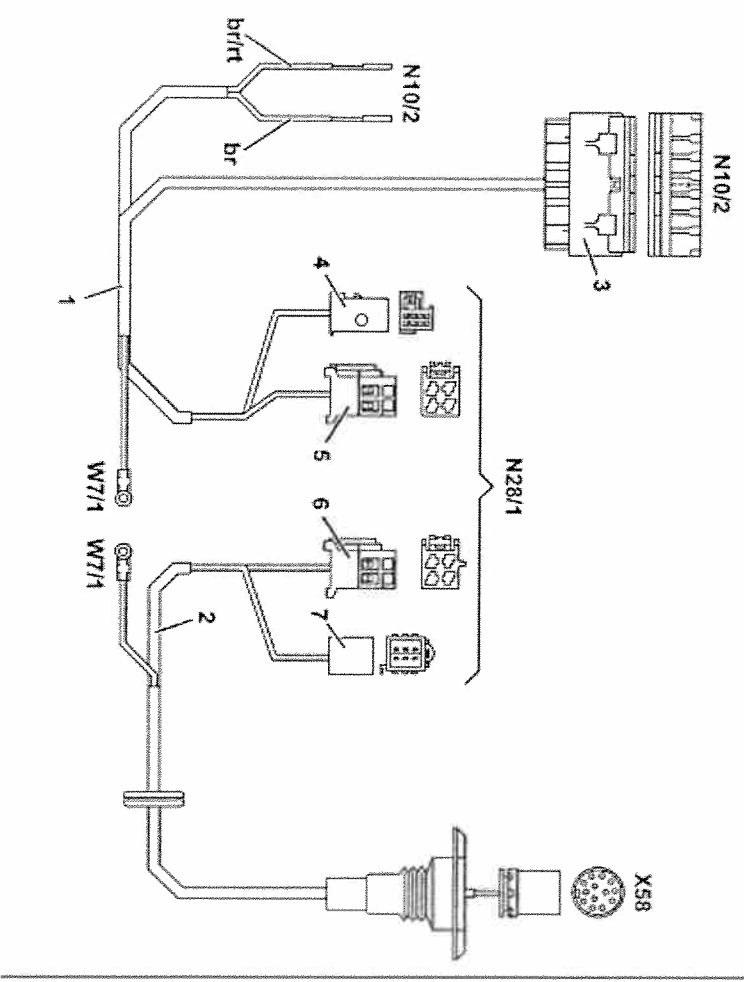


AN31.19-P-8100-05CY	Retrofitting trailer coupling wiring harness		
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**Connection scheme**

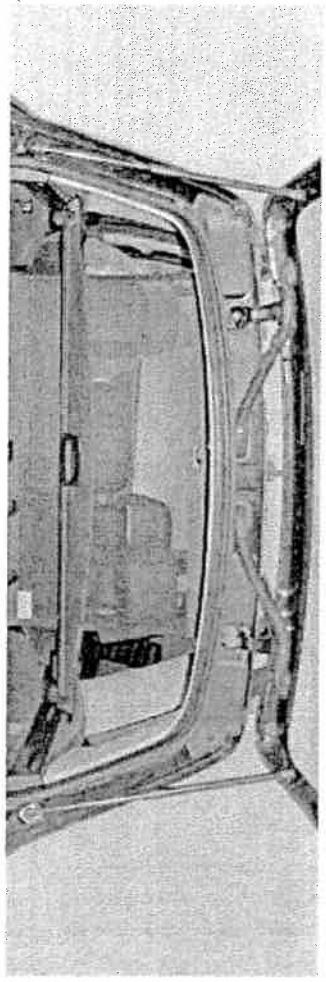
- 1 Control unit wiring harness
- 2 Trailer coupling wiring harness
- 3 Blue fuse carrier
- 4 Black, 8-pin coupling
- 5 Black, 4-pin coupling
- 6 White, 4-pin coupling
- 7 Black, 6-pin coupling

