

"Starting aid" repair notes - Jump starting using jumper cables

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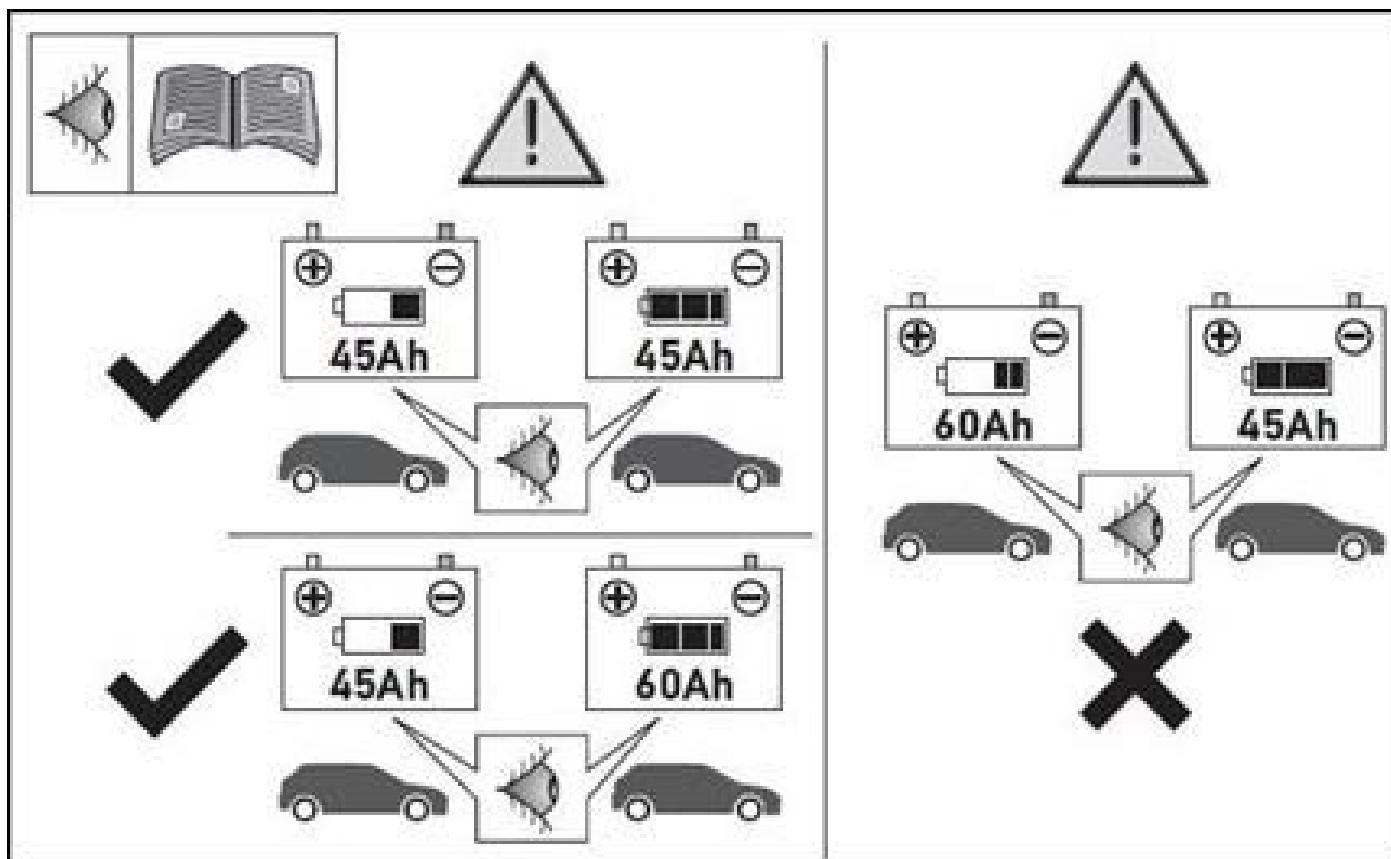
Jump starting using jumper cables

If the starting speed of a motor vehicle is not sufficient to start the engine due to a weak battery, the vehicle can be started externally using an external battery and jumper cables. In the majority of cases, the procedure # also known as "bypassing" # is performed with a second vehicle and jumper cables.

