

DTC	TOOL	FAULT DESCRIPTION	MONITORING CONDITIONS	CK ENG	OTHER	DEFAULT ACTION	CM PIN	POSSIBLE CAUSES
P1637	OBD II	CAN ABS/TCCM token message missing	Ignition ON > 5 seconds	2	1 [M]	When fault is detected, ECM: – Inhibits cruise control – (Idle speed control quality deteriorates)	EM83 -15 -16 -24 -25	CAN open circuit fault – ABS/TCCM to ECM CAN short circuit fault ABS/TCCM failure ECM failure
P1638	OBD II	CAN INST token message missing	Ignition ON > 5 seconds	1	N	None (Engine speed and coolant temperature data missing at instrument pack)	EM83 -15 -16 -24 -25	CAN open circuit fault – INST to ECM CAN short circuit fault INST failure ECM failure
P1642	OBD II	CAN circuit malfunction	Ignition ON > 5 seconds	1	1 [M]	When fault is detected, ECM: – Limits throttle to approximately 30% – Inhibits cruise control (All CAN data unavailable)	EM83 -15 -16 -24 -25	CAN short circuit fault Control module failure – check for additional flagged DTC(s) to locate control module source
P1643	OBD II	CAN TCM token message missing	Ignition ON > 5 seconds	2	1 [M]	When fault is detected, ECM: – Limits throttle to approximately 30% – Inhibits cruise control (Torque reduction request data missing; results in harsh transmission shifts)	EM83 -15 -16 -24 -25	CAN open circuit fault – TCM to ECM CAN short circuit fault TCM failure ECM failure
P1646	OBD II	Fuel pump 2 (SC) relay malfunction	Ignition ON > 5 seconds	2	1 [A, M]	When fault is detected, ECM: – Limits engine speed to 3000 rpm	EM82 -03	Fuel pump relay 2 failure Fuel pump relay 2 to ECM circuit fault Fuel pump relay 2 coil power supply open circuit ECM ground circuit fault (relay coil drive)