

AN54.65-P-0030-03MFR	Retrofit the backup camera wiring harness		
	Notes on the use of paint scraping nuts on ground connections		AH00.19-P-1000-20A
	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
	Notes on retrofitting electrical/optical lines		AH82.00-P-0000-01A

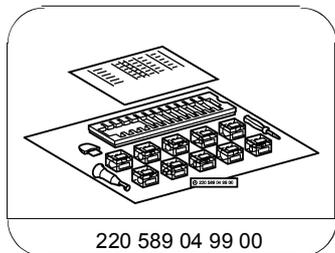
Model 177.0## 2#

Nm Ground points

Number	Designation				Model 177
BA00.19-P-1013-02E	Right tailgate ground point	W8/5	M6	Nm	10

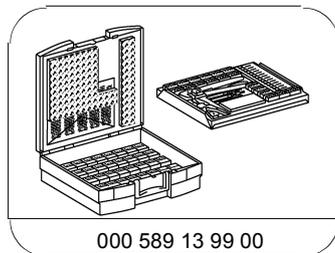
Nm Ground points

Number	Designation				Model 177
BA00.19-P-1019-02E	Right front footwell ground point	W15	M6	Nm	10



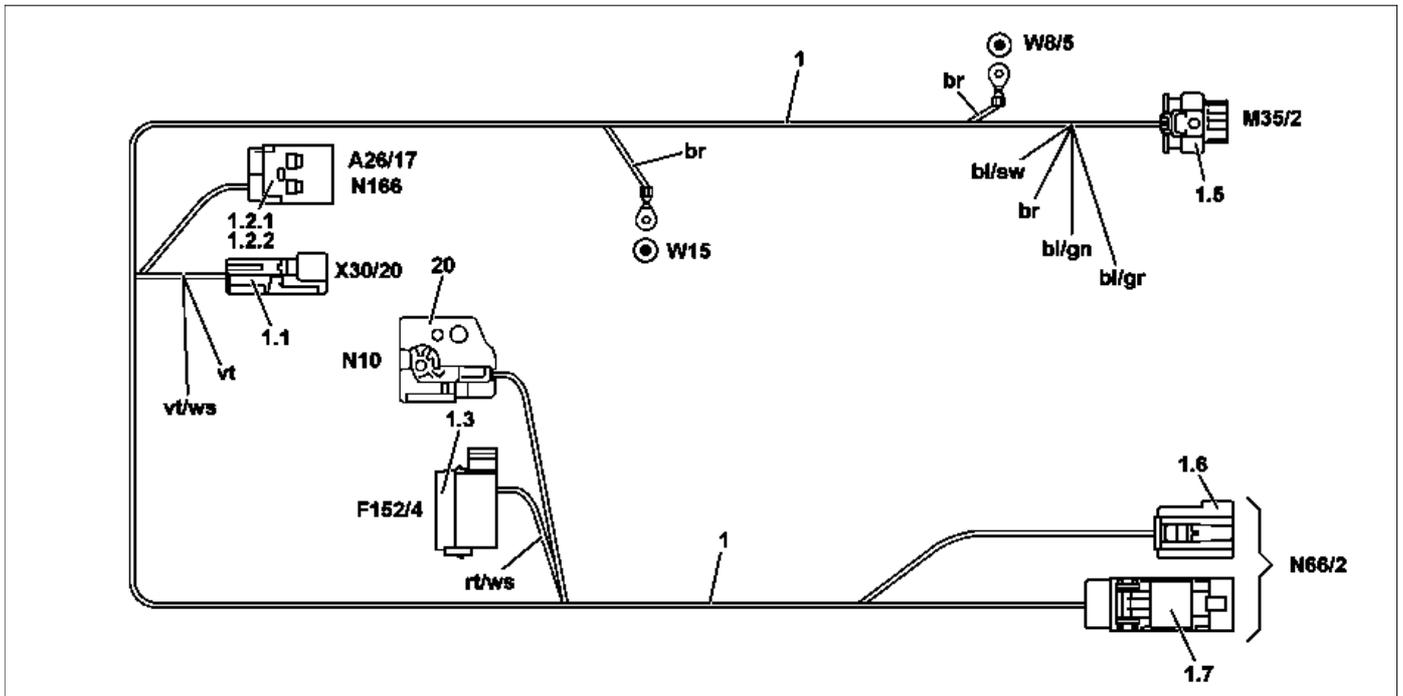
220 589 04 99 00

New passenger car wiring harness repair kit



000 589 13 99 00

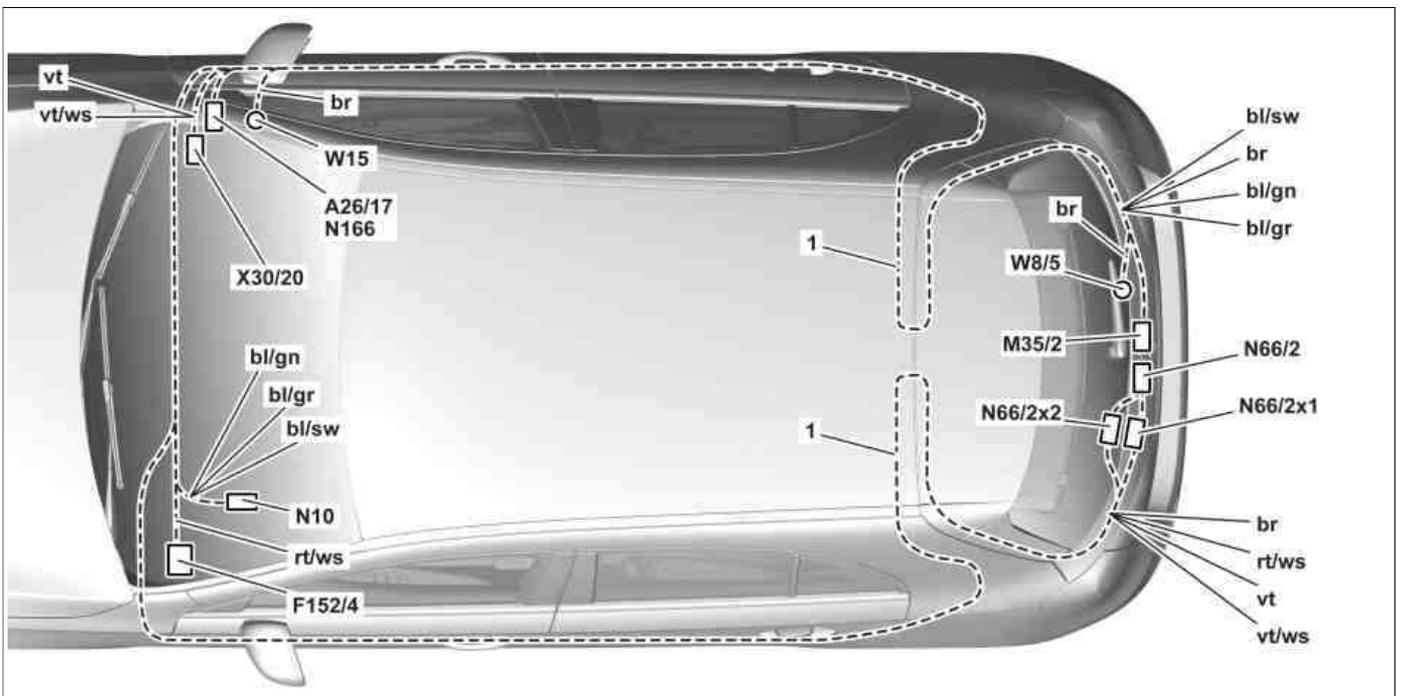
Wiring harness repair kit, basic



P54.65-6360-09

Connection scheme

1	Backup camera wiring harness	A26/17	Head unit (with code 547 (Connect 20 Entry (NTG6)) or code 548 (Connect 20 MID (NTG6)) or code 549 (Connect 20 HIGH (NTG6)))	X30/20	User interface CAN (CAN HMI) potential distributor
1.1	Brown 2-pin connector socket	F152/4	Vehicle interior fuse and relay module	bl/gn	Blue/green line
1.2.1	Green 2-pin connector socket (with code 545 (Connect 5 (NTG6)))	M35/2	Rear camera cover motor	bl/gr	Blue/gray line
