




ENGINE 113.942 as of 1.6.00

ENGINE 113.965

i		All tests of the electrical system of the ME-SFI fuel injection system on engine 113 are described in STAR DIAGNOSIS. The following list contains the fault code description for the corresponding fault code	
Fault code STAR DIAGNOSIS (USA) Display on generic scan tool)	Possible cause	Note	Fault code description
P2001 (P0400)	Exhaust gas recirculation malfunction (causal chain), fault code description ME-SFI		AD07.61-P-4000-50AA
P2003 (P0410)	ME-SFI secondary air injection malfunction (causal chain) - fault code description		AD07.61-P-4000-15AA
P2004 (P0100)	Hot-film mass-air sensor ME-SFI - fault code description		AD07.61-P-4000-01BA
P2005 (P0115)	Coolant temperature sensor ME-SFI - fault code description		AD07.61-P-4000-04L
P2006 (P0110)	Intake air temperature sensor ME-SFI - fault code description		AD07.61-P-4000-03L
P2007 (P0105)	Pressure sensor ME-SFI - fault code description		AD07.61-P-4000-02L
P2008 (P0135)	O2-sensor heating - fault code description ME-SFI	Right O2 sensor upstream of the TWC, internal resistance	AD07.61-P-4000-08AA
P2009 (P0141)	O2-sensor heating - fault code description ME-SFI	Right O2 sensor downstream of the TWC, internal resistance	AD07.61-P-4000-08AA
P200A (-)	Anti-knock control hardware fault in the control unit ME-SFI fault code description		AD07.61-P-4000-41AA
P200B (P0422)	Fault code description - three-way catalytic converter effectiveness too low	Right catalytic converter	AD07.61-P-4000-16AA
P200C (-)	Aging of oxygen sensor upstream of TWC ME-SFI fault code description	Right O2 oxygen sensor upstream of TWC, correction variable exceeded	AD07.61-P-4000-07AA
P200D (P0133)	Aging of oxygen sensor upstream of TWC, ME-SFI fault code description	Right O2sensor upstream of the TWC, cycle duration	AD07.61-P-4000-07AB
P200E (-)	O2 sensor signal, fault code description ME	Right O2 sensor downstream of TWC, no sensor status change	AD07.61-P-4000-06AA
P200F (P0130)	O2 sensor signal, fault code description ME	Right O2 oxygen sensor upstream of TWC, electrical fault	AD07.61-P-4000-06AB
P2010 (P0136)	O2 sensor signal, fault code description ME	Right O2 oxygen sensor downstream of TWC, electrical fault	AD07.61-P-4000-06AB
P2011 (-)	Knock sensor ME-SFI - fault code description	Right knock sensor 1	AD07.61-P-4000-12AA
P2012 (P0446)	Activated charcoal canister shutoff valve ME-SFI - fault code description	(USA) Plausibility	AD07.61-P-4000-20L
P2013 (P0455)	System purging leaks (causal chain) Fault code description, ME-SFI	(USA) Major leak in purge system	AD07.61-P-4000-17L
P2014 (P0422)	System purging leaks (causal chain) Fault code description, ME-SFI	(USA) Purge system has minor leak, slight leak	AD07.61-P-4000-17L
P2015 (P0440)	System purging leaks (causal chain) Fault code description, ME-SFI	(USA) Purge system leaking	AD07.61-P-4000-17L
P2016 (P0170)	Self-adaptation of mixture formation at its limit - fault code description	for the right cylinder bank, with partial load	AD07.61-P-4000-09AC

	ME-SFI		
P2017 (P0170)	Self-adaptation of mixture formation at its limit - fault code description ME-SFI	for the right cylinder bank, when idling	AD07.61-P-4000-09AB
P2018 (-)	Self-adaptation of mixture formation at its limit - fault code description ME-SFI	for the right cylinder bank, between idling and partial load	AD07.61-P-4000-09AA
P2019 (-)	Anti-boiling protection for coolant, fault code description, ME-SFI		AD07.61-P-4000-70L
P201A (P0341)	Camshaft Hall sensor - fault code description ME-SFI		AD07.61-P-4000-14AA
P201B (P0560)	ME-SFI control unit voltage supply - fault code description		AD07.61-P-4000-59L
P201C (P0450)	Tank pressure sensor ME-SFI - fault code description		AD07.61-P-4000-21L
