

# MODEL 612

## POWERWINCH

### Automatic Electric Anchor Windlass-12V. D.C.

#### INSTALLATION INSTRUCTIONS

1. Place windlass on template (enclosed) as shown in Figure 1. The rope pulley (Fig. 2) inside rope housing to be in line with the desired pull.

Remove windlass, leaving template in proper position and drill two 7/16" holes 6-3/4" apart as shown, for bolts, and one 7/8" hole for electric cable. Feed electric cable through hole and fasten windlass into position temporarily. Use 3/8-16 bolts. Length should be deck thickness plus 3/4".

**Note:** Don't force these bolts. They should line up with nuts in base of unit.

2. Remove outer cover (on side) from rope housing. Spot a 5/16" hole on base of housing, (Fig. 3) and mark a 1-1/4" Dia. hole for the rope to feed into rope locker. (Fig. 3)

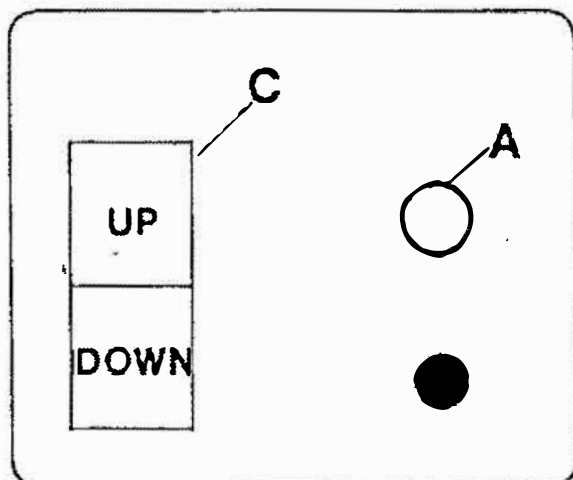
Remove windlass and drill 5/16" hole as marked above, and 1-1/4" hole. In the 1-1/4" hole, insert a brass grommet, top and bottom, (important to prevent rope chafing thru deck) for the rope to feed easily through. Fasten the bottom grommet with several brads. Fasten windlass permanently in place and replace cover on rope housing. Be

sure to caulk base to deck thoroughly around edges to prevent moisture entering unit. Be sure cover is put back in place **flush**. **The two lugs on cover must fit into notches on rope guide.**

3. Place guide pulley in front of housing (Fig. 3) keeping pulley on C/L with housing pulley. Be sure to install up **snug** against housing. Spot two holes and drill for 5/16" bolts. Fasten guide pulley permanently in place. Make sure pulley turns freely and does not bind on side of housing before tightening down bolts. There is a lot of "Up" strain on these bolts under load. Be sure to beef up under deck with large washers or plate (etc.) to prevent pulling bolts out!
4. Fasten solenoid panel (Fig. 4) below deck within reach of electric cable from windlass. Keep panel free of rope hole and rope, (see wire diagram for electrical connections).

Feed rope (line) into guide pulley when windlass, switch is in "Up" position. This will pull rope (line) through windlass to rope locker. It may be necessary to help feed it into drive pulley to get it started. This can be done by using a blunt tool thru hole on top side of guide pulley bracket.

**Note:** Use 1/2" or 5/8" medium hard or hard twist rope.

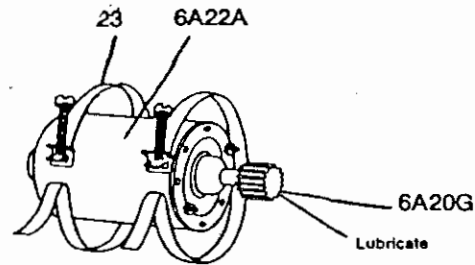
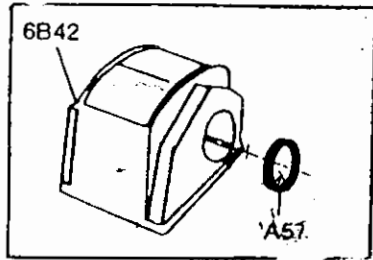


