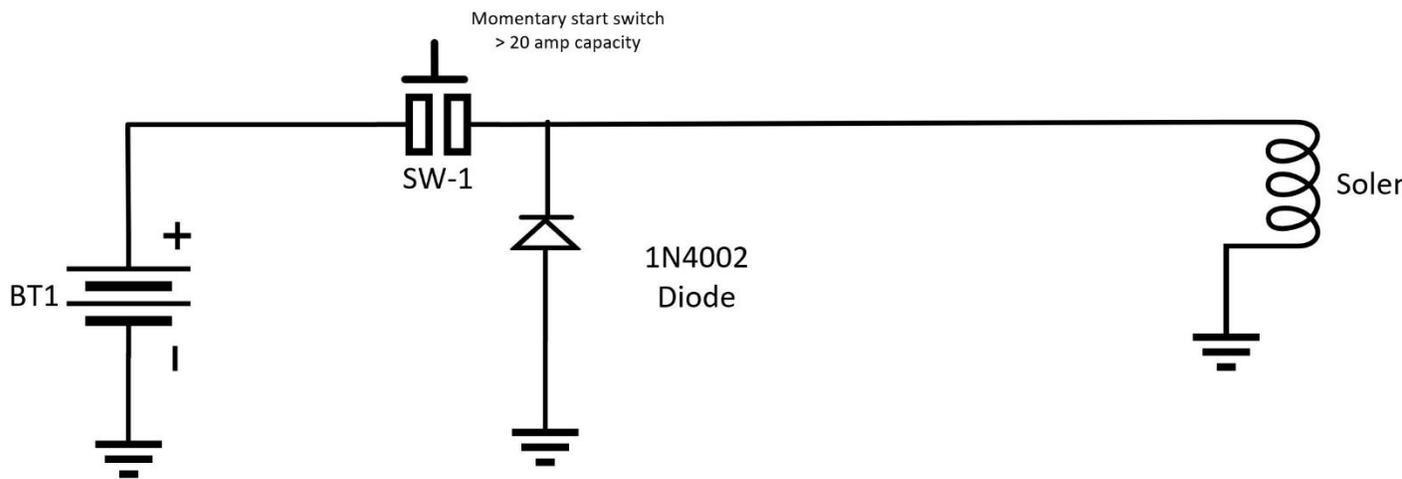


## Starter Installation Instructions

1. Remove old starter and retain bolts.
2. Place new starter on mounting boss using the alignment pins to align the starter correctly.
3. Bolt the starter in place using bolts retained in step one along with new flat washers and lock washers. (Best not to use any thread lock on these bolts as they provide the starter ground)
4. Tighten bolts to finger tight.
5. Torque bolts in a clockwise pattern to 50-60 inch lbs.
6. Retorque bolts in a clockwise pattern to 100-120 inch lbs
7. Attach the main power cable using the 8mm nut supplied.
8. Torque nut to 50 inch lbs.
9. Done



Basic Starter Circuit



**Knowledge point**

Q: What's the diode for?

A: Starter solenoids are a coil. When energized they create an electric field around the coil. When the power is removed the field is removed or collapses. When this field collapses it produces a large voltage that travels back down the wire to the switch. If the diode is not in place the voltage will jump across the open contacts of the switch. This current jump or arc will eventually damage the switch. The best practice is to add a diode and give the voltage a path to ground and not your switch. Each starter or solenoid we sell comes with a 1N4002 diode.



**Knowledge point**

Q: What are the markings on the 1N4002 diode?

A: DC current always flows from NEG to POS. The arrow in the diode symbol points to the NEG, because we want the arc current to flow into the arrow point. Now what about the diode itself and that stripe painted on one end. This stripe is the flat line at the point of the arrow. Therefore, the lead on the opposite side of the diode should be grounded and the stripe lead should go to your wire that connects to the solenoid.



1N4002  
Diode

