

BMW 3-Series (E46; 1998-2006) fuses and relays

In this article, we consider the fourth generation BMW 3-Series (E46), produced from 1998 to 2006. Here you will find fuse box diagrams of BMW 3-Series 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005 and 2006 (316i, 318i, 318d, 320i, 320d, 323i, 325i, 328i, 330i, 330d), get information about the location of the fuse panels inside the car, and learn about the assignment of each fuse (fuse layout) and relay.

Fuse Layout BMW 3-Series 1998-2006



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Fuse box in the glove compartment

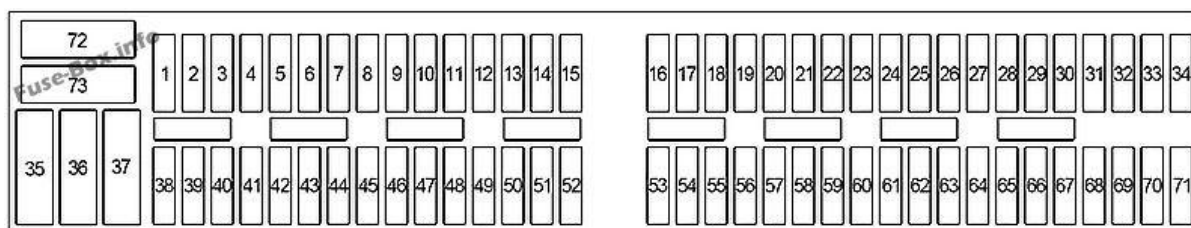
Fuse Box Location

Open the glove compartment, turn the two clamps, and pull the panel down for access the fuses.



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Fuse box diagram



Assignment of the fuses in the glove compartment

N°	A	Protected components
1	-	Not used
2	-	Not used
3	-	Not used
4	-	Not used
5	5	Horn relay
6	5	Make-up mirror light, driver's side Make-up mirror light, passenger's side Convertible soft top control unit

7	5	Radio control unit Aerial amplifier AM/FM (with remote control central locking) On-board monitor control unit Spatial sound switch Interface Navigation computer GPS receiver Transceiver/charging electronics Pushbutton, convertible soft top closed Basic interface telephone Voice input Diversity Eject box Telematics control unit (TCU-Everest) Universal electronic charging and hands-free module (ULF)
8	5	Sequential mechanical gear

9	5	up to 03.2001 (BMS46): General module control unit Light switching centre control unit Cruise control module Brake light switch Volute spring 03.1998-09.1999 (MS42 or DDE3.0): Volute spring General module control unit Brake light switch Light switching centre control unit 09.1999-03.2001 (MS42, MS43, MSS54, DDE3.0, DDE4.0): Volute spring General module control unit Brake light switch Light switching centre control unit Clutch switch as of 03.2001: Volute spring General module control unit Brake light switch
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		Light switching centre control unit Clutch switch module
1 0	5	Instrument cluster control unit
1 1	5	Multiple Restraint System II: Sensor for LH side airbag (satellite) Sensor for RH side airbag (satellite) Multiple restraint system control unit Hall sensor, driver's seat belt buckle Hall sensor, passenger's seat belt buckle (USA) Electronic seat control Multiple Restraint System III/IV: Multiple restraint system control unit Hall sensor, driver's seat belt buckle Electronic seat control Hall sensor, passenger's seat belt buckle (USA)
1 2	7 .5	03.1998-09.1999: Sun shade switch as of 09.1999: Switch center
1 3	7 .5	as of 03.2000: Rollover sensor

1 4	5	Electronic immobiliser control unit Gearshift lock
1 5	5	Rain sensor Intermittent wipe/wash control unit, rear (Touring)
1 6	-	Not used
1 7	-	Not used
1 8	-	Not used
1 9	-	Not used
2 0	-	Not used
2 1	-	Not used
2 2	5	S54: Sequential mechanical gear box M47/TU and M57/TU: Digital diesel electronics control unit
2 3	5	Auxiliary water pump

2 4	5	Electrochromic interior rear-view mirror Park distance control unit (PDC)
2 5	5	Outside mirror, passenger's side Thermal switch, heated spray nozzles
2 6	5	Garage door opener
2 7	1 0	Reversing light relay Gear position switch (BMS46 with EGS 8.34) Transmission control unit (BMS46 with GM5)
2 8	5	Heating and A/C control module Heating blower relay Relay, A/C compressor Dual-function switch recirculated air/rear window defogger Temperature switch Rear window defogger relay (convertible)
2 9	5	Digital motor electronics control unit (BMS46, MS42, MS43, MSS54) Unloader relay terminal 15 (BMS46, ME9) Digital diesel electronics control unit (DDE3.0, DDE5) Transmission control unit (ME9 with Automatic transmission)

