

Service Codes

SPN No.	SPN Name	FMI No.	Code Description	Level 1 Text	Tech Manual Description	Warning Light	Vehicle Response to Code	Vehicle Recovery
637	Engine Timing Sensor	7	The relationship between the two engine position signals is not correct.	ERR 209	Engine Timing and Position Signals Out of Sync	Service Alert	Function Degraded	Follow troubleshooting procedures
637	Engine Timing Sensor	8	The signal from the engine position sensor on the crank shaft missing.	ERR 209	Engine Timing Sensor Signal Missing	Service Alert	Function Degraded	Follow troubleshooting procedures
637	Engine Timing Sensor	10	The signal from the engine position sensor on the crank shaft does not have the proper pulse pattern.	ERR 209	Crank Timing Signal Rate of Change Abnormal	Service Alert	Function Degraded	Follow troubleshooting procedures
629	Controller #1	12	ECU not programmed or programmed incorrectly.	ERR 210	ECU Programming Error	Stop	Engine Shuts Down	Reprogram
651	Engine Injector Cylinder #01	5	The current to the injector in cylinder #1 is less than expected.	ERR 211	Injector # 1 Circuit Has High Resistance	Service Alert	Function Degraded	Follow troubleshooting procedures
651	Engine Injector Cylinder #01	6	The current to the injector in cylinder #1 increases too rapidly.	ERR 211	Injector # 1 Has Low Resistance	Service Alert	Function Degraded	Follow troubleshooting procedures
651	Engine Injector Cylinder #01	13	Calibration for injector in cylinder #1 not valid.	ERR 211	Injector # 1 Calibration Fault	Service Alert	Function Degraded	Calibrate
652	Engine Injector Cylinder #02	5	The current to the injector in cylinder #2 is less than expected.	ERR 212	Injector # 2 Circuit Has High Resistance	Service Alert	Function Degraded	Follow troubleshooting procedures
652	Engine Injector Cylinder #02	6	The current to the injector in cylinder #2 increases too rapidly.	ERR 212	Injector # 2 Has Low Resistance	Service Alert	Function Degraded	Follow troubleshooting procedures
652	Engine Injector Cylinder #02	13	Calibration for injector in cylinder #2 not valid.	ERR 212	Injector # 2 Calibration Fault	Service Alert	Function Degraded	Calibrate
653	Engine Injector Cylinder #03	5	The current to the injector in cylinder #3 is less than expected.	ERR 213	Injector # 3 Circuit Has High Resistance	Service Alert	Function Degraded	Follow troubleshooting procedures
653	Engine Injector Cylinder #03	6	The current to the injector in cylinder #3 increases too rapidly.	ERR 213	Injector # 3 Circuit Has Low Resistance	Service Alert	Function Degraded	Follow troubleshooting procedures

Continued on next page

AA95137,0002942 -19-13SEP10-9/10