








AD07.16-P-4000C	Common rail diesel injection (CDI) diagnosis, fault memory	17.6.03
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ENGINE 648.961 in MODEL 211.026
 fault codes from P0100 up to P2038

 Danger!	Risk of explosion caused by fuel igniting, risk of poisoning caused by inhaling and swallowing fuel as well as risk of injury to eyes and skin caused by contact with fuel.	No fire, sparks, open flames or smoking allowed. Only pour fuels into suitable and appropriately marked containers. Wear protective clothing when handling fuel.	AS47.00-Z-0001-01A
	Connect STAR DIAGNOSIS and read out fault memory		AD00.00-P-2000-04A
	Fuses and voltage supply OK	 The on-board power supply voltage must be at least 11 to 14 V.	
 GF	Common rail diesel injection (CDI), location of components	on engine side	GF07.16-P-0001-01IE
 GF		on vehicle side	GF07.16-P-0001-01IF
		The following fault code descriptions are valid for EU 3 up to  and EU 4.	
Fault code	Fault code designation	Types of fault	Fault code description
P0100	Hot film MAF sensor, fault code description, diagnosis, CDI	The air mass is too low or too high	AD07.16-P-4000-01C
P0105	Pressure sensor, fault code description, diagnosis, CDI	The signal voltage is too low or too high The atmospheric pressure between the charge pressure sensor and CDI control unit is implausible	AD07.16-P-4000-02C AD07.16-P-4000-02CAA
P0110	Charge air temperature sensor, fault code description, diagnosis, CDI	The signal voltage is too low or too high	AD07.16-P-4000-62C
P0115	Coolant temperature sensor, fault code description, diagnosis, CDI	The signal voltage is too low or too high	AD07.16-P-4000-04C
P0180	Fuel temperature sensor, fault code	The signal voltage is too low or too high	AD07.16-P-4000-53C

	description, diagnosis, CDI		
P0190	Rail pressure sensor, fault code description, diagnosis, CDI	The signal voltage is too low or too high	AD07.16-P-4000-05C
P0201 P0202 P0203 P0204 P0205 P0206	Fuel injectors, fault code description, diagnosis, CDI	Cylinder 1 to cylinder 6 Short circuit to positive Short circuit to each other General error	AD07.16-P-4000-22C AD07.16-P-4000-22CAA AD07.16-P-4000-22CAB
P0300	Misfiring, fault code description, diagnosis, CDI	Number of misfires on a number of cylinder too high	AD07.16-P-4000-49CA
P0500	Driving speed signal, fault code description, diagnosis, CDI	Implausible wheel speed	AD07.16-P-4000-54C
P0600	CAN bus, fault code description, diagnosis, CDI	CAN signal faulty	AD07.16-P-4000-07C
P1105	Barometric pressure sensor (internal), fault code description, diagnosis, CDI	The signal voltage is too low or too high The atmospheric pressure between the CDI control unit and charge pressure sensor is implausible	AD07.16-P-4000-10C AD07.16-P-4000-10CAA
P1222	Pedal value sensor (sensor 1), fault code description, diagnosis, CDI	The signal voltage is too low or too high Plausibility of sensors 1/2	AD07.16-P-4000-16C AD07.16-P-4000-16CAA
P1234	Pedal value sensor (sensor 2), fault code description, diagnosis, CDI	The signal voltage is too low or too high Plausibility of sensors 2/1	AD07.16-P-4000-17C AD07.16-P-4000-17CAA
P1480	Pre-glow check, fault code description, diagnosis, CDI	CAN defective	AD07.16-P-4000-24C
P1610	Actuation of holding relay, fault code description, diagnosis, CDI	Relay switching off too early or too late	AD07.16-P-4000-28C
P1611	Sensor supply, fault code description,	Sensor supply voltage 1	

	diagnosis, CDI	Value too small or too large	AD07.16-P-4000-58C
P1612	Voltage of terminal 15, fault code description, diagnosis, CDI	No signal	AD07.16-P-4000-29C
P1615	CDI control unit supply voltage, fault code description, diagnosis, CDI	Value too small or too large	AD07.16-P-4000-31C
P1617	CDI control unit EEPROM or incorrect coding, fault code description, diagnosis, CDI	An error occurred during the last write or read operation An error occurred during the last read operation An error occurred during the last write operation The preset values were used	AD07.16-P-4000-32C AD07.16-P-4000-32CAA AD07.16-P-4000-32CAB AD07.16-P-4000-32CAC
P1636	Electric suction-type fan (engine / A/C), fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-35C AD07.16-P-4000-35CAA AD07.16-P-4000-35CAB AD07.16-P-4000-35CAC
P1664	Heater booster, fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-45C AD07.16-P-4000-45CAA AD07.16-P-4000-45CAB AD07.16-P-4000-45CAC
P2008	Rail pressure sensor, fault code	Offset test	