P201D (P0201)	Fault code description for fuel injection valves, ME-SFI	Cylinder 1	AD07.61-P-4000-10BA
P201E (P0205)	Fault code description for fuel injection valves, ME-SFI	Cylinder 5	AD07.61-P-4000-10BA
P201F (P0204)	Fault code description for fuel injection valves, ME-SFI	Cylinder 4	AD07.61-P-4000-10BA
P2020 (P0202)	Fault code description for fuel injection valves, ME-SFI	Cylinder 2	AD07.61-P-4000-10BA
P2021 (P0206)	Fault code description for fuel injection valves, ME-SFI	Cylinder 6	AD07.61-P-4000-10BA
P2022 (P0203)	Fault code description for fuel injection valves, ME-SFI	Cylinder 3	AD07.61-P-4000-10BA
P2023 (P0410)	Secondary air injection relay, fault code description, ME-SFI		AD07.61-P-4000-69L
P2024 (P0412)	Air pump switchover valve - fault code description, ME-SFI		AD07.61-P-4000-78A
P2025 (P0446)	Activated charcoal canister shutoff valve ME-SFI - fault code description	 Voltage supply	AD07.61-P-4000-20L
P2026 (P0443)	Fault code description for purge control valve, ME-SFI		AD07.61-P-4000-19L
P2027 (P0403)	EGR transducer, fault code description ME-SFI		AD07.61-P-4000-51AA
P2028 (P0507)	Idling speed control ME-SFI fault code description		AD07.61-P-4000-24L
P202C (P0115)	Coolant thermostat - fault code description, ME-SFI		AD07.61-P-4000-76L
P202D (P0115)	Coolant temperature sensor ME-SFI - fault code description		AD07.61-P-4000-04LA
P202E (P0120)	Throttle valve actuator ME-SFI - fault code description	Adjustment	AD07.61-P-4000-49LB
P202F (P0600)	CAN fault detection ME-SFI - fault code description	CAN message from ABC control unit	AD07.61-P-4000-32LD
P2030 (P0600)	CAN fault detection ME-SFI - fault code description	CAN message from electronic selector lever module control unit	AD07.61-P-4000-32LF
P2031 (P0600)	CAN fault detection ME-SFI - fault code description	CAN message from jacket tube module	AD07.61-P-4000-32LC
P2032 (P0120)	Throttle valve actuator ME-SFI - fault code description	Actual value potentiometer	AD07.61-P-4000-49L
P2033 (-)	Cruise control pushbutton switch, fault code description, ME-SFI		AD07.61-P-4000-73L
P2034 (P0335)	Fault code description for crankshaft position sensor, ME-SFI		AD07.61-P-4000-13L
P2036 (P0600)	CAN fault detection ME-SFI - fault code description	CAN message from ESP control unit	AD07.61-P-4000-32LG
P2037 (P0600)	CAN fault detection ME-SFI - fault code description	CAN message from ETC control unit Transmission 722.6	AD07.61-P-4000-32LE
P2038 (-)	Knock sensor ME-SFI - fault code description	Left knock sensor 2	AD07.61-P-4000-12AA

P2039 (-)	Oil sensor - fault code description, ME-SFI	Oil level implausible	AD07.61-P-4000-60L
P203A (P0460)	Fill level in fuel tank, fault code description, ME-SFI		AD07.61-P-4000-64L
P203B (P0221)	ME-SFI control unit - fault code description, ME-SFI	Fault in function monitoring	AD07.61-P-4000-91L
P203C (P0221)	ME-SFI control unit - fault code description, ME-SFI	Fault in function monitoring	AD07.61-P-4000-91L
P203D (P0370)	Angular deviation of camshaft to crankshaft, fault code description, ME-SFI		AD07.61-P-4000-77A
P203E (P0600)	CAN fault detection ME-SFI - fault code description	CAN message from instrument cluster	AD07.61-P-4000-32LL
P2040 (-)	Oil sensor - fault code description, ME-SFI	Oil quality implausible	AD07.61-P-4000-60L
P2041 (-)	Oil sensor - fault code description, ME-SFI	Water in engine oil	AD07.61-P-4000-60L
P2042 (-)	Safety fuel shutoff detected, fault code description, ME-SFI		AD07.61-P-4000-74L
P2043 (P0300)	Fault code description - ME-SFI - misfires	Total, emission limit	AD07.61-P-4000-11BA
P2044 (P0301)	Fault code description - ME-SFI - misfires	Misfire at cylinder 1, emission limit	AD07.61-P-4000-11BA
