F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Dashboard	B9001	ENGINE GROUND INPUT	ADC reading error	BELOW MIN. THRESHOLD	Error detected in KEY-ON condition.
Dashboard	B9002	OIL PRESSURE SENSOR	An error was detected on the engine oil pressure sensor		
Dashboard	B9003	OIL PRESSURE SENSOR	An error was detected on the engine oil pressure sensor		
Dashboard	B9004	ALTERNATOR FAILURE	The ECU detected a mulfunction of the alternator		
Dashboard	B9005	SUSPENSIONS FAILURE	A FAIL STATUS message was detected by the SUSPENSION ECU		
Dashboard	B9006	STATISTICAL DATA CORRUPTED	The ECU could not detect some of the statistical data	INVALID SIGNAL	
Dashboard	B9007	OIL PRESSURE IN ALARM CONDITION	An error is detected when the oil pressure exceeds the minimum limit		
Dashboard	B9008	OIL TEMPERATURE IN ALARM CONDITION	The error was caused by the reading of an oil temperature value above the alarm threshold.		
Dashboard	B9009	WATER TEMPERATURE IN ALARM CONDITION	The error was caused by the reading of a water temperature value above the alarm threshold.		
Dashboard	B900A	CHECK ENGINE FAILURE	An error was detected in the engine		
Dashboard	B900B	SLOW DOWN FAILURE	An error was detected which causes the slowdown warning light to turn on	INVALID SIGNAL	The error is acknowledged when the KASL or KASL_blink active signal is transmitted via CAN line
Dashboard	B900C	BRAKE FAILURE	A malfunction was detected in the brake system	INVALID SIGNAL	The error is always detected at key ON. The error is acknowledged if at least one of the following conditions occurs: - Brake pad wear input active (low) - No ASR message received from CAN line. - L_EBV active signal received by CAN line
Dashboard	B900D	LUGGAGE COMPARTMENT OUTPUT	A short circuit was detected in the luggage compartment lid output		
Dashboard	B900E	REAR FOG LIGHT OUTPUT	A short circuit was detected in the rear fog light activation output		
Dashboard	B900F	HAZARD LIGHT OUTPUT	A short circuit was detected on the activation output for the hazard flashing lights (four direction indicators)		
Dashboard	B9010	HEATED REAR WINDOW OUTPUT	A short circuit was detected on the activation output for the heated rear window		
Dashboard	B9011	LUGGAGE COMP. LOCK OUTPUT	A short circuit was detected on the luggage compartment lock output		
Dashboard	B9012	OUTPUTS FOR WINDSCREEN WIPER TIMING AND RESETTING	A short circuit was detected on the windscreen wiper timed output or on the output for the windscreen wiper position resetting		
Dashboard	B9013	BATTERY VOLTAGE	Battery Voltage too low.		

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Dashboard	B9014	POWER OUTPUT FOR KAVLICO OIL PRESSURE SENSOR	A short circuit was detected on the KAVLICO oil pressure sensor output	GND SHORT CIRCUIT	Check the wiring for proper working condition and check Pin 7 (20-way connector) connection
Dashboard	B9015	EXTERNAL EEPROM IN ERROR CONDITION	An error was detected on the internal memory	INVALID SIGNAL	Replace the instrument panel
Dashboard	B9016	EEPROM CORRUPTED	Internal EEProm faulty	INVALID SIGNAL	Replace the instrument panel
Dashboard	UD601	NO CAN MESSAGES RECEIVED FROM ESP ECU	Communication error with brake ECU (NFR)		
Dashboard	UD602	NO CAN MESSAGES RECEIVED FROM F1 GEARBOX	No messages from the gearbox ECU on the CAN C line.		
Dashboard	UD603	NO CAN MESSAGES RECEIVED FROM MOTRONIC ECU	No messages from the Engine Check ECU on the CAN C line.		
Dashboard	UD604	NO CAN MESSAGES RECEIVED FROM TPMS ECU	The instrument panel does not receive messages from the tyre pressure ECU		
Dashboard	UD605	NO CAN MESSAGES RECEIVED FROM DIFFERENTIAL ECU	The instrument panel does not receive messages from the differential ECU		
Dashboard	UD606	NO CAN MESSAGES RECEIVED FROM NVO ECU	The instrument panel does not receive messages from the steering wheel ECU		
Dashboard	UD607	TRANSMISSION ERROR ON CanC	A communication error was detected on the C-CAN line due to an unsuccessful transmission	Communication Error	
Dashboard	UD608	TRANSMISSION ERROR ON CanB	A communication error was detected on B-CAN line due to an unsuccessful transmission	Communication Error	
Differential	6001	BATTERY VOLTAGE < 5V	A battery voltage below 5V has been detected	BELOW MIN. THRESHOLD	The error is detected if the battery voltage remains below 5V for longer than 30ms
Differential	6015	MAGNETIC VALVE CONNECTION	A malfunction was detected on the magnetic valve connection regulating the differential torque.		
Differential	6024	BUS CAN OFF	No CAN message received		
Differential	6002	BATTERY VOLTAGE <10	A battery voltage below 10V has been detected	BELOW MIN. THRESHOLD	The error is detected if the battery voltage remains below 10V for longer than 200ms
Differential	6003	BATTERY VOLTAGE>16V	A battery voltage above 16V has been detected	OVER MAXIMUM THRESHOLD	The error is detected if the battery voltage is above 16V for longer than 200ms
Differential	6004	KL15 PLAUSIBILITY	An error was detected on the key-on signal presence	General plausibility	The error is always detected
Differential	6005	RESET DUE TO SUDDEN POWER SUPPLY SHORTAGE	Reset due to lack of power supply		
Differential	6006	PRESSURE SENSOR	An error was detected on the pressure sensor signal	Open circuit/Short circuit to GND	An error is detected when the sensor signal is below 0.2V

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Differential	6007	PUMP RELAY CONNECTION	A malfunction was detected on the pump relay connection	Overload or Below threshold	The error is detected when the circuit which drives the pump is overloaded or when the pump's diagnostic voltage (measured by the ECU) is below 1.5V
Differential	6008	SYSTEM RECHARGE	An error was detected during the hydraulic circuit re-charging phase		
Differential	6009	LOW SYSTEM PRESSURE	The system pressure is below the minimum limit	BELOW MIN. THRESHOLD	The error is detected when the system pressure is below 40 bar.
Differential	6010	HIGH SYSTEM PRESSURE	The system pressure is above the maximum limit	OVER MAXIMUM THRESHOLD	The error is detected when the system pressure is above 57 bar.
Differential	6011	EXTERNAL ACCUMULATOR SYSTEM	An error was detected on the gearbox system.		
Differential	6012	PRESSURE LOCK SENSOR	An error was detected on the pressure sensor for the differential locking	GND SHORT CIRCUIT	The error is detected when the diagnostic voltage (measured by the ECU) is below 0.2V
Differential	6013	THE VOLTAGE OF THE ZERO LOCK SENSOR IS OUT OF RANGE	An out-of-range voltage value was detected on the differential pressure sensor		
Differential	6014	OVERHEATING MAGNETIC VALVE'S DRIVER DEACTIVATION	An error was detected on the overheating magnetic valve		
Differential	6016	PLAUSIBILITY OF MAGNETIC VALVE CURRENT AND LOCK PRESSURE	An error was detected on the magnetic valve current and on the differential locking pressure	General plausibility	
Differential	6017	CHECK: PRESSURE DEVIATION TOO HIGH	An error was detected due to a high pressure difference	OVER MAXIMUM THRESHOLD	The error is set when the difference between the pressure requested by the control and the pressure measured in the system exceeds 1 bar
Differential	6018	CLUTCH SYSTEM MODERATE OVERHEAT	Clutch system slightly overheated		
Differential	6019	CLUTCH SYSTEM HIGH OVERHEAT	Clutch system highly overheated		
Differential	6020	ECU SUDDEN RESET	The ECU was reset	Reset	The error can occur when the system is started
Differential	6021	ECU ERROR	A checksum error or a watchdog problem was detected on the memory (RAM or ROM).	INTERNAL ERROR	Error detected in KEY-ON condition.
Differential	6022	EEPROM ERROR	An error was detected on the EEPROM: the checksum is not correct	INTERNAL ERROR	The error can always be validated
Differential	6023	ERROR: ECU TEMPERATURE MEASUREMENT	A power supply error was detected in the ECU internal temperature reading		
Differential	6025	N_MOT E TABSNM	Problem in the reception of CAN messages N_MOT and TABSMN: signals timeout, signals out of range or invalid		

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Differential	6026	VRD_LH_ASR E VRD_RH_ASR	Problem receiving ASR messages: signals timeout, signals out of range or invalid		
Differential	6027	KUP2	Problem in the reception of the KUP2 message: signals timeout, signals out of range or invalid		
Differential	6028	LOW PRIORITY CAN SIGNALS MISSING	Problem in the reception of low priority CAN messages: signals timeout, signals out of range or invalid		
Differential	6029	HIGH PRIORITY CAN SIGNALS MISSING	Problem in the reception of high priority CAN messages: signals timeout, signals out of range or invalid		
Differential	6030	CAN SIGNALS MISSING	Problem in the reception of CAN messages: signals timeout, signals out of range or invalid		
Differential	6031	INCOMPLETE VEHICLE CODING	Problem in the acknowledgement of the vehicle code, which is incomplete or wrong.	Programming error	Error detected in KEY-ON condition.
Motronic ME 7.1.1 - LH	P0030	RH FRONT LAMBDA SENSOR	Heating circuit malfunction	NO SIGNAL	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0031	RH FRONT LAMBDA SENSOR	Heating circuit malfunction	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0032	RH FRONT LAMBDA SENSOR	Heating circuit malfunction	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0036	RH REAR LAMBDA SENSOR	Heating circuit malfunction	NO SIGNAL	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0037	RH REAR LAMBDA SENSOR	Heating circuit malfunction	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0038	RH REAR LAMBDA SENSOR	Heating circuit malfunction	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0040	RH-B AND LH-B FRONT LAMBDA SENSORS	RH and LH front lambda sensor connections inverted	INVERTED CONNECTION	Check the electric system connection on the component.
Motronic ME 7.1.1 - LH	P0041	RH-B AND LH-B REAR LAMBDA SENSORS	RH and LH front lambda sensor connections inverted	INVERTED CONNECTION	Check the electric system connection on the component.
Motronic ME 7.1.1 - LH	P0050	LH FRONT LAMBDA SENSOR	Heating circuit malfunction	NO SIGNAL	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0051	LH FRONT LAMBDA SENSOR	Heating circuit malfunction	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0052	LH FRONT LAMBDA SENSOR	Heating circuit malfunction	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0056	LH REAR LAMBDA SENSOR	Heating circuit malfunction	NO SIGNAL	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0057	LH REAR LAMBDA SENSOR	Heating circuit malfunction	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0058	LH REAR LAMBDA SENSOR	Heating circuit malfunction	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0071	AIR TEMPERATURE SENSOR	Validity error in ambient temperature data received from CAN network.	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0101	AIR FLOW METER	Air flow value does not correspond to throttle position and engine rpm.	Value not plausible	Possible false contact or hot film sensor faulty.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0102	AIR FLOW METER	Intake air flow rate minimum value does not correspond to engine operational values.	C.C. to Ground or air flow minimum value reached.	Check the following values in the parameters environment: Throttle position, Engine rpm.
Motronic ME 7.1.1 - LH	P0103	AIR FLOW METER	Intake air flow rate minimum value does not correspond to engine operational values.	C.A./C.C. to VBatt or air flow maximum value reached.	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - LH	P0106	BAROMETRIC PRESSURE	Malfunction of air flow meter calculating barometric pressure to optimise high altitude combustion (low oxygen intake).	Value calculated not plausible	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - LH	P0107	BAROMETRIC PRESSURE	Malfunction of air flow meter calculating barometric pressure to optimise high altitude combustion (low oxygen intake).	Calculated minimum value or SC to GND	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - LH	P0108	BAROMETRIC PRESSURE	Malfunction of air flow meter calculating barometric pressure to optimise high altitude combustion (low oxygen intake).	Maximum value calculated or SC to Vbatt	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - LH	P0110	INTAKE AIR TEMPERATURE	Malfunction due to the air flow meter which calculates the intake air temperature to optimize combustion.	Malfunction	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - LH	P0111	INTAKE AIR TEMPERATURE	Malfunction due to the air flow meter which calculates the intake air temperature to optimize combustion.	Value calculated not plausible	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - LH	P0112	INTAKE AIR TEMPERATURE	Malfunction due to the air flow meter which calculates the intake air temperature to optimize combustion.	Calculated minimum value	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - LH	P0113	INTAKE AIR TEMPERATURE	Malfunction due to the air flow meter which calculates the intake air temperature to optimize combustion.	Calculated maximum value	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - LH	P0115	WATER TEMPERATURE SENSOR	Probable false contact. A temporary lack of signal was detected.	Intermittent contact	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0116	WATER TEMPERATURE SENSOR	Signal not plausible. A water temperature value inconsistent with the vehicle conditions was detected (e.g. engine running time).	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0117	WATER TEMPERATURE SENSOR	Signal not plausible, probable false contact. A water temperature value inconsistent with the vehicle conditions was detected (e.g. engine running time).	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0118	WATER TEMPERATURE SENSOR	Signal not plausible, probable false contact. A water temperature value inconsistent with the vehicle conditions was detected (e.g. engine running time).	VBATT SHORT CIRCUIT	Wiring / component intactness check

