

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

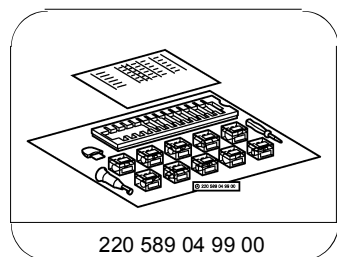
Model 177.0## 2#

 Ground points

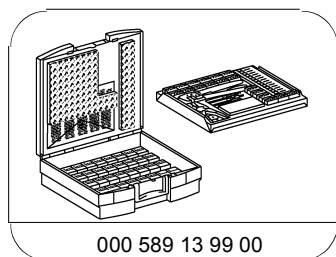
Number	Designation				Model 177
BA00.19-P-1013-02E	Right tailgate ground point	W8/5	M6	Nm	10

 Ground points

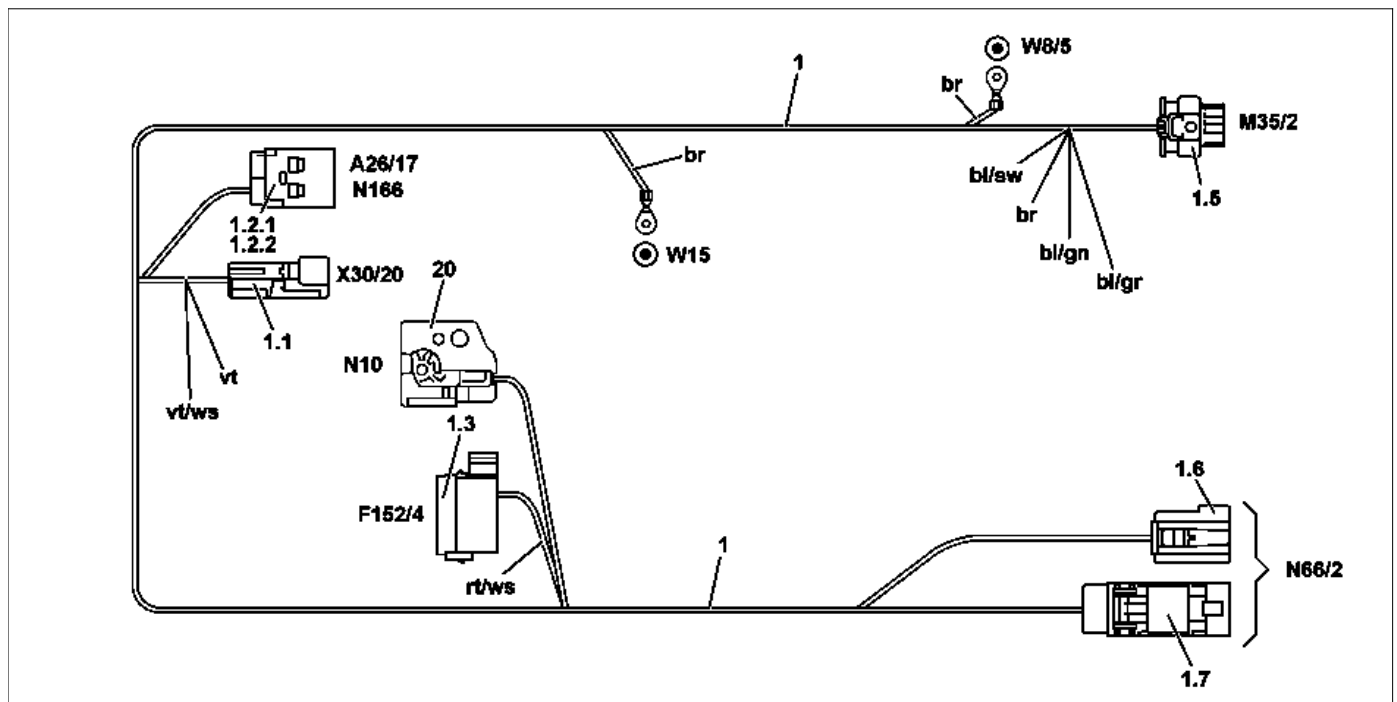
Number	Designation				Model 177
BA00.19-P-1019-02E	Right front footwell ground point	W15	M6	Nm	10