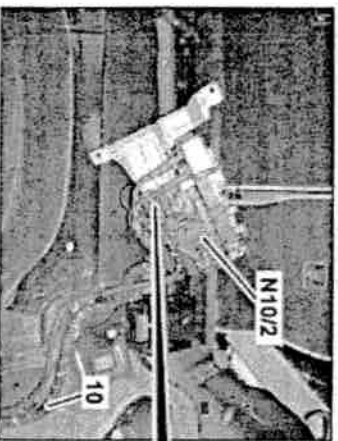
- N10/2 Rear SAM control unit with fuse and relay module
- N28/1 Trailer recognition control unit
- W7/1 Right taillamp trunk ground point
- X58 Trailer socket
- br Brown Controller Area Network (data bus/CAN bus) (CAN) line
- br/t Brown/red CAN line



P31.19-2401-06

- Routing diagram**
- 1 Control unit wiring harness
  - 2 Trailer coupling wiring harness
- N10/2 Rear SAM control unit with fuse and relay module
  - N28/1 Trailer recognition control unit
  - W7/1 Right taillamp trunk ground point
  - X58 Trailer socket





1 Remove blue 28-pin coupling (8) from rear SAM control unit with fuse and relay module (N10/2).

2 Remove plug (9) from blue 28-pin coupling (8).

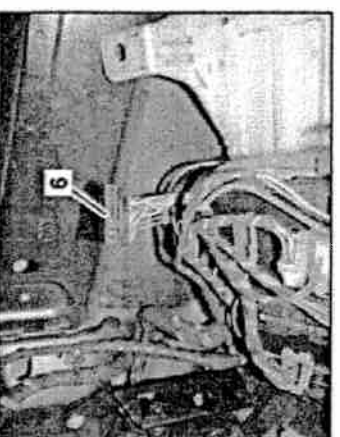
3 Pin brown CAN line from control unit wiring harness into slot 9 of the plug (9).

4 Pin brown/red CAN line from control unit wiring harness into slot 10 of the plug (9).



5 Install plug (9) into blue 28-pin coupling (8) and connect blue 28-pin coupling (8) to slot 5H (arrow A) of the rear SAM control unit with fuse and relay module (N10/2).

6 Route control unit wiring harness from rear SAM control unit with fuse and relay module (N10/2) along vehicle wiring harness (10) to right backup lamp and fix in place with cable ties.



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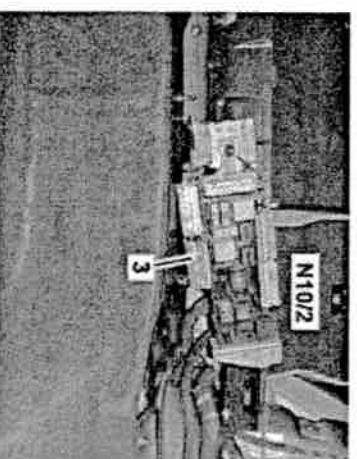
P31.19-2402-06

