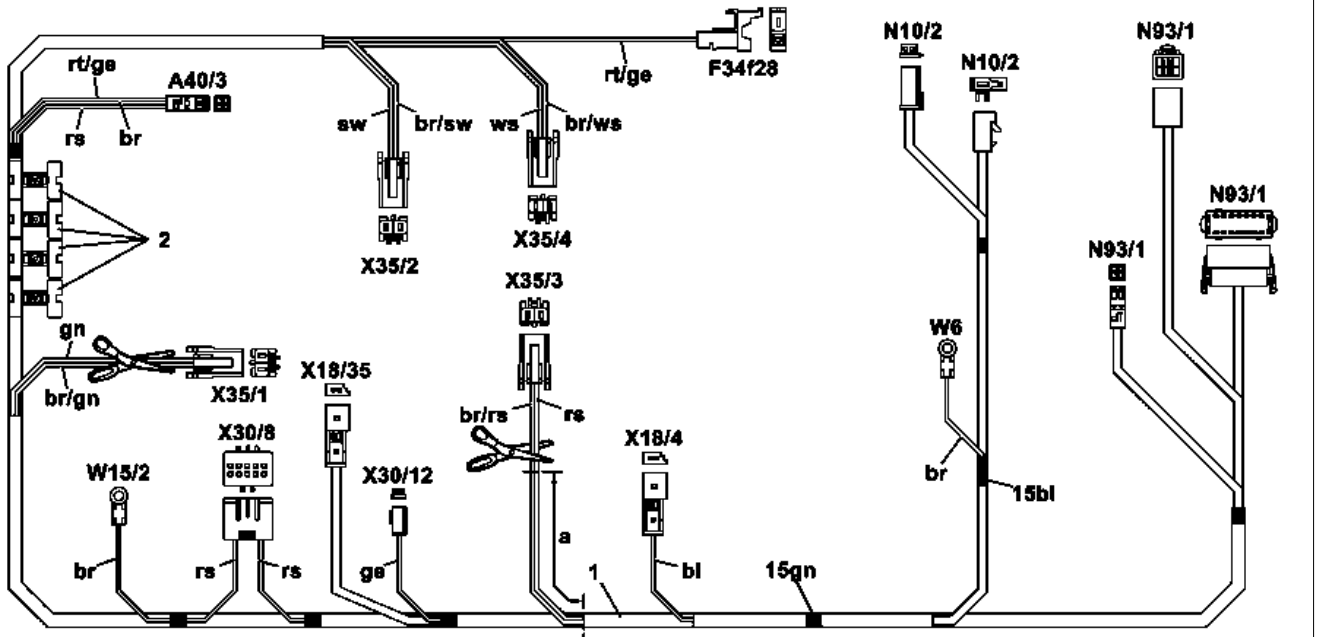


Actual status of auto pilot system wiring harness (1)