New passenger car wiring harness repair kit



Wiring harness repair kit, basic

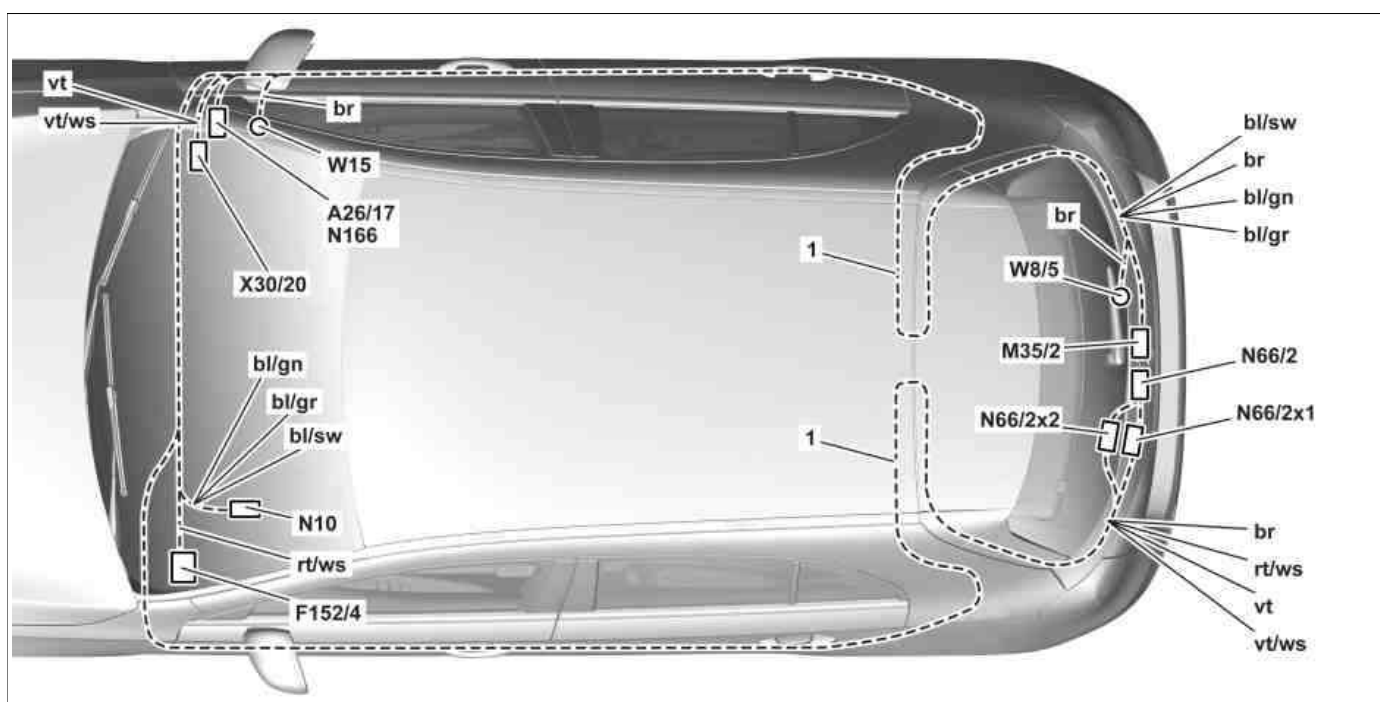


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## Connection scheme



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				



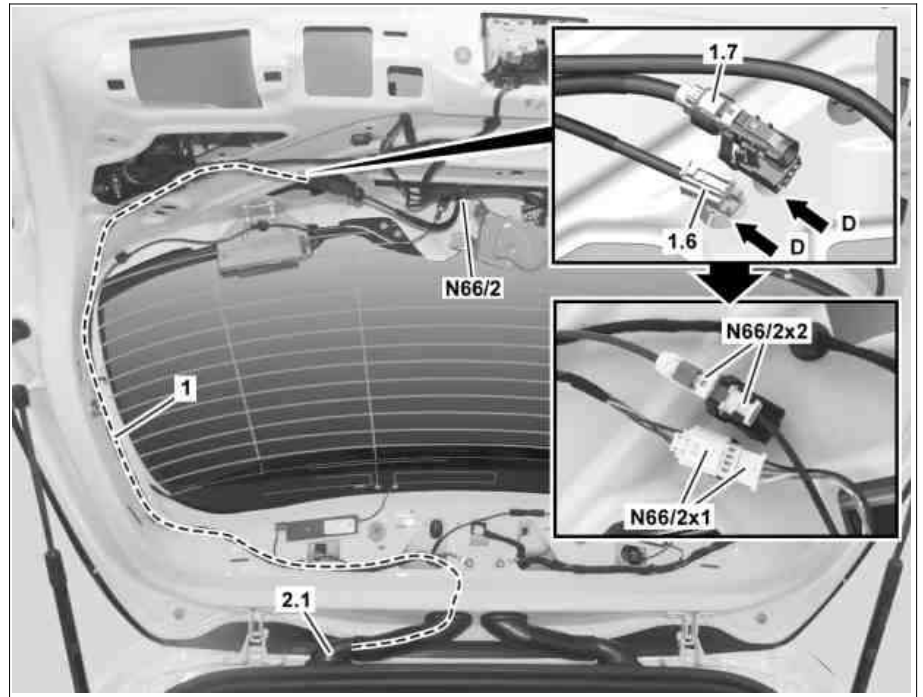
- 1 Remove all the fasteners on the reversing camera wiring harness (1).