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0121	THROTTLE POSITION SENSOR 1	System error generally associated with another error of potentiometer 1 on the throttle body. Reference parameters for error validation: engine rpm, intake air flow rate	Value not plausible	Check the following values in the parameters environment: Engine rpm,Intake air flow rate
Motronic ME 7.1.1 - LH	P0122	THROTTLE POSITION SENSOR 1	Potentiometer's output signal value low	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0123	THROTTLE POSITION SENSOR 1	Potentiometer's output signal value high	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0130	RH FRONT LAMBDA SENSOR	Probable false contact. A temporary lack of signal was detected.	SPORADIC CONTACT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0132	FRONT LAMBDA SENSOR	Maximum value reached: possible O.C. or S.C. to Vbatt.	MAXIMUM VALUE	During the active diagnosis, check the lambda sensor heating. Check that the resistance value between pin 3 and pin 4 on the connector is equal to 3.2 Ohm
Motronic ME 7.1.1 - LH	P0133	RH FRONT LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Slow response	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - LH	P0135	RH FRONT LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - LH	P0136	RH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - LH	P0137	RH REAR LAMBDA SENSOR	Adjustment voltage value low	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0138	RH REAR LAMBDA SENSOR	Adjustment voltage value high	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0139	RH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Slow response	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - LH	P0140	RH REAR LAMBDA SENSOR	No Lambda sensor activity.	Not activity detected	Possible ageing / damage to lambda sensor.
Motronic ME 7.1.1 - LH	P0141	RH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - LH	P0150	RH REAR LAMBDA SENSOR	Intermittent sensor signal.	Intermittent contact	Possible false contact. Check component connection.
Motronic ME 7.1.1 - LH	P0152	FRONT LAMBDA SENSOR	Maximum value reached: possible O.C. or S.C. to Vbatt. In active diagnosis mode, check the lambda sensor heating. Check that the resistance value between pin 3 and pin 4 on the connector is equal to 3.2 Ohm The maximum value reached error	Voltage value high	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0153	LH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Slow response	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0155	LH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - LH	P0156	LH REAR LAMBDA SENSOR	The lambda sensor does not oscillate properly during adjustment. This may be due to an aged sensor or to external interference factors (combustion): injectors, coils, air intakes etc.	Value not plausible	Component intactness check
Motronic ME 7.1.1 - LH	P0157	LH REAR LAMBDA SENSOR	Adjustment voltage value low	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0158	LH REAR LAMBDA SENSOR	Adjustment voltage value high	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0159	LH REAR LAMBDA SENSOR	The lambda sensor does not oscillate properly during adjustment. This may be due to an aged sensor or to external interference factors (combustion): injectors, coils, air intakes etc.	Slow response	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - LH	P0160	LH REAR LAMBDA SENSOR	No Lambda sensor activity.	NO OPERATIONS	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - LH	P0161	LH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - LH	P0170	FUEL-AIR MIXTURE RATIO SELF-LEARNING, RH BANK	Incorrect fuel self-learning.	Value not plausible	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P0171	FUEL-AIR MIXTURE RATIO SELF-LEARNING, RH BANK	Incorrect fuel self-learning.	Lean fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P0172	FUEL-AIR MIXTURE RATIO SELF-LEARNING, RH BANK	Incorrect fuel self-learning.	Rich fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P0173	FUEL-AIR MIXTURE RATIO SELF-LEARNING, LH BANK	Incorrect fuel self-learning.	Value not plausible	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P0174	FUEL-AIR MIXTURE RATIO SELF-LEARNING, LH BANK	Incorrect fuel self-learning.	Lean fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0175	FUEL-AIR MIXTURE RATIO SELF-LEARNING, LH BANK	Incorrect fuel self-learning.	Rich fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P0201	CYLINDER 1 INJECTOR	Malfunction detected on cylinder 1 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - LH	P0202	CYLINDER 2 INJECTOR	Malfunction detected on cylinder 2 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - LH	P0203	CYLINDER 3 INJECTOR	Malfunction detected on cylinder 3 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - LH	P0204	CYLINDER 4 INJECTOR	Malfunction detected on cylinder 4 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - LH	P0205	CYLINDER 5 INJECTOR	Malfunction detected on cylinder 5 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - LH	P0206	CYLINDER 6 INJECTOR	Malfunction detected on cylinder 6 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - LH	P0207	CYLINDER 7 INJECTOR	Malfunction detected on cylinder 7 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - LH	P0208	CYLINDER 8 INJECTOR	Malfunction detected on cylinder 8 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - LH	P0219	ENGINE REVOL.	Rpm limiter setting exceeded.	Maximum threshold exceeded	Check that the engine has not been seriously damaged.
Motronic ME 7.1.1 - LH	P0221	THROTTLE POSITION SENSOR 2	System error generally associated with another error of potentiometer 2 on the throttle body. Reference parameters for error validation: engine rpm, intake air flow rate	Value not plausible	Check the following values in the parameters environment: Engine rpm,Intake air flow rate
Motronic ME 7.1.1 - LH	P0222	THROTTLE POSITION SENSOR 2	Potentiometer's output signal value low	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0223	THROTTLE POSITION SENSOR 2	Potentiometer's output signal value high	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0230	FUEL PUMP RELAY	Error in the fuel pump relay control circuit.	VBATT SHORT CIRCUIT	Check possible false contact or short circuit to Vbatt of the pump relay control contact.
Motronic ME 7.1.1 - LH	P0261	CYLINDER 1 INJECTOR	Malfunction detected on cylinder 1 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 1 injector.
Motronic ME 7.1.1 - LH	P0262	CYLINDER 1 INJECTOR	Malfunction detected on cylinder 1 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 1 injector.
Motronic ME 7.1.1 - LH	P0264	CYLINDER 2 INJECTOR	Malfunction detected on cylinder 2 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 2 injector.
Motronic ME 7.1.1 - LH	P0265	CYLINDER 2 INJECTOR	Malfunction detected on cylinder 2 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 2 injector.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0267	CYLINDER 3 INJECTOR	Malfunction detected on cylinder 3 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 3 injector.
Motronic ME 7.1.1 - LH	P0268	CYLINDER 3 INJECTOR	Malfunction detected on cylinder 3 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 3 injector.
Motronic ME 7.1.1 - LH	P0270	CYLINDER 4 INJECTOR	Malfunction detected on cylinder 4 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 4 injector.
Motronic ME 7.1.1 - LH	P0271	CYLINDER 4 INJECTOR	Malfunction detected on cylinder 4 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 4 injector.
Motronic ME 7.1.1 - LH	P0273	CYLINDER 5 INJECTOR	Malfunction detected on cylinder 5 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 5 injector.
Motronic ME 7.1.1 - LH	P0274	CYLINDER 5 INJECTOR	Malfunction detected on cylinder 5 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 5 injector.
Motronic ME 7.1.1 - LH	P0276	CYLINDER 6 INJECTOR	Malfunction detected on cylinder 6 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 6 injector.
Motronic ME 7.1.1 - LH	P0277	CYLINDER 6 INJECTOR	Malfunction detected on cylinder 6 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 6 injector.
Motronic ME 7.1.1 - LH	P0279	CYLINDER 7 INJECTOR	Malfunction detected on cylinder 7 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 7 injector.
Motronic ME 7.1.1 - LH	P0280	CYLINDER 7 INJECTOR	Malfunction detected on cylinder 7 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 7 injector.
Motronic ME 7.1.1 - LH	P0282	CYLINDER 8 INJECTOR	Malfunction detected on cylinder 8 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 8 injector.
Motronic ME 7.1.1 - LH	P0283	CYLINDER 8 INJECTOR	Malfunction detected on cylinder 8 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 8 injector.
Motronic ME 7.1.1 - LH	P0300	INJECTION/IGNITION SYSTEM	Generic ignition/injection system error.	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0301	CYLINDER 1 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - LH	P0302	CYLINDER 2 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - LH	P0303	CYLINDER 3 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - LH	P0304	CYLINDER 4 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - LH	P0305	CYLINDER 5 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - LH	P0306	CYLINDER 6 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0307	CYLINDER 7 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - LH	P0308	CYLINDER 8 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - LH	P0327	RH DETONATION SENSOR 1	Minimum plausible value measured	GND SHORT CIRCUIT	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P0328	RH DETONATION SENSOR 1	Maximum plausible value measured	VBATT OPEN CIRCUIT/SHORT CIRCUIT	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P0332	RH DETONATION SENSOR 2	Minimum plausible value measured	GND SHORT CIRCUIT	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P0333	RH DETONATION SENSOR 2	Maximum plausible value measured	VBATT OPEN CIRCUIT/SHORT CIRCUIT	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P0335	ENGINE RPM SENSOR A	Probable false contact or toothed wheel gap, revolution sensor uncorrect	SPORADIC CONTACT	Check parameters using toothed wheel Diagnosis Check Tester (conformity and gap between sensor and toothed wheel). Check drive shaft and camshaft signals.
Motronic ME 7.1.1 - LH	P0336	ENGINE RPM SENSOR A	Derivative for engine rpm out of range signal detected	SPORADIC CONTACT	Check parameters using toothed wheel Diagnosis Check Tester (conformity and gap between sensor and toothed wheel). Check drive shaft and camshaft signals.
Motronic ME 7.1.1 - LH	P0337	ENGINE RPM SENSOR A	Probable ground shortcircuit or toothed wheel gap, revolutions sensor uncorrect	MINIMUM VALUE	Toothed wheel checkout (compliance and gap among sensor and toothed wheel). Check camshaft and crankshaft
Motronic ME 7.1.1 - LH	P0338	ENGINE RPM SENSOR A	Probable ground shortcircuit or toothed wheel gap, revolutions sensor uncorrect	MAXIMUM VALUE	Check parameters using toothed wheel Diagnosis Check Tester (conformity and gap between sensor and toothed wheel). Check drive shaft and camshaft signals.
Motronic ME 7.1.1 - LH	P0340	RH STAGE SENSOR	Lack of timing sensor signal detected	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0341	RH STAGE SENSOR	Signal inconsistent conditions	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0342	RH STAGE SENSOR	Signal value low, below threshold	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0343	RH STAGE SENSOR	Signal value high, above threshold	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0345	LH STAGE SENSOR	Lack of timing sensor signal detected	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0346	LH STAGE SENSOR	Signal inconsistent conditions	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0347	LH STAGE SENSOR	Signal value low, below threshold	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0348	LH STAGE SENSOR	Signal value high, above threshold	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0351	CYLINDER 1 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - LH	P0352	CYLINDER 2 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - LH	P0353	CYLINDER 3 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - LH	P0354	CYLINDER 4 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0355	CYLINDER 5 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - LH	P0356	CYLINDER 6 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - LH	P0357	CYLINDER 7 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - LH	P0358	CYLINDER 8 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - LH	P0385	ENGINE RPM SENSOR B	Sporadic malfunction of the engine rpm signal	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0386	ENGINE RPM SENSOR B	Sporadic malfunction of the engine rpm signal	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0387	ENGINE RPM SENSOR B	Sporadic malfunction of the engine rpm signal	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0388	ENGINE RPM SENSOR B	Sporadic malfunction of the engine rpm signal	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0411	SECONDARY AIR SYSTEM	The error can be validated only during the air pump operation. (see manual)If it is associated to another error on the secondary air solenoid valve, check the efficiency of the entire system.	Insufficient oxygen: Value read low	Wiring and system intactness check.
Motronic ME 7.1.1 - LH	P0412	SECONDARY SOLENOID VALVE CONTROL CIRCUIT	Error during secondary air solenoid valve activation.	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0413	SECONDARY SOLENOID VALVE CONTROL CIRCUIT	Error during secondary air solenoid valve activation.	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0414	SECONDARY SOLENOID VALVE CONTROL CIRCUIT	Error during secondary air solenoid valve activation.	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0421	RH CATALYTIC CONVERTER HEATING	An insufficient temperature for optimizing the catalytic converter operation has been detected	Minimum threshold exceeded	System intactness and temperature sensor check.
Motronic ME 7.1.1 - LH	P0426	RH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Catalytic convertor temperature signal inconsistent with the vehicle driving conditions (e.g. engine running time and temp. H2O>90 ?C)	Intermittent contact	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0427	RH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Temperature value below minimum threshold with vehicle in steady running conditions	C.C. to ground or minimum value reached	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0428	RH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Temperature value above maximum threshold with vehicle in steady running conditions, check that the catalytic converter has not actually overheated	C.C. to VBATT or maximum value	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0431	LH CATALYTIC CONVERTOR HEATING	An insufficient temperature for optimizing the catalytic converter operation has been detected	Minimum threshold exceeded	System intactness and temperature sensor check.
Motronic ME 7.1.1 - LH	P0436	LH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Catalytic convertor temperature signal inconsistent with the vehicle driving conditions (e.g. engine running time and temp. H2O>90 ?C)	Intermittent contact	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0437	LH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Temperature value below minimum threshold with vehicle in steady running conditions	C.C. to ground or minimum value reached	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0438	LH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Temperature value above maximum threshold with vehicle in steady running conditions, check that the catalytic converter has not actually overheated	C.C. to VBATT or maximum value	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0440	ANTI-EVAPORATION CONTROL SYSTEM	High vacuum value detected inside the fuel tank.The error can be validated only during the anti-evaporation test activation.	Maximum threshold exceeded	Checkout of possible losses within anti-evaporation circuit. Check of fuel pressure sensor. Check of solenoid valve cable.
Motronic ME 7.1.1 - LH	P0442	ANTI-EVAPORATION CONTROL SYSTEM	No pressure increase measured within the fuel tank. (Major leakage)The error can be validated only while running the anti-evaporation test.	Tank leakage	Checkout of possible losses within anti-evaporation circuit. Check of fuel pressure sensor. Check of solenoid valve cable.
Motronic ME 7.1.1 - LH	P0443	ANTI-EVAPORATION SYSTEM CONTROL SOLENOID VALVE	Short circuit to Vbatt detected on the solenoid valve control drive.The error can be validated only while running the anti-evaporation test.	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0444	ANTI-EVAPORATION SYSTEM CONTROL SOLENOID VALVE	Malfunction found in the anti-evaporation system control circuit.	OPEN CIRCUIT	Check for possible cut-outs in the canister purge valve control cable.
Motronic ME 7.1.1 - LH	P0445	ANTI-EVAPORATION SYSTEM CONTROL SOLENOID VALVE	Malfunction found in the anti-evaporation system control circuit.	GND SHORT CIRCUIT	Check for possible short circuit to ground of the canister purge valve control cable.
Motronic ME 7.1.1 - LH	P0446	CANISTER AIR INTAKE VALVE CONTROL CIRCUIT	Short circuit to Vbatt on the solenoid valve control drive. The error can be validated only during the tank leakage test activation.	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0447	CANISTER AIR INTAKE VALVE CONTROL CIRCUIT	Short circuit to Vbatt on the solenoid valve control drive. The error can be validated only during the tank leakage test activation.	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0448	CANISTER AIR INTAKE VALVE CONTROL CIRCUIT	Short circuit to Vbatt on the solenoid valve control drive. The error can be validated only during the tank leakage test activation.	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0449	CANISTER AIR INTAKE VALVE CONTROL CIRCUIT	Short circuit to Vbatt on the solenoid valve control drive. The error can be validated only during the tank leakage test activation.	SPORADIC CONTACT	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0450	TANK PRESSURE SENSOR	Malfunction found on the fuel tank pressure sensor. Possible false contact or sensor damaged.	SPORADIC CONTACT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0451	TANK PRESSURE SENSOR	Malfunction in the fuel tank pressure sensor. Inconsistent value	Value not plausible	Using the Tester, run the leakage diagnosis cycle and check the result. Check that the parameters read are consistent with all the circuit lines and with the system components. Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P0452	TANK PRESSURE SENSOR	Malfunction found on the fuel tank pressure sensor. The value read is equal to the maximum acceptable threshold.	C.C. to ground or minimum value reached	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0453	TANK PRESSURE SENSOR	Malfunction found on the fuel tank pressure sensor. The value read is equal to the maximum acceptable threshold.	C.C. to VBATT or maximum value	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0455	ANTI-EVAPORATION CONTROL SYSTEM	Incorrect pressure increase within the fuel tank.(Minor leakage) The error can be validated only while running the anti-evaporation test.	Minor leakage	Using the Tester, run the leakage diagnosis cycle and check the result. Check that the parameters read are consistent with all the circuit lines and with the system components. Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P0456	ANTI-EVAPORATION CONTROL SYSTEM	Incorrect pressure increase measured within the fuel tank. (Minor leakage)	Minor leakage	Check for leaks from the anti-evaporation circuit. Fuel pressure sensor check. Solenoid valve wiring check. Checking the wiring and intactness of the motor/leak control solenoid valve
Motronic ME 7.1.1 - LH	P0460	FUEL LEVEL SENSOR	Calculated values inconsistent with information received via CAN line from NBC or error message received from CAN	Malfunction	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - LH	P0461	FUEL LEVEL SENSOR	Calculated values inconsistent with information received via CAN line from NBC or error message received from CAN	Value not plausible	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - LH	P0462	FUEL LEVEL SENSOR	Calculated values inconsistent with information received via CAN line from NBC or error message received from CAN	MINIMUM VALUE	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - LH	P0463	FUEL LEVEL SENSOR	Calculated values inconsistent with information received via CAN line from NBC or error message received from CAN	MAXIMUM VALUE	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - LH	P0475	EXHAUST BY-PASS VALVE	Malfunction found on the exhaust by-pass control solenoid valve	SPORADIC CONTACT	
Motronic ME 7.1.1 - LH	P0477	EXHAUST BY-PASS VALVE	Malfunction found on the exhaust by-pass control solenoid valve	GND SHORT CIRCUIT	
Motronic ME 7.1.1 - LH	P0478	EXHAUST BY-PASS VALVE	Malfunction found on the exhaust by-pass control solenoid valve	VBATT SHORT CIRCUIT	
Motronic ME 7.1.1 - LH	P0480	FAN 1 CONTROL CIRCUIT	An incorrect management of the engine water cooling fan has been detected	Malfunction	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0500	CAR SPEED	Validity error in vehicle speed data received from CAN network.	Malfunction	Check for communication problems or ABS/VDC (NFR) system errors
Motronic ME 7.1.1 - LH	P0501	CAR SPEED	Validity error in vehicle speed data received from CAN network.	Value not plausible	Error check in the ABS/ASR system
Motronic ME 7.1.1 - LH	P0502	CAR SPEED	Validity error in vehicle speed data received from CAN network.	MINIMUM VALUE	Check for communication problems or ABS/VDC (NFR) system errors
Motronic ME 7.1.1 - LH	P0506	ENGINE PARAMETERS AT IDLE SPEED	Idling condition detected beyond the minimum acceptable threshold (e.g. too low engine rpm with accelerator pedal released)	MINIMUM VALUE	With the engine idling, check that the motor driven throttle value is 1.5 - 3% when it operates at a steady speed. With the engine idling, check that the air flow value is 18 - 25 Kg/h when it operates at a steady speed. With the engine idling, check that the rpm rate is 1060 +/-40. Infiltration check
Motronic ME 7.1.1 - LH	P0507	ENGINE PARAMETERS AT IDLE SPEED	Idling condition detected beyond the maximum acceptable threshold (e.g. too high engine rpm with accelerator pedal released)	MAXIMUM VALUE	With the engine idling, check that the motor driven throttle value is 1.5 - 3% when it operates at a steady speed. With the engine idling, check that the air flow value is 18 - 25 Kg/h when it operates at a steady speed. With the engine idling, check that the rpm rate is 1060 +/-40. Infiltration check
Motronic ME 7.1.1 - LH	P0560	BATTERY VOLTAGE	Battery voltage value inconsistent with the vehicle operating conditions (e.g. Battery voltage unsteady)	Value not plausible	Main relay circuit check. Battery condition check. Alternator efficiency check.
Motronic ME 7.1.1 - LH	P0562	BATTERY VOLTAGE	Battery voltage value too low, the critical operating threshold could be reached	MINIMUM VALUE	Main relay circuit check. Battery condition check. Alternator efficiency check.
Motronic ME 7.1.1 - LH	P0563	BATTERY VOLTAGE	Battery voltage value too high, the critical operating threshold could be reached	MAXIMUM VALUE	Main relay circuit check. Battery condition check. Alternator efficiency check.
Motronic ME 7.1.1 - LH	P0571	BRAKE SWITCH	The information relating to the brake switch pressed has proved to be not plausible if compared with the three inputs available:	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0600	RH-B AND LH-B CAN LINE ERROR	CAN line communication error between the RH ECU and the LH ECU	Communication Error	Wiring and system intactness check.
Motronic ME 7.1.1 - LH	P0604	RAM INTERNAL ERROR	Ram internal check not plausible	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P0605	ROM INTERNAL ERROR	Rom internal check not plausible	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P0606	MICROPROCESSOR INTERNAL ERROR	Malfunction inside the microprocessor	Malfunction	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P0645	CLUTCH - AC COMPRESSOR RELAY CONTROL	Control wire discontinuous	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0646	CLUTCH - AC COMPRESSOR RELAY CONTROL	Relay control wire in short circuit to ground	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0647	CLUTCH - AC COMPRESSOR RELAY CONTROL	Relay control wire cut-out or in short circuit to Vbatt	VBATT OPEN CIRCUIT/SHORT CIRCUIT	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P0654	ENGINE RPM OUTPUT SIGNAL	Engine rpm output wire discontinuous	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0660	MODULAR MANIFOLD SOLENOID VALVE	Malfunction found on the modular manifold control solenoid valve	SPORADIC CONTACT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0661	MODULAR MANIFOLD SOLENOID VALVE	Malfunction found on the modular manifold control solenoid valve	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P0662	MODULAR MANIFOLD SOLENOID VALVE	Malfunction found on the modular manifold control solenoid valve	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1034	CYL.7-8-9 REAR LAMBDA SENSOR	Malfunction detected on the rear lambda sensor circuit. Possible false contact	SPORADIC CONTACT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1035	CYL.7-8-9 REAR LAMBDA SENSOR	Malfunction detected on the rear lambda sensor circuit. Possible short circuit to ground	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1036	CYL.7-8-9 REAR LAMBDA SENSOR	Malfunction detected on the rear lambda sensor circuit. Possible short circuit to V batt	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1037	CYL.7-8-9 REAR LAMBDA SENSOR	No probe oscillations detected	NO SIGNAL	Component intactness check
Motronic ME 7.1.1 - LH	P1040	CYL.7-8-9 REAR LAMBDA SENSOR	Maximum value offset condition read by the sensor, very rich mixture	OUT OF RANGE	Fuel pressure check. Check any non-complying exhaust gas emissions (engine running at steady speed with sensors disconnected HC<250ppm CO<1,1%) (see service manual). Check the injector working condition in the diagnosis mode. Check the ignition coils for proper operation. Check the spark plugs status. Check the lambda sensors working condition.
Motronic ME 7.1.1 - LH	P1041	CYL.7-8-9 REAR LAMBDA SENSOR	Oscillation delay found with respect to the correction request. Minimum value	Slow response	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1043	CYL. 7-8-9 FRONT LAMBDA SENSOR	RH and LH front lambda sensor connections inverted	INVERTED CONNECTION	Check the Lambda sensors operation using the Diagnosis Tester.
Motronic ME 7.1.1 - LH	P1045	BACK OX. SENSOR (RH.CYL.4-5-6 AND LH.CYL.7-8-9)	RH and LH front lambda sensor connections inverted	INVERTED CONNECTION	Check the Lambda sensors operation using the Diagnosis Tester.
Motronic ME 7.1.1 - LH	P1048	CYL. 7-8-9 FRONT LAMBDA SENSOR	Sensor malfunction detected, possible false contact	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1049	CYL. 7-8-9 FRONT LAMBDA SENSOR	Sensor malfunction detected, possible short circuit to +Vbatt	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1101	LH-B AIR-FLOW METER	Plausibility error detected on the intake air quantity read.	Value not plausible	Engine operation check (check all the components that may "unbalance" the engine if malfunctioning). Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P1104	LH-B AIR-FLOW METER	Minimum value reached, probable S.C. to ground	C.C. to ground or minimum value reached	Engine operation check (check all the components that may "unbalance" the engine if malfunctioning). Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P1106	LH-B AIR-FLOW METER	Maximum value reached, probable S.C. to Vbatt	C.C. to VBATT or maximum value	Engine operation check (check all the components that may "unbalance" the engine if malfunctioning). Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P1108	LH AIR TEMPERATURE SENSOR	Malfunction detected on the air temperature sensor incorporated in the air-flow meter, possible false contact	Malfunction	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1109	LH AIR TEMPERATURE SENSOR	Air temperature value not plausible, on the basis of the weather conditions, engine temperature, intake air quantity	Value not plausible	Check of the temperature values plausibility between one bank and the other. Check of the wiring and component intactness.
Motronic ME 7.1.1 - LH	P1111	LH AIR TEMPERATURE SENSOR	Minimum value reached, probable S.C. to ground	C.C. to ground or minimum value reached	Compare the temperature value read by the system using an outside sensor. From the parameter page, check the air flow between the LH and RH banks: the difference must not exceed 5kg/h. Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P1112	LH AIR TEMPERATURE SENSOR	Maximum value reached, probable S.C. to Vbatt	C.C. to VBATT or maximum value	Compare the temperature value read by the system using an outside sensor. From the parameter page, check the air flow between the LH and RH banks: the difference must not exceed 5kg/h. Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P1127	Long Term Fuel Trim Multiplicative, Lower (Bank 2)	Incorrect fuel self-learning, fuel percentage greater than optimal value	Rich fuel value	Check all the devices relating to carburation/combustion (sensors, air-flow meter, spark plug injectors, coils), all the mechanical parts relating to emissions (engine timing, valve seal, exhaust manifolds etc.)
Motronic ME 7.1.1 - LH	P1128	Long Term Fuel Trim Multiplicative, Lower (Bank 2)	Incorrect fuel self-learning, fuel percentage lower than optimal value	Lean fuel value	Check all the devices relating to carburation/combustion (sensors, air-flow meter, spark plug injectors, coils), all the mechanical parts relating to emissions (engine timing, valve seal, exhaust manifolds etc.)
Motronic ME 7.1.1 - LH	P1129	CYL. 7-8-9 SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	Incorrect fuel self-learning, fuel percentage greater than optimal value	Rich fuel value	Check all the devices relating to carburation/combustion (sensors, air-flow meter, spark plug injectors, coils), all the mechanical parts relating to emissions (engine timing, valve seal, exhaust manifolds etc.)
Motronic ME 7.1.1 - LH	P1130	CYL. 7-8-9 SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	Incorrect fuel self-learning, fuel percentage lower than optimal value	Lean fuel value	Check all the devices relating to carburation/combustion (sensors, air-flow meter, spark plug injectors, coils), all the mechanical parts relating to emissions (engine timing, valve seal, exhaust manifolds etc.)
Motronic ME 7.1.1 - LH	P1131	THROTTLE POSITION SENSOR	Throttle position inconsistent with engine conditions: engine rpm and intake air quantity	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1132	LH-B THROTTLE POTENTIOETER	The two potentiometer values are inconsistent. Carry out a throttle self-learning cycle	Value not plausible	Using the diagnosis Tester, check that the throttle opening parameters are correct (0 - 100%) . Check the component intactness /electric wiring.
Motronic ME 7.1.1 - LH	P1133	LH-B ENVIRONMENT TEMPERATURE SENSOR	Intake air temperature from the engine inconsistent with the operating conditions of the sensor incorporated in the air-flow meter.Reference parameters for error validation: intake air quantity, throttle position, engine rpm.	Value not plausible	Check of the temperature values plausibility between one bank and the other. Check of the wiring and component intactness.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1135	RH-B FRONT LAMBDA SENSOR HEATING CIRCUIT	The signal inconsistency error can also be caused by a malfunction of one of the following components - injector and relative wiring, - coil and relative wiring, - exhaust intake valve bleeding - engine time, Notes:	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1136	LH-B ADDITIONAL AIR SELF-LEARNING	Incorrect fuel self-learning, air percentage injected too low	Rich fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - LH	P1137	LH-B ADDITIONAL AIR SELF-LEARNING	High self-learned value for injected air quantity. The ECU detects an injected air ratio above the basic values.	Lean fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - LH	P1138	CYL. 7-8-9 ADDITIONAL AIR SELF-LEARNING	Incorrect fuel self-learning, air percentage injected too low	Rich fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - LH	P1139	CYL. 7-8-9 ADDITIONAL AIR SELF-LEARNING	Incorrect fuel self-learning, air percentage injected too high	Lean fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - LH	P1140	LH BANK SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	A lean air fuel mixture ratio was detected	Lean fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - LH	P1141	LH BANK SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	A rich air fuel mixture ratio was detected	Rich fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - LH	P1142	CYL.7-8-9 SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	A lean air fuel mixture ratio was detected	Lean fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1143	CYL.7-8-9 SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	A rich air fuel mixture ratio was detected	Rich fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - LH	P1145	ECU INTERNAL ERROR	Internal microprocessor calculation error	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.	
Motronic ME 7.1.1 - LH	P1146	ACCELERATOR PEDAL POTENTIOMETER 1.	Possible SC to Vbatt or potentiometer 1 position value inconsistent with potentiometer 2 position and throttle position	Voltage value high	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1147	ACCELERATOR PEDAL POTENTIOMETER 1.	Possible SC to ground or potentiometer 1 position value inconsistent with potentiometer 2 position and throttle position	Voltage value low	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1148	LH-B ECU INTERNAL ERROR	Cylinder filling time/quantity calculation error	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P1149	ACCELERATOR PEDAL POTENTIOMETER 1.	Potentiometer 1 position value inconsistent with potentiometer 2 position and throttle position	Voltage value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1150	ACCELERATOR PEDAL POTENTIOMETER 2	Possible SC to Vbatt or potentiometer 2 position value inconsistent with potentiometer 1 position and throttle position	Voltage value high	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1151	ACCELERATOR PEDAL POTENTIOMETER 2	Potentiometer 2 position value inconsistent with potentiometer 1 position and throttle position	Voltage value low	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1161	LH-B MOTOR-DRIVEN THROTTLE SELF-LEARNING	Plausibility error found during throttle position self-learning cycle	Value not plausible	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1162	SAFETY SPRING AT THE LH-B MOTOR-DRIVEN THROTTLE OPENING	An error was found on the safety spring in the opening stage, during the throttle actuation check	MAXIMUM VALUE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1163	SAFETY SPRING AT THE LH-B MOTOR-DRIVEN THROTTLE CLOSING	An error was found on the safety spring in the closing stage, during the throttle actuation check	MAXIMUM VALUE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1164	LH-B MOTOR-DRIVEN THROTTLE SELF-LEARNING UNSUCCESSFUL	The throttle self-learning was not successful	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1165	LH-B MOTOR-DRIVEN THROTTLE SELF-LEARNING	Error during throttle self-learning initialization	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1166	LH-B MOTOR-DRIVEN THROTTLE POSITION AMPLIFIER ERROR	Position signal amplifier.	Value not plausible	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1167	LH-B THROTTLE MOTOR CONTROL POWER STAGE FAULT	Fault of power stage controlling throttle motor	Value not plausible	Using the diagnosis Tester, check that the throttle opening parameters are correct (0 - 100%) . Check the component intactness /electric wiring.
Motronic ME 7.1.1 - LH	P1171	THROTTLE POSITION DRIFT IN RELATION TO LH PEDAL B REQUEST	The throttle position does not correspond with the position requested by the accelerator pedal	Value not plausible	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1175	Motor driven throttle position	Throttle position value out of admitted range	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1178	THROTTLE POSITION SELF-LEARNING	The error occurred during a throttle actuation (through the accelerator pedal) as it does not recognize the minimum and maximum values stored during self-learningConditions required to carry out a correct check- Battery Voltage	Malfunction	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1179	MOTOR DRIVEN THROTTLE RETURN SPRING FAILURE	A failure was detected on the return spring during a throttle actuation (acceleration stage) - (probable high throttle opening time)	Fault	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - LH	P1180	MOTOR DRIVEN THROTTLE RETURN SPRING FAILURE	A failure was detected on the return spring during a throttle actuation (release stage) - (probable high throttle closing time)	Fault	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - LH	P1181	THROTTLE POSITION SELF-LEARNING	The pedal position self-learning procedure has failed, the ECU indicates inconsistent values read.	Malfunction	Repeat the self-learning procedure, checking that the required conditions are met. Check the battery voltage."
Motronic ME 7.1.1 - LH	P1182	MOTOR DRIVEN THROTTLE SELF-LEARNING	The pedal position self-learning procedure has failed, the ECU indicates inconsistent values read.	OUT OF RANGE	Repeat the self-learning procedure, checking that the required conditions are met. Check the battery voltage."
Motronic ME 7.1.1 - LH	P1183	MOTOR DRIVEN THROTTLE	Position signal amplifier.	OUT OF RANGE	Cancel the self-learning using the active diagnosis and carry out the self-learning procedure again. Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P1184	MOTOR DRIVEN THROTTLE	Actuation motor failure	Power Off	Using the active diagnosis, check the correct functioning of the throttle.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1185	MOTOR DRIVEN THROTTLE	Position drift with respect to the pedal request	Value not plausible	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - LH	P1186	MOTOR DRIVEN THROTTLE	Throttle position out of range	Value out of range	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - LH	P1187	MOTOR DRIVEN THROTTLE	Failure during ignition check	Process interrupted	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - LH	P1188	MOTOR DRIVEN THROTTLE SELF-LEARNING	Self learning cannot be executed	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1189	ACCELERATOR PEDAL POTENTIOMETER	Potentiometer 1 position value inconsistent with potentiometer 2 position and throttle position	Voltage value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1190	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 1	Throttle potentiometer 1 voltage too high, out of acceptable range.	OUT OF RANGE OR SHORT CIRCUIT TO VBATT.	Check for possible short circuit to + Vbatt of one of the output signals.
Motronic ME 7.1.1 - LH	P1191	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 1	Throttle potentiometer 1 voltage too low, out of acceptable range.	OUT OF RANGE OR SHORT CIRCUIT TO GROUND	Check for possible short circuit to GND of one of the output signals.
Motronic ME 7.1.1 - LH	P1192	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 1	Throttle potentiometer 1 voltage inconsistent with the requested position	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1193	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 2	Throttle potentiometer 2 voltage too high, out of acceptable range.	OUT OF RANGE OR SHORT CIRCUIT TO VBATT.	Check for possible short circuit to + Vbatt of one of the output signals.
Motronic ME 7.1.1 - LH	P1194	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 2	Throttle potentiometer 2 voltage too low, out of acceptable range.	OUT OF RANGE OR SHORT CIRCUIT TO GROUND	Check for possible short circuit to GND of one of the output signals.
Motronic ME 7.1.1 - LH	P1195	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 2	Throttle potentiometer 2 voltage inconsistent with the requested position	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1196	MOTOR DRIVEN THROTTLE	Initial check procedure interrupted. Check the fault conditions that do not enable the initial test upon Key On	CHECK PROCEDURE INTERRUPTED	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1197	LH-B MOTOR-DRIVEN THROTTLE SELF-LEARNING	Throttle position values during self-learning out of range	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1198	LH FRONT LAMBDA SENSOR	Heating circuit malfunction	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1249	LH-B ENVIRONMENT PRESSURE SENSOR	Calculated ambient pressure value at the maximum threshold. The air-flow meter may be damaged or show inconsistent values	MAXIMUM VALUE	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1250	LH-B ENVIRONMENT PRESSURE SENSOR	Calculated ambient pressure value at the minimum threshold. The air-flow meter may be damaged or show inconsistent values	C.C. to ground or minimum value reached	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1251	LH-B ENVIRONMENT PRESSURE SENSOR	Invalid environment pressure value. The air-flow meter may be damaged or show inconsistent values	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1252	ECU INTERNAL ERROR	Intake air charge sensor's input not plausible, anomalous conditions which may cause the ECU resetting	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1253	ECU INTERNAL ERROR	Accelerator pedal position sensor's input not plausible, anomalous conditions which may cause the ECU resetting	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1254	ECU INTERNAL ERROR	Accelerator pedal position sensor's input not plausible, anomalous conditions which may cause the ECU resetting	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1255	ECU INTERNAL ERROR	Accelerator pedal position sensor's input not plausible, anomalous conditions which may cause the ECU resetting	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1256	LH-B FUEL SELF-LEARNING	Incorrect fuel self-learning.	Value not plausible	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P1257	LH-B FUEL SELF-LEARNING	Incorrect fuel self-learning.	Rich fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P1258	LH-B FUEL SELF-LEARNING	Incorrect fuel self-learning.	Lean fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P1259	CYL. 7-8-9 FUEL SELF-LEARNING	Incorrect fuel self-learning.	Value not plausible	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P1260	CYL. 7-8-9 FUEL SELF-LEARNING	Incorrect fuel self-learning.	Rich fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1261	CYL. 7-8-9 FUEL SELF-LEARNING	Incorrect fuel self-learning.	Lean fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - LH	P1263	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Malfunction in the Lambda sensor heating circuit.	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1267	ECU INTERNAL ERROR	Safety monitoring function for fuel cut-out ECU reset anomalous conditions	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P1268	ECU INTERNAL ERROR	Torque ratio monitoring function. ECU reset anomalous conditions	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P1269	ECU INTERNAL ERROR	Safety monitoring function for fuel cut-out ECU reset anomalous conditions	Fault	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P1270	ECU INTERNAL ERROR	Torque ratio monitoring function. ECU reset anomalous conditions	Fault	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P1271	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Malfunction found on the rear lambda sensor heating circuit.	SHORT CIRCUIT	Possible short circuit in the lambda sensor heating cable.
Motronic ME 7.1.1 - LH	P1272	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Malfunction found on the rear lambda sensor heating circuit.	GND SHORT CIRCUIT	Possible short circuit to GND in the lambda sensor heating cable.
Motronic ME 7.1.1 - LH	P1273	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Malfunction found on the rear lambda sensor heating circuit.	VBATT SHORT CIRCUIT	Possible short circuit to VBAT of the lambda sensor heating cable.
Motronic ME 7.1.1 - LH	P1278	CYL.7-8-9 FRONT LAMBDA SENSOR HEATING CHECK	Possible short circuit in the Lambda sensor heating cable	SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1280	CYL.7-8-9 FRONT LAMBDA SENSOR HEATING CHECK	Possible short circuit to + Vbatt on the Lambda sensor heating cable	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1281	CYL.7-8-9 FRONT LAMBDA SENSOR HEATING CHECK	Malfunction in the Lambda sensor heating circuit.	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1285	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Incorrect Lambda sensor oscillation (slow)	Slow response	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1287	RH-B FRONT LAMBDA SENSOR	The sensor has reached the maximum value (possible sensor locking)	MAXIMUM VALUE	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1288	LH-B FRONT LAMBDA SENSOR	The sensor has reached the maximum value (possible sensor locking)	MAXIMUM VALUE	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1289	SAFETY SPRING AT THE LH-B MOTOR-DRIVEN THROTTLE OPENING	Failure found on throttle safety spring during opening	MINIMUM VALUE	Component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1290	SAFETY SPRING AT THE LH-B MOTOR-DRIVEN THROTTLE CLOSING	Failure found on throttle safety spring during closing stage	MINIMUM VALUE	Component intactness check
Motronic ME 7.1.1 - LH	P1291	LH-B MOTOR-DRIVEN THROTTLE RANGE CHECK	Defect found during motor driven throttle voltage reading: non-acceptable values.	MINIMUM VALUE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1292	SAFETY SPRING AT THE RH-B MOTOR-DRIVEN THROTTLE OPENING	During the opening check, a failure was found on the safety spring	MINIMUM VALUE	Component intactness check
Motronic ME 7.1.1 - LH	P1293	SAFETY SPRING AT THE RH-B MOTOR-DRIVEN THROTTLE CLOSING	During the opening check, a failure was found on the safety spring	MINIMUM VALUE	Component intactness check
Motronic ME 7.1.1 - LH	P1294	RH-B MOTOR-DRIVEN THROTTLE RANGE CHECK	The error occurred during a throttle actuation (through the accelerator pedal) as it does not recognize the minimum and maximum values stored during self-learningConditions required to carry out a correct check- Battery Voltage	MINIMUM VALUE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1296	TORQUE LIMITING DEVICE ACTIVATION	System error generally associated with throttle self-learning errors which trigger its recovery function.	Maximum threshold exceeded	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - LH	P1297	LH-B TORQUE LIMITING DEVICE	Torque limiter activation due to maximum value exceeded	MAXIMUM VALUE	
Motronic ME 7.1.1 - LH	P1298	RH-B TORQUE COMPARISON CHECK	The torque value issued by the RH bank is not compatible with that for the LH bank	Value not plausible	
Motronic ME 7.1.1 - LH	P1299	LH-B TORQUE COMPARISON CHECK	The torque value issued by the RH bank is not compatible with that for the LH bank	Value not plausible	
Motronic ME 7.1.1 - LH	P1323	RH STAGE SENSOR	The timing sensor signal is too advanced with respect to the engine rpm signal	Maximum threshold exceeded	Signal panel check. Timing variator check. Engine Timing Check (see manual)
Motronic ME 7.1.1 - LH	P1324	RH STAGE SENSOR	The timing sensor signal is too delayed with respect to the engine rpm signal	Minimum threshold exceeded	Signal panel check. Timing variator check. Engine Timing Check (see manual)
Motronic ME 7.1.1 - LH	P1337	ENGINE REVOLUTION SENSOR	Sporadic malfunction of the engine rpm signal	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1338	LH-B RPM SENSOR	Possible false contact on the rpm sensor cable	Malfunction	Check the installation gap - Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P1339	LH STAGE SENSOR	The timing sensor signal is too advanced with respect to the engine rpm signal	Maximum threshold exceeded	Indicator panel check. Tming variator check. Engine timing check.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1340	LH STAGE SENSOR	The timing sensor signal is too delayed with respect to the engine rpm signal	Minimum threshold exceeded	Indicator panel check. Tming variator check. Engine timing check.
Motronic ME 7.1.1 - LH	P1341	ECU INTERNAL ERROR	Inconsistency detected on the engine rpm input, anomalous conditions which reset the ECU.	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1342	LH-B ECU INTERNAL ERROR	ECU internal error on the engine rpm calculation function. It is however always advisable to check the wiring	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1382	LH DETONATION SENSOR 2	Minimum value reached, probable S.C. to ground	MINIMUM VALUE	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P1383	LH DETONATION SENSOR 1	Minimum value reached, probable S.C. to ground	MINIMUM VALUE	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P1384	LH DETONATION SENSOR 1	Maximum value reached, probable S.C. to Vbatt	MAXIMUM VALUE	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P1385	LH DETONATION SENSOR 2	Maximum value reached, probable S.C. to Vbatt	MAXIMUM VALUE	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P1386	DETONATION CONTROL SYSTEM	Inconsistent detection on the four sensors	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1387	LH-B DETONATION SENSOR MONITORING	Check of the detonation sensor input signal, values inconsistent with the engine conditions	Value not plausible	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P1388	DETONATION CONTROL SYSTEM	Inconsistent detection on the four sensors	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1390	LH-B DETONATION SENSOR MONITORING	TOPOLOGICAL	>; Detonation sensor (cylinders 1-2) ;	
Motronic ME 7.1.1 - LH	P1393	DETONATION CONTROL SYSTEM	Inconsistent detection on the four sensors	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1394	LH-B DETONATION SENSOR MONITORING	Check of the detonation sensor input signal, values inconsistent with the engine conditions	Value not plausible	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - LH	P1419	CANISTER PURGE SYSTEM	Hardware defect (breakage) detected on the canister purge device	MAXIMUM VALUE	Check of all system components (canister, tubes, solenoid valve etc.)
Motronic ME 7.1.1 - LH	P1420	CANISTER PURGE SYSTEM	Hardware defect (breakage) detected on the canister purge device	MINIMUM VALUE	Check of all system components (canister, tubes, solenoid valve etc.)
Motronic ME 7.1.1 - LH	P1421	CANISTER PURGE SYSTEM	Hardware defect (breakage) detected on the canister purge device	Intermittent contact	Check of all system components (canister, tubes, solenoid valve etc.)
Motronic ME 7.1.1 - LH	P1422	CANISTER PURGE SYSTEM	Hardware defect (breakage) detected on the canister purge device	Value not plausible	Check of all system components (canister, tubes, solenoid valve etc.)
Motronic ME 7.1.1 - LH	P1423	LH-B CATALYTIC CONVERTER EFFICIENCY WHEN WARM	A non-efficiency was found on the catalytic converter, it is however advisable to check the sensors' efficiency	Maximum threshold exceeded	Check the Lambda sensors operation using the Diagnosis Tester.
Motronic ME 7.1.1 - LH	P1424	CYL 7-8-9 CATALYTIC CONVERTER EFFICIENCY WHEN WARM	A non-efficiency was found on the catalytic converter, it is however advisable to check the sensors' efficiency	Maximum threshold exceeded	Check the Lambda sensors operation using the Diagnosis Tester.
Motronic ME 7.1.1 - LH	P1427	LH-B CANISTER PURGE SOLENOID VALVE CIRCUIT	Solenoid valve malfunction detected. The error can be validated only while running the anti-evaporation test."	GND SHORT CIRCUIT	Checkout of possible losses within anti-evaporation circuit. Check of fuel pressure sensor. Check of solenoid valve cable.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1428	LH-B CANISTER PURGE SOLENOID VALVE CIRCUIT	Solenoid valve malfunction detected. The error can be validated only while running the anti-evaporation test."	OPEN CIRCUIT	Checkout of possible losses within anti-evaporation circuit. Check of fuel pressure sensor. Check of solenoid valve cable.
Motronic ME 7.1.1 - LH	P1439	LH-B SECONDARY AIR INJECTION SYSTEM	Malfunction during secondary air circuit reading. Insufficient oxygen intake.	MINIMUM VALUE	Check the additional air circuit. Check the wiring/component intactness.
Motronic ME 7.1.1 - LH	P1443	SECONDARY AIR INJECTION SYSTEM, LH BANK	Malfunction during secondary air circuit reading. Insufficient oxygen intake.	MINIMUM VALUE	Check of pump/air flow working condition using the diagnosis. Air circuit efficiency check (partial blocking of the tubes or valves). Pump's electrical wiring check.
Motronic ME 7.1.1 - LH	P1444	CYL.7-8-9 SECONDARY AIR INJECTION SYSTEM	Air flow inlet not correct	MINIMUM VALUE	Check the additional air circuit. Check the wiring/component intactness.
Motronic ME 7.1.1 - LH	P1446	Intervention to protect the cylinder bank catalytic converter	Catalytic converter temperature check: protection active (max)Caused by an excessive temperature value on the catalytic converter.	Activation triggered	Fuel level check. Fuel supply pressure check. Fuel pump operating check. Injector operation check using the diagnosis function. Check of ignition coils and relative connection. Check the spark plugs. Wiring check.
Motronic ME 7.1.1 - LH	P1450	SECONDARY AIR PUMP RELAY CONTROL	The error is validated only during the air pump operation	VBATT SHORT CIRCUIT	In diagnosis mode, check that the Secondary Air Pump is functioning correctly. Wiring check.
Motronic ME 7.1.1 - LH	P1451	SECONDARY AIR PUMP RELAY CONTROL	The error is validated only during the air pump operation	GND SHORT CIRCUIT	In diagnosis mode, check that the Secondary Air Pump is functioning correctly. Wiring check.
Motronic ME 7.1.1 - LH	P1452	SECONDARY AIR PUMP RELAY CONTROL	The error is validated only during the air pump operation	OPEN CIRCUIT	In diagnosis mode, check that the Secondary Air Pump is functioning correctly. Wiring check.
Motronic ME 7.1.1 - LH	P1454	PROTECTION ACTIVATION FOR LH BANK CATALYTIC CONVERTERS	Catalytic converter temperature check: protection active (max). Caused by an excessive temperature value on the catalytic converter.	Activation triggered	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - LH	P1463	LH-B FUEL LEVEL SENSOR	Possible false contact on the fuel level sensor cable	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1464	LH-B FUEL LEVEL SENSOR	Possible false contact on the fuel level sensor or value inconsistent with the calculations made	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1465	LH-B FUEL LEVEL SENSOR	Possible short circuit to ground on the fuel level sensor or minimum value beyond threshold.	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1466	LH-B FUEL LEVEL SENSOR	Possible short circuit to + Vbatt on the fuel level sensor cable or minimum value beyond threshold	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1467	RH-B THROTTLE ANGLE CHECK SIGNAL	Possible short circuit to + Vbatt on the motor-driven throttle control cable	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1468	RH-B THROTTLE ANGLE CHECK SIGNAL	Possible short circuit to ground on the motor-driven throttle control cable	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1469	RH-B THROTTLE ANGLE CHECK SIGNAL	Possible open circuit on the motor-driven throttle control cable	OPEN CIRCUIT	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1481	RH SECONDARY AIR SOLENOID VALVE	Air bleeding detected with solenoid valve closed	Leakage	Component intactness check
Motronic ME 7.1.1 - LH	P1482	LH SECONDARY AIR SOLENOID VALVE	Air bleeding detected with solenoid valve closed	Leakage	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1483	FAN 1 RELAY CONTROL	Relay control wire for electric cooling fan 1 in short circuit	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1484	FAN 1 RELAY CONTROL	Relay control wire for electric cooling fan 1 in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1487	LH-B SECONDARY AIR VALVE	Leakage found from secondary air inlet circuit	GREAT LEAKAGE	Circuit connections check. Solenoid valve integrity check.
Motronic ME 7.1.1 - LH	P1488	CYL 7-8-9 SECONDARY AIR VALVE	Leakage found from secondary air inlet circuit	GREAT LEAKAGE	Circuit connections check. Solenoid valve integrity check.
Motronic ME 7.1.1 - LH	P1501	FUEL PUMP RELAY 1 CONTROL	Fuel pump relay wire in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1504	LH-B FUEL PUMP 1 RELAY	Main relay control wire in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1505	LH-B FUEL PUMP 1 RELAY	Main relay control wire in short circuit	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1506	LH-B FUEL PUMP 1 RELAY	Malfunction on main relay control cable	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1518	IDLE CONTROL SYSTEM	Idling condition detected beyond the minimum acceptable threshold (e.g. too low engine rpm with accelerator pedal released)	MINIMUM VALUE	With the engine idling, check that the motor driven throttle value is 1.5 - 3% when it operates at a steady speed. With the engine idling, check that the air flow value is 18 - 25 Kg/h when operating at a steady speed.With the engine idling, check that the rpm rate is 1060 +/-40.
Motronic ME 7.1.1 - LH	P1519	IDLE CONTROL SYSTEM	Idling condition detected beyond the maximum acceptable threshold (e.g. too high engine rpm with accelerator pedal released)	Maximum threshold exceeded	With the engine idling, check that the motor driven throttle value is 1.5 - 3% when it operates at a steady speed. With the engine idling, check that the air flow value is 18 - 25 Kg/h when operating at a steady speed.With the engine idling, check that the rpm rate is 1060 +/-40.
Motronic ME 7.1.1 - LH	P1537	CAR SPEED	Vehicle speed data issued on the CAN line by the ABS/ASR system	Value not plausible	Check the ABS/ASR ECU functioning /errors. Check the CAN line wiring
Motronic ME 7.1.1 - LH	P1538	CAR SPEED	Vehicle speed data issued on the CAN line by the ABS/ASR system	Value not plausible	Check the ABS/ASR ECU functioning /errors. Check the CAN line wiring
Motronic ME 7.1.1 - LH	P1539	CAR SPEED	Vehicle speed data issued on the CAN line by the ABS/ASR system	Value not plausible	Check the ABS/ASR ECU functioning /errors. Check the CAN line wiring
Motronic ME 7.1.1 - LH	P1540	CLUTCH INFORMATION ERROR	Information coming from CAN line and issued by the F1 gearbox ECU	Malfunction	Gearbox ECU error check.
Motronic ME 7.1.1 - LH	P1541	FUEL PUMP RELAY 1 CONTROL	Fuel pump relay wire cut-out	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1542	CLUTCH DATA	Defect found on the clutch position sensor. Position values inconsistent (or no signal) with the vehicle working conditions.	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1543	FUEL PUMP RELAY 2 CONTROL	Relay control wire for electric cooling fan 2 in short circuit	VBATT SHORT CIRCUIT	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1544	FUEL PUMP RELAY 2 CONTROL	Fuel pump relay wire in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1545	FUEL PUMP RELAY 2 CONTROL	Fuel pump relay wire cut-out	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1546	LH-B FUEL PUMP 2 RELAY	Main relay control wire in short circuit	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1547	LH-B FUEL PUMP 2 RELAY	Main relay control wire in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1548	LH-B FUEL PUMP 2 RELAY	Relay control wire cut-out (or in short circuit)	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1556	FUEL TANK EMPTY ERROR	Fuel tank empty condition not plausible	Value not plausible	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - LH	P1557	FUEL TANK EMPTY ERROR	Fuel tank empty condition not plausible	Value not plausible	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - LH	P1560	LH-B BATTERY VOLTAGE	Battery voltage value inconsistent with the vehicle operating conditions (e.g. Battery voltage unsteady)	Value not plausible	Check the ground connections. Check the reference voltages on the ECU input (+15 / +30). Check the wiring connection.
Motronic ME 7.1.1 - LH	P1562	LH-B BATTERY VOLTAGE	Battery voltage value low. This error is memorised when the battery voltage drops below 10 Volt	VALUE TOO LOW	Check the alternator charge status. Check the reference voltages on the ECU input (+15 / +30). Check the wiring connection.
Motronic ME 7.1.1 - LH	P1563	LH-B BATTERY VOLTAGE	Battery voltage value high, above the 15Volt diagnosis threshold	VALUE TOO HIGH	Check the alternator charge status. Check the reference voltages on the ECU input (+15 / +30). Check the wiring connection.
Motronic ME 7.1.1 - LH	P1569	LH-B BRAKE SWITCH	Malfunction detected on the brake switch input. The two contacts must activate one after the other, with a different pedal stroke (1st NO - 2nd NC)	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1570	IMMOBILIZER	No communication during ignition between alarm system and engine check	Malfunction	Check the alarm system condition using the SD2 tester. Motronic ECU wiring and Alarm system ECU wiring check.
Motronic ME 7.1.1 - LH	P1571	RH-B IMMOBILIZER	This error does not allow the engine to be started	CRITICAL ERROR STILL PRESENT	Check the alarm system remote control for proper operation. Using the Diagnosis Tester, check the interface ECU status. Wiring / component intactness check.
Motronic ME 7.1.1 - LH	P1586	EnginE off	A major failure occurred within the gearbox, which required the engine to turn off	Controlled by ECU	Electronically-controlled gearbox system check
Motronic ME 7.1.1 - LH	P1587	ENGINE STOP FROM LH-B GEARBOX ECU	Message coming from the F1 gearbox system in case of serious failure with low speeds of the vehicle (safety)	CRITICAL ERROR STILL PRESENT	Check if the gearbox system has serious failures that may activate the ECU recovery (e.g. clutch failure).
Motronic ME 7.1.1 - LH	P1602	PERMANENT POWER SUPPLY	The direct supply from the battery has reached the minimum value for the ECU operation	MINIMUM VALUE	Battery intactness/wiring check.
Motronic ME 7.1.1 - LH	P1604	LH-B ECU INTERNAL ERROR	Ram internal error detected	CRITICAL ERROR STILL PRESENT	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P1605	LH-B ECU INTERNAL ERROR	Rom internal error detected	CRITICAL ERROR STILL PRESENT	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - LH	P1609	ROADBED SENSOR	A cut-out on the wire of the accelerometer for uneven roadbed has been detected	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1610	ROADBED SENSOR	Open circuit detected on the roadbed sensor input.	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1611	PERMANENT POWER SUPPLY	The supply voltage is below the minimum permitted level.	VALUE TOO LOW	Check the battery charge status and voltage. Check the connection between the ECU, the GND pin and the VBAT pin. Check the vehicle no-load absorption.
Motronic ME 7.1.1 - LH	P1613	FAULTY ECU	Internal EEProm faulty	Value not plausible	The ECU is faulty.
Motronic ME 7.1.1 - LH	P1614	LH-B ECU INTERNAL ERROR	Internal EEProm faulty	CRITICAL ERROR STILL PRESENT	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - LH	P1617	ROADBED SENSOR	A malfunction of the accelerometer sensor for roadbed or probable S.C. has been detected to Vbatt	VALUE TOO HIGH	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1619	ROADBED SENSOR	High value read on the roadbed sensor input. Possible S.C. to +VBATT	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1620	K LINE	Short circuit to Vbatt on the serial line K	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1621	K LINE	Short circuit to ground on the serial line K	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1622	K LINE	Serial line K wire cut out	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1626	ASR TIMEOUT	ASR message not received	Malfunction	ABS/ASR ECU check.
Motronic ME 7.1.1 - LH	P1627	F1 GEARBOX TIMEOUT	Gearbox ECU message not received	Malfunction	Gearbox ECU check.
Motronic ME 7.1.1 - LH	P1628	MONITORING OF MESSAGES BETWEEN THE TWO RH-B BANKS	CAN messages between the two banks not timed	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - LH	P1630	RH-B ECU CONFIGURATION CHECK	Wrong bank configuration (defined as RH or LH)	Value not plausible	Wiring and system intactness check.
Motronic ME 7.1.1 - LH	P1632	CAN MESSAGES TIMEOUT FROM LH-B GEARBOX ECU	No CAN messages were read by the F1Gearbox system within the established time	Malfunction	Electronically-controlled gearbox system check
Motronic ME 7.1.1 - LH	P1279	CYL.7-8-9 FRONT LAMBDA SENSOR HEATING CHECK	Possible short circuit to ground on the Lambda sensor heating cable	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0030	RH FRONT LAMBDA SENSOR	Heating circuit malfunction	NO SIGNAL	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0031	RH FRONT LAMBDA SENSOR	Heating circuit malfunction	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0032	RH FRONT LAMBDA SENSOR	Heating circuit malfunction	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0036	RH REAR LAMBDA SENSOR	Heating circuit malfunction	NO SIGNAL	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0037	RH REAR LAMBDA SENSOR	Heating circuit malfunction	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0038	RH REAR LAMBDA SENSOR	Heating circuit malfunction	VBATT SHORT CIRCUIT	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0040	RH-B AND LH-B FRONT LAMBDA SENSORS	RH and LH front lambda sensor connections inverted	INVERTED CONNECTION	Check the electric system connection on the component.
Motronic ME 7.1.1 - RH	P0041	RH-B AND LH-B REAR LAMBDA SENSORS	RH and LH front lambda sensor connections inverted	INVERTED CONNECTION	Check the electric system connection on the component.
Motronic ME 7.1.1 - RH	P0050	LH FRONT LAMBDA SENSOR	Heating circuit malfunction	NO SIGNAL	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0051	LH FRONT LAMBDA SENSOR	Heating circuit malfunction	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0052	LH FRONT LAMBDA SENSOR	Heating circuit malfunction	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0056	LH REAR LAMBDA SENSOR	Heating circuit malfunction	NO SIGNAL	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0057	LH REAR LAMBDA SENSOR	Heating circuit malfunction	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0058	LH REAR LAMBDA SENSOR	Heating circuit malfunction	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0071	AIR TEMPERATURE SENSOR	Validity error in ambient temperature data received from CAN network.	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0101	AIR FLOW METER	Air flow value does not correspond to throttle position and engine rpm.	Value not plausible	Possible false contact or hot film sensor faulty.
Motronic ME 7.1.1 - RH	P0102	AIR FLOW METER	Intake air flow rate minimum value does not correspond to engine operational values.	C.C. to Ground or air flow minimum value reached.	Check the following values in the parameters environment: Throttle position, Engine rpm.
Motronic ME 7.1.1 - RH	P0103	AIR FLOW METER	Intake air flow rate minimum value does not correspond to engine operational values.	C.A./C.C. to VBatt or air flow maximum value reached.	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - RH	P0106	BAROMETRIC PRESSURE	Malfunction of air flow meter calculating barometric pressure to optimise high altitude combustion (low oxygen intake).	Value calculated not plausible	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - RH	P0107	BAROMETRIC PRESSURE	Malfunction of air flow meter calculating barometric pressure to optimise high altitude combustion (low oxygen intake).	Calculated minimum value or SC to GND	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - RH	P0108	BAROMETRIC PRESSURE	Malfunction of air flow meter calculating barometric pressure to optimise high altitude combustion (low oxygen intake).	Maximum value calculated or SC to Vbatt	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - RH	P0110	INTAKE AIR TEMPERATURE	Malfunction due to the air flow meter which calculates the intake air temperature to optimize combustion.	Malfunction	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - RH	P0111	INTAKE AIR TEMPERATURE	Malfunction due to the air flow meter which calculates the intake air temperature to optimize combustion.	Value calculated not plausible	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - RH	P0112	INTAKE AIR TEMPERATURE	Malfunction due to the air flow meter which calculates the intake air temperature to optimize combustion.	Calculated minimum value	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions
Motronic ME 7.1.1 - RH	P0113	INTAKE AIR TEMPERATURE	Malfunction due to the air flow meter which calculates the intake air temperature to optimize combustion.	Calculated maximum value	Check the following values in the parameters environment: Throttle position, Engine rpm,Weather conditions

