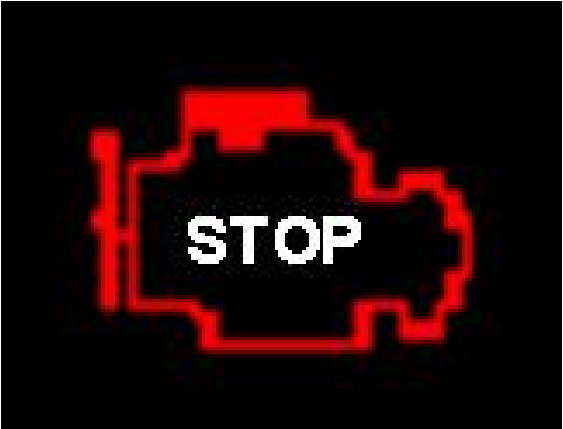




Mercedes Engine



ECU128

Mercedes

PID/SID	J1587	FMI	
SID	1	5	Injector Cylinder 1; Nozzle Control Valve or Spill Control Valve; Jammed Closed
SID	1	6	Injector Cylinder #1 Needle Control Valve; Valve Shorted Circuit
SID	1	7	Injector Cylinder 1; Nozzle Control Valve or Spill Control Valve; Jammed Open or Leakage
SID	1	10	Injector Cylinder #1 Needle Control Valve Abnormal Rate of Change
SID	1	14	Injector Cylinder #1 Needle Control Valve Abnormal Operation
SID	1	31	Engine Smoothness Control / Cylinder #1 Value Out of Range
SID	1	31	Cylinder 1 Misfire detected
SID	2	5	Injector Cylinder 2; Nozzle Control Valve or Spill Control Valve; Jammed Closed
SID	2	6	Injector Cylinder #2 Needle Control Valve; Valve Shorted Circuit
SID	2	7	Injector Cylinder 2; Nozzle Control Valve or Spill Control Valve; Jammed Open or Leakage
SID	2	10	Injector Cylinder #2 Needle Control Valve Abnormal Rate of Change
SID	2	14	Injector Cylinder #2 Needle Control Valve Abnormal Operation
SID	2	31	Engine Smoothness Control / Cylinder #2 Value Out of Range
SID	2	31	Cylinder 2 Misfire detected
SID	3	5	Injector Cylinder 3; Nozzle Control Valve or Spill Control Valve; Jammed Closed
SID	3	6	Injector Cylinder #3 Needle Control Valve; Valve Shorted Circuit
SID	3	7	Injector Cylinder 3; Nozzle Control Valve or Spill Control Valve; Jammed Open or Leakage
SID	3	10	Injector Cylinder #3 Needle Control Valve Abnormal Rate of Change
SID	3	14	Injector Cylinder #3 Needle Control Valve Abnormal Operation
SID	3	31	Engine Smoothness Control / Cylinder #3 Value Out of Range
SID	3	31	Cylinder 3 Misfire detected
SID	4	5	Injector Cylinder 4; Nozzle Control Valve or Spill Control Valve; Jammed Closed
SID	4	6	Injector Cylinder #4 Needle Control Valve; Valve Shorted Circuit
SID	4	7	Injector Cylinder 4; Nozzle Control Valve or Spill Control Valve; Jammed Open or Leakage
SID	4	10	Injector Cylinder #4 Needle Control Valve Abnormal Rate of Change
SID	4	14	Injector Cylinder #4 Needle Control Valve Abnormal Operation
SID	4	31	Engine Smoothness Control / Cylinder #4 Value Out of Range
SID	4	31	Cylinder 4 Misfire detected
SID	5	5	Injector Cylinder 5; Nozzle Control Valve or Spill Control Valve; Jammed Closed
SID	5	6	Injector Cylinder #5 Needle Control Valve; Valve Shorted Circuit
SID	5	7	Injector Cylinder 5; Nozzle Control Valve or Spill Control Valve; Jammed Open or Leakage
SID	5	10	Injector Cylinder #5 Needle Control Valve Abnormal Rate of Change
SID	5	14	Injector Cylinder #5 Needle Control Valve Abnormal Operation
SID	5	31	Engine Smoothness Control / Cylinder #5 Value Out of Range
SID	5	31	Cylinder 5 Misfire detected
SID	6	5	Injector Cylinder 6; Nozzle Control Valve or Spill Control Valve; Jammed Closed
SID	6	6	Injector Cylinder #6 Needle Control Valve; Valve Shorted Circuit
SID	6	7	Injector Cylinder 6; Nozzle Control Valve or Spill Control Valve; Jammed Open or Leakage
SID	6	10	Injector Cylinder #6 Needle Control Valve Abnormal Rate of Change
SID	6	14	Injector Cylinder #6 Needle Control Valve Abnormal Operation
SID	6	31	Engine Smoothness Control / Cylinder #6 Value Out of Range
SID	7	6	Injector Cylinder #7 Needle Control Valve; Valve Shorted Circuit
SID	7	10	Injector Cylinder #7 Needle Control Valve Abnormal Rate of Change
SID	7	14	Injector Cylinder #7 Needle Control Valve Abnormal Operation
SID	7	31	Engine Smoothness Control / Cylinder #7 Value Out of Range
SID	8	6	Injector Cylinder #8 Needle Control Valve; Valve Shorted Circuit
SID	8	10	Injector Cylinder #8 Needle Control Valve Abnormal Rate of Change
SID	8	14	Injector Cylinder #8 Needle Control Valve Abnormal Operation
SID	8	31	Engine Smoothness Control / Cylinder #8 Value Out of Range
SID	21	1	Crankshaft Position Sensor Signal Voltage Too Low
SID	21	2	No Match of Camshaft and Crankshaft Signals
SID	21	3	Crankshaft Position Sensor Open Circuit
SID	21	4	Crankshaft Position Sensor Short to Ground
SID	21	8	Crankshaft Position Sensor Time Out
SID	21	14	Crankshaft Position Sensor Pins Swapped

