

## When installing the starter motor, remember...

Avoid unnecessary problems by following some simple installation advice:

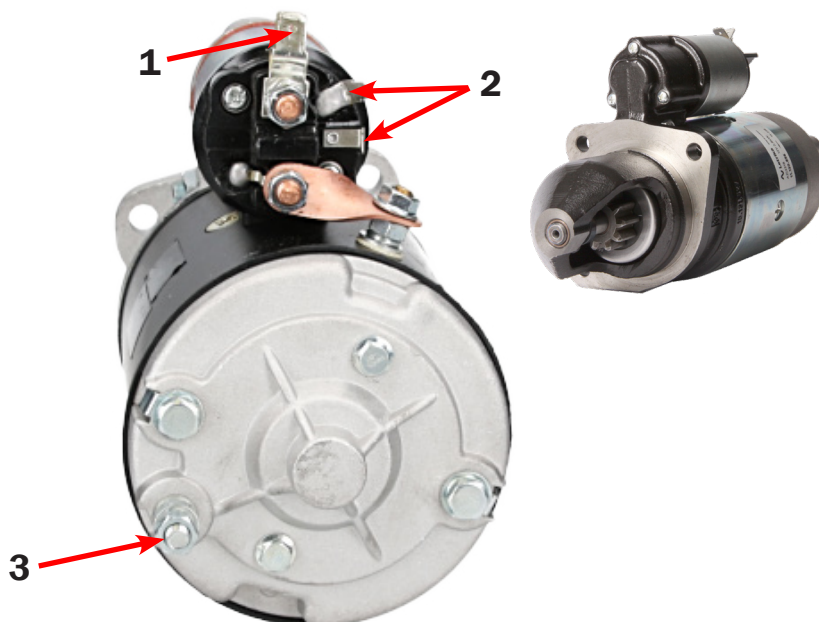


1. Prior to installing your new starter motor, you must ensure that the starter motor has the same fastening on the vehicle as you old starter motor. In general the starter motors may have a different appearance.
2. Make sure that the connection plane on the vehicle and on the starter motor are free from grease, paint or the like that can insulate and reduce contact between the starter motor and vehicle body.
3. Make sure the cable lugs for the starter motor and battery are in good condition and are of the right dimensions. Too thin cables or poor cable lugs reduce the power throughput and with that the starter motor's output.
4. Is the battery cut off switch the right dimensions and in good condition? A too small battery cut off switch or an old switch with oxidised or burnt poles acts as a resistor and reduces the motor's output.
5. Do not forget that the starter motor's negative side is just as important as the positive side. If there are separate earth terminals on the starter motor these must be used to give the right output. Also check the battery's earth connection.
6. Many starter motor failures are dependent on the vehicle's ignition switch. Contact play or that the starter motor does not release its mating after the engine starts, are usually due to the start contact, and quickly result in serious damage to the starter motor.
7. If the vehicle is positively earthed: Measure the cables with a Multimeter. The cable on which you get 12 V must be connected to the starter motor's positive terminal.  
The cable on which you get 12 V when you turn the key to the start position must be connected to the starter motor's On position.



## Here follow a few examples of connections on the starter motors:

1. Connected to the battery's positive terminal.
2. Start contact (ignition switch). On starter motors with 2 pins, connect the upper pin.
3. If the starter motor has this terminal marked 31 it must be connected to earth.



If you have purchased this type of starter motor read how the pins are marked and connect as follows:

- 30 = connected to the battery's positive terminal  
 31 = connected to the battery's negative terminal  
 50 = connected to the start contact (ignition switch)



At the slightest doubt of how to connect the starter motor, contact our sales department or a workshop first for the correct connection of the starter motor on just your vehicle.



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