

OV00.01-P-1001-28DA	Abbreviations of signal and circuit designations for wiring diagrams	Model 211	
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Abbreviation	Designation	Notes
(-)SH	Ground (rear sensors)	
(-)SV	Ground (front sensors)	
(+)	Positive	
(+)SH	Rear sensor supply	
(+)SV	Front sensor supply	
(-)	Minus	
+5V	Valid for +5 V voltage supply	
15	Switched positive	
15 g	Switched positive, fused	
15R	Switched positive, in ignition position 1, 2 & 3	
15X	Switched positive, in ignition position 2	
24V	Antenna supply 24V	
30	Battery voltage, positive (continuous positive)	
30z	Circuit 30 1st input	
30_UVS	Circuit 30 roll bar and soft top control (electronics)	
31	Return line to battery negative or ground, direct	
31b	Return line to battery negative or ground via switch or relay, switched negative	
49	Turn signal generator input	
	Turn signal generator output	
49L	Left turn signal lamp	
49R	Right turn signal lamp	
50	Starter control (direct)	
53	Wiper motor, input (+)	
	Wiper motor shunt winding	
54	Stop lamp	
55	Front fog lamp	
55L	Left fog lamp	
55R	Right fog lamp	
56	Headlamp	
	Left standing lamp / parking lamp	
	Right standing lamp / parking lamp	
56a	High beam and high beam indicator	
56a L	Left high beam	
56a R	Right high beam	
56b	Low beam	
56b L	Left low beam	
56b R	Right low beam	
58	Position, tail, license plate and instrument lamps	
	Variable instrument/switch illumination	
58d A	Circuit 58d supply	
58d_A_BH	58d load assist	
58L	Left standing lamp	
58R	Right standing lamp	
5V	Supply 5V	
5V KMD	Refrigerant pressure sensor supply	
61	Alternator charge indicator	
85	Negative or ground winding end	
86	Start of winding	
87	Input	
87a	First output (NC side)	
87b	Second output	
87c	Third output	

87ME1	87 Motor electronics 1	
87ME2	87 Motor electronics 2	
87ME3	87 Engine electronics 3	
A - Sp. 1	Outside mirror 1	
A - Sp. 2	Outside mirror 2	
AAV	Activated charcoal filter - shutoff valve	
AB	Airbag	
AB F+	Driver airbag positive	
AB F-	Driver airbag negative	
AB1, BF	Front passenger airbag 1	
AB1, FA	Driver airbag 1	
AB2, BF	Front passenger airbag 2	
AB2, FA	Driver airbag 2	
AFL	Automatic driving lamps	
Exhaust gas recirculation positioner 1	Exhaust gas recirculation positioner 1 signal	
ACSR [AKSE]	Automatic child seat recognition	
AL(-)	Exit lamp ground	
AL(+)	Exit lamp (+)	
AM	Amplitude modulation	
AM/FM	Amplitude modulation / frequency modulation	
Ant.	Antenna	
AS	Dim / lock	
AT	Outside air temperature sensor	
A_HSK_A	Rear shelf side flaps FOLD OUT output	
A_HSK_E	Rear shelf side flaps FOLD IN output	
A_P_ZUE1	Ignition signal 1 Cylinder 1 ignition coil	
A_P_ZUE2	Ignition signal 2 Cylinder 2 ignition coil	
A_P_ZUE3	Ignition signal 3 Cylinder 3 ignition coil	
A_P_ZUE4	Ignition signal 4 Cylinder 4 ignition coil	
A_P_ZUE5	Ignition signal 5 Cylinder 5 ignition coil	
A_P_ZUE6	Ignition signal 6 Cylinder 6 ignition coil	
A_S_HAV	Heating shutoff valve	
