

Last Modified: 7-2-2012	6.4 S	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000PDF0FSX
Title: FA20 ENGINE CONTROL: SFI SYSTEM: DIAGNOSTIC TROUBLE CODE CHART (2013 FR-S)		

DIAGNOSTIC TROUBLE CODE CHART

HINT:

Factors such as instrument type may cause readings to differ slightly from stated values. If any DTCs are output during a check mode DTC check, check the circuit for the DTCs listed in the table below. For details of each DTC, refer to the "See page" below.

*: The MIL flashes when a catalyst damaging misfire is detected.

DTC CODE	DETECTION ITEM	MIL	MEMORY	SEE PAGE
P000A	Camshaft Position "A" - Timing Slow Response Bank 1	Comes on	DTC stored	INFO
P000B	Camshaft Position "B" - Timing Slow Response Bank 1	Comes on	DTC stored	INFO
P000C	Camshaft Position "A" - Timing Slow Response Bank 2	Comes on	DTC stored	INFO
P000D	Camshaft Position "B" - Timing Slow Response Bank 2	Comes on	DTC stored	INFO
P0010	Camshaft Position "A" Actuator Circuit (Bank 1)	Comes on	DTC stored	INFO
P0011	Camshaft Position "A" - Timing Over-Advanced or System Performance (Bank 1)	Comes on	DTC stored	INFO
P0013	Camshaft Position "B" Actuator Circuit / Open (Bank 1)	Comes on	DTC stored	INFO
P0014	Camshaft Position "B" - Timing Over-Advanced or System Performance (Bank 1)	Comes on	DTC stored	INFO
P0016	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	Comes on	DTC stored	INFO
P0017	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor B)	Comes on	DTC stored	INFO
P0018	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	Comes on	DTC stored	INFO
P0019	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor B)	Comes on	DTC stored	INFO
P0020	Camshaft Position "A" Actuator Circuit (Bank 2)	Comes on	DTC stored	INFO
P0021	Camshaft Position "A" - Timing Over-Advanced or System Performance (Bank 2)	Comes on	DTC stored	INFO

DTC CODE	DETECTION ITEM	MIL	MEMORY	SEE PAGE
P0023	Camshaft Position "B" Actuator Circuit / Open (Bank 2)	Comes on	DTC stored	INFO
P0024	Camshaft Position "B" - Timing Over-Advanced or System Performance (Bank 2)	Comes on	DTC stored	INFO
P0030	A/F Sensor Heater Control Circuit (Bank 1 Sensor 1)	Comes on	DTC stored	INFO
P0031	Oxygen (A/F) Sensor Heater Control Circuit Low (Bank 1 Sensor 1)	Comes on	DTC stored	INFO
P0032	Oxygen (A/F) Sensor Heater Control Circuit High (Bank 1 Sensor 1)	Comes on	DTC stored	INFO
P0037	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 2)	Comes on	DTC stored	INFO
P0038	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 2)	Comes on	DTC stored	INFO
P0068	MAP / MAF - Throttle Position Correlation	Comes on	DTC stored	INFO
P0087	Fuel Rail / System Pressure - Too Low	Comes on	DTC stored	INFO
P0088	Fuel Rail / System Pressure - Too High	Comes on	DTC stored	INFO
P0101	Mass Air Flow Circuit Range / Performance Problem	Comes on	DTC stored	INFO
P0102	Mass or Volume Air Flow Circuit Low Input	Comes on	DTC stored	INFO
P0103	Mass or Volume Air Flow Circuit High Input	Comes on	DTC stored	INFO
P0107	Manifold Absolute Pressure / Barometric Pressure Circuit Low Input	Comes on	DTC stored	INFO
P0108	Manifold Absolute Pressure / Barometric Pressure Circuit High Input	Comes on	DTC stored	INFO
P0111	Intake Air Temperature Sensor Gradient Too High	Comes on	DTC stored	INFO
P0112	Intake Air Temperature Circuit Low Input	Comes on	DTC stored	INFO
P0113	Intake Air Temperature Circuit High Input	Comes on	DTC stored	INFO
P0116	Engine Coolant Temperature Circuit Range / Performance Problem	Comes on	DTC stored	INFO
P0117	Engine Coolant Temperature Circuit Low Input	Comes on	DTC stored	INFO