3 0	7 . 5	Oil level sensor Alternator Temperature switch (up to 09.1998; MS42) Transmission control unit Data link connector Diesel: Oil level sensor Data link connector Transmission control unit (as of 06.2000; DDE3.0)
3 1	5	03.1998-09.1998: Mirror adjustment switch 09.1998-09.2001: Tyre pressure control system control unit as of 09.2001: Mirror adjustment switch Control unit, tyre defect indicator (RPA) (all-wheel drive with DDS) Tyre pressure control system control unit (without all-wheel drive with DDS)
3 2	5	without Xenon lights: Light switching centre control unit Xenon lights: Light switching centre control uni Xenon headlight, left Xenon headlight, right

		Control unit for adaptive headlight (03.2003-09.2003; Convertible and Coupe) Xenon lights (as of 09.2003): Light switching centre control uni Control unit for adaptive headlight (Convertible)
3 3	5	03.1998-09.1999: ASC/DSC button ABS/DSC unit (with DSC) without all-wheel: Switch center Steering angle sensor (with DSC) ABS/DSC unit up to 03.2001 (all-wheel drive): Switch center Steering angle sensor, DSC ABS/DSC unit as of 03.2001 (all-wheel drive): Switch center
3 4	5	Instrument cluster control unit Fuel pump control (EKPS) (only MS45)
3 5 0	5	all-wheel drive: ABS/DSC unit

		Convertible: Relay, convertible top drive
3 6	5 0	Secondary air pump relay
3 7	5 0	03.1998-09.1998: Heating blower relay 09.1998-09.1999: Blower switch (with IHS) Blower output stage (with IHKA) as of 09.1999: Electric fan
3 8	1 0	Fog light relay
3 9	5	Transceiver/charging electronics Motorola (03.1998-09.1999): Transceiver/charging electronics Nokia: Transceiver/charging electronics (up to 09.1999) Compensator Basic interface telephone (as of 09.1999) Voice input (as of 09.1999) Telephone provision: Transceiver/charging electronics Compensator

		JBIT: Basic interface telephone
3 9	1 0	Siemens: Voice input Basic interface telephone Eject box Motorola (as of 06.2000): Voice input Compensator Transceiver/charging electronics Interface Telematics Control Unit: Voice input Telematics control unit (TCU-Everest) Eject box Aerial splitter (Coupe, Convertible as from 2004_09) ULF: Compensator Universal electronic charging and hands-free module (ULF)
4 0	5	without all-wheel (up to 09.2001): Gear indicator light without all-wheel (as of 09.2001):

		Steering angle sensor, DSC Gear indicator light (only USA) all-wheel drive: Steering angle sensor, DSC
4 1	3 0	On-board monitor control unit Amplifier Radio control unit CD changer Subwoofer box Navigation computer Video module control unit Switch center
4 2	3 0	Switch center
4 3	5	Instrument cluster control unit Data link connector (only USA)
4 4	2 0	Trailer socket
4 5	2 0	Touring: Intermittent wipe/wash control unit, rear

4 6	2 0	Convertible soft top control unit Sunroof module control unit Relay, convertible top 1
4 7	1 5	up to 03.1999: Cigarette lighter, front
4 7	2 0	as of 03.1999: Cigarette lighter, front Oddments compartment, left (except Touring) Oddments compartment, right (except Touring) 12 V socket
4 8	3 0	General module control unit
4 9	5	General module control unit Aerial amplifier AM/FM (with remote control central locking)
5 0	2 5	up to 09.1999: Ignition switch
5 0	4 0	as of 09.1999: Blower switch (with Heater control) Blower output stage (without Heater control)

5 1	3 0	Headlight washer module
5 2	3 0	General module control unit
5 3	3 0	ABS/ASC unit
5 4	1 5	Fuel pump relay 1
5 4	2 5	DDE4.0: Fuel pump relay 1
5 4	2 0	DDE5.0: Fuel pump relay 1 MS45: Fuel pump control (EKPS)
5 5	1 5	Horn relay
5 6	3 0	ABS/ASC unit
5 7	5	Outside mirror fold-in control unit Mirror memory control unit, driver's side (up to 03.2003) Mirror memory control unit, front passenger's side (up to 03.2003) Driver's side outside mirror with memory (as of 03.2003) Passenger's side out-side mirror with memory (as of 03.2003)