P2045 (P0305)	Fault code description - ME-SFI - misfires	Misfire at cylinder 5, emission limit	AD07.61-P-4000-11BA
P2046 (P0304)	Fault code description - ME-SFI - misfires	Misfire at cylinder 4, emission limit	AD07.61-P-4000-11BA
P2047 (P0302)	Fault code description - ME-SFI - misfires	Misfire at cylinder 2, emission limit	AD07.61-P-4000-11BA
P2048 (P0306)	Fault code description - ME-SFI - misfires	Misfire at cylinder 6, emission limit	AD07.61-P-4000-11BA
P2049 (P0303)	Fault code description - ME-SFI - misfires	Misfire at cylinder 3, emission limit	AD07.61-P-4000-11BA
P204A (P0307)	Fault code description - ME-SFI - misfires	Misfire at cylinder 7, emission limit	AD07.61-P-4000-11BA
P204B (P0308)	Fault code description - ME-SFI - misfires	Misfire at cylinder 8, emission limit	AD07.61-P-4000-11BA
P2050 (P0300)	Fault code description - ME-SFI - misfires	Total, harmful to TWC	AD07.61-P-4000-11BB
P2051 (P0301)	Fault code description - ME-SFI - misfires	Misfire at cylinder 1, damaging to TWC	AD07.61-P-4000-11BB
P2052 (P0305)	Fault code description - ME-SFI - misfires	Misfire at cylinder 5, damaging to TWC	AD07.61-P-4000-11BB
P2053 (P0304)	Fault code description - ME-SFI - misfires	Misfire at cylinder 4, damaging to TWC	AD07.61-P-4000-11BB
P2054 (P0302)	Fault code description - ME-SFI - misfires	Misfire at cylinder 2, damaging to TWC	AD07.61-P-4000-11BB
P2055 (P0306)	Fault code description - ME-SFI - misfires	Misfire at cylinder 6, damaging to TWC	AD07.61-P-4000-11BB
P2056 (P0303)	Fault code description - ME-SFI - misfires	Misfire at cylinder 3, damaging to TWC	AD07.61-P-4000-11BB
P2057 (P0307)	Fault code description - ME-SFI - misfires	Misfire at cylinder 7, damaging to TWC	AD07.61-P-4000-11BB
P2058 (P0308)	Fault code description - ME-SFI - misfires	Misfire at cylinder 8, damaging to TWC	AD07.61-P-4000-11BB
P205E (P0702)	ETC control unit ME-SFI - fault code description	Internal fault Transmission 722.6	AD07.61-P-4000-29L
P205F (P0753)	1 - 2/4 - 5 shifting solenoid valve ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-38L
P2060 (P0758)	2 - 4 shift solenoid valve, ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-39L
P2061 (P0763)	3 - 4 shift solenoid valve, ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-40L
P2062 (P0743)	Converter lockup PWM solenoid	Transmission 722.6	AD07.61-P-4000-35L

	valve ME-SFI fault code description		
P2063 (P0748)	Modulating pressure control solenoid valve ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-36L
P2064 (P0748)	Shifting pressure control solenoid valve ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-37L
P2065 (P0702)	Valve supply voltage ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-30L
P2066 (P0715)	Rotational rpm sensor supply voltage and function ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-31L
P2067 (P0705)	ETC control unit ME-SFI - fault code description	Selector lever module coded incorrectly Transmission 722.6	AD07.61-P-4000-29L
P2068 (P0720)	ETC control unit ME-SFI - fault code description	CAN message rear wheel speeds from ESP control unit missing or defective Transmission 722.6	AD07.61-P-4000-29L
P2069 (P0700)	Gear implausible or transmission leaking ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-27L
P206A (P0700)	Command valve jams in pressure position ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-28L
P206B (P0740)	Converter lockup clutch ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-34L
P206D (P0730)	Gear comparison negative (several times) ME-SFI fault code description	Transmission 722.6	AD07.61-P-4000-33L
P206E (-)	Transmission variant implausible, fault code description, ME-SFI	Coded for MT, vehicle has AT Transmission 722.6	AD07.61-P-4000-67L
