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Title: T24A-FTS (ENGINE CONTROL): SFI SYSTEM: DIAGNOSTIC TROUBLE CODE CHART; 2024 MY Land Cruiser [02/2024 -]		

DIAGNOSTIC TROUBLE CODE CHART

SFI System

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P001012	"A" Camshaft Position Actuator "A" Control Circuit/Open Bank 1 Circuit Short to Battery	Comes on	Engine	A	SAE: P2089	
P001014	A Camshaft Position Actuator Bank 1 Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P2088	
P001100	Camshaft Position "A" - Timing Over-Advanced or System Performance Bank 1	Comes on	Engine	B	SAE: P0011	
P001200	Camshaft Position "A" - Timing Over-Retarded Bank 1	Comes on	Engine	B	SAE: P0012	
P001312	"B" Camshaft Position Actuator "A" Control Circuit/Open Bank 1 Circuit Short to Battery	Comes on	Engine	A	SAE: P2091	
P001314	Camshaft Position "B" - Actuator Bank 1 Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P2090	
P001400	Camshaft Position "B" - Timing Over-Advanced or System Performance Bank 1	Comes on	Engine	B	SAE: P0014	
P001500	Camshaft Position "B" - Timing Over-Retarded Bank 1	Comes on	Engine	B	SAE: P0015	
P001600	Crankshaft Position - Camshaft Position Correlation Bank 1 Sensor A	Comes on	Engine	B	SAE: P0016	
P001700	Crankshaft Position - Camshaft Position Correlation Bank 1 Sensor B	Comes on	Engine	B	SAE: P0017	
P003012	HO2S Heater Control Bank 1 Sensor 1 Circuit Short to Battery	Comes on	Engine	A	SAE: P0032	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P003013	HO2S Heater Control Bank 1 Sensor 1 Circuit Open	Comes on	Engine	A	SAE: P0031	
P003612	HO2S Heater Control Circuit Bank 1 Sensor 2 Circuit Short to Battery	Comes on	Engine	A	SAE: P0038	
P003613	A/F (O2) Heater Control Circuit Bank 1 Sensor 2 Circuit Open	Comes on	Engine	A	SAE: P0037	
P006900	Manifold Absolute Pressure - Barometric Pressure Correlation	Comes on	Engine	B	SAE: P0069	
P007A11	Charge Air Cooler Temperature Sensor Bank 1 Circuit Short to Ground	-	Engine	A	SAE: P007C	
P007A15	Charge Air Cooler Temperature Sensor Bank 1 Circuit Short to Battery or Open	-	Engine	A	SAE P007D	
P008700	Fuel Rail / System Pressure - Too Low	Comes on	Engine	B	SAE: P0087	
P008800	Fuel Rail / System Pressure - Too High	Comes on	Engine	B	SAE: P0088	
P008A00	Low Pressure Fuel System Pressure - Too Low	-	Engine	B	SAE: P008A	
P008B00	Low Pressure Fuel System Pressure - Too High	-	Engine	B	SAE: P008B	
P00B111	Radiator Coolant Temperature Sensor Circuit Short to Ground	Comes on	Engine	A	SAE: P00B3	
P00B115	Radiator Coolant Temperature Sensor Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P00B4	
P00B162	Radiator Coolant Temperature Sensor Signal Compare Failure	Comes on	Engine	B	SAE: P00B2	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P00CF62	Barometric Pressure - Turbocharger / Supercharger Boost Sensor "A" Signal Compare Failure	Comes on	Engine	B	SAE: P00CF	WFO
P00D562	A/F (O2) Sensor Correlation Bank 1 Sensor 1/Bank 1 Sensor 2 Signal Compare Failure	Comes on	Engine	B	SAE: P00D5	WFO
P010012	Mass or Volume Air Flow Sensor "A" Circuit Short to Battery	Comes on	Engine	A	SAE: P0103	WFO
P010014	Mass or Volume Air Flow Sensor "A" Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P0102	WFO
P010064	Mass or Volume Air Flow Sensor "A" Signal Plausibility Failure	Comes on	Engine	B	SAE: P0101	WFO
P010511	Manifold Absolute Pressure / Barometric Pressure Sensor Circuit Short to Ground	Comes on	Engine	A	SAE: P0107	WFO
P010515	Manifold Absolute Pressure / Barometric Pressure Sensor Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0108	WFO
P01052A	Manifold Absolute Pressure / Barometric Pressure Sensor Signal Stuck in Range	Comes on	Engine	B	SAE: P0106	WFO
P011011	Intake Air Temperature Sensor 1 Bank 1 Circuit Short to Ground	Comes on	Engine	A	SAE: P0112	WFO
P011015	Intake Air Temperature Sensor 1 Bank 1 Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0113	WFO
