



Mercedes-Benz

service information

TO: OUR MERCEDES-BENZ PASSENGER CAR DEALERS

DATE: November 1991 (supercedes MBNA 54/12, October 1986) **REF. NO.** MBNA 54/35

Revision: This Service Information contains information relevant to new models.

SUBJECT: **ALL MODELS**
INSTALLATION OF AFTERMARKET ELECTRICAL ACCESSORIES

To help prevent damage to existing components or wiring harnesses during the installation of aftermarket electrical accessories (such as cellular telephones, radio transmitters of any type, or custom audio systems) the following recommendations should be considered.

It is strongly recommended that any outside firms doing electrical accessory installation work on any Mercedes-Benz vehicle be advised of these important guidelines.

1. **Never** splice into existing vehicle wiring harnesses in order to gain access to power, illumination or ground circuits. This is especially important for safety related systems such as SRS, ABS, etc.

Devices with current requirements of 5 amperes or more should be connected either to the main power distribution terminal block X4/10 (circuit 30) in the engine compartment or directly to the battery. A proper size in-line fuse must be installed as near as possible to the connection point.

Devices with current requirements of less than 5 amperes should be connected to the connector block for accessory equipment (X30).

In model 126 vehicles **without** heated seats, the connector block (X30) must be installed prior to accessory installation by referring to the attached Work Instructions no. 265.

2. Always check behind trim panels for the presence of wiring, hydraulic or electronic devices before drilling holes for the mounting of accessories. This is especially important near the right and left sides of the center console, the driver's and passenger's foot panel and kick panels, and the rear storage compartment area of model 129.
3. The fuel tank is located between the rear seat (partition panel in model 129) and the trunk. **Never drill or install fasteners in this area without first removing body panels for visual inspection.** Never mount components to the partition panel by using sheet metal screws, which may protrude through the panel and contact the fuel tank during normal driving or in the event of a collision. Scratching the fuel tank paint may result in corrosion and eventually a fuel leak.
4. When wires are routed through metal panels, always use the existing body wiring grommets and seal any openings cut into the grommet.

5. **Never** wrap wires around fuse holder spring contacts to obtain power for accessories which require "switched" power (circuit 15). Power from the output of the ignition switch can be obtained from the cigar lighter (less than 2 amperes), the connector block for accessory equipment X30 (less than 5 amperes), or the terminals on the underside of the fuse box.
6. When installing a radio transmitter of any type (including cellular telephone, citizen's band or amateur radio equipment), be sure to use only high quality coaxial antenna cable and connectors. Keep the antenna cable as short as possible, and route it away from existing wiring and components. The antenna system must be properly grounded and adjusted for minimum VSWR. Avoid locating the antenna near existing electronic components. The preferred antenna location for high power (> 20 watts) transmitters is the center of the trunk lid, or the center of the roof for magnetic-mount types.
7. Always solder all connections. Splices and terminals cannot be properly crimped in the field without special tools.

Power should be obtained as described below. Always use a proper size fuse for any installation.

Ground should be obtained at the nearest chassis ground point. Consult the Electrical Troubleshooting Manual for ground locations.

Component locations

Model 124

Power connector X4/10 (circuit 30) is located in the engine compartment just forward of the battery (Figure 1).

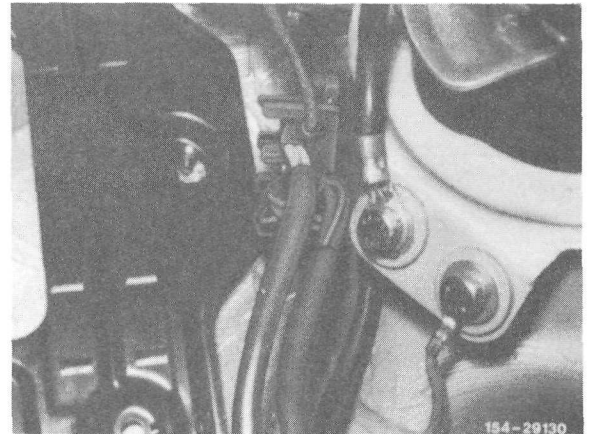


Figure 1 X4/10, model 124

Connector block X30 is located under the driver's left kick panel (Figure 2).