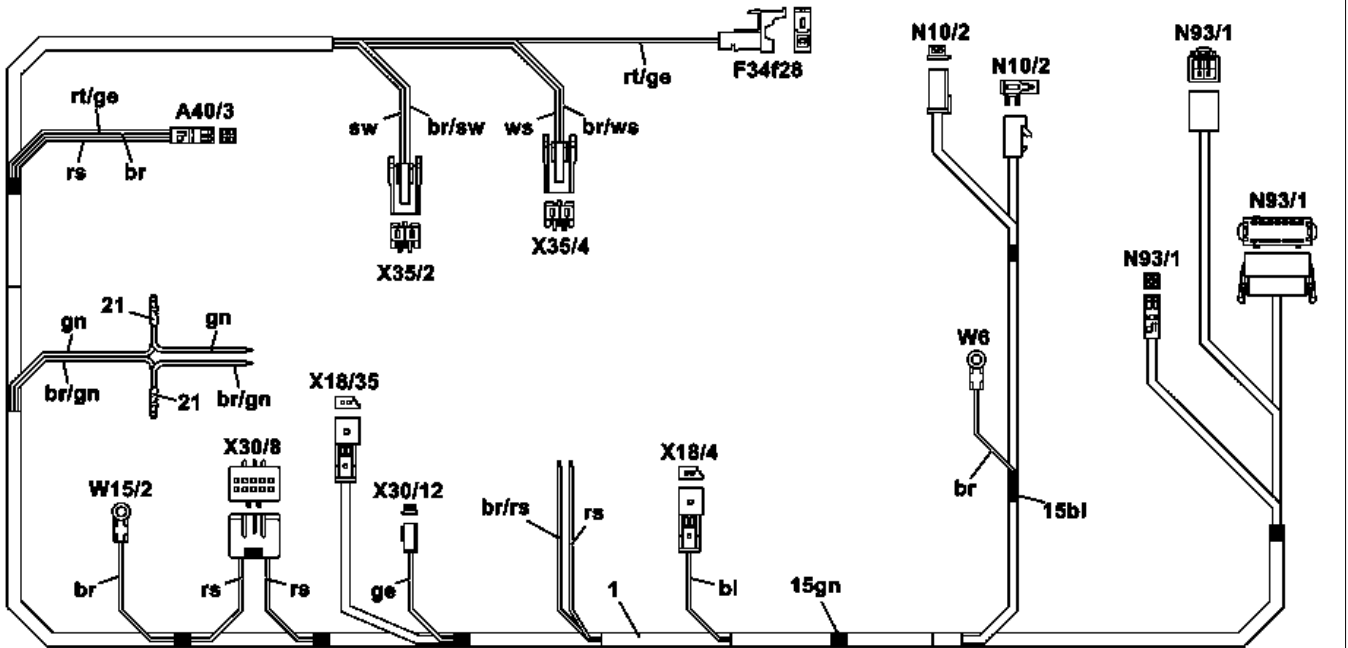


P82.61-3575-09

1	Wiring harness for auto pilot system	W15/2	Ground (left footwell)	a	600 mm
2	Wiring harness holder	X18/4	Interior/Sound System connector	bl	Blue line
15 bl	Blue color coding	X18/35	Cockpit wiring harness and FFS connector	br	Brown wire
15gn	Green color coding	X30/8	Wake-up signal connector	br/gn	Brown/green line
A40/3	COMAND operating, display and control unit	X30/12	Radio 'mute' plug distributor	br/rs	Brown/pink line
F34f28	Fuse 28	X35/1	Left front door separation point	br/sw	Brown/black line
N10/2	Rear SAM control unit with fuse and relay module	X35/2	Right front door separation point	br/ws	Brown/white line
N93/1	Audio gateway control unit	X35/3	Left rear door separation point	ge	Yellow line
W6	Ground (left wheelhouse in luggage compartment)	X35/4	Right rear door separation point	gn	Green line
				rs	Pink line
				rt/ge	Red/yellow line
				sw	Black wire
				ws	White line

- 1 Cut branch-off line with white, 2-pin coupling of left rear door separation point (X35/3) from auto pilot system wiring harness (1) as shown in the picture to dimension a=600 mm (no longer required).
- 2 Cut white, 2-pin coupling of left front door separation point (X35/1) from branch-off line (no longer required).
- 3 Use solder connectors to extend green (gn) and brown/green (br/gn) lines with an identically colored 200 mm long line, cross section 1.5 mm².
- 4 Remove wiring harness holders (2) from auto pilot system wiring harness (1) (no longer required).

