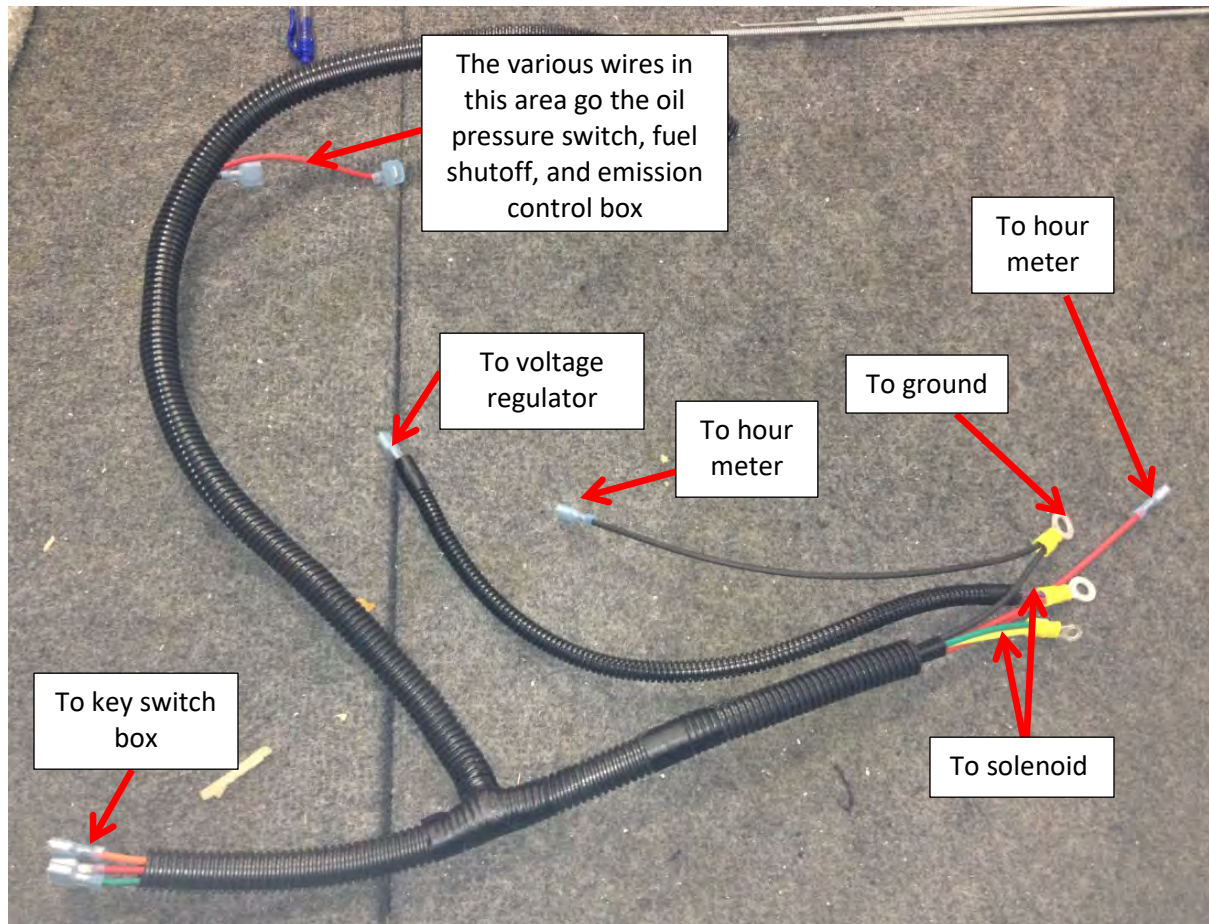
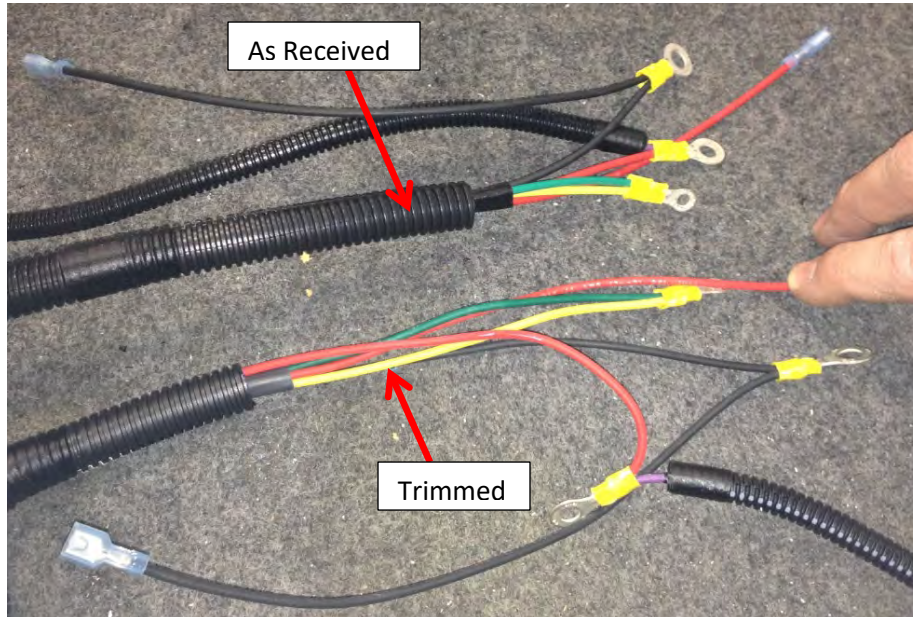