1.2.2	Blue 1-pin connector socket (with code 547 (Connect 20 Entry (NTG6)) or code 548 (Connect 20 MID (NTG6)) or code 549 (Connect 20 HIGH (NTG6)))	N10	Central control module	bl/sw	Blue/black line
1.3	Black fuse holder	N66/2	Backup camera control unit	br	Brown line
1.5	Black 4-pin connector socket	N166	Head unit/instrument cluster control unit (with code 545 (Connect 5 (NTG6)))	rt/ws	Red/white line
1.6	White 4-pin jack	W8/5	Right tailgate ground point	vt	Violet line
1.7	Transparent 1-pin connector socket	W15	Right front footwell ground point	vt/ws	Violet/white line
20	White 63-pin connector socket				



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Routing diagram

1	Backup camera wiring harness	N66/2x2	Reversing camera control unit electrical connector 2	bl/gr	Blue/gray line
A26/17	Head unit (with code 547 (Connect 20 Entry (NTG6)) or code 548 (Connect 20 MID (NTG6)) or code 549 (Connect 20 HIGH (NTG6)))	N166	Head unit/instrument cluster control unit (with code 545 (Connect 5 (NTG6)))	bl/sw	Blue/black line
F152/4	Vehicle interior fuse and relay module	W8/5	Right tailgate ground point	br	Brown line
M35/2	Rear camera cover motor	W15	Right front footwell ground point	rt/ws	Red/white line
N10	Central control module	X30/20	User interface CAN (CAN HMI) potential distributor	vt	Violet line
N66/2	Backup camera control unit	bl/gn	Blue/green line	vt/ws	Violet/white line
N66/2x1	Reversing camera control unit electrical connector 1				