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0115	WATER TEMPERATURE SENSOR	Probable false contact. A temporary lack of signal was detected.	Intermittent contact	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0116	WATER TEMPERATURE SENSOR	Signal not plausible. A water temperature value inconsistent with the vehicle conditions was detected (e.g. engine running time).	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0117	WATER TEMPERATURE SENSOR	Signal not plausible, probable false contact. A water temperature value inconsistent with the vehicle conditions was detected (e.g. engine running time).	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0118	WATER TEMPERATURE SENSOR	Signal not plausible, probable false contact. A water temperature value inconsistent with the vehicle conditions was detected (e.g. engine running time).	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0121	THROTTLE POSITION SENSOR 1	System error generally associated with another error of potentiometer 1 on the throttle body. Reference parameters for error validation: engine rpm, intake air flow rate	Value not plausible	Check the following values in the parameters environment: Engine rpm,Intake air flow rate
Motronic ME 7.1.1 - RH	P0122	THROTTLE POSITION SENSOR 1	Potentiometer's output signal value low	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0123	THROTTLE POSITION SENSOR 1	Potentiometer's output signal value high	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0130	RH FRONT LAMBDA SENSOR	Probable false contact. A temporary lack of signal was detected.	SPORADIC CONTACT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0132	FRONT LAMBDA SENSOR	Maximum value reached: possible O.C. or S.C. to Vbatt.	MAXIMUM VALUE	During the active diagnosis, check the lambda sensor heating. Check that the resistance value between pin 3 and pin 4 on the connector is equal to 3.2 Ohm
Motronic ME 7.1.1 - RH	P0133	RH FRONT LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Slow response	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0135	RH FRONT LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0136	RH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0137	RH REAR LAMBDA SENSOR	Adjustment voltage value low	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0138	RH REAR LAMBDA SENSOR	Adjustment voltage value high	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0139	RH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Slow response	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0140	RH REAR LAMBDA SENSOR	No Lambda sensor activity.	Not activity detected	Possible ageing / damage to lambda sensor.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0141	RH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0150	RH REAR LAMBDA SENSOR	Intermittent sensor signal.	Intermittent contact	Possible false contact. Check component connection.
Motronic ME 7.1.1 - RH	P0152	FRONT LAMBDA SENSOR	Maximum value reached: possible O.C. or S.C. to Vbatt. In active diagnosis mode, check the lambda sensor heating. Check that the resistance value between pin 3 and pin 4 on the connector is equal to 3.2 Ohm The maximum value reached error	Voltage value high	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0153	LH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Slow response	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0155	LH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0156	LH REAR LAMBDA SENSOR	The lambda sensor does not oscillate properly during adjustment. This may be due to an aged sensor or to external interference factors (combustion): injectors, coils, air intakes etc.	Value not plausible	Component intactness check
Motronic ME 7.1.1 - RH	P0157	LH REAR LAMBDA SENSOR	Adjustment voltage value low	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0158	LH REAR LAMBDA SENSOR	Adjustment voltage value high	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0159	LH REAR LAMBDA SENSOR	The lambda sensor does not oscillate properly during adjustment. This may be due to an aged sensor or to external interference factors (combustion): injectors, coils, air intakes etc.	Slow response	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0160	LH REAR LAMBDA SENSOR	No Lambda sensor activity.	NO OPERATIONS	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0161	LH REAR LAMBDA SENSOR	Lambda sensor does not oscillate correctly during correction.	Value not plausible	Possible sensor aging or external factors (combustion): injectors, spark plugs, coils, air intakes etc.
Motronic ME 7.1.1 - RH	P0170	FUEL-AIR MIXTURE RATIO SELF-LEARNING, RH BANK	Incorrect fuel self-learning.	Value not plausible	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P0171	FUEL-AIR MIXTURE RATIO SELF-LEARNING, RH BANK	Incorrect fuel self-learning.	Lean fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0172	FUEL-AIR MIXTURE RATIO SELF-LEARNING, RH BANK	Incorrect fuel self-learning.	Rich fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P073	FUEL-AIR MIXTURE RATIO SELF-LEARNING, LH BANK	Incorrect fuel self-learning.	Value not plausible	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P0174	FUEL-AIR MIXTURE RATIO SELF-LEARNING, LH BANK	Incorrect fuel self-learning.	Lean fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P0175	FUEL-AIR MIXTURE RATIO SELF-LEARNING, LH BANK	Incorrect fuel self-learning.	Rich fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P0201	CYLINDER 1 INJECTOR	Malfunction detected on cylinder 1 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - RH	P0202	CYLINDER 2 INJECTOR	Malfunction detected on cylinder 2 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - RH	P0203	CYLINDER 3 INJECTOR	Malfunction detected on cylinder 3 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - RH	P0204	CYLINDER 4 INJECTOR	Malfunction detected on cylinder 4 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - RH	P0205	CYLINDER 5 INJECTOR	Malfunction detected on cylinder 5 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - RH	P0206	CYLINDER 6 INJECTOR	Malfunction detected on cylinder 6 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - RH	P0207	CYLINDER 7 INJECTOR	Malfunction detected on cylinder 7 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - RH	P0208	CYLINDER 8 INJECTOR	Malfunction detected on cylinder 8 injector.	Malfunction	Possible false contact or injector stuck open. Check injector contacts and run active diagnostics cycle on injector.
Motronic ME 7.1.1 - RH	P0219	ENGINE REVOL.	Rpm limiter setting exceeded.	Maximum threshold exceeded	Check that the engine has not been seriously damaged.
Motronic ME 7.1.1 - RH	P0221	THROTTLE POSITION SENSOR 2	System error generally associated with another error of potentiometer 2 on the throttle body. Reference parameters for error validation: engine rpm, intake air flow rate	Value not plausible	Check the following values in the parameters environment: Engine rpm,Intake air flow rate