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Mercedes

PID/SID	J1587	FMI	
SID	26	3	Digital Output 4 09 Circuit Failed High
SID	26	4	Digital Output 4 09 Circuit Failed Low
PID	27	3	EGR Valve Position Circuit Failed High
SID	27	3	Turbo Control Circuit Failed High
PID	27	4	EGR Valve Position Circuit Failed Low
SID	27	4	Turbo Control Circuit Failed Low
SID	27	5	Turbo Control Circuit Open
PID	27	7	EGR Valve Stuck Open
SID	32	3	Waste Gate Circuit Failed High
SID	32	4	Waste Gate Circuit Failed Low
SID	32	5	Waste Gate Circuit Failed Open
SID	32	7	Smart Remote Actuator 1 (Wastegate); Failsafe Mode; Motor On
SID	32	8	Smart Remote Actuator 1 (Wastegate); Internal Test Running
SID	32	9	Smart Remote Actuator 1 (Wastegate); Failsafe Mode; Motor Off
SID	32	11	Smart Remote Actuator 1 (Wastegate); Restricted Operability
SID	32	14	Smart Remote Actuator 1 (Wastegate); No Failsafe Mode; Motor Off
SID	32	15	Smart Remote Actuator 1 (Wastegate); Temperature Warning
SID	32	16	Smart Remote Actuator 1 (Wastegate); Temperature Fault
SID	32	31	Smart Remote Actuator 1 (Wastegate); Unknown Error Code
SID	33	3	Fan Stage 1 Circuit Failed High
SID	33	4	Fan Stage 1 Circuit Failed Low
SID	33	5	Fan Stage 1 Circuit Failed Open
SID	39	2	Starter Switch Inconsistent
SID	39	3	Engine Starter Relay Shorted to High Source
SID	39	4	Engine Starter Relay Open Load Failure
SID	39	5	Engine Starter Relay Open Circuit
SID	39	7	Engine Starter Relay - Starter Does Not Engage
SID	39	7	Engine Starter Relay Jammed
SID	39	14	Starter Electronic Fault / ECU internal (Main)
SID	39	14	Starter Jammed (Tooth to Tooth Jam)
SID	39	31	Starter Electronic Fault / ECU internal (Res)
SID	40	3	Constant Throttle Valve Circuit Failed High
SID	40	4	Constant Throttle Valve Circuit Failed Low
SID	40	5	Constant Throttle Valve Circuit Failed Open
SID	40	3	Digital Output 3 17 Circuit Failed High
SID	40	4	Digital Output 3 17 Circuit Failed Low
PID	43	2	Ignition Switch Not Plausible
PID	45	0	Grid Heater Permanently On
PID	45	3	Grid Heater Circuit Failed High
PID	45	4	Grid Heater Circuit Failed Low
PID	45	7	Grid Heater Defect
PID	45	14	Grid Heater Special Instructions
PID	51	0	Intake Air Throttle Position Low
PID	51	1	Intake Air Throttle Position High
PID	51	2	Intake Throttle Position Deviation Error
PID	51	2	Intake Throttle Valve; Spring Response Time Not Plausible
SID	51	3	Intake Air Throttle Circuit Failed High
SID	51	3	Water Pump 1 Circuit Failed High
SID	51	4	Intake Air Throttle Circuit Failed Low
SID	51	4	Water Pump 1 Circuit Failed Low
SID	51	5	Water Pump 1 Circuit Failed Open
PID	51	7	Intake Throttle Auto Calibration Error

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PID/SID	J1587	FMI	
PID	51	7	Intake Throttle Valve; Stuck
PID	51	8	Intake Throttle Valve; Current Deviation Too High
PID	51	14	Intake Throttle Valve; Integrated Absolute Error Plausibility
SID	51	3	Digital Output 3 09 Circuit Failed High
SID	51	4	Digital Output 3 09 Circuit Failed Low
SID	52	3	Digital Output 4 07 Circuit Failed High
SID	52	4	Digital Output 4 07 Circuit Failed Low
SID	53	3	Electrostatic Oil Separator Circuit Failed High
SID	53	4	Electrostatic Oil Separator Circuit Failed Low
SID	53	5	Electrostatic Oil Separator Circuit Failed Open
SID	53	3	Digital Output 1 13 Circuit Failed High
SID	53	4	Digital Output 1 13 Circuit Failed Low
SID	54	3	Digital Output 3 10 Circuit Failed High
SID	54	4	Digital Output 3 10 Circuit Failed Low
SID	55	3	Turbo Compound Valve Circuit Failed High
SID	55	4	Turbo Compound Valve Circuit Failed Low
SID	55	5	Turbo Compound Valve Circuit Failed Open
SID	55	3	Digital Output 2 10 Circuit Failed High (CEL / AWL Lamp)
SID	55	4	Digital Output 2 10 Circuit Failed Low (CEL / AWL Lamp)
SID	56	3	Digital Output 3 12 Circuit Failed High
SID	56	4	Digital Output 3 12 Circuit Failed Low
SID	57	3	Actuator Turbo Compound Bypass Circuit Failed High
SID	57	4	Actuator Turbo Compound Bypass Circuit Failed Low
SID	57	5	Actuator Turbo Compound Bypass Circuit Failed Open
SID	59	3	Intake Throttle Valve Circuit Failed High
SID	59	4	Intake Throttle Valve Circuit Failed Low
SID	59	5	Intake Throttle Valve Circuit Failed Open
SID	59	14	Intake Air Throttle Control Electrical Fault
SID	60	3	Fan Stage 2 Circuit Failed High
SID	60	4	Fan Stage 2 Circuit Failed Low
SID	60	5	Fan Stage 2 Circuit Failed Open
SID	64	1	Camshaft Position Sensor Signal Voltage Too Low
SID	64	3	Camshaft Position Sensor Open Circuit
SID	64	4	Camshaft Position Sensor Short to Ground
SID	64	8	Camshaft Position Sensor Time Out
SID	64	14	Camshaft Position Sensor Pins Swapped
SID	70	3	Gridheater Circuit Failed High
SID	70	4	Gridheater Circuit Failed Low
SID	70	5	Gridheater Circuit Failed Open
PID	70	2	Park Brake Status Not Plausible (Vehicle Moving)
SID	79	3	Jake Brake Stage 1 Circuit Failed High
SID	79	4	Jake Brake Stage 1 Circuit Failed Low
SID	79	5	Jake Brake Stage 1 Circuit Failed Open
SID	80	3	Jake Brake Stage 2 Circuit Failed High
SID	80	4	Jake Brake Stage 2 Circuit Failed Low
SID	80	5	Jake Brake Stage 2 Circuit Failed Open
SID	81	3	Exhaust Brake Circuit Failed High
SID	81	4	Exhaust Brake Circuit Failed Low
SID	81	5	Exhaust Brake Circuit Failed Open
PID	84	0	Vehicle Speed Above Programmable Threshold1 While Driving
PID	84	2	VSS Anti Tamper Detection via Virtual Gear Ratio
PID	84	3	Vehicle Speed Sensor Circuit Failed High
PID	84	4	Vehicle Speed Sensor Circuit Failed Low
PID	84	6	VSS Anti-Tamper Detection via ABS Vehicle Speed Comparison
PID	84	8	VSS Anti Tamper Detection via Fixed Frequency Device
PID	84	11	Vehicle Speed Above Programmable Threshold2 While Driving