	description, diagnosis, CDI	The limit value was fallen short of or exceeded	AD07.16-P-4000-05CA
P2009	Fuel filter water level sensor, fault code description, diagnosis, CDI	Water level sensor in fuel filter defect (USA) Water in the fuel filter (USA)	AD07.16-P-4000-57C AD07.16-P-4000-57CAA
P2013	Outside air temperature sensor, fault code description, diagnosis, CDI	The signal voltage is too low or too high CAN signal faulty	AD07.16-P-4000-55C AD07.16-P-4000-55CAA
P2014	Oil sensor, fault code description, diagnosis, CDI	The limit value was fallen short of or exceeded Oil temperature is implausible Plausibility	AD07.16-P-4000-14C AD07.16-P-4000-14CAA AD07.16-P-4000-14CAB
P2015	Rail pressure monitoring, quantity control valve, fault code description, diagnosis, CDI	The rail pressure is too low	AD07.16-P-4000-60C
P2016	Rail pressure monitoring, quantity control valve, fault code description, diagnosis, CDI	The rail pressure is too high	AD07.16-P-4000-60CA
P2017	Rail pressure monitoring, quantity control valve, fault code description, diagnosis, CDI	The rail pressure is too low	AD07.16-P-4000-60CB
P2018	Rail pressure monitoring, quantity control valve, fault code description, diagnosis, CDI	The rail pressure is too high	AD07.16-P-4000-60CC
P2019	Rail pressure monitoring, pressure regulator valve, fault code description, diagnosis, CDI	The rail pressure is too low	AD07.16-P-4000-61C
P2021	Rail pressure monitoring, pressure regulator valve, fault code	The rail pressure is too low	AD07.16-P-4000-61CB

	description, diagnosis, CDI		
P2023	Rail pressure monitoring, pressure regulator valve, fault code description, diagnosis, CDI	The rail pressure is too high	AD07.16-P-4000-61CC
P2024	Intake air temperature sensor, fault code description, diagnosis CDI	The signal voltage is too low or too high	AD07.16-P-4000-03C
P2025	Pressure sensor, intake air, fault code description, diagnosis, CDI	The signal voltage is too low or too high The atmospheric pressure between the pressure sensor downstream of air cleaner and CDI control unit is implausible	AD07.16-P-4000-63C AD07.16-P-4000-63CAA
P2026	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Open circuit	AD07.16-P-4000-64C AD07.16-P-4000-64CAA AD07.16-P-4000-64CAB
P2028	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Pump current Short circuit to positive Short circuit to ground Open circuit	AD07.16-P-4000-64CA AD07.16-P-4000-64CAC AD07.16-P-4000-64CAD
P2030	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Open circuit	AD07.16-P-4000-64CB AD07.16-P-4000-64CBA AD07.16-P-4000-64CBB
P2032	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Voltage is too high Voltage is too low	AD07.16-P-4000-64CC AD07.16-P-4000-64CCA

P2034	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Calibration of O2-sensor Value too low or too high	AD07.16-P-4000-64CD
P2036	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Calibration of internal resistance Value too low or too high	AD07.16-P-4000-64CE
P2038	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	The internal resistance is too low or too high	AD07.16-P-4000-64CF

AD07.16-P-4000CA	Common rail diesel injection (CDI) diagnosis, fault memory	30.7.03
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ENGINE 648.961 in MODEL 211.026
 fault codes from P2040 up to P2153

 Danger!	Risk of explosion caused by fuel igniting, risk of poisoning caused by inhaling and swallowing fuel as well as risk of injury to eyes and skin caused by contact with fuel.	No fire, sparks, open flames or smoking allowed. Only pour fuels into suitable and appropriately marked containers. Wear protective clothing when handling fuel.	AS47.00-Z-0001-01A
	Connect STAR DIAGNOSIS and read out fault memory		AD00.00-P-2000-04A
	Fuses and voltage supply OK	 The on-board power supply voltage must be at least 11 to 14 V.	
 GF	Common rail diesel injection (CDI), location of components	on engine side	GF07.16-P-0001-01IE
 GF		on vehicle side	GF07.16-P-0001-01IF
		The following fault code descriptions are valid for EU 3 up to  and EU 4.	
Fault code	Fault code designation	Types of fault	Fault code description
P2040	Oil sensor, fault code description, diagnosis, CDI	Oil level Value is above the limit Invalid value Plausibility	AD07.16-P-4000-14CA AD07.16-P-4000-14CAC AD07.16-P-4000-14CAD
P2041	Oil sensor, fault code description, diagnosis, CDI	Oil quality Value is above the limit Invalid value	AD07.16-P-4000-14CB AD07.16-P-4000-

