K. Follow-on

SUBTASK 842-003-A

- (1) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Install access panels 192AL/192BR (AMM MPP 06-41-01/100).
- (3) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
 - FIRE EXTG BTL A 1/2.
 - FIRE EXTG BTL B 1/2.

EFFECTIVITY: ACFT WITH DRY WINGSTUB

Engine 1/2 Shut-off Valves - Controls/Indication - Component Locations

Figure 502