If no nearby breakdown service is available, the following should be observed when starting a vehicle with jumper cables:

- To avoid damage to the vehicle electrical system, only use suitable jumper cables with sufficient wire cross section
- Carefully read the operating instructions for the jumper cables and the vehicles # including the safety notices # before jump starting
- The batteries of both vehicles should have the same rated voltage
- If the starting aid is to be used in conjunction with another vehicle, please make sure that there is no contact between the bodywork of the two vehicles

The current-supplying battery should be adequately charged and have a capacity (Ah) that is identical to or greater than that of the dead battery



Safety notice!

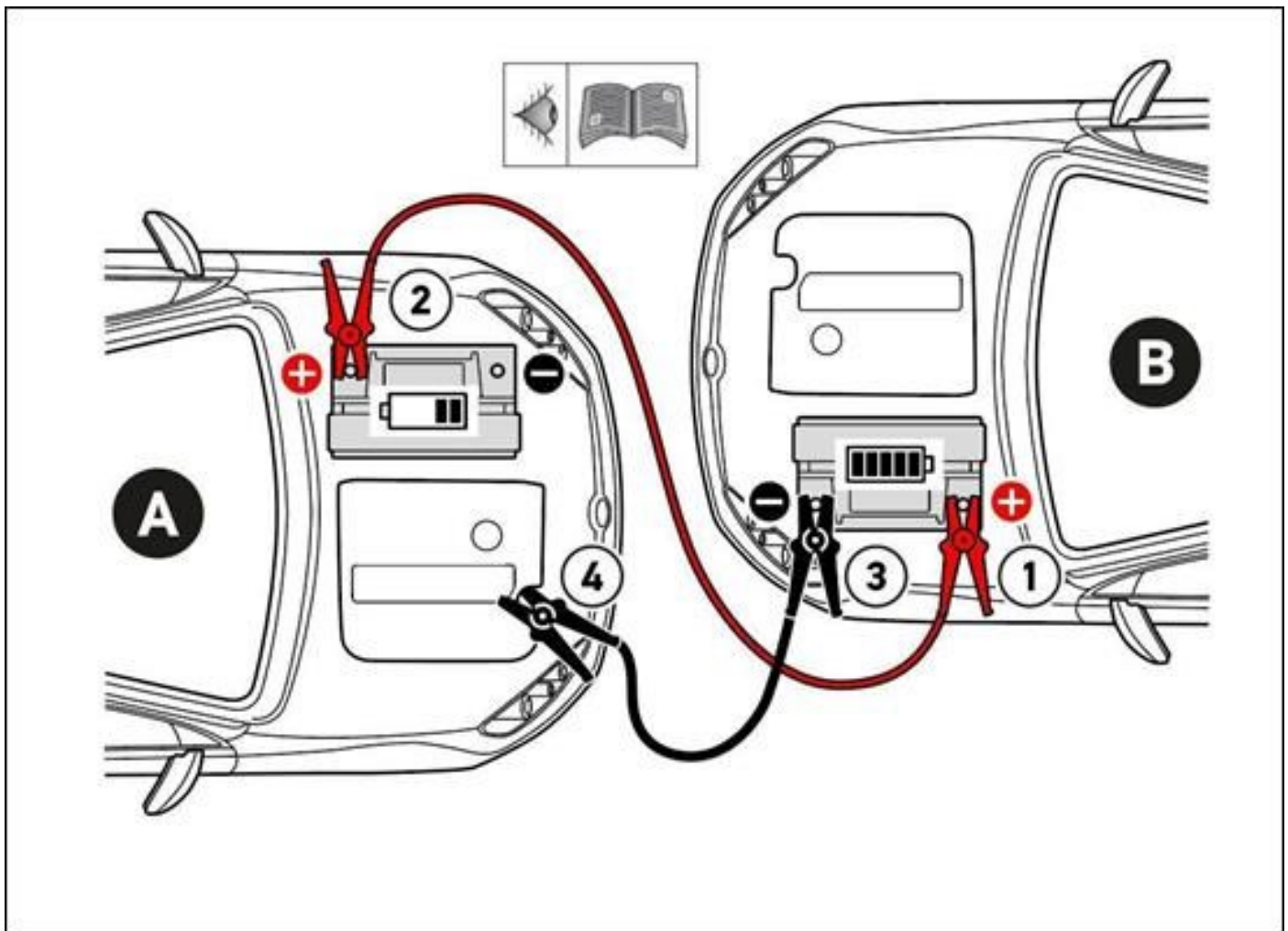
- To prevent any kind of material damage or personal injury, no starting aid should be used if batteries are frozen, damaged or leaking!
- Do not jump start in environments where there is a risk of explosion!
- There is a risk of fire, deflagration, corrosion and explosion if the jumper cables are used improperly on the vehicle!