		Implausible value	14CBA AD07.16-P-4000-14CBB
P2042	Oil sensor, fault code description, diagnosis, CDI	Water in oil The water content is too high	AD07.16-P-4000-14CC
P2043	Camshaft Hall sensor, fault code description, diagnosis, CDI	No signal Signal faulty	AD07.16-P-4000-66C AD07.16-P-4000-66CAA
P2045	Crankshaft position sensor, fault code description, diagnosis, CDI	No signal Signal faulty	AD07.16-P-4000-19C AD07.16-P-4000-19CAA
P2047	Rail pressure monitoring, quantity control valve, fault code description, diagnosis, CDI	The rail pressure is too low	AD07.16-P-4000-60CD
P2051	Rail pressure monitoring, pressure regulator valve, fault code description, diagnosis, CDI	The maximum rail pressure was exceeded	AD07.16-P-4000-61CD
P2052	Rail pressure monitoring, pressure regulator valve, fault code description, diagnosis, CDI	The measured pressure is implausible in relation to the power consumption of the pressure regulator valve	AD07.16-P-4000-61CE
P2057	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Signal faulty	AD07.16-P-4000-64CH
P2059	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	The signal voltage is too high	AD07.16-P-4000-64CI
P2061	Oil sensor, fault code description, diagnosis, CDI	Signal faulty	AD07.16-P-4000-14CD
P2062	Oil sensor, fault code description, diagnosis, CDI	Error in pulse monitoring of first cycle Error in pulse monitoring of synchronization pause Error in pulse monitoring of on/off ratio	AD07.16-P-4000-14CE AD07.16-P-4000-14CEA AD07.16-P-4000-








			14CEB
P2063	Intake air temperature sensor, fault code description, diagnosis, CDI	The limit value was fallen short of or exceeded	AD07.16-P-4000-03CB
P2065	Hot film MAF sensor, fault code description, diagnosis, CDI	The supply voltage is too low or too high	AD07.16-P-4000-01CF
P2066	Hot film MAF sensor, fault code description, diagnosis, CDI	The limit value was fallen short of or exceeded Implausible value	AD07.16-P-4000-01CG AD07.16-P-4000-01CGA
P2067	Hot film MAF sensor, fault code description, diagnosis, CDI	The limit value was fallen short of or exceeded Short circuit/discontinuity	AD07.16-P-4000-01CH AD07.16-P-4000-01CHA
P2068	Hot film MAF sensor, fault code description, diagnosis, CDI	Duty cycle of the reference signal is too small or too large Short circuit/discontinuity	AD07.16-P-4000-01CC AD07.16-P-4000-01CCA
P2071	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Plausibility	AD07.16-P-4000-64CJ
P2073	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Value is below limit Plausibility	AD07.16-P-4000-64CK AD07.16-P-4000-64CKA
P2076	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Pump current Value is below limit	AD07.16-P-4000-64CG
P2078	Pressure differential sensor (TWC), fault code description, diagnosis, CDI	The limit value was fallen short of or exceeded Plausibility of circuit 15 ON	AD07.16-P-4000-56C AD07.16-P-4000-56CAA
P2080	Pressure differential sensor (TWC), fault code description, diagnosis, CDI	Signal implausible	AD07.16-P-4000-56CA
P2081	Pressure differential sensor (TWC), fault code description, diagnosis, CDI	Plausibility	AD07.16-P-4000-56CBA

