Model	166.0	
	up to model year 2016	
	with code 460 (Canada version)	
Model	166.0	
	up to model year 2016	
	with code 494 (US version)	
Model	166.0	
	up to model year 2016	
	with code 496 (Mexico version)	

Nm Ground points

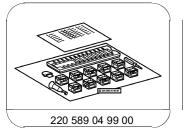
Number	Designation			Model 166
BA00.19-P-1006-01G	Right rear center section ground point	W7	Nm	10

Nm Ground points

Number	Designation				Model 166
BA00.19-P-1007-01G	Trailer hitch ground point	N	W7/9	Nm	10

Nm Ground points

Number	Designation				Model 166
BA00.19-P-1016-01G	Left footwell ground point	١	N15/2	Nm	10



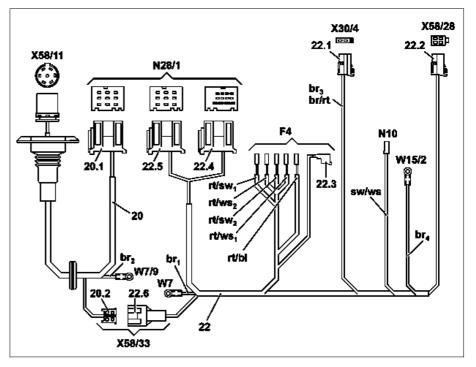
New passenger car wiring harness repair kit



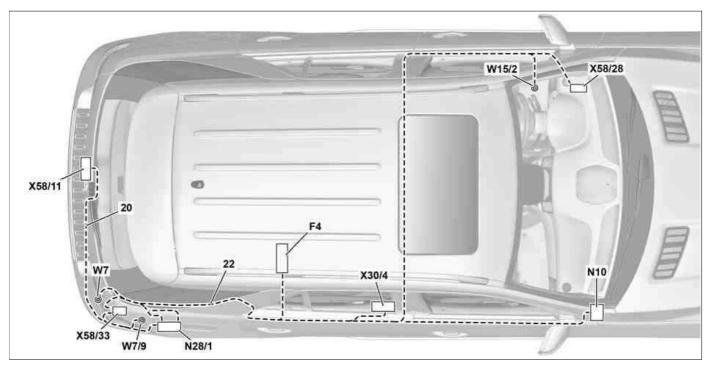
Wiring harness repair kit, basic

Connection scheme

20	Trailer hitch wiring harness
20.1	Black 16-pin coupling
20.2	White 2-pin coupling
22	Control unit wiring harness
22.1	Black 2-pin connector
22.2	Green 4-pin connector
22.3	Blue fuse holder
22.4	Blue 12-pin coupling
22.5	Red 12-pin coupling
22.6	White 2-pin plug
F4	Rear fuse box
N10	SAM control unit
N28/1	Trailer recognition control unit
W7	Right rear center section ground
	point
W7/9	Trailer hitch ground point
W15/2	Left footwell ground point
X30/4	Right potential distributor
VEDIAA	electrical connector (CAN)
X58/11 X58/28	Trailer socket (7-pin) Electric-Brake-Control electrical
X30/20	connector
X58/33	Vehicle interior/trailer hitch
	electrical connector
br ₁	Brown line
br ₂	Brown line
br3	Brown line
br ₄	Brown line
br/rt	Brown/red line
rt/bl	Red/blue line
rt/sw ₁	Red/black line
rt/sw 2	Red/black line
rt/ws 1	Red/white line
rt/ws ₂	Red/white line
sw/ws	Black/white line



P31.19-2636-06



P31.19-2637-09

Routing diagram

20 Trailer hitch wiring harness

W7/9 Trailer hitch ground point

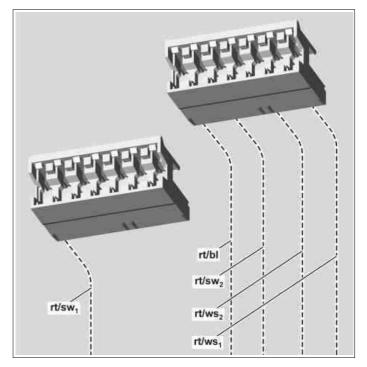
22	Control unit wiring harness
F4	Rear fuse box
N10	SAM control unit
N28/1	Trailer recognition control unit
W7	Right rear center section ground point