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PID/SID	J1587	FMI	
PID	84	13	J1939 Wheel-Based Vehicle Speed Signal from Source#1 is missing
PID	84	13	J1939 Wheel-Based Vehicle Speed Signal from Source#2 is missing
PID	84	13	J1939 Wheel-Based Vehicle Speed Signal from Source#3 is missing
PID	84	19	J1939 Wheel-Based Vehicle Speed Signal from Source#1 is erratic
SID	84	19	J1939 Wheel-Based Vehicle Speed Signal from Source#2 is erratic
PID	84	19	J1939 Wheel-Based Vehicle Speed Signal from Source#3 is erratic
PID	84	20	Vehicle Speed Sensor Drifted High Error (VSS signal not plausible)
PID	84	21	Vehicle Speed Failure
PID	91	3	Accelerator Pedal Circuit Failed High
PID	91	3	Accelerator Pedal Signal Circuit Failed High
PID	91	4	Accelerator Pedal Circuit Failed Low
PID	91	7	Pwm Accelerator Pedal Idle Not Recognized
PID	91	8	Pwm Accelerator Pedal Signal 1 Frequency Out Of Range
PID	91	13	Accelerator Pedal Learn Error
PID	91	14	Pwm Accelerator Pedal Not Learned
PID	91	31	Pwm Accelerator Pedal Learned Range to Large
PID	91	8	Pwm Accelerator Pedal Signal 2 Frequency Out Of Range
PID	91	14	Pwm Accelerator Pedal GAS1 and GAS2 Signal Missing
PID	94	3	Fuel Compensation Pressure Sensor Circuit Failed High
PID	94	4	Fuel Compensation Pressure Sensor Circuit Failed Low
PID	94	31	Fuel Cut Off Valve Pressure Not Plausible
PID	97	3	Water in Fuel Circuit Failed High
PID	97	4	Water in Fuel Circuit Failed Low
PID	98	3	Oil Level Circuit Failed High
PID	98	4	Oil Level Circuit Failed Low
PID	98	13	Oil Level Measurement; Configuration Error
PID	98	14	Oil Level Measurement; Oil Level Too Low or Too High
PID	98	0	Oil Level High
PID	98	1	Oil Level Very Low
PID	98	18	Oil Level Low
PID	100	1	Engine Oil Pressure Low
PID	100	2	Oil Pressure Plausibility - Engine Running
PID	100	3	Engine Oil Pressure Circuit Failed High
PID	100	4	Engine Oil Pressure Circuit Failed Low
PID	100	20	Oil Pressure Plausibility - Stop
PID	100	1	Oil Pressure Very Low
PID	100	18	Oil Pressure Low
PID	103	0	Turbo Charger Speed Above Threshold (Low Box)
PID	103	1	Turbo Charger Speed Below Threshold (High Box)
PID	103	2	Turbocharger Speed Not Plausible
PID	103	3	Turbo Charger Speed Sensor Circuit Failed High
PID	103	4	Turbo Charger Speed Sensor Circuit Failed Low
PID	105	2	Intake Manifold Temperature Plausibility Error
PID	105	3	Intake Manifold Temperature Circuit Failed High
PID	105	4	Intake Manifold Temperature Circuit Failed Low
PID	105	14	Difference Intake Manifold Temperature and EGR Temp. Less Than Threshold (Low Box)
PID	105	14	Difference Intake Manifold and I Cooler Temperature Out Less Than Threshold (Low Box)
PID	105	20	Intake Manifold Temperature Drift (Low Box)
PID	105	21	Intake Manifold Temperature Drift (High Box)
PID	105	31	Difference Intake Manifold and I Cooler Temperature Out Less Than Threshold (High Box)
PID	106	0	Inlet Manifold Pressure Failed High
PID	106	1	Inlet Manifold Pressure Failed Low
PID	106	3	Intake Manifold Pressure Circuit Failed High
PID	106	3	Inlet Manifold Pressure Sampling Range Failed
PID	106	4	Intake Manifold Pressure Circuit Failed Low
PID	106	20	Ambient and Inlet Manifold Pressure Difference (Low Box)