A_S_HFM_S_L	Voltage supply (12V), secondary air injection pump (SULEV)	
A_S_SL P	Secondary air injection pump relay 1	
A_S_SLV	Secondary air valve	
A_S_TK	Electronic switchover valve (EUV), tumble flap positioner	
A_T_DCM	Throttle valve actuator motor (negative)	
A_T_DCP	Throttle valve actuator motor (positive)	
A_T_ECO	Power steering pump pressure relief valve (ECO valve)	
A_T_KWTHS	3-plate thermostat	
A_T_LSH1HK	Heater, oxygen sensor in catalytic converter, right bank	
A_T_LSH2HK	Heater, oxygen sensor in catalytic converter, left bank	
A_T_LSHVK1	Heater, oxygen sensor upstream of catalytic converter, right bank	
A_T_LSHVK2	Heater, oxygen sensor upstream of catalytic converter, left bank	
A_T_NWSA1	Exhaust camshaft positioner, right bank	
A_T_NWSA2	Exhaust camshaft positioner, left bank	
A_T_NWSE1	Inlet camshaft positioner, right bank	
A_T_NWSE2	Inlet camshaft positioner, left bank	
A_T_SU/SUV1	Intake manifold switchover valve	
A_U_5VG1M	5V sensor supply 1	
A_U_5VG2M	5V sensor supply 2	
A_U_LSU1VM	Oxygen sensor upstream of catalytic converter, right bank (virtual ground)	
A_U_LSU2VM	Oxygen sensor upstream of catalytic converter, left bank (virtual ground)	
A_U_UIP	5V sensor supply, throttle valve potentiometer	
BBV	Brake wear indicator	
BBV VL	Left front brake wear	
BFS	Brake fluid switch	
BL(+)	Turn signal lamp positive	

BL (-)	Turn signal lamp negative	
BLA	Stop lamp output	
BLS	Stop lamp switch NO contact	
BLS_A	Stop light switch contact output	
BRFL	Brake fluid level	
BS	Stop lamp switch NC contact	
B_D_LIN	LIN interface	
CAN-B H	CAN interior bus, high	
CAN-B L	CAN interior bus, low	
CAN-C H	CAN engine compartment bus, high	
CAN-C L	CAN engine compartment low	
CANEHB_H_A	CAN electrohydraulic brake high	
CANEHB_L_A	CAN electrohydraulic brake low	
Crash	Crash signal	
D+	One-touch upshift	
D-	One-touch downshift	
D2B IN	D2 bus input	
D2B OUT	D2 bus output	
Data +	Serial interface positive	
Data -	Serial interface negative	
DF HL	Left rear rotational frequency	
DF HR	Right rear rotational frequency	
DF VL	Left front rotational frequency	
DF VR	Right front rotational frequency	
DFA VL	Left front rotational frequency output	
DFA VR	Right front rotational frequency output	
DFHL_12V_A	Left rear rpm sensor signal (voltage signal)	
DFHL_A_A	Left rear rpm sensor output	
DFHL_S_A	Left rear rpm sensor signal	
DFHR_12V_A	Right rear rpm sensor signal (voltage signal)	
DFHR_A_A	Right rear rpm sensor output	
DFHR_S_A	Right rear rpm sensor signal	
DFVL_12V_A	Left front rpm sensor signal (voltage signal)	
DFVL_A_A	Left front rpm sensor output	
DFVL_S_A	Left front rpm sensor signal	
DFVR_12V_A	Right front rpm sensor signal (voltage signal)	
DFVR_A_A	Right front rpm sensor output	
DFVR_S_A	Right front rpm sensor signal	
DG +5V	Pressure sensor +5V	
DG Sig.	Pressure sensor signal	
DGM	Pressure sensor ground	
Diag.	Diagnosis	
DIAG_A	Diagnosis output	
DST - S	Fuel tank pressure sensor signal	
D_S_KW Out	Crankshaft sensor signal OUT	