DTC CODE	DETECTION ITEM	MIL	MEMORY	SEE PAGE
P0118	Engine Coolant Temperature Circuit High Input	Comes on	DTC stored	INFO
P0122	Throttle Position Sensor Circuit Low Input	Comes on	DTC stored	INFO
P0123	Throttle / Pedal Position Sensor / Switch "A" Circuit High Input	Comes on	DTC stored	INFO
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control	Comes on	DTC stored	INFO
P0128	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)	Comes on	DTC stored	INFO
P0131	Oxygen Sensor Circuit Low Voltage (Bank 1 Sensor 1)	Comes on	DTC stored	INFO
P0132	Oxygen Sensor Circuit High Voltage Bank1 Sensor1	Comes on	DTC stored	INFO
P0134	Oxygen Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	Comes on	DTC stored	INFO
P0137	Oxygen Sensor Circuit Low Voltage (Bank 1 Sensor 2)	Comes on	DTC stored	INFO
P0138	Oxygen Sensor Circuit High Voltage (Bank 1 Sensor 2)	Comes on	DTC stored	INFO
P013A	Oxygen Sensor Slow Response - Rich to Lean Bank 1 Sensor 2	Comes on	DTC stored	INFO
P013B	O2 Sensor Slow Response - Lean to Rich (Bank 1 Sensor 2)	Comes on	DTC stored	INFO
P013E	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2)	Comes on	DTC stored	INFO
P013F	O2 Sensor Delayed Response - Lean to Rich (Bank 1 Sensor 2)	Comes on	DTC stored	INFO
P0140	Oxygen Sensor Circuit No Activity Detected (Bank 1 Sensor 2)	Comes on	DTC stored	INFO
P0141	Oxygen Sensor Heater Circuit (Bank 1 Sensor 2)	Comes on	DTC stored	INFO
P014C	A/F Sensor Slow Response - Rich to Lean Bank 1 Sensor 1	Comes on	DTC stored	INFO
P014D	A/F Sensor Slow Response - Lean to Rich Bank 1 Sensor 1	Comes on	DTC stored	INFO
P015A	A/F Sensor Delayed Response - Rich to Lean Bank 1 Sensor 1	Comes on	DTC stored	INFO
P015B	A/F Sensor Delayed Response - Lean to Rich Bank 1 Sensor 1	Comes on	DTC stored	INFO

DTC CODE	DETECTION ITEM	MIL	MEMORY	SEE PAGE
P0171	System Too Lean (Bank 1)	Comes on	DTC stored	INFO
P0172	System Too Rich (Bank 1)	Comes on	DTC stored	INFO
P0191	Fuel Rail Pressure Sensor Circuit Range / Performance	Comes on	DTC stored	INFO
P0192	Fuel Rail Pressure Sensor Circuit Low Input	Comes on	DTC stored	INFO
P0193	Fuel Rail Pressure Sensor Circuit High Input	Comes on	DTC stored	INFO
P0196	Engine Oil Temperature Sensor (Range/Performance)	Comes on	DTC stored	INFO
P0197	Engine Oil Temperature Sensor Low	Comes on	DTC stored	INFO
P0198	Engine Oil Temperature Sensor High	Comes on	DTC stored	INFO
P0201	Injector Circuit / Open - (Cylinder 1)	Comes on	DTC stored	INFO
P0202	Injector Circuit / Open - (Cylinder 2)	Comes on	DTC stored	INFO
P0203	Injector Circuit / Open - (Cylinder 3)	Comes on	DTC stored	INFO
P0204	Injector Circuit / Open - (Cylinder 4)	Comes on	DTC stored	INFO
P0222	Throttle / Pedal Position Sensor / Switch "B" Circuit Low Input	Comes on	DTC stored	INFO
P0223	Throttle / Pedal Position Sensor / Switch "B" Circuit High Input	Comes on	DTC stored	INFO
P0230	Fuel Pump Primary Circuit	Comes on	DTC stored	INFO
P0300	Random / Multiple Cylinder Misfire Detected	Comes on/Blinks*	DTC stored	INFO
P0301	Cylinder 1 Misfire Detected	Comes on/Blinks*	DTC stored	INFO
P0302	Cylinder 2 Misfire Detected	Comes on/Blinks*	DTC stored	INFO
P0303	Cylinder 3 Misfire Detected	Comes on/Blinks*	DTC stored	INFO
P0304	Cylinder 4 Misfire Detected	Comes on/Blinks*	DTC stored	INFO