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PID/SID	J1587	FMI	
PID	106	20	Intake Manifold Pressure Plausibility (Low Box)
PID	106	21	Ambient and Inlet Manifold Pressure Difference (High Box)
PID	106	21	Intake Manifold Pressure Plausibility Error; Pressure Too Low (High Box)
PID	107	0	Air Filter Restriction High
PID	107	9	J1939 PROP11 message is missing
PID	108	2	Ambient Pressure Plausibility Fault (High Box) 1
PID	108	3	Barometric Pressure Circuit Failed High
PID	108	4	Barometric Pressure Circuit Failed Low
PID	108	20	Ambient Pressure Plausibility Fault (High Box) 2
PID	110	0	Coolant Temperature High
PID	110	2	Engine Coolant Sensor (OUT); General Temp. Plausibility Error
PID	110	3	Engine Coolant Outlet Temperature Circuit Failed High
PID	110	3	Engine Coolant Inlet Temperature Circuit Failed High
PID	110	4	Engine Coolant Outlet Temperature Circuit Failed Low
PID	110	4	Engine Coolant Inlet Temperature Circuit Failed Low
PID	110	14	Coolant Temperature / Engine Oil Temperature Plausibility Fault
PID	110	0	Coolant Temperature Very High
PID	110	16	Coolant Temperature High
PID	111	1	Coolant Level Very Low
PID	111	3	Coolant Level Circuit Failed High
PID	111	4	Coolant Level Circuit Failed Low
PID	111	18	Coolant Level Low
SID	123	3	Digital Output 4 10 Circuit Failed Open
SID	123	4	Digital Output 4 10 Circuit Failed Low
SID	123	7	Optimized Idle Safety Loop Faulted
PID	132	1	Air Mass Flow Too Low
PID	132	7	Intake Air Throttle Valve Closure Detection- Positive Torque
PID	132	14	Intake Air Throttle Valve Closure Detection -Braking Condition
SID	146	0	EGR Valve Position Feedback Failed (High Box)
SID	146	1	EGR Valve Position Feedback Failed (Low Box)
SID	146	2	EGR Valve Position Feedback Failed
PID	146	3	EGR Valve Circuit Failed High
PID	146	4	EGR Valve Circuit Failed Low
PID	146	5	EGR Valve Circuit Failed Open
SID	146	7	EGR Valve Position Incorrect
SID	146	7	Smart Remote Actuator 3 (EGR); Failsafe Mode; Motor On
SID	146	8	Smart Remote Actuator 3 (EGR); Internal Test Running
SID	146	9	Smart Remote Actuator 3 (EGR); Failsafe Mode; Motor Off
SID	146	11	Smart Remote Actuator 3 (EGR); Restricted Operability
SID	146	14	EGR Valve Position Positive Torque Error
SID	146	14	Smart Remote Actuator 3 (EGR); No Failsafe Mode; Motor Off
SID	146	15	Smart Remote Actuator 3 (EGR); Temperature Warning
SID	146	16	Smart Remote Actuator 3 (EGR); Temperature Fault
SID	146	31	Smart Remote Actuator 3 (EGR); Unknown Error Code
SID	147	7	Turbo Actuator; Failsafe Mode; Motor On
SID	147	8	Turbo Actuator; Internal Test Running
SID	147	9	Turbo Actuator; Failsafe Mode; Motor Off
SID	147	11	Turbo Actuator; Restricted Operability
SID	147	14	Turbo Actuator; No Failsafe Mode; Motor Off
SID	147	15	Turbo Actuator; Temperature Warning
SID	147	16	Turbo Actuator; Temperature Fault
SID	147	31	Turbo Actuator; Unknown Error Code
SID	155	0	Engine Air Flow Out of Range Low
SID	155	0	Soot Level Very High
SID	155	0	Turbocharger Compressor Inlet Differential Pressure Too High (Low Box)
SID	155	1	EDV Failed Self Test

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PID/SID	J1587	FMI	
SID	155	1	Turbocharger Compressor Inlet Differential Pressure Too Low (High Box)
SID	155	2	Engine Coolant Sensor (IN); General Temp. Plausibility Error
SID	155	3	Service Push Button Circuit Failed High
SID	155	3	Compressor Differential Pressure Outlet Failed High
SID	155	3	Flap In Front of EGR Cooler Circuit Failed High
SID	155	3	Water Pump 2 Circuit Failed High
SID	155	3	Switchable Air Compressor Circuit Failed High
SID	155	3	EGR Pressure Failed High
SID	155	3	Proportional Valve Bank 1 Circuit Failed High
SID	155	3	Proportional Valve Bank 2 Circuit Failed High
SID	155	3	Compressor Differential Pressure Inlet Failed High
SID	155	3	Oil Separator Circuit Failed High
SID	155	4	Compressor Differential Pressure Outlet Failed Low
SID	155	4	Flap In Front of EGR Cooler Circuit Failed Low
SID	155	4	Water Pump 2 Circuit Failed Low
SID	155	4	Switchable Air Compressor Circuit Failed Low
SID	155	4	EGR Pressure Failed Low
SID	155	4	Proportional Valve Bank 2 Circuit Failed Low
SID	155	4	Compressor Differential Pressure Inlet Failed Low
SID	155	4	Oil Separator Circuit Failed Low
SID	155	5	Flap In Front of EGR Cooler Circuit Failed Open
SID	155	5	Switchable Air Compressor Circuit Failed Open
SID	155	5	Turbocharger Compressor Inlet Differential Pressure Sampling Range Failure
SID	155	6	Rail Pressure Governor Error; Current Too High
SID	155	6	Current Flow on HS1 IM1 Too High
SID	155	7	Smart Remote Actuator 2; Failsafe Mode; Motor On
SID	155	7	FCV Failed Self Test
SID	155	7	Oil Separator; Max. Duration Time Reached
SID	155	8	Smart Remote Actuator 2; Internal Test Running
SID	155	9	Smart Remote Actuator 2; Failsafe Mode; Motor Off
SID	155	11	Smart Remote Actuator 2; Restricted Operability
SID	155	13	Turbocharger Compressor Outlet Differential Pressure Sensor Out Of Calibration 1
SID	155	13	Turbocharger Compressor Outlet Differential Pressure Sensor Out Of Calibration 2
SID	155	13	Turbocharger Compressor Inlet Differential Pressure Sensor Out Of Calibration 1
SID	155	13	Turbocharger Compressor Inlet Differential Pressure Sensor Out Of Calibration 2
SID	155	14	Fuel Pressure Too High/Too Low
SID	155	14	Smart Remote Actuator 2; No Failsafe Mode; Motor Off
SID	155	14	Rail Pressure Governor; Valve Stays Open
SID	155	14	Rail Pressure Governor; Leakage in High Pressure Too High
SID	155	14	Rail Pressure Governor Sensor; Signal Drift
SID	155	14	Rail Pressure Governor Sensor; Sensor Supply Line Broken
SID	155	14	High Pressure Pump; Leakage or TDC Position Wrong
SID	155	15	Smart Remote Actuator 2; Temperature Warning
SID	155	15	DPF Zone 3 Condition
SID	155	15	DPF Ash Clean Request
SID	155	16	Smart Remote Actuator 2; Temperature Fault
SID	155	16	Soot Level High
SID	155	16	DPF Ash Derate Request
SID	155	31	Smart Remote Actuator 2; Unknown Error Code
SID	155	31	Cylinder 6 Misfire Detected
SID	155	31	Cylinder 7 Misfire Detected
SID	155	31	Cylinder 8 Misfire Detected
SID	155	31	DPF Zone 2 Condition
SID	155	13	20ms ECU OS Task Locked in an Endless Loop
SID	155	13	20ms ECU OS Task Timed out Prior to Completion
SID	155	13	1000ms ECU OS Task Locked in an Endless Loop