P011511	Engine Coolant Temperature Sensor 1 Circuit Short to Ground	Comes on	Engine	A	SAE: P0117	WFO
P011515	Engine Coolant Temperature Sensor 1 Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0118	WFO
P011A62	Engine Coolant Temperature Sensor 1/2 Signal Compare Failure	Comes on	Engine	A	SAE: P011A	WFO

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P012011	Throttle / Pedal Position Sensor / Switch "A" Circuit Short to Ground	Comes on	Engine	A	SAE: P0122	WFO
P012015	Throttle / Pedal Position Sensor / Switch "A" Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0123	WFO
P01201C	Throttle / Pedal Position Sensor / Switch "A" Circuit Voltage Out of Range	Comes on	Engine	A	SAE: P0121	WFO
P012800	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)	Comes on	Engine	B	SAE: P0128	WFO
P012807	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature) Mechanical Failure	Comes on	Engine	B	SAE: P0128	WFO
P012F62	Engine Coolant Temperature/Engine Oil Temperature Signal Compare Failure	Comes on	Engine	B	SAE: P012F	WFO
P013616	A/F (O2) Sensor Circuit Bank 1 Sensor 2 Circuit Current (Voltage) Below Threshold	Comes on	Engine	B	SAE: P0136	WFO
P013A7C	A/F Sensor - Rich to Lean Bank 1 Sensor 2 Slow Response	Comes on	Engine	B	SAE: P013A	WFO
P014C00	O2 Sensor Slow Response - Rich to Lean Bank 1 Sensor 1	Comes on	Engine	B	SAE: P014C	WFO
P014D00	O2 Sensor Slow Response - Lean to Rich Bank 1 Sensor 1	Comes on	Engine	B	SAE: P014D	WFO
P015A00	O2 Sensor Delayed Response - Rich to Lean Bank 1 Sensor 1	Comes on	Engine	B	SAE: P015A	WFO
P015B00	O2 Sensor Delayed Response - Lean to Rich Bank 1 Sensor 1	Comes on	Engine	B	SAE: P015B	WFO
P016A00	Excessive Time to Enter Closed Loop Air/Fuel Ratio Control	Comes on	Engine	A	SAE: P016A	WFO

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P017100	System Too Lean Bank 1	Comes on	Engine	B	SAE: P0171	
P017200	System Too Rich Bank 1	Comes on	Engine	B	SAE: P0172	
P019011	Fuel Rail Pressure Sensor "A" Circuit Short to Ground	Comes on	Engine	A	SAE: P0192	
P019015	Fuel Rail Pressure Sensor "A" Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0193	
P01902A	Fuel Rail Pressure Sensor "A" Signal Stuck in Range	Comes on	Engine	B	SAE: P0191	
P019064	Fuel Rail Pressure Sensor "A" Signal Plausibility Failure	Comes on	Engine	B	SAE: P0191	
P019511	Engine Oil Temperature Sensor Circuit Short to Ground	Comes on	Engine	A	SAE: P0197	
P019515	Engine Oil Temperature Sensor Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0198	
P01E311	Engine Coolant Temperature Sensor 3 Circuit Short to Ground	Comes on	Engine	A	SAE: P01E5	
P01E315	Engine Coolant Temperature Sensor 3 Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P01E6	
P020113	Cylinder 1 Injector "A" Circuit Open	Comes on	Engine	A	SAE: P0201	
P020213	Cylinder 2 Injector "A" Circuit Open	Comes on	Engine	A	SAE: P0202	
P020313	Cylinder 3 Injector "A" Circuit Open	Comes on	Engine	A	SAE: P0203	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P020413	Cylinder 4 Injector "A" Circuit Open	Comes on	Engine	A	SAE: P0204	
P022011	Throttle/Pedal Position Sensor/Switch "B" Circuit Short to Ground	Comes on	Engine	A	SAE: P0222	
P022015	Throttle/Pedal Position Sensor/Switch "B" Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0223	
P023400	Turbocharger/Supercharger "A" Overboost Condition	-	Engine	B	SAE: P0234	
P023511	Turbocharger/Supercharger Boost Sensor "A" Circuit Short to Ground	Comes on	Engine	A	SAE: P0237	
P023515	Turbocharger/Supercharger Boost Sensor "A" Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0238	
P02351C	Turbocharger/Supercharger Boost Sensor "A" Circuit Voltage Out of Range	-	Engine	B	SAE: P0236	
P024312	Turbocharger/Supercharger Wastegate Actuator "A" Circuit Short to Battery	Comes on	Engine	A	SAE: P0246	
P024314	Turbocharger/Supercharger Wastegate Actuator "A" Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P0245	
P02EE00	Cylinder 1 Injector Circuit Range/Performance	Comes on	Engine	B	SAE: P02EE	