Preparing to use the starting aid

- Vehicles must be secured to prevent unintentional rolling away
- With automatic transmissions, engage the gear position "P" and pull on the parking brake
- With manual transmissions, keep the gear lever in the neutral position and pull on the parking brake
- Before commencing work with the starting aid, switch off all current consumers such as the radio, ventilation/air-con and the "ignition" on both vehicles

Connecting the jumper cables

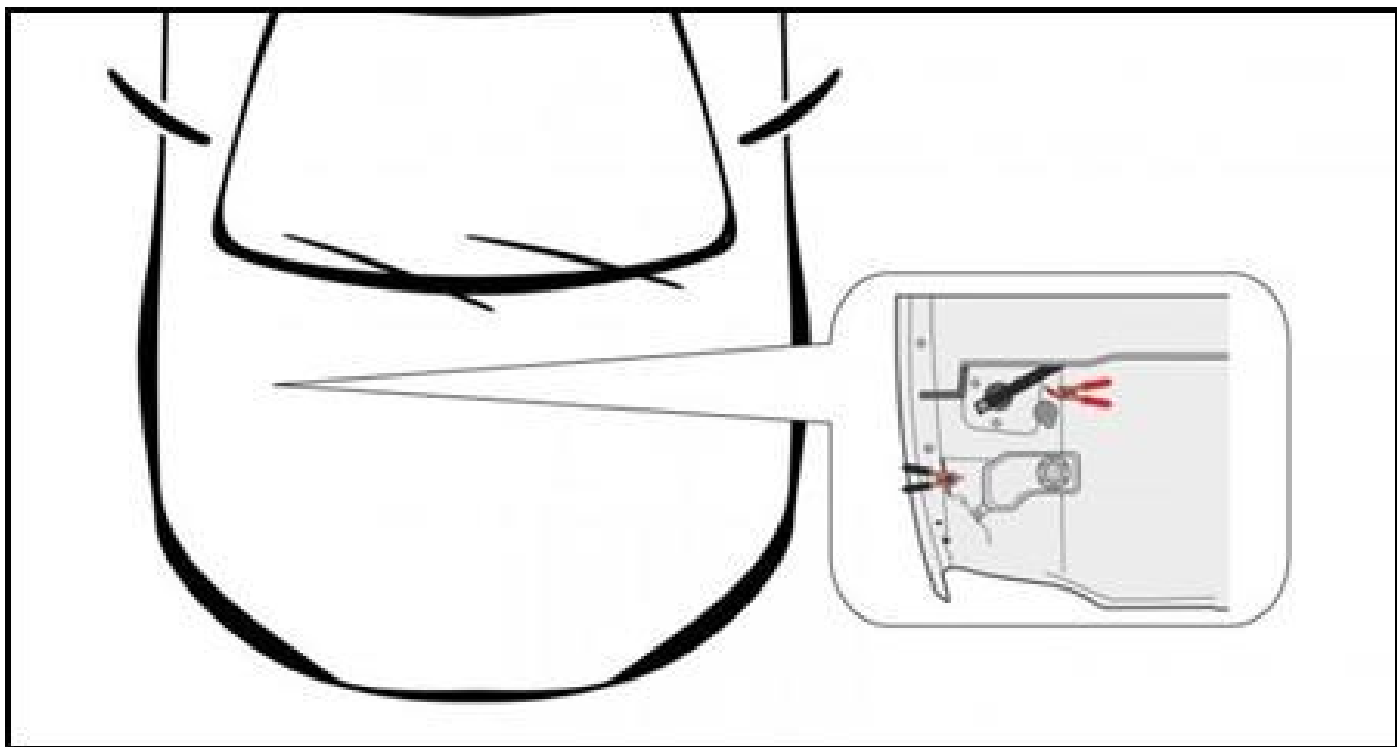
In this context, it is important to always carefully observe information on the subject of "Starting Aid" in the operating instructions for each vehicle!



A = vehicle with dead battery/B = vehicle with current-supplying battery

Important notes!

- The black cable must not be connected to the minus pole of the dead battery in the vehicle receiving the charge. Exercise caution with gas-generating batteries # there is a risk of explosion!
- In the case of vehicles with battery management systems, the starting aid has to be used in conjunction with the jumpstart connection points in the engine compartment. If the starting aid is used directly on the battery poles, damage can be done to the electrical system or to the battery sensor.