W15/2	Left footwell ground point
X30/4	Right potential distributor electrical connector (CAN)
X58/11	Trailer socket (7-pin)
X58/28	Electric-Brake-Control electrical connector
X58/33	Vehicle interior/trailer hitch electrical connector

1 Note down contact cavity assignment of green fuse holders at branch-off lines of control unit wiring harness.

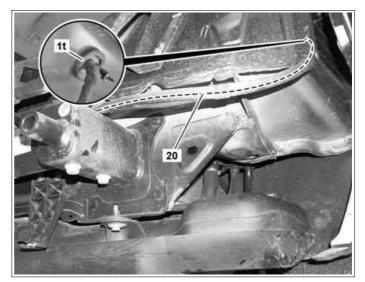
1 The contact cavities of the green fuse holders are numbered.

- 2 Remove red/black line (rt/sw₁) from the green fuse holder.
- 3 Remove red/blue line (rt/bl), red/black line (rt/sw₂) and red/white lines (rt/ws₁, rt/ws₂) from green fuse holder.



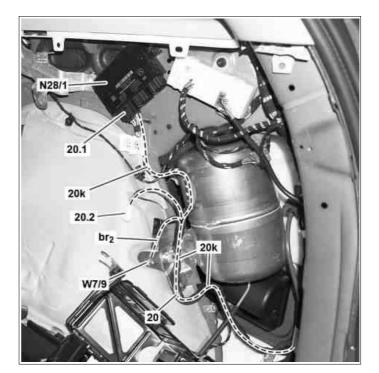
P31.19-2642-12

- 4 Remove stop plug at bottom from right sidewall and route trailer hitch wiring harness (20) into vehicle.
- 5 Insert grommet (1t) into the right sidewall.
- 6 Fasten trailer hitch wiring harness (20) to the rear center section using felt bands.



P31.19-2620-11

- 7 Route trailer hitch wiring harness (20) to trailer recognition control unit (N28/1) and fix in place using clamps (20k).
- 8 Connect black 16-pin connector (20.1) to trailer recognition control unit (N28/1).
- 9 Connect brown line (BN₂) of the trailer hitch wiring harness (20) to trailer hitch ground point (W7/9) Mm.

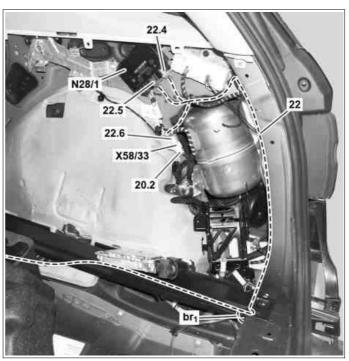


P31.19-2907-12

- 10 Connect blue 12-pin connector (22.4) of control unit wiring harness (22) to trailer recognition control unit (N28/1).
- 11 Connect red 12-pin connector (22.5) of control unit wiring harness (22) to trailer recognition control unit (N28/1).
- 12 Connect white 2-pin plug (22.6) to white 2-pin connector (20.2).

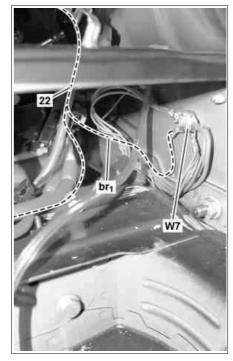
1 This makes the electrical connection for the vehicle interior/trailer hitch (X58/33).

- 13 Route control unit wiring harness (22), as shown, along existing wiring harnesses to the crossmember under the right rear seat and fix in place using cable ties.
- 14 Route brown line (BN₁) of control unit wiring harness (22) to right side of rear center section.