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PID/SID	J1587	FMI	
SID	155	13	1000ms ECU OS Task Timed out Prior to Completion
SID	155	14	MCM Fault Codes Unavailable via J1939 and J1587
SID	155	14	MCM Fault Code Table Inconsistent - Upgrade MCM Software
SID	155	14	Insufficient Static Fault Code Storage Memory - Upgrade CPC Software
SID	155	14	MCM Fault Code Table Inconsistent - Upgrade MCM Software
SID	155	19	Adaptive Cruise Control Message Not Received
SID	155	9	DPF Regen Inhibit MUX Switch Message Stopped Arriving
SID	155	13	DPF Regen Inhibit MUX Switch Message Contains SNV Indicator
SID	155	14	DPF Regen Inhibit MUX Switch Message Not Received this Ign Cycle
SID	155	19	DPF Regen Inhibit MUX Switch Message Contains Data Error Indicator
SID	155	9	DPF Regen Force MUX Switch Message Stopped Arriving
SID	155	13	DPF Regen Force MUX Switch Message Contains SNV Indicator
SID	155	14	DPF Regen Force MUX Switch Message Not Received this Ign Cycle
SID	155	19	DPF Regen Force MUX Switch Message Contains Data Error Indicator
SID	156	4	Ether Start; Shorted to Ground
SID	156	5	Water Pump 2 Circuit Failed Open
SID	156	14	Misfire Detected
SID	157	3	Ether Start; Shorted to Battery
SID	157	4	RCP Test Function 1 Circuit Failed Low
SID	158	3	RCP Test Function 1 Circuit Failed High
SID	158	5	Ether Start; Open Load
SID	159	5	RCP Test Function 1 Circuit Failed Open
SID	160	4	RCP Test Function 2 Circuit Failed Low
SID	161	3	RCP Test Function 2 Circuit Failed High
SID	162	5	RCP Test Function 2 Circuit Failed Open
SID	163	4	Volute Control Valve; Shorted to Ground
PID	163	13	J1939 Transmission Current Gear Signal is missing
PID	163	19	J1939 Transmission Current Gear Signal is erratic
PID	164	3	Rail Pressure Governor Sensor Circuit Failed High
PID	164	3	Rail Pressure Governor (High Side) Error
SID	164	3	Volute Control Valve; Shorted to Battery
PID	164	4	Rail Pressure Governor Sensor Circuit Failed Low
PID	164	4	Rail Pressure Governor (Low Side) Error
PID	164	5	Rail Pressure Governor Error; Current Governor; Current Too Low
PID	164	7	Rail Pressure Governor Error; Pressure Governor; Pressure Not Plausible
PID	164	14	Rail Pressure Governor Error; Open Loop Error
SID	165	5	Volute Control Valve; Open Load
SID	166	4	Volute Shut Off Valve; Shorted to Ground
SID	167	3	Volute Shut Off Valve; Shorted to Battery
PID	168	0	Battery Voltage High
PID	168	1	Battery Voltage Low
SID	168	5	Volute Shut Off Valve; Open Load
PID	168	0	Battery Voltage Very Low
PID	168	0	Battery Voltage High
PID	168	14	Opt Idle Detected Charging System or Battery Failure
PID	168	14	ECU powerdown not completed (Main Battery Terminal Possibly Floating)
PID	168	18	Battery Voltage Low
SID	169	4	Function 30 Circuit Failed Low
SID	170	3	Function 30 Circuit Failed High
PID	171	3	Ambient Temperature Circuit Failed High
PID	171	4	Ambient Temperature Circuit Failed Low
SID	171	5	Function 30 Circuit Failed Open
PID	171	2	Ambient Temperature Sensor Data Erratic
PID	171	9	J1587 Ambient Air Temp Sensor Data Message Stopped Arriving
PID	171	14	J1587 Ambient Air Temp Sensor Data Not Received This Ign Cycle
SID	172	4	Function 31 Circuit Failed Low

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PID/SID	J1587	FMI	
SID	173	3	Function 31 Circuit Failed High
PID	174	0	Fuel Temperature Too High
PID	174	2	Fuel Temperature Sensor; General Temp. Plausibility
PID	174	3	Fuel Temperature Circuit Failed High
PID	174	4	Fuel Temperature Circuit Failed Low
SID	174	5	Function 31 Circuit Failed Open
PID	175	2	Engine Oil Temperature Sensor; General Temp. Plausibility
PID	175	3	Engine Oil Temperature Circuit Failed High
PID	175	4	Engine Oil Temperature Circuit Failed Low
PID	175	14	Engine Oil Temperature Sensor Plausibility Fault
PID	187	3	Idle Volume Sensor Shorted to Battery
PID	187	4	Idle Volume Sensor Shorted to Ground
PID	190	0	Engine Speed High
SID	203	2	Throttle inhibit switch signal not plausible due to excess vehicle speed
SID	211	3	Multiplexer 2 Channel 1; Shorted High
SID	211	3	Multiplexer 2 Channel 2; Shorted High
SID	211	3	3V Sensor Supply Bank 1 Circuit Failed High
SID	211	3	Multiplexer 3 Channel 1; Shorted High
SID	211	3	Multiplexer 3 Channel 2; Shorted High
SID	211	3	3V Sensor Supply Bank 2 Circuit Failed High
SID	211	4	3V Sensor Supply Bank 1 Circuit Failed Low
SID	211	4	3V Sensor Supply Bank 2 Circuit Failed Low
SID	211	3	Accelerator Pedal Supply Voltage Circuit Failed High
SID	211	3	Accelerator Pedal Supply Voltage Circuit Failed High
SID	211	4	Accelerator Pedal Supply Voltage Circuit Failed Low
SID	211	4	Pwm Accelerator Pedal Supply Voltage Missing
SID	212	3	5V Sensor Supply Bank 1 Circuit Failed High
SID	212	3	Multiplexer 1 Channel 1; Shorted High
SID	212	3	Multiplexer 1 Channel 2; Shorted High
SID	212	3	5V Sensor Supply Bank 2 Circuit Failed High
SID	212	4	5V Sensor Supply Bank 1 Circuit Failed Low
SID	212	4	5V Sensor Supply Bank 2 Circuit Failed Low
SID	230	2	Idle Validation Switch Inputs Reversed
SID	230	3	Idle Validation Switch 1 Circuit Failed High
SID	230	4	Idle Validation Switch 1 Circuit Failed Low
SID	230	5	Idle Validation Switch 2 Circuit Failed Low
SID	230	6	Idle Validation Switch 2 Circuit Failed High
SID	231	9	J1939 Retarder Fluid Message is missing
SID	231	9	J1939 EEC2 Message is missing
SID	231	9	J1939 ETC1 Message is missing
SID	231	13	J1939 Transmission Output Shaft Speed Signal is missing
SID	231	19	J1939 Transmission Output Shaft Speed Signal is erratic
SID	231	9	J1939 ETC2 Message is missing
SID	231	9	J1939 CCVS Message from Source #1 is missing
SID	231	9	J1939 CCVS Message from Source #2 is missing
SID	231	9	J1939 CCVS Message from Source #3 is missing
SID	231	14	J1939 Data Link Failure
SID	231	9	J1939 EBC2 Message from ABS is missing
SID	231	13	J1939 Front Axle Speed Signal is missing
SID	231	19	J1939 Front Axle Speed Signal is erratic
SID	231	9	J1939 EBC1 Message is missing
SID	231	13	J1939 Engine Retarder Selection Signal Missing
SID	231	19	J1939 Engine Retarder Selection Signal Erratic
SID	231	9	J1939 PTO Message Not Received This Ignition Cycle
SID	231	9	J1939 CM1 Message is missing
SID	231	9	Adaptive Cruise Control Device Reporting Error

