

## STARTER CONTROL VALVE - ADJUSTMENT/TEST

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to do the operational test of the SCV messages and the functional test of the SCV.
- 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
80-10-02-700-801-A	STARTER CONTROL VALVE MESSAGES - OPERATIONAL TEST	ALL
80-10-02-700-802-A	STARTER CONTROL VALVE - FUNCTIONAL TEST	ALL

TASK 80-10-02-700-801-A

EFFECTIVITY: ALL

## 2. STARTER CONTROL VALVE MESSAGES - OPERATIONAL TEST

### A. General

- (1) The function of this test is to make sure that the SCV indication system operates correctly.
- (2) These procedures are applicable to the SCVs installed on the left and right engines.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 20-40-03-860-801-A/200	CONNECT THE PNEUMATIC START UNIT TO THE AIRCRAFT

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	413AB	LH Engine
423	423AB	RH Engine
223	223LZ	Cockpit

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the SCV	1

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Cockpit/Engine

I. Preparation

*SUBTASK 841-002-A*

**WARNING:** BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN **AMM MPP 71-00-00/200** TO PREVENT INJURY TO PERSONS AND DAMAGE TO THE MATERIAL.

- (1) Put the ladder in the work area.
- (2) Open access door 413AB/423AB ( [AMM MPP 06-43-00/100](#)) to get access to the SCV.
- (3) Energize the aircraft with the DC power supply ( [AMM TASK 20-40-01-860-801-A/200](#)).
- (4) Open access door 223LZ (AMM MPP 06-42-00/100) to get access to the maintenance panel.
- (5) Lift the guard and set the EICAS switch to the OVRD position.
- (6) Connect the external pneumatic start unit to the aircraft ([AMM TASK 20-40-03-860-801-A/200](#)).
- (7) To do the check of the SCV installed on the left engine, set the XBLEED switch to the OPEN position.

J. Operational Check of the SCV Messages ([Figure 501](#)) ([Figure 502](#))

*SUBTASK 710-002-A*

**NOTE:** Use the rear (ramp) interphone system for communications between persons on the ramp and in the cockpit.

**CAUTION:** MANUAL OPERATION OF THE SCV WITHOUT AIR PRESSURE IN THE INLET DUCT CAN CAUSE DAMAGE TO THE VALVE.

- (1) Turn the SCV manual override control to the open position and hold it.
- (2) Stop for 10 seconds and make sure that the message (caution) E1 ATS SOV OPN (For LH Engine) or E2 ATS SOV OPN (For RH Engine) comes into view on the EICAS display.
- (3) Release the SCV manual override control (closed position) and make sure that the message goes out of view on the EICAS display.

K. Follow-on

*SUBTASK 842-002-A*

- (1) Close access door 413AB/423AB ( [AMM MPP 06-43-00/100](#)).
- (2) Remove the ladder.
- (3) Set the EICAS switch to the NORM position.
- (4) Close access panel door 223LZ (AMM MPP 06-42-00/100).
- (5) Remove the external pneumatic start unit from the aircraft ([AMM TASK 20-40-03-860-801-A/200](#)).

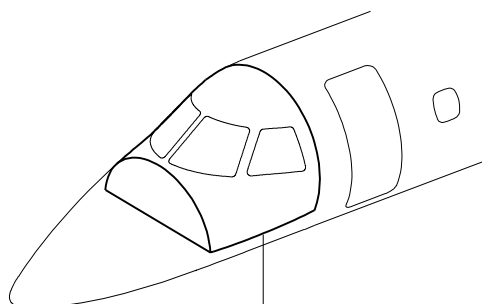


- (6) Set the XBLEED switch to the AUTO position, if applicable.
- (7) Remove the DC power supply ( [AMM TASK 20-40-01-860-801-A/200](#)).