E/A	"On / Off"	
EA DS	Pressure sensor analog input	
EA IP1S	Actual value potentiometer 1 sliding contact analog input	
EA IP2S	Actual value potentiometer 2 sliding contact analog input	
EA ULK1	Recirculated air flap 1 analog input	
ATA	ATA [EDW] signal	
ETC	Radiator fan (PWM signal)	
EKP	Fuel pump relay	
EV 1	Injection valve, cylinder 1	
EV 2	Injection valve, cylinder 2	
EV 3	Injection valve, cylinder 3	
EV 4	Injection valve, cylinder 4	
EV 5	Injection valve, cylinder 5	

EV 6	Injection valve, cylinder 6	
E_A_DS	Intake manifold pressure sensor signal	
E_A_HFM_S_L	HFM signal, secondary air injection pump (SULEV)	
E_A_IP1S	Throttle valve potentiometer 2 signal	
E_A_IP2S	Throttle valve potentiometer 2 signal	
E_A_KS1A	Signal A, knock sensor, left bank	
E_A_KS1B	Signal B, knock sensor, left bank	
E_A_KS2A	Signal A, knock sensor, right bank	
E_A_KS2B	Signal B, knock sensor, right bank	
E_A_LS2HK	Signal, oxygen sensor in catalytic converter, left bank	
E_A_LSHK	Signal, oxygen sensor in catalytic converter, right bank	
E_A_LSU1IA	Oxygen sensor upstream of catalytic converter, right bank (trimming resistor)	
E_A_LSU1IP	Oxygen sensor upstream of catalytic converter, right bank (pump current)	
E_A_LSU1UN	Oxygen sensor upstream of catalytic converter, right bank (Nernst voltage)	
E_A_LSU2IA	Oxygen sensor upstream of catalytic converter, left bank (trimming resistor)	
E_A_LSU2IP	Oxygen sensor upstream of catalytic converter, left bank (pump current)	
E_A_LSU2UN	Oxygen sensor upstream of catalytic converter, left bank (Nernst voltage)	
E_A_TMOT1	Cooling water temperature sensor signal	
E_BH_O	Load assist UP	
E_BH_U	Load assist DOWN	
E_F_HFM1	Hot-film mass air flow sensor signal	
E_F_KWGA	Crankshaft sensor signal	
E_F_KWGB	Crankshaft sensor ground	
E_F_NWGA1	Exhaust camshaft sensor, right bank	
E_F_NWGA2	Exhaust camshaft sensor, left bank	
E_F_NWGE1	Inlet camshaft sensor, right bank	
E_F_NWGE2	Inlet camshaft sensor, left bank	
E_F_REF1	Reference signal (temperature) HFM	
E_HD_A	Trunk lid OPEN signal	
E_HSK_A	Rear shelf side flaps FOLDED OUT signal	
E_HSK_E	Rear shelf side flaps FOLDED IN signal	
E_K_A	Vario roof OPEN and in END POSITION signal	
E_RR_A	Tubular frame OPEN signal	
E_RR_Z VER	Tubular frame CLOSED & LOCKED signal input	
E_S_DSOel	Oil pressure switch	
E_S_FSOel	Oil level switch	
E_Ueb_O	Roll bar UP	
E_Ueb_U	Roll bar DOWN signal	
E_V_V	Vario roof CLOSED & LOCKED signal input	
FH	Power window	
FH H	Power window raising	
FH HL	Rear left power window	
FH HR	Rear right power window	
FH T	Power window lowering	
FH VL	Front left power window	
FH VR	Front right power window	
FHH	Power window motor (+raise)	
FHT	Power window motor (+lower)	
FL	Driving lights	
FM	Frequency modulation	
FSB	Parking brake	
GES 1	Gear recognition switch position 1	
GES 2	Gear recognition switch position 2	
GES 3	Gear recognition switch position 3	
GES N	Gear recognition switch Neutral	