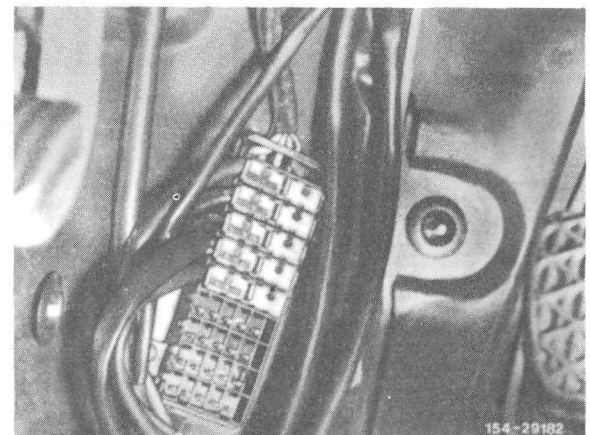


Figure 2 X30, model 124

Model 126

Power connector X4/10 (circuit 30) is located in the engine compartment just forward of the battery (Figure 3).

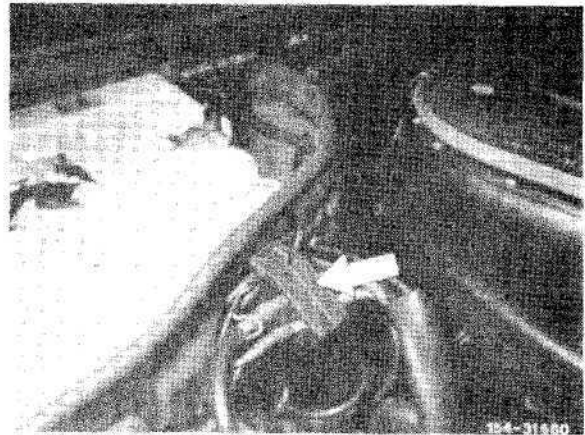


Figure 3 X4/10, model 126

Connector block X30 is located under the driver's left kick panel (Figure 4). In vehicles without heated seats, install X30 according to Work Instructions no. 265.

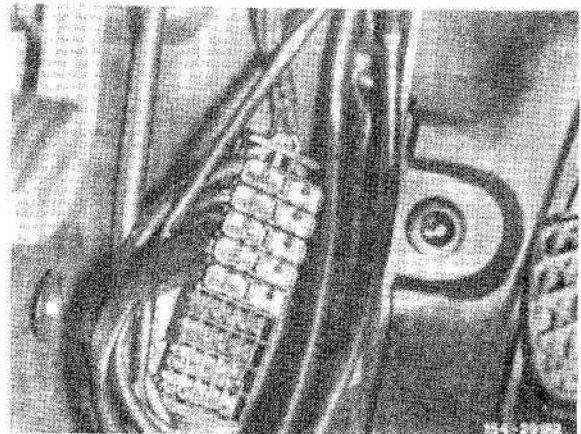


Figure 4 X30, model 126

Model 129

Power connector X4/10 (circuit 30) is located in the engine compartment on the passenger-side firewall (Figure 5), but is also accessible from the passenger's footwell. The battery is located in the right side of the trunk. Connector block X30 is located under the driver's left kick panel (Figure 6).