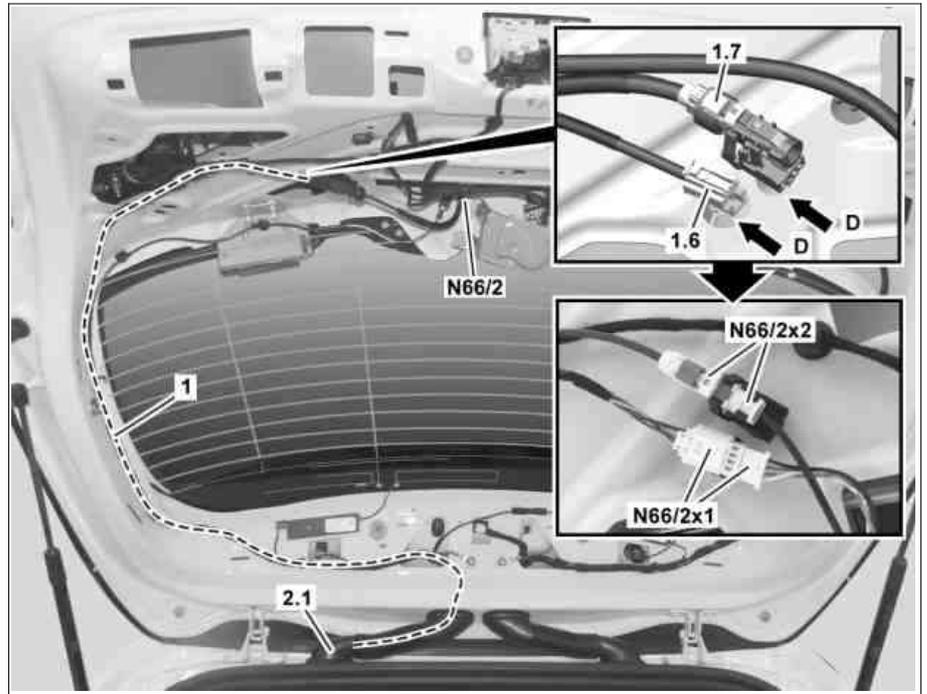
- 1 Remove all the fasteners on the reversing camera wiring harness (1).

i The fasteners are no longer required.

- 2 Route transparent 1-pin connector socket (1.7) and white 4-pin connector socket (1.6) of reversing camera wiring harness (1) through left cable duct (2.1) from vehicle interior up to installation location of reversing camera control unit (N66/2).

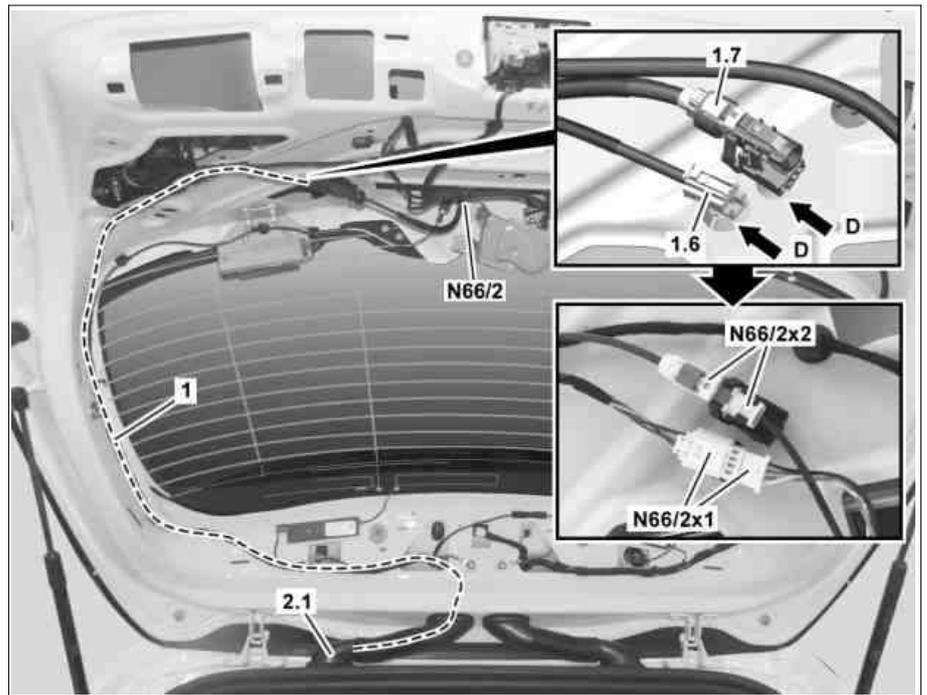
- 3 Connect reversing camera control unit (N66/2) to transparent 1-pin connector socket (1.7) and to white 4-pin connector socket (1.6).

i This connects the reversing camera control unit electrical connector 1 (N66/2x1) and reversing camera control unit electrical connector 2 (N66/2x2).

