



QUALITY... PLAIN & SIMPLE®

## Billet Exterior 12 Volt Door Handles Installation Instructions

### General Installation Notes:

Please read these instructions completely before beginning the installation. If you have any questions, please call.

Before beginning the installation, disconnect the negative battery cable and use wheel chocks to block the vehicle's wheels.

Make sure the engine, transmission, body and frame are properly grounded. We recommend using anti-seize lubricant on all aluminum threads.

Refer to Fig. 1 and Fig. 2 for the names of the components.

The standard version of the Lokar Door Handle is designed to be used with a finger recess built into the door. The XL version of the Lokar Door Handle provides 7/8" of clearance between the door and the switch, and may be used without a recess in the door.

The Door Handles may be installed in any direction, according to your application and preference.

**IMPORTANT:** If your battery becomes completely discharged, the Door Handles will not operate. Before installation, make sure you have a manual way to gain access to the vehicle's interior without having battery power.

If you are NOT going to have the Door Handles painted, powder coated, polished or plated, it is not necessary to disassemble the Door Handles. If you ARE going to have the Door Handles painted, powder coated, polished or plated, see the **Disassembly** and **Reassembly** sections on Page 3 first.

### Drilling The Mounting Holes

**Step 1:** Determine which direction you want the Door Handles to be mounted in. Also decide which Door Handle will be mounted on each side of the vehicle, and mark them accordingly.

The mounting holes will be 5.6" (5-19/32") center to center. Mark the location of the two door handle mounting holes onto your door, and drill 3/8" diameter holes. Fig. 3 and Fig. 4

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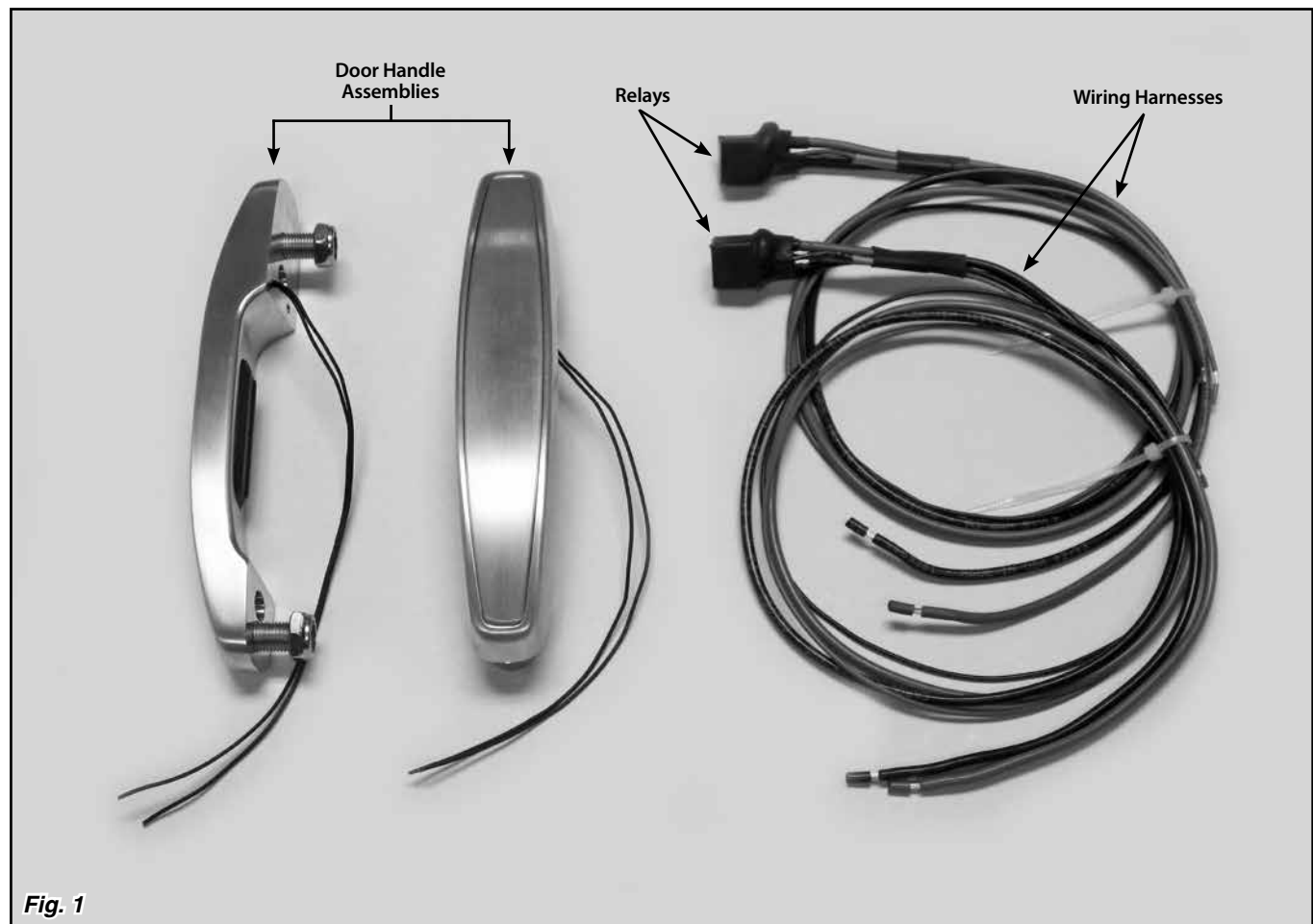


