

DTC	P0604/89^{*1}	Internal Control Module Random Access Memory (RAM) Error
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DTC	P0606/89^{*2}	Engine Control ECU/PCM Processor
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DTC	P0607/89^{*3}	Control Module Performance
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DTC	P0657/89^{*1}	Actuator Supply Voltage Circuit / Open
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*1: ETCS trouble code No. is 33

*2: ETCS trouble code No. is 33 or 36

*3: ETCS trouble code No. is 34 or 35

CIRCUIT DESCRIPTION

The engine control ECU continuously monitors its internal memory status, internal circuits, and output signals to the throttle actuator. This self-check insures that the engine control ECU is functioning properly. If any malfunction is detected, the engine control ECU will set the appropriate DTC and illuminate the MIL. The engine control ECU memory status is diagnosed by internal "mirroring" of the main CPU and the sub CPU to detect RAM (Random Access Memory) errors. The two CPUs also perform continuous mutual monitoring.

The engine control ECU sets a DTC if: 1) outputs from the 2 CPUs are different and deviate from the standards, 2) the signals to the throttle actuator deviate from the standards, 3) a malfunction is found in the throttle actuator supply voltage, and 4) any other engine control ECU malfunction is found.

DTC No.	DTC Detecting Condition	Trouble Area
P0604/89 P0606/89 P0607/89 P0657/89	Engine control ECU malfunction	• Engine control ECU

INSPECTION PROCEDURE

Replace engine control ECU (See Pub. No. RM630E, page FI-74).