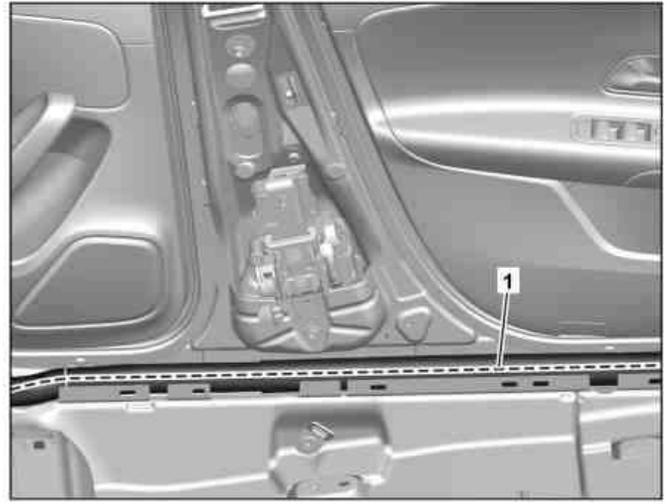
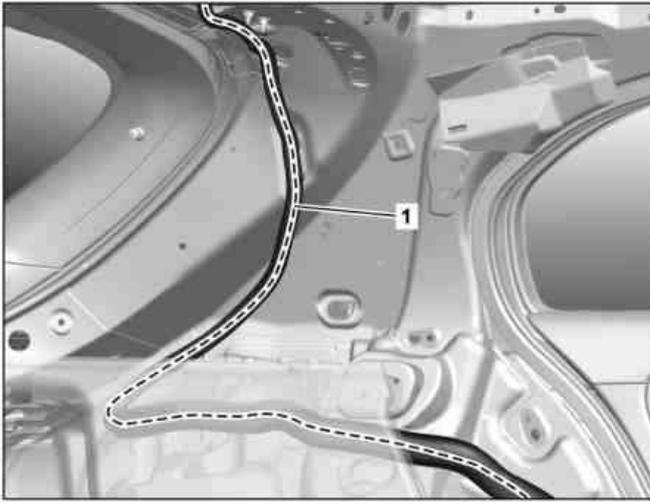


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- 4 Use holders (arrows D) to clip reversing camera control unit electrical connector 1 (N66/2x1) and reversing camera control unit electrical connector 2 (N66/2x2) onto liftgate inner panel.



P54.65-A055-06

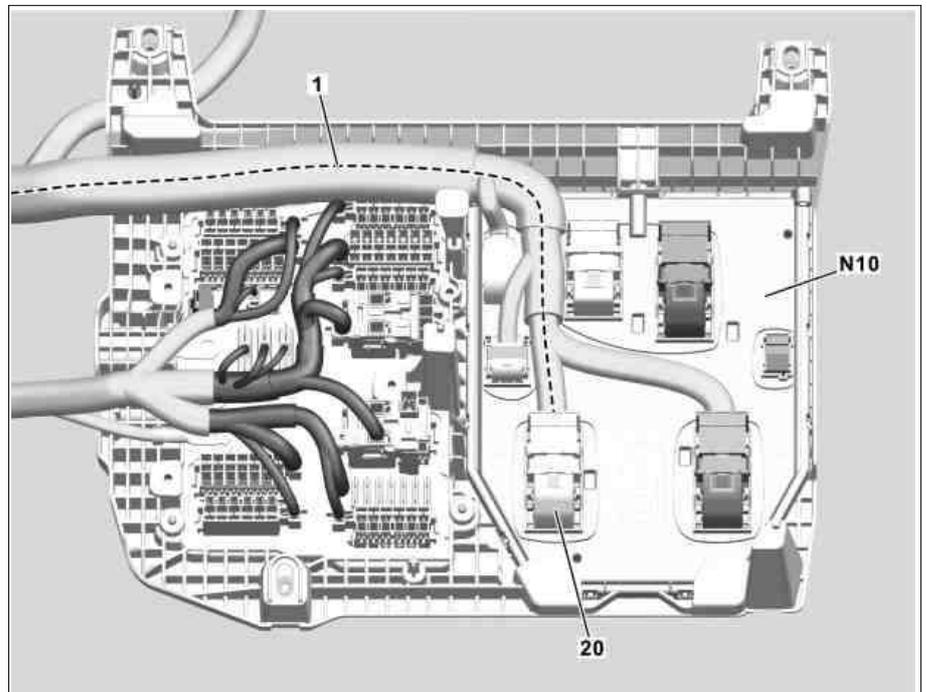


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5 Route reversing camera wiring harness (1) forward until in the footwell.

6 Route blue/green line (BU/GN), blue/gray line (BU/GY) and blue/black line (BU/BK) to central control unit (N10).

7 Detach white 63-pin connector socket (20) from central controller unit (N10).



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8 Remove black 34-pin connector socket insert from white 63-pin connector socket (20).

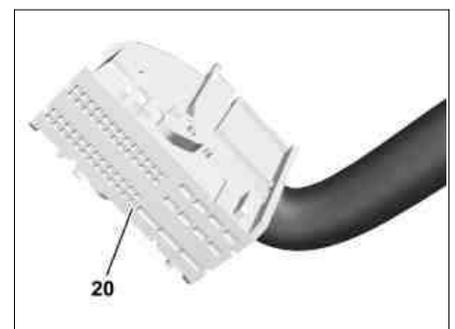
9 Install lines previously routed to central control unit (N10) into black 34-pin connector socket insert.

i **Contact cavity assignment:**
 Contact cavity 19 = Blue/green line
 Contact cavity 20 = Blue/gray line
 Contact cavity 25 = Blue/black line

i The appropriate tool is available in the  basic wiring harness repair kit or the  supplementary passenger car wiring harness repair kit.