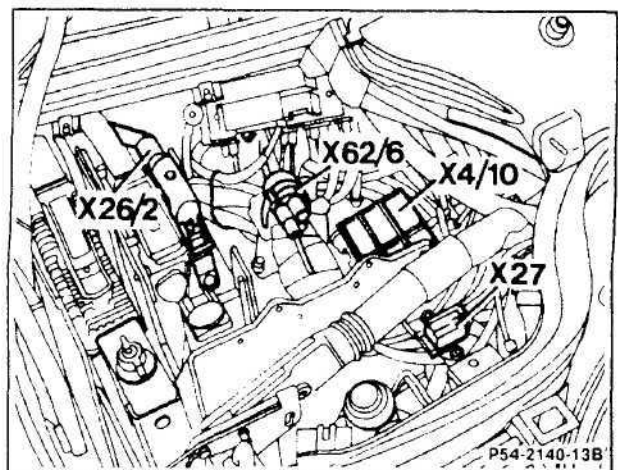


Figure 5 X4/10, model 129

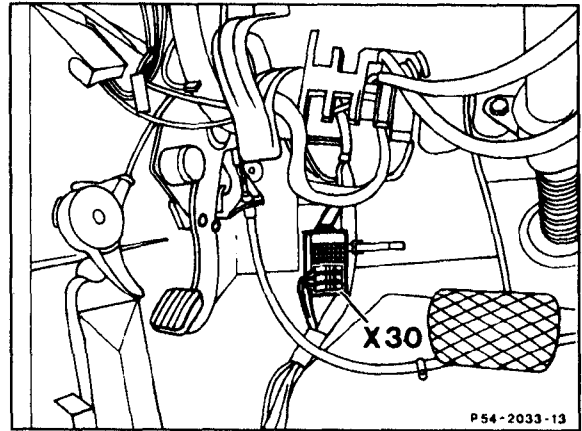


Figure 6 X30, model 129

Model 140

Power connector X4/10 is located in the engine compartment on the passenger-side firewall (Figure 7), but is also accessible from the passenger's footwell (Figure 8). The battery is located in the right side of the trunk. There is no connector block for accessories.

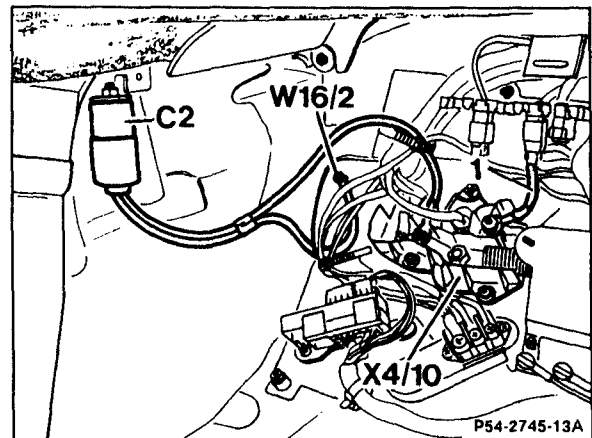


Figure 7 X4/10, model 140

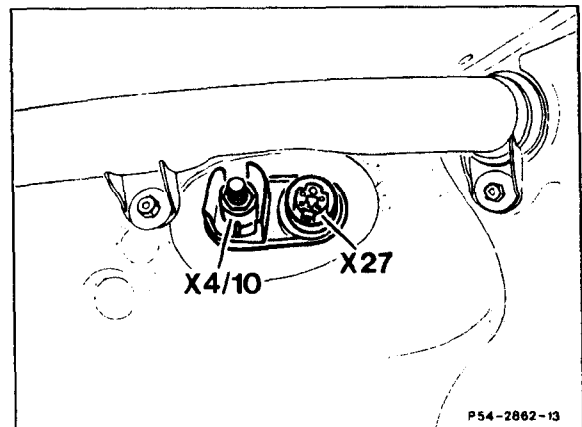


Figure 8 X4/10, model 140

Model 201

Power connector X4/10 is located in the engine compartment on the right shock absorber tower (Figure 9).