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PID/SID	J1587	FMI	
SID	231	9	J1939 TCO1 Message is missing
SID	231	13	J1939 Tachograph Vehicle Speed Signal is missing
SID	231	19	J1939 Tachograph Vehicle Speed Signal is erratic
SID	231	9	J1939 ERC1 Message is missing
SID	231	9	J1939 TCFG2 Message is missing
SID	231	9	J1939 ETC7 Message is missing
SID	231	9	J1939 ESS Message is missing
SID	233	12	CPC2 Hardware Failure
SID	234	13	J1939 Park Brake Switch Signal from Source #1 is missing
SID	234	13	J1939 Park Brake Switch Signal from Source #2 is missing
SID	234	13	J1939 Park Brake Switch Signal from Source #3 is missing
SID	234	19	J1939 Park Brake Switch Signal from Source #1 is erratic
SID	234	19	J1939 Park Brake Switch Signal from Source #2 is erratic
SID	234	19	J1939 Park Brake Switch Signal from Source #3 is erratic
SID	242	13	J1939 Cruise Control Accelerate Switch Signal from Source #1 is missing
SID	242	13	J1939 Cruise Control Accelerate Switch Signal from Source #2 is missing
SID	242	13	J1939 Cruise Control Accelerate Switch Signal from Source #3 is missing
SID	242	19	J1939 Cruise Control Accelerate Switch Signal from Source #1 is erratic
SID	242	19	J1939 Cruise Control Accelerate Switch Signal from Source #2 is erratic
SID	242	19	J1939 Cruise Control Accelerate Switch Signal from Source #3 is erratic
SID	243	4	Cruise Control SET and RESUME Circuits Failed Low
SID	243	13	J1939 Cruise Control Coast Switch Signal from Source #1 is missing
SID	243	13	J1939 Cruise Control Coast Switch Signal from Source #2 is missing
SID	243	13	J1939 Cruise Control Coast Switch Signal from Source #3 is missing
SID	243	19	J1939 Cruise Control Coast Switch Signal from Source #1 is erratic
SID	243	19	J1939 Cruise Control Coast Switch Signal from Source #2 is erratic
SID	243	19	J1939 Cruise Control Coast Switch Signal from Source #3 is erratic
SID	244	13	J1939 Cruise Control Enable Switch Signal from Source #1 is missing
SID	244	13	J1939 Cruise Control Enable Switch Signal from Source #2 is missing
SID	244	13	J1939 Cruise Control Enable Switch Signal from Source #3 is missing
SID	244	19	J1939 Cruise Control Enable Switch Signal from Source #1 is erratic
SID	244	19	J1939 Cruise Control Enable Switch Signal from Source #2 is erratic
SID	244	19	J1939 Cruise Control Enable Switch Signal from Source #3 is erratic
SID	246	2	Service Brake Status Not Plausible
SID	246	13	J1939 Service Brake Switch Signal from Source #1 is missing
SID	246	13	J1939 Service Brake Switch Signal from Source #2 is missing
SID	246	13	J1939 Service Brake Switch Signal from Source #3 is missing
SID	246	19	J1939 Service Brake Switch Signal from Source #1 is erratic
SID	246	19	J1939 Service Brake Switch Signal from Source #2 is erratic
SID	246	19	J1939 Service Brake Switch Signal from Source #3 is erratic
PID	247	0	MCM Engine Hours Data higher than expected
PID	247	1	MCM Engine Hours Data lower than expected
PID	247	9	MCM Engine Hours Data not received or stopped arriving
PID	247	10	MCM Engine Hours Data increasing at an implausible rate
PID	247	14	MCM Reported Ash Mileage is Lower then the CPC Stored Value
SID	248	2	Invalid Data on Engine CAN Link
SID	248	9	No Data Received from Engine CAN Link
SID	248	9	Engine CAN Low Wire Defect - (wire 1)
SID	248	9	Engine CAN High Wire Defect - (wire 2)
SID	248	2	ECAN ID_1629 Diagnostic Message Reporting Data Not Available
SID	248	4	ECAN Link Circuit Failure
SID	248	9	ECAN ID_1629 Diagnostic Message No Longer Being Received
SID	248	9	Incorrect MCM System ID Received
SID	248	9	MCM System ID Not Received or Stopped Arriving
SID	248	10	ECAN ID_1629 Reporting Inconsistent Number of Frames
SID	248	13	ECAN ID_1629 Diagnostic Message Not Received This Ignition Cycle

