

Service Codes

Engine Control Unit (ECU):

| SPN No. | SPN Name | FMI No. | Code Description | Level 1 Text | Tech Manual Description | Warning Light | Vehicle Response to Code | Vehicle Recovery |
|---------|--------------------------------------|---------|--|--------------|--|---------------|---------------------------|-------------------------------------|
| 91 | Accelerator Pedal Position 1 | 3 | Primary Throttle shorted to high source | ERR 200 | Throttle #1 Signal Out of Range High | Service Alert | Function Degraded | Follow troubleshooting procedures |
| 91 | Accelerator Pedal Position 1 | 4 | Primary Throttle open or shorted to ground | ERR 200 | Throttle #1 Signal Out of Range Low | Service Alert | Function Degraded | Follow troubleshooting procedures |
| 91 | Accelerator Pedal Position 1 | 7 | Primary Throttle calibration procedure failed | ERR 200 | | Service Alert | Function Degraded | Follow troubleshooting procedures |
| 91 | Accelerator Pedal Position 1 | 13 | Primary Throttle needs calibration | ERR 200 | | Service Alert | Function Degraded | Calibrate |
| 94 | Engine Fuel Delivery Pressure | 3 | Voltage from fuel pressure sensor is higher than normal temperature sensor range. | ERR 201 | Low Pressure Fuel Signal Out of Range High | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 94 | Engine Fuel Delivery Pressure | 4 | Voltage from fuel pressure sensor is lower than normal temperature sensor range. | ERR 201 | Low Pressure Fuel Signal Out of Range Low | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 94 | Engine Fuel Delivery Pressure | 17 | Fuel Pressure at inlet to high pressure pump is too low. | ERR 201 | High Pressure Fuel System-Pressure Signal Slightly Low | Service Alert | Function Degraded | Follow troubleshooting procedures |
| 105 | Engine Intake Manifold 1 Temperature | 0 | Manifold air temperature is above highest threshold spec. | ERR 202 | Intake Manifold Air Temperature Signal Extremely High | Stop | Derate - Max Fuel Limited | Enters Come-Home Mode Automatically |
| 105 | Engine Intake Manifold 1 Temperature | 3 | The voltage from the manifold air temperature sensor is higher than normal sensor range. | ERR 202 | Intake Manifold Air Temperature Signal Out of Range High | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 105 | Engine Intake Manifold 1 Temperature | 4 | The voltage from the manifold air temperature sensor is lower than normal sensor range. | ERR 202 | Intake Manifold Air Temperature Signal Out of Range Low | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 105 | Engine Intake Manifold 1 Temperature | 15 | Manifold air temperature is above spec. | ERR 202 | Intake Manifold Air Temperature Signal Slightly High | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |

Continued on next page

AA95137,0002942 -19-13SEP10-6/10

Service Codes

| SPN No. | SPN Name | FMI No. | Code Description | Level 1 Text | Tech Manual Description | Warning Light | Vehicle Response to Code | Vehicle Recovery |
|---------|--------------------------------------|---------|---|--------------|--|---------------|---------------------------|-------------------------------------|
| 105 | Engine Intake Manifold 1 Temperature | 16 | Manifold air temperature is above spec. | ERR 202 | Intake Manifold Air Temperature Signal Moderately High | Service Alert | Derate - Max Fuel Limited | Enters Come-Home Mode Automatically |
| 110 | Engine Coolant Temperature | 0 | Coolant temperature is above highest threshold. | ERR 203 | Engine Coolant Temperature Signal Extremely High | Stop | Derate - Max Fuel Limited | Enters Come-Home Mode Automatically |
| 110 | Engine Coolant Temperature | 3 | The voltage from the coolant temperature sensor is higher than the normal sensor range. | ERR 203 | Engine Coolant Temperature Signal Out of Range High | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 110 | Engine Coolant Temperature | 4 | The voltage from the coolant temperature sensor is lower than normal sensor range. | ERR 203 | Engine Coolant Temperature Signal Out of Range Low | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 110 | Engine Coolant Temperature | 15 | Coolant temperature is above the lowest threshold. | ERR 203 | Engine Coolant Temperature Signal Slightly High | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 110 | Engine Coolant Temperature | 16 | Coolant temperature is above mid threshold. | ERR 203 | Engine Coolant Temperature Signal Moderately High | Service Alert | Derate - Max Fuel Limited | Enters Come-Home Mode Automatically |
| 158 | Key Switch Battery Potential | 17 | The ECU internal voltage did not turn off after the switched battery signal when low. | ERR 204 | ECU Power Down Error | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 174 | Engine Fuel Temperature | 3 | The voltage from the fuel temperature sensors higher than the normal sensor range. | ERR 205 | | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 174 | Engine Fuel Temperature | 4 | The voltage from the fuel temperature sensor is lower than normal sensor range. | ERR 205 | Fuel Temperature Signal Out of Range Low | Service Alert | Indicator/Alarm Only | Acknowledge Alarm |
| 189 | Engine Rated Speed | 0 | Engine speed limited to low idle due to another fault. | ERR 206 | Engine Speed Derate Condition Exists | Service Alert | Function Degraded | Follow troubleshooting procedures |
| 636 | Engine Position Sensor | 2 | Noise is being detected on the engine position sensor. | ERR 207 | Engine Position Sensor Signal Invalid | Service Alert | Function Degraded | Follow troubleshooting procedures |

Continued on next page

AA95137,0002942 -19-13SEP10-7/10