P02EF00	Cylinder 2 Injector Circuit Range/Performance	Comes on	Engine	B	SAE: P02EF	
P02F000	Cylinder 3 Injector Circuit Range/Performance	Comes on	Engine	B	SAE: P02F0	
P02F100	Cylinder 4 Injector Circuit Range/Performance	Comes on	Engine	B	SAE: P02F1	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P030000	Random/Multiple Cylinder Misfire Detected	Comes on/Blinks* *: The MIL flashes when a catalyst-damaging misfire is detected.	Engine	B	SAE: P0300	INFO
P030027	Random/Multiple Cylinder Misfire Detected (Emission) Signal Rate of Change Above Threshold	Comes on	Engine	B	SAE: -	INFO
P030085	Random / Multiple Cylinder Misfire Detected (Over Temperature) Signal Above Allowable Range	Comes on/Blinks* *: The MIL flashes when a catalyst-damaging misfire is detected.	Engine	B	SAE: -	INFO
P030100	Cylinder 1 Misfire Detected	Comes on/Blinks* *: The MIL flashes when a catalyst-damaging misfire is detected.	Engine	B	SAE: P0301	INFO
P030200	Cylinder 2 Misfire Detected	Comes on/Blinks* *: The MIL flashes when a catalyst-damaging misfire is detected.	Engine	B	SAE: P0302	INFO
P030300	Cylinder 3 Misfire Detected	Comes on/Blinks* *: The MIL flashes when a catalyst-damaging misfire is detected.	Engine	B	SAE: P0303	INFO
P030400	Cylinder 4 Misfire Detected	Comes on/Blinks* *: The MIL flashes when a catalyst-damaging misfire is detected.	Engine	B	SAE: P0304	INFO
P032511	Knock Sensor 1 Bank 1 or Single Sensor Circuit Short to Ground	Comes on	Engine	A	SAE: P0327	INFO

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P032515	Knock Sensor 1 Bank 1 or Single Sensor Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0328	
P033511	Crankshaft Position Sensor "A" Circuit Short to Ground	Comes on	Engine	A	SAE: P0337	
P033515	Crankshaft Position Sensor "A" Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0338	
P03352A	Crankshaft Position Sensor "A" Signal Stuck in Range	Comes on	Engine	A	SAE: P0335	
P033531	Crankshaft Position Sensor "A" No Signal	Comes on	Engine	A	SAE: P0335	
P034011	Camshaft Position Sensor "A" Bank 1 or Single Sensor Circuit Short to Ground	Comes on	Engine	A	SAE: P0342	
P034015	Camshaft Position Sensor "A" Bank 1 or Single Sensor Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0343	
P034031	Camshaft Position Sensor "A" Bank 1 or Single Sensor No Signal	Comes on	Engine	A	SAE: P0340	
P036511	Camshaft Position Sensor "B" Bank 1 Circuit Short to Ground	Comes on	Engine	A	SAE: P0367	
P036515	Camshaft Position Sensor "B" Bank 1 Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0368	
P03652A	Camshaft Position Sensor "B" Bank 1 Signal Stuck in Range	Comes on	Engine	A	SAE: P0365	
P036531	Camshaft Position Sensor "B" Bank 1 No Signal	Comes on	Engine	A	SAE: P0365	
P042000	Catalyst System Efficiency Below Threshold Bank 1	Comes on	Engine	B	SAE: P0420	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P043E00	Evaporative Emission System Leak Detection Reference Orifice Low Flow	Comes on	Engine	A	SAE: P043E	
P043F00	Evaporative Emission System Leak Detection Reference Orifice High Flow	Comes on	Engine	A	SAE: P043F	
P04419C	Evaporative Emission System Incorrect Purge Flow Low/Insufficient Flow	Comes on	Engine	B	SAE: P0441	
P044672	EVAP System Vent Valve Stuck Open Actuator Stuck Open	Comes on	Engine	A	SAE: P2421	
P044673	EVAP System Vent Valve Stuck Closed Actuator Stuck Closed	Comes on	Engine	A	SAE: P2422	
P045011	Evaporative Emission System Pressure Sensor/Switch Circuit Short to Ground	Comes on	Engine	A	SAE: P0452	
P045015	Evaporative Emission System Pressure Sensor/Switch Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P0453	
P04502F	Evaporative Emission System Pressure Sensor/Switch Signal Erratic	Comes on	Engine	A	SAE: P0451	
P04F09C	Evaporative Emission System High Load Purge Line "A" Performance Low/Insufficient Flow	Comes on	Engine	B	SAE: P04F0	
P050031	Vehicle Speed Sensor "A" No Signal	Comes on	Engine	A	SAE: P0500	