DTC CODE	DETECTION ITEM	MIL	MEMORY	SEE PAGE
P0327	Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)	Comes on	DTC stored	INFO
P0328	Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)	Comes on	DTC stored	INFO
P0332	Knock Sensor 2 Circuit Low Input (Bank 2)	Comes on	DTC stored	INFO
P0333	Knock Sensor 2 Circuit High Input (Bank 2)	Comes on	DTC stored	INFO
P0335	Crankshaft Position Sensor "A" Circuit	Comes on	DTC stored	INFO
P0336	Crankshaft Position Sensor Range / Performance	Comes on	DTC stored	INFO
P0340	Camshaft Position Sensor Circuit Malfunction	Comes on	DTC stored	INFO
P0341	Camshaft Position Sensor "A" Circuit Range / Performance (Bank 1 or Single Sensor)	Comes on	DTC stored	INFO
P0345	Camshaft Position Sensor "A" Circuit (Bank 2)	Comes on	DTC stored	INFO
P0346	Camshaft Position Sensor "A" Circuit Range / Performance (Bank 2)	Comes on	DTC stored	INFO
P0351	Ignition Coil "A" Primary / Secondary Circuit	Comes on	DTC stored	INFO
P0352	Ignition Coil "B" Primary / Secondary Circuit	Comes on	DTC stored	INFO
P0353	Ignition Coil "C" Primary / Secondary Circuit	Comes on	DTC stored	INFO
P0354	Ignition Coil "D" Primary / Secondary Circuit	Comes on	DTC stored	INFO
P0365	Camshaft Position Sensor "B" Circuit (Bank 1)	Comes on	DTC stored	INFO
P0366	Camshaft Position Sensor "B" Circuit Range / Performance (Bank 1)	Comes on	DTC stored	INFO
P0390	Camshaft Position Sensor "B" Circuit (Bank 2)	Comes on	DTC stored	INFO
P0391	Camshaft Position Sensor "B" Circuit Range / Performance (Bank 2)	Comes on	DTC stored	INFO
P0420	Catalyst System Efficiency Below Threshold (Bank 1)	Comes on	DTC stored	INFO
P0441	Evaporative Emission Control System Incorrect Purge Flow	Comes on	DTC stored	INFO

DTC CODE	DETECTION ITEM	MIL	MEMORY	SEE PAGE
P0451	Evaporative Emission Control System Pressure Sensor Range / Performance	Comes on	DTC stored	INFO
P0452	Evaporative Emission Control System Pressure Sensor / Switch Low Input	Comes on	DTC stored	INFO
P0453	Evaporative Emission Control System Pressure Sensor / Switch High Input	Comes on	DTC stored	INFO
P0455	Evaporative Emission Control System Leak Detected (Gross Leak)	Comes on	DTC stored	INFO
P0456	Evaporative Emission Control System Leak Detected (Very Small Leak)	Comes on	DTC stored	INFO
P0458	Evaporative Emission System Purge Control Valve Circuit Low	Comes on	DTC stored	INFO
P0459	Evaporative Emission System Purge Control Valve Circuit High	Comes on	DTC stored	INFO
P0461	Fuel Level Sensor "A" Circuit Range / Performance	Comes on	DTC stored	INFO
P0462	Fuel Level Sensor "A" Circuit Low	Comes on	DTC stored	INFO
P0463	Fuel Level Sensor "A" Circuit High	Comes on	DTC stored	INFO
P0500	Vehicle Speed Sensor "A"	Comes on	DTC stored	INFO
P0506	Idle Air Control System RPM Lower than Expected	Comes on	DTC stored	INFO
P0507	Idle Air Control System RPM Higher than Expected	Comes on	DTC stored	INFO
P050A	Cold Start Idle Air Control System Performance	Comes on	DTC stored	INFO
P050B	Cold Start Ignition Timing Performance	Comes on	DTC stored	INFO
P0560	System Voltage	Comes on	DTC stored	INFO
P0604	Internal Control Module Random Access Memory (RAM) Error	Comes on	DTC stored	INFO
P0605	Internal Control Module Read Only Memory (ROM) Error	Comes on	DTC stored	INFO
P0606	ECM / PCM Processor	Comes on	DTC stored	INFO
P060A	Internal Control Module Monitoring Processor Performance	Comes on	DTC stored	INFO