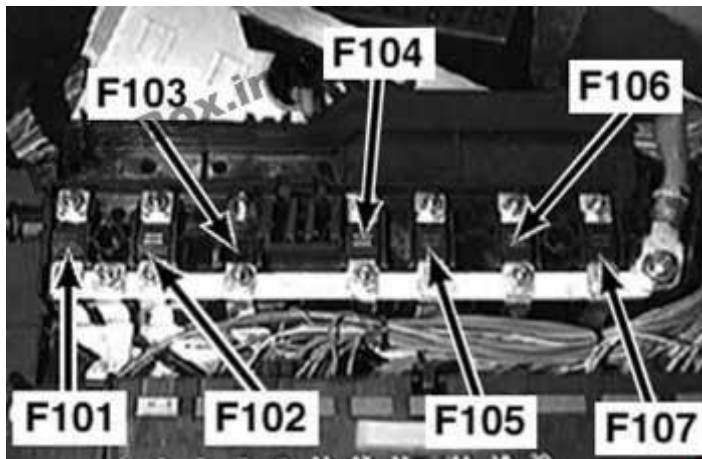
		Mirror memory control unit, driver's side (as of 03.2003; Coupe, Convertible) Mirror memory control unit, front passenger's side (as of 03.2003; Coupe, Convertible) Power window motor, driver's door with anti-trap protection function (as of 03.2003; Compact, Convertible with SPMFT) Power window motor, passenger's door with anti-trap protection function (as of 03.2003; Compact, Convertible with SPMFT)
5 8	7 . 5	Touring: Relay, rear window drive as of 03.2003; (Coupe, Convertible): Control unit for adaptive headlight
5 9	3 0	Wiper relay
6 0	2 5	General module control unit
6 1	3 0	ABS/DSC unit
6 2	7 . 5	Water valves
6 3	7 . 5	Relay, A/C compressor

6 4	2 0	Independent park heating control unit
6 4	5	DDE5: Transmission control unit
6 5	3 0	03.1998-09.1999: Driver's seat memory control unit Driver's lumbar support switch as of 09.1999: Driver's seat adjustment switch Driver's lumbar support switch (convertible)
6 6	5	MS43 with SMG: Ignition switch
6 7	5	Electronic immobiliser control unit Electrochromic interior rear-view mirror Control unit, interior protection I Control unit, interior protection II (convertible) Tilt monitoring Horn for antitheft alarm system
6 8	3 0	Rear window defogger relay

6 9	5	Tyre pressure control system control unit
7 0	3 0	with SMF (Saloon, Touring): Seat adjustment switch, front passenger's seat without SMF (Saloon, Touring): Passenger's lumbar support switch Compact, Coupe: Control unit, front passenger seat memory Convertible: Control unit, front passenger seat memory Passenger's lumbar support switch
7 1	3 0	4-door: General module control unit
7 1	1 0	2-door: General module control unit
7 2	-	Not used
7 3	-	Not used

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Passenger Compartment Fuse Box (Behind Glovebox)

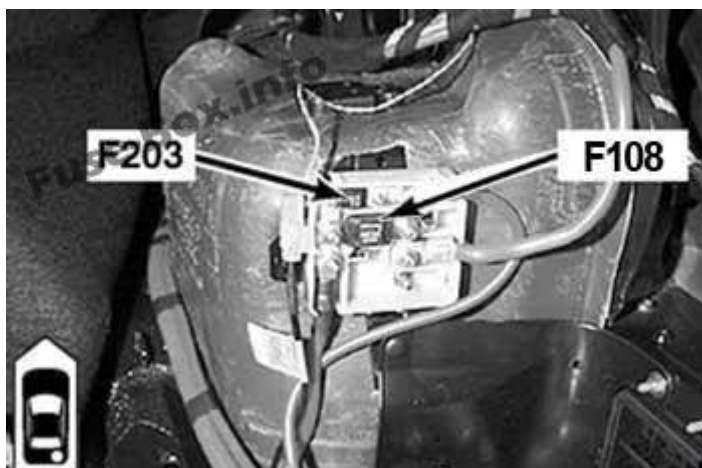


Passenger Compartment Fuse Box (Behind Glovebox)

No	A	Protected components
101	50	03.1998-09.1998: Electric fan
102	80	MSS54: Fuse carrier, engine electronics (fuse No.5 (30A)) DME relay Digital motor electronics control unit SMG control unit MS43: Fuse carrier, engine electronics (fuse No.5 (30A)) DME relay Digital motor electronics control unit Transmission control unit BMS46, MS42: B+ terminal

		ME9: B+ potential distributor
103	-	Not used
104	100	Preheater relay
105	50	Ignition switch Diagnosis plug
106	50	Ignition switch Light switching centre control unit
107	50	Trailer module Light switching centre control unit