P05042B	Brake Switch "A"/"B" Signal Cross Coupled	-	Engine	A	SAE: P0504	
P050500	Idle Control System	Comes on	Engine	B	SAE: P0505	
P050A00	Cold Start Idle Control System Performance	Comes on	Engine	B	SAE: P050A	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P050B00	Cold Start Ignition Timing Performance	Comes on	Engine	B	SAE: P050B	
P051A11	Crankcase Pressure Sensor "A" Circuit Low Circuit Short to Ground	Comes on	Engine	A	SAE: P051C	
P051A15	Crankcase Pressure Sensor "A" Circuit High Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P051D	
P052012	Engine Oil Pressure Sensor/Switch "A" Circuit Short to Battery	Comes on	Engine	A	SAE: P0523	
P052014	Engine Oil Pressure Sensor/Switch "A" Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P0522	
P052024	Engine Oil Pressure Sensor/Switch "A" Signal Stuck High	Comes on	Engine	B	SAE: P0521	
P05202A	Engine Oil Pressure Sensor/Switch "A" Signal Stuck in Range	Comes on	Engine	B	SAE: P0521	
P052400	Engine Oil Pressure Too Low	Comes on	Engine	A	SAE: P0524	
P056014	System Voltage Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P0562	
P059A71	Active Grille Air Shutter "A" Actuator Stuck	Comes on	Engine	A	SAE: P059F	
P059A79	Active Grille Air Shutter "A" Mechanical Linkage Failure	Comes on	Engine	A	SAE: P059F	
P05A212	Active Grille Air Shutter "A" Circuit Short to Battery	Comes on	Engine	A	SAE: P05A4	
P05CE00	Cold Start "B" Camshaft Position Timing Performance Bank 1	Comes on	Engine	B	SAE: P05CE	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P060444	Internal Control Module Random Access Memory (RAM) Error Data Memory Failure	Comes on	Engine	A	SAE: P0604	
P060609	Control Module Processor (Brake Override System Output Signal) Component Failure	Comes on	Engine	A	SAE: P0606	
P060647	Control Module Processor Watchdog/Safety MCU Failure	Comes on	Engine	A	SAE: P0606	
P060694	Control Module Processor Unexpected Operation	Comes on	Engine	A	SAE: P0606	
P060747	Control Module Performance Bank 1 Watchdog/Safety MCU Failure	Comes on	Engine	A	SAE: P0607	
P060787	Control Module Performance Bank 1 Missing Message	Comes on	Engine	A	SAE: P0607	
P060D49	Internal Control Module Accelerator Pedal Position Performance Internal Electronic Failure	Comes on	Engine	A	SAE: P060D	
P060E49	Internal Control Module Throttle Position Performance Internal Electronic Failure	Comes on	Engine	A	SAE: P060E	
P061349	TCM Processor Internal Electronic Failure	Comes on	Engine	A	SAE: P0613	
P061512	Starter Relay Circuit Short to Battery	Comes on	Engine	A	SAE: P0617	
P062712	Fuel Pump "A" Control Circuit Short to Battery	Comes on	Engine	A	SAE: P0629	
P062714	Fuel Pump "A" Control Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P0628	
P062D13	Fuel Injector Driver Circuit Performance Bank 1 Circuit Open	Comes on	Engine	A	SAE: P062D	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P062F44	Internal Control Module EEPROM Data Memory Failure	Comes on	Engine	A	SAE: P062F	
P063051	VIN Not Programmed	Comes on	Engine	B	SAE: P0630	
P064A49	Fuel Pump Control Module Internal Electronic Failure	Comes on	Engine	B	SAE: P064A	
P065714	Actuator Supply Voltage "A" Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P0658	
P06579E	Actuator Supply Voltage "A" Stuck On	Comes on	Engine	A	SAE: P0657	
P06AB11	Control Module Internal Temperature Sensor "B" Circuit Short to Ground	Comes on	Engine	A	SAE: P06AD	
P06AB15	Control Module Internal Temperature Sensor "B" Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P06AE	
P070312	Brake Switch "B" Circuit Short to Battery	-	Engine	A	SAE: P0724	
P070513	Transmission Range Sensor "A" Circuit Open	Comes on	Engine	B	SAE: P0705	
P070562	Transmission Range Sensor "A" Signal Compare Failure	Comes on	Engine	B	SAE: P0705	
P075A71	Shift Solenoid "G" Performance/Stuck Off Actuator Stuck	Comes on	Engine	B	SAE: P075B	
P09A011	Shift Solenoid "G" Control Circuit Low Circuit Short to Ground	Comes on	Engine	A	SAE: P099B	