7 Check fuse assignment of blue fuse carrier (3).

**i** Assignment diagram:

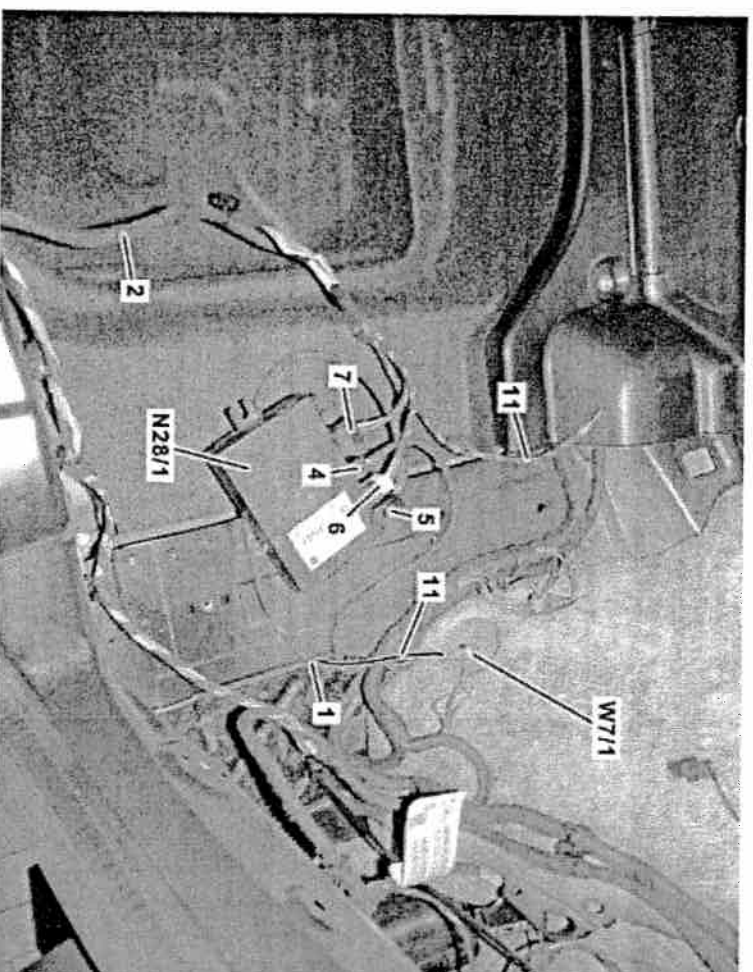
- Assignment 1 30 amp(s)
- Assignment 2 20 amp(s)
- Assignment 3 15 amp(s)
- Assignment 4 Not used
- Assignment 5 15 amp(s) (serves as bridge)
- Assignment 6 15 amp(s) (serves as bridge)
- Assignment 7 Not used

8 Plug the blue fuse carrier (3) into the slot with blue markings of the rear SAM control unit with fuse and relay module (N10/2).



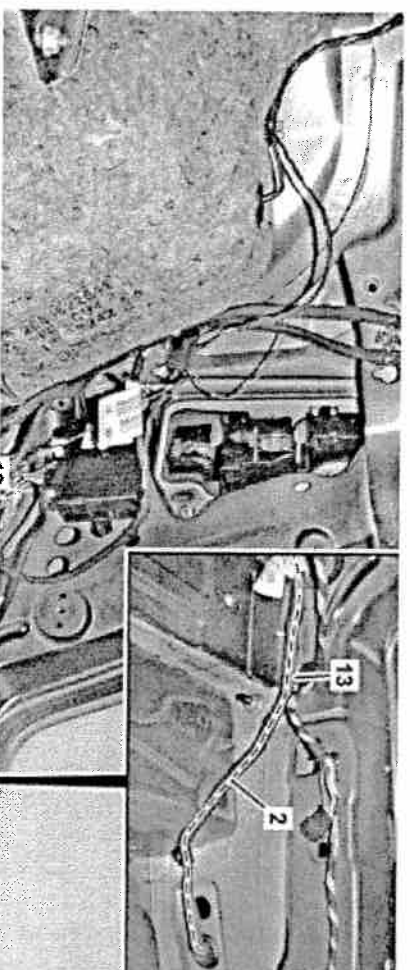
P31.19-2404-01

- 9 Connect brown ground lines (11) of control unit wiring harness (1) and trailer hitch wiring harness (2) to right taillight trunk ground point (W7/1).
- 10 Connect black 8-pin coupling (4) and black 4-pin coupling (5) of control unit wiring harness (1) to trailer recognition control unit (N28/1).
- 11 Connect white 4-pin coupling (6) and black 6-pin coupling (7) of trailer hitch wiring harness (2) to trailer recognition control unit (N28/1).



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- 12 Route control unit wiring harness along broken line on vehicle wiring harness (10), loop any excess lengths and fix in place with cable ties (12).
- 13 Route trailer hitch wiring harness (2) along broken line on rear center section and fix in place with retaining clip (13).
- 14 Loop any excess lengths of trailer hitch wiring harness (2) and fix in place with cable ties.



P31.19-2406-06