Rear Fuse box

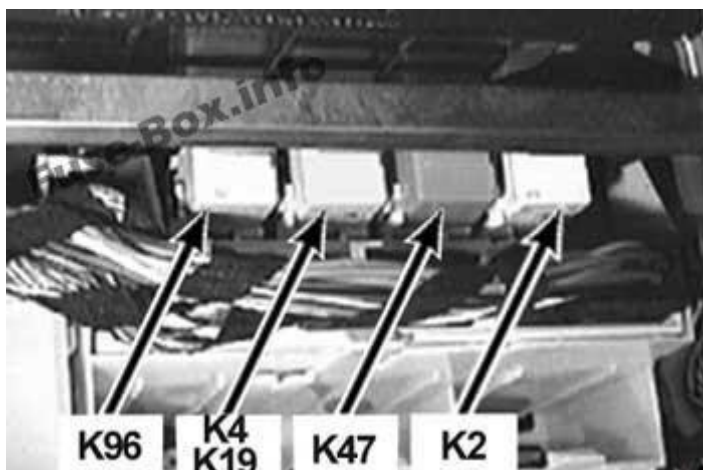


Rear Fuse box

No	A	Protected components
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1 0 8	2 0 0	Fuse: 35-71, 101-107
2 0 3	1 0 0	DDE relay Fuse carrier, engine electronics (fuse No.4 (30A) - DDE4.0 or EGS Transmission control GM5)

Relay holders (Behind Glovebox)



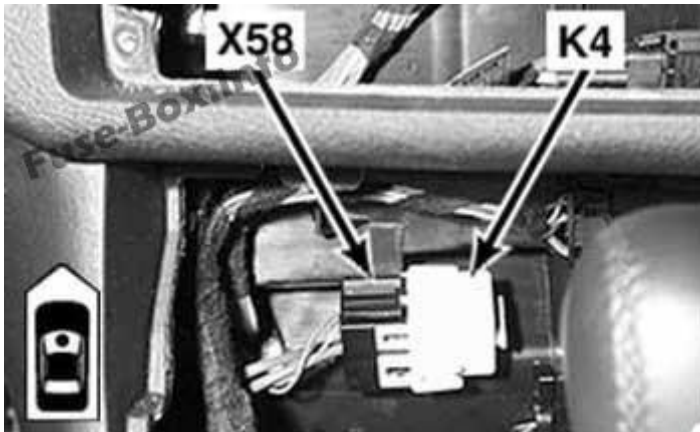
Relay holders (Behind Glovebox)

No	Component
K2	Horn relay
K4	03-1998-09.1998: Heating blower relay IHS
K19	as of 09.1998: Relay, A/C compressor
K47	Fog light relay

K96	Fuel pump relay 1
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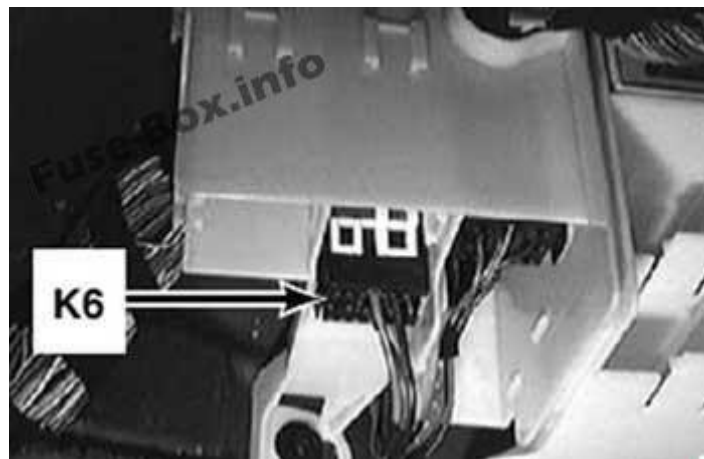
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K4 – Heating blower relay IHS (rear of center console; as of 09.1998)



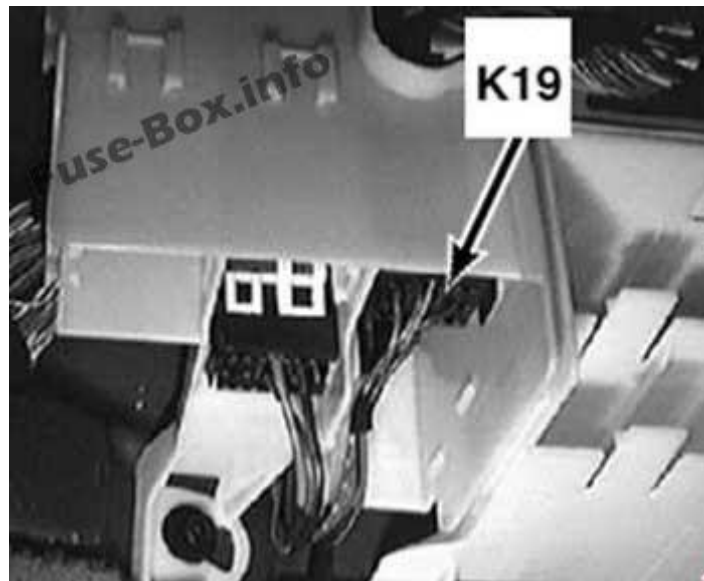
K6 – Headlight washer module

Behind glovebox



K19 – Relay, A/C compressor (03.1998-09.1998)

