Tech-Note

The following bulletin pertains to Electronic Throttle Module (ETM) software updates. ETM problems can be a source of unmetered (or improperly metered) air entry which is a major cause of recurring, false catalytic converter codes. Furthermore, depending upon how the lean condition manifests itself, another danger is unequal fuel distribution which will cause an overall rich condition. This will certainly lead to converter failure.

NO: 25-65.00C

DATE: 03-16-2006

MODEL/YEAR:
C70 1999-2002
S70 1999-2000
S60 (2001 all engine variants), (2002 non-turbo only).
V70 (1999-2001 all engine variants), (2002 non-turbo only).
V70XC, 1999-2000
XC70 2001
S80 1999-2001
SUBJECT:
Electronic Throttle System Software - Upgrade.
REFERENCE:
TNN 149A

DESCRIPTION:

Beginning March 17th 2006 there will be an Electronic Throttle System (ETS) software upgrade available for the vehicles listed above. The software contains changes that will reduce driver disturbances by allowing the system to better differentiate between glitches or minor disturbances, and system faults. The upgraded software will also reduce driver disturbances due to idle oscillations caused by dirt build-up in the throttle. TNN 25-149A will be updated to guide service technicians on the changes. The fault tracing for each DTC in the TNN will give guidance on where it is appropriate to use the software as a solution for DTC's triggered in the vehicles current software. As the ETS software resides in both the Electronic Throttle Module (ETM) and the Engine Control Module (ECM), both will receive new software with the upgrade.

When to download the Electronic throttle system upgrade:

^ The Electronic throttle system software upgrade should be installed into a customer's vehicle at the first service opportunity. Where the customer requests or consents to the upgrade.

1. If there are no ETS faults in the vehicle, and the customer requests or consents to their ETS being upgraded with the latest software, proceed to download the software as described in the "Service" section below.

2. Should the vehicle be brought in with an existent ETS fault:

   Fault trace according to INN 25-149A, to best determine if the fault will be resolved by upgrading the software. A repair or service may be needed before upgrading the software.

Please check the TNN date to ensure the latest version is always being used.

Important Note: Current VIDA fault tracing for ETS should not be followed unless indicated as part of a diagnosis for a DTC in TNN 25-149A.

If either ETM or ECM should need to be replaced, as part of fault tracing, both the ETM and the ECM will receive the upgraded software, when the new Module is downloaded. And the upgrade would not need to be made subsequently.

SERVICE:

Vehicle type and model year	Software Product number
S80 1999-2001 S60 , V70 & XC70 2001 turbo engines, S60, V70 2001-2002 non-turbo engines.	30785453
C70 1999-2002	30785452
S70, V70, V70 XC 1999-2000	30785451

Upgrade the ETS using the appropriate software part number in the table shown, for the vehicle being serviced.

Software part numbers with Electronic throttle system upgrade							
5 & 6 Cylinder Turbocharged engines Plus 6 Cylinder non turbo						5 cylinder non turbo	
ECM	ETM	ECM	ETM	ECM	ETM	ECM	ETM
30785203AC	30785180A	30785216AB	30785180A	30785229AB	30785180A	30785118AA	30785179A
30785204AC	30785180A	30785217AB	30785180A	30785230AB	30785180A	30785119AA	30785179A
30785205AC	30785180A	30785218AB	30785180A	30785231AB	30785180A	30785120AA	30785179A
30785206AC	30785180A	30785219AB	30785180A	30785232AB	30785180A	30785121AA	30785179A
30785207AC	30785180A	30785220AB	30785180A	30785233AB	30785180A	30785122AA	30785179A
30785208AC	30785180A	30785221AB	30785180A	30785234AB	30785180A	30785123AA	30785179A
30785209AC	30785180A	30785222AB	30785180A	30785235AC	30785180A	30785124AA	30785178A
30785210AC	30785180A	30785223AB	30785180A	30785236AC	30785180A	30785125AA	30785178A
30785211AC	30785180A	30785224AB	30785180A	30785237AC	30785180A	30785126AA	30785178A
30785212AB	30785180A	30785225AB	30785180A	30785238AB	30785180A	30785127AA	30785178A
30785213AB	30785180A	30785226AB	30785180A	30785239AB	30785180A	30785128AA	30785178A
30785214AB	30785180A	30785227AB	30785180A	30785240AB	30785180A		
30785215AB	30785180A	30785228AB	30785180A				

If necessary the upgraded ETS software can be confirmed in a vehicle, by reading the software part numbers shown from the ECM and ETM using VIDA.

If you have a 5 cylinder non turbo where the ECM software is in the series 30785 (118xx - 128xx) and ETM software part # is 3078517 (8A-9A), the latest ETS software is in the vehicle.

For any other engine if the ECM software is in the series 30785 (203xx - 240xx) and the ETM software is 30785180A the latest ETS software is in the vehicle.

SW part #'s other than in the table above indicate that the upgrade has not been applied to the vehicle.

WARRANTY CLAIM INFORMATION		
LABOR OP	LABOR DESCRIPTION	LABOR TIME
36004-2	SOFTWARE DOWNLOAD	0.3hr

Warranty Information