#### REMOTE SWITCH OPERATING INSTRUCTIONS

1. Push (A) to unlock, light on.
2. Push rocker (C) down or up as required.
3. Push (A) to lock, light off.

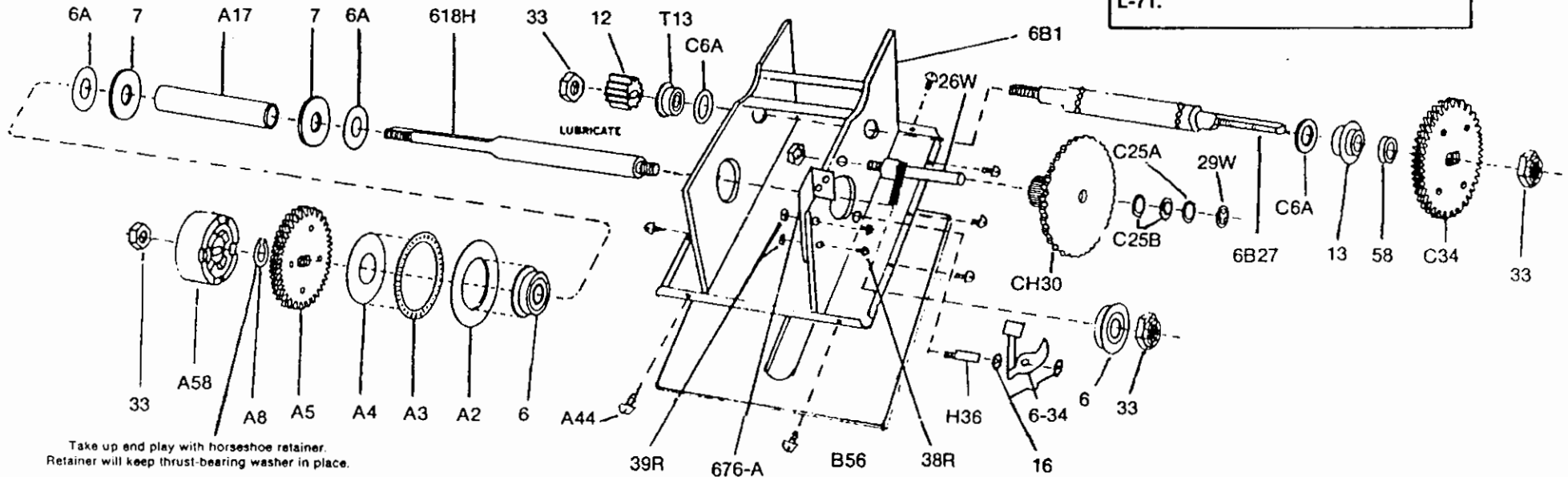
**Note:** Windlass should always be in lock position (light out) whenever down or up is completed.

**Warning:** Allow unit to stop before pushing (A)



## POWERWINCH ANCHOR WINDLASS REPLACEMENT PARTS

LUBRICATION: ONCE A SEASON, LUBRICATE GEAR TRAIN WITH A MULTIPURPOSE HEAVY-DUTY LUBRICANT. WE SUGGEST OUR MOLYKOTE G-N PASTE, PART NO. L-71.



Take up end play with horseshoe retainer. Retainer will keep thrust-bearing washer in place.

No.	Description	No.	Description	No.	Description	No.	Description
6-B-1	Frame and base pan	13	Rear shaft bearing	6-B27	Rear shaft	A-44	Stainless screws
A2	3/4" OD thrust bearing washer	T-13	Double roll rear shaft bearing	29W	Split ring retainer	6-47	Fuse AGW 2 1/2 A
A3	Thrust bearing	16	Pawl retainer	CH-30	Compound gear assembly	47-A	Circuit breaker
A4	3/4" ID thrust bearing washer	A-17	Front shaft spacer tube	33	1/2-20 locknuts R.H.	B-56	Flat deck seal
A5	Front shaft drive gear	6-17NR	Remote switch panel	C-34	.250 thick drive gear, rear shaft	A-57	Capstan seal
6A	5/8" hole .030 thick bearing spacer	6-18H	Front shaft	6-34	Pawl assembly	58	End spacer
6	Drum shaft bearing	6A-20-G	Motor gear welded to 6A-22-A	H-36	Pawl stud	A58	Spacer
C-6-A	1/2" hole .060 washer	6A-22-A	Motor with gear	38R	Screws	6-75P	Solenoid panel
7	5/8" hole .125 thick spacer	23	Motor straps	39R	Nuts for 38R	6-75A	Solenoid
A8	Horseshoe retainer	C-25-A	.030 thrust race	6-B-42	Case (one piece)	6-76	Solenoid switch
12	5 <sup>00</sup> pinion gear	26W	Compound gear stud with nut			6-76-A	Solenoid bracket
		C-25-B	.060 thrust race				