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PID/SID	J1587	FMI	
SID	248	14	ECAN_ID_1629 Diagnostic Message Reporting an Unknown MUID
SID	250	14	J1708 Data Link Failure
SID	251	4	Proportional Valve Bank 1 Circuit Failed Low
SID	253	12	EEPROM Read / Write Operation Failed
SID	253	13	Calibration Data Not Plausible
SID	253	13	Calibration Data Not Plausible (CPLD)
SID	253	2	EEPROM Checksum Failure
SID	253	2	EEPROM Checksum Failure for the SCR Block
SID	253	13	SCR Number Out of Range
SID	254	14	XFLASH Static Fault Code Memory Page Read Write Failure
SID	254	2	CPC Hardware/Software Mismatch
SID	254	12	DDEC Data Xflash Write Error. Replace CPC2.
SID	257	3	MIL Lamp Circuit Failed High
SID	257	4	MIL Lamp Circuit Failed Low
SID	257	5	MIL Lamp Circuit Failed Open
SID	257	3	Digital Output 3 16 Circuit Failed High
SID	257	4	Digital Output 3 16 Circuit Failed Low
SID	258	3	Digital Output 4 06 Circuit Failed High
SID	258	4	Digital Output 4 06 Circuit Failed Low
SID	259	3	Turbo Brake Sleeve Circuit Failed High
SID	259	4	Turbo Brake Sleeve Circuit Failed Low
SID	259	5	Turbo Brake Sleeve Circuit Failed Open
SID	259	3	Digital Output 1 05 Circuit Failed High
SID	259	4	Digital Output 1 05 Circuit Failed Low
SID	260	3	Digital Output 1 04 Circuit Failed High
SID	260	4	Digital Output 1 04 Circuit Failed Low
SID	261	3	Function 20 Circuit Failed High
SID	261	4	Function 20 Circuit Failed Low
SID	261	5	Function 20 Circuit Failed Open
SID	261	3	Digital Output 3 07 Circuit Failed High
SID	261	4	Digital Output 3 07 Circuit Failed Low
SID	261	5	Digital Output 3 07 Open Circuit
SID	261	7	TOP2 Shift Failure
SID	262	3	EGR Water Cooling Regulator Circuit Failed High
SID	262	4	EGR Water Cooling Regulator Circuit Failed Low
SID	262	5	EGR Water Cooling Regulator Circuit Failed Open
SID	262	3	Digital Output 3 08 Circuit Failed High
SID	262	4	Digital Output 3 08 Circuit Failed Low
SID	262	5	Digital Output 3 08 Open Circuit
SID	263	3	High Side Digital Output # 1 Circuit Failed High
SID	263	3	High Side Digital Output # 2 Circuit Failed Open
SID	263	4	High Side Digital Output # 1 Circuit Failed Low
SID	263	3	Digital Output 4 10 Circuit Failed High
SID	264	4	High Side Digital Output # 2 Circuit Failed Low
SID	269	0	VNT Valve Position Feedback; Position Too Low (High Box)
SID	269	1	VNT Valve Position Feedback; Position Too High (Low Box)
SID	269	2	VNT Valve Position Feedback Failed
SID	269	3	Position Waste Gate (VNT) Failed High
SID	269	4	Position Waste Gate (VNT) Failed Low
SID	269	9	Turbo Actuator (CAN3) Communication Error
SID	272	2	Charge Air Cooler Outlet Temperature Sensor Plausibility Error
SID	272	3	Charge Air Cooler Outlet Temperature Circuit Failed High
SID	272	4	Charge Air Cooler Outlet Temperature Circuit Failed Low
SID	272	20	Charge Air Outlet Temperature Drift (Low box)
SID	272	21	Charge Air Outlet Temperature Drift (High box)

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PID/SID	J1587	FMI	
SID	273	2	Turbocharger/Supercharger Boost System Performance
SID	273	3	Turbocharger Compressor Outlet Pressure Circuit Failed High
SID	273	3	Charge Air Cooler Outlet Pressure Circuit Failed High
SID	273	4	Turbocharger Compressor Outlet Pressure Circuit Failed Low
SID	273	4	Charge Air Cooler Outlet Pressure Circuit Failed Low
SID	277	0	EGR Flow Target Error Diagnostic - High Flow
SID	277	1	EGR Flow Target Error Diagnostic - Low Flow
PID	314	2	Compressor Pressure Plausibility Fault (High Box)
SID	314	3	Turbocharger Compressor Inlet Pressure Circuit Failed High
SID	314	4	Turbocharger Compressor Inlet Pressure Circuit Failed Low
PID	314	5	Compressor Inlet Pressure Plausibility Fault (Delta)
SID	314	20	Compressor Inlet Pressure Plausibility Error; Pressure Too High (High Box)
SID	317	3	Injector Needle Control Valve Cylinder 1;2;3 Shorted to Battery
SID	317	3	Injector Needle Control Valve Cylinder 4;5;6 Shorted to Battery
SID	317	3	Switching Power Supply Voltage Failed High
SID	317	3	Injector Needle Control Valve Bank 3; Shorted to Battery
SID	317	3	Injector Spill Control Valve Cylinder 1;2;3 Shorted to Battery
SID	317	3	Injector Spill Control Valve Cylinder 4;5;6 Shorted to Battery
SID	317	3	Injector Spill Control Valve ("Amplifier") Bank 6; Shorted to Battery
SID	317	4	Injector Needle Control Valve Cylinder 1; 2; 3 Shorted to Ground
SID	317	4	Injector Needle Control Valve Cylinder 4; 5; 6 Shorted to Ground
SID	317	4	Switching Power Supply Voltage Failed Low
SID	317	4	Injector Needle Control Valve Bank 3; Shorted to Ground
SID	317	4	Injector Spill Control Valve Cylinder 1; 2; 3 Shorted to Ground
SID	317	4	Injector Spill Control Valve Cylinder 4; 5; 6 Shorted to Ground
SID	317	4	Injector Spill Control Valve ("Amplifier") Bank 6; Shorted to Ground
SID	318	2	DOC Inlet Temperature Sensor - Plausibility Error
PID	318	3	DOC Inlet Temperature Circuit Failed High
PID	318	4	DOC Inlet Temperature Circuit Failed Low
SID	318	10	DOC Inlet Temperature Sensor Stuck
SID	320	0	DPF Outlet Temperature High
SID	320	2	DPF Outlet Temperature Sensor - Plausibility Error
SID	320	3	DPF Outlet Temperature Circuit Failed High
SID	320	4	DPF Outlet Temperature Circuit Failed Low
SID	320	10	DPF Outlet Temperature Sensor Stuck
SID	320	14	Abnormal DPF Temperature Rise 2
SID	322	0	DOC Outlet Temperature Too High
SID	322	2	DOC Outlet Temperature Sensor - Plausibility Error
PID	322	3	DOC Outlet Temperature Circuit Failed High
PID	322	4	DOC Outlet Temperature Circuit Failed Low
SID	322	10	DOC Outlet Temperature Sensor Stuck
PID	322	14	Abnormal DOC Temperature Rise 2
SID	322	31	Abnormal DOC Temperature Rise 1
SID	323	31	Abnormal DPF Temperature Rise 1
SID	324	0	DPF Pressure Out of Range High
SID	324	1	Active Regen Temp Out of Range Low
SID	324	1	DPF Pressure Out of Range Low
SID	324	9	Abnormal Soot Rate
SID	324	16	DPF Pressure - Out of Range High
SID	332	1	Doser Fuel Supply Pressure Abnormal
SID	332	2	Doser Fuel Line Pressure Abnormal
SID	332	2	HC-Doser Fuel Pressure Not Plausible
SID	332	3	Doser Fuel Line Pressure Sensor Circuit Failed High
SID	332	4	Doser Fuel Line Pressure Sensor Circuit Failed Low
SID	332	14	Doser FLP Sensors Failed Self Test
SID	332	14	Doser Fuel Line Pressure Failed Self Test