Fig. 1

**Step 2:** Note the location of the switch wiring on each Door Handle. It is important that you do not get the left and right side handles mixed up. Fig. 3 The door handle bases are designed so that if the Door Handles are installed facing the same direction and you are using the top hole for the wiring on the left side of the vehicle, you will also be using the top hole on the right side of the vehicle.

### **Step 2 continued:**

Mark the location of the switch wiring hole onto your door. You can use the dimensions in Fig 4 to measure and mark the location of the switch wiring hole, or you can disassemble the Door Handle and use the door pull as a template. Double check to make sure the spot you marked matches the Door Handle that is being installed on that side of the vehicle. Drill the hole for the switch wiring, using a 5/32" drill bit.

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### Installation:

**Step 3:** Pass the door handle switch wires through the proper hole in the door, and position the Door Handle Assembly on the door. If you are using the offset Door Handles, install the beveled aluminum washers onto the 3/8"-24 x 1" set screws inside the door. Rotate the beveled aluminum washers so that they sit flat against the inside of the exterior door panel. **Fig. 5**

**Step 4:** From inside the door, start the nylock nuts onto the 3/8"-24 x 1" set screws. Then use a 3/16" Allen wrench to hold the set screws and keep them from turning, and tighten the nylock nuts. **MAKE SURE** you hold the set screws stationary while you are tightening the nylock nuts. **Fig. 6**

### Wiring:

**Step 5:** Verify that your negative battery cable is disconnected! Protect your wiring harness from abrasion where it leaves the body and enters into the door. Make sure the wiring is routed so that it will not interfere with any moving parts when the window is being raised or lowered.

**Step 6:** The Lokar Door Handle is designed to work with a common five terminal, "Bosch" style relay (not supplied) that connects to the electric door solenoid. Refer to the supplied wiring diagram. **Fig. 7**

The supplied wiring harness has a built-in relay with four wires. The four wires coming out of the relay on the supplied wiring harness should be connected as follows:

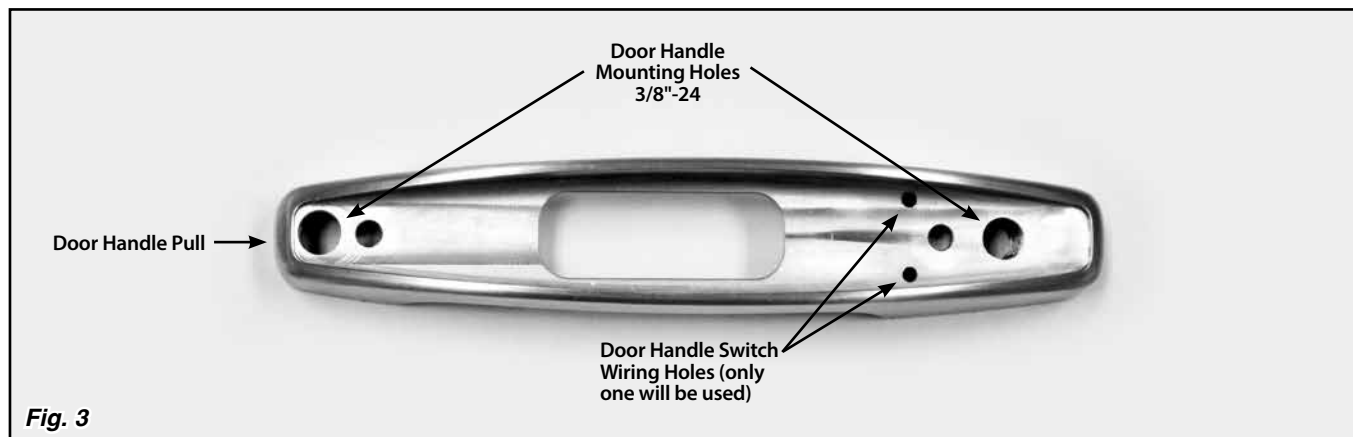
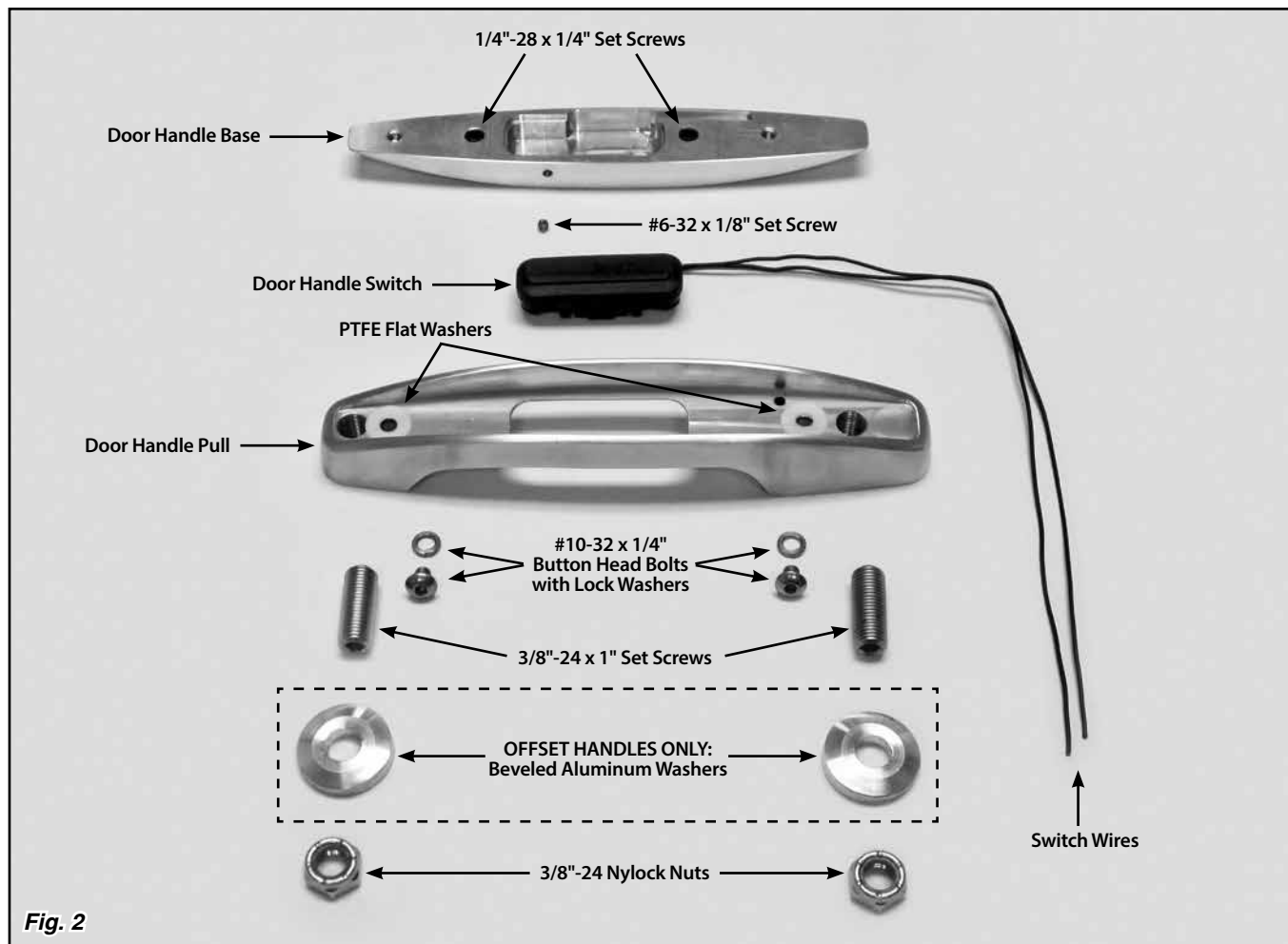
- 14 AWG (large) red wire to the "Bosch" style relay at terminal 86
- 20 AWG (small) red wire to a 3-amp fused, constant (NOT switched!) 12V battery source **AND** to the "Bosch" style relay at terminal 85
- 14 AWG (large) black wire to a chassis ground
- 20 AWG (small) black wire to one of the wires on the door handle switch