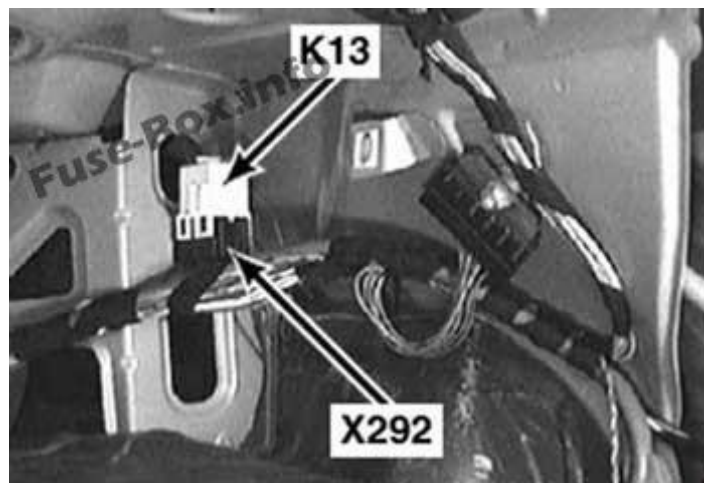
Behind glovebox



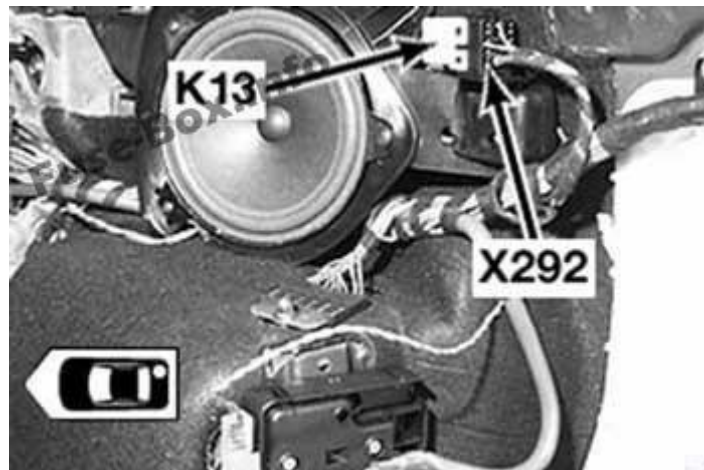
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K13 – Rear window defogger relay

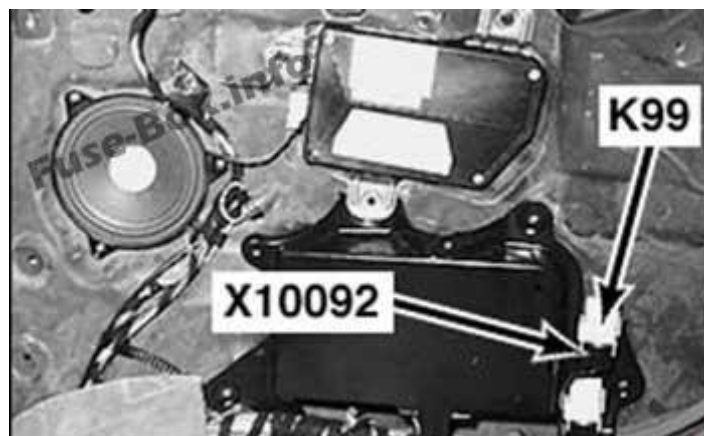
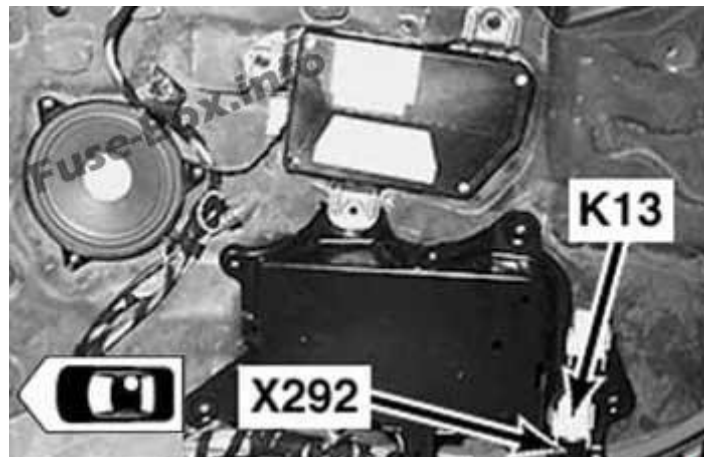
Saloon, Coupe (Right-hand side of luggage compartment)



