
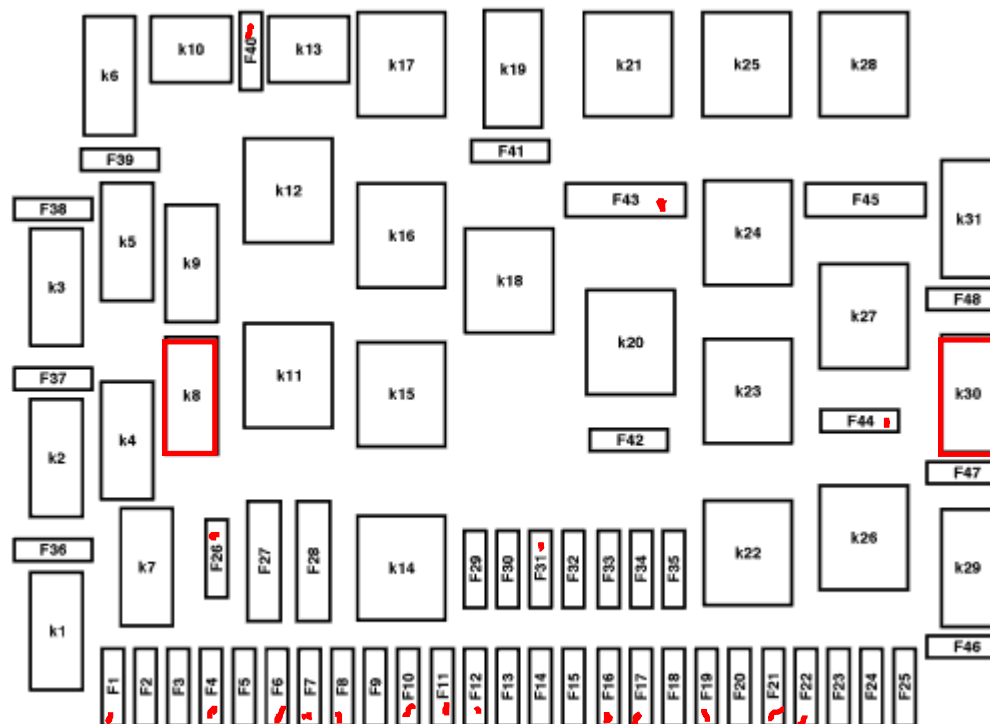


GF54.15-P-1255-15GH	Fuse and relay box, fuses, relay holder	 GF
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F1 to F48 Fuses  
k1 to k31 Relays



P54.15-0438-06

Fuse	Circuit	Color of unfused wire	Color of fused wire	Fused function	Socket	Rating in amperes (A)
F1	15		5.0 mm2 red	Interior socket (X58/1)		15
F2	L		0.5 mm2 green 1.0 mm2 green	Instrument cluster (A1): ● Left turn signal indicator lamp (A1e1)  Left front lamp unit (E1): ● Left turn signal lamp (E1e5)		7.5

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				Left taillamp (E3): <ul style="list-style-type: none"> <li>● Left turn signal lamp (E3e1)</li> </ul> Left additional turn signal lamp (E22/1) Interior connector sleeve (circuit L) (Z53/4): <ul style="list-style-type: none"> <li>● Trailer hitch connector (X52)</li> </ul>		
F3	56a	2.0 mm2 beige	1.0 mm2 white	Right front lamp unit (E2): <ul style="list-style-type: none"> <li>● Right high beam (E2e1)</li> </ul>		15
F4	30		2.0 mm2 white	Tilting/sliding roof (SR [SHD]) supply (M12), circuit 30: <ul style="list-style-type: none"> <li>● Tilting/sliding roof (SR [SHD]) (M12)</li> </ul>		30
F5	56a	2.0 mm2 beige	1.0 mm2 white 0.5 mm2 white	Left front lamp unit (E1): <ul style="list-style-type: none"> <li>● Left high beam (E1e1)</li> </ul> Instrument cluster (A1): <ul style="list-style-type: none"> <li>● High beam indicator lamp (A1e3)</li> </ul>		7.5
F6	15		0.8 mm2 green	Rear-end door wiper motor (M6/4)		7.5
F7	30 53a	3.0 mm2 gray	2.0 mm2 white 1.0 mm2 white	Combination switch (S4): <ul style="list-style-type: none"> <li>● Hazard warning flasher switch (S4s10)</li> <li>● Windshield washer system switch (S4s4)</li> <li>● Wipe switch (S4s5)</li> </ul> Wiper motor (M6/1) Front wiper motor relay (F1k17)		15
F8	30		1.0 mm2 red	Transfer case control unit (N78)		25
F9	58	1.0 mm2 gray	0.5 mm2 gray 0.8 mm2 gray	Instrument cluster (A1) License plate illumination: <ul style="list-style-type: none"> <li>● Left rear-end door license plate lamp (E19/3)/right rear-end door license plate lamp (E19/4)</li> <li>● Left spare wheel carrier license plate lamp (E19/5)/right spare wheel carrier license plate lamp (E19/6)</li> </ul> Cockpit connector sleeve (circuit 58d) (Z50/1): <ul style="list-style-type: none"> <li>● Left vent window switch (S21/13)/right vent window switch (S21/14) (light emitting diodes)</li> <li>● Left front HS [SIH] switch</li> </ul>		7.5

