| 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

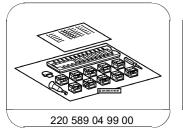
| Number | Designation | | | Model 166 |
|--------------------|--|----|----|-----------|
| BA00.19-P-1006-01G | Right rear center section ground point | W7 | Nm | 10 |

Nm Ground points

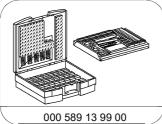
| Number | Designation | | | | Model 166 |
|--------------------|----------------------------|---|------|----|-----------|
| BA00.19-P-1007-01G | Trailer hitch ground point | N | W7/9 | Nm | 10 |

Nm Ground points

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



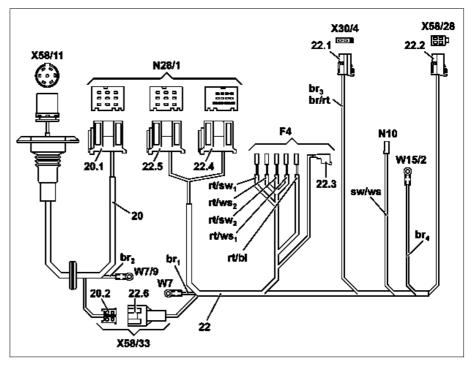
New passenger car wiring harness repair kit



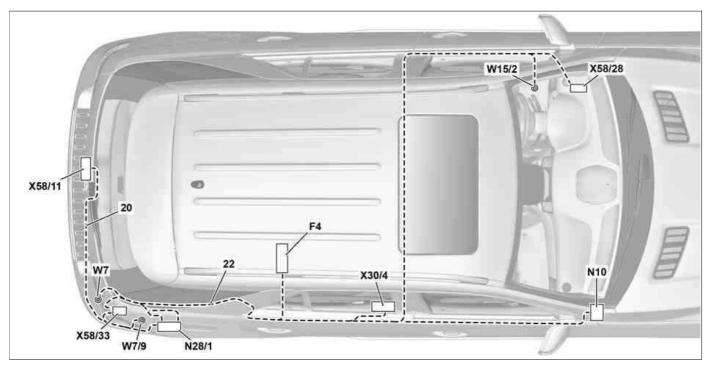
Wiring harness repair kit, basic

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

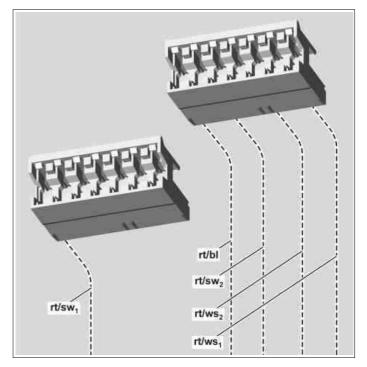
| 22 | Control unit wiring harness |
|-------|--|
| F4 | Rear fuse box |
| N10 | SAM control unit |
| N28/1 | Trailer recognition control unit |
| W7 | Right rear center section ground point |

| 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.

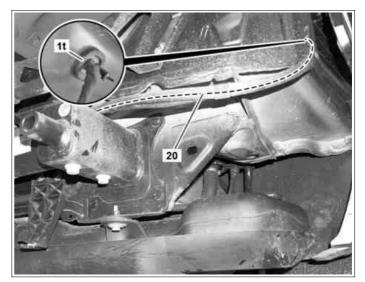
1 The contact cavities of the green fuse holders are numbered.

- 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.



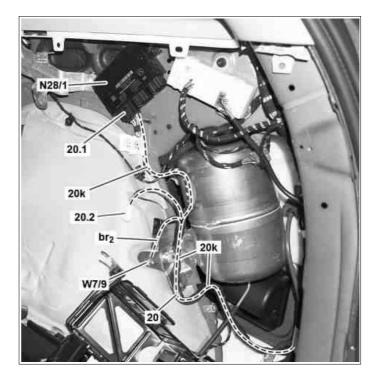
P31.19-2642-12

- 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.

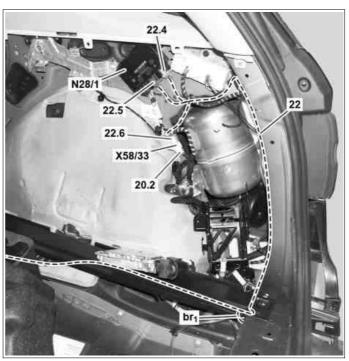


P31.19-2907-12

- 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).

