



Application: Standard Beetle Sedan, 1949-1977



Tools Needed



STEP 1.

Begin on the driver's side by carefully removing the door panel and hardware.

STEP 2.

Find the proper motor drive gear for your vehicle using the provided adapters and assemble the gears as shown on Diagram A.

STEP 3.

Hold gear-head on the shaft and move the motor end around and find a spot to mount it where it won't interfere with the door panel or any other moving parts. In many vehicles it will be necessary to trim away some sheet metal to accommodate the motor. Roll the window up and down to check for clearance.

STEP 4.

Attach the worm drive to the gears on the regulator.

STEP 5.

Insert ring clip to hold the worm on the gears.

STEP 6.

Insert a small screw between the inner and outer gears. See diagram B.

STEP 7.

Mount the motor in your selected location.

STEP 8.

Secure the worm drive using bracketry supplied with the kit to mount motors as well.

STEP 9.

Test fit the door panel to be sure of proper fitment.

STEP 10.

With the door panel on loosely locate the proper filler cap and install. See diagram C. (next page)

STEP 11.

Repeat above steps on the opposite door.

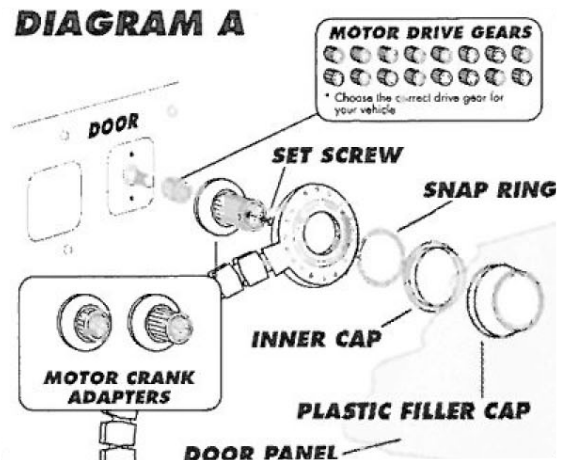


DIAGRAM B

Choose the correct drive gear and crank adaptor. Then line up notches for set screw.



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Description (cont.)

WIRING:

STEP 1.

Run the wire-loom across the underside of the dash and tie down with cable ties. Note. The group of four wires runs to the driver's side and the group of three wires runs to the passenger side.

STEP 2.

Connect the power wire (RED) into a switched power source, preferably the keyed ACC. Note: Using a switched power source allows the window units to only work when the key is in the ON position.

STEP 3.

Connect the ground wire (BLACK) to a clean chassis ground point.

STEP 4.

Run wires into the door through the existing door looms. If this is not possible then holes should be drilled in the doorjamb and additional door looms used. It is important to use door looms to prevent the wires from becoming chaffed and shorting.

STEP 5.

Connect the wires into the provided plugs shown in Diagram D. Mount the switches in an appropriate place on the door panel. Use the provided template to determine the location. Note: in some vehicles you can mount the switch case over the motor crank adapter to hide your existing window crank hole.

STEP 6.

Connect wires to the motor assembly. Use provided wire extension if needed. Be sure to keep the wiring away from any moving parts.

STEP 7.

Connect the wire-loom to the switch assembly.

STEP 8.

Turn ignition key to the on position and test your power window system.

STEP 9.

Install door panel and hardware.

STEP 10.

Install rubber adapter plug on the motor crank adapter.

STEP 11.

Repeat above steps on the remaining doors.

DIAGRAM C

Choose correct filler cap for you vehicle. Cap is placed on the outside of the door panel. The inner cap goes on the inside of the door panel.

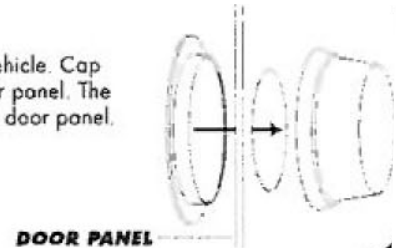
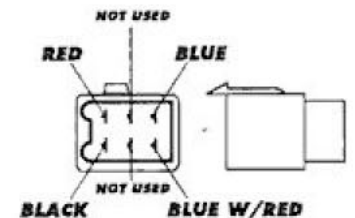
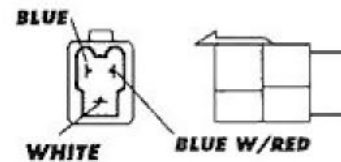