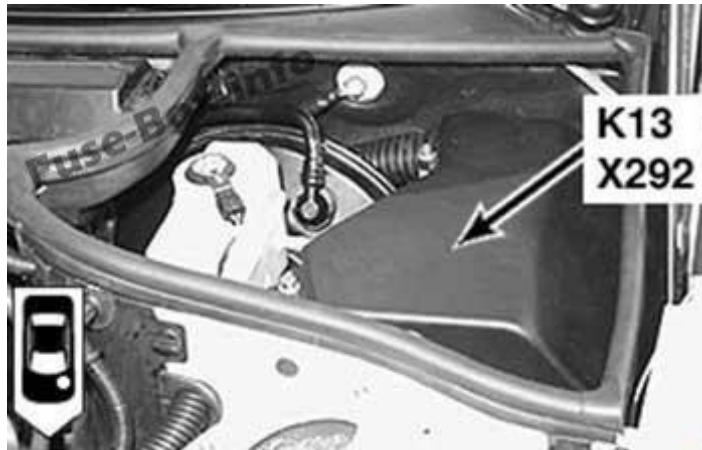
Touring (Right-hand side of luggage compartment)



Convertible (Side section right (trim panel removed) (K13, K99 – Rear defogger relay))



Compact (In the electronics box under control units)



K90 – Relay, rear window drive (Touring)

Behind right-hand footwell trim



K96 – Fuel pump relay 1 (USA, MSS54)

Side section right (trim panel removed)



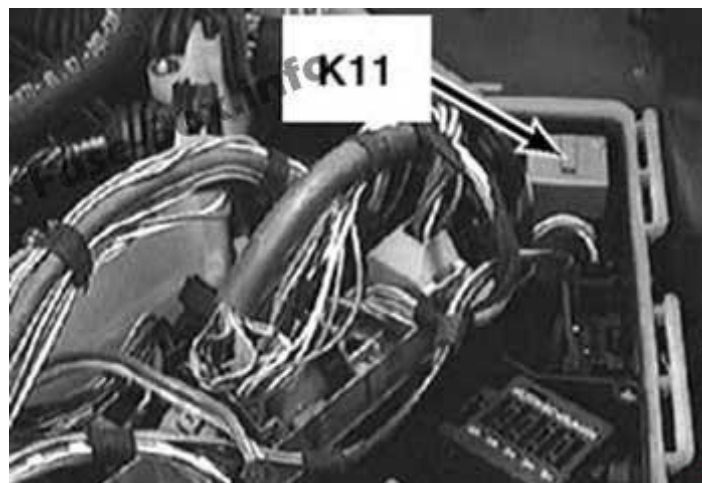
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Electronics box (in the engine compartment)



K11 – Wiper relay

Rear LH side of engine compartment in electronics box

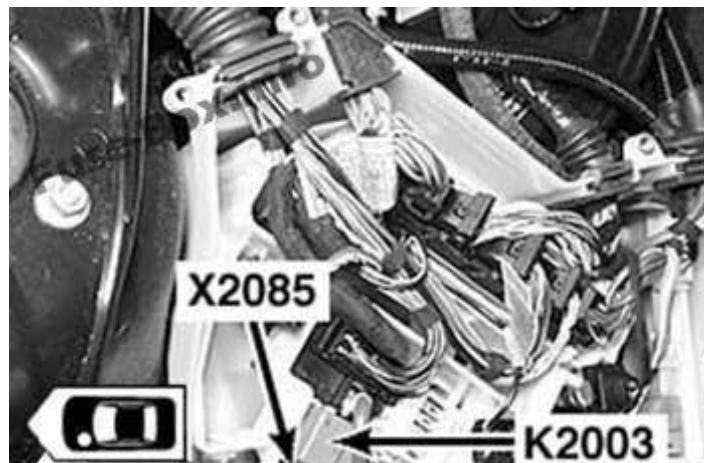


K2003 – DDE relay

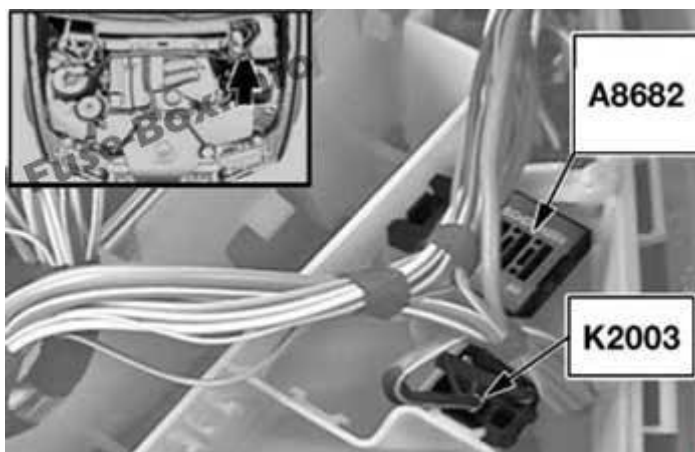
DDE3.0 (Diesel Electronics)



DDE4.0 (Diesel Electronics)