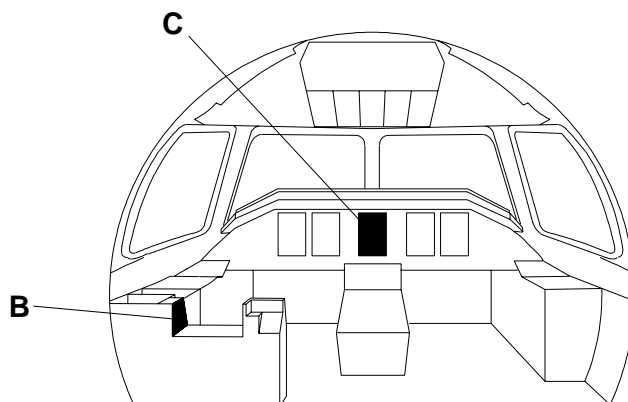
EFFECTIVITY: ALL

Starter Control Valve Messages Operational Check - Component Locations

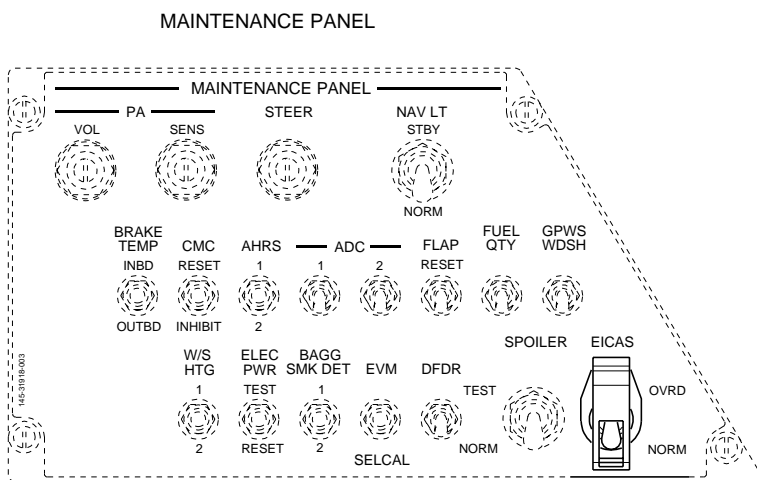
Figure 501



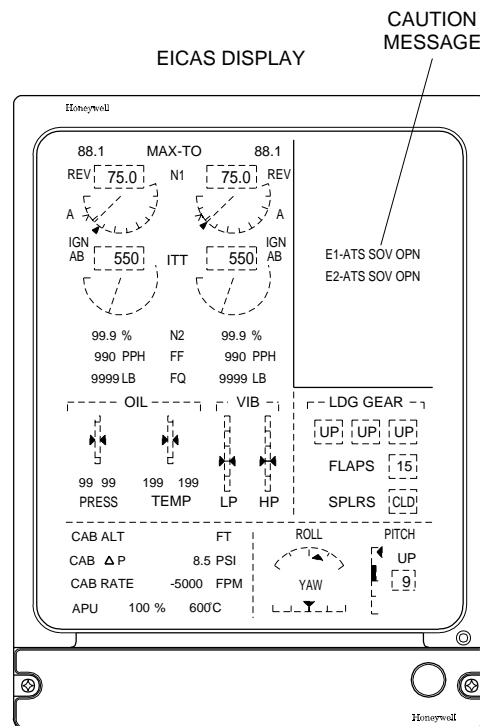
**A**  
ZONE  
223



**DET. A**



**DET. B**



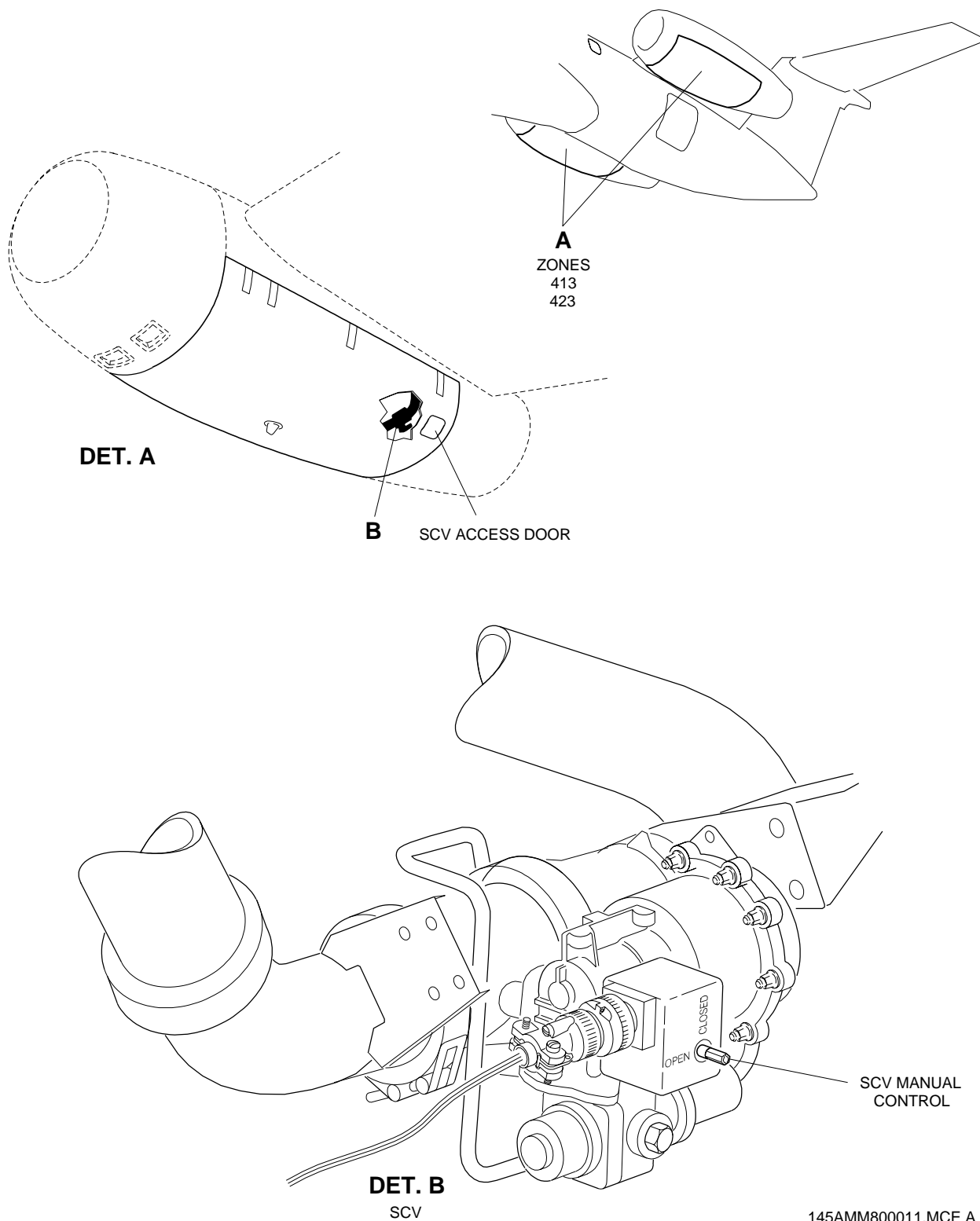
**DET. C**

145AMM800010.MCE A

**EFFECTIVITY: ALL**

**Starter Control Valve - Component Locations**

**Figure 502**



145AMM800011.MCE A

TASK 80-10-02-700-802-A

EFFECTIVITY: ALL

### 3. STARTER CONTROL VALVE - FUNCTIONAL TEST

#### A. General

(1) These procedures are applicable to the SCVs installed on the left and right engines.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 20-40-03-860-801-A/200	CONNECT THE PNEUMATIC START UNIT TO THE AIRCRAFT
AMM TASK 71-00-01-910-803-A/200	ENGINE DRY MOTORING PROCEDURE (START CYCLE WITHOUT FUEL/IGNITION)

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	413AB	LH Engine
423	423AB	RH Engine

#### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 044	Ramp-Headset	Communication between persons at the ramp and in the cockpit	

#### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the SCV	1

#### F. Consumable Materials

Not Applicable

#### G. Expandable Parts

Not Applicable

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does dry-motoring and operates stopwatch	Cockpit

(Continued)

QTY	FUNCTION	PLACE
1	Monitors valve position indicator and tells if it moves	Engine

I. Preparation

*SUBTASK 841-003-A*