Wiring harness specified status for auto pilot system (1)

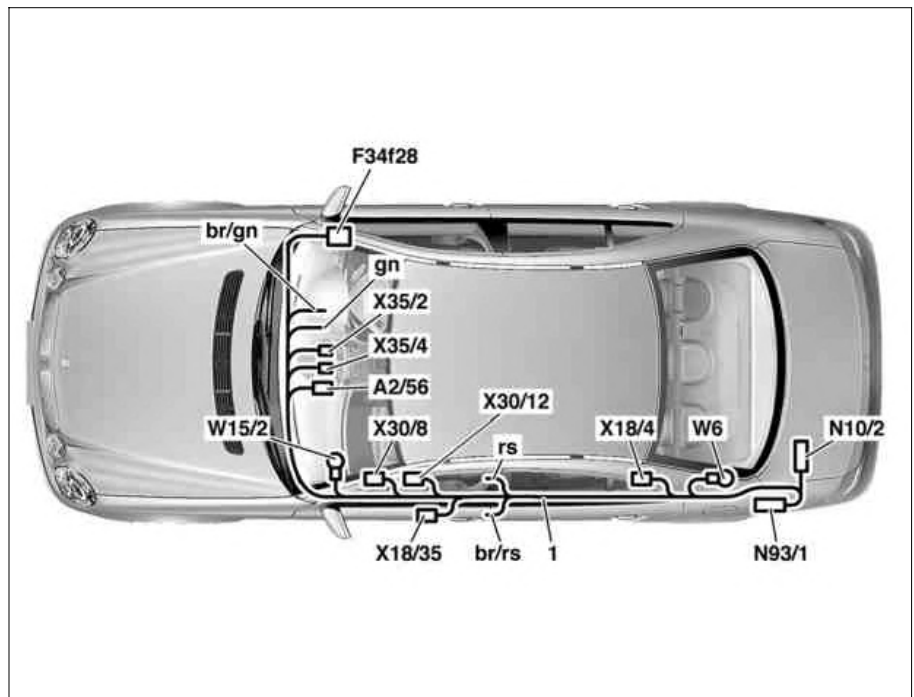


P82.61-3576-09

1	Wiring harness for auto pilot system	N93/1	Audio gateway control unit	bl	Blue line
15 bl	Blue color coding	W6	Ground (left wheelhouse in luggage compartment)	br	Brown wire
15gn	Green color coding	W15/2	Ground (left footwell)	br/gn	Brown/green line
21	Solder connector	X18/4	Interior/Sound System connector	br/rs	Brown/pink line
A40/3	COMAND operating, display and control unit	X18/35	Cockpit wiring harness and FFS connector	br/sw	Brown/black line
F34f28	Fuse 28	X30/8	Wake-up signal connector	br/ws	Brown/white line
N10/2	Rear SAM control unit with fuse and relay module	X30/12	Radio 'mute' plug distributor	ge	Yellow line
		X35/2	Right front door separation point	gn	Green line
		X35/4	Right rear door separation point	rs	Pink line
				rt/ge	Red/yellow line
				sw	Black wire
				ws	White line

Wiring harness routing diagram for auto pilot system (1)

A40/3	COMAND operating, display and control unit
F34f28	Fuse 28
N10/2	Rear SAM control unit with fuse and relay module
N93/1	Audio gateway control unit
W6	Ground (left wheelhouse in luggage compartment)
W15/2	Ground (left footwell)
X18/4	Interior/Sound System connector
X18/35	Cockpit wiring harness and FFS connector
X30/8	Wake-up signal connector
X30/12	Radio 'mute' plug distributor
X35/2	Right front door separation point
X35/4	Right rear door separation point
br/gn	Brown/green line
br/rs	Brown/pink line
gn	Green line
rs	Pink line