				<p>(S51/1)/right front HS [SIH] switch  (S51/2) (light emitting diodes)  ● Heater/AC switch (S98) (light emitting diodes)  ● Double switch combination (S97/6) (light emitting diodes)  ● ESP OFF switch (S76/6) (light emitting diodes)  ● Outside mirror fold-in/fold-out switch (S50/1) (light emitting diode)  ● Electric headlamp range adjustment selector wheel (S1/1) (light emitting diode)</p>	
				<p>● Rear window wipe/wash switch (S78) (light emitting diode)  ● Tilting/sliding roof switch (S13/2) (light emitting diode)  ● Backup lamp switch (S16/2)  ● Illumination (R3e1)  ● Center console switch group (S21)</p>	
F10	15R	3.0 mm2 gray	0.5 mm2 pink	<p>Radio (A2)  Circuit 15R roof connector sleeve (Z54/1):  ● Left sun visor with illuminated mirror (E14/1)  ● Right sun visor with illuminated mirror (E14/2)  ● Trip computer (TRIP [RRE]) control unit (N41)  ● Automatic dimming inside rearview mirror (H7)  Front cigar lighter (with ashtray illumination) (R3):  ● Heating element (R3r1)  Glove compartment lamp (E13/1)  Instrument cluster (A1):  ● Airbag indicator and warning lamp (A1e15)</p>	10
F11	15		1.5 mm2 red/blue	<p>Hot film MAF sensor (B2/5)  Crankshaft position sensor (L5)  Fuel injection valves (Y62)  On M111:</p>	10

				<ul style="list-style-type: none"> <li>● HFM-SFI [HFM] control unit (N3/4)</li> </ul>		
F12	58L	1.0 mm2 blue	0.8 mm2 blue  1.0 mm2 blue	<p>Circuit 58L interior connector sleeve (Z53/6):</p> <ul style="list-style-type: none"> <li>● Trailer hitch connector (X52)</li> </ul> <p>Left taillamp (E3):</p> <ul style="list-style-type: none"> <li>● Left taillamp and parking lamp (E3e2)</li> </ul> <p>Left front lamp unit (E1):</p> <ul style="list-style-type: none"> <li>● Left standing and parking lamp (E1e3)</li> <li>● Left side-marker lamp (E1e6)</li> </ul>		7.5
<b>Fuse</b>	<b>Circuit</b>	<b>Color of unfused wire</b>	<b>Color of fused wire</b>	<b>Fused function</b>	<b>Socket</b>	<b>Rating in amperes (A)</b>
F13	30		2.0 mm2 red  0.5 mm2 red 0.5 mm2 red 0.5 mm2 red	<p>Circuit 30 roof connector sleeve (Z54/2):</p> <ul style="list-style-type: none"> <li>● Front dome lamp with shut-off delay and front reading lamp (E15/2)</li> <li>● Rear interior lamp (E15/3)</li> <li>● Left rear dome lamp (E15/8)</li> <li>● Right rear dome lamp (E15/9)</li> <li>● Trip computer (TRIP [RRE]) control unit (N41)</li> </ul> <p>Instrument cluster (A1):</p> <ul style="list-style-type: none"> <li>● Seat belt warning lamp (A1E9)</li> </ul> <p>Steering angle sensor (N49) Data link connector (X11/4)</p>		10
F14	15			<p>On diesel:</p> <ul style="list-style-type: none"> <li>Injection timing device</li> <li>Exhaust gas recirculation valve</li> </ul>		10
F15	54		1.0 mm2 orange	<p>Interior connector sleeve (circuit 54) (Z52/6)</p> <p>Left taillamp (E3):</p> <ul style="list-style-type: none"> <li>● Left stop lamp (E3e4)</li> </ul> <p>Right taillamp (E4):</p> <ul style="list-style-type: none"> <li>● Right stop lamp (E4e4)</li> <li>● Center high-mounted stop lamp (E21)</li> <li>● Center high-mounted stop lamp on spare wheel mount (E35)</li> </ul>		10