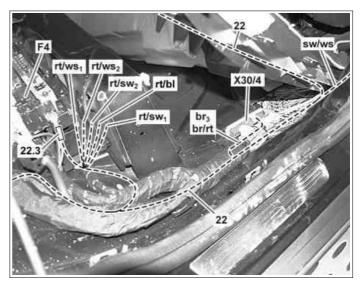
P31.19-2908-12

15 Connect brown line (br₁) of the control unit wiring harness (22) to right rear center section ground point (W7) Mm.



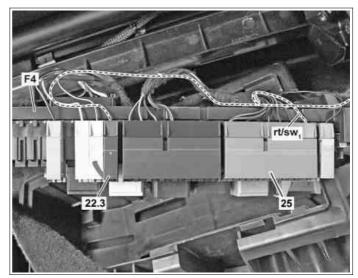
P31.19-2616-03

- 16 Lift right rear floor covering.
- 17 Route branch-off line with the blue fuse holder (22.3), the red/blue line (rt/bl), the two red/black lines (rt/sw₁, rt/ sw₂) and the two red/white lines (rt/ws₁, rt/ws₂) to rear fuse box (F4).
- 18 Route twisted brown line (BN₃) and brown/red line (BN/ RD) to right potential distributor electrical connection (CAN) (X30/4).



P31.19-2639-11

- 19 Detach green fuse holder (25) from rear fuse box (F4).
- 20 Install red/black line (rt/sw1) in contact cavity **1** of the green fuse holder (25).
- 21 Attach green fuse holder (25) to rear fuse box (F4).
- 22 Attach blue fuse holder (22.3) to rear fuse box (F4).

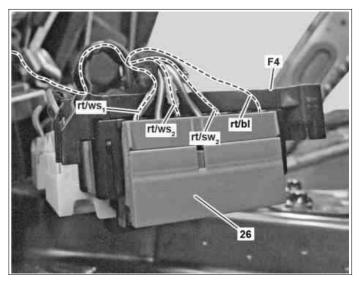


P31.19-2645-11

- 23 Detach green fuse holder (26) from rear fuse box (F4).
- 24 Install red/blue line (rt/bl), red/black line (rt/sw₂) and red/ white lines (rt/ws₁, rt/ws₂) in the green fuse holder (26).

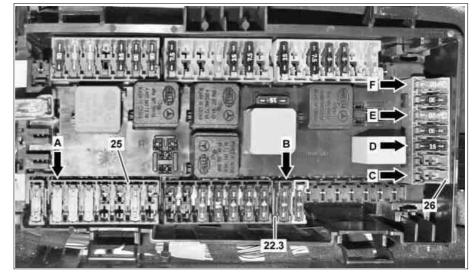
i Observe previously noted contact cavity assignments.

25 Attach green fuse holder (26) to rear fuse box (F4).



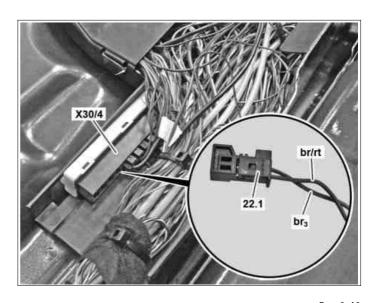
P31.19-2643-11

- 26 Insert electrical fuse 101 with a fuse rating of 20 amps into slot
 1 (arrow A) of the green fuse holder (25).
- 27 Insert electrical fuse 115 with a fuse rating of 5 amps into slot (arrow B) of the blue fuse holder (22.3).
- 28 Insert electrical fuse 126 with a fuse rating of 15 amps into slot 3 (arrow A) of the green fuse holder (26).
- Insert electrical fuse 124 with a fuse rating of 30 amps into slot
 1 (arrow A) of the green fuse holder (26).
- 30 Insert electrical fuse 128 with a fuse rating of 20 amps into slot 5 (arrow A) of the green fuse holder (26).
- Insert electrical fuse 130 with a fuse rating of 20 amps into slot
 7 (arrow A) of the green fuse holder (26).



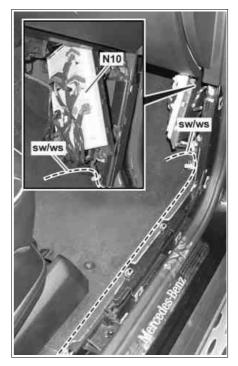
P31.19-2646-05

32 Install black 2-pin connector (22.1) with twisted brown line (br₃) and brown/red line (br/rt) into any free slot of the right potential distributor electrical connection (CAN) (X30/4).