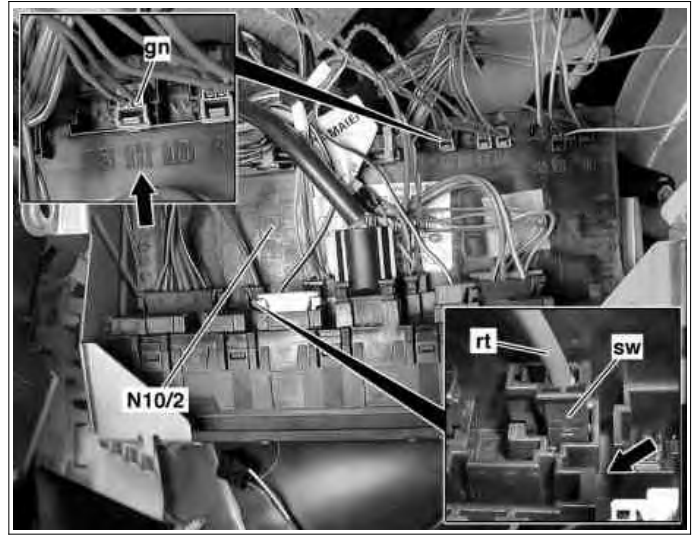
P82.86-4825-06

i The auto pilot system wiring harness (1) is routed forward starting from the left of the luggage compartment.

5 Connect the black, 1-pin coupling (sw) with the red line (rt) of the auto pilot system wiring harness to plug position 28 (see arrow in magnifying glass at bottom) on the rear SAM control unit with fuse and relay module (N10/2).

6 Connect green, 2-pin coupling (gn) with brown and brown/red line from the auto pilot system wiring harness to plug position 11 (see arrow in magnifying glass at top) on the rear SAM control unit with fuse and relay module (N10/2).

i Plug position 11 is marked in green.

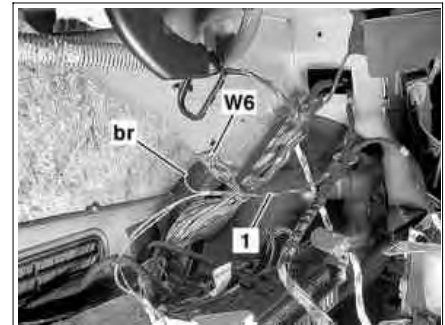


P82.61-2836-11

7 Connect brown (br) branch-off line from the auto pilot system wiring harness (1) to ground (left wheelhouse in luggage compartment) (W6).

8 Route auto pilot system wiring harness (1) along on-board wiring harnesses into the left rear footwell and attach to the on-board wiring harnesses.

i The blue and green color codings on the auto pilot system wiring harness (1) must line up with the identically colored markings on the on-board wiring harnesses.



P82.61-2883-01

9 Fasten auto pilot system wiring harness (1) as shown in the picture onto left wheelhouse and to on-board wiring harnesses.



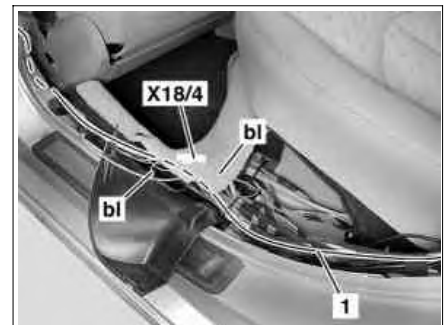
P82.61-2882-01

10 Expose and separate the standard, white, 2-pin interior/sound system connector (X18/4) with blue (bl) line in the left rear cable duct.

11 Connect the white, 2-pin plug from the auto pilot system wiring harness (1) with the standard installed, 2-pin coupling and route into the left rear cable duct.

i The standard installed, 2-pin plug connector is no longer required and strapped down in the cable duct.

12 Route auto pilot system wiring harness (1) further forward in the cable duct.



P82.61-2837-01

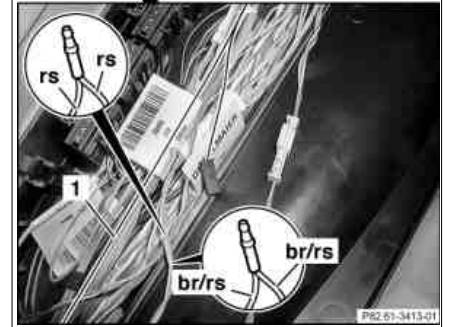
13 Expose and separate pink (rs) and brown/pink (br/rs) lines of standard installed wiring harness, which is routed through the B-pillar to the left rear door as shown in the picture.

i The lines have a cross section of 1.5 mm² and are twisted with each other. It must be ensured that the wiring harness which is routed through the B-pillar to the left rear door is separated.