DTC CODE	DETECTION ITEM	MIL	MEMORY	SEE PAGE
P060B	Internal Control Module A/D Processing Performance	Comes on	DTC stored	INFO
P0616	Starter Relay Circuit Low	Comes on	DTC stored	INFO
P0617	Starter Relay Circuit High	Comes on	DTC stored	INFO
P062D	No. 1 Fuel Injector Driver Circuit Performance	Comes on	DTC stored	INFO
P062F	Internal Control Module EEPROM Error	Comes on	DTC stored	INFO
P0700	Transmission Control System (MIL Request)	Comes on	DTC stored	INFO
P0851	Park / Neutral Switch Input Circuit Low	Comes on	DTC stored	INFO
P0852	Park / Neutral Switch Input Circuit High	Comes on	DTC stored	INFO
P1109	Throttle Deposit Malfunction	Does not come on	DTC stored	INFO
P1160	Throttle Valve Return Spring Malfunction	Comes on	DTC stored	INFO
P1170	Port Injector Fuel Performance	Does not come on	DTC stored	INFO
P117B	Direct Injector Fuel Performance	Does not come on	DTC stored	INFO
P1235	High Pressure Fuel Pump Circuit	Comes on	DTC stored	INFO
P1261	DI Injector Circuit / Open - (Cylinder 1)	Comes on	DTC stored	INFO
P1262	DI Injector Circuit / Open - (Cylinder 2)	Comes on	DTC stored	INFO
P1263	DI Injector Circuit / Open - (Cylinder 3)	Comes on	DTC stored	INFO
P1264	DI Injector Circuit / Open - (Cylinder 4)	Comes on	DTC stored	INFO
P1449	Evaporative Emission System Lid Open Switch Stuck ON	Comes on	DTC stored	INFO
P1451	Fuel Tank Pressure Sensor Range/Performance	Comes on	DTC stored	INFO
P1603	Engine Stall History	Does not come on	DTC stored	INFO

DTC CODE	DETECTION ITEM	MIL	MEMORY	SEE PAGE
P1604	Startability Malfunction	Does not come on	DTC stored	INFO
P2096	Post Catalyst Fuel Trim System Too Lean (Bank 1)	Comes on	DTC stored	INFO
P2097	Post Catalyst Fuel Trim System Too Rich (Bank 1)	Comes on	DTC stored	INFO
P2101	Throttle Actuator Control Motor Circuit Range/Performance	Comes on	DTC stored	INFO
P2102	Throttle Actuator Control Motor Circuit Low	Comes on	DTC stored	INFO
P2103	Throttle Actuator Control Motor Circuit High	Comes on	DTC stored	INFO
P2109	Throttle / Pedal Position Sensor "A" Minimum Stop Performance	Does not come on	DTC stored	INFO
P2119	Throttle Actuator Control Throttle Body Range / Performance	Comes on	DTC stored	INFO
P2122	Throttle / Pedal Position Sensor / Switch "D" Circuit Low Input	Comes on	DTC stored	INFO
P2123	Throttle / Pedal Position Sensor / Switch "D" Circuit High Input	Comes on	DTC stored	INFO
P2127	Throttle / Pedal Position Sensor / Switch "E" Circuit Low Input	Comes on	DTC stored	INFO
P2128	Throttle / Pedal Position Sensor / Switch "E" Circuit High Input	Comes on	DTC stored	INFO
P2135	Throttle / Pedal Position Sensor / Switch "A" / "B" Voltage Correlation	Comes on	DTC stored	INFO
P2138	Throttle / Pedal Position Sensor / Switch "D" / "E" Voltage Correlation	Comes on	DTC stored	INFO
P2195	Oxygen (A/F) Sensor Signal Stuck Lean (Bank 1 Sensor 1)	Comes on	DTC stored	INFO
P2196	Oxygen (A/F) Sensor Signal Stuck Rich (Bank 1 Sensor 1)	Comes on	DTC stored	INFO
P219A	Bank 1 Air-Fuel Ratio Imbalance	Comes on	DTC stored	INFO
P2401	Evaporative Emission System Leak Detection Pump Control Circuit Low	Comes on	DTC stored	INFO
P2402	Evaporative Emission Leak Detection Pump Stuck ON	Comes on	DTC stored	INFO
P2404	Evaporative Emission System Leak Detection Pump Sense Circuit Range / Performance	Comes on	DTC stored	INFO

DTC CODE	DETECTION ITEM	MIL	MEMORY	SEE PAGE
P2419	Evaporative Emission System Switching Valve Control Circuit Low	Comes on	DTC stored	INFO
P2420	Evaporative Emission Pressure Switching Valve Stuck OFF	Comes on	DTC stored	INFO
P2610	ECM / PCM Internal Engine Off Timer Performance	Comes on	DTC stored	INFO
U0073	Control Module Communication Bus "A" Off	Comes on	DTC stored	INFO
U0101	Lost Communication with TCM	Comes on	DTC stored	INFO
U0122	Lost Communication with Vehicle Dynamics Control Module	Comes on	DTC stored	INFO
U0140	Lost Communication with Body Control Module	Comes on	DTC stored	INFO
U0155	Lost Communication with Instrument Panel Cluster (IPC) Control Module	Comes on	DTC stored	INFO
U0402	Invalid Data Received from TCM	Comes on	DTC stored	INFO
U0416	Invalid Data Received from Vehicle Dynamics Control Module	Comes on	DTC stored	INFO
U0423	Invalid Data Received from Instrument Panel Cluster Control Module	Comes on	DTC stored	INFO