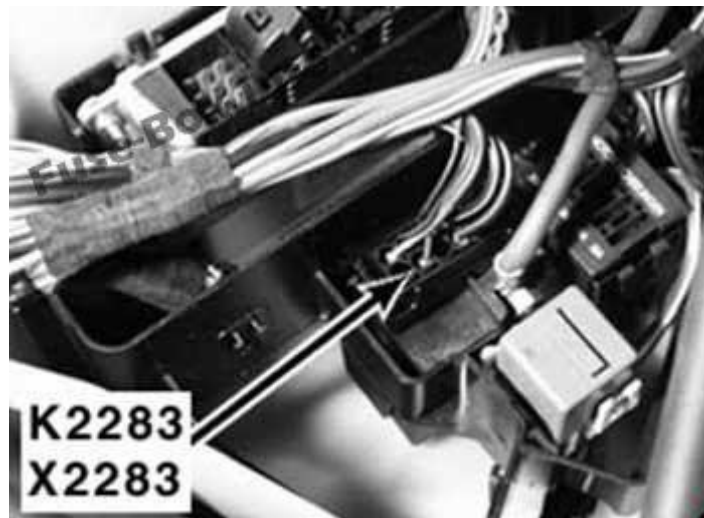
M47/TU, M57/TU



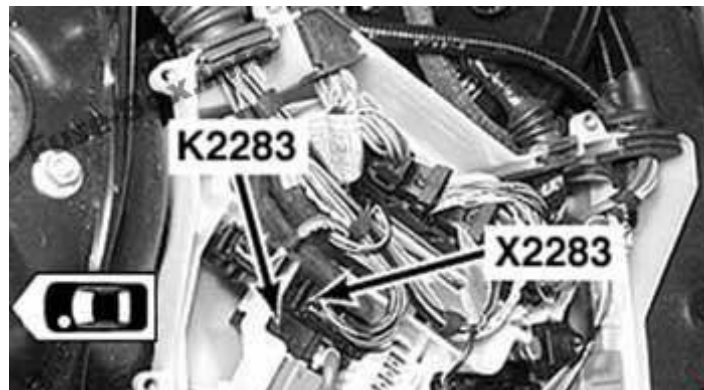
A8682 – Fuse carrier, engine electronics

K2283 – Preheater relay

DDE3.0 (Diesel Electronics)



DDE4.0 (Diesel Electronics)



K5360 – Relay, hydraulic pump (SMG)



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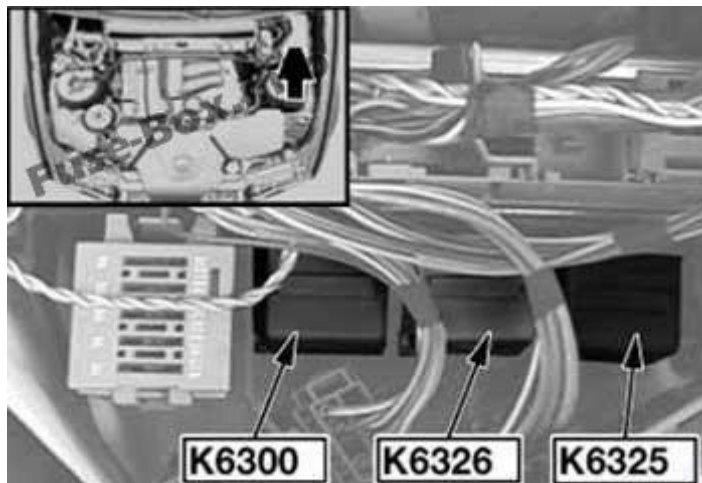
K6300 – DME Relay

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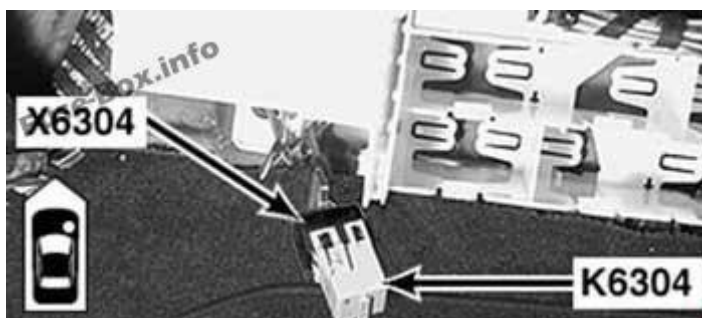
BMS46, ME9, MS42, MS43, MS45, MSS54



N46



K6304 – Secondary air pump relay



K6316 – Relay, variable valve timing gear

ME9 (In water box right (battery removed))