10 Install the black 34-pin connector socket insert into the white 63-pin connector socket (20).

11 Attach white 63-pin connector socket (20) to central controller unit (N10).

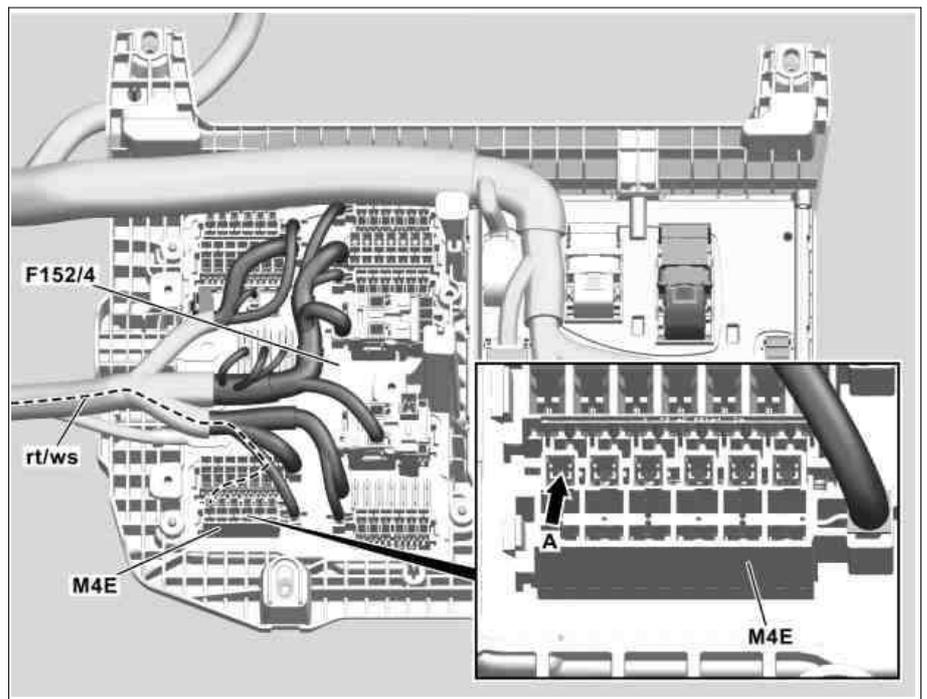


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12 Route red/white line (RD/WH) of reversing camera wiring harness (1) to vehicle interior fuse and relay module (F152/4).

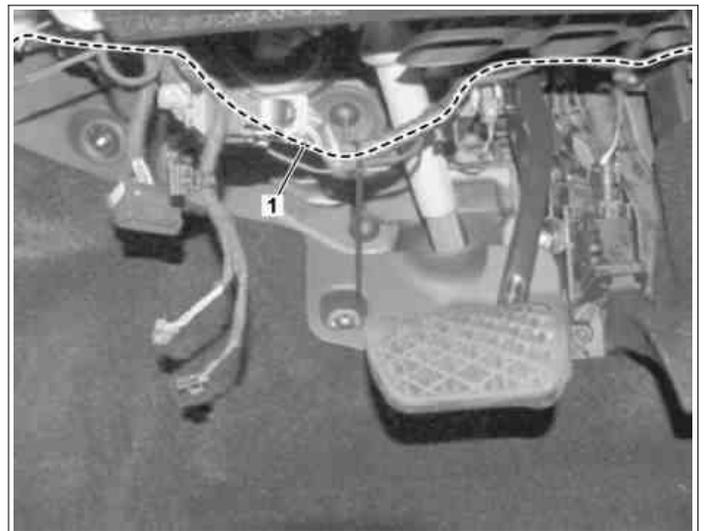
13 Install red/white line (RD/WH) of reversing camera wiring harness (1) into contact cavity "6" (arrow A) of black fuse holder (M4E) of vehicle interior fuse and relay module (F152/4).

i Contact cavity "6" (arrow A) of black fuse holder (M4E) is labeled.



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14 Route reversing camera wiring harness (1) into right footwell via transmission tunnel.



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15 Model 177.0## 2#
with code 545 (Connect 5 (NTG6))
Route black line with green 2-pin connector socket (1.2.1) of reversing camera wiring harness (1) up to head unit/instrument cluster control unit (N166).

16 Model 177.0## 2#
with code 545 (Connect 5 (NTG6))
Remove green 2-pin connector socket (1.2.1) of reversing camera wiring harness (1) from the black line.

