
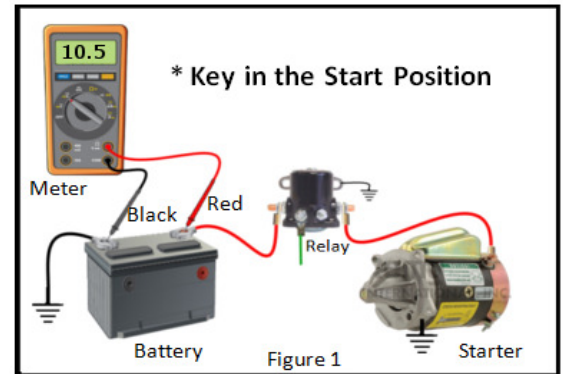


TECHNICAL TIP

TT-671

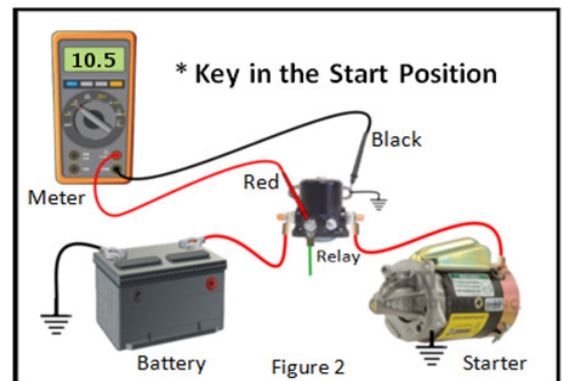
Step 1: Check for Proper Battery Voltage:

1. Set your voltmeter to V-DC 
2. Connect the black lead to the negative battery post and the red lead to the positive battery post as shown in figure 1.
3. Turn the ignition key to the start position and read the meter.
 - If measurement is less than 10.5 volts have the battery tested.
 - If greater than 10.5 volts proceed to step 2



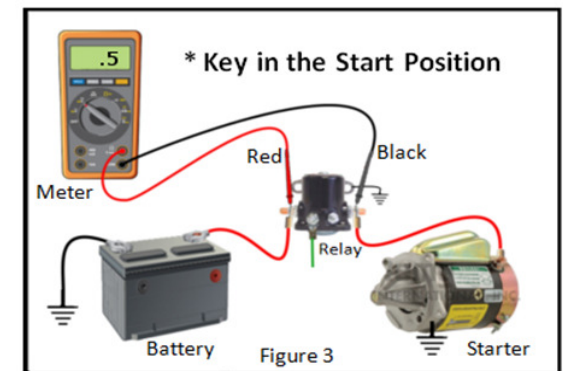
Step 2: Check Ignition signal to Starter Relay:

1. Connect the black lead to the starter relay mounting bolt and the red lead to the starter relay S terminal as shown in figure 2
2. Turn the key to the start position.
 - If the measurement is less than 10.5 volts repair the relay ground, ignition switch, neutral switch, or wiring.
 - If 10.5 volts or greater proceed to step 3



Step 3: Check Starter Relay Contacts:

1. Connect the black lead to the output post of the starter relay and the red lead to the input post of starter relay as shown in figure 3.
2. Turn the key to the start position.
 - If measurement is less than .5 volts go to step 4.
 - If measurement is greater than .5 volts replace the starter relay and retest.



Step 4: Check Voltage to the Starter:

1. Connect the black lead to the starter housing and the red lead to the B+ terminal on the starter as shown in figure 4.
2. Turn the key to the start position
 - If the measurement is less than 10.5 volts, test and replace the positive and/or negative battery cables.
 - If the measured voltage is 10.5 volts or greater have the starter bench tested and verify no internal engine damage or flywheel damage.

