

Engine Control Unit Diagnostic Trouble Codes

FMI Number	Warning Light	DTC Description
ECU-91.9	Service Alert	CAN Throttle Message Error
ECU-94.3	Service Alert	Low Pressure Fuel Pressure Signal Out of Range High
ECU-94.4	Service Alert	Low Pressure Fuel Signal Out of Range Low
ECU-94.17	Service Alert	Low Presssure Fuel Signal Slightly Low
ECU-97.3	Service Alert	Water-in-Fuel Signal Out of Range High
ECU-97.4	Service Alert	Water-in-Fuel Signal Out of Range Low
ECU-97.16	Service Alert	Water-in-Fuel Detected
ECU-100.1	Stop	Engine Oil Pressure Signal Extremely Low
ECU-100.4	Service Alert	Engine Oil Pressure Signal Out of Range Low
ECU-100.18	Service Alert	Engine Oil Pressure Signal Moderately Low
ECU-100.31	Service Alert	Oil Pressure is not Zero with Engine Stopped
ECU-102.2	Service Alert	Intake Manifold Pressure Signal Invalid
ECU-102.3	Service Alert	Intake Manifold Pressure Signal Out of Range High
ECU-102.4	Service Alert	Intake Manifold Pressure Signal Out of Range Low
ECU-103.0	Service Alert	Turbo Speed Signal Extremely High
ECU-103.5	Service Alert	Turbo Speed Sensor Circuit has High Resistance
ECU-103.8	Service Alert	Turbo Speed Signal Incorrect
ECU-103.31	Service Alert	Turbo Speed Signal Missing
ECU-105.0	Stop	Intake Manifold Air Temperature Signal Extermely High
ECU-105.3	Service Alert	Intake Manifold Air Temperature Signal Out of Range High
ECU-105.4	Service Alert	Intake Manifold Air Temperature Signal Out of Range Low
ECU-105.15	Service Alert	Intake Manifold Air Temperature Signal Slightly High
ECU-105.16	Service Alert	Intake Manifold Air Temperature Signal Moderately High
ECU-107.0	Service Alert	Air Filter Pressure Differential Extremely High
ECU-108.2	Service Alert	Barometric Pressure Signal Invalid
ECU-110.0	Stop	Engine Coolant Temperature Signal Extremely High
ECU-110.3	Service Alert	Engine Coolant Temperature Signal Out of Range High
ECU-110.4	Service Alert	Engine Coolant Temperature Signal Out of Range Low
ECU-110.15	Service Alert	Engine Coolant Temperature Signal Slightly High
ECU-110.16	Service Alert	Engine Coolant Temperature Signal Moderately High
ECU-110.17	Service Alert	Engine Coolant Temperature Signal Slightly Low
ECU-157.3	Service Alert	Fuel Rail Pressure Signal Out of Range High
ECU-157.4	Service Alert	Fuel Rail Pressure Signal Out of Range Low
ECU-157.10	Service Alert	Fuel Rail Preasure Rate of Change Abnormal
ECU-157.17	Service Alert	Fuel Rail Pressure Not Developed
ECU-158.17	Service Alert	ECU Power Down Error
ECU-174.0	Stop	Fuel Temperature Signal Extremely High
ECU-174.3	Service Alert	Fuel Temperature Signal Out of Range High
ECU-174.4	Service Alert	Fuel Temperature Signal Out of Range Low
ECU-174.16	Service Alert	Fuel Temperature Signal Moderately High
ECU-189.0	Stop	Engine Speed Derate Condition Exists
ECU-190.0	Stop	Engine Speed Extremely High
ECU-412.0	Stop	EGR Temperature Signal Extremely High

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ECU-412.3	Service Alert	EGR Temperature Signal Out of Range High
ECU-412.4	Service Alert	EGR Temperature Signal Out of Range Low
ECU-412.15	Service Alert	EGR Temperature Signal Slightly High
ECU-412.16	Stop	EGR Temperature Signal Moderately High
ECU-441.3	Service Alert	Gear Oil Temperature Signal Out of Range High
ECU-441.4	Service Alert	Gear Oil Temperature Signal Out of Range Low
ECU-611.3	Service Alert	Injector Shorted to Power
ECU-611.4	Service Alert	Injector Shorted to Ground
ECU-627.1	Service Alert	All Electronic Injector Curcuits Have High Resistance
ECU-629.12	Service Alert	ECU EEPROM Error
ECU-629.13	Stop	ECU Boot Block Error
ECU-636.2	Service Alert	Camshaft Sensor Signal Invalid
ECU-636.5	Service Alert	Camshaft Sensor Circuit Has High Resistance
ECU-636.6	Service Alert	Camshaft Sensor Circuit Has Low Resistance
ECU-636.8	Service Alert	Camshaft Sensor Signal Missing
ECU-636.10	Service Alert	Camshaft Signal Rate of Change Abnormal
ECU-637.2	Service Alert	Crankshaft Position Sensor Signal Invalid
ECU-637.5	Service Alert	Crankshaft Position Sensor Circuit Has High Resistance
ECU-637.6	Service Alert	Crankshaft Position Sensor Circuit Has Low Resistance
ECU-637.7	Service Alert	Crankshaft Position and Position Signals Out of Sync
ECU-637.8	Service Alert	Crankshaft Position Timing Sensor Signal Missing
ECU-637.10	Service Alert	Crankshaft Position Signal Rate of Change Abnormal
ECU-641.4	Service Alert	VGT Actuator Supply Vlotage Out of Range Low
ECU-641.12	Service Alert	VGT Actuator Communication Error
ECU-641.13	Service Alert	VGT Actuator Learn Error
ECU-641.16	Service Alert	Turbo Actuator Temperature Moderately High
ECU-651.2	Stop	Injector #1 Part # Data Invalid
ECU-651.5	Service Alert	Injector #1 Circuit Has High Resistance
ECU-651.6	Service Alert	Injector #1 Circuit Has Low Resistance
ECU-651.7	Service Alert	Injector #1 Not Responding
ECU-651.13	Service Alert	Injector #1 Calibration Fault
ECU-652.2	Stop	Injector #2 Part # Data Invalid
ECU-652.5	Service Alert	Injector #2 Circuit Has High Resistance
ECU-652.6	Service Alert	Injector #2 Circuit Has Low Resistance
ECU-652.7	Service Alert	Injector #2 Not Responding
ECU-652.13	Service Alert	Injector #2 Calibration Fault
ECU-653.2	Stop	Injector #3 Part # Data Invalid
ECU-653.5	Service Alert	Injector #3 Circuit Has High Resistance
ECU-653.6	Service Alert	Injector #3 Circuit Has Low Resistance
ECU-653.7	Service Alert	Injector #3 Not Responding
ECU-653.13	Service Alert	Injector #3 Calibration Fault
ECU-654.2	Stop	Injector #4 Part # Data Invalid
ECU-654.5	Service Alert	Injector #4 Circuit Has High Resistance
ECU-654.6	Service Alert	Injector #4 Circuit Has Low Resistance
ECU-654.7	Service Alert	Injector #4 Not Responding