14 Use a solder connector to connect the pink line (rs) of the standard installed wiring harness, which is routed through the B-pillar to the left rear door, with the pink line (rs) from the auto pilot system wiring harness (1).

15 Use a solder connector to connect the brown/pink line (br/rs) of the standard installed wiring harness, which is routed through the B-pillar to the left rear door, with the brown/pink line (br/rs) from the auto pilot system wiring harness (1).

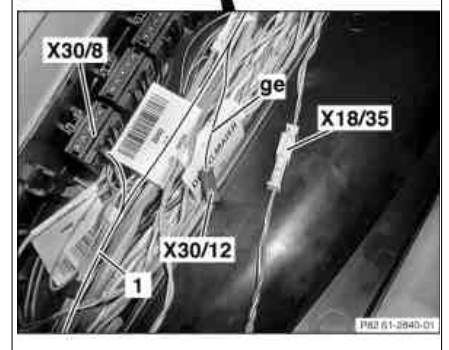
16 Use felt tape to insulate the pink line (rs) and brown/pink line (br/rs) of the standard installed wiring harness, which is routed to the front, and route into the cable duct.



P82.61-3563-03

17 Detach both pink lines of black, 10-pin wake-up signal connector (X30/8) from auto pilot system wiring harness (1) and install into one of the chambers of the standard installed black, 10-pin wake-up signal connector (X30/8).

i If there is **no** black, 10-pin wake-up signal connector (X30/8) installed in the cable duct, fasten the black, 10-pin wake-up signal connector (X30/8) from the auto pilot system wiring harness (1) in the given bracket in the cable duct.



P82.61-3564-03

18.1 Vehicles without code (272) Telephone preinstallation (non-networked) incl. telephone antenna or code (273) Portable CTEL preinstallation (non-networked), VDA wiring

Strap down violet, 2-pin radio 'mute' plug distributor (X30/12) from the auto pilot system wiring harness (1) in the cable duct (no longer required)

18.2 Vehicles with code (272) Telephone preinstallation (non-networked) incl. telephone antenna or code (273) Portable CTEL preinstallation (non-networked), VDA wiring

- Expose and separate radio 'mute' plug distributor (X30/12) in left front cable duct.
- Strap down plug of standard installed radio 'mute' plug distributor (X30/12) in the cable duct (no longer required).

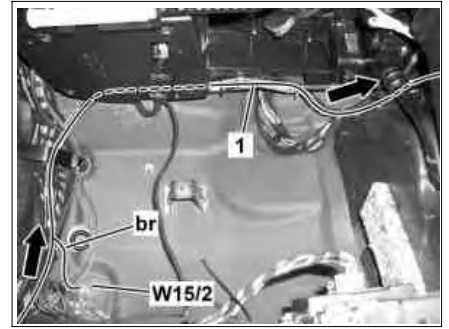
- Connect plug of radio 'mute' plug distributor (X30/12) from auto pilot system wiring harness (1) with standard installed coupling of radio 'mute' plug distributor (X30/12) and place into cable duct.

19 Expose and detach white, 2-pin cockpit wiring harness and FFS connector (X18/35) in the cable duct.

i The white, 2-pin coupling is no longer required and is strapped down in the cable duct.

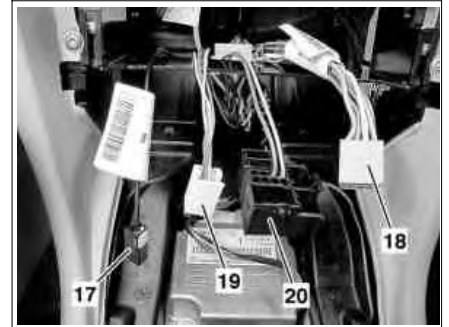
20 Connect the white, 2-pin coupling of the auto pilot system wiring harness (1) with the white, 2-pin plug to the cockpit wiring harness and FFS connector (X18/35) and place into cable duct.

