

VOLVO

Volvo Cars of North America, Inc.

Rockleigh, New Jersey

The following DCS Gram was sent to all dealers on 8/10/94.

DISTRIBUTE TO SERVICE / PARTS MANAGERS AND VOLVO TECHNICIANS

TTTTTTT EEEEE CCCCC H H DDDD CCCCC SSSSS
T E C H H D D C S
T EEEE C HHHHHH ===== D D C SSSSS
T E C H H D D C S
T EEEEE CCCCC H H DDDD CCCCC SSSSS

VOLVO CARS OF NORTH AMERICA, ROCKLEIGH, NJ. DATE: 08-10-94

MODEL : 240, 700, 900 - LH2.2, LH2.4 M1.8 NO: 23-02
SUBJECT: MASS AIR FLOW (MAF) SENSOR RELATED DRIVEABILITY
COMPLAINTS - DTCs 1-2-1, 2-2-1, 2-3-1 & 2-3-2

REFERENCE:

Existing MAF fault tracing in Service Manuals, SB No. 23-120.
Fault tracing described below is a SUPPLEMENT to existing
procedures.

SYMPTOMS:

Hesitation, poor (jerky) response, poor fuel economy, usually
accompanied by one or more of the following Diagnostic Trouble
Codes (DTC's): 2-2-1, 2-3-1, 2-3-2 (these DTCs are fuel trim
codes for the H02S).

*** NOTES:

1. MAF sensor DTC 1-2-1 is stored only if signal is missing or
outside limits for more than several seconds, engine goes into
limp-home. Can be stored on 240 vehicles if coil wire is
laying against MAF sensor housing.
2. Engine start is not affected by MAF sensor failure. Do not
replace MAF sensor for no-start problem.
3. Verify that warm air mechanism in air filter housing is
functioning correctly.

If a problem with the MAF sensor is suspected, perform in-car
.....

Index : 039315

-----Volvo Drive

Rockleigh, NJ 07647-0913

Telephone
201-768-7300

voltage test as follows:

Conditions:

- Ambient temp. of approximately 68 degrees F
- No exhaust hose on tailpipe
- Need DVOM with ability to read to 0.01 volt
- Car should not have run for at least 45 minutes.

IMPORTANT: Voltage measurement must be made within two minutes of ignition switch-on.

1. Check connections, if necessary clean with spray, P/N 1161435-1 and apply grease, P/N 1161417-9.
2. Switch on ignition, measure voltage across pins 2 and 3 at the back of the MAF sensor connector. Measured value should be according to chart below:

LH2.2:	1.24	-	1.32 V
LH2.4:	1.34	-	1.42 V
M 1.8:	1.37	-	1.45 V

3. If measured values are outside limits, replace MAF sensor. Please note values on Warranty Claims.

NOTE: Ensure that hood insulation is not in contact with MAF sensor or connector.

Drive Safely,

900 Quality Center
Volvo Cars of North America