P206F (-)	Transmission variant implausible, fault code description, ME-SFI	Incorrectly coded or fault in the CAN communication with ETC control unit Transmission 722.6	AD07.61-P-4000-67L
P2070 (-)	Transmission variant implausible, fault code description, ME-SFI	Transmission 722.6	AD07.61-P-4000-67L
P2072 (P0450)	Tank pressure sensor ME-SFI - fault code description	 Plausibility	AD07.61-P-4000-21LA
P2073 (-)	Electrical suction-type fan - fault code description, ME-SFI		AD07.61-P-4000-71L
P2074 (-)	Variable intake manifold switchover valve, fault code description, ME-SFI		AD07.61-P-4000-81A
P2075 (P0442)	System purging leaks (causal chain) Fault code description, ME-SFI	 Purge system has minor leak, very fine leak	AD07.61-P-4000-17L
P2076 (-)	Oil sensor - fault code description, ME-SFI	Oil temperature implausible	AD07.61-P-4000-60L
P2079 (-)	CAN fault detection ME-SFI - fault code description	Variable speed limiter speed	AD07.61-P-4000-32AB
P207A (-)	CAN fault detection ME-SFI - fault code description	Variable speed limiter speed	AD07.61-P-4000-32AB
P207B (-)	CAN fault detection ME-SFI - fault code description	Selector lever position	AD07.61-P-4000-32AC
P207D (-)	EIS control unit - fault code description, ME-SFI		AD07.61-P-4000-63L
P207E (P0432)	Fault code description - three-way catalytic converter effectiveness too low	Left catalytic converter	AD07.61-P-4000-16AA
P207F (-)	Aging of oxygen sensor upstream of TWC ME-SFI fault code description	Left O2 oxygen sensor upstream of TWC, correction variable exceeded	AD07.61-P-4000-07AA
P2080 (P0153)	Aging of oxygen sensor upstream of TWC, ME-SFI fault code description	Left O2 sensor upstream of the TWC, cycle duration	AD07.61-P-4000-07AB
P2081 (-)	O2 sensor signal, fault code description ME	Left O2 sensor downstream of TWC, no sensor status change	AD07.61-P-4000-06AA
P2082 (P0150)	O2 sensor signal, fault code description ME	Left O2 oxygen sensor upstream of TWC, electrical fault	AD07.61-P-4000-06AB
P2083 (P0156)	O2 sensor signal, fault code	Left O2 sensor downstream of TWC,	AD07.61-P-4000-06AB

	description ME	electrical fault	
P2085 (P0173)	Self-adaptation of mixture formation at its limit - fault code description ME-SFI	for the left cylinder bank, with partial load	AD07.61-P-4000-09AC
P2086 (P0173)	Self-adaptation of mixture formation at its limit - fault code description ME-SFI	for the left cylinder bank, when idling	AD07.61-P-4000-09AB
P2087 (-)	Self-adaptation of mixture formation at its limit - fault code description ME-SFI	for the left cylinder bank, between idling and partial load	AD07.61-P-4000-09AA
P2088 (P0155)	O2-sensor heating - fault code description ME-SFI	Left O2 sensor upstream of the TWC, internal resistance	AD07.61-P-4000-08AA
P2089 (P0161)	O2-sensor heating - fault code description ME-SFI	Left O2 sensor downstream of the TWC, internal resistance	AD07.61-P-4000-08AA
P208A (P0207)	Fault code description for fuel injection valves, ME-SFI	Cylinder 7	AD07.61-P-4000-10BA
P208B (P0208)	Fault code description for fuel injection valves, ME-SFI	Cylinder 8	AD07.61-P-4000-10BA
P2090 (-)	Plug connectors of oxygen sensors transposed, fault code description, ME-SFI		AD07.61-P-4000-72L
P2097 (-)	Throttle valve actuator ME-SFI - fault code description	Throttle valve jams, iced up	AD07.61-P-4000-49LA
P2098 (-)	Crash signal implausible - fault code description, ME-SFI		AD07.61-P-4000-62L
P20BE (P0135)	O2-sensor heating - fault code description ME-SFI	Right O2 sensor upstream of the TWC, voltage supply	AD07.61-P-4000-08AB
P20BF (P0135)	O2-sensor heating - fault code description ME-SFI	Left O2 sensor upstream of the TWC, voltage supply	AD07.61-P-4000-08AB