P2082	Pressure differential sensor (TWC), fault code description, diagnosis, CDI	Plausibility error due to defective hose lines	AD07.16-P-4000-56CC
P2083	Pressure differential sensor (TWC), fault code description, diagnosis, CDI	Plausibility error due to blocked pressure sensor	AD07.16-P-4000-56CD
P2087	Air filter fouling, fault code description, diagnosis, CDI	The air cleaner is dirty	AD07.16-P-4000-68C
P2088	Intake air temperature sensor, fault code description, diagnosis CDI	The limit value was fallen short of or exceeded	AD07.16-P-4000-03CA
P2089	Exhaust back pressure sensor, fault code description, diagnosis, CDI	The voltage is too low or too high Plausibility	AD07.16-P-4000-69C AD07.16-P-4000-69CAA
P2100	Fuel pump (FP), fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-70C AD07.16-P-4000-70CAA AD07.16-P-4000-70CAB AD07.16-P-4000-70CAC
P2104	Starter control, fault code description, diagnosis, CDI	Short circuit to positive	AD07.16-P-4000-18C
P2113 P2114 P2115 P2116 P2117 P2118	Misfiring, fault code description, diagnosis, CDI	Cylinder 1 to cylinder 6 The number of misfires is too high	AD07.16-P-4000-49C
P2122	Engine shutoff path, fault code description, diagnosis, CDI	CDI control unit has detected a defective control loop Voltage monitoring/overvoltage Voltage monitoring/undervoltage	AD07.16-P-4000-71C AD07.16-P-4000-71CAA AD07.16-P-4000-

			71CAB
P2133 P2134 P2135 P2136 P2137 P2138	Glow plug failure, fault code description, diagnosis, CDI	Glow plug 1 to glow plug 6 Defective Short circuit Open circuit Excess temperature	AD07.16-P-4000-25CAC AD07.16-P-4000-25C AD07.16-P-4000-25CAA AD07.16-P-4000-25CAB
P2139	Injection valve bank, fault code description, diagnosis, CDI	Injection valve bank 1 Signal interrupted	AD07.16-P-4000-72CB
P2140	Injection valve bank, fault code description, diagnosis, CDI	Injection valve bank 2 Signal interrupted	AD07.16-P-4000-72CC
P2141 P2142 P2143 P2144 P2145 P2146	Fuel injectors, fault code description, diagnosis, CDI	Cylinders 1 to 6 Signal line interrupted	AD07.16-P-4000-22CA
P2152	Starter control, fault code description, diagnosis, CDI	Short circuit to ground	AD07.16-P-4000-18CA
P2153	Starter control, fault code description, diagnosis, CDI	Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-18CB AD07.16-P-4000-18CBA

AD07.16-P-4000CB	Common rail diesel injection (CDI) diagnosis, fault memory	30.7.03
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ENGINE 648.961 in MODEL 211.026
 fault codes from P2194 up to P2244

 Danger!	Risk of explosion caused by fuel igniting, risk of poisoning caused by inhaling and swallowing fuel as well as risk of injury to eyes and skin caused by contact with fuel.	No fire, sparks, open flames or smoking allowed. Only pour fuels into suitable and appropriately marked containers. Wear protective clothing when handling fuel.	AS47.00-Z-0001-01A
	Connect STAR DIAGNOSIS and read out fault memory		AD00.00-P-2000-04A
	Fuses and voltage supply OK	 The on-board power supply voltage must be at least 11 to 14 V.	
 GF	Common rail diesel injection (CDI), location of components	on engine side	GF07.16-P-0001-01IE
 GF		on vehicle side	GF07.16-P-0001-01IF
		The following fault code descriptions are valid for EU 3 up to  and EU 4.	
Fault code	Fault code designation	Types of fault	Fault code description
P2194	Intake port shutoff, fault code description, diagnosis CDI	The intake port flap is jamming	AD07.16-P-4000-12C
P2195	O2-sensor upstream of the catalytic converter, fault code description, diagnosis, CDI	Heater Short circuit to positive Short circuit to ground Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-64CM AD07.16-P-4000-64CMA AD07.16-P-4000-64CMB AD07.16-P-4000-64CMC

P2197	Quantity control valve, fault code description, diagnosis, CDI	Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-74CA AD07.16-P-4000-74CAB
P2198	Quantity control valve, fault code description, diagnosis, CDI	Short circuit to positive	AD07.16-P-4000-74CB
P2199	Quantity control valve, fault code description, diagnosis, CDI	Short circuit to ground	AD07.16-P-4000-74CC
P2201	CAN bus, fault code description, diagnosis, CDI	CAN message from EIS control unit missing or faulty	AD07.16-P-4000-07CA
P2203	CAN bus, fault code description, diagnosis, CDI	External quantity control by DTR control unit Toggle error Parity error Torque error Plausibility	AD07.16-P-4000-07CB AD07.16-P-4000-07CBA AD07.16-P-4000-07CBB AD07.16-P-4000-07CBC
P2204	CAN bus, fault code description, diagnosis, CDI	External quantity control by DTR control unit Toggle error Parity error Torque error Plausibility	AD07.16-P-4000-07CC AD07.16-P-4000-07CCA AD07.16-P-4000-07CCB AD07.16-P-4000-07CCC
P2209	CAN bus, fault code description, diagnosis, CDI	CAN message from ESP control unit and BAS missing or incorrect Timeout	AD07.16-P-4000-07CE