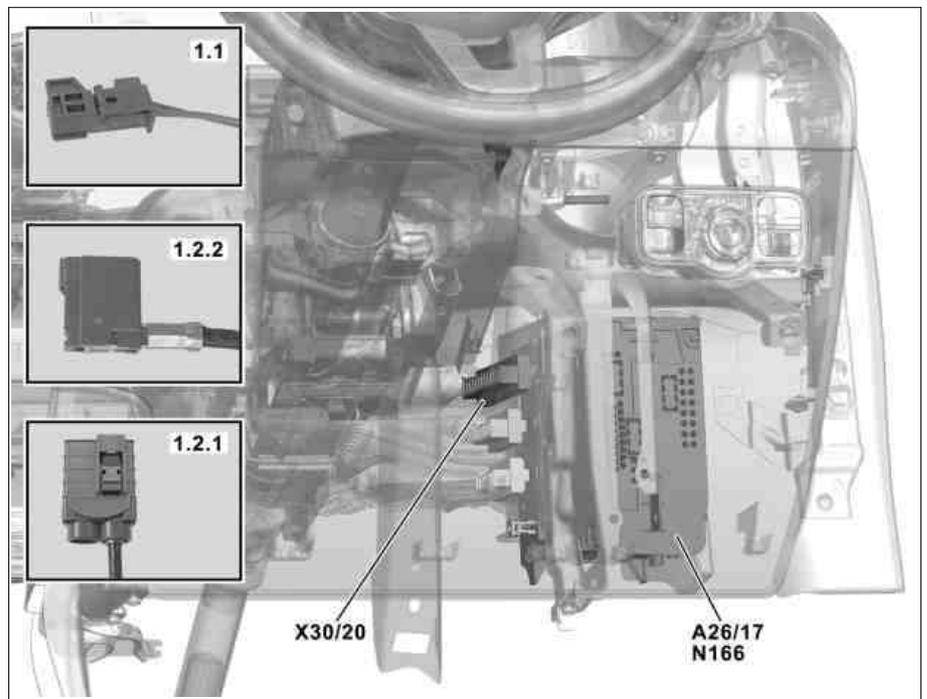
i The green 2-pin connector socket (1.2.1) is no longer required.

17 Model 177.0## 2#
with code 545 (Connect 5 (NTG6))
Remove green 2-pin connector socket from head unit/instrument cluster control unit (N166) and install black line of reversing camera wiring harness (1) into free contact cavity of green 2-pin connector socket.

18 Model 177.0## 2#
with code 545 (Connect 5 (NTG6))
Attach green 2-pin connector socket to head unit/instrument cluster control unit (N166).

19 Model 177.0## 2#
with code 547 (Connect 20 Entry (NTG6))
Model 177.0## 2#
with code 548 (Connect 20 MID (NTG6))
Model 177.0## 2#
with code 549 (Connect 20 HIGH (NTG6))
Route black line with blue 1-pin connector socket (1.2.2) of reversing camera wiring harness (1) up to head unit (A26/17) and attach to 1-pin blue slot.

20 Route brown 2-pin connector socket (1.1) of twisted violet line (VT) and violet/white line (VT/WH) of reversing camera wiring harness (1) up to user interface CAN (CAN HMI) potential distributor electrical connector (X30/20) and attach.

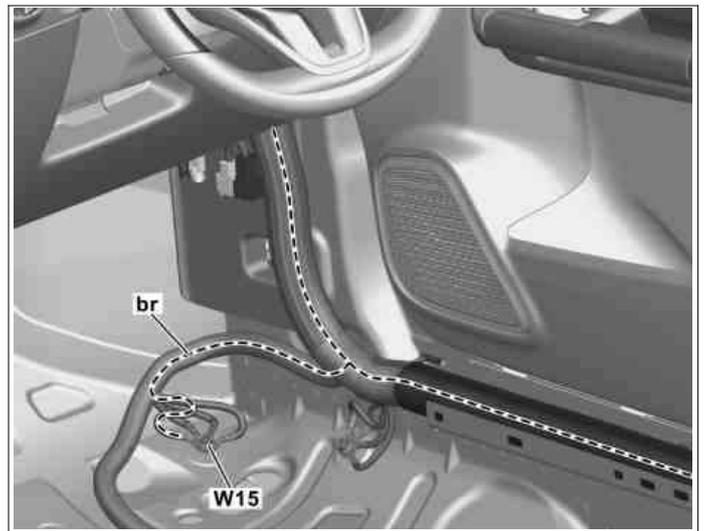


P54.65-A035-06

- 21 Attach a round cable lug with Ø 6 mm to brown line (BN) of reversing camera wiring harness.

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

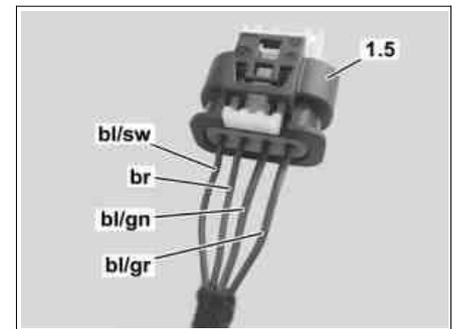
- 22 Connect brown line (BN) to front right footwell ground point (W15) .