				<ul style="list-style-type: none"> <li>● Trailer hitch connector (X52)</li> </ul>	
F16	15		0.5 mm2 gray 1.0 mm2 gray	<ul style="list-style-type: none"> <li>Data link connector (X11/4)</li> <li>Backup lamp switch (S16/2)</li> <li>Cockpit connector sleeve (circuit 15) (Z50/2): <ul style="list-style-type: none"> <li>● AC control unit (N19)</li> <li>● Heater/AC switch (S98) <ul style="list-style-type: none"> <li>- Blower switch (S98s1)</li> <li>- Temperature control switch (S98p1)</li> <li>- Air recirculation switch indicator lamp (S98e3)</li> <li>- Illumination (S98e1)</li> <li>- Illumination (S98e2)</li> <li>- Air recirculation switch (S98s2)</li> <li>- AC ON indicator lamp (S98e4)</li> <li>- AC ON switch (S98s3)</li> </ul> </li> <li>● Air recirculation flap actuator motor (M39)</li> <li>● AC control unit (N19)</li> </ul> </li> </ul>	15
F17	30		2.0 mm2 red	Load compartment socket (X58/4)	15
F18	30		2.0 mm2 red	Trailer hitch connector (X52)	25
F19	30		2.5 mm2 red/green  0.5 mm2 blue 1.0 mm2 blue 1.0 mm2 blue	<ul style="list-style-type: none"> <li>M111:</li> <li>HFM-SFI [HFM] control unit (N3/4)</li> <li>Adjustable camshaft timing solenoid (Y49)</li> <li>USA version:</li> <li>Activated charcoal filter shutoff valve (Y58)</li> <li>M112 /113:</li> <li>Circuit 87 M2e connector sleeve (Z7/36): <ul style="list-style-type: none"> <li>● Variable intake manifold switchover valve (Y22/6)</li> <li>● EGR [ARF] switchover valve (Y27)</li> <li>● Air pump switchover valve (Y32)</li> <li>● Left O2 sensor upstream of TWC [KAT] (G3/3)</li> <li>● Right O2 sensor upstream of TWC [KAT] (G3/4)</li> </ul> </li> <li>Purge control valve (Y58/1)</li> <li>Left O2 sensor downstream of TWC</li> </ul>	15

				[KAT] (G3/5) Right O2 sensor downstream of TWC [KAT] (G3/6)		
F20	15		0.5 mm2 pink	Left electrically adjustable and heated outside mirror (M21/1), right electrically adjustable and heated outside mirror (M21/2)		15
F21	30		1.0 mm2 red	Sound system: Sound amplifier (A2/13) Radio (A2)		25
Fuse	Circuit	Color of unfused wire	Color of fused wire	Fused function	Socket	Rating in amperes (A)
F22	15		2.0 mm2 blue  0.5 mm2 blue 0.5 mm2 blue 1.0 mm2 blue 0.5 mm2 blue	Circuit 15 interior connector sleeve (Z51/5): <ul style="list-style-type: none"> <li>● ETC [EGS] control unit (N15/3)</li> <li>● Gear recognition switch (S16/10)</li> <li>● Reversing and parking lock locking solenoid (Y66/1)</li> <li>● Transfer case control unit (N78)</li> <li>● Traction systems control unit (N47)</li> </ul> ESP: <ul style="list-style-type: none"> <li>● Steering angle sensor (N49)</li> </ul> Instrument cluster (A1) Fuel pump relay (F1k3) CC [TPM] switch (S40) M111: HFM-SFI [HFM] control unit (N3/4) M112 /113: ME control unit (N3/10)		
F23	-	-	-	Spare	-	-
F24	58R	0.8 mm2 blue	0.8 mm2 green  1.0 mm2 blue  1.0 mm2 green 1.0 mm2 green	Circuit 58R interior connector sleeve (Z52/4): <ul style="list-style-type: none"> <li>● Trailer hitch connector (X52)</li> </ul> Right front lamp unit (E2): <ul style="list-style-type: none"> <li>● Right standing and parking lamp (E2e3)</li> </ul> Right taillamp (E4): <ul style="list-style-type: none"> <li>● Right taillamp and parking lamp (E4e2)</li> </ul> Right side-marker lamp (E2e6)		7.5