P2210	CAN bus, fault code description, diagnosis, CDI	CAN message from ESM control unit missing or incorrect Timeout	AD07.16-P-4000-07CF
P2211	CAN bus, fault code description, diagnosis, CDI	CAN message from ETC control unit missing or incorrect Timeout	AD07.16-P-4000-07CG
P2213	CAN bus, fault code description, diagnosis, CDI	CAN message from SCM control unit missing or incorrect Timeout	AD07.16-P-4000-07CH
P2214	CAN bus, fault code description, diagnosis, CDI	CAN signal faulty Timeout	AD07.16-P-4000-07CI
P2217 P2218 P2219 P2220 P2221 P2222 P2223 P2224 P2225 P2226 P2227 P2228 P2229 P2230 P2231 P2232	Control unit for hydropneumatic transmission, fault code description, diagnosis, CDI	Electronic transmission control fault 0 up to 15	AD07.16-P-4000-08C
P2233	Control unit for hydropneumatic transmission, fault code description, diagnosis, CDI	Engine emergency off signal from ETC control unit Turn off engine	AD07.16-P-4000-08CA

P2234	External quantity control, Electronic Stability Program, fault code description, diagnosis, CDI	Quantity control is physically implausible	AD07.16-P-4000-77C
P2235	External quantity control, electronic transmission control, fault code description, Diagnosis, CDI	Quantity control is physically implausible	AD07.16-P-4000-75C
P2236	CAN bus, fault code description, diagnosis, CDI	CAN message from DTR control unit missing or incorrect Toggle error Parity error Torque error Plausibility	AD07.16-P-4000-07CL AD07.16-P-4000-07CLA AD07.16-P-4000-07CLB AD07.16-P-4000-07CLC
P2239	Traction systems CAN communication failure, fault code description, diagnosis, CDI	CAN message from control unit, traction system hydraulic unit missing or incorrect Toggle error Parity error	AD07.16-P-4000-15CA AD07.16-P-4000-15CAA
P2240	CAN bus, fault code description, diagnosis, CDI	CAN message from control unit, steering angle sensor, missing or incorrect Parity error	AD07.16-P-4000-07CO
P2241	Traction systems CAN communication failure, fault code description, diagnosis, CDI	CAN message from control unit, traction system hydraulic unit missing or incorrect Timeout	AD07.16-P-4000-15CB
P2242	Traction systems CAN communication failure, fault code description, diagnosis, CDI	CAN message from control unit, traction system hydraulic unit missing or incorrect	

		Plausibility	AD07.16-P-4000-15CC
		Parity error	AD07.16-P-4000-15CCA
P2243	CAN bus, fault code description, diagnosis, CDI	CAN message from central gateway control unit missing or incorrect	
		Timeout	AD07.16-P-4000-07CR
P2244	CAN bus, fault code description, diagnosis, CDI	CAN message from control unit, instrument cluster missing or incorrect	
		Timeout	AD07.16-P-4000-07CS

AD07.16-P-4000CC	Common rail diesel injection (CDI) diagnosis, fault memory	30.7.03
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ENGINE 648.961 in MODEL 211.026
 fault codes from P2245 up to P2366

 Danger!	Risk of explosion caused by fuel igniting, risk of poisoning caused by inhaling and swallowing fuel as well as risk of injury to eyes and skin caused by contact with fuel.	No fire, sparks, open flames or smoking allowed. Only pour fuels into suitable and appropriately marked containers. Wear protective clothing when handling fuel.	AS47.00-Z-0001-01A
	Connect STAR DIAGNOSIS and read out fault memory		AD00.00-P-2000-04A
	Fuses and voltage supply OK	 The on-board power supply voltage must be at least 11 to 14 V.	
 GF	Common rail diesel injection (CDI), location of components	on engine side	GF07.16-P-0001-01IE
 GF		on vehicle side	GF07.16-P-0001-01IF
		The following fault code descriptions are valid for EU 3 up to  and EU 4.	
Fault code	Fault code designation	Types of fault	Fault code description
P2245	Data line, fault code description, diagnosis, CDI	Brake control message from alternator Communication fault	AD07.16-P-4000-78C
P2246	Alternator, fault code description, diagnosis, CDI	Alternator charge indicator/warning lamp Short circuit to positive Short circuit to ground Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-79C AD07.16-P-4000-79CAA AD07.16-P-4000-79CAB AD07.16-P-4000-