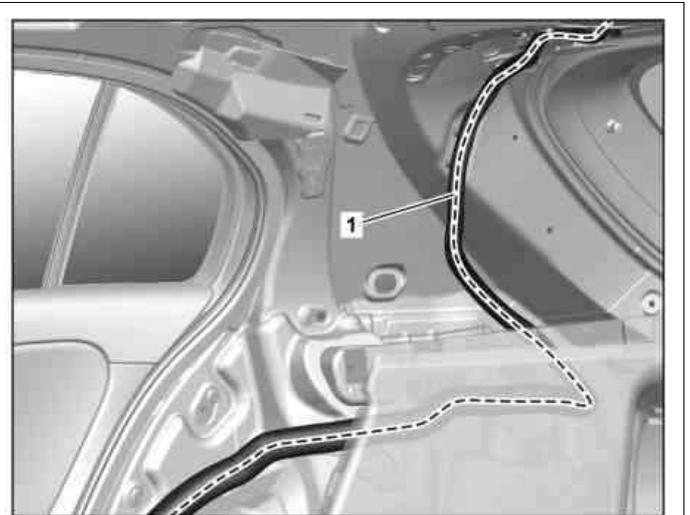
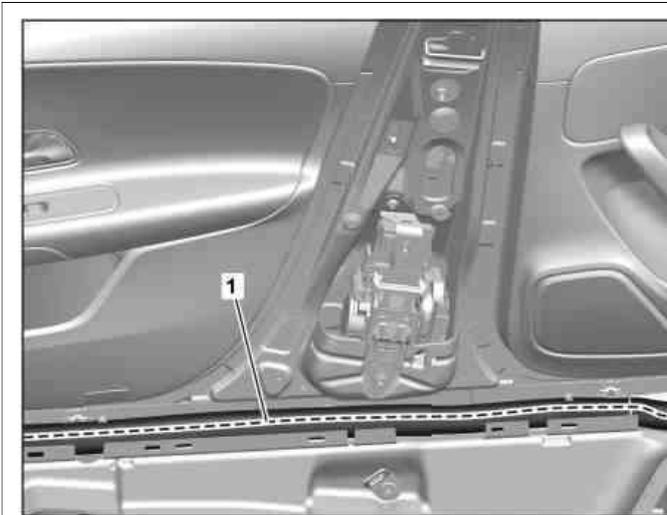
P54.65-A036-01

- 23 Note contact cavity assignment of black 4-pin connector socket (1.5).

- 24 Remove blue/black line (BU/BK), brown line (BN), blue/green line (BU/GN) and blue/gray line (BU/GY) from black 4-pin connector socket (1.5).



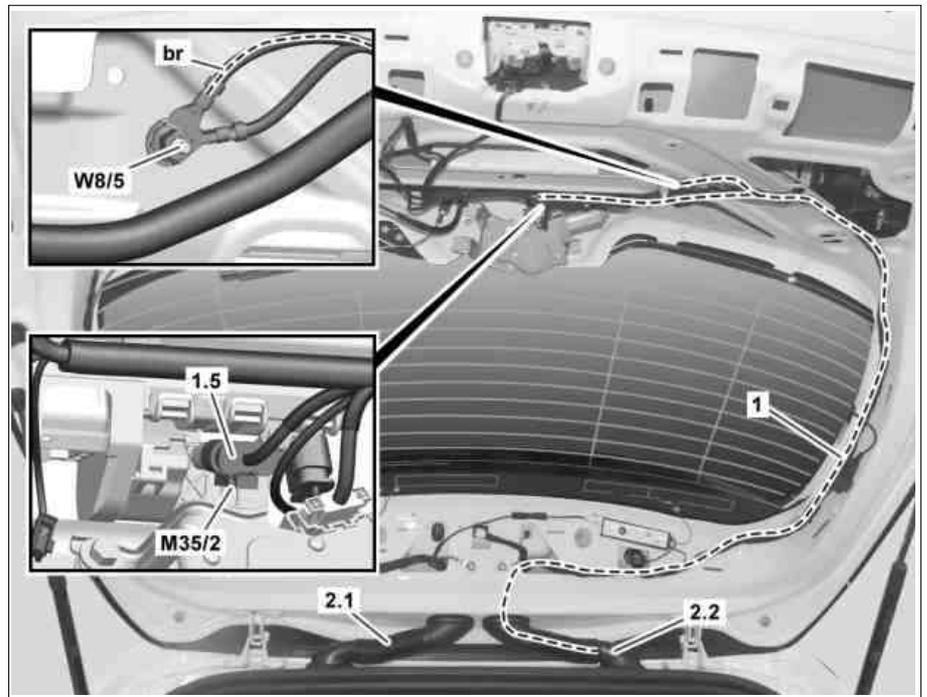
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P54.65-6365-08

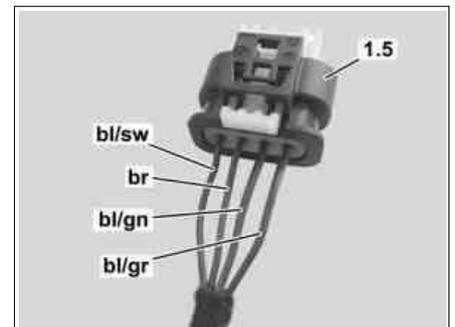
- 25 Route reversing camera wiring harness (1) toward rear.

- 26 Route blue/black line (BU/BK), brown line (BN), blue/green line (BU/GN) and blue/gray line (BU/GY) of reversing camera wiring harness (1) from vehicle interior through right cable duct (2.2) up to rear camera cover motor (M35/2) or right liftgate ground point (W8/5).



P54.65-6364-06

- 27 Install blue/black line (BU/BK), brown line (BN), blue/green line (BU/GN) and blue/gray line (BU/GY) into black 4-pin connector socket (1.5) again as noted.