P09A015	Shift Solenoid "G" Control Circuit High Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P099C	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P0A0A13	High Voltage System Interlock Circuit "A" High Circuit Open	-	Engine	B	SAE: P0A0D	INFO
P0A0A92	High Voltage System Interlock Circuit "A" High Performance or Incorrect Operation	-	Engine	B	SAE: P0A0D	INFO
P0A1412	Engine Mount "A" Control Circuit High Circuit Short to Battery	-	Engine	A	SAE: P0A16	INFO
P0A1414	Engine Mount "A" Control Circuit Low Circuit Short to Ground or Open	-	Engine	A	SAE: P0A15	INFO
P0A1B94	Drive Motor "A" Control Module Performance Unexpected Operation	Comes on	Engine	A	SAE: P0A1B	INFO
P101A9E	A/F Sensor Heater Performance Bank 1 Sensor 1 Stuck On	Comes on	Engine	A	SAE: P101D	INFO
P102A9E	O2 Sensor Heater Performance Bank 1 Sensor 2 Stuck On	Comes on	Engine	A	SAE: P102D	INFO
P106A62	Evaporative Emission System Pressure / Intake Air Pressure Signal Compare Failure	Comes on	Engine	B	SAE: P106A	INFO
P106C62	Evaporative Emission System Pressure/Barometric Pressure Signal Compare Failure	Comes on	Engine	B	SAE: P106C	INFO
P106D62	Evaporative Emission System Pressure Sensor - Turbocharger/Supercharger Boost Sensor Signal Compare Failure	Comes on	Engine	B	SAE: P106D	INFO
P107A11	Fuel Rail Pressure Sensor (Low) Circuit Short to Ground	Comes on	Engine	A	SAE: P107C	INFO
P107A15	Fuel Rail Pressure Sensor (Low) Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P107D	INFO
P107A2A	Fuel Rail Pressure Sensor (Low) Signal Stuck in Range	Comes on	Engine	B	SAE: P107B	INFO

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P107A64	Fuel Rail Pressure Sensor (Low) Signal Plausibility Failure	Comes on	Engine	B	SAE: P107B	INFO
P109E62	EVAP System Pressure Sensor "A"/Crankcase Pressure Sensor "A" Signal Compare Failure	Comes on	Engine	B	SAE: P109E	INFO
P10D311	Charge Air Cooler Temperature Sensor 2 Bank 1 Circuit Short to Ground	Comes on	Engine	A	SAE: P10D5	INFO
P10D315	Charge Air Cooler Temperature Sensor 2 Bank 1 Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P10D6	INFO
P10D31C	Charge Air Cooler Temperature Sensor 2 Bank 1 Circuit Voltage Out of Range	Comes on	Engine	B	SAE: P10D4	INFO
P111A62	Engine Coolant Temperature Sensor 1/3 Signal Compare Failure	Comes on	Engine	A	SAE: P111A	INFO
P111C62	Control Module Internal Temperature Sensor/Intake Air Temperature Sensor Signal Compare Failure	Comes on	Engine	B	SAE: P111C	INFO
P117000	Fuel Performance/Port Injector	-	Engine	B	SAE: P1170	INFO
P117B00	Fuel Performance/Direct Injector	-	Engine	B	SAE: P117B	INFO
P11EA00	Bank 1 Air-Fuel Ratio Imbalance (Port)	Comes on	Engine	B	SAE: P11EA	INFO
P11EC00	Cylinder #1 Air-Fuel Ratio Imbalance (Port)	Comes on	Engine	B	SAE: P11EC	INFO
P11ED00	Cylinder #2 Air-Fuel Ratio Imbalance (Port)	Comes on	Engine	B	SAE: P11ED	INFO
P11EE00	Cylinder #3 Air-Fuel Ratio Imbalance (Port)	Comes on	Engine	B	SAE: P11EE	INFO

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P11EF00	Cylinder #4 Air-Fuel Ratio Imbalance (Port)	Comes on	Engine	B	SAE: P11EF	
P123513	High Pressure Fuel Pump Circuit Open	Comes on	Engine	A	SAE: P1235	
P128300	Cold Start Fuel Injection Control Performance #1	Comes on	Engine	B	SAE: P1283	
P128400	Cold Start Fuel Injection Control Performance #2	Comes on	Engine	B	SAE: P1284	
P128500	Cold Start Fuel Injection Control Performance #3	Comes on	Engine	B	SAE: P1285	
P128600	Cold Start Fuel Injection Control Performance #4	Comes on	Engine	B	SAE: P1286	
P12D013	Fuel Pump Control (All Phase) Circuit Open	Comes on	Engine	A	SAE: P12D0	
P12D113	Fuel Pump Control (U Phase) Circuit Open	Comes on	Engine	A	SAE: P12D1	
P12D213	Fuel Pump Control (V Phase) Circuit Open	Comes on	Engine	A	SAE: P12D2	
P12D313	Fuel Pump Control (W Phase) Circuit Open	Comes on	Engine	A	SAE: P12D3	
P12D41D	Fuel Pump Control Circuit Current Out of Range	Comes on	Engine	A	SAE: P12D4	
P12D501	Fuel Pump Control General Electrical Failure	Comes on	Engine	A	SAE: P12D5	