			79CAC
P2247	Data line, fault code description, diagnosis, CDI	Brake control bus driver Short circuit to positive Short circuit to ground or open circuit Thermal overload of CDI control unit	AD07.16-P-4000-78CA AD07.16-P-4000-78CAA AD07.16-P-4000-78CAB
P2248	Data line, fault code description, diagnosis, CDI	Alternator fault over brake control Alternator is defect	AD07.16-P-4000-78CB
P2249	Data line, fault code description, diagnosis, CDI	Alternator fault over brake control Alternator mechanically defect	AD07.16-P-4000-78CC
P2254	CAN bus, fault code description, diagnosis, CDI	CAN message from central gateway control unit missing or incorrect Timeout	AD07.16-P-4000-07CT
P2257	Data line, fault code description, diagnosis, CDI	Glow time control unit fault over brake control Relay is defect No supply voltage or a very low one Glow time control unit defect Current too large	AD07.16-P-4000-26CD AD07.16-P-4000-26CDA AD07.16-P-4000-26CDB AD07.16-P-4000-26CDC
P2258	CAN bus, fault code description, diagnosis, CDI	No CAN message from ETC control unit Transmission fault No signal	AD07.16-P-4000-07CN AD07.16-P-4000-07CNA








P2306	Sensor supply, fault code description, diagnosis, CDI	Sensor supply voltage 2 The signal voltage is too low or too high	AD07.16-P-4000-58CA
P2319	Analog/digital converter, fault code description, diagnosis, CDI	The limit value was fallen short of or exceeded Test pulse error Consequential fault	AD07.16-P-4000-80C AD07.16-P-4000-80CAA AD07.16-P-4000-80CAB
P2321	Control unit, fault code description, diagnosis, CDI	Plausibility watchdog: program run fault	AD07.16-P-4000-82CN
P2323	Control unit, fault code description, diagnosis, CDI	(SPI) error	AD07.16-P-4000-82CO
P2325	Control unit, fault code description, diagnosis, CDI	Injector monitor module Internal parity error Internal program error YSEL checking faulty Timeout error for at least one cylinder	AD07.16-P-4000-82CA AD07.16-P-4000-82CAD AD07.16-P-4000-82CAE AD07.16-P-4000-82CAF
P2329	Control unit, fault code description, diagnosis, CDI	(SPI) error Communication with module CJ940	AD07.16-P-4000-82CB
P2332	Sensor supply, fault code description, diagnosis, CDI	Sensor supply voltage 3 The signal voltage is too low or too high	AD07.16-P-4000-58CB
P2333	Ground speed for cruise control, fault code description, diagnosis, CDI	Wheel speed implausible	AD07.16-P-4000-84C
P2339	Variant coding, fault code description, diagnosis, CDI	EEPROM: checksum error Checksum for data faulty	AD07.16-P-4000-86C AD07.16-P-4000-86CAA

		Invalid data record selection Invalid coding	AD07.16-P-4000-86CAB AD07.16-P-4000-86CAC
P2340	Control unit, fault code description, diagnosis, CDI	Quantity correction Plausibility	AD07.16-P-4000-82CC
P2343	Trust monitoring, fault code description, diagnosis, CDI	Rpm calculation in deceleration mode	AD07.16-P-4000-81CA
P2347	CDI control unit EEPROM or incorrect coding, fault code description, diagnosis, CDI	MT has been coded as AT AT has been coded as MT Fault when writing the EEPROM No CAN reception during coding	AD07.16-P-4000-32CB AD07.16-P-4000-32CBA AD07.16-P-4000-32CBB AD07.16-P-4000-32CBC
P2350	Control unit, fault code description, diagnosis, CDI	The voltage supply is too large	AD07.16-P-4000-82CE
P2351	Control unit, fault code description, diagnosis, CDI	The voltage supply is too small	AD07.16-P-4000-82CF
P2352	Number of injection, fault code description, diagnosis, CDI	Limited number of injections due to excessively high volumetric efficiency Limited number of injections due to excessively low injection quantity Limited number of injections due to incorrect software Limited number of injections due to the internal temperature of the control unit	AD07.16-P-4000-87C AD07.16-P-4000-87CAA AD07.16-P-4000-87CAB AD07.16-P-4000-87CAC
P2353	Control unit, fault code description,	Module for oxygen sensor	AD07.16-P-4000-82CG