**AUTOMATIC ANCHOR WINDLASS MODEL 612  
INTERNAL WIRING DIAGRAM & PARTS**

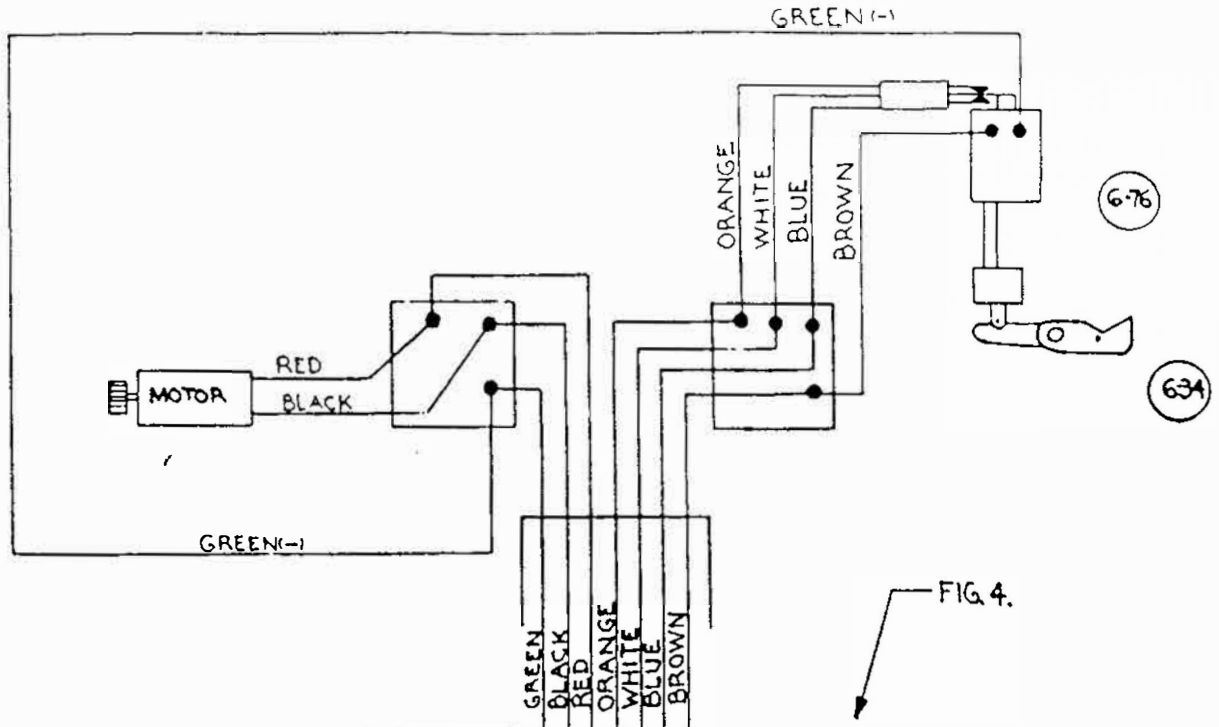


FIG. 4.