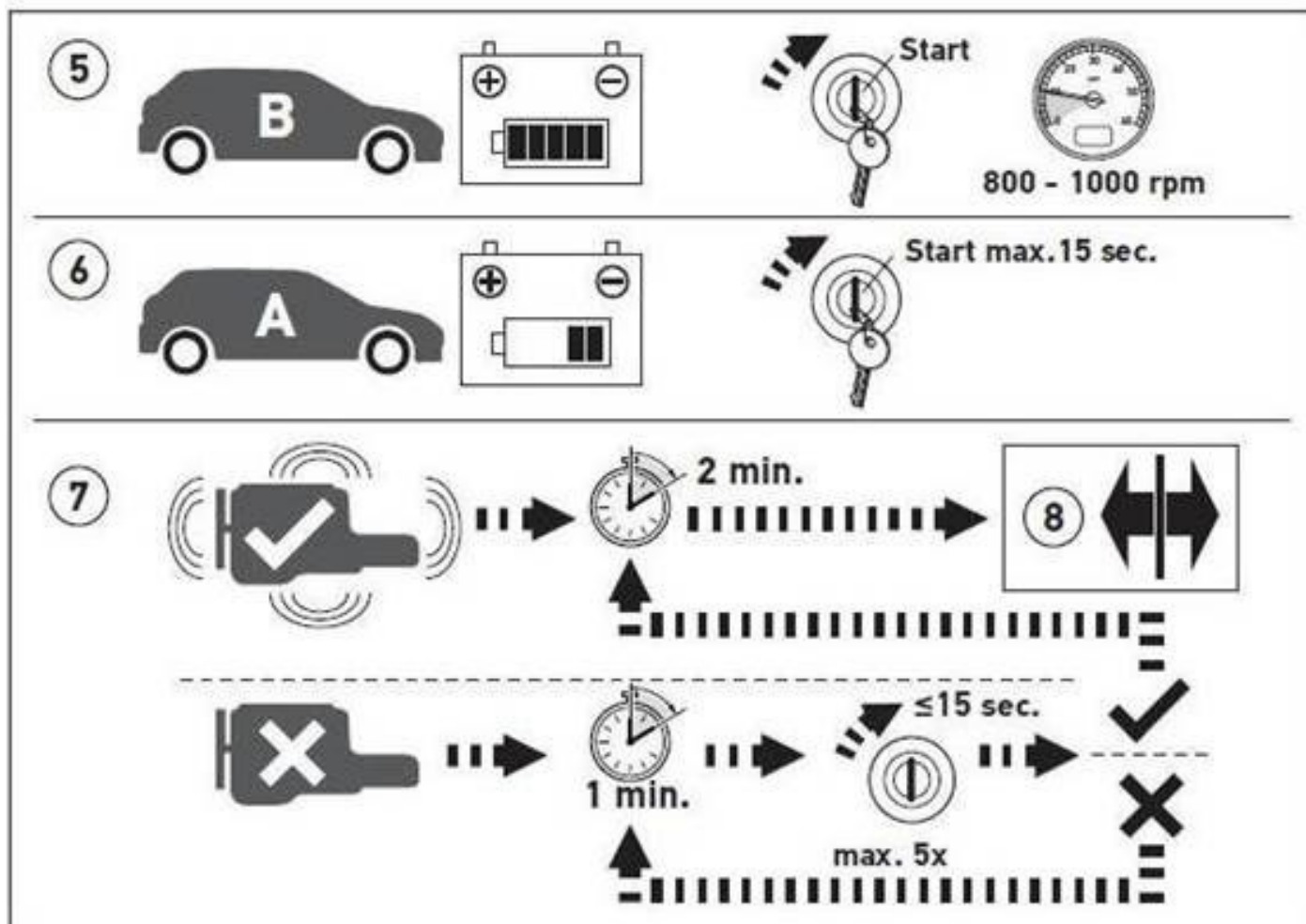


Image

Position of jumpstart connection points

BMW/E90 in engine compartment

Jumpstarting



Disconnecting the jumper cables

Disconnect the jumper cables in reverse order.

- Disconnect clamp 2 of the black jumper cable from the vehicle with the dead battery
- Disconnect clamp 1 of the black jumper cable from the vehicle with the current-supplying battery
- Disconnect clamp 2 and then clamp 1 of the red jumper cable

Note!

After a successful jump start, the vehicle should first be driven around for some time to recharge the battery.

To prevent further vehicle breakdowns, the vehicle battery should be recharged using a charger and checked afterwards, or be replaced if this is necessary.