	diagnosis, CDI	Plausibility	
P2355	Exhaust gas recirculation control, fault code description, diagnosis, CDI	The air mass is too large	AD07.16-P-4000-88CAA
P2356	Control unit, fault code description, diagnosis, CDI	Recovery error	AD07.16-P-4000-82CI
P2357	Control unit, fault code description, diagnosis, CDI	Recovery error	AD07.16-P-4000-82CJ
P2358	Control unit, fault code description, diagnosis, CDI	Recovery error	AD07.16-P-4000-82CK
P2359	Boost pressure control, fault code description, diagnosis, CDI	Too low boost pressure Boost pressure too high	AD07.16-P-4000-23C AD07.16-P-4000-23CAA
P2364	Control unit, fault code description, diagnosis, CDI	Control unit programming Control unit memory is defective Code or data faulty Compatibility error between code and data General error	AD07.16-P-4000-82CT AD07.16-P-4000-82CTA AD07.16-P-4000-82CTB AD07.16-P-4000-82CTC
P2366	Control unit, fault code description, diagnosis, CDI	SPI-module upstream of TWC: supply voltage too low	AD07.16-P-4000-82CL

AD07.16-P-4000CD	Common rail diesel injection (CDI) diagnosis, fault memory	30.7.03
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ENGINE 648.961 in MODEL 211.026
 fault codes from P2500 up to P2670

 Danger!	Risk of explosion caused by fuel igniting, risk of poisoning caused by inhaling and swallowing fuel as well as risk of injury to eyes and skin caused by contact with fuel.	No fire, sparks, open flames or smoking allowed. Only pour fuels into suitable and appropriately marked containers. Wear protective clothing when handling fuel.	AS47.00-Z-0001-01A
	Connect STAR DIAGNOSIS and read out fault memory		AD00.00-P-2000-04A
	Fuses and voltage supply OK	 The on-board power supply voltage must be at least 11 to 14 V.	
 GF	Common rail diesel injection (CDI), location of components	on engine side	GF07.16-P-0001-01IE
 GF		on vehicle side	GF07.16-P-0001-01IF
		The following fault code descriptions are valid for EU 3 up to  and EU 4.	
Fault code	Fault code designation	Types of fault	Fault code description
P2500	Pressure regulator valve, fault code description, diagnosis, CDI	Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-13CB AD07.16-P-4000-13CBA
P2501	Pressure regulator valve, fault code description, diagnosis, CDI	Short circuit to positive	AD07.16-P-4000-13CC
P2502	Pressure regulator valve, fault code description, diagnosis, CDI	Short circuit to ground	AD07.16-P-4000-13CD
P2509	Heater booster, fault code description, diagnosis, CDI	Positioner announces a fault	AD07.16-P-4000-45CAD
P2510	Charge pressure positioner, fault code description, diagnosis, CDI	Positioner announces a fault Positioner announces fault Y	AD07.16-P-4000-89C AD07.16-P-4000-89CAA

P2511	Exhaust gas recirculation positioner, fault code description, diagnosis, CDI	Positioner announces a fault	AD07.16-P-4000-47C
P2512	Throttle valve actuator, fault code description, diagnosis, CDI	Positioner announces a fault Positioner announces fault Y	AD07.16-P-4000-90C AD07.16-P-4000-90CAA
P2513	Intake port shutoff, fault code description, diagnosis, CDI	Positioner announces a fault Positioner announces fault Y	AD07.16-P-4000-12CA AD07.16-P-4000-12CAA
P2514	Crankcase, ventilation heater, fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Signal line interrupted Excess temperature in engine control unit	AD07.16-P-4000-91C AD07.16-P-4000-91CAA AD07.16-P-4000-91CAB AD07.16-P-4000-91CAC
P2518	Electric suction-type fan (engine / A/C), fault code description, diagnosis, CDI	Positioner announces a fault Positioner announces fault Y	AD07.16-P-4000-35CA AD07.16-P-4000-35CAD
P2521	Starter control, fault code description, diagnosis, CDI	Start attempt without starter actuation	AD07.16-P-4000-18CC
P2526	Charge pressure positioner, fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-89CA AD07.16-P-4000-89CAB AD07.16-P-4000-89CAC AD07.16-P-4000-89CAD
P2527	Exhaust gas recirculation positioner, fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Signal line interrupted	AD07.16-P-4000-47CA AD07.16-P-4000-47CAB AD07.16-P-4000-47CAC