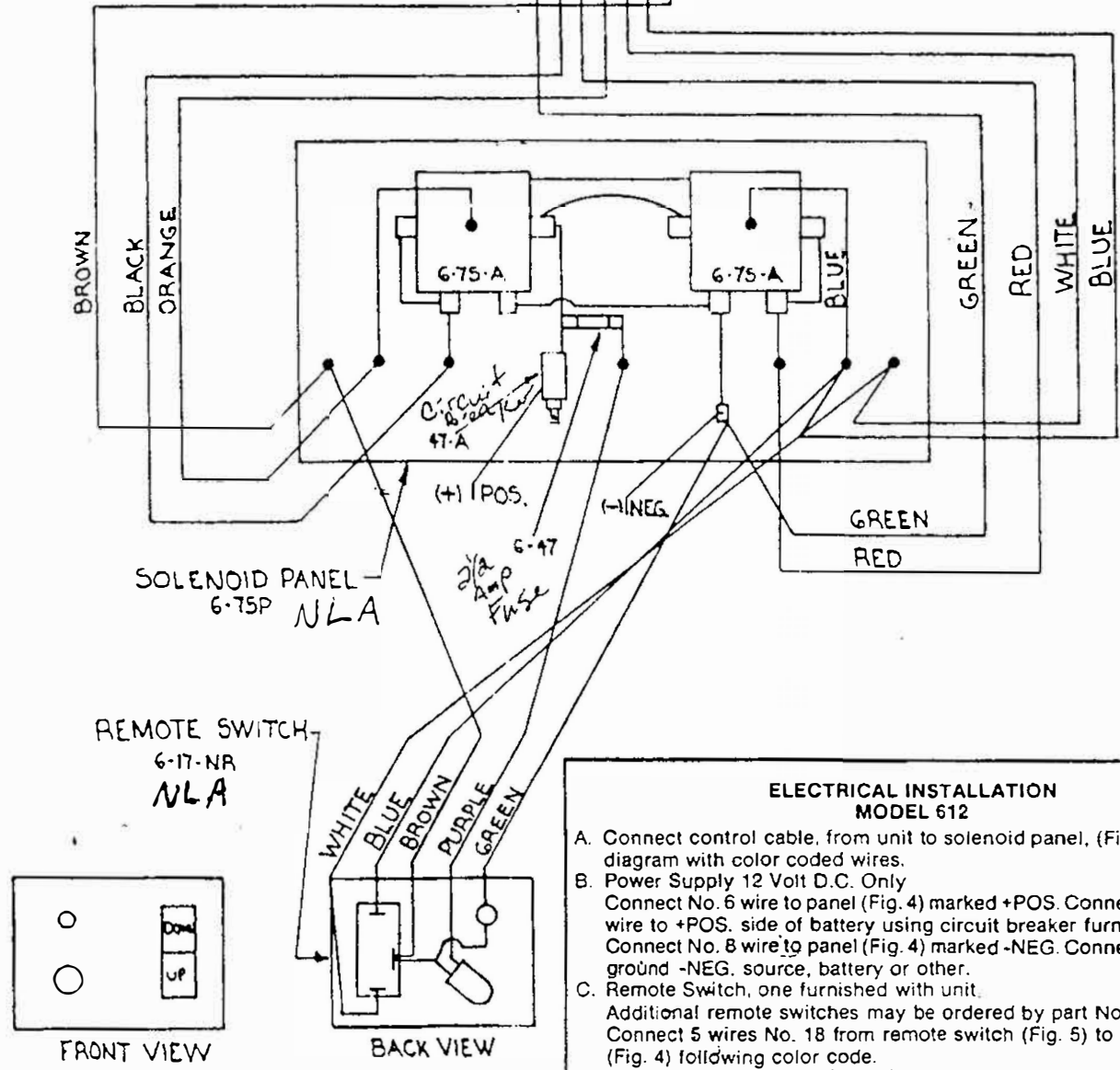
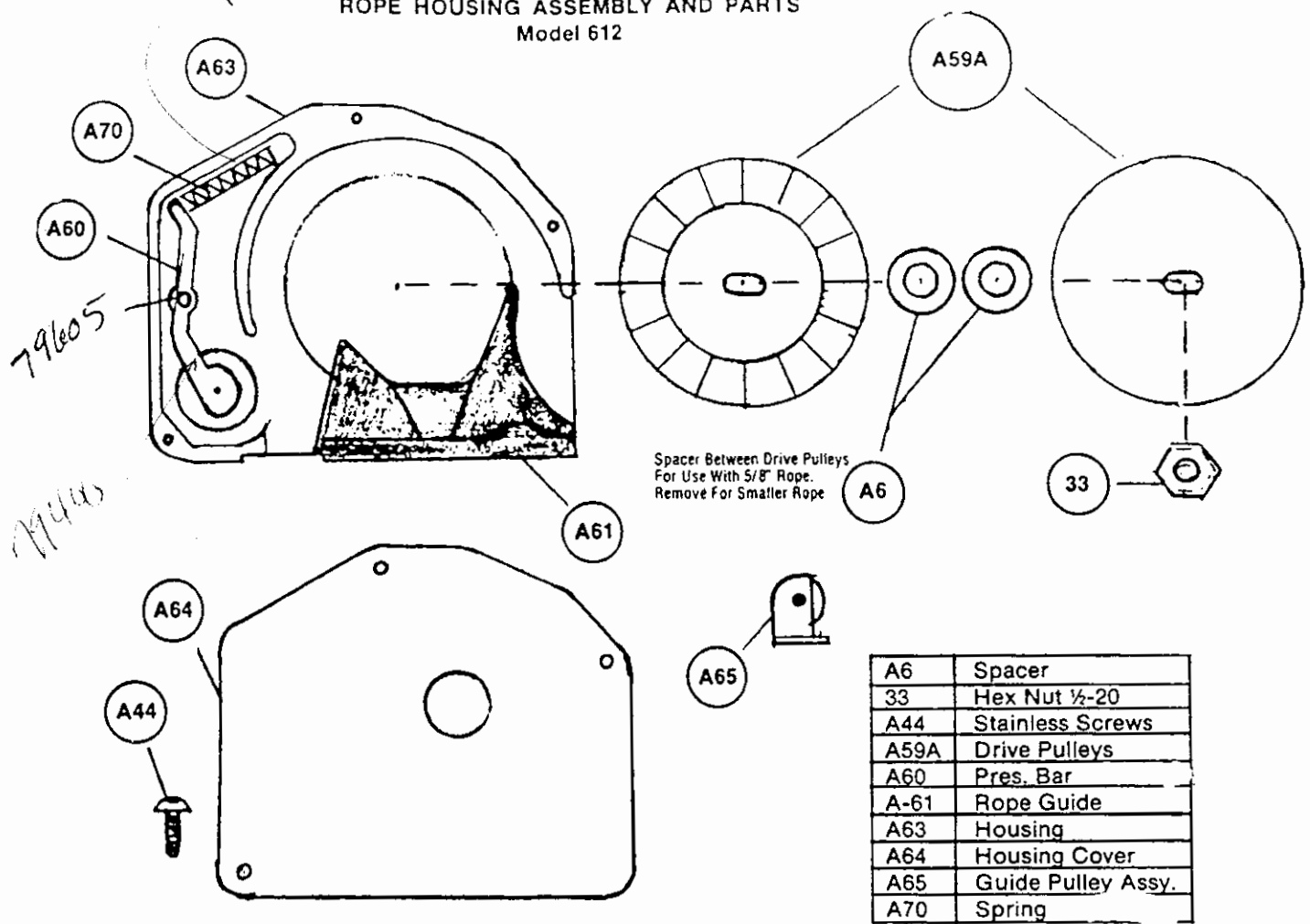