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0222	THROTTLE POSITION SENSOR 2	Potentiometer's output signal value low	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0223	THROTTLE POSITION SENSOR 2	Potentiometer's output signal value high	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0230	FUEL PUMP RELAY	Error in the fuel pump relay control circuit.	VBATT SHORT CIRCUIT	Check possible false contact or short circuit to Vbatt of the pump relay control contact.
Motronic ME 7.1.1 - RH	P0261	CYLINDER 1 INJECTOR	Malfunction detected on cylinder 1 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 1 injector.
Motronic ME 7.1.1 - RH	P0262	CYLINDER 1 INJECTOR	Malfunction detected on cylinder 1 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 1 injector.
Motronic ME 7.1.1 - RH	P0264	CYLINDER 2 INJECTOR	Malfunction detected on cylinder 2 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 2 injector.
Motronic ME 7.1.1 - RH	P0265	CYLINDER 2 INJECTOR	Malfunction detected on cylinder 2 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 2 injector.
Motronic ME 7.1.1 - RH	P0267	CYLINDER 3 INJECTOR	Malfunction detected on cylinder 3 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 3 injector.
Motronic ME 7.1.1 - RH	P0268	CYLINDER 3 INJECTOR	Malfunction detected on cylinder 3 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 3 injector.
Motronic ME 7.1.1 - RH	P0270	CYLINDER 4 INJECTOR	Malfunction detected on cylinder 4 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 4 injector.
Motronic ME 7.1.1 - RH	P0271	CYLINDER 4 INJECTOR	Malfunction detected on cylinder 4 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 4 injector.
Motronic ME 7.1.1 - RH	P0273	CYLINDER 5 INJECTOR	Malfunction detected on cylinder 5 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 5 injector.
Motronic ME 7.1.1 - RH	P0274	CYLINDER 5 INJECTOR	Malfunction detected on cylinder 5 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 5 injector.
Motronic ME 7.1.1 - RH	P0276	CYLINDER 6 INJECTOR	Malfunction detected on cylinder 6 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 6 injector.
Motronic ME 7.1.1 - RH	P0277	CYLINDER 6 INJECTOR	Malfunction detected on cylinder 6 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 6 injector.
Motronic ME 7.1.1 - RH	P0279	CYLINDER 7 INJECTOR	Malfunction detected on cylinder 7 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 7 injector.
Motronic ME 7.1.1 - RH	P0280	CYLINDER 7 INJECTOR	Malfunction detected on cylinder 7 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 7 injector.
Motronic ME 7.1.1 - RH	P0282	CYLINDER 8 INJECTOR	Malfunction detected on cylinder 8 injector circuit.	GND SHORT CIRCUIT	Check for possible short circuit to GND of cylinder 8 injector.
Motronic ME 7.1.1 - RH	P0283	CYLINDER 8 INJECTOR	Malfunction detected on cylinder 8 injector circuit.	VBATT SHORT CIRCUIT	Check for possible short circuit to VBAT of cylinder 8 injector.
Motronic ME 7.1.1 - RH	P0300	INJECTION/IGNITION SYSTEM	Generic ignition/injection system error.	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0301	CYLINDER 1 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - RH	P0302	CYLINDER 2 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0303	CYLINDER 3 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - RH	P0304	CYLINDER 4 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - RH	P0305	CYLINDER 5 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - RH	P0306	CYLINDER 6 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - RH	P0307	CYLINDER 7 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - RH	P0308	CYLINDER 8 MISFIRE	The ECU has detected critical cylinder misfire conditions (incorrect ignition).	Maximum threshold exceeded	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - RH	P0327	RH DETONATION SENSOR 1	Minimum plausible value measured	GND SHORT CIRCUIT	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P0328	RH DETONATION SENSOR 1	Maximum plausible value measured	VBATT OPEN CIRCUIT/SHORT CIRCUIT	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P0332	RH DETONATION SENSOR 2	Minimum plausible value measured	GND SHORT CIRCUIT	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P0333	RH DETONATION SENSOR 2	Maximum plausible value measured	VBATT OPEN CIRCUIT/SHORT CIRCUIT	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P0335	ENGINE RPM SENSOR A	Probable false contact or toothed wheel gap, revolution sensor uncorrect	SPORADIC CONTACT	Check parameters using toothed wheel Diagnosis Check Tester (conformity and gap between sensor and toothed wheel). Check drive shaft and camshaft signals.
Motronic ME 7.1.1 - RH	P0336	ENGINE RPM SENSOR A	Derivative for engine rpm out of range signal detected	SPORADIC CONTACT	Check parameters using toothed wheel Diagnosis Check Tester (conformity and gap between sensor and toothed wheel). Check drive shaft and camshaft signals.
Motronic ME 7.1.1 - RH	P0337	ENGINE RPM SENSOR A	Probable ground shortcircuit or toothed wheel gap, revolutions sensor uncorrect	MINIMUM VALUE	Toothed wheel checkout (compliance and gap among sensor and toothed wheel). Check camshaft and crankshaft
Motronic ME 7.1.1 - RH	P0338	ENGINE RPM SENSOR A	Probable ground shortcircuit or toothed wheel gap, revolutions sensor uncorrect	MAXIMUM VALUE	Check parameters using toothed wheel Diagnosis Check Tester (conformity and gap between sensor and toothed wheel). Check drive shaft and camshaft signals.
Motronic ME 7.1.1 - RH	P0340	RH STAGE SENSOR	Lack of timing sensor signal detected	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0341	RH STAGE SENSOR	Signal inconsistent conditions	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0342	RH STAGE SENSOR	Signal value low, below threshold	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0343	RH STAGE SENSOR	Signal value high, above threshold	VBATT SHORT CIRCUIT	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0345	LH STAGE SENSOR	Lack of timing sensor signal detected	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0346	LH STAGE SENSOR	Signal inconsistent conditions	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0347	LH STAGE SENSOR	Signal value low, below threshold	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0348	LH STAGE SENSOR	Signal value high, above threshold	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0351	CYLINDER 1 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - RH	P0352	CYLINDER 2 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - RH	P0353	CYLINDER 3 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - RH	P0354	CYLINDER 4 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - RH	P0355	CYLINDER 5 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - RH	P0356	CYLINDER 6 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - RH	P0357	CYLINDER 7 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - RH	P0358	CYLINDER 8 COIL PRIMARY WINDING	Coil primary circuit error.	Malfunction	Check for following possible fault causes: Short circuit to ground short circuit to vbatt. open circuit or false contact (signal discontinuous)
Motronic ME 7.1.1 - RH	P0385	ENGINE RPM SENSOR B	Sporadic malfunction of the engine rpm signal	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0386	ENGINE RPM SENSOR B	Sporadic malfunction of the engine rpm signal	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0387	ENGINE RPM SENSOR B	Sporadic malfunction of the engine rpm signal	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0388	ENGINE RPM SENSOR B	Sporadic malfunction of the engine rpm signal	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0411	SECONDARY AIR SYSTEM	The error can be validated only during the air pump operation. (see manual)If it is associated to another error on the secondary air solenoid valve, check the efficiency of the entire system.	Insufficient oxygen: Value read low	Wiring and system intactness check.
Motronic ME 7.1.1 - RH	P0412	SECONDARY SOLENOID VALVE CONTROL CIRCUIT	Error during secondary air solenoid valve activation.	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0413	SECONDARY SOLENOID VALVE CONTROL CIRCUIT	Error during secondary air solenoid valve activation.	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0414	SECONDARY SOLENOID VALVE CONTROL CIRCUIT	Error during secondary air solenoid valve activation.	GND SHORT CIRCUIT	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0421	RH CATALYTIC CONVERTER HEATING	An insufficient temperature for optimizing the catalytic converter operation has been detected	Minimum threshold exceeded	System intactness and temperature sensor check.
Motronic ME 7.1.1 - RH	P0426	RH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Catalytic convertor temperature signal inconsistent with the vehicle driving conditions (e.g. engine running time and temp. H2O>90 ?C)	Intermittent contact	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0427	RH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Temperature value below minimum threshold with vehicle in steady running conditions	C.C. to ground or minimum value reached	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0428	RH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Temperature value above maximum threshold with vehicle in steady running conditions, check that the catalytic converter has not actually overheated	C.C. to VBATT or maximum value	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0431	LH CATALYTIC CONVERTOR HEATING	An insufficient temperature for optimizing the catalytic converter operation has been detected	Minimum threshold exceeded	System intactness and temperature sensor check.
Motronic ME 7.1.1 - RH	P0436	LH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Catalytic convertor temperature signal inconsistent with the vehicle driving conditions (e.g. engine running time and temp. H2O>90 ?C)	Intermittent contact	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0437	LH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Temperature value below minimum threshold with vehicle in steady running conditions	C.C. to ground or minimum value reached	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0438	LH CATALYTIC CONVERTOR TEMPERATURE SENSOR	Temperature value above maximum threshold with vehicle in steady running conditions, check that the catalytic converter has not actually overheated	C.C. to VBATT or maximum value	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0440	ANTI-EVAPORATION CONTROL SYSTEM	High vacuum value detected inside the fuel tank.The error can be validated only during the anti-evaporation test activation.	Maximum threshold exceeded	Checkout of possible losses within anti-evaporation circuit. Check of fuel pressure sensor. Check of solenoid valve cable.
Motronic ME 7.1.1 - RH	P0442	ANTI-EVAPORATION CONTROL SYSTEM	No pressure increase measured within the fuel tank. (Major leakage)The error can be validated only while running the anti-evaporation test.	Tank leakage	Checkout of possible losses within anti-evaporation circuit. Check of fuel pressure sensor. Check of solenoid valve cable.
Motronic ME 7.1.1 - RH	P0443	ANTI-EVAPORATION SYSTEM CONTROL SOLENOID VALVE	Short circuit to Vbatt detected on the solenoid valve control drive.The error can be validated only while running the anti-evaporation test.	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0444	ANTI-EVAPORATION SYSTEM CONTROL SOLENOID VALVE	Malfunction found in the anti-evaporation system control circuit.	OPEN CIRCUIT	Check for possible cut-outs in the canister purge valve control cable.
Motronic ME 7.1.1 - RH	P0445	ANTI-EVAPORATION SYSTEM CONTROL SOLENOID VALVE	Malfunction found in the anti-evaporation system control circuit.	GND SHORT CIRCUIT	Check for possible short circuit to ground of the canister purge valve control cable.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0446	CANISTER AIR INTAKE VALVE CONTROL CIRCUIT	Short circuit to Vbatt on the solenoid valve control drive. The error can be validated only during the tank leakage test activation.	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0447	CANISTER AIR INTAKE VALVE CONTROL CIRCUIT	Short circuit to Vbatt on the solenoid valve control drive. The error can be validated only during the tank leakage test activation.	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0448	CANISTER AIR INTAKE VALVE CONTROL CIRCUIT	Short circuit to Vbatt on the solenoid valve control drive. The error can be validated only during the tank leakage test activation.	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0449	CANISTER AIR INTAKE VALVE CONTROL CIRCUIT	Short circuit to Vbatt on the solenoid valve control drive. The error can be validated only during the tank leakage test activation.	SPORADIC CONTACT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0450	TANK PRESSURE SENSOR	Malfunction found on the fuel tank pressure sensor. Possible false contact or sensor damaged.	SPORADIC CONTACT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0451	TANK PRESSURE SENSOR	Malfunction in the fuel tank pressure sensor. Inconsistent value	Value not plausible	Using the Tester, run the leakage diagnosis cycle and check the result. Check that the parameters read are consistent with all the circuit lines and with the system components. Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P0452	TANK PRESSURE SENSOR	Malfunction found on the fuel tank pressure sensor. The value read is equal to the maximum acceptable threshold.	C.C. to ground or minimum value reached	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0453	TANK PRESSURE SENSOR	Malfunction found on the fuel tank pressure sensor. The value read is equal to the maximum acceptable threshold.	C.C. to VBATT or maximum value	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0455	ANTI-EVAPORATION CONTROL SYSTEM	Incorrect pressure increase within the fuel tank.(Minor leakage) The error can be validated only while running the anti-evaporation test.	Minor leakage	Using the Tester, run the leakage diagnosis cycle and check the result. Check that the parameters read are consistent with all the circuit lines and with the system components. Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P0456	ANTI-EVAPORATION CONTROL SYSTEM	Incorrect pressure increase measured within the fuel tank. (Minor leakage)	Minor leakage	Check for leaks from the anti-evaporation circuit. Fuel pressure sensor check. Solenoid valve wiring check. Checking the wiring and intactness of the motor/leak control solenoid valve
Motronic ME 7.1.1 - RH	P0460	FUEL LEVEL SENSOR	Calculated values inconsistent with information received via CAN line from NBC or error message received from CAN	Malfunction	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - RH	P0461	FUEL LEVEL SENSOR	Calculated values inconsistent with information received via CAN line from NBC or error message received from CAN	Value not plausible	Check of information or errors on the instrument panel / fuel level sensor