**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).

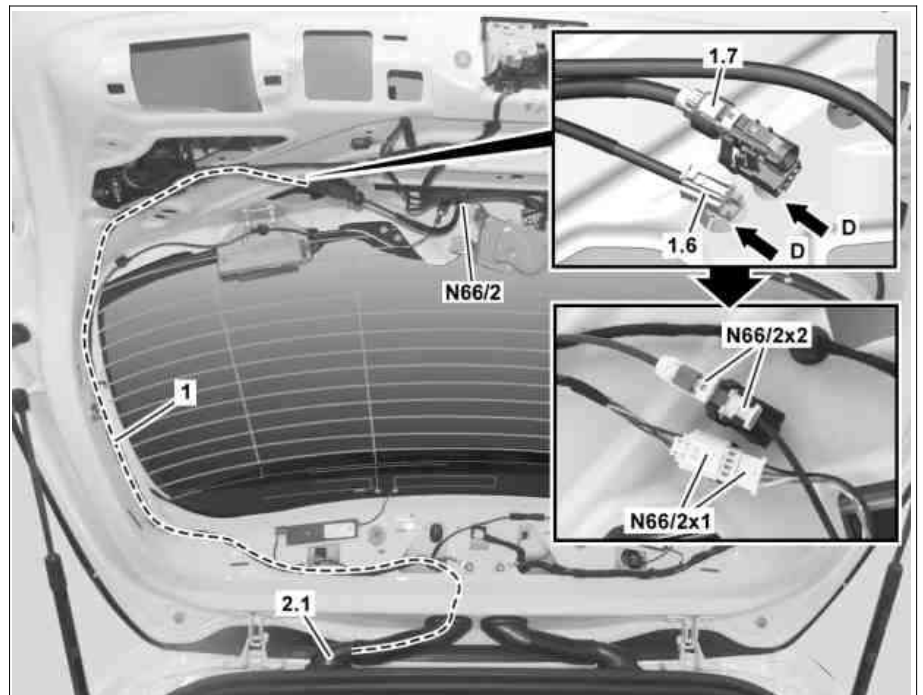
- 3 Connect reversing camera control unit (N66/2) to transparent 1-pin connector socket (1.7) and to white 4-pin connector socket (1.6).

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



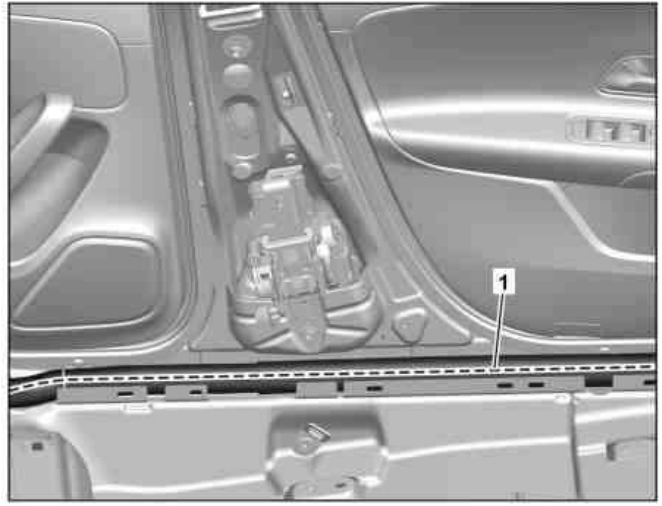
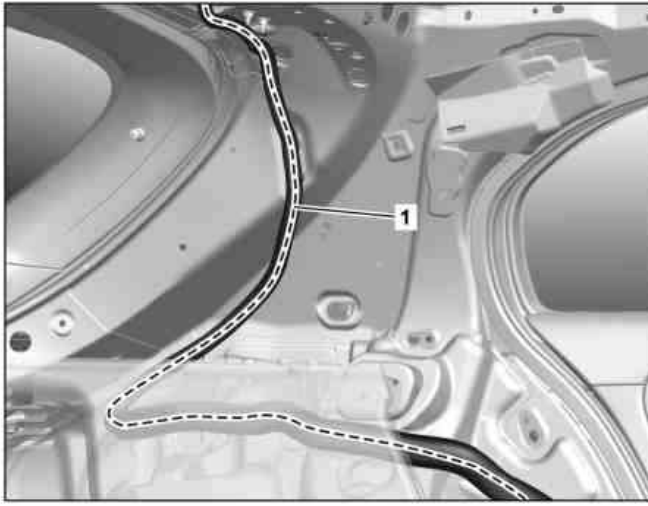
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- 4 Use holders (arrows D) to clip reversing camera control unit electrical connector 1 (N66/2x1) and reversing camera control unit electrical connector 2 (N66/2x2) onto liftgate inner panel.