DIAGRAM D

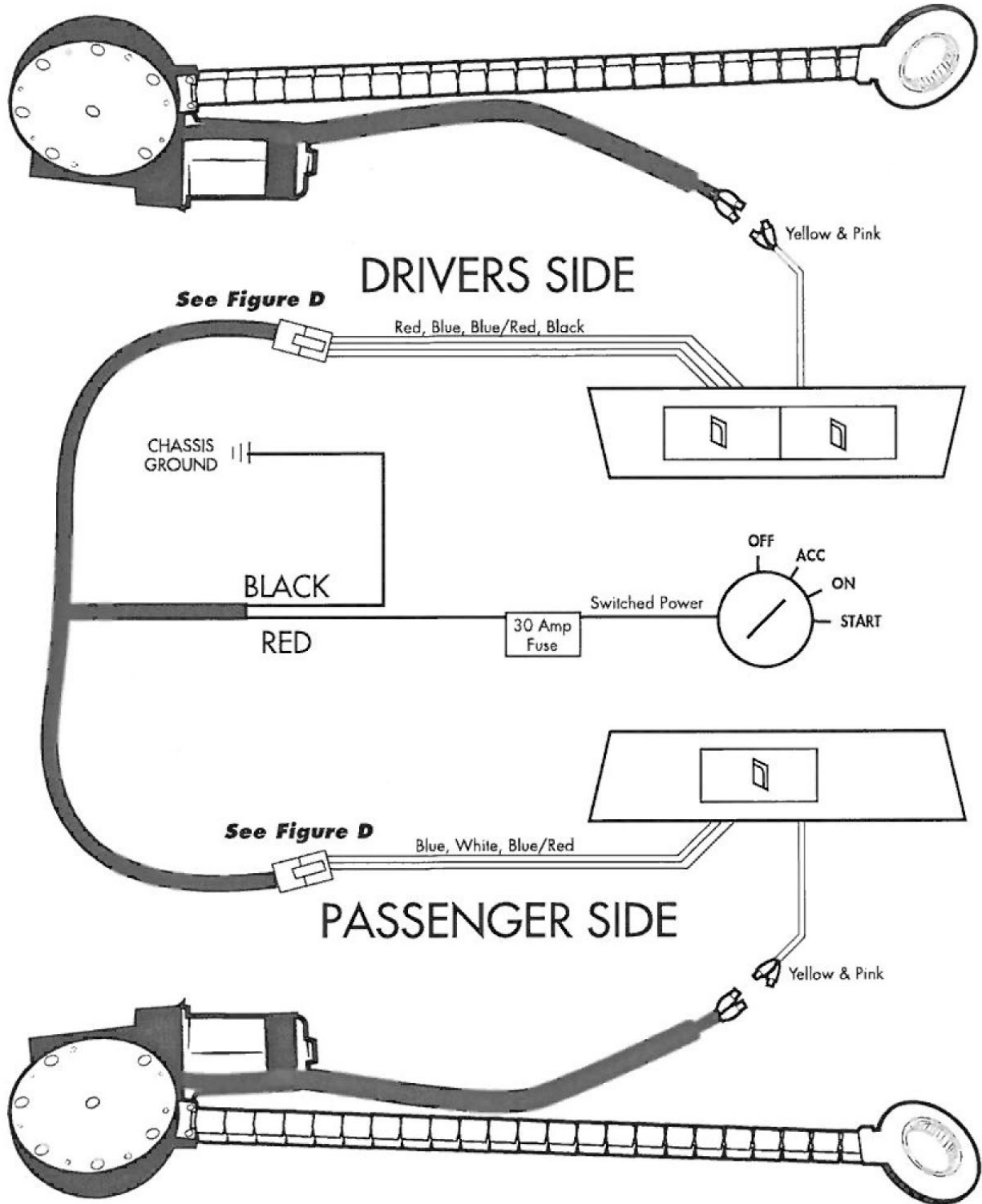


* Wire colors are for reference only. Harness colors may differ.



Description (cont.)

WIRING DIAGRAM



*NOTE: THIS KIT DOES NOT INCLUDE RELAY, RELAY SOCKET, FUSES, OR ADDITIONAL WIRE. CONTACT YOUR SALES REP TO ORDER