FMI Number	Warning Light	DTC Description
ECU-654.13	Service Alert	Injector #4 Calibration Fault
ECU-655.2	Stop	Injector #5 Part # Data Invalid
ECU-655.5	Service Alert	Injector #5 Circuit Has High Resistance
ECU-655.6	Service Alert	Injector #5 Circuit Has Low Resistance
ECU-655.7	Service Alert	Injector #5 Not Responding
ECU-655.13	Service Alert	Injector #5 Calibration Fault
ECU-656.2	Stop	Injector #6 Part # Data Invalid
ECU-656.5	Service Alert	Injector #6 Circuit Has High Resistance
ECU-656.6	Service Alert	Injector #6 Circuit Has Low Resistance
ECU-656.7	Service Alert	Injector #6 Not Responding
ECU-656.13	Service Alert	Injector #6 Calibration Fault
ECU-1075.12	Service Alert	Low Pressure Fuel Pump Status Error
ECU-1136.0	Stop	ECU Temperature Signal Extremely High
ECU-1136.16	Service Alert	ECU Temperature Signal Moderately High
ECU-1172.3	Service Alert	Compressor Inlet Temperature Signal Out of Range High
ECU-1172.4	Service Alert	Compressor Inlet Temperature Signal Out of Range Low
ECU-1180.0	Stop	Turbine Inlet Temperature Signal Extremely High
ECU-1180.16	Service Alert	Turbine Inlet Temperature Signal Moderately High
ECU-1347.3	Stop	High Pressure Fuel Pump Control Valve Signal Out of Range High
ECU-1347.5	Stop	High Pressure Fuel Pump Solenoid Circuit Has High Resistance
ECU-1347.7	Service Alert	High Pressure Fuel Pump Not Able to Meet Required Rail Pressure
ECU-1569.31	Service Alert	Engine Power Derate Condition Exists
ECU-2630.0	Stop	Charge Air Cooler Outlet Temperature Signal Extremely High
ECU-2630.3	Service Alert	Charge Air Cooler Outlet Temperature Signal Out of Range High
ECU-2630.4	Service Alert	Charge Air Cooler Outlet Temperature Signal Out of Range Low
ECU-2630.15	Service Alert	Charge Air Cooler Outlet Temperature Signal Slightly High
ECU-2630.16	Service Alert	Charge Air Cooler Outlet Temperature Signal Moderately High
ECU-2659.2	Service Alert	EGR Mass Flow Rate Data Invalid
ECU-2659.15	Service Alert	EGR Mass Flow Rate Data Slightly High
ECU-2659.17	Service Alert	EGR Mass Flow Rate Data Slightly Low
ECU-2790.16	Service Alert	Calculated Compressor Outlet Temperature Moderately High
ECU-2791.2	Service Alert	EGR Valve Position Signal Invalid
ECU-2791.7	Service Alert	EGR Valve Not Reaching Expected Position
ECU-2791.13	Service Alert	EGR Valve Calibration Change Error
ECU-2791.31	Service Alert	EGR Valve Calibration Change Over A Long Time
ECU-2795.7	Service Alert	VGT Actuator Not Reaching Expected Position
ECU-3509.3	Stop	Sensor Supply #1 Voltage Out of Range High
ECU-3509.4	Stop	Sensor Supply #1 Voltage Out of Range Low
ECU-3510.3	Service Alert	Sensor Supply #2 Voltage Out of Range High
ECU-3510.4	Service Alert	Sensor Supply #2 Voltage Out of Range Low
ECU-3511.3	Service Alert	Sensor Supply #3 Voltage Out of Range High
ECU-3511.4	Service Alert	Sensor Supply #3 Voltage Out of Range Low
ECU-3512.3	Service Alert	Sensor Supply #4 Voltage Out of Range High
ECU-3512.4	Service Alert	Sensor Supply #4 Voltage Out of Range Low
ECU-3513.3	Service Alert	Sensor Supply #5 Voltage Out of Range High

FMI Number	Warning Light	DTC Description
ECU-3513.4	Service Alert	Sensor Supply #5 Voltage Out of Range Low
ECU-523379.3	Service Alert	Single Point Ground #7 Fault
ECU-523744.31	Service Alert	A/C Compressor is ON When it Should be Off

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