**WARNING:** BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN [AMM MPP 71-00-00/200](#) TO PREVENT INJURY TO PERSONS AND DAMAGE TO THE MATERIAL.

- (1) Put the ladder in the work area.
- (2) Open access door 413AB/423AB ( [AMM MPP 06-43-00/100](#)) to get access to the SCV.
- (3) Energize the aircraft with the DC power supply ( [AMM TASK 20-40-01-860-801-A/200](#)).
- (4) Connect the external pneumatic start unit to the aircraft ( [AMM TASK 20-40-03-860-801-A/200](#)).
- (5) To do the check of the SCV installed on the left engine, set the XBLEED switch to the OPEN position.

J. Functional Check of the SCV (Figure 502)

*SUBTASK 710-003-A*

**NOTE:** Use the rear (ramp) interphone system for communications between persons at the ramp and in the cockpit.

- (1) Do the engine dry motoring procedure ( [AMM TASK 71-00-01-910-803-A/200](#)) and at the same time start the stopwatch.
- (2) Monitor the SCV manual control position indicator. Make sure that it moves from CLOSED to OPEN position (or starts to move and stops) in no more than 8 seconds after the dry motoring start.

**NOTE:** The person at the ramp must tell the one in the cockpit when the position indicator stops.

K. Follow-on

*SUBTASK 842-003-A*

- (1) Close access door 413AB/423AB ( [AMM MPP 06-43-00/100](#)).
- (2) Remove the ladder.
- (3) Remove the external pneumatic start unit from the aircraft ( [AMM TASK 20-40-03-860-801-A/200](#)).
- (4) Set the XBLEED switch to the AUTO position, if applicable.
- (5) Remove the DC power supply ( [AMM TASK 20-40-01-860-801-A/200](#)).