P20C2 (P0141)	O2-sensor heating - fault code description ME-SFI	Right O2 sensor downstream of the TWC, voltage supply	AD07.61-P-4000-08AB
P20C3 (P0141)	O2-sensor heating - fault code description ME-SFI	Left O2 sensor downstream of the TWC, voltage supply	AD07.61-P-4000-08AB
P20CA (P0500)	CAN fault detection ME-SFI - fault code description	Vehicle speed signal of the left rear wheel from the ESP control unit	AD07.61-P-4000-32LA
P20CB (P0500)	CAN fault detection ME-SFI - fault code description	Vehicle speed signal of the left front wheel from the ESP control unit	AD07.61-P-4000-32LB
P20CC (-)	CAN fault detection ME-SFI - fault code description	CAN message from ESP control unit missing or incorrect	AD07.61-P-4000-32AA
P20CD (-)	Air conditioning, fault code description, ME-SFI	AC compressor torque implausible	AD07.61-P-4000-65L
P20CE (-)	Air conditioning, fault code description, ME-SFI	Refrigerant pressure in air conditioning too high	AD07.61-P-4000-65L
P20CF (P0120)	Fault code description for pedal value sensor, ME-SFI	Voltage difference between signal 1 and signal 2	AD07.61-P-4000-45L
P20D0 (-)	Air conditioning, fault code description, ME-SFI	The air conditioning demands an implausible fan output	AD07.61-P-4000-65L
P20D1 (-)	CAN fault detection ME-SFI - fault code description	Moment demand from DTR control unit implausible	AD07.61-P-4000-32LH
P20D2 (-)	CAN fault detection ME-SFI - fault code description	CAN transmission fault of the moment demand from the DTR control unit	AD07.61-P-4000-32LH
P20D3 (-)	CAN fault detection ME-SFI - fault code description	CAN transmission fault of the moment demand from the DTR control unit	AD07.61-P-4000-32LH
P20D4 (-)	Load limitation active, fault code description, ME-SFI		AD07.61-P-4000-82AA
P20D5 (P0702)	ETC control unit ME-SFI - fault code description	The moment demand from the ETC control unit is implausible	AD07.61-P-4000-29L
P20D6 (P0702)	ETC control unit ME-SFI - fault code description	CAN transmission fault of the moment demand from the ETC control unit	AD07.61-P-4000-29L
P20D7 (P0702)	ETC control unit ME-SFI - fault code description	CAN transmission fault of the moment demand from the ETC control unit	AD07.61-P-4000-29L
P20D8 (-)	ESP control unit - fault code description, ME-SFI	ESP fault	AD07.61-P-4000-66L
P20D9 (-)	CAN fault detection ME-SFI - fault code description	Moment demand from the ESP control unit implausible	AD07.61-P-4000-32LJ

P200A (-)	CAN fault detection ME-SFI - fault code description	CAN transmission fault of the moment demand from the ESP control unit	AD07.61-P-4000-32LJ
P200B (-)	CAN fault detection ME-SFI - fault code description	CAN transmission fault of the moment demand from the ESP control unit	AD07.61-P-4000-32LJ
P200C (P0120)	Fault code description for pedal value sensor, ME-SFI	Open circuit in signal path 1	AD07.61-P-4000-45L
P200D (P0120)	Fault code description for pedal value sensor, ME-SFI	Short circuit at signal path 1	AD07.61-P-4000-45L
P200E (P0120)	Fault code description for pedal value sensor, ME-SFI	Open circuit in signal path 2	AD07.61-P-4000-45L
P200F (P0120)	Fault code description for pedal value sensor, ME-SFI	Short circuit at signal path 2	AD07.61-P-4000-45L
P20E3 (P0120)	Fault code description for pedal value sensor, ME-SFI	Voltage supply, pedal value sensor	AD07.61-P-4000-45L
P20E4 (-)	CAN fault detection ME-SFI - fault code description	Implausible signal from stop lamp switch	AD07.61-P-4000-32LK
P20E5 (-)	CAN fault detection ME-SFI - fault code description	CAN transmission fault of the signal from the stop lamp switch	AD07.61-P-4000-32LK
P20E6 (-)	CAN fault detection ME-SFI - fault code description	CAN transmission fault of the signal from the stop lamp switch	AD07.61-P-4000-32LK