P137800	Pre-ignition Detected	-	Engine	B	SAE: P1378	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P142000	Evaporative Emission Canister (Small Leak)	Comes on	Engine	A	SAE: P1420	
P142100	Evaporative Emission Canister (Gross Leak)	Comes on	Engine	A	SAE: P1421	
P142200	Evaporative Emission Fuel Tank (Small Leak)	Comes on	Engine	A	SAE: P1422	
P142300	Evaporative Emission Fuel Tank (Gross Leak)	Comes on	Engine	A	SAE: P1423	
P145011	Fuel Tank Pressure Sensor Circuit Short to Ground	Comes on	Engine	A	SAE: P1452	
P145015	Fuel Tank Pressure Sensor Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P1453	
P14502A	Fuel Tank Pressure Sensor Signal Stuck in Range	Comes on	Engine	A	SAE: P1451	
P14502F	Fuel Tank Pressure Sensor Signal Erratic	Comes on	Engine	A	SAE: P1451	
P148D7E	Purge One Way Valve Stuck Open	Comes on	Engine	A	SAE: P148D	
P14CE12	EVAP System Switching Valve Control Circuit "B" High Circuit Short to Battery	Comes on	Engine	A	SAE: P14D1	
P14CE14	EVAP System Switching Valve Control Circuit "B" Low Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P14D0	
P14D211	Evaporative Emission System Pressure Sensor/Switch "D" Circuit Short to Ground	Comes on	Engine	A	SAE: P14D4	
P14D215	Evaporative Emission System Pressure Sensor/Switch "D" Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P14D5	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P14D21F	Evaporative Emission System Pressure Sensor/Switch "D" Circuit Intermittent	Comes on	Engine	B	SAE: P14D6	
P14D762	EVAP System Pressure Sensor/Switch "A"/"D" Signal Compare Failure	Comes on	Engine	B	SAE: P14D7	
P15AD87	Active Grille Air Shutter "A" Missing Message	Comes on	Engine	A	SAE: P15AD	
P161009	Control Module Processor (Brake Override System Input Signal) Component Failure	-	Engine	A	SAE: P1610	
P16B09F	Actuator Cut Circuit Stuck Off	Comes on	Engine	A	SAE: P16B0	
P16B319	Multi Flow Control Valve Motor Circuit Current Above Threshold	Comes on	Engine	A	SAE: P16B2	
P16B479	Multi Flow Control Valve Stopper Mechanical Linkage Failure	Comes on	Engine	B	SAE: P16B4	
P16B511	Multi Flow Control Valve Sensor Circuit Short to Ground	Comes on	Engine	A	SAE: P16B6	
P16B515	Multi Flow Control Valve Sensor Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P16B7	
P16B871	Multi Flow Control Valve Actuator Stuck	Comes on	Engine	B	SAE: P16B8	
P1C6A9F	Drive Motor "A" Inverter Shutdown Stuck Off	Comes on	Engine	A	SAE: P1C6A	
P210018	Throttle Actuator "A" Control Motor Circuit Current Below Threshold	Comes on	Engine	A	SAE: P2102	
P210019	Throttle Actuator "A" Control Motor Circuit Current Above Threshold	Comes on	Engine	A	SAE: P2103	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P210900	Throttle/Pedal Position Sensor "A" Minimum Stop Performance	-	Engine	B	SAE: P2109	
P211172	Throttle Actuator "A" Control System Actuator Stuck Open	Comes on	Engine	B	SAE: P2111	
P211173	Throttle Actuator "A" Control System Actuator Stuck Closed	Comes on	Engine	B	SAE: P2112	
P211900	Throttle Actuator "A" Control Throttle Body Range/Performance	Comes on	Engine	B	SAE: P2119	
P211904	Throttle Actuator "A" Control Throttle Body Range/Performance System Internal Failure	Comes on	Engine	B	SAE: P2119	
P211977	Throttle Actuator "A" Control Throttle Body Range/Performance Commanded Position Not Reachable	Comes on	Engine	B	SAE: P2119	
P21199B	Throttle Actuator "A" Control Throttle Body High/Excessive Flow	Comes on	Engine	B	SAE: P2119	
P212012	Throttle/Pedal Position Sensor/Switch "D" Circuit Short to Battery	Comes on	Engine	A	SAE: P2123	
P212014	Throttle/Pedal Position Sensor/Switch "D" Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P2122	
P21201C	Throttle/Pedal Position Sensor/Switch "D" Circuit Voltage Out of Range	Comes on	Engine	A	SAE: P2121	
P21201F	Throttle/Pedal Position Sensor/Switch "D" Circuit Intermittent	Comes on	Engine	A	SAE: P2120	
P212099	Throttle/Pedal Position Sensor/Switch "D" Exceeded Learning Limit	Comes on	Engine	A	SAE: P2121	
