P0601 / P0602 / P0607: Internal Control Module Memory Check Sum Error / Control Module

System Description

Internal control module is installed in ECM.

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
DTC P0601: Data write error or check sum error (1 driving cycle detection logic) DTC P0602: Data programming error (1 driving cycle detection logic but MIL does not light up) DTC P0607: Data programming error (1 driving cycle detection logic)	ECM

DTC Confirmation Procedure

1) Connect scan tool to DLC with ignition switch turned OFF.
2) Turn ON ignition switch and clear DTC, pending DTC and freeze frame data by using scan tool.
3) Start engine and run it at idle if possible.
4) Check DTC and pending DTC by using scan tool.

DTC Troubleshooting

Step	Action	Yes	No
1	DTC recheck 1) Clear DTC referring to "DTC Clearance". 2) Turn OFF ignition switch. 3) Turn ON ignition switch and check DTC. Is DTC P0601 or P0607 still indicated?	Go to Step 2.	Intermittent trouble. Check for intermittent referring to "Intermittent and Poor Connection Inspection in Section 00".
2	ECM reprogramming check Was reprogramming of ECM executed?	Execute reprogramming of ECM correctly once again.	Go to step 3.
3	ECM power and ground circuit check 1) Check that ECM power supply circuit and ECM ground circuit is in good condition referring to "ECM Power and Ground Circuit Check". Are check results OK?	Substitute a known-good ECM and recheck.	Repair ECM power or ground circuit.