F25	R		1.0 mm2 pink  0.5 mm2 pink	Right front lamp unit (E2): ● Right turn signal lamp (E2e5) Right taillamp (E4): ● Right turn signal lamp (E4e1) Right additional turn signal lamp (E22/2) Traction systems control unit (N47) Interior connector sleeve (circuit R) (Z53/5): ● Trailer hitch connector (X52) Instrument cluster (A1): ● Right turn signal indicator lamp (A1e2)	7.5
F26	15		4.0 mm2 pink/red  2.5 mm2 black/yellow 4.0 mm2 black/yellow	Circuit 15 (fused) connector sleeve (Z3/29): ● Ignition coils, engine 111 ● Ignition coils, engine 112  ● Ignition coils, engine 113	15
F27	30		1.0 mm2 red	Traction systems control unit (N47)	40
F28	15R/30		3.0 mm2 white	Heated seats interior connector sleeve (Z53/8): Left/right heated seat supply: ● Heated seat relay, stage 1 (K59) ● Heated seat relay, stage 2 (K59/1) ● Left front seat heated cushion (R13/1) ● Right front seat heated cushion (R13/3) ● Left front backrest heated cushion (R13/2) ● Right front backrest heated cushion (R13/4)	20
F29	15R/30		2.0 mm2 orange	Center console switch group (S21): ● Right front window switch (S21s2) - Right front power window motor (M10/4) ● Left rear window switch (S21s3) Rear center console power window switch combination (S21/15):	30

			1.0 mm2 orange	<ul style="list-style-type: none"> <li>● Left rear power window switch (S21/15s1)</li> <li>- Left rear power window motor (M10/5)</li> <li>Right front power window relay (F1k16)</li> </ul>		
F30	15R/30		2.0 mm2 orange  1.0 mm2 gray	Center console switch group (S21): <ul style="list-style-type: none"> <li>● Left front window switch (S21s1)</li> <li>● Right rear window switch (S21s4)</li> </ul> Rear center console power window switch combination (S21/15): <ul style="list-style-type: none"> <li>● Right rear power window switch (S21/15s2)</li> </ul> Left front power window relay (F1k18)		30
F31	30		0.5 mm2 blue  0.8 mm2 blue	Center console switch group (S21): <ul style="list-style-type: none"> <li>● Up/down outside mirror adjustment (S21s6)</li> <li>● Left/right outside mirror adjustment (S21s7)</li> <li>● Left/right outside mirror selection (S21s8)</li> </ul> Pivot window cockpit connector sleeve (Z50/13): <ul style="list-style-type: none"> <li>● Rear vent window: <ul style="list-style-type: none"> <li>- Left vent window switch (S21/13)</li> <li>- Right vent window switch (S21/14)</li> </ul> </li> </ul> Tilting/sliding roof switch (S13/2)		15
<b>Fuse</b>	<b>Circuit</b>	<b>Color of unfused wire</b>	<b>Color of fused wire</b>	<b>Fused function</b>	<b>Socket</b>	<b>Rating in amperes (A)</b>
F32	15R/30		2.0 mm2 orange	Right front seat adjustment switch (S23) Right front seat adjustment motor group (M26) <ul style="list-style-type: none"> <li>● Fore/aft motor (M26m1)</li> <li>● Rear up/down motor (M26m2)</li> <li>● Front up/down motor (M26m3)</li> <li>● Backrest fore/aft motor (M26m5)</li> </ul>		30
F33	15R/30		2.0 mm2 orange	Left front seat adjustment switch (S22) Left front seat adjustment motor group (M25) :		30