P212512	Throttle/Pedal Position Sensor/Switch "E" Circuit Short to Battery	Comes on	Engine	A	SAE: P2128	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P212514	Throttle/Pedal Position Sensor/Switch "E" Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P2127	INFO
P21251F	Throttle/Pedal Position Sensor/Switch "E" Circuit Intermittent	Comes on	Engine	A	SAE: P2125	INFO
P21352B	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation Signal Cross Coupled	Comes on	Engine	A	SAE: P2135	INFO
P21382B	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation Signal Cross Coupled	Comes on	Engine	A	SAE: P2138	INFO
P218211	Engine Coolant Temperature Sensor 2 Circuit Short to Ground	Comes on	Engine	A	SAE: P2184	INFO
P218215	Engine Coolant Temperature Sensor 2 Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P2185	INFO
P21822A	Engine Coolant Temperature Sensor 2 Signal Stuck In Range	Comes on	Engine	B	SAE: P2183	INFO
P219519	A/F (O2) Sensor Signal Biased/Stuck Lean Bank 1 Sensor 1 Circuit Current Above Threshold	Comes on	Engine	B	SAE: P2195	INFO
P219524	A/F (O2) Sensor Signal Biased/Stuck Lean Bank 1 Sensor 1 Signal Stuck High	Comes on	Engine	B	SAE: P2195	INFO
P219618	A/F (O2) Sensor Signal Biased/Stuck Rich Bank 1 Sensor 1 Circuit Current Below Threshold	Comes on	Engine	B	SAE: P2196	INFO
P219623	A/F (O2) Sensor Signal Biased/Stuck Rich Bank 1 Sensor 1 Signal Stuck Low	Comes on	Engine	B	SAE: P2196	INFO
P219A00	Bank 1 Air-Fuel Ratio Imbalance	Comes on	Engine	B	SAE: P219A	INFO

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P219C00	Cylinder 1 Air-Fuel Ratio Imbalance	Comes on	Engine	B	SAE: P219C	WFO
P219D00	Cylinder 2 Air-Fuel Ratio Imbalance	Comes on	Engine	B	SAE: P219D	WFO
P219E00	Cylinder 3 Air-Fuel Ratio Imbalance	Comes on	Engine	B	SAE: P219E	WFO
P219F00	Cylinder 4 Air-Fuel Ratio Imbalance	Comes on	Engine	B	SAE: P219F	WFO
P21CF13	Cylinder 1 Injector "B" Circuit Open	Comes on	Engine	A	SAE: P21CF	WFO
P21D013	Cylinder 2 Injector "B" Circuit Open	Comes on	Engine	A	SAE: P21D0	WFO
P21D113	Cylinder 3 Injector "B" Circuit Open	Comes on	Engine	A	SAE: P21D1	WFO
P21D213	Cylinder 4 Injector "B" Circuit Open	Comes on	Engine	A	SAE: P21D2	WFO
P222611	Barometric Pressure Sensor "A" Circuit Short to Ground	Comes on	Engine	A	SAE: P2228	WFO
P222615	Barometric Pressure Sensor "A" Circuit Short to Battery or Open	Comes on	Engine	A	SAE: P2229	WFO
P223711	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 1 Circuit Short to Ground	Comes on	Engine	A	SAE: P2238	WFO
P223712	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 1 Circuit Short to Battery	Comes on	Engine	A	SAE: P2239	WFO
P223713	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 1 Circuit Open	Comes on	Engine	A	SAE: P2237	WFO

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P223716	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 1 Circuit Voltage Below Threshold	Comes on	Engine	A	SAE: P2238	
P223717	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 1 Circuit Voltage Above Threshold	Comes on	Engine	A	SAE: P2239	
P22371B	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 1 Circuit Resistance Above Threshold	Comes on	Engine	A	SAE: P2238	
P225111	O2 Sensor Negative Current Control Bank 1 Sensor 1 Circuit Short to Ground	Comes on	Engine	A	SAE: P2252	
P225112	O2 Sensor Negative Current Control Bank 1 Sensor 1 Circuit Short to Battery	Comes on	Engine	A	SAE: P2253	
P227019	A/F (O2) Sensor Signal Biased/Stuck Lean Bank 1 Sensor 2 Circuit Current Above Threshold	Comes on	Engine	B	SAE: P2270	
P227118	A/F (O2) Sensor Signal Biased/Stuck Rich Bank 1 Sensor 2 Circuit Current Below Threshold	Comes on	Engine	B	SAE: P2271	
P22AB11	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 2 Circuit Short to Ground	Comes on	Engine	A	SAE: P22AC	
P22AB12	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 2 Circuit Short to Battery	Comes on	Engine	A	SAE: P22AD	