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PID/SID	J1587	FMI	
SID	333	3	HC Doser Circuit Failed High
SID	333	4	HC Doser Circuit Failed Low
SID	333	5	HC Doser Circuit Failed Open
SID	333	14	Doser Metering and Safety Unit Valve Seals Check
SID	334	3	Fuel Cut Off Valve Circuit Failed High
SID	334	4	Fuel Cut Off Valve Circuit Failed Low
SID	334	5	Fuel Cut Off Valve Circuit Failed Open
PID	351	2	Coolant Temp/Compressor Inlet Temp Plausibility Error
PID	351	2	Turbocharger Compressor Inlet Temp. Sensor; General Temp. Plausibility Error
PID	351	3	Turbocharger Compressor Inlet Temperature Circuit Failed High
PID	351	4	Turbocharger Compressor Inlet Temperature Circuit Failed Low
PID	354	3	Relative Humidity Circuit Failed High
PID	354	4	Relative Humidity Circuit Failed Low
SID	362	6	Injector Cylinder #1 Spill Control Valve ("Amplifier"); Valve Shorted Circuit
SID	362	10	Injector Cylinder #1 Spill Control Valve ("Amplifier") Abnormal Rate of Change
SID	362	14	Injector Cylinder #1 Spill Control Valve Abnormal Operation
SID	363	6	Injector Cylinder #2 Spill Control Valve ("Amplifier"); Valve Shorted Circuit
SID	363	10	Injector Cylinder #2 Spill Control Valve ("Amplifier") Abnormal Rate of Change
SID	363	14	Injector Cylinder #2 Spill Control Valve Abnormal Operation
SID	364	6	Injector Cylinder #3 Spill Control Valve ("Amplifier"); Valve Shorted Circuit
SID	364	10	Injector Cylinder #3 Spill Control Valve ("Amplifier") Abnormal Rate of Change
SID	364	14	Injector Cylinder #3 Spill Control Valve Abnormal Operation
SID	365	6	Injector Cylinder #4 Spill Control Valve ("Amplifier"); Valve Shorted Circuit
SID	365	10	Injector Cylinder #4 Spill Control Valve ("Amplifier") Abnormal Rate of Change
SID	365	14	Injector Cylinder #4 Spill Control Valve Abnormal Operation
SID	366	6	Injector Cylinder #5 Spill Control Valve ("Amplifier"); Valve Shorted Circuit
SID	366	10	Injector Cylinder #5 Spill Control Valve ("Amplifier") Abnormal Rate of Change
SID	366	14	Injector Cylinder #5 Spill Control Valve Abnormal Operation
SID	367	6	Injector Cylinder #6 Spill Control Valve ("Amplifier"); Valve Shorted Circuit
SID	367	10	Injector Cylinder #6 Spill Control Valve ("Amplifier") Abnormal Rate of Change
SID	367	14	Injector Cylinder #6 Spill Control Valve Abnormal Operation
SID	370	2	DPF Inlet Pressure Sensor Drifted High In Range Fault (High Box)
PID	370	3	DPF Inlet Pressure Circuit Failed High
PID	370	4	DPF Inlet Pressure Circuit Failed Low
SID	370	10	DPF Inlet Pressure Sensor Stuck
SID	370	20	DPF Inlet Pressure Sensor Drifted High In Range Fault (Low Box)
SID	370	21	DPF Inlet Pressure Sensor Drifted Low In Range Fault (Low Box)
SID	370	21	DPF Inlet Pressure Sensor Drifted Low In Range Fault (High Box)
SID	371	0	DPF System Back Pressure Too High
SID	371	2	DPF Outlet Pressure Sensor Plausibility Error
SID	371	2	DPF Outlet Pressure Sensor Drifted Low In Range Fault (High Box)
SID	371	3	DPF Outlet Pressure Circuit Failed High
SID	371	4	DPF Outlet Pressure Circuit Failed Low
SID	371	10	DPF Outlet Pressure Sensor Stuck
SID	371	14	DPF Outlet Pressure Sensor Drifted High In Range Fault (High Box)
SID	371	20	DPF Outlet Pressure Sensor Drifted High In Range Fault (Low Box)
SID	371	21	DPF Outlet Pressure Sensor Drifted Low In Range Fault (Low Box)
PID	372	2	Remote Accelerator Pedal Supply Voltage Out of Range
PID	372	3	Remote Accelerator Pedal Circuit Failed High
PID	372	4	Remote Accelerator Pedal Circuit Failed Low
SID	382	0	Regen Temperature - Out of Range High
SID	382	1	Regen Temperature - Out of Range Low
PID	404	2	Turbocharger Compressor Outlet Temp. Sensor; General Temp. Plausibility Error
PID	404	3	Turbocharger Compressor Outlet Temperature Circuit Failed High
PID	404	4	Turbocharger Compressor Outlet Temperature Circuit Failed Low

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PID/SID	J1587	FMI	
PID	404	20	Turbocharger Out Temperature; Temperature Too High (Low Box)
PID	404	21	Turbocharger Out Temperature; Temperature Too Low (High Box)
PID	411	0	EGR Differential Pressure Failed (High Box)
PID	411	1	EGR Differential Pressure Failed (Low Box)
PID	411	3	EGR Delta Pressure Sensor Circuit High
PID	411	4	EGR Delta Pressure Sensor Circuit Low
PID	411	5	EGR Sampling Range Failed
PID	411	13	EGR Delta Pressure Sensor Out Of Calibration 1
PID	411	13	EGR Delta Pressure Sensor Out Of Calibration 2
PID	412	0	EGR Temperature Very High
PID	412	2	EGR Temperature Sensor; General Temp. Plausibility Error
PID	412	3	EGR Temperature Sensor Circuit Failed High
PID	412	4	EGR Temperature Sensor Circuit Failed Low
PID	412	16	EGR Temperature Sensor / Temperature Too High
PID	412	20	EGR Temperature Drift (High Box)
PID	412	21	EGR Temperature Drift (Low Box)