- 21 Connect brown line from auto pilot system wiring harness (1) to ground (left footwell) (W15/2).
- 22 Route the auto pilot system wiring harness (1) as shown in the picture in the center console and attach to the on-board wiring harnesses.



P82.61-3565-01

- 23 Wrap felt tape around the antenna line (17) and strap down (no longer required).
- 24 Remove brown, 8-pin coupling (18) from black coupling carrier (20).
- 25 Wrap felt tape around the black coupling carrier (20) and the white, 8-pin coupling (19) then strap down (no longer required).

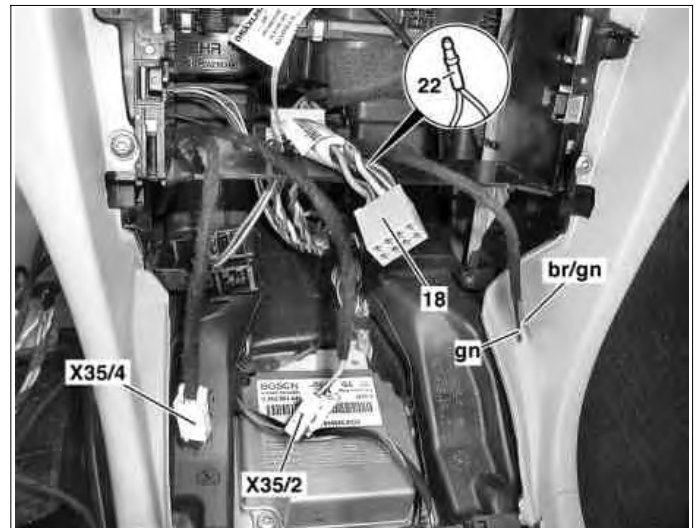


P82.61-2847-01

- 26 Route the two white, 2-pin couplings of the right front door separation point (X35/2) and right rear door separation point (X35/4) as shown in the picture into the radio recess and shorten excess length.

i Couplings are no longer required.

- 27 Route the branch-off line with the two extended green (gn) and brown/green (br/gn) lines as shown in the picture into the radio recess.
- 28 Use solder connector (22) to connect the white and brown/white lines of the right rear door separation point (X35/4) with the identically colored lines of the brown, 8-pin coupling (18).
- 29 Use solder connector (22) to connect the black and brown/black lines of the right front door separation point (X35/2) with the identically colored lines of the brown, 8-pin coupling (18).




P82.61-2849-11

- 30 Use solder connector (22) to connect the extended green (gn) and brown/green (br/gn) lines with the identically colored lines of the brown, 8-pin coupling (18).
- 31 Wrap felt tape around brown, 8-pin coupling (18) with the solder connectors (22) and strap down in the radio recess.

32 Route red/yellow line (rt/ge) with Bordeaux red fuse carrier of auto pilot system wiring harness as shown in the picture from center console under the right of the instrument panel and fasten using felt tape (3) on the air duct.

33 Route red/yellow line (rt/ge) with Bordeaux red fuse carrier of auto pilot system wiring harness as shown in the picture over the strut (4) above the steering column along the on-board wiring harness to the interior fuse box (F34) and fasten in place.


 It must be ensured that the red/yellow line (rt/ge) is routed and fastened over the strut (4) above the steering column along the on-board wiring harness such that it cannot come into contact with moving parts of the steering column!



P82.61-3577-06

34 Remove the given Bordeaux red fuse carrier for fuse 28 (F34f28) with its 15 amp fuse, from the interior fuse box (F34), wrap in felt tape (5) and strap down behind the interior fuse box (F34) on the on-board wiring harnesses (no longer required).

35 Install Bordeaux red fuse carrier with red/yellow line from auto pilot system wiring harness in plug position 28 of the interior fuse box (F34) and fit with a **five amp** fuse.

 Plug position 28 is color coded.