P54.65-A055-06



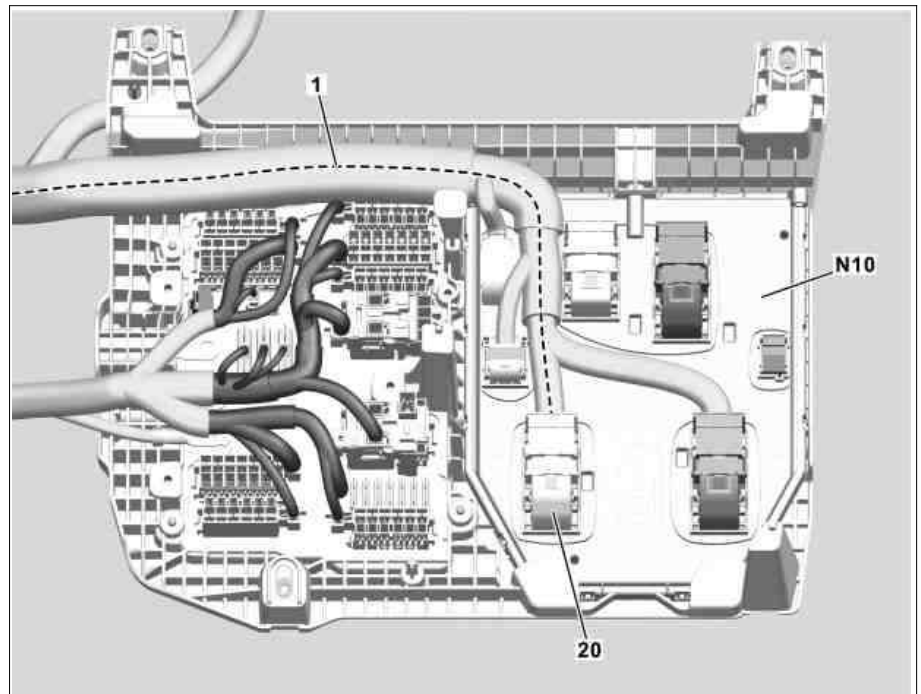


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- 5 Route reversing camera wiring harness (1) forward until in the footwell.

- 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).

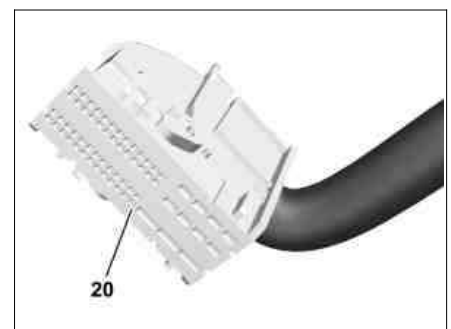
- 9 Install lines previously routed to central control unit (N10) into black 34-pin connector socket insert.