N46

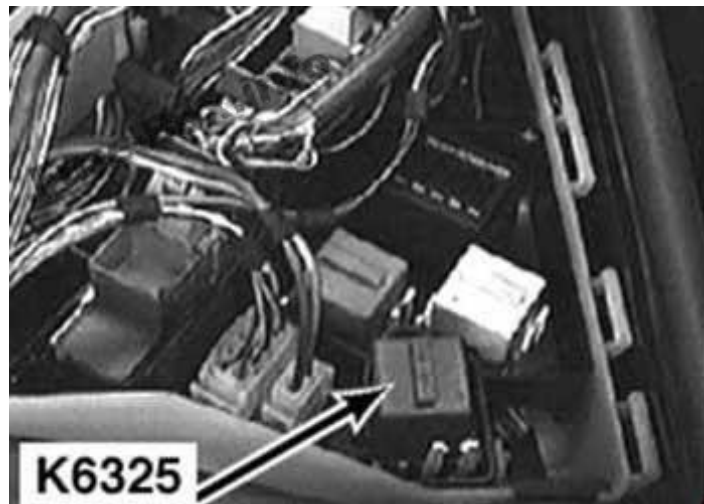


K6318 – Hydraulic pump relay, SMG

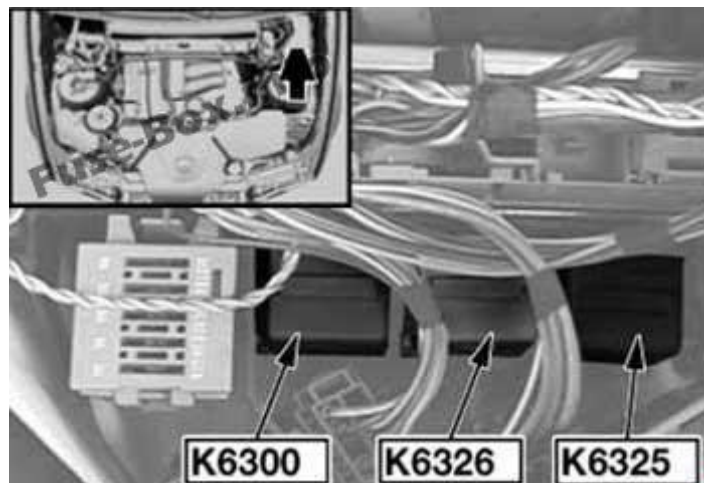


K6325 – Reversing light relay

MS42, BMS46, MS43, ME9, MS45



N46

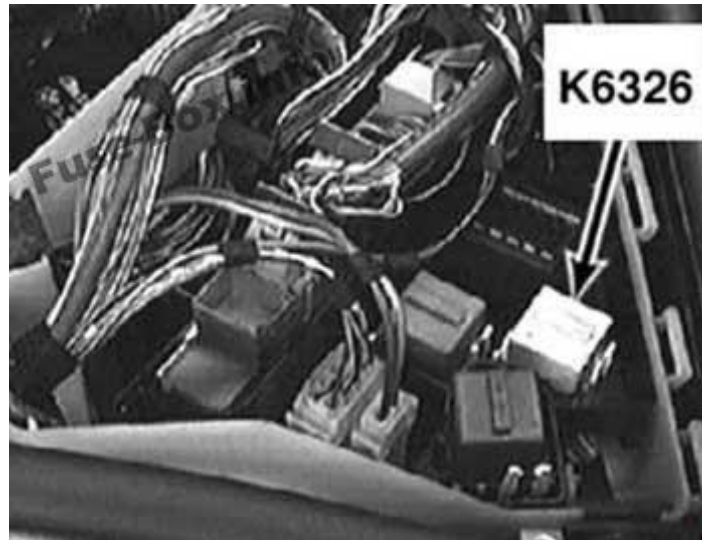


M47/TU, M57/TU

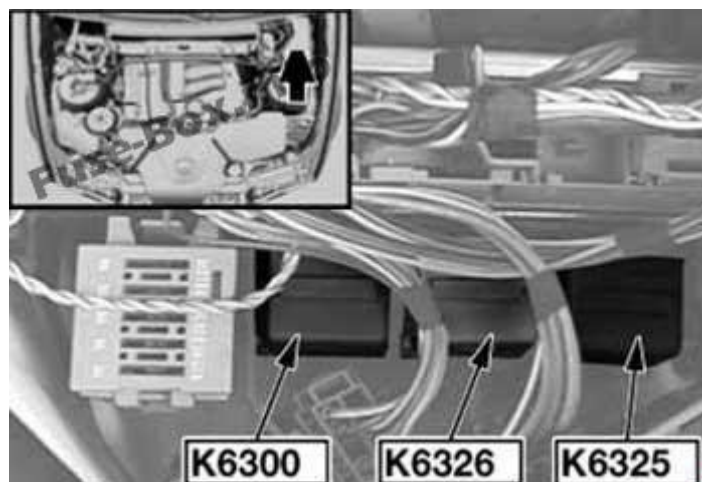


K6326 – Unloader relay terminal 15

MS42, BMS46, ME9



N46



K6327 – Relay, fuel injectors

MS43, MSS54, MS45



K18363 – Relay, convertible top 1

Behind glovebox