GES VL	Left front vehicle speed signal	
GES VR	Right front vehicle speed signal	
GND	Shielding	

GPS	GPS signal	
GS	Emergency tensioning retractor	
GS / AB	Airbag emergency tensioning retractor	
GS, BF	Passenger emergency tensioning retractor	
GS, FA	Driver emergency tensioning retractor	
H (+)	Hall sensor voltage supply	
H (-)	Hall sensor ground	
H / L E / A	Heating/ventilation on/off	
H 1 sig.	Hall sensor 1 signal	
H 2 sig.	Hall sensor 2 signal	
H Sig.1	Hall sensor signal 1	
H Sig.2	Hall sensor signal 2	
HAL 1	Left rear axle 1	
HAL 2	Left rear axle 2	
HAL V	Left rear axle voltage supply	
HAR 1	Right rear axle 1	
HAR 2	Right rear axle 2	
HAR V	Right rear axle voltage supply	
HBR	Hand brake	
HD	Trunk lid	
HH (+)	Rear Hall sensor voltage supply	
HH (-)	Rear Hall sensor ground	
HHS	Heated rear window	
HKL	Backrest heated cushion	
HKS	Heated seat cushion	
HL	Left rear	
HR	Right rear	
HR	Main relay	
HV (+)	Height adjustment Hall sensor voltage supply	
HV (-)	Height adjustment Hall sensor ground	
IR (+)	Infrared receiver positive	
IR (-)	Infrared receiver negative	
IR data	Infrared receiver data	
K	Diagnosis K-line	
K (+)	Head restraint Hall sensor voltage supply	
KDP	Fuel metering pump	
Key	Key inserted	
Kickdown	Kickdown signal	
KL A Bus A	Automatic air conditioning bus output	
KMD	Refrigerant pressure	
KMT	Coolant temperature sensor	
KP R	Fuel pump relay	
KS	Clutch switch	
LED_BU	LED - cold	
LED_RD	LED - warm	
LL L	Left reading lamp	
LL R	Right reading lamp	
LSH K1	Lambda sensor heater TWC 1	
LSH K2	sensor heater TWC 2	
Lsp. +	Speaker voltage supply	
Lsp. -	Speaker ground	
LUES	Fan control	
HRA	Headlamp range adjustment	
MHH (+)	Rear raise motor voltage supply	
MHH (-)	Rear raise motor ground	
MHV (+)	Front height adjustment motor voltage supply	
MHV (-)	Front height adjustment motor ground	
Mikr. +	Microphone voltage supply	

Mikr. -	Microphone ground	
Mute	Muting	
M_BH_T	Load assist DOWN solenoid valve	
M_H	Solenoid valve (main valve)	
M_MR	Pump motor ground connection	
M_R_HFM1	Hot-film mass air flow sensor (sensor ground)	
M_R_IPM	Throttle valve potentiometer sensor ground	
M_R_LS1K	Sensor ground, oxygen sensor in catalytic converter, left and right bank	
M_R_SENM1	Sensor ground 1	
M_R_SENM2	Sensor ground 2	
M_U / AM	Roll bar deployment solenoid ground	
M_Ueb_H	Roll bar up solenoid valve	
M_V_A	Vario roof OPEN solenoid valve	
M_V_Z	Vario roof CLOSED solenoid valve	
NC	Not assigned	
NF	Low frequency	
NF-L	Low frequency, left	
NF-R	Low frequency, right	
NS LED	Fog lamp LED	
NSL	Rear fog lamp	
NSL LED	Rear fog lamp LED	
NWS	Camshaft positioner	
NW_G_A1	Position sensor 1, tumble flap, left bank	
NW_G_A2	Position sensor 2, tumble flap, left bank	
O2S(+)	Oxygen sensor positive	
O2S(-)	Oxygen sensor negative	
P-Sig.	Selector lever position "P" signal	
P1	Potentiometer 1	
P2	Potentiometer 2	
PED1_S	Pedal value sensor 1	
PED2_S	Pedal value sensor 2	
PL	Left parking lamp	
PR	Right parking lamp	