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0462	FUEL LEVEL SENSOR	Calculated values inconsistent with information received via CAN line from NBC or error message received from CAN	MINIMUM VALUE	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - RH	P0463	FUEL LEVEL SENSOR	Calculated values inconsistent with information received via CAN line from NBC or error message received from CAN	MAXIMUM VALUE	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - RH	P0475	EXHAUST BY-PASS VALVE	Malfunction found on the exhaust by-pass control solenoid valve	SPORADIC CONTACT	
Motronic ME 7.1.1 - RH	P0477	EXHAUST BY-PASS VALVE	Malfunction found on the exhaust by-pass control solenoid valve	GND SHORT CIRCUIT	
Motronic ME 7.1.1 - RH	P0478	EXHAUST BY-PASS VALVE	Malfunction found on the exhaust by-pass control solenoid valve	VBATT SHORT CIRCUIT	
Motronic ME 7.1.1 - RH	P0480	FAN 1 CONTROL CIRCUIT	An incorrect management of the engine water cooling fan has been detected	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0500	CAR SPEED	Validity error in vehicle speed data received from CAN network.	Malfunction	Check for communication problems or ABS/VDC (NFR) system errors
Motronic ME 7.1.1 - RH	P0501	CAR SPEED	Validity error in vehicle speed data received from CAN network.	Value not plausible	Error check in the ABS/ASR system
Motronic ME 7.1.1 - RH	P0502	CAR SPEED	Validity error in vehicle speed data received from CAN network.	MINIMUM VALUE	Check for communication problems or ABS/VDC (NFR) system errors
Motronic ME 7.1.1 - RH	P0506	ENGINE PARAMETERS AT IDLE SPEED	Idling condition detected beyond the minimum acceptable threshold (e.g. too low engine rpm with accelerator pedal released)	MINIMUM VALUE	With the engine idling, check that the motor driven throttle value is 1.5 - 3% when it operates at a steady speed. With the engine idling, check that the air flow value is 18 - 25 Kg/h when it operates at a steady speed. With the engine idling, check that the rpm rate is 1060 +/-40. Infiltration check
Motronic ME 7.1.1 - RH	P0507	ENGINE PARAMETERS AT IDLE SPEED	Idling condition detected beyond the maximum acceptable threshold (e.g. too high engine rpm with accelerator pedal released)	MAXIMUM VALUE	With the engine idling, check that the motor driven throttle value is 1.5 - 3% when it operates at a steady speed. With the engine idling, check that the air flow value is 18 - 25 Kg/h when it operates at a steady speed. With the engine idling, check that the rpm rate is 1060 +/-40. Infiltration check
Motronic ME 7.1.1 - RH	P0560	BATTERY VOLTAGE	Battery voltage value inconsistent with the vehicle operating conditions (e.g. Battery voltage unsteady)	Value not plausible	Main relay circuit check. Battery condition check. Alternator efficiency check.
Motronic ME 7.1.1 - RH	P0562	BATTERY VOLTAGE	Battery voltage value too low, the critical operating threshold could be reached	MINIMUM VALUE	Main relay circuit check. Battery condition check. Alternator efficiency check.
Motronic ME 7.1.1 - RH	P0563	BATTERY VOLTAGE	Battery voltage value too high, the critical operating threshold could be reached	MAXIMUM VALUE	Main relay circuit check. Battery condition check. Alternator efficiency check.
Motronic ME 7.1.1 - RH	P0571	BRAKE SWITCH	The information relating to the brake switch pressed has proved to be not plausible if compared with the three inputs available:	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0600	RH-B AND LH-B CAN LINE ERROR	CAN line communication error between the RH ECU and the LH ECU	Communication Error	Wiring and system intactness check.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P0604	RAM INTERNAL ERROR	Ram internal check not plausible	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P0605	ROM INTERNAL ERROR	Rom internal check not plausible	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P0606	MICROPROCESSOR INTERNAL ERROR	Malfunction inside the microprocessor	Malfunction	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P0645	CLUTCH - AC COMPRESSOR RELAY CONTROL	Control wire discontinuous	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0646	CLUTCH - AC COMPRESSOR RELAY CONTROL	Relay control wire in short circuit to ground	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0647	CLUTCH - AC COMPRESSOR RELAY CONTROL	Relay control wire cut-out or in short circuit to Vbatt	VBATT OPEN CIRCUIT/SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0654	ENGINE RPM OUTPUT SIGNAL	Engine rpm output wire discontinuous	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0660	MODULAR MANIFOLD SOLENOID VALVE	Malfunction found on the modular manifold control solenoid valve	SPORADIC CONTACT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0661	MODULAR MANIFOLD SOLENOID VALVE	Malfunction found on the modular manifold control solenoid valve	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P0662	MODULAR MANIFOLD SOLENOID VALVE	Malfunction found on the modular manifold control solenoid valve	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1034	CYL.7-8-9 REAR LAMBDA SENSOR	Malfunction detected on the rear lambda sensor circuit. Possible false contact	SPORADIC CONTACT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1035	CYL.7-8-9 REAR LAMBDA SENSOR	Malfunction detected on the rear lambda sensor circuit. Possible short circuit to ground	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1036	CYL.7-8-9 REAR LAMBDA SENSOR	Malfunction detected on the rear lambda sensor circuit. Possible short circuit to V batt	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1037	CYL.7-8-9 REAR LAMBDA SENSOR	No probe oscillations detected	NO SIGNAL	Component intactness check
Motronic ME 7.1.1 - RH	P1040	CYL.7-8-9 REAR LAMBDA SENSOR	Maximum value offset condition read by the sensor, very rich mixture	OUT OF RANGE	Fuel pressure check. Check any non-complying exhaust gas emissions (engine running at steady speed with sensors disconnected HC<250ppm CO<1,1%) (see service manual). Check the injector working condition in the diagnosis mode. Check the ignition coils for proper operation. Check the spark plugs status. Check the lambda sensors working condition.
Motronic ME 7.1.1 - RH	P1041	CYL.7-8-9 REAR LAMBDA SENSOR	Oscillation delay found with respect to the correction request. Minimum value	Slow response	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1043	CYL. 7-8-9 FRONT LAMBDA SENSOR	RH and LH front lambda sensor connections inverted	INVERTED CONNECTION	Check the Lambda sensors operation using the Diagnosis Tester.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1045	BACK OX. SENSOR (RH.CYL.4-5-6 AND LH.CYL.7-8-9)	RH and LH front lambda sensor connections inverted	INVERTED CONNECTION	Check the Lambda sensors operation using the Diagnosis Tester.
Motronic ME 7.1.1 - RH	P1048	CYL. 7-8-9 FRONT LAMBDA SENSOR	Sensor malfunction detected, possible false contact	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1049	CYL. 7-8-9 FRONT LAMBDA SENSOR	Sensor malfunction detected, possible short circuit to +Vbatt	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1101	LH-B AIR-FLOW METER	Plausibility error detected on the intake air quantity read.	Value not plausible	Engine operation check (check all the components that may "unbalance" the engine if malfunctioning). Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P1104	LH-B AIR-FLOW METER	Minimum value reached, probable S.C. to ground	C.C. to ground or minimum value reached	Engine operation check (check all the components that may "unbalance" the engine if malfunctioning). Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P1106	LH-B AIR-FLOW METER	Maximum value reached, probable S.C. to Vbatt	C.C. to VBATT or maximum value	Engine operation check (check all the components that may "unbalance" the engine if malfunctioning). Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P1108	LH AIR TEMPERATURE SENSOR	Malfunction detected on the air temperature sensor incorporated in the air-flow meter, possible false contact	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1109	LH AIR TEMPERATURE SENSOR	Air temperature value not plausible, on the basis of the weather conditions, engine temperature, intake air quantity	Value not plausible	Check of the temperature values plausibility between one bank and the other. Check of the wiring and component intactness.
Motronic ME 7.1.1 - RH	P1111	LH AIR TEMPERATURE SENSOR	Minimum value reached, probable S.C. to ground	C.C. to ground or minimum value reached	Compare the temperature value read by the system using an outside sensor. From the parameter page, check the air flow between the LH and RH banks: the difference must not exceed 5kg/h. Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P1112	LH AIR TEMPERATURE SENSOR	Maximum value reached, probable S.C. to Vbatt	C.C. to VBATT or maximum value	Compare the temperature value read by the system using an outside sensor. From the parameter page, check the air flow between the LH and RH banks: the difference must not exceed 5kg/h. Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P1127	Long Term Fuel Trim Multiplicative, Lower (Bank 2)	Incorrect fuel self-learning, fuel percentage greater than optimal value	Rich fuel value	Check all the devices relating to carburation/combustion (sensors, air-flow meter, spark plug injectors, coils), all the mechanical parts relating to emissions (engine timing, valve seal, exhaust manifolds etc.)
Motronic ME 7.1.1 - RH	P1128	Long Term Fuel Trim Multiplicative, Lower (Bank 2)	Incorrect fuel self-learning, fuel percentage lower than optimal value	Lean fuel value	Check all the devices relating to carburation/combustion (sensors, air-flow meter, spark plug injectors, coils), all the mechanical parts relating to emissions (engine timing, valve seal, exhaust manifolds etc.)
Motronic ME 7.1.1 - RH	P1129	CYL. 7-8-9 SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	Incorrect fuel self-learning, fuel percentage greater than optimal value	Rich fuel value	Check all the devices relating to carburation/combustion (sensors, air-flow meter, spark plug injectors, coils), all the mechanical parts relating to emissions (engine timing, valve seal, exhaust manifolds etc.)