Connect the remaining wire on the door handle switch to a chassis ground. Note that the metal in a vehicle door may not be a reliable ground in some cases. Connect the ground wires back to a solid, verified ground on the vehicle body or chassis.

**Step 7:** Connect a 12 AWG red wire (not supplied) with a 40 amp fuse (not supplied) from a constant (NOT switched!) 12V battery source to the "Bosch" style relay at terminal 30.

Connect terminal 87 on the "Bosch" style relay to the door solenoid.

**Note:** Make sure when the installation is finished that both the relay in the supplied harness and the "Bosch" style relay are positioned with the wires exiting from the bottom of the relay, to help prevent moisture from getting inside the relays.



## Billet Exterior 12 Volt Door Handles Installation Instructions

### Disassembly:

**(Only Necessary if Painting, Powder Coating, Polishing or Plating the Door Handles)**

**Step 1:** Remove the 3/8"-24 x 1" set screws and nylock nuts (and the beveled aluminum washers for offset handles only) from the back of the Door Handle assembly.

**Step 2:** Remove the #10-32 x 1/4" button head bolts with lock washers from the back side of the Door Handle.

**Step 3:** Carefully separate the door handle base from the door handle pull. The door handle switch will still be attached to the base, but the wires from the switch pass through a hole in the pull. Be careful not to lose the two PTFE flat washers that are in between the base and the pull.

Separate the wires completely from the door handle pull.

**Step 4:** If you are going to have the door handle base painted, powder coated, polished or plated, remove the #6-32 x 1/8" set screw that retains the door handle switch in the door handle base. Remove the switch from the base.

Remove the 1/4"-28 x 1/4" set screws from the door handle base.

### Reassembly:

**Step 5:** If the door handle switch was removed from the door handle base, reinstall the switch and the #6-32 x 1/8" set screw. The set screw only needs to be snug; do not over-tighten.

If the 1/4"-28 x 1/4" set screws were removed from the door handle base, reinstall them.

**Step 6:** Pass the door handle switch wires through the proper hole in the door handle pull. Be careful not to chafe the switch wires. Set the PTFE flat washers into place where the #10-32 x 1/4" button head bolts go through the door handle pull. Set the door handle base into the door handle pull. Make sure that the door handle switch wires are positioned in the wiring groove and are not pinched between the base and the pull.

The 1/4"-28 x 1/4" set screws can be used to adjust the height of the door handle base for alignment purposes if desired.