FIG. 5.

**ELECTRICAL INSTALLATION  
MODEL 612**

- A. Connect control cable, from unit to solenoid panel, (Fig. 4) following diagram with color coded wires.
- B. Power Supply 12 Volt D.C. Only  
Connect No. 6 wire to panel (Fig. 4) marked +POS. Connect other end of wire to +POS. side of battery using circuit breaker furnished loose.  
Connect No. 8 wire to panel (Fig. 4) marked -NEG. Connect other end to ground -NEG. source, battery or other.
- C. Remote Switch, one furnished with unit.  
Additional remote switches may be ordered by part No. 6-17-NR.  
Connect 5 wires No. 18 from remote switch (Fig. 5) to solenoid panel (Fig. 4) following color code.  
Size of switch panel — 3 1/4 x 2 1/2  
Size of hole for switch — 2 1/2 x 1 1/2  
Depth of switch — allow 2"

ROPE HOUSING ASSEMBLY AND PARTS  
Model 612



### INSTALLATION CHECK LIST

Before connecting final power supply line, make sure that all switches are in "off" position.

**IMPORTANT:** MAKE SURE CIRCUIT BREAKER (40A furnished loose) IS CONNECTED TO POWER SOURCE (+ POS.) BEFORE CONNECTING POWER LINE TO UNIT.

Never operate two switches at the same time. Operate one or the other. When not in operation, make sure all switches are in "off" position.

If the unit does not function when completely assembled and connected:

1. Check the small fuse in the solenoid panel. This could have blown while the installation was being made.
2. Re-check all wiring to be sure it is connected according to instructions. The color code shown in Figure 4-5 of wiring diagram **must** be followed.
3. Check all connections to see that they are tight.

Is your battery putting out full voltage? If, through a voltage drop, you are getting less than 9 volts, unit will not function properly.

5. Your circuit breaker may not be functioning properly. Momentarily bypass the circuit breaker and try operating unit again.

This unit was completely checked before leaving factory, so if you have trouble, it **should** be due to one of the above points. If, after checking as above, the unit still will not operate, contact the factory immediately.

If, when the unit is completely assembled and the switch is pushed and the unit does not operate, but the solenoids on the panel "click," check your battery for charge.

If your line is smaller than 5/8", you may find that your line slips. To correct this, remove the plate on the rope housing (by removing three screws). Remove nut and the outer rope drive plate. Next, remove two washers. Replace drive plate. Put washers back on shaft **outside** the drive plate. Replace nut and the cover on the rope housing. Drive plates are designed as a split system with spacer washers between to obtain proper pressure on rope. By removing spacers 1/2" rope can be used or 7/16.

If rope is in the unit when this change is being made, make sure the rope is pushed back to the outermost diameter (against housing, before tightening nut).

You may find it advisable to have a cut-off switch attached to your unit. This would eliminate the possibility of someone on board "toying" with the switch. To do this, make your live wire connection from the solenoid panel to your master power switch rather than direct to your battery.