



P54.15-3021-09

N10/1 Front SAM control unit with fuse
and relay module

X Direction of travel

Fuse	Terminal	Cable ID (fused line)	Fused function	Fuse rating in amperes (A)
f1	30	2.5 RDYE 2.5 RDYE	Valid without code (233) DISTRONIC PLUS: ● Electronic Stability Program control unit (N30/4) Valid for code (233) Distronic Plus: ● Premium Electronic Stability Program control unit (N30/7)	25
f2	30	2.5 RDBK	● Left front door control unit (/)N69/1	30
f3	30	2.5 RDBU	● Right front door control unit (/)N69/2	30
f4	15	0.5 BKVT	Valid for gasoline engine: ● Fuel pump control unit (N118)	7.5
f5	15	0.75 RDPK 0.75 BKBU	● Instrument cluster (A1) ● Rear SAM control unit with fuse and relay module (/)N10/2	7.5
f6	15	0.75 PKRD 0.75 PKRD 1.0 PKRD	Valid for diesel engine: ● CDI control unit (N3/9) Valid for engine 271: ● ME-SFI [ME] control unit (/)N3/10 Valid for engine 272: ● ME-SFI [ME] control unit (/)N3/10	7.5
f7	15	-	● Circuit 50 starter relay (N10/1kM)	20
f8	15R	0.75 RDYE	● Supplemental restraint system control unit (/)N2/10	7.5
f9	15R	1.5 PKBU	● Glove compartment socket (X58/31)	15
f10	15R	2.5 RDGN	● Wiper motor (M6/1)	30
	87	2.5 RD	Switched via wiper park position heater relay (N10/1kL): ● Wiper park position heater (R2/10)	
f11	30g	0.5 RDBU 0.75 RDWH	● Audio/COMAND display (/)A40/8 ● Audio/COMAND control panel (/)A40/9	7.5
f12	30g	1.0 RDGY 0.75 RDYE 0.75 RDWH 0.75 RDWH	● Automatic air conditioning control and operating unit (N22/7) ● Upper control panel control unit (/)N72/1 Valid without code (489) AIRMATIC (air suspension with continuously adjustable damping): ● Transmission mode button for automatic transmission (S16/12) Valid for code (489) AIRMATIC (air suspension with continuously adjustable damping): ● Suspension button group (S77)	7.5
f13	30g	0.75 RD 0.75 RDWH	● Steering column module control unit (N80) Valid for code (476) Automatic lane recognition or for code (513) Speed Limit Assist or for code (608) Adaptive Highbeam Assist: ● Multifunction camera (/)A40/11	7.5