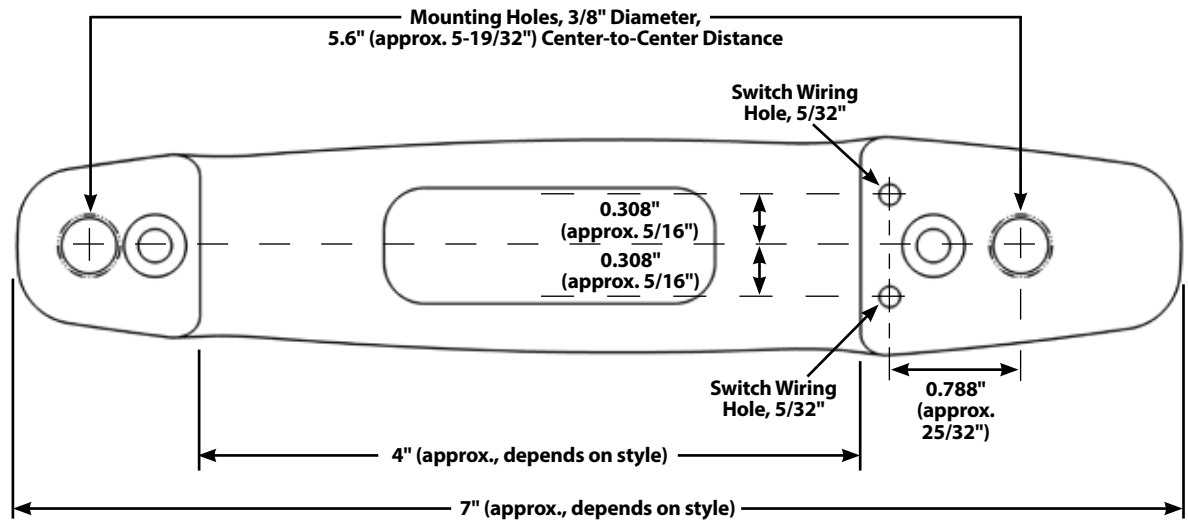
**Step 7:** Insert the #10-32 x 1/4" button head bolts and lock washers into the door handle pull and through the PTFE flat washers. Thread the button head bolts into the base.

**Step 8:** Install the 3/8"-24 x 1" set screws into the door handle pull. NOTE: Do not over-tighten the 3/8"-24 x 1" set screws. Finger-tighten only at this point!

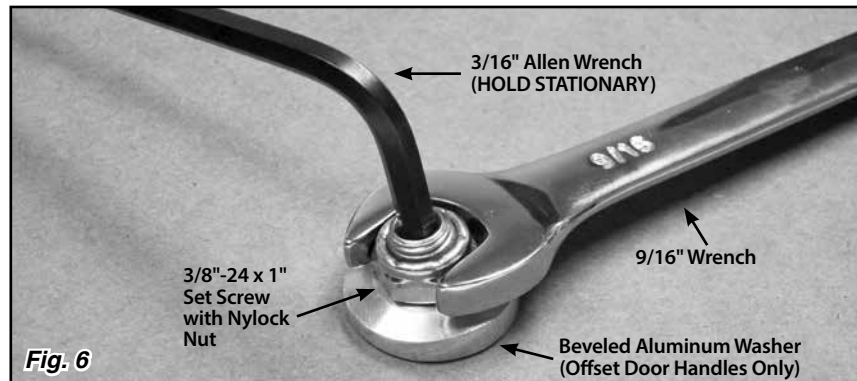
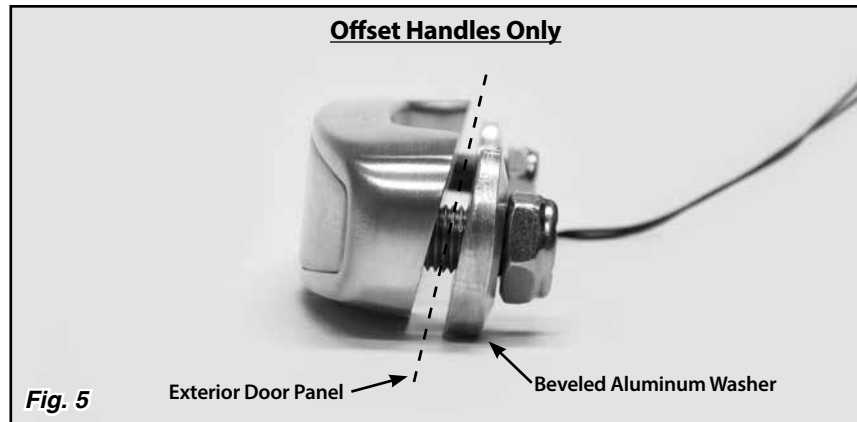
Once the Door Handles are assembled, return to "Drilling The Mounting Holes".

