

AIR BAG RESTRAINT SYSTEM

1989 Volvo 740

DIAGNOSIS & TESTING

* PLEASE READ THIS FIRST *

WARNING: Failure to follow SERVICE PRECAUTIONS may result in air bag deployment and personal injury. See SERVICE PRECAUTIONS. After component replacement, ensure proper system operation. Perform SYSTEM OPERATION CHECK.

WARNING: NEVER use ohmmeter or other self-powered meter to test resistance of air bag inflator/module. Use Special Test Resistor (998-8695) in place of air bag module when testing resistance of any SRS circuit.

RETRIEVING & CLEARING FAULT CODES

NOTE: If SRS warning light does not function properly, go to SRS WARNING LIGHT PROBLEMS.

Retrieving Codes

1) Turn ignition switch to ON position. SRS warning light on instrument panel light bar will remain lit longer than 10 seconds, indicating SRS fault is present. Wait at least 20 seconds to allow SRS to complete its own system self-diagnostics. Locate proper test terminal for vehicle model series. See SRS TEST TERMINAL LOCATION table. See Fig. 11

2) Using jumper wire with spade connectors at both ends, connect jumper wire to proper test terminal and touch a ground (such as cigarette lighter housing) for 2-5 seconds, and then remove wire.

3) SRS light will flash ONCE immediately upon removing wire from ground. DO NOT mistake this single flash for a code. SRS light will then begin flashing codes in crash sensor memory. Crash sensor will display all fault codes in its memory only once. See SRS FAULT CODES table. After recording codes, turn ignition off.

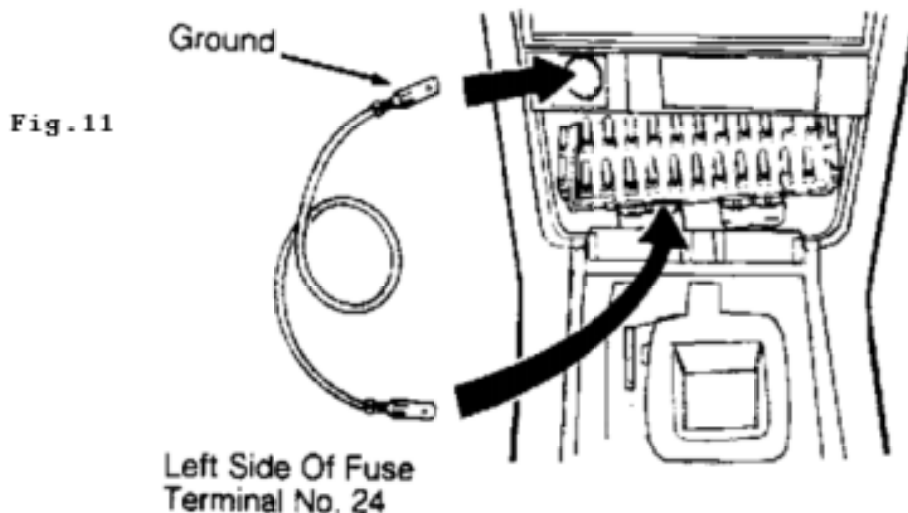
Clearing Codes

1) After all repairs have been made and SRS light has been rechecked (see SYSTEM OPERATION CHECK), turn ignition switch to ON position. Locate proper test terminal for vehicle model series. See SRS TEST TERMINAL LOCATION table. See Figs. 10, 11, 12 and 13.

2) Using jumper wire with spade connectors at both ends, connect jumper wire to proper test terminal and touch a ground (such as cigarette lighter housing) for 2-5 seconds.

3) Momentarily remove wire from ground. SRS light will flash once. Quickly reground jumper wire 3 times within 5 seconds.

4) If codes have been properly cleared, SRS light should then go off for 4 seconds, relight for 3 seconds and then go out. SRS codes are now cleared. Perform SYSTEM OPERATION CHECK.



SRS TEST TERMINAL LOCATION TABLE

SERIES	TERMINAL LOCATION	FUSE PANEL LOCATION
740 (All) &	Left Side Terminal	Center Front Console,
760 (1987)	Of Fuse No. 24	Below Ash Tray

SRS FAULT CODES TABLE

CODE/FLASHES	FAULT	CORRECTIVE ACTION
1	Fault in crash sensor.	* Check all electrical connections and/or replace crash sensor.
2	Fault in standby power unit or connection	* Check all electrical connections between unit and crash sensor. * Replace standby power unit. * Replace crash sensor.
3 (1)	Test terminal or SRS warning light shorted to battery or to ground	* Check for short circuit to battery or ground at test terminal connector. * Check wiring harness and connectors.
4	Air bag assembly resistance low.	* Check wiring, contact reel and connectors for short circuits. * Measure resistance of contact reel. * Replace air bag module.
5	Air bag assembly resistance high.	* Check gas generator connector. * Check wiring and contact reel for open circuit. * Replace air bag module.
6	Not Used	* Not Used
7	Not Used	* Not Used
8	Air bag or wiring shorted to battery	* Check wiring and connectors for shorts. * Check wiring and contact reel. * Measure circuit resistance. * Replace crash sensor.
9	Air bag assembly shorted to ground.	* Check for grounded gas generator wiring. * Check wiring and contact reel. * Measure circuit resistance. * Replace air bag module.
10	Mercury switch in crash sensor shorted than one minute.	* Ensure crash sensor is correctly installed. or closed for more * Replace crash sensor.
11 (2)	BOTH seat belt tensioners disconnected (No code will be set if only one seat belt is disconnected)	* Ensure both tensioners are connected. * Check common wiring harness. * Replace crash sensor.
(1) - SRS warning light will always be on or will not activate.		
(2) - 780 Series only.		