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1130	CYL. 7-8-9 SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	Incorrect fuel self-learning, fuel percentage lower than optimal value	Lean fuel value	Check all the devices relating to carburation/combustion (sensors, air-flow meter, spark plug injectors, coils), all the mechanical parts relating to emissions (engine timing, valve seal, exhaust manifolds etc.)
Motronic ME 7.1.1 - RH	P1131	THROTTLE POSITION SENSOR	Throttle position inconsistent with engine conditions: engine rpm and intake air quantity	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1132	LH-B THROTTLE POTENTIOETER	The two potentiometer values are inconsistent. Carry out a throttle self-learning cycle	Value not plausible	Using the diagnosis Tester, check that the throttle opening parameters are correct (0 - 100%) . Check the component intactness /electric wiring.
Motronic ME 7.1.1 - RH	P1133	LH-B ENVIRONMENT TEMPERATURE SENSOR	Intake air temperature from the engine inconsistent with the operating conditions of the sensor incorporated in the air-flow meter.Reference parameters for error validation: intake air quantity, throttle position, engine rpm.	Value not plausible	Check of the temperature values plausibility between one bank and the other. Check of the wiring and component intactness.
Motronic ME 7.1.1 - RH	P1135	RH-B FRONT LAMBDA SENSOR HEATING CIRCUIT	The signal inconsistency error can also be caused by a malfunction of one of the following components - injector and relative wiring, - coil and relative wiring, - exhaust intake valve bleeding - engine time, Notes:	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1136	LH-B ADDITIONAL AIR SELF-LEARNING	Incorrect fuel self-learning, air percentage injected too low	Rich fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - RH	P1137	LH-B ADDITIONAL AIR SELF-LEARNING	High self-learned value for injected air quantity. The ECU detects an injected air ratio above the basic values.	Lean fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - RH	P1138	CYL. 7-8-9 ADDITIONAL AIR SELF-LEARNING	Incorrect fuel self-learning, air percentage injected too low	Rich fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - RH	P1139	CYL. 7-8-9 ADDITIONAL AIR SELF-LEARNING	Incorrect fuel self-learning, air percentage injected too high	Lean fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1140	LH BANK SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	A lean air fuel mixture ratio was detected	Lean fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - RH	P1141	LH BANK SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	A rich air fuel mixture ratio was detected	Rich fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - RH	P1142	CYL.7-8-9 SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	A lean air fuel mixture ratio was detected	Lean fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - RH	P1143	CYL.7-8-9 SELF-LEARNING OF AIR FUEL MIXTURE RATIO AT LOW ENGINE SPEED	A rich air fuel mixture ratio was detected	Rich fuel value	Delete the values self-learned by the ECU. Check of the additional air circuit connections. Check the fuel pressureCheck whether the exhaust gas emissions are within the accepted limits.(engine at steady rpm with sensors disconnected HC<250ppm CO<1,1%) (see manual)
Motronic ME 7.1.1 - RH	P1145	ECU INTERNAL ERROR	Internal microprocessor calculation error	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.	
Motronic ME 7.1.1 - RH	P1146	ACCELERATOR PEDAL POTENTIOMETER 1.	Possible SC to Vbatt or potentiometer 1 position value inconsistent with potentiometer 2 position and throttle position	Voltage value high	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1147	ACCELERATOR PEDAL POTENTIOMETER 1.	Possible SC to ground or potentiometer 1 position value inconsistent with potentiometer 2 position and throttle position	Voltage value low	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1148	LH-B ECU INTERNAL ERROR	Cylinder filling time/quantity calculation error	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P1149	ACCELERATOR PEDAL POTENTIOMETER 1.	Potentiometer 1 position value inconsistent with potentiometer 2 position and throttle position	Voltage value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1150	ACCELERATOR PEDAL POTENTIOMETER 2	Possible SC to Vbatt or potentiometer 2 position value inconsistent with potentiometer 1 position and throttle position	Voltage value high	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1151	ACCELERATOR PEDAL POTENTIOMETER 2	Potentiometer 2 position value inconsistent with potentiometer 1 position and throttle position	Voltage value low	Wiring / component intactness check

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1161	LH-B MOTOR-DRIVEN THROTTLE SELF-LEARNING	Plausibility error found during throttle position self-learning cycle	Value not plausible	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1162	SAFETY SPRING AT THE LH-B MOTOR-DRIVEN THROTTLE OPENING	An error was found on the safety spring in the opening stage, during the throttle actuation check	MAXIMUM VALUE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1163	SAFETY SPRING AT THE LH-B MOTOR-DRIVEN THROTTLE CLOSING	An error was found on the safety spring in the closing stage, during the throttle actuation check	MAXIMUM VALUE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1164	LH-B MOTOR-DRIVEN THROTTLE SELF-LEARNING UNSUCCESSFUL	The throttle self-learning was not successful	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1165	LH-B MOTOR-DRIVEN THROTTLE SELF-LEARNING	Error during throttle self-learning initialization	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1166	LH-B MOTOR-DRIVEN THROTTLE POSITION AMPLIFIER ERROR	Position signal amplifier.	Value not plausible	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1167	LH-B THROTTLE MOTOR CONTROL POWER STAGE FAULT	Fault of power stage controlling throttle motor	Value not plausible	Using the diagnosis Tester, check that the throttle opening parameters are correct (0 - 100%) . Check the component intactness /electric wiring.
Motronic ME 7.1.1 - RH	P1171	THROTTLE POSITION DRIFT IN RELATION TO LH PEDAL B REQUEST	The throttle position does not correspond with the position requested by the accelerator pedal	Value not plausible	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1175	Motor driven throttle position	Throttle position value out of admitted range	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1178	THROTTLE POSITION SELF-LEARNING	The error occurred during a throttle actuation (through the accelerator pedal) as it does not recognize the minimum and maximum values stored during self-learningConditions required to carry out a correct check- Battery Voltage	Malfunction	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1179	MOTOR DRIVEN THROTTLE RETURN SPRING FAILURE	A failure was detected on the return spring during a throttle actuation (acceleration stage) - (probable high throttle opening time)	Fault	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - RH	P1180	MOTOR DRIVEN THROTTLE RETURN SPRING FAILURE	A failure was detected on the return spring during a throttle actuation (release stage) - (probable high throttle closing time)	Fault	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - RH	P1181	THROTTLE POSITION SELF-LEARNING	The pedal position self-learning procedure has failed, the ECU indicates inconsistent values read.	Malfunction	Repeat the self-learning procedure, checking that the required conditions are met. Check the battery voltage."
Motronic ME 7.1.1 - RH	P1182	MOTOR DRIVEN THROTTLE SELF-LEARNING	The pedal position self-learning procedure has failed, the ECU indicates inconsistent values read.	OUT OF RANGE	Repeat the self-learning procedure, checking that the required conditions are met. Check the battery voltage."
Motronic ME 7.1.1 - RH	P1183	MOTOR DRIVEN THROTTLE	Position signal amplifier.	OUT OF RANGE	Cancel the self-learning using the active diagnosis and carry out the self-learning procedure again. Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P1184	MOTOR DRIVEN THROTTLE	Actuation motor failure	Power Off	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - RH	P1185	MOTOR DRIVEN THROTTLE	Position drift with respect to the pedal request	Value not plausible	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - RH	P1186	MOTOR DRIVEN THROTTLE	Throttle position out of range	Value out of range	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - RH	P1187	MOTOR DRIVEN THROTTLE	Failure during ignition check	Process interrupted	Using the active diagnosis, check the correct functioning of the throttle.
Motronic ME 7.1.1 - RH	P1188	MOTOR DRIVEN THROTTLE SELF-LEARNING	Self learning cannot be executed	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1189	ACCELERATOR PEDAL POTENTIOMETER	Potentiometer 1 position value inconsistent with potentiometer 2 position and throttle position	Voltage value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1190	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 1	Throttle potentiometer 1 voltage too high, out of acceptable range.	OUT OF RANGE OR SHORT CIRCUIT TO VBATT.	Check for possible short circuit to + Vbatt of one of the output signals.
Motronic ME 7.1.1 - RH	P1191	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 1	Throttle potentiometer 1 voltage too low, out of acceptable range.	OUT OF RANGE OR SHORT CIRCUIT TO GROUND	Check for possible short circuit to GND of one of the output signals.
Motronic ME 7.1.1 - RH	P1192	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 1	Throttle potentiometer 1 voltage inconsistent with the requested position	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1193	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 2	Throttle potentiometer 2 voltage too high, out of acceptable range.	OUT OF RANGE OR SHORT CIRCUIT TO VBATT.	Check for possible short circuit to + Vbatt of one of the output signals.
Motronic ME 7.1.1 - RH	P1194	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 2	Throttle potentiometer 2 voltage too low, out of acceptable range.	OUT OF RANGE OR SHORT CIRCUIT TO GROUND	Check for possible short circuit to GND of one of the output signals.
Motronic ME 7.1.1 - RH	P1195	LH-B MOTOR-DRIVEN THROTTLE POTENTIOMETER 2	Throttle potentiometer 2 voltage inconsistent with the requested position	Value not plausible	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1196	MOTOR DRIVEN THROTTLE	Initial check procedure interrupted. Check the fault conditions that do not enable the initial test upon Key On	CHECK PROCEDURE INTERRUPTED	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1197	LH-B MOTOR-DRIVEN THROTTLE SELF-LEARNING	Throttle position values during self-learning out of range	OUT OF RANGE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1198	LH FRONT LAMBDA SENSOR	Heating circuit malfunction	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1249	LH-B ENVIRONMENT PRESSURE SENSOR	Calculated ambient pressure value at the maximum threshold. The air-flow meter may be damaged or show inconsistent values	MAXIMUM VALUE	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1250	LH-B ENVIRONMENT PRESSURE SENSOR	Calculated ambient pressure value at the minimum threshold. The air-flow meter may be damaged or show inconsistent values	C.C. to ground or minimum value reached	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1251	LH-B ENVIRONMENT PRESSURE SENSOR	Invalid environment pressure value. The air-flow meter may be damaged or show inconsistent values	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1252	ECU INTERNAL ERROR	Intake air charge sensor's input not plausible, anomalous conditions which may cause the ECU resetting	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1253	ECU INTERNAL ERROR	Accelerator pedal position sensor's input not plausible, anomalous conditions which may cause the ECU resetting	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1254	ECU INTERNAL ERROR	Accelerator pedal position sensor's input not plausible, anomalous conditions which may cause the ECU resetting	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1255	ECU INTERNAL ERROR	Accelerator pedal position sensor's input not plausible, anomalous conditions which may cause the ECU resetting	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1256	LH-B FUEL SELF-LEARNING	Incorrect fuel self-learning.	Value not plausible	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P1257	LH-B FUEL SELF-LEARNING	Incorrect fuel self-learning.	Rich fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1258	LH-B FUEL SELF-LEARNING	Incorrect fuel self-learning.	Lean fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P1259	CYL. 7-8-9 FUEL SELF-LEARNING	Incorrect fuel self-learning.	Value not plausible	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P1260	CYL. 7-8-9 FUEL SELF-LEARNING	Incorrect fuel self-learning.	Rich fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P1261	CYL. 7-8-9 FUEL SELF-LEARNING	Incorrect fuel self-learning.	Lean fuel value	Check operation of all carburetion/combustion devices (sensors, air flow meter, injectors, coils), all mechanical components concerned with exhausts (engine timing, valve seals, exhaust manifolds, etc.)
Motronic ME 7.1.1 - RH	P1263	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Malfunction in the Lambda sensor heating circuit.	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1267	ECU INTERNAL ERROR	Safety monitoring function for fuel cut-out ECU reset anomalous conditions	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P1268	ECU INTERNAL ERROR	Torque ratio monitoring function. ECU reset anomalous conditions	Value not plausible	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P1269	ECU INTERNAL ERROR	Safety monitoring function for fuel cut-out ECU reset anomalous conditions	Fault	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P1270	ECU INTERNAL ERROR	Torque ratio monitoring function. ECU reset anomalous conditions	Fault	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P1271	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Malfunction found on the rear lambda sensor heating circuit.	SHORT CIRCUIT	Possible short circuit in the lambda sensor heating cable.
Motronic ME 7.1.1 - RH	P1272	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Malfunction found on the rear lambda sensor heating circuit.	GND SHORT CIRCUIT	Possible short circuit to GND in the lambda sensor heating cable.
Motronic ME 7.1.1 - RH	P1273	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Malfunction found on the rear lambda sensor heating circuit.	VBATT SHORT CIRCUIT	Possible short circuit to VBAT of the lambda sensor heating cable.
Motronic ME 7.1.1 - RH	P1278	CYL.7-8-9 FRONT LAMBDA SENSOR HEATING CHECK	Possible short circuit in the Lambda sensor heating cable	SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1280	CYL.7-8-9 FRONT LAMBDA SENSOR HEATING CHECK	Possible short circuit to + Vbatt on the Lambda sensor heating cable	VBATT SHORT CIRCUIT	Wiring / component intactness check

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1281	CYL.7-8-9 FRONT LAMBDA SENSOR HEATING CHECK	Malfunction in the Lambda sensor heating circuit.	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH			_DTCR_HDIE_	WORKSHOP MANUAL	>;
Motronic ME 7.1.1 - RH	P1285	CYL.7-8-9 REAR LAMBDA SENSOR HEATING CHECK	Incorrect Lambda sensor oscillation (slow)	Slow response	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1287	RH-B FRONT LAMBDA SENSOR	The sensor has reached the maximum value (possible sensor locking)	MAXIMUM VALUE	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1288	LH-B FRONT LAMBDA SENSOR	The sensor has reached the maximum value (possible sensor locking)	MAXIMUM VALUE	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1289	SAFETY SPRING AT THE LH-B MOTOR-DRIVEN THROTTLE OPENING	Failure found on throttle safety spring during opening	MINIMUM VALUE	Component intactness check
Motronic ME 7.1.1 - RH	P1290	SAFETY SPRING AT THE LH-B MOTOR-DRIVEN THROTTLE CLOSING	Failure found on throttle safety spring during closing stage	MINIMUM VALUE	Component intactness check
Motronic ME 7.1.1 - RH	P1291	LH-B MOTOR-DRIVEN THROTTLE RANGE CHECK	Defect found during motor driven throttle voltage reading: non-acceptable values.	MINIMUM VALUE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1292	SAFETY SPRING AT THE RH-B MOTOR-DRIVEN THROTTLE OPENING	During the opening check, a failure was found on the safety spring	MINIMUM VALUE	Component intactness check
Motronic ME 7.1.1 - RH	P1293	SAFETY SPRING AT THE RH-B MOTOR-DRIVEN THROTTLE CLOSING	During the opening check, a failure was found on the safety spring	MINIMUM VALUE	Component intactness check
Motronic ME 7.1.1 - RH	P1294	RH-B MOTOR-DRIVEN THROTTLE RANGE CHECK	The error occurred during a throttle actuation (through the accelerator pedal) as it does not recognize the minimum and maximum values stored during self-learningConditions required to carry out a correct check- Battery Voltage	MINIMUM VALUE	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1296	TORQUE LIMITING DEVICE ACTIVATION	System error generally associated with throttle self-learning errors which trigger its recovery function.	Maximum threshold exceeded	Using the Tester, delete the throttle self-learning cycle. Run the self-learning procedure. Using the parameters, it checks the throttle for correct opening 0 - 100%. Check of component intactness/electric wiring.
Motronic ME 7.1.1 - RH	P1297	LH-B TORQUE LIMITING DEVICE	Torque limiter activation due to maximum value exceeded	MAXIMUM VALUE	
Motronic ME 7.1.1 - RH	P1298	RH-B TORQUE COMPARISON CHECK	The torque value issued by the RH bank is not compatible with that for the LH bank	Value not plausible	

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1299	LH-B TORQUE COMPARISON CHECK	The torque value issued by the RH bank is not compatible with that for the LH bank	Value not plausible	
Motronic ME 7.1.1 - RH	P1323	RH STAGE SENSOR	The timing sensor signal is too advanced with respect to the engine rpm signal	Maximum threshold exceeded	Signal panel check. Timing variator check. Engine Timing Check (see manual)
Motronic ME 7.1.1 - RH	P1324	RH STAGE SENSOR	The timing sensor signal is too delayed with respect to the engine rpm signal	Minimum threshold exceeded	Signal panel check. Timing variator check. Engine Timing Check (see manual)
Motronic ME 7.1.1 - RH	P1337	ENGINE REVOLUTION SENSOR	Sporadic malfunction of the engine rpm signal	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1338	LH-B RPM SENSOR	Possible false contact on the rpm sensor cable	Malfunction	Check the installation gap - Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P1339	LH STAGE SENSOR	The timing sensor signal is too advanced with respect to the engine rpm signal	Maximum threshold exceeded	Indicator panel check. Tming variator check. Engine timing check.
Motronic ME 7.1.1 - RH	P1340	LH STAGE SENSOR	The timing sensor signal is too delayed with respect to the engine rpm signal	Minimum threshold exceeded	Indicator panel check. Tming variator check. Engine timing check.
Motronic ME 7.1.1 - RH	P1341	ECU INTERNAL ERROR	Inconsistency detected on the engine rpm input, anomalous conditions which reset the ECU.	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1342	LH-B ECU INTERNAL ERROR	ECU internal error on the engine rpm calculation function. It is however always advisable to check the wiring	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1382	LH DETONATION SENSOR 2	Minimum value reached, probable S.C. to ground	MINIMUM VALUE	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P1383	LH DETONATION SENSOR 1	Minimum value reached, probable S.C. to ground	MINIMUM VALUE	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P1384	LH DETONATION SENSOR 1	Maximum value reached, probable S.C. to Vbatt	MAXIMUM VALUE	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P1385	LH DETONATION SENSOR 2	Maximum value reached, probable S.C. to Vbatt	MAXIMUM VALUE	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P1386	DETONATION CONTROL SYSTEM	Inconsistent detection on the four sensors	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1387	LH-B DETONATION SENSOR MONITORING	Check of the detonation sensor input signal, values inconsistent with the engine conditions	Value not plausible	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P1388	DETONATION CONTROL SYSTEM	Inconsistent detection on the four sensors	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1390	LH-B DETONATION SENSOR MONITORING	TOPOLOGICAL	>; Detonation sensor (cylinders 1-2) ;	
Motronic ME 7.1.1 - RH	P1393	DETONATION CONTROL SYSTEM	Inconsistent detection on the four sensors	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1394	LH-B DETONATION SENSOR MONITORING	Check of the detonation sensor input signal, values inconsistent with the engine conditions	Value not plausible	Check of correct sensor installation and tightening torque (see manual). Check component intactness.
Motronic ME 7.1.1 - RH	P1419	CANISTER PURGE SYSTEM	Hardware defect (breakage) detected on the canister purge device	MAXIMUM VALUE	Check of all system components (canister, tubes, solenoid valve etc.)

