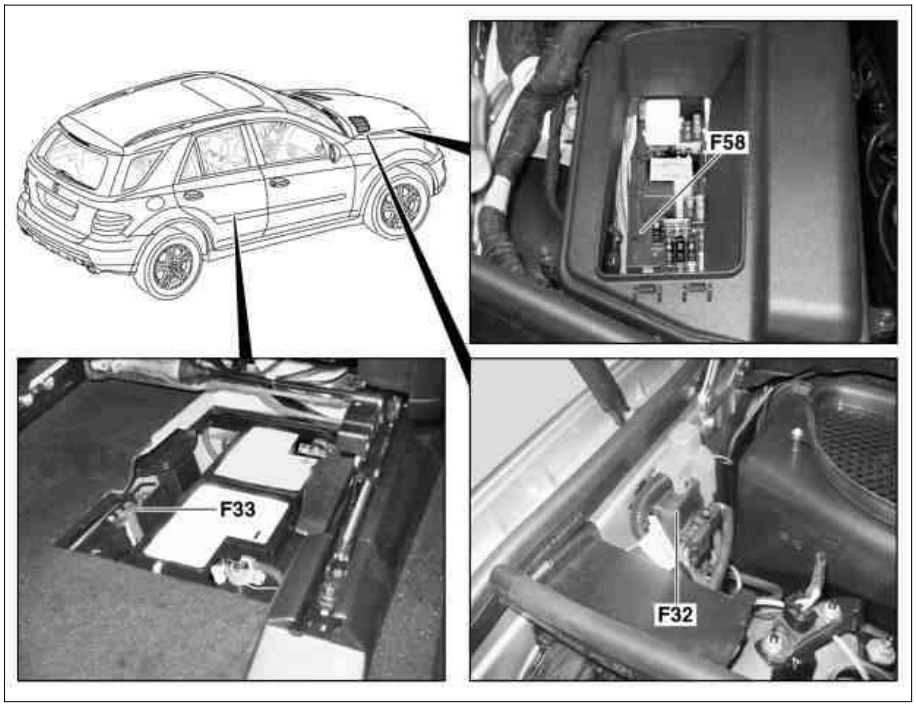
AR54.10-P-1030-09GZ	Locate defective consumers via power supply		

Commercially available tools

Number	Designation
WH58.30-Z-1001-09A	Multimeter
WH58.30-Z-1013-09A	Current clamp with display and multimeter connection for quiescent current measurement
WH58.30-Z-1014-09A	Current clamp with multimeter connection for quiescent current measurement
WH58.30-Z-1015-09A	Current clamp with display for quiescent current measurement
WH58.30-Z-1016-09A	Clamp-on probe

Shown on model 164.1

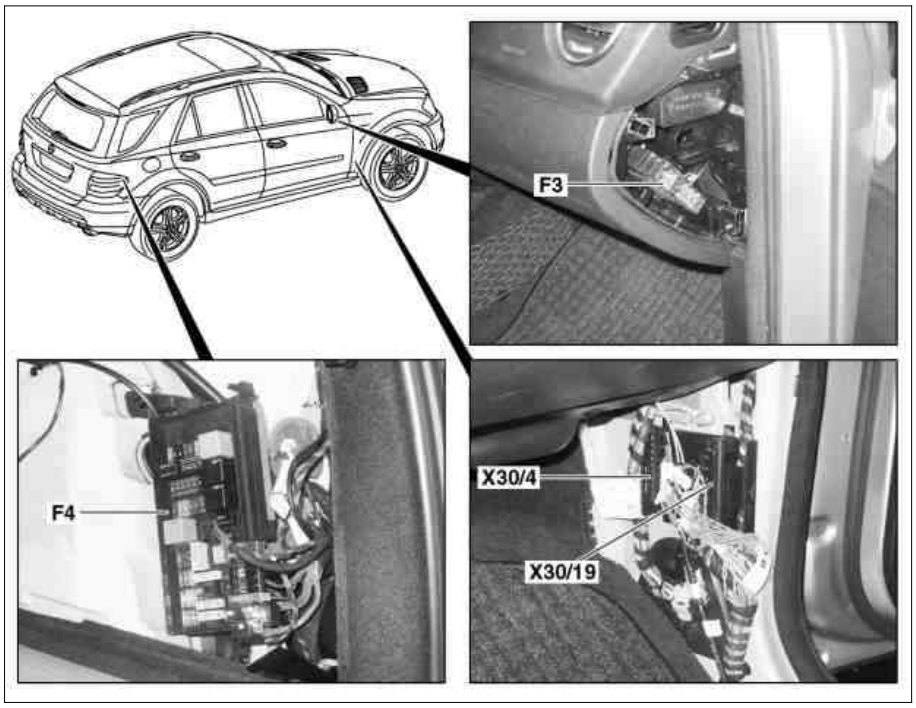
F32 Front prefuse
F33 Battery compartment prefuse box
F58 Engine compartment fuse and relay box



P54.10-2542-06

Shown on model 164.1

F3 Cockpit fuse box
F4 Load compartment fuse and relay box



P54.10-2543-06

1.1 When measuring with multimeter:
Measure voltage drop directly at fuses in front prefuse box (F32) and in battery compartment prefuse box (F33).
Use measuring tips.
Perform measurements with fuses still inserted - defective consumer cannot be identified if fuse is removed.

2.1 If increased quiescent current consumption has been detected at a consumer which is directly connected to one of the prefuse boxes:
See step 3.

2.2 If increased quiescent current consumption has been detected

i Increased quiescent current consumption exists at a consumer if the voltage drop exceeds 100 mV.

1.2 When measuring with current clamp:
Measure quiescent current at terminals 30 in front prefuse box (F32) and in battery compartment prefuse box (F33).
i Perform measurements with fuses still inserted - defective consumer cannot be identified if fuse is removed.

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i Use measuring tips.
i Perform measurements with fuses still inserted - defective consumer cannot be identified if fuse is removed.
i Increased quiescent current consumption exists at a consumer if the voltage drop exceeds 100 mV.

in the engine compartment fuse and relay box (F58), the load compartment fuse and relay box (F4) or the cockpit fuse box (F3):

Measure voltage drop at fuses in engine compartment fuse and relay box (F58), cockpit fuse box (F3) or load compartment fuse and relay box (F4) using multimeter, depending at which prefuse a voltage drop greater than
100 mV has been detected or a quiescent current consumption between 0.05 and 1.6 A has been detected. See also wiring plan information in main document.

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3 Remove fuse of consumer identified as being defective and check whether quiescent current consumption drops below 0.05 A. If this is the case, defective consumer has been located. If this is not the case, repeat defective consumer search.