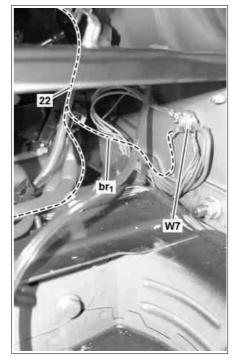
1 This makes the electrical connection for the vehicle interior/trailer hitch (X58/33).

- 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.



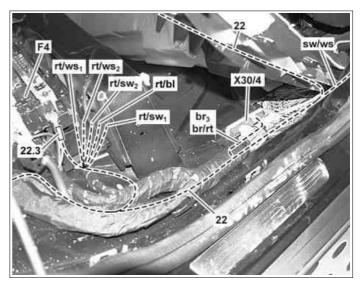
P31.19-2908-12

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



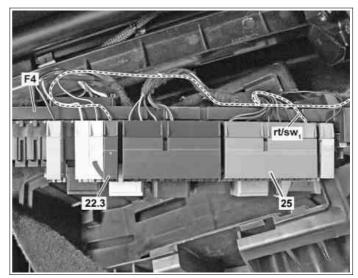
P31.19-2616-03

- 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).

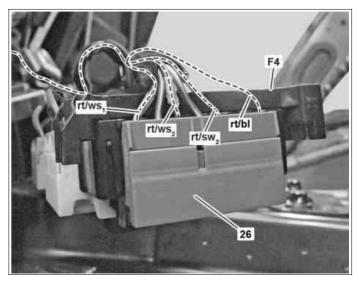


P31.19-2645-11

- 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).

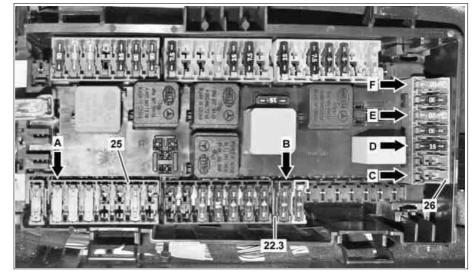
i Observe previously noted contact cavity assignments.

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



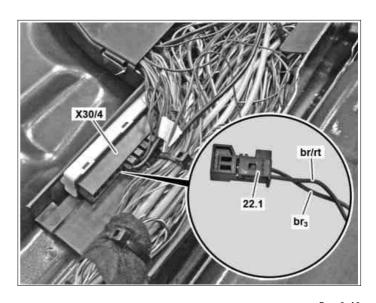
P31.19-2643-11

- 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).



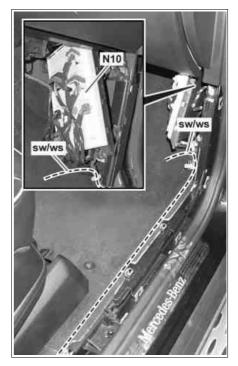
P31.19-2646-05

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).



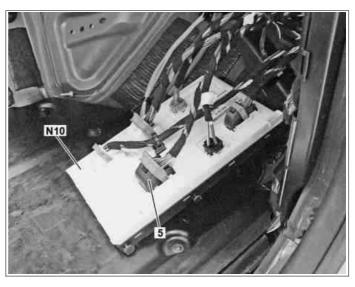
33 Route black/white line (BK/WH) along existing lines to SAM control unit (N10) and fix in place using cable ties.

i Use a pull-through device.



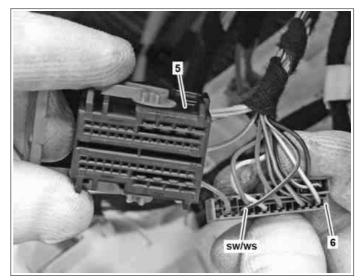
P31.19-2647-03

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

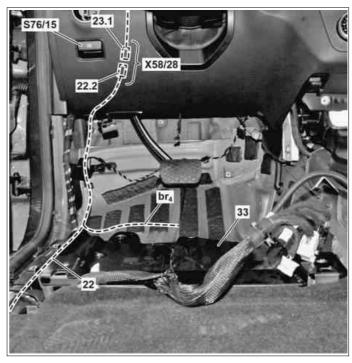
44 Route branch-off line with green, 4-pin connector (22.2) behind the instrument panel to the 4-pin, plug connector (23.1) and fix in place using cable ties.

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).

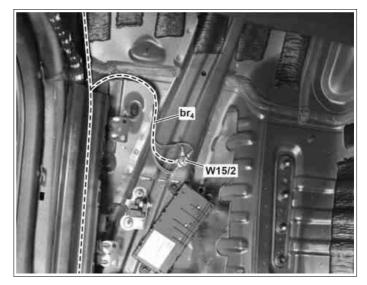


P31.19-2649-12

- 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