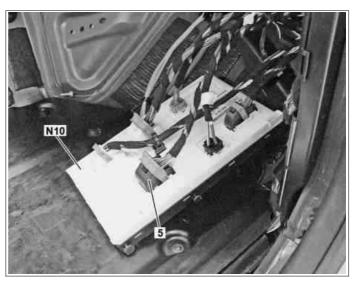
33 Route black/white line (BK/WH) along existing lines to SAM control unit (N10) and fix in place using cable ties.

i Use a pull-through device.



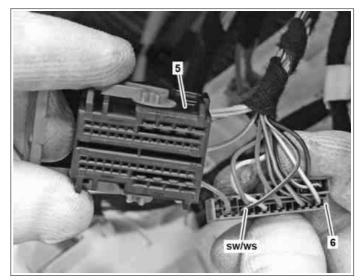
P31.19-2647-03

34 Detach black, 48-pin connector (5) from SAM control unit (N10).

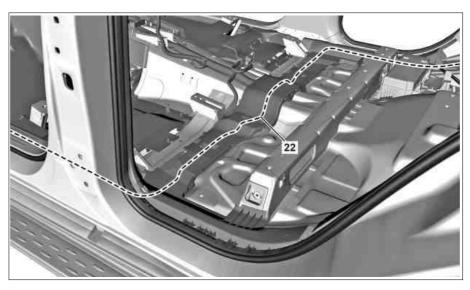


P31.19-2567-11

- 35 Remove gray, 24-pin connector insert (6) from the carrier body of the black, 48-pin connector (5).
- 36 Install black/white line (sw/ws) in contact cavity chamber 35 of the gray 24-pin connector insert (6).
- 37 Install gray, 24-pin connector insert (6) into the carrier body of the black, 48-pin connector (5).
- 38 Connect black, 48-pin connector (5) to SAM control unit.



- 39 Fold back rear floor covering.
- 40 Open cable ducts of frame floor assembly up to driver footwell.
- 41 Route control unit wiring harness (22) in cable ducts up to the driver footwell and fix in place using cable ties.
- 42 Close cable ducts of frame floor assembly.
- 43 Fold back rear floor covering and straighten.



P31.19-2651-05

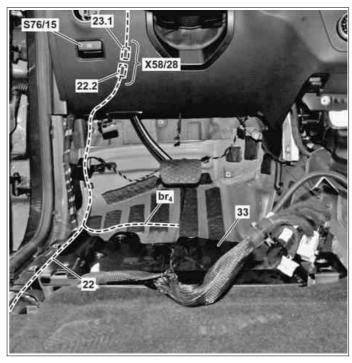
44 Route branch-off line with green, 4-pin connector (22.2) behind the instrument panel to the 4-pin, plug connector (23.1) and fix in place using cable ties.

i The 4-pin, plug connector (23.1) is located at the right next to the electric parking brake switch (S76/15).

45 Connect green 4-pin connector (22.2) to 4-pin plug (23.1).

1 This serves to make the electrical connection for the Electric Brake Control (X58/28).

46 Remove footwell cover (33).

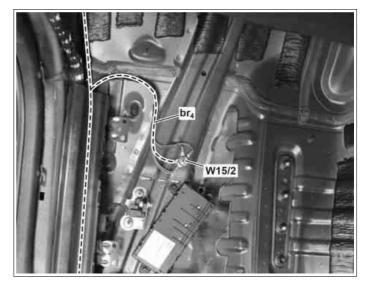


P31.19-2649-12

- 47 Route brown line (BN₄) to right footwell ground point (W15/2) and fix in place using cable ties.

i The crimper is included in the \Im basic wiring harness repair kit and the \Im passenger car supplementary wiring harness repair kit.

- 49 Connect brown line (BN₄) to left footwell ground point (W15/2) Mm.
- 50 Install footwell cover again.



P31.19-2650-11