		Thermal overload of CDI control unit	AD07.16-P-4000-47CAD
P2529	Throttle valve actuator, fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Signal line interrupted Thermal overload of CDI control unit	AD07.16-P-4000-90CA AD07.16-P-4000-90CAB AD07.16-P-4000-90CAC AD07.16-P-4000-90CAD
P2530	Intake port shutoff, fault code description, diagnosis CDI	Short circuit to positive Short circuit to ground Signal line interrupted Excess temperature in engine control unit	AD07.16-P-4000-12CB AD07.16-P-4000-12CBA AD07.16-P-4000-12CBB AD07.16-P-4000-12CBC
P2537	Glow output stage, fault code description, diagnosis, CDI	Short circuit to positive Short circuit to ground Diagnosis error	AD07.16-P-4000-26C AD07.16-P-4000-26CAA AD07.16-P-4000-26CAB
P2538	Glow output stage, fault code description, diagnosis, CDI	Glow time control unit defect Communication fault Excess temperature	AD07.16-P-4000-26CA AD07.16-P-4000-26CAC AD07.16-P-4000-26CAD
P2607	Exhaust gas temperature sensor upstream of TWC, fault code description, diagnosis, CDI	Excessive variation between actual and specified temperatures	AD07.16-P-4000-52CB
P2608	Exhaust gas temperature sensor downstream of TWC, fault code description, diagnosis, CDI	Excessive variation between actual and specified temperatures	AD07.16-P-4000-51CB

P2616	Exhaust back pressure sensor, fault code description, diagnosis, CDI	The air mass is too small	AD07.16-P-4000-69CAB
P2617	Exhaust gas recirculation control, fault code description, Diagnosis, CDI	The air mass is too small The air mass is too large	AD07.16-P-4000-88CA AD07.16-P-4000-88CAB
P2625	Fuel temperature sensor, fault code description, diagnosis, CDI	Plausibility	AD07.16-P-4000-53CA
P2632	Monitoring of turbocharger, fault code description, diagnosis, CDI	The pressure difference between exhaust back pressure sensor and differential pressure sensor upstream and downstream of the turbocharger is implausible	AD07.16-P-4000-97C
P2634	Rail pressure monitoring, quantity control valve, fault code description, diagnosis, CDI	Rail pressure deviation due to air forming in the system when the fuel tank is run empty	AD07.16-P-4000-60CE
P2635	Rail pressure monitoring, quantity control valve, fault code description, diagnosis, CDI	Rail pressure deviation too high compared with fuel flow rate Air forming in the system when the fuel tank is run empty	AD07.16-P-4000-60CF
P2636	Rail pressure monitoring, quantity control valve, fault code description, diagnosis, CDI	Rail pressure too low due to air forming in the system when the fuel tank is run empty	AD07.16-P-4000-60CG
P2637	Rail pressure monitoring, pressure regulator valve, fault code description, diagnosis, CDI	Rail pressure deviation due to air forming in the system when the fuel tank is run empty	AD07.16-P-4000-61CG
P2638	Rail pressure monitoring, pressure regulator valve, fault code description, diagnosis, CDI	Rail pressure deviation due to air forming in the system when the fuel tank is run empty	AD07.16-P-4000-61CH
P2639	Rail pressure monitoring, pressure regulator valve, fault code description, diagnosis, CDI	Rail pressure too low due to air forming in the system when the fuel tank is run empty	AD07.16-P-4000-61CI
P2640	Rail pressure monitoring, pressure regulator valve, fault code description, diagnosis, CDI	The measured pressure is implausible in relation to the power consumption of the pressure regulator valve	AD07.16-P-4000-61CJ
P2641	Exhaust back pressure sensor, fault code description, diagnosis, CDI	Plausibility	AD07.16-P-4000-69CB

P2643	Rail pressure monitoring, quantity control valve, fault code description, diagnosis, CDI	Specified value of quantity control valve implausible during deceleration when the fuel tank is run empty	AD07.16-P-4000-60CH
P2670	Outside air temperature sensor, fault code description, diagnosis, CDI	Check outside air temperature sensor and intake air temperature sensor Plausibility	AD07.16-P-4000-55CB