		0.75 RDGY	Valid for code (233) Distronic Plus: ● Premium Electronic Stability Program control unit (N30/7)	
f15	30g	0.75 RDBU	● Supplemental restraint system control unit (/)N2/10	7.5
f16	30g	0.75 RDGN 0.5 RDYE 0.75 RDBU	● Diagnostic connector (/)X11/4 Valid for code (386) comfort telephony: ● Mobile phone electrical connector (X39/37) Valid for transmission 722: ● Electronic selector lever module control unit (/)N15/5	5
f17	30g	2.5 RDBK 2.5 RDBK	Valid for: Code (413) panoramic glass sunroof with top sliding sunroof or with code (414) Electrical glass tilting/sliding roof: ● Overhead control panel control unit (N70) ● Electrical connection for wiring harness, headliner and sliding roof (X24/7) Valid for code (413) Panoramic glass sunroof with top sliding sunroof: ● Panoramic sliding roof control module (A98)	30
f18	30	0.75 RD	● Exterior lights switch (S1) ● Instrument panel switch group (S6/1)	7.5
f19	30	1.5 RDBU	● Electric steering lock control unit (N26/5) ● Electronic ignition lock control unit (N73)	20
f20	30	4.0 RDGN 4.0 RDGN	Valid without code (233) DISTRONIC PLUS: ● Electronic Stability Program control unit (N30/4) Valid for code (233) Distronic Plus: ● Premium Electronic Stability Program control unit (N30/7)	40
f21	15R	0.5 BK 0.5 YEBK	● Stop lamp switch (S9/1) ● Glove compartment lamp (E13/1) ● Glove compartment lamp switch (S17/9)	7.5
f22	87M	0.75 BKRD RDGN 1.5 1.5 RDBU 2.5 RDVT RDGN 1.5	● Combustion engine fan motor and air conditioning with integrated control (M4/7) Valid for engine 271: ● Circuit 87 M2e connector sleeve (Z7/36) Valid for engine 272 and 273: ● Circuit 87 M2e connector sleeve (Z7/36) Valid for engine 642: ● Vent line heater element (/)R39/1 Valid for engine 651: ● Terminal 87 connector sleeve (Z7/5)	15
f23	87M	1.5 BKRD 2.5 RDBU 2.5 RDBU 2.5 RDBU 2.5 RDBU	Valid for diesel engine: ● Rear SAM control unit with fuse and relay module (/)N10/2 Valid for engine 271: ● Circuit 87 M1e connector sleeve (Z7/35) Valid for engine 272: ● Circuit 87 M1i connector sleeve (Z7/38) Valid for engine 642: ● Terminal 87 connector sleeve (Z7/5) ● CDI control unit (N3/9) Valid for engine 651: ● Terminal 87 connector sleeve (Z7/5) ● CDI control unit (N3/9)	20
f24	87M	2.5 RDBK 1.5 RDBK 2.5 RDGY	Valid for engine 272: ● Circuit 87 M1e connector sleeve (Z7/35) Valid for diesel engine: ● Terminal 87 connector sleeve (Z7/5) Valid for engine 651: ● CDI control unit (N3/9)	15
f25	87M	1.5 RDWH 1.5 RDBU	Valid for diesel engine: ● Oxygen sensor upstream of catalytic converter (G3/2) Valid for gasoline engine: ● ME-SFI [ME] control unit (/)N3/10	15
f26	30g	2.5 RDBU 2.5 RDBU 2.5 RDBU	Valid for code (510) Audio 20 incl. CD changer or for code (523) MB Audio 20 radio: ● Radio (A2) Valid for code (511) Audio 50 APS incl. DVD changer or for code (525) MB Audio 50 APS radio: ● Radio with auto pilot system (A2/56) Valid for Code (512) COMAND APS incl. DVD changer or for code (527) COMAND APS (with navigation) or for code (528) COMAND incl. DVD changer ● COMAND controller unit (A40/3)	20
f27	30z	0.75 RDWH 0.75 RDWH 0.5 RDVT	Valid for engines 271, 272: ● ME-SFI [ME] control unit (/)N3/10 Valid for engine 642, 651: ● CDI control unit (N3/9) ● Electronic ignition lock control unit (N73)	7.5
f28	30	0.75 RDYE	● Instrument cluster (A1)	7.5

f31A	15R	1.5 BKWH	<ul style="list-style-type: none"> ● Left fanfare horn (H2) ● Right fanfare horn (H2/1) 	15
f31B	30	1.5 BKWH	<ul style="list-style-type: none"> ● Left fanfare horn (H2) ● Right fanfare horn (H2/1) 	15
f32	30	-	Valid for engine 272: <ul style="list-style-type: none"> ● Secondary air injection relay (N10/1kP) 	40
f33	87F	0.75 RDWH 1.0 RDWH	Valid for transmission 722.6: <ul style="list-style-type: none"> ● Electronic transmission control control unit (N15/3) Valid for transmission 722.9: <ul style="list-style-type: none"> ● Fully integrated transmission control controller unit (Y3/8) 	10
f34	87F	-	<ul style="list-style-type: none"> ● Spare 	-
f35	87F	-	<ul style="list-style-type: none"> ● Spare 	-
f36	87F	0.75RDBK 0.75 RDBN	Valid for code (610) Night view assist: <ul style="list-style-type: none"> ● Night View Assist control unit (N101) Valid for code (233) DISTRONIC Plus: <ul style="list-style-type: none"> ● DISTRONIC electric controller unit (A89) 	7.5