**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).



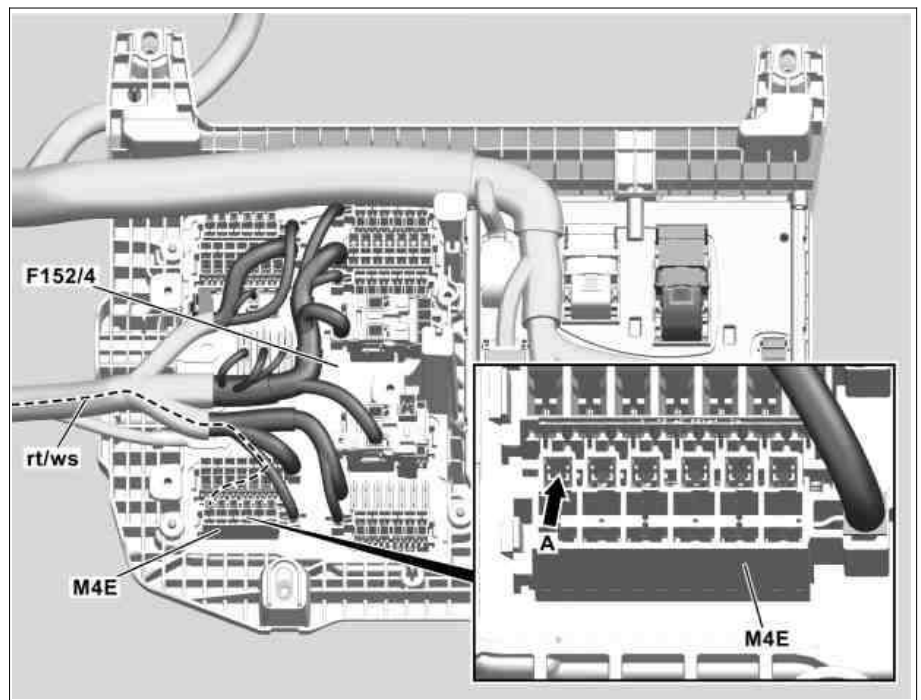
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- 12 Route red/white line (RD/WH) of reversing camera wiring harness (1) to vehicle interior fuse and relay module (F152/4).

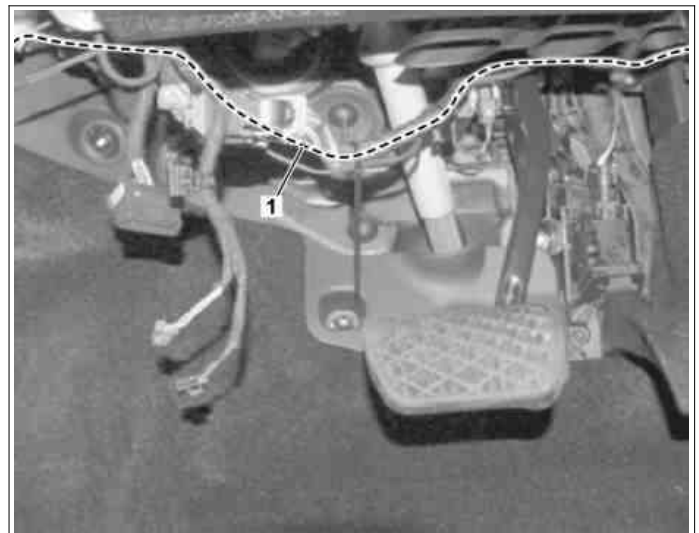
- 13 Install red/white line (RD/WH) of reversing camera wiring harness (1) into contact cavity "6" (arrow A) of black fuse holder (M4E) of vehicle interior fuse and relay module (F152/4).

**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.



P54.65-A038-11



- 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.