PS	Pressure converter	
Pump Rel.	Pump relay	
PWG1-0	Pedal value sensor 1 ground	
PWG1-1	Pedal value sensor 1 signal	
PWG2-0	Pedal value sensor supply (+5V)	
PWG2-1	Pedal value sensor 2 signal	
P_MD	Center air outlet potentiometer	
P_SD_li	Left side air outlet potentiometer	
P_SD_re	Right side air outlet potentiometer	
R/P-S (+)	R/P lock solenoid negative	
R/P-S (-)	R/P lock solenoid positive	
RBCAN H	CAN bus communication high	
RBCAN L	CAN bus communication low	
RFL	Backup lamp	
RS - Sig.	Rain sensor signal	
RS	Control valve	
RS	Purge valve	
S 1 V	Front sensor 1	
S 10 H	Rear sensor 10	
S 2 V	Front sensor 2	
S 3 V	Front sensor 3	
S 4 V	Front sensor 4	
S 5 V	Front sensor 5	
S 6 V	Front sensor 6	
S 7 H	Rear sensor 7	

S 8 H	Rear sensor 8	
S 9 H	Rear sensor 9	
SA 1	Mirror dimming 1	
SA 2	Mirror dimming 2	
SAM F	Driver-side SAM	
Sensor +	Sensor supply	
Sensor S	Sensor signal	
SH (+)	Mirror heater positive	
SH (+)	Rear sensors voltage supply	
SH (-)	Mirror heater negative	
SH (-)	Rear sensors ground	
SIG	Sensor signal	
Sig.	Signal	
Sig.	Signal	
SKT (+)	Seat cushion lower Hall sensor voltage supply	
SKT (-)	Seat cushion lower Hall sensor ground	
SP1M	Specified value potentiometer 1 ground	
SP1S	Specified value potentiometer 1 sliding contact	
SP2M	Specified value potentiometer 2 ground	
SP2S	Specified value potentiometer 2 sliding contact	
SRA	Headlamp cleaning system	
Start	Circuit 50 enable	
STKK	Refrigerant compressor solenoid valve actuation	
STR	Starter relay	
STR	Start relay 1	
SV	AT shift valve	
SV (-)	Front sensors ground	
SV (+)	Front sensors voltage supply	
TG +	Fuel tank sensor +	
TG -	Fuel tank sensor -	
TK	Door contact	
TNA	Engine speed output signal	
TV1	Video channel 1	
TV2	Video channel 2	
TV3	Video channel 3	
TV4	Video channel 4	
U	Voltage supply	
UB_MR	Pump motor supply	
UB_VR	Valves supply	
USP1	Specified value potentiometer 1 voltage supply	
USP2	Specified value potentiometer 2 voltage supply	
UVL	Ambient light sensor	
U_SAM	SAM control unit supply	
U_U_UDB	Voltage supply circuit 30	
V (-)	Valve negative	
VAL 1	Left front axle 1	
VAL 2	Left front axle 2	
VAL V	Left front axle voltage supply	
VAR 1	Right front axle 1	
VAR 2	Right front axle 2	
VAR U	Right front axle voltage supply	
VFE +	DTR sensor positive voltage supply	
VFE -	DTR sensor negative voltage supply	
VL	Left front	
VLS	Front area light sensor	
VR	Right front wheel antenna	
VSTAT_A	Vehicle speed status signal	
VZ (+)	Hall sensor voltage supply	

VZ (-)	Hall sensor ground	
W ABC	ABC wake-up line	
W/K	Warm / cold	
Wake up	D2 bus switch on signal	
WH (-)	Rear warning elements ground	
WH (Data)	Rear warning elements signal	
WH (+)	Rear warning elements supply	
WP	Washer fluid pump	
WV(-)	Front warning elements ground	
WV (Data)	Front warning elements signal	
WV(+)	Front warning elements supply	
CSO	Cylinder shut-off	
ZF	Intermediate frequency	
ZF-Ant.	Intermediate frequency antenna	
CL	Central locking	