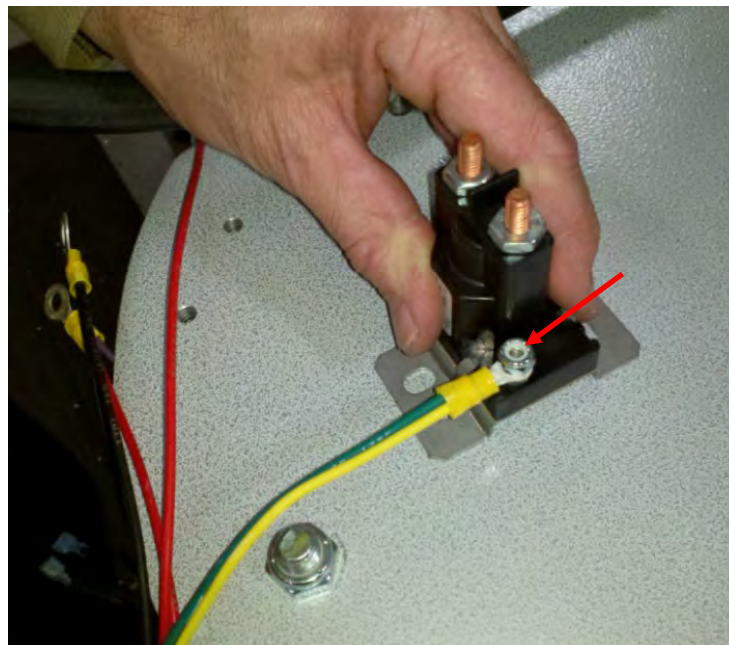
- 6.20** At this point, flip the machine back onto its wheels so that the wiring can be completed.
- 6.21** Below is the picture of the wiring harness and where the different wires and connections are used. Verify that the correct wire is being used in each step below.



6.22 Trim some of the loom back as shown.



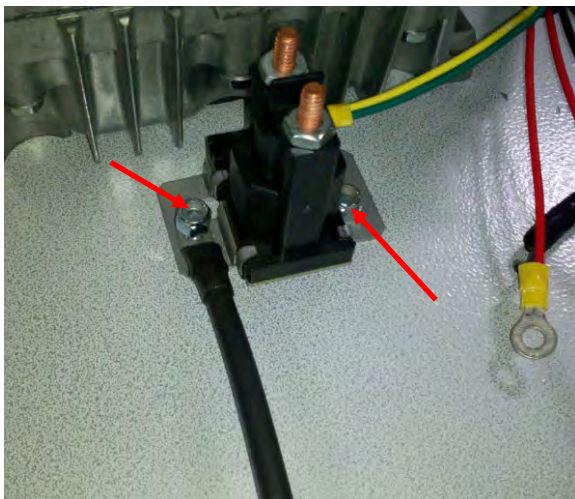
6.23 Start the wiring with a solenoid (11772) and a wiring harness (89590). Connect the ring terminal that has the yellow and green wires to the appropriate terminal on the solenoid. Finger tighten a nut (10120) to hold the wires in place.