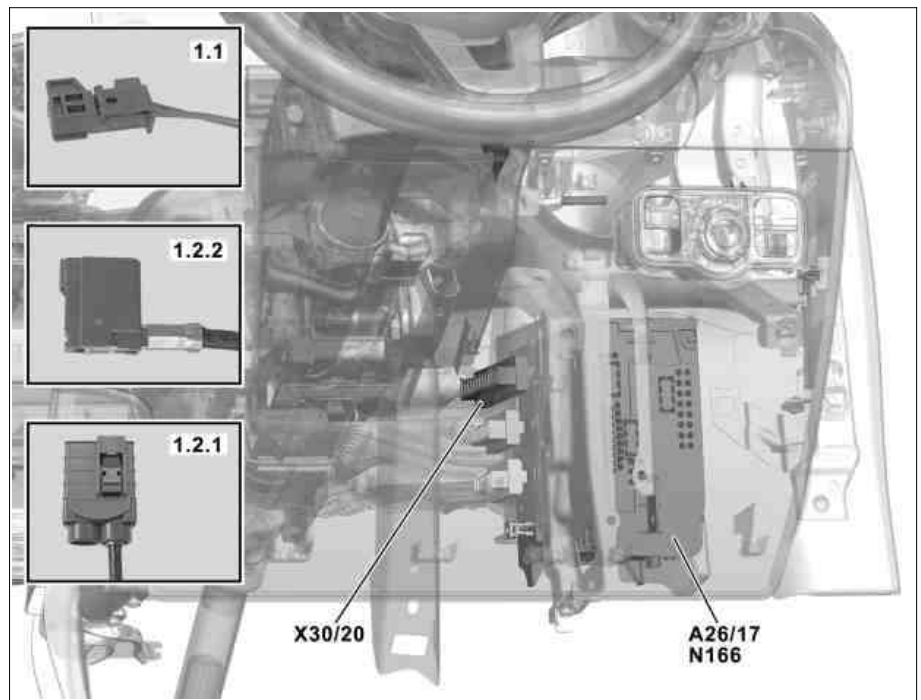
**i** The green 2-pin connector socket (1.2.1) is no longer required.

- 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.




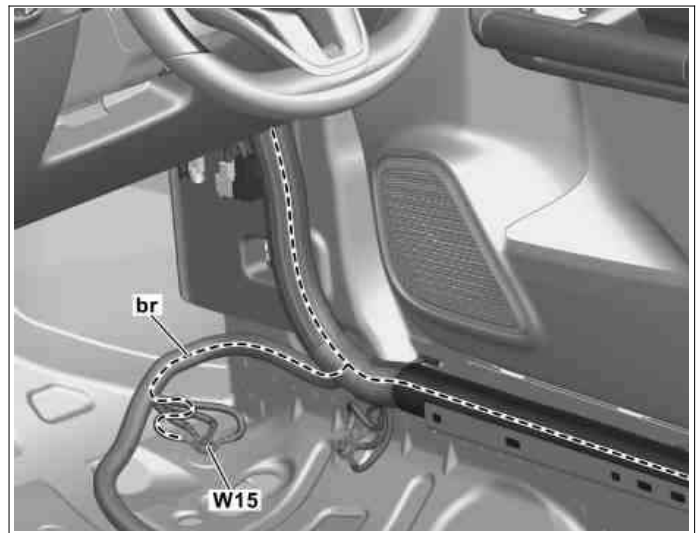
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- 21 Attach a round cable lug with Ø 6 mm to brown line (BN) of reversing camera wiring harness.

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

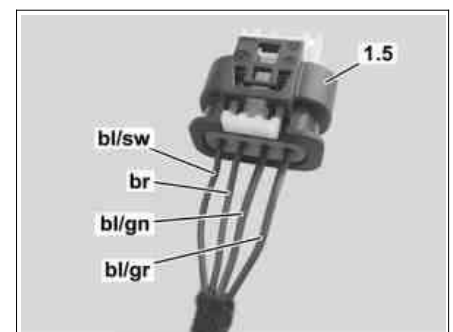
- 22 Connect brown line (BN) to front right footwell ground point (W15) .



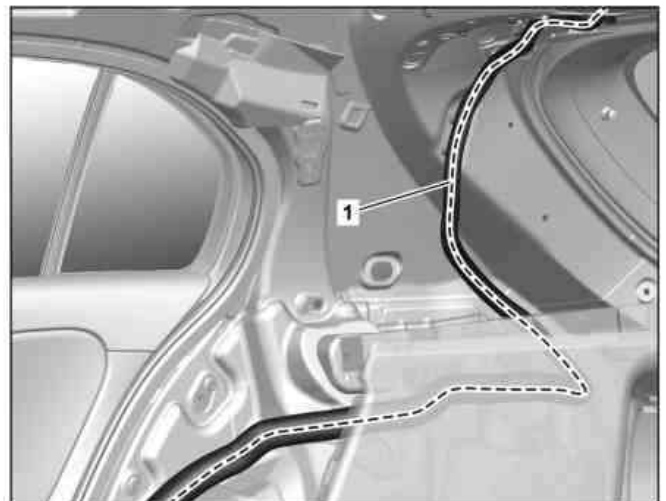
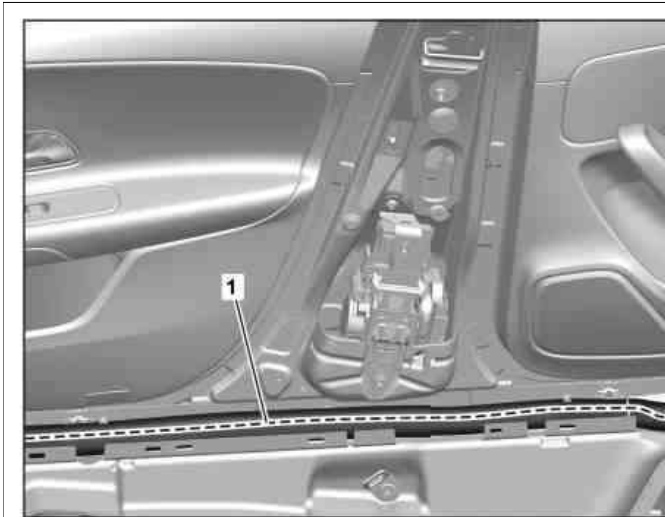
P54.65-A036-11