Fig. 4

### Hole Locations **\*\* DRAWING IS NOT FULL SIZE \*\***



### Offset Handles Only



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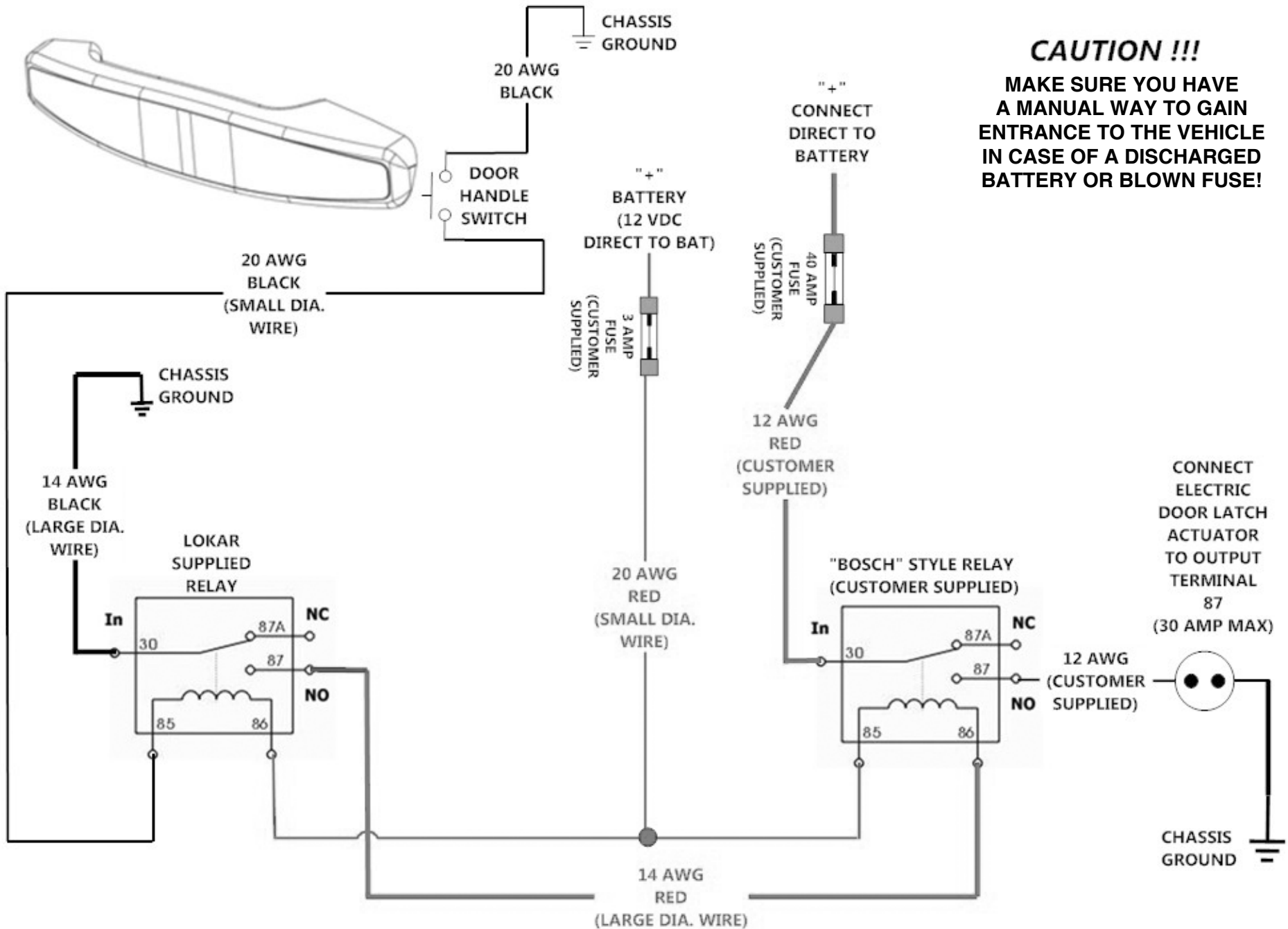


Fig. 7