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1420	CANISTER PURGE SYSTEM	Hardware defect (breakage) detected on the canister purge device	MINIMUM VALUE	Check of all system components (canister, tubes, solenoid valve etc.)
Motronic ME 7.1.1 - RH	P1421	CANISTER PURGE SYSTEM	Hardware defect (breakage) detected on the canister purge device	Intermittent contact	Check of all system components (canister, tubes, solenoid valve etc.)
Motronic ME 7.1.1 - RH	P1422	CANISTER PURGE SYSTEM	Hardware defect (breakage) detected on the canister purge device	Value not plausible	Check of all system components (canister, tubes, solenoid valve etc.)
Motronic ME 7.1.1 - RH	P1423	LH-B CATALYTIC CONVERTER EFFICIENCY WHEN WARM	A non-efficiency was found on the catalytic converter, it is however advisable to check the sensors' efficiency	Maximum threshold exceeded	Check the Lambda sensors operation using the Diagnosis Tester.
Motronic ME 7.1.1 - RH	P1424	CYL 7-8-9 CATALYTIC CONVERTER EFFICIENCY WHEN WARM	A non-efficiency was found on the catalytic converter, it is however advisable to check the sensors' efficiency	Maximum threshold exceeded	Check the Lambda sensors operation using the Diagnosis Tester.
Motronic ME 7.1.1 - RH	P1427	LH-B CANISTER PURGE SOLENOID VALVE CIRCUIT	Solenoid valve malfunction detected. The error can be validated only while running the anti-evaporation test."	GND SHORT CIRCUIT	Checkout of possible losses within anti-evaporation circuit. Check of fuel pressure sensor. Check of solenoid valve cable.
Motronic ME 7.1.1 - RH	P1428	LH-B CANISTER PURGE SOLENOID VALVE CIRCUIT	Solenoid valve malfunction detected. The error can be validated only while running the anti-evaporation test."	OPEN CIRCUIT	Checkout of possible losses within anti-evaporation circuit. Check of fuel pressure sensor. Check of solenoid valve cable.
Motronic ME 7.1.1 - RH	P1439	LH-B SECONDARY AIR INJECTION SYSTEM	Malfunction during secondary air circuit reading. Insufficient oxygen intake.	MINIMUM VALUE	Check the additional air circuit. Check the wiring/component intactness.
Motronic ME 7.1.1 - RH	P1443	SECONDARY AIR INJECTION SYSTEM, LH BANK	Malfunction during secondary air circuit reading. Insufficient oxygen intake.	MINIMUM VALUE	Check of pump/air flow working condition using the diagnosis. Air circuit efficiency check (partial blocking of the tubes or valves). Pump's electrical wiring check.
Motronic ME 7.1.1 - RH	P1444	CYL.7-8-9 SECONDARY AIR INJECTION SYSTEM	Air flow inlet not correct	MINIMUM VALUE	Check the additional air circuit. Check the wiring/component intactness.
Motronic ME 7.1.1 - RH	P1446	Intervention to protect the cylinder bank catalytic converter	Catalytic converter temperature check: protection active (max)Caused by an excessive temperature value on the catalytic converter.	Activation triggered	Fuel level check. Fuel supply pressure check. Fuel pump operating check. Injector operation check using the diagnosis function. Check of ignition coils and relative connection. Check the spark plugs. Wiring check.
Motronic ME 7.1.1 - RH	P1450	SECONDARY AIR PUMP RELAY CONTROL	The error is validated only during the air pump operation	VBATT SHORT CIRCUIT	In diagnosis mode, check that the Secondary Air Pump is functioning correctly. Wiring check.
Motronic ME 7.1.1 - RH	P1451	SECONDARY AIR PUMP RELAY CONTROL	The error is validated only during the air pump operation	GND SHORT CIRCUIT	In diagnosis mode, check that the Secondary Air Pump is functioning correctly. Wiring check.
Motronic ME 7.1.1 - RH	P1452	SECONDARY AIR PUMP RELAY CONTROL	The error is validated only during the air pump operation	OPEN CIRCUIT	In diagnosis mode, check that the Secondary Air Pump is functioning correctly. Wiring check.
Motronic ME 7.1.1 - RH	P1454	PROTECTION ACTIVATION FOR LH BANK CATALYTIC CONVERTERS	Catalytic converter temperature check: protection active (max). Caused by an excessive temperature value on the catalytic converter.	Activation triggered	Check of fuel level in the tank. Thermocouple operation check. Check HC CO emissions. Using the active diagnosis, check that the injectors are functioning.
Motronic ME 7.1.1 - RH	P1463	LH-B FUEL LEVEL SENSOR	Possible false contact on the fuel level sensor cable	Malfunction	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1464	LH-B FUEL LEVEL SENSOR	Possible false contact on the fuel level sensor or value inconsistent with the calculations made	Value not plausible	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1465	LH-B FUEL LEVEL SENSOR	Possible short circuit to ground on the fuel level sensor or minimum value beyond threshold.	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1466	LH-B FUEL LEVEL SENSOR	Possible short circuit to + Vbatt on the fuel level sensor cable or minimum value beyond threshold	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1467	RH-B THROTTLE ANGLE CHECK SIGNAL	Possible short circuit to + Vbatt on the motor-driven throttle control cable	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1468	RH-B THROTTLE ANGLE CHECK SIGNAL	Possible short circuit to ground on the motor-driven throttle control cable	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1469	RH-B THROTTLE ANGLE CHECK SIGNAL	Possible open circuit on the motor-driven throttle control cable	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1481	RH SECONDARY AIR SOLENOID VALVE	Air bleeding detected with solenoid valve closed	Leakage	Component intactness check
Motronic ME 7.1.1 - RH	P1482	LH SECONDARY AIR SOLENOID VALVE	Air bleeding detected with solenoid valve closed	Leakage	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1483	FAN 1 RELAY CONTROL	Relay control wire for electric cooling fan 1 in short circuit	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1484	FAN 1 RELAY CONTROL	Relay control wire for electric cooling fan 1 in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1487	LH-B SECONDARY AIR VALVE	Leakage found from secondary air inlet circuit	GREAT LEAKAGE	Circuit connections check. Solenoid valve integrity check.
Motronic ME 7.1.1 - RH	P1488	CYL 7-8-9 SECONDARY AIR VALVE	Leakage found from secondary air inlet circuit	GREAT LEAKAGE	Circuit connections check. Solenoid valve integrity check.
Motronic ME 7.1.1 - RH	P1501	FUEL PUMP RELAY 1 CONTROL	Fuel pump relay wire in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1504	LH-B FUEL PUMP 1 RELAY	Main relay control wire in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1505	LH-B FUEL PUMP 1 RELAY	Main relay control wire in short circuit	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1506	LH-B FUEL PUMP 1 RELAY	Malfunction on main relay control cable	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1518	IDLE CONTROL SYSTEM	Idling condition detected beyond the minimum acceptable threshold (e.g. too low engine rpm with accelerator pedal released)	MINIMUM VALUE	With the engine idling, check that the motor driven throttle value is 1.5 - 3% when it operates at a steady speed. With the engine idling, check that the air flow value is 18 - 25 Kg/h when operating at a steady speed.With the engine idling, check that the rpm rate is 1060 +/-40.
Motronic ME 7.1.1 - RH	P1519	IDLE CONTROL SYSTEM	Idling condition detected beyond the maximum acceptable threshold (e.g. too high engine rpm with accelerator pedal released)	Maximum threshold exceeded	With the engine idling, check that the motor driven throttle value is 1.5 - 3% when it operates at a steady speed. With the engine idling, check that the air flow value is 18 - 25 Kg/h when operating at a steady speed.With the engine idling, check that the rpm rate is 1060 +/-40.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1537	CAR SPEED	Vehicle speed data issued on the CAN line by the ABS/ASR system	Value not plausible	Check the ABS/ASR ECU functioning /errors. Check the CAN line wiring
Motronic ME 7.1.1 - RH	P1538	CAR SPEED	Vehicle speed data issued on the CAN line by the ABS/ASR system	Value not plausible	Check the ABS/ASR ECU functioning /errors. Check the CAN line wiring
Motronic ME 7.1.1 - RH	P1539	CAR SPEED	Vehicle speed data issued on the CAN line by the ABS/ASR system	Value not plausible	Check the ABS/ASR ECU functioning /errors. Check the CAN line wiring
Motronic ME 7.1.1 - RH	P1540	CLUTCH INFORMATION ERROR	Information coming from CAN line and issued by the F1 gearbox ECU	Malfunction	Gearbox ECU error check.
Motronic ME 7.1.1 - RH	P1541	FUEL PUMP RELAY 1 CONTROL	Fuel pump relay wire cut-out	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1542	CLUTCH DATA	Defect found on the clutch position sensor. Position values inconsistent (or no signal) with the vehicle working conditions.	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1543	FUEL PUMP RELAY 2 CONTROL	Relay control wire for electric cooling fan 2 in short circuit	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1544	FUEL PUMP RELAY 2 CONTROL	Fuel pump relay wire in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1545	FUEL PUMP RELAY 2 CONTROL	Fuel pump relay wire cut-out	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1546	LH-B FUEL PUMP 2 RELAY	Main relay control wire in short circuit	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1547	LH-B FUEL PUMP 2 RELAY	Main relay control wire in short circuit	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1548	LH-B FUEL PUMP 2 RELAY	Relay control wire cut-out (or in short circuit)	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1556	FUEL TANK EMPTY ERROR	Fuel tank empty condition not plausible	Value not plausible	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - RH	P1557	FUEL TANK EMPTY ERROR	Fuel tank empty condition not plausible	Value not plausible	Check of information or errors on the instrument panel / fuel level sensor
Motronic ME 7.1.1 - RH	P1560	LH-B BATTERY VOLTAGE	Battery voltage value inconsistent with the vehicle operating conditions (e.g. Battery voltage unsteady)	Value not plausible	Check the ground connections. Check the reference voltages on the ECU input (+15 / +30). Check the wiring connection.
Motronic ME 7.1.1 - RH	P1562	LH-B BATTERY VOLTAGE	Battery voltage value low. This error is memorised when the battery voltage drops below 10 Volt	VALUE TOO LOW	Check the alternator charge status. Check the reference voltages on the ECU input (+15 / +30). Check the wiring connection.
Motronic ME 7.1.1 - RH	P1563	LH-B BATTERY VOLTAGE	Battery voltage value high, above the 15Volt diagnosis threshold	VALUE TOO HIGH	Check the alternator charge status. Check the reference voltages on the ECU input (+15 / +30). Check the wiring connection.
Motronic ME 7.1.1 - RH	P1569	LH-B BRAKE SWITCH	Malfunction detected on the brake switch input. The two contacts must activate one after the other, with a different pedal stroke (1st NO - 2nd NC)	Malfunction	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1570	IMMOBILIZER	No communication during ignition between alarm system and engine check	Malfunction	Check the alarm system condition using the SD2 tester. Motronic ECU wiring and Alarm system ECU wiring check.

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1571	RH-B IMMOBILIZER	This error does not allow the engine to be started	CRITICAL ERROR STILL PRESENT	Check the alarm system remote control for proper operation. Using the Diagnosis Tester, check the interface ECU status. Wiring / component intactness check.
Motronic ME 7.1.1 - RH	P1586	EnginE off	A major failure occurred within the gearbox, which required the engine to turn off	Controlled by ECU	Electronically-controlled gearbox system check
Motronic ME 7.1.1 - RH	P1587	ENGINE STOP FROM LH-B GEARBOX ECU	Message coming from the F1 gearbox system in case of serious failure with low speeds of the vehicle (safety)	CRITICAL ERROR STILL PRESENT	Check if the gearbox system has serious failures that may activate the ECU recovery (e.g. clutch failure).
Motronic ME 7.1.1 - RH	P1602	PERMANENT POWER SUPPLY	The direct supply from the battery has reached the minimum value for the ECU operation	MINIMUM VALUE	Battery intactness/wiring check.
Motronic ME 7.1.1 - RH	P1604	LH-B ECU INTERNAL ERROR	Ram internal error detected	CRITICAL ERROR STILL PRESENT	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P1605	LH-B ECU INTERNAL ERROR	Rom internal error detected	CRITICAL ERROR STILL PRESENT	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P1609	ROADBED SENSOR	A cut-out on the wire of the accelerometer for uneven roadbed has been detected	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1610	ROADBED SENSOR	Open circuit detected on the roadbed sensor input.	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1611	PERMANENT POWER SUPPLY	The supply voltage is below the minimum permitted level.	VALUE TOO LOW	Check the battery charge status and voltage. Check the connection between the ECU, the GND pin and the VBAT pin. Check the vehicle no-load absorption.
Motronic ME 7.1.1 - RH	P1613	FAULTY ECU	Internal EEProm faulty	Value not plausible	The ECU is faulty.
Motronic ME 7.1.1 - RH	P1614	LH-B ECU INTERNAL ERROR	Internal EEProm faulty	CRITICAL ERROR STILL PRESENT	Internal error. Delete the errors and check the ECU for proper operation. If the error persists, replace the ECU.
Motronic ME 7.1.1 - RH	P1617	ROADBED SENSOR	A malfunction of the accelerometer sensor for roadbed or probable S.C. has been detected to Vbatt	VALUE TOO HIGH	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1619	ROADBED SENSOR	High value read on the roadbed sensor input. Possible S.C. to +VBATT	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1620	K LINE	Short circuit to Vbatt on the serial line K	VBATT SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1621	K LINE	Short circuit to ground on the serial line K	GND SHORT CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1622	K LINE	Serial line K wire cut out	OPEN CIRCUIT	Wiring / component intactness check
Motronic ME 7.1.1 - RH	P1626	ASR TIMEOUT	ASR message not received	Malfunction	ABS/ASR ECU check.
Motronic ME 7.1.1 - RH	P1627	F1 GEARBOX TIMEOUT	Gearbox ECU message not received	Malfunction	Gearbox ECU check.
Motronic ME 7.1.1 - RH	P1628	MONITORING OF MESSAGES BETWEEN THE TWO RH-B BANKS	CAN messages between the two banks not timed	Value not plausible	Wiring / component intactness check

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Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Motronic ME 7.1.1 - RH	P1630	RH-B ECU CONFIGURATION CHECK	Wrong bank configuration (defined as RH or LH)	Value not plausible	Wiring and system intactness check.
Motronic ME 7.1.1 - RH	P1632	CAN MESSAGES TIMEOUT FROM LH-B GEARBOX ECU	No CAN messages were read by the F1Gearbox system within the established time	Malfunction	Electronically-controlled gearbox system check
Motronic ME 7.1.1 - RH	P1279	CYL.7-8-9 FRONT LAMBDA SENSOR HEATING CHECK	Possible short circuit to ground on the Lambda sensor heating cable	GND SHORT CIRCUIT	Wiring / component intactness check
NCS Suspension Node	C1001	ECU IN ERROR CONDITION	ECU internal error: the error is found during the Key-ON phase through the POST (Power On Self Test).	The error can be detected at Power On, with the engine running and the vehicle in motion.	ECU Software Error, the ECU must be replaced.
NCS Suspension Node	C1011	BATTERY VOLTAGE	The battery power supply voltage is above the 16V threshold.	Maximum threshold exceeded	The error can be detected at Power On, with the engine running and the vehicle in motion.
NCS Suspension Node	C1021	ACCELERATION SENSOR FOR FRONT RIGHT-HAND WHEEL	The error is detected when the vehicle speed is > 30 km/h. The number of signal variations summed up is lower than the prescribed value. Check: 1) The sensor power supply	2) The sensor operation. The error is stored in the historical records only upon the following	
NCS Suspension Node	C1022	ACCELERATION SENSOR FOR FRONT LEFT-HAND WHEEL	The error is detected when the vehicle speed is > 30 km/h. The number of signal variations summed up is lower than the prescribed value. Check: 1) The sensor power supply	2) The sensor operation. The error is stored in the historical records only upon the following	
NCS Suspension Node	C1031	ACCELERATION SENSOR FOR FRONT RIGHT-HAND BODY	The error is detected when the vehicle speed is > 30 km/h. The number of signal variations summed up is lower than the prescribed value. Check: 1) The sensor power supply	2) The sensor operation. The error is stored in the historical records only upon the following	
NCS Suspension Node	C1032	ACCELERATION SENSOR FOR FRONT LEFT-HAND BODY	The error is detected when the vehicle speed is > 30 km/h. The number of signal variations summed up is lower than the prescribed value. Check: 1) The sensor power supply	2) The sensor operation. The error is stored in the historical records only upon the following	
NCS Suspension Node	C1033	ACCELERATION SENSOR FOR REAR RIGHT-HAND BODY	The error is detected when the vehicle speed is > 30 km/h. The number of signal variations summed up is lower than the prescribed value. Check: 1) The sensor power supply	2) The sensor operation. The error is stored in the historical records only upon the following	
NCS Suspension Node	C1201	FRONT RIGHT-HAND VALVE ERROR	The error was caused by a cut-out in the connection between the ECU and the valve. According to the indications from the hardware output stage, the current regulator is saturated and cannot control the component current. The current regulator		