P22AB13	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 2 Circuit Open	Comes on	Engine	A	SAE: P22AB	
P22AB16	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 2 Circuit Voltage Below Threshold	Comes on	Engine	A	SAE: P22AC	
P22AB17	A/F (O2) Sensor Positive Current Control Bank 1 Sensor 2 Circuit Voltage Above Threshold	Comes on	Engine	A	SAE: P22AD	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P22B211	A/F (O2) Sensor Negative Current Control Bank 1 Sensor 2 Circuit Short to Ground	Comes on	Engine	A	SAE: P22B3	
P22B212	A/F (O2) Sensor Negative Current Control Bank 1 Sensor 2 Circuit Short to Battery	Comes on	Engine	A	SAE: P22B4	
P24007E	Evaporative Emission System Leak Detection Pump Control Circuit Actuator Stuck On	Comes on	Engine	A	SAE: P2402	
P24007F	Evaporative Emission System Leak Detection Pump Control Circuit Actuator Stuck Off	Comes on	Engine	A	SAE: P2401	
P241812	EVAP System Switching Valve Control Circuit High Circuit Short to Battery	Comes on	Engine	A	SAE: P2420	
P241814	EVAP System Switching Valve Control Circuit Low Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P2419	
P24507E	Evaporative Emission System Switching Valve Actuator Stuck On	Comes on	Engine	A	SAE: P2450	
P24517F	Evaporative Emission System Switching Valve Actuator Stuck Off	Comes on	Engine	A	SAE: P2451	
P253012	Ignition Switch Run Position Circuit High Circuit Short to Battery	-	Engine	A	SAE: P2532	
P253314	Ignition Switch On/Start Position Circuit Low Circuit Short to Ground or Open	-	Engine	A	SAE: P2534	
P25B372	Turbocharger/Supercharger Wastegate "A" Actuator Stuck Open	Comes on	Engine	B	SAE: P25B3	
P25B473	Turbocharger/Supercharger Wastegate "A" Actuator Stuck Closed	Comes on	Engine	B	SAE: P25B4	
P261029	ECM/PCM Engine Off Timer Performance Signal Invalid	Comes on	Engine	A	SAE: P2610	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P261093	ECM/PCM Engine Off Timer Performance No Operation	Comes on	Engine	A	SAE: P2610	
P273171	Pressure Control Solenoid "F" Performance/Stuck Off Actuator Stuck	Comes on	Engine	B	SAE: P2732	
P273612	Pressure Control Solenoid "F" Control Circuit High Circuit Short to Battery	Comes on	Engine	A	SAE: P2739	
P273614	Pressure Control Solenoid "F" Control Circuit Low Circuit Short to Ground or Open	Comes on	Engine	A	SAE: P2738	
P2C9000	Crankcase Ventilation System - Hose "A" Disconnected	Comes on	Engine	B	SAE: P2C90	
P319100	Engine does not Start	Comes on	Engine	B	SAE: P3191	
P319300	Fuel Run Out	-	Engine	A	SAE: P3193	
P321E9F	Inverter Shutdown Signal Stuck Off	-	Engine	B	SAE: P321E	
P33BF9F	Inverter Shutdown Signal (MG Side) Stuck Off	-	Engine	A	SAE: P33BF	
U010187	Lost Communication with TCM Missing Message	Comes on	Engine	B	SAE: U0101	
U011087	Lost Communication with Drive Motor Control Module "A" Missing Message	Comes on	Engine	B	SAE: U0110	
U012987	Lost Communication with Brake System Control Module Missing Message	Comes on	Engine	B	SAE: U0129	
U013787	Lost Communication With Trailer Brake Control Module Missing Message	-	Engine	A	SAE: U0137	

DTC NO.	DETECTION ITEM	MIL	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
U029387	Lost Communication with Hybrid Powertrain Control Module Missing Message	Comes on	Engine	B	SAE: U0293	
U110787	Lost Communication with Power Management Module Missing Message	-	Engine	B	SAE: U1107	
U115087	Lost Communication with Hybrid Powertrain Control Module (ch2) Missing Message	Comes on	Engine	A	SAE: U1150	
U115287	Lost Communication with Hybrid Powertrain Control Module (ch4) Missing Message	Comes on	Engine	A	SAE: U1152	
U115687	Lost Communication with TCM (ch2) Missing Message	Comes on	Engine	A	SAE: U1156	
U115787	Lost Communication with Drive Motor Control Module "A" (ch3) Missing Message	Comes on	Engine	A	SAE: U1157	
U115C87	Lost Communication with ECM/PCM "A" (ch5) Missing Message	-	Engine	B	SAE: U115C	
U117087	Lost Communication with Brake System Control Module (Secondary CAN Line) Missing Message	Comes on	Engine	A	SAE: U1170	