- 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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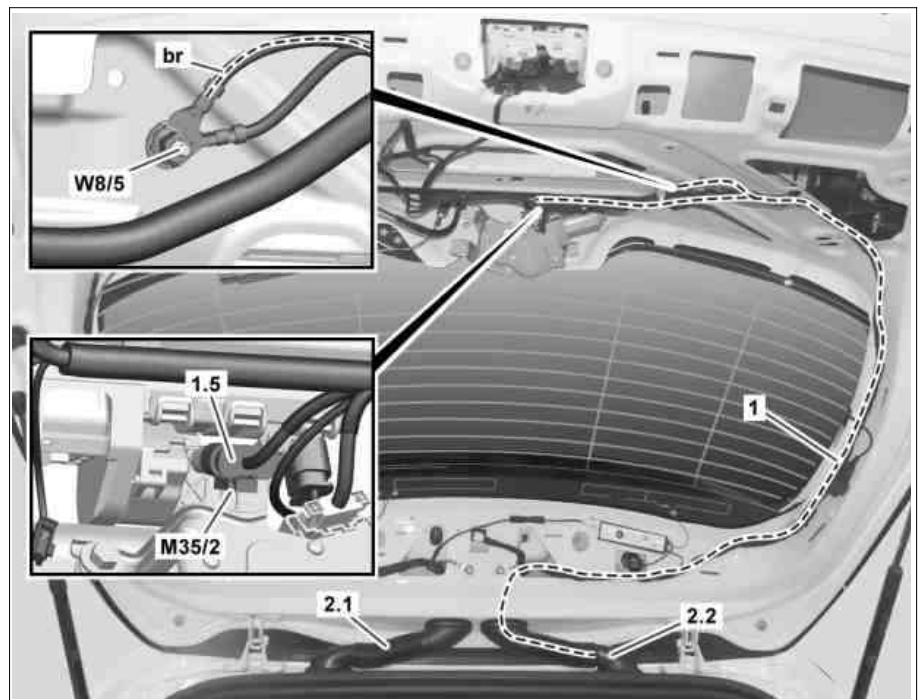


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- 25 Route reversing camera wiring harness (1) toward rear.

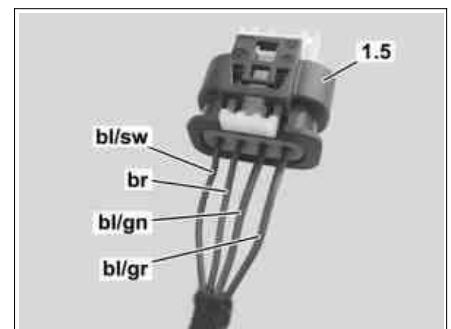


- 26 Route blue/black line (BU/BK), brown line (BN), blue/green line (BU/GN) and blue/gray line (BU/GY) of reversing camera wiring harness (1) from vehicle interior through right cable duct (2.2) up to rear camera cover motor (M35/2) or right liftgate ground point (W8/5).



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- 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.