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
NCS Suspension Node	C1202	FRONT LEFT-HAND VALVE ERROR	The error was caused by a cut-out in the connection between the ECU and the valve. According to the indications from the hardware output stage, the current regulator is saturated and cannot control the component current. The current regulator		
NCS Suspension Node	C1203	REAR RIGHT-HAND VALVE ERROR	The error was caused by a cut-out in the connection between the ECU and the valve. According to the indications from the hardware output stage, the current regulator is saturated and cannot control the component current. The current regulator		
NCS Suspension Node	C1204	REAR LEFT-HAND VALVE ERROR	The error was caused by a cut-out in the connection between the ECU and the valve. According to the indications from the hardware output stage, the current regulator is saturated and cannot control the component current. The current regulator		
NCS Suspension Node	C1301	SENSOR 1 SUPPLY VOLTAGE	The ECU power supply voltage is above 5.5V.		
NCS Suspension Node	C1302	SENSOR 2 SUPPLY VOLTAGE	The ECU power supply voltage is above 5.5V.		
NCS Suspension Node	U1700	NO COMMUNICATION WITH NBC	At Key-On, an error is found when no communication is in progress on the CAN line. EOL CONFIGURATION Message Not Read by NBC		
NCS Suspension Node	U1701	NO COMMUNICATION WITH NCM	At Key-On, an error is detected when the communication via CAN line is in progress. The input signal from the NCM is invalid.		
NCS Suspension Node	U1706	NO COMMUNICATION WITH NFR	At Key-On, an error is detected when the communication via CAN line is in progress. The input signal from the NBC is invalid.		
NCS Suspension Node	U1711	NO COMMUNICATION WITH NCR	At Key-On, an error is detected when the communication via CAN line is in progress. Message F1-MOT not read.		
NCS Suspension Node	U1712	NO COMMUNICATION WITH NAS	At Key-On, an error is detected when the communication via CAN line is in progress. The input signal from the NAS is invalid.		
NFR Node Brakes	C1100	EOL CONFIGURATION NOT PROGRAMMED	Error due to failed end of line configuration (EOL) set on car and to what was set on the braking node.	ECU NOT SET	Cause of this error can be the incorrect programming of the EOL configuration on car or the installation of a not-updated ECU with correct parameters.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
NFR Node Brakes	C1103	EOL CONFIGURATION CHANGED	The error is due to an inconsistency between the end of line configuration (EOL) set on car and what was set on the braking node	ECU NOT SET	Cause of this error can be the incorrect programming of the EOL configuration on car or the installation of a not-updated ECU with correct parameters.
NFR Node Brakes	C1200	FRONT RH SPEED SENSOR: ELECTRICAL ERROR	Error detected when there is no speed signal from the front right toothed wheel sensor. Caused by: fault in the sensor or open circuit on the connection between the ECU and the sensor. The error is memorised in the historical records when the conditions are restored	Check the connection between the sensor and the electrical wiring. Check the connection between the sensor and the ECU on pins 5 and 4. If the connection is correct, replace the sensor.	
NFR Node Brakes	C1205	FRONT LH SPEED SENSOR: ELECTRICAL ERROR	Error detected when there is no speed signal from the front left toothed wheel sensor. Caused by: fault in the sensor or open circuit on the connection between the ECU and the sensor. The error is memorised in the historical records when the conditions are restored	Check the connection between the sensor and the electrical wiring. Check the connection between the sensor and the ECU on pins 6 and 7. If the connection is correct, replace the sensor.	
NFR Node Brakes	C1210	REAR RH SPEED SENSOR: ELECTRICAL ERROR	Error detected when there is no speed signal from the rear right toothed wheel sensor. Caused by: fault in the sensor or open circuit on the connection between the ECU and the sensor. The error is memorised in the historical records when the conditions are restored	Check the connection between the sensor and the electrical wiring. Check the connection between the sensor and the ECU on pins 1 and 2. If the connection is correct, replace the sensor.	
NFR Node Brakes	C1215	REAR LH SPEED SENSOR: ELECTRICAL ERROR	Error detected when there is no speed signal from the rear left toothed wheel sensor. Caused by: fault in the sensor or open circuit on the connection between the ECU and the sensor. The error is memorised in the historical records when the conditions are restored	Check the connection between the sensor and the electrical wiring. Check the connection between the sensor and the ECU on pins 8 and 9. If the connection is correct, replace the sensor.	
NFR Node Brakes	C1201	FRONT RH SPEED SENSOR: ERROR	Error detected when the speed signal from the front right toothed wheel sensor is unstable or not constant. If the signal is intermittent, the ECU switches the fault lamp on when a speed of over 12km/h is reached. The sensor is faulty or is not correctly	Malfunction	Check the connection between the sensor and the electrical wiring. Check the connection between the sensor and the ECU on pins 5 and 4. If the connection is correct, replace the sensor.
NFR Node Brakes	C1206	FRONT LH SPEED SENSOR: ERROR	Error detected when the speed signal from the front left toothed wheel is unstable or not constant. If the signal is intermittent, the ECU switches the fault lamp on when a speed of over 12km/h is reached. The sensor is faulty or is not correctly	Malfunction	Check the connection between the sensor and the electrical wiring. Check the connection between the sensor and the ECU on pins 6 and 7. If the connection is correct, replace the sensor.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
NFR Node Brakes	C1211	REAR RH SPEED SENSOR: ERROR	Error detected when the speed signal from the rear right toothed wheel sensor is unstable or not constant. If the signal is intermittent, the ECU switches the fault lamp on when a speed of over 12km/h is reached. The sensor is faulty or is not correctly	Malfunction	Check the connection between the sensor and the electrical wiring. Check the connection between the sensor and the ECU on pins 1 and 2. If the connection is correct, replace the sensor.
NFR Node Brakes	C1216	REAR LH SPEED SENSOR: ERROR	Error detected when the speed signal from the rear left toothed wheel sensor is unstable or not constant. If the signal is intermittent, the ECU switches the fault lamp on when a speed of over 12km/h is reached. The sensor is faulty or is not correctly	Malfunction	Check the connection between the sensor and the electrical wiring. Check the connection between the sensor and the ECU on pins 8 and 9. If the connection is correct, replace the sensor.
NFR Node Brakes	C1226	RH FRONT ABS EXHAUST VALVE	Error caused by a malfunction in the front RH exhaust valve. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles and it is then	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1231	RH REAR ABS INTAKE VALVE	Error caused by a malfunction in the front RH intake valve. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles and then	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1236	LH FRONT ABS EXHAUST VALVE	Error caused by a malfunction in the front LH exhaust valve. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles, then	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1241	LH FRONT ABS INTAKE VALVE	Error caused by a malfunction in the front LH intake valve. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
NFR Node Brakes	C1246	RH REAR ABS EXHAUST VALVE	Error caused by a malfunction in the rear RH exhaust valve. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles and it is then	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1251	RH FRONT ABS INTAKE VALVE	Error caused by a malfunction in the rear RH intake valve. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles, then	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1256	LH REAR ABS EXHAUST VALVE	Error caused by a malfunction in the rear LH exhaust valve. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles and then	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1261	LH REAR ABS INTAKE VALVE	Error caused by a malfunction in the rear LH intake valve. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1260	PRIMARY VALVE 1	Error caused by a malfunction in primary valve 1. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles, then it is cancelled.	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1262	PRIMARY VALVE 2	Error caused by a malfunction in primary valve 2. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles, then it is cancelled.	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
NFR Node Brakes	C1265	PILOT VALVE 1 (USV1)	Error caused by a malfunction in pilot valve 1. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles, then it is cancelled. S	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1267	PILOT VALVE 2 (USV2)	Error caused by a malfunction in pilot valve 2. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU for 20 KEY-ON/KEY-OFF cycles, then it is cancelled. S	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1266	SCAVENGE PUMP	Error caused by a malfunction in the hydraulic circuit pump. The pump is not powered or is faulty. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains stored in the ECU	Check that the hydraulic system is correctly connected. If it is properly connected, replace the ECU.	
NFR Node Brakes	C1276	SOLENOID VALVE INPUT	This error is detected when no correct power supply is provided to the solenoid valve unit. Caused by: Defective fuse, VALVE RELAY faulty, short circuit or open cicuit on the wiring supplying power to the solenoid valve unit. The err	Check the connection between the electrical system's wiring and the ECU on pins 17 and 18. Check that voltage is supplied to the pins. If so, replace the ECU.	
NFR Node Brakes	C1340	FOOT BRAKE PEDAL SWITCH	Discontinuous signal from brake pedal switch. The brake pedal switch is faulty or the wiring is malfunctioning. The error is memorised in the historical records only when the correct conditions are restored. An error which is no longer present remains memorised in the ECU	Check the connection between the switch on the brake pedal and the electrical wiring. Check the connection between the switch on the brake pedal and the ECU on pin 14. If the connection is correct, replace the switch.	
NFR Node Brakes	C1341	BRAKE LIGHT ACTIVATION RELAY (PAR. IGN.)	Error on the brake light activated by the cruise control		
NFR Node Brakes	C1355	SIDE ACCELERATION SENSOR (AY SENSOR)	Error on side acceleration sensor. In case of error activation the VDC and ASR operations are deactivated.	Open circuit, short circuit to vbatt or short circuit to GND on side acceleration sensor or corresponding cable.	An error is detected as the sensor supply voltage is < 0,3 V or >4,7 V. An error is detected as the accelerations recorded are not in the application range and the conditions remain for a period superior to 2 sec.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
NFR Node Brakes	C1360	YAW RATE SENSOR	Error on the yaw sensor. In case of error activation the VDC e ASR operations are deactivated.	Open circuit, short circuit to vbatt or short circuit to GND on yaw sensor or corresponding cable.	An error is detected if the signal voltage (pin 41) is <0,3 V or >4,7 V. An error is detected if the recorded accelerations are not in the application range and the conditions remain for a period superior to 2 seconds. Every 40 msec a test is carried out on pin 9 and in case of wrong values a failure is signalled.
NFR Node Brakes	C1460	PRESSURE SENSOR	Error on the pressure sensor. In case of activation error the VDC, ASR and ABS operations are deactivated.	Open circuit, short circuit to vbatt or short circuit to GND on side acceleration sensor or corresponding cable.	An error is detected if the supply voltage sensor is <0,3 V or >4,7 V. An error is detected if, after key-on and pump off and pedal off, the pressure is not 0 but it is +/- 15 bar.
NFR Node Brakes	C1500	WHEELS SPEED PLAUSIBILITY ERROR (LAMBDA 6)	Error due to an inconsistency among signals from toothed wheels.	Value calculated not plausible	The error can be detected while the car is moving and it is stored when the ABS intervention is longer than 60 continuative seconds on one or more wheels.
NFR Node Brakes	C1504	ACTUATION DEFECT			
NFR Node Brakes	C1505	STEERING ANGLE SENSOR	Error on steering angle sensor. In case of activation error the VDC and ASR operations are deactivated.	Open circuit, short circuit on CAN line or short circuit on GND of CAN line on side acceleration sensor or on the corresponding wiring.	The error is managed via CAN line by an error message of the steering angle node. An error is signalled if the steering angle value is out of the mechanic steering range. The error was caused by an inconsistency between indicated value and the one calculated by the other sensors of the vehicle.
NFR Node Brakes	C1506	TEMPORARY INTERFERENCE	The ECU detects a difference in the wheels speed.	The error is set if the wheel speed signals difference exceeds 6 km/h	Check that the speed sensors are in proper working condition and that they are correctly fitted.
NFR Node Brakes	C1507	SERIAL LINE	Communication error between ECU and instrument panel	Communication Error	Check the wiring for intactness.
NFR Node Brakes	C1508	STEERING ANGLE SENSOR NOT CALIBRATED	Calibration error on the steering angle sensor (NAS), the VDC warning light is active. In case of activations error the VDC and ASR operations are deactivated.	Calibration failed	This type of error is detected after 15 initialising attempts by the CAN line.
NFR Node Brakes	C1520	BUS CAN	General error on CAN line. In case of error activation the VDC and ASR operations are deactivated.	Open circuit, short circuit on CAN line or short circuit on CAN line GND or short circuit among lines.	This type of error is detected after 15 initialising attempts by the CAN line.
NFR Node Brakes	C1521	ENGINE CAN MESSAGES ERROR	Error on CAN line to engine ECU. No Engine Ecu (NCM)	No CAN network data	This type of error is detected as no messages are received from the engine ECU.
NFR Node Brakes	C1522	NO COMMUNICATION WITH FAILURE WARNING LIGHTS (NQS)	CAN communication error between ECU and instrument panel due to the activation of the ESP and ABS warning lights.	Check the wiring for intactness.	
NFR Node Brakes	C1523	CAN MESSAGES ERROR (ACC)	No message received by the Cruise Control	Communication Error	The error is activated if no message is received after 1 sec.
NFR Node Brakes	C1607	ECU ERROR	Ecu internal error. System is Shutdown, EBD, ABS and VDC warning lights are all activated.	INTERNAL ECU ERROR	The ECU repeatedly checks its internal parts, in case of failure this error is stored.
NFR Node Brakes	C1802	SUPPLY VOLTAGE	Ecu feeding error. In case of error activation EBD, ABS and VDC operations are deactivated. EBD, ABS and VDC warning lights are all activated.	This error is stored only at car speed > 6 km/h. Vbatt < 9,8 Volt. Vbatt > 17,4 Volt	Check battery voltage, in case of need replace it. Check electrical wiring integrity.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
NFR Node Brakes	C1881	VARIANT CODING	Car configuration error	ECU NOT SET	This error is stored when the control between Variant Code received via CAN and its checksum do not correspond.
NVO Steering Wheel Node	9001	PASSENGER COMPARTMENT LIGHTING ACTIVATION	An error has occurred in the knob parameter reading	INVALID SIGNAL	The error is acknowledged when the position selected cannot be identified or when two positions are detected at the same time. The error detection is always active at key-on
NVO Steering Wheel Node	9002	REAR CENTRAL CEILING LIGHT ACTIVATION	Error detected on the ESPOFF output	Over maximum threshold (S.C. to Vbat)	The error detection is always active at key-on. The error is detected when the output voltage measured is above the maximum level.
NVO Steering Wheel Node	9003	REAR, LEFT-HAND POWER WINDOW MOTOR'S CURRENT	An error was detected on the START button	Over maximum threshold (S.C. to Vbat)	The error detection is always active at key-on. The error is detected when the output voltage measured is above the maximum level.
NVO Steering Wheel Node	9007	CROWN LED ERROR	An error was detected on the crown LED	SHORT CIRCUIT	The error detection is always active at key-on. The error is detected when the output voltage measured is above the maximum level.
NVO Steering Wheel Node	D601	CAN STATUS B_NCM NOT RECEIVED	The ENGINE ECUs status message was not received		
NVO Steering Wheel Node	D602	CAN STATUS B_NFR NOT RECEIVED	The ABS ECU status message was not received		
NVO Steering Wheel Node	D603	CAN STATUS B_NCA_NCR NOT RECEIVED	The GEARBOX (NCR or NCA) ECU status message was not received		
NVO Steering Wheel Node	D604	CAN STATUS B_NCS NOT RECEIVED	The SUSPENSION ECU status message was not received		
NVO Steering Wheel Node	D605	CAN STATUS B_NCD NOT RECEIVED	The DIFFERENTIAL ECU status message was not received		
NVO Steering Wheel Node	D606	ECU Fail STATUS B_NCM	A FAIL STATUS message was detected by the engine ECUs	ECU in Fail mode	The error detection is always active at key-on.
NVO Steering Wheel Node	D607	ECU Fail STATUS B_NFR	A FAIL STATUS message was detected by the ABS ECU	ECU in Fail mode	The error is set if the wheel speed signals difference exceeds 6 km/h
NVO Steering Wheel Node	D608	ECU Fail [STATUS] B NCA NCR	A FAIL STATUS message was detected by the electronically controlled GEARBOX unit (NCR) or the automatic GEARBOX unit (NCA)	ECU in Fail mode	The error is activated if no message is received after 1 sec.
NVO Steering Wheel Node	D609	ECU Fail STATUS B_NCS	A FAIL STATUS message was detected by the SUSPENSION ECU	ECU in Fail mode	In the case of an output short circuit, the warning light turns on permanently. In the case of a burnt lamp, the warning light is always off.
NVO Steering Wheel Node	D60A	ECU Fail STATUS B_NCD	A FAIL STATUS message was detected by the DIFFERENTIAL ECU	ECU in Fail mode	The error is detected when the pump is activated
Selespeed Gearbox	P0715	GEARBOX INPUT REVOLUTIONS	Gearbox input r.p.m inconsistent (or no signal) with the vehicle working conditions		
Selespeed Gearbox	P0720	VEHICLE SPEED	Gearbox output r.p.m inconsistent (or no CAN information) with the vehicle working conditions		
Selespeed Gearbox	P0725	ENGINE RPM	Inconsistent engine rpm (or no CAN information) with the vehicle working conditions		

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Selespeed Gearbox	P1741	ENGAGEMENT POTENTIOMETER	Gear-shift value inconsistent (or no signal) with the levers' conditions of use		
Selespeed Gearbox	P1742	SELECTION POTENTIOMETER	Gear selection value inconsistent (or no signal) with the vehicle working conditions		
Selespeed Gearbox	P1710	CLUTCH POSITION SENSOR	Defect found on the clutch position sensor. Position values inconsistent (or no signal) with the vehicle working conditions.		
Selespeed Gearbox	P1720	OIL PRESSURE SENSOR	Oil pressure out of range (or no signal)		
Selespeed Gearbox	P1745	SWITCH UP	Defect found on the UP switch. Switch condition inconsistent with the levers' conditions of use		
Selespeed Gearbox	P1746	SWITCH STBY	Defect found on the lever control switch, connected in parallel to the UP and DOWN switch. Switch status inconsistent with the levers' conditions of use		
Selespeed Gearbox	P1747	REVERSE GEAR SWITCH	Defect found on the dashboard reverse switch. Switch status inconsistent with the levers' conditions of use		
Selespeed Gearbox	P1748	SWITCH DOWN	Defect found on the DOWN switch. Switch condition inconsistent with the levers' conditions of use		
Selespeed Gearbox	P1749	BATTERY VOLTAGE	Battery voltage value low. This error is memorised when the battery voltage drops below 10 Volt	DEFECTIVE SIGNAL	Wiring / component intactness check
Selespeed Gearbox	P1750	SELECTION SV 1	Solenoid valve control wire cut-out (or in short circuit)		
Selespeed Gearbox	P1751	SPEED SELECTION SV2	Solenoid valve control wire cut-out (or in short circuit)		
Selespeed Gearbox	P1752	SPEED SELECTION SV3	Solenoid valve control wire cut-out (or in short circuit)		
Selespeed Gearbox	P1730	PUMP RELAY DRIVER	Relay control wire cut-out (or in short circuit)		
Selespeed Gearbox	P1735	SELF-POWERING RELAY DRIVER	The self-supply relay is incorporated in the gearbox ECU. If this error occurs, the ECU must be replaced.		
Selespeed Gearbox	P1755	IGNITION ENABLE RELAY DRIVER	Relay control wire cut-out (or in short circuit)		
Selespeed Gearbox	P1756	SV FOR UNEVEN GEAR ENGAGEMENT	Solenoid valve control wire cut-out (or in short circuit)		
Selespeed Gearbox	P1757	SV FOR EVEN GEAR ENGAGEMENT	Solenoid valve control wire cut-out (or in short circuit)		
Selespeed Gearbox	P1758	CLUTCH SV	Solenoid valve control wire cut-out (or in short circuit)	NO SIGNAL	Detected with key on but not starting if the analogue feedback signal is incorrect for more than 0.1 seconds.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Selespeed Gearbox	P1759	REVERSE GEAR LIGHTS' RELAY DRIVER	Relay control wire cut-out (or in short circuit)	OVER MAXIMUM THRESHOLD	Detected with key ON, not during start-up, with reverse gear requested and selection solenoid valve 3 off. The feedback signal does not correspond to the operating conditions for more than 0.05 seconds.
Selespeed Gearbox	P1760	FOOT BRAKE PEDAL SWITCH	CAN data for brake switch status not available.		
Selespeed Gearbox	P1764	SAFETY MICRO ERROR	Error inside the ECU, on the second safety micro-switch (watchdog)	DEFECTIVE SIGNAL	Detected at key ON.
Selespeed Gearbox	P1765	GROUND_DETACHMENT ERROR	It can be a sporadic error. The error is due to a lack of connection to the TCU ground. A wrong contact / wire cut-out on one of the ECU ground references has been detected.	DEFECTIVE SIGNAL	Detected during ECU activation for driver door opening and whenever clutch activation is requested.
Selespeed Gearbox	P1767	EEPROM ERROR	Ecu internal error which is set in the event that the checksum in the EEPROM self-setting variable area is wrong	DEFECTIVE SIGNAL	Detected at ECU activation.
Selespeed Gearbox	P1770	GEAR ENGAGEMENTS WITH WRONG SHIFTS	The error counter is activated when a gear is selected with a selection value out of range	DEFECTIVE SIGNAL	Detected during gear shifting, when gear is engaged, without errors on the selection sensor.
Selespeed Gearbox	P1771	GEARBOX INPUT HIGH RPM	This error is activated when the gearbox input rpm, the vehicle speed and the engaged gear are not plausible.	DEFECTIVE SIGNAL	Detected during gear shifting, with clutch closed.
Selespeed Gearbox	P1772	OPPOSITE GEAR ENGAGEMENT	The error is set when the value read on the potentiometers, following a gear-shift, indicates a gear which is opposite to the one that the user wished to engage	DEFECTIVE SIGNAL	Detected during gear shifting, when gear is engaged.
Selespeed Gearbox	P1773	CLUTCH BEYOND PIS	This error is activated when the ECU recognizes the gearbox primary shaft driving with the clutch beyond the touch point (P.I.S.) (open).	DEFECTIVE SIGNAL	Detected during gear shifting, when gear is engaged, without errors on the position sensor.
Selespeed Gearbox	P1774	CLUTCH HYDRAULIC FAILURE	This error is activated when the ECU detects a wrong clutch movement through the clutch sensor	DEFECTIVE SIGNAL	Detected while waiting for pick-up, or during pick-up
Selespeed Gearbox	P1775	GEAR RELEASE FAILED	The error is set when, following a gearshift request, the gear previously engaged cannot be released	DEFECTIVE SIGNAL	Detected during gear shifting, when gear is disengaged.
Selespeed Gearbox	P0600	CAN ERROR_CODE	CAN line wires cut-out / short circuit or communication error from the network	DEFECTIVE SIGNAL	Detected with ECU on, but not during start-up, if any data is not available over the CAN.
Selespeed Gearbox	P1766	RESET_ERR	This is a software reset error occurring inside the gearbox ECU.	DEFECTIVE SIGNAL	The ECU is faulty.
Selespeed Gearbox	P1790	CLUTCH POSITION PRIMARY_VAC SENSOR	Primary signal for clutch position sensor out of range. Possible failure either in the sensor primary or in the ECU internal stage	DEFECTIVE SIGNAL	Check the wiring on Pin 34 (primary output 1) and Pin 35 (secondary input 1) / component intactness.

F430 ERROR CODES					
Control Module	**Error Code**	**Malfunction Source**	**Malfunction Description**	**Malfunction Type**	**Diagnostics**
Selespeed Gearbox	D0601	CAN MESSAGES TRANSMISSION	ECU transmission failure. Probable internal fault in communications interface	DEFECTIVE SIGNAL	Check the wiring (Pin 33 and Pin 45) / component intactness.
Selespeed Gearbox	D0701	CAN MESSAGES RECEIVED FROM ENGINE CHECK	No information on CAN	The error activates after a set time if the ECU does not receive signals from the ECU in question.	Using the diagnosis tester, check the operation of the Engine Controller (NCM) / CAN line wiring (Pin 33 and Pin 45)
Selespeed Gearbox	D0706	CAN MESSAGES RECEIPT FROM BRAKING NODE	No information on CAN	The error activates after a set time if the ECU does not receive signals from the ECU in question.	Using the diagnosis tester, check the operation of the Brake Node (NFR) / CAN line wiring check (Pin 33 and Pin 45)