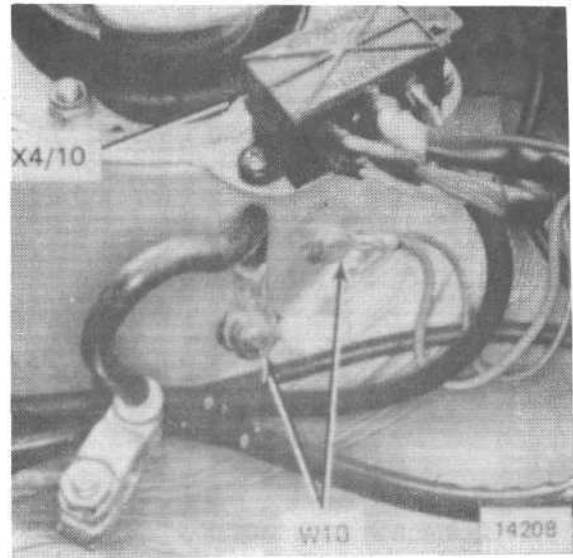


Figure 9 X4/10, model 201

Connector block X5/1 (circuits 30 and 15 only) is located behind the driver's left kick panel (Figure 10).

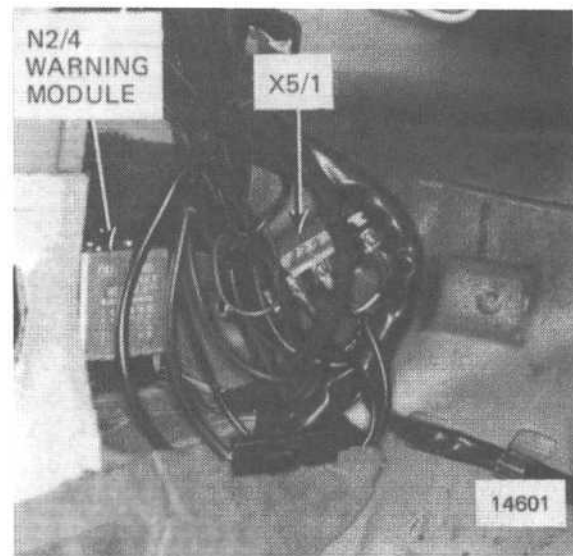


Figure 10 X5/1, model 201

Circuit 58d (100 mA maximum) is available at connector X6, located behind the dashboard to the right of the glove compartment (Figure 11).

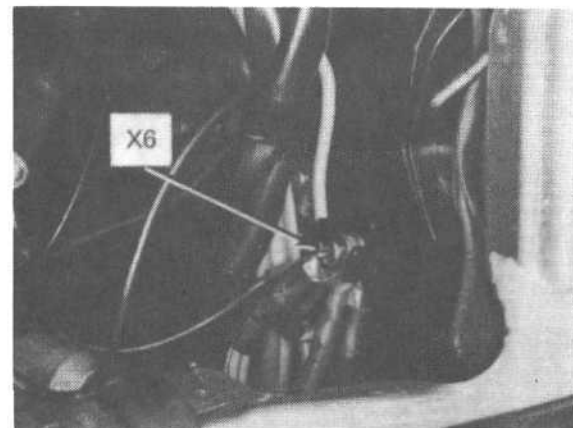


Figure 11 X6, model 201

Connector block (X30) terminal layout

Position	Circuit	Wire color
1	30 (<i>Hot</i> at all times)	Red ¹⁾
2	15 (<i>Hot</i> in Run or Start)	Black ¹⁾
3	31 (Ground)	Brown
4	58d (Variable illumination)	Grey/blue
5	15R (<i>Hot</i> in Accessory, Run or Start)	Black ¹⁾

¹⁾ Wire may have color tracer stripe

Connection to connector block X30 (models 124, 126, 129) is accomplished via a connector made from parts listed in the Parts Information table below.

Parts Information

Part Name	Part Number
Connector plug housing	013 545 32 28
2.5 mm female socket (up to 5 per connector)	002 545 99 26