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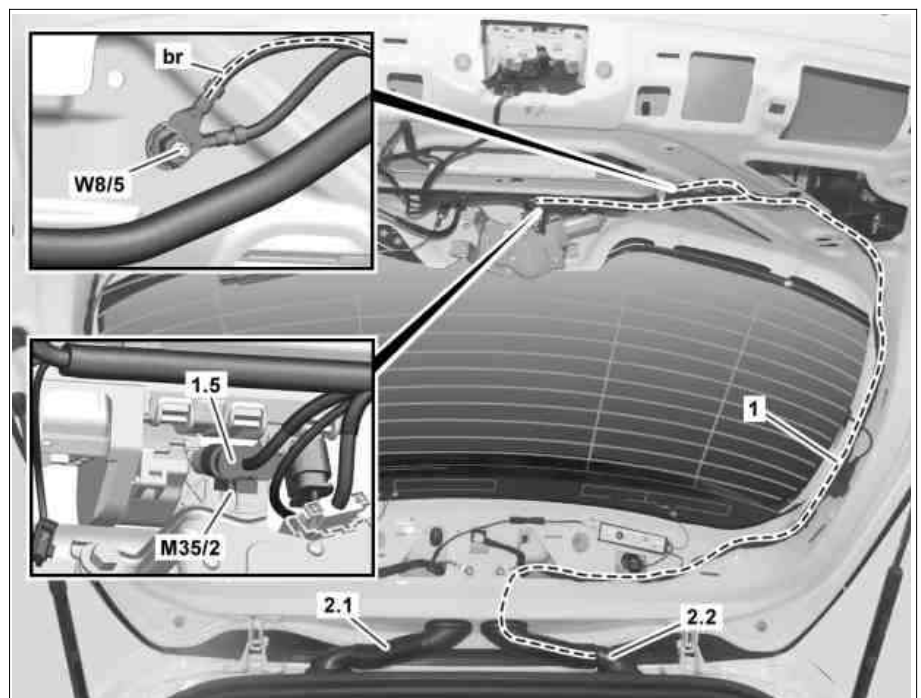
- 28 Connect black 4-pin connector socket (1.5) to rear camera cover motor (M35/2).

**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.

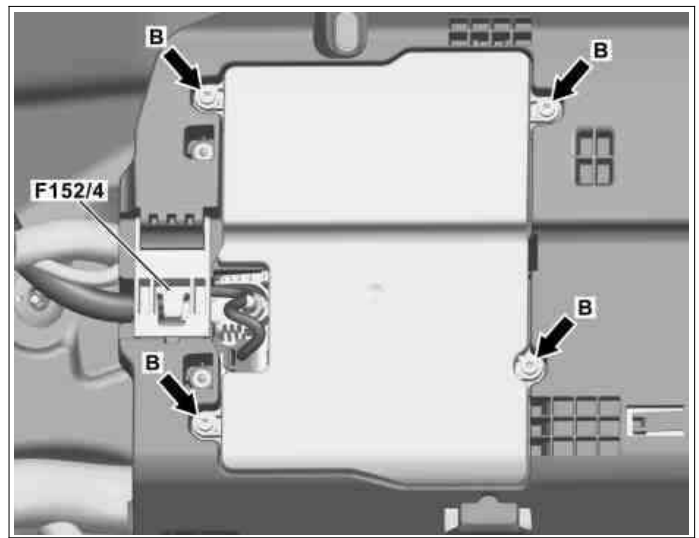
- 30 Connect brown line (BN) to right liftgate ground point (W8/5) .



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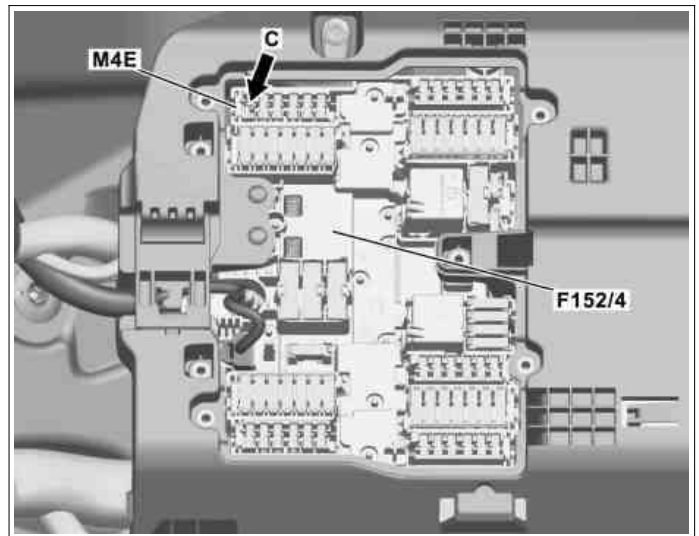


- 31 Release bolts (arrows B).
- 32 Remove cap from vehicle interior fuse and relay module (F152/4).



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- 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