				<ul style="list-style-type: none"> <li>● Fore/aft motor (M25m1)</li> <li>● Rear up/down motor (M25m2)</li> <li>● Front up/down motor (M25m3)</li> <li>● Backrest fore/aft motor (M25m5)</li> </ul>		
F34	56L		1.0 mm2 pink 0.5 mm2 pink	Left front lamp unit (E1): <ul style="list-style-type: none"> <li>● Left low beam (E1e2)</li> </ul> Electric headlamp range adjustment selector wheel (S1/1) <ul style="list-style-type: none"> <li>● Left headlamp range adjustment motor (E1m1)</li> <li>● Right headlamp range adjustment motor (E2m1)</li> </ul>		7.5
F35	56R		1.0 mm2 pink	Right front lamp unit (E2): Right low beam (E2e2)		7.5
F36	30		3.0 mm2 pink	Rear window heater		25
F37	30		1.0 mm2 orange	Fanfare horns: <ul style="list-style-type: none"> <li>● Two-tone signaling system (H1)</li> </ul>		20
F38	30		1.0 mm2 green	Fuel pump with fuel level sensor (M3/3)		20
F39	-	-	-	Spare	-	-
F40	30		4.0 mm2 red	Vacuum pump (engine 612.963)		25
F41	30		1.0 mm2 white	Circulating pump relay (F1k19) Right engine compartment connector sleeve (engine coolant pump/cooling fan electrics box) (Z57/2): <ul style="list-style-type: none"> <li>● Coolant circulation pump (M13)</li> <li>● Module box blower motor (M2/2)</li> </ul> On diesel: Heater booster Stationary heater		25
<b>Fuse</b>	<b>Circuit</b>	<b>Color of unfused wire</b>	<b>Color of fused wire</b>	<b>Fused function</b>	<b>Socket</b>	<b>Rating in amperes (A)</b>
F42	30		0.8 mm2 white  1.0 mm2 white	Central locking: <ul style="list-style-type: none"> <li>● Left front door CL [ZV] motor (M14/6)</li> <li>● Right front door CL [ZV] motor (M14/5)</li> </ul>		20

				Interior connector sleeve (central locking motor 1) (Z53/1): <ul style="list-style-type: none"> <li>● Rear-end door CL [ZV] motor (M14/7)</li> <li>● Left rear door CL [ZV] motor (M14/8)</li> <li>● Right rear door CL [ZV] motor (M14/9)</li> <li>● Fuel filler flap CL [ZV] motor (M14/10)</li> </ul>	
F43	30		5.0 mm2 white	Blower motor relay (F1k21) Blower motor (M2)	30
F44	30		2.0 mm2 green	Engine fan stage 1 relay (F1k26) Left engine compartment connector sleeve (fan) (Z56/2) <ul style="list-style-type: none"> <li>● Left additional fan (M4m1)</li> <li>● Right additional fan (M4m2)</li> </ul>	30
F45	30		2.5 mm2 red/white	Electric air pump (M33)	40
F46	58NS		0.8 mm2 light brown  1.0 mm2 light brown	Up to 30.11.1999 Rear fog lamp cockpit connector sleeve (Z50/10): <ul style="list-style-type: none"> <li>● Left rear fog lamp (E3e5)</li> <li>● Right rear fog lamp (E4e5)</li> </ul> Trailer hitch connector (X52)	7.5
F46	58NS		1.0 mm2 blue  0.5 mm2 blue	As of 01.12.1999 Rear fog lamp interior connector sleeve (Z52/8): <ul style="list-style-type: none"> <li>● Left rear fog lamp (E3e5)</li> <li>● Right rear fog lamp (E4e5)</li> <li>● Double switch combination (S97/6) (rear fog lamp diode)</li> </ul>	7.5
F47	58N		1.0 mm2 gray  1.0 mm2 gray	Auxiliary headlamp connector sleeve (in right of engine compartment) (Z56/4): Left front lamp unit (E1): <ul style="list-style-type: none"> <li>● Left front fog lamp (E1e4)</li> <li>● Left additional headlamp high beam (E1e7), right additional headlamp high beam (E2e7)</li> </ul>	15

				Right front headlamp unit (E2) ● Right front fog lamp (E2e4)		
F48	30		1.0 mm2 white	Alarm signal horn (H3)		20