P54.65-A043-01

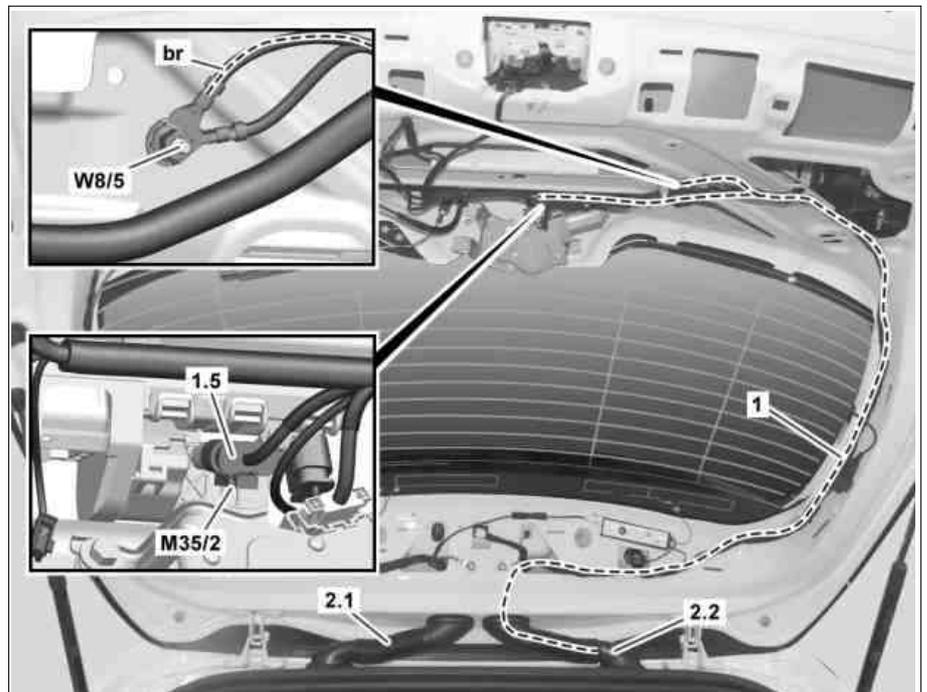
- 28 Connect black 4-pin connector socket (1.5) to rear camera cover motor (M35/2).

i The camera cover motor (M35/2) is located in the liftgate handle strip.

- 29 Attach a round cable lug with Ø 6 mm to brown line (BN).

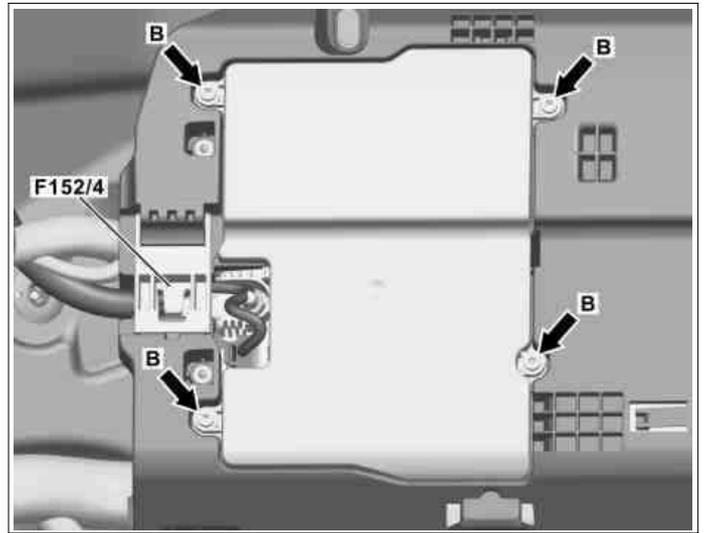
i The crimper is included in the  basic wiring harness repair kit and the  passenger car supplementary wiring harness repair kit.

- 30 Connect brown line (BN) to right liftgate ground point (W8/5) .



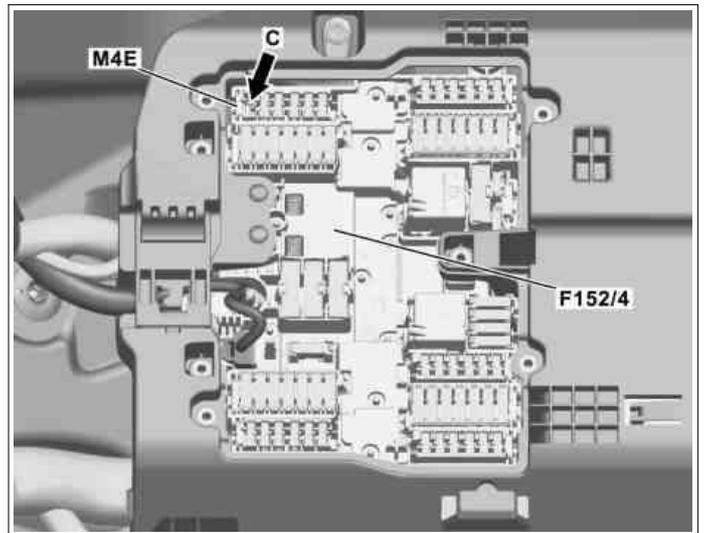
P54.65-6364-06

- 31 Release bolts (arrows B).
- 32 Remove cap from vehicle interior fuse and relay module (F152/4).



P54.65-A039-11

- 33 Insert a fuse with fuse rating 7.5 A into slot "171" (arrow C) of black fuse holder (M4E) on vehicle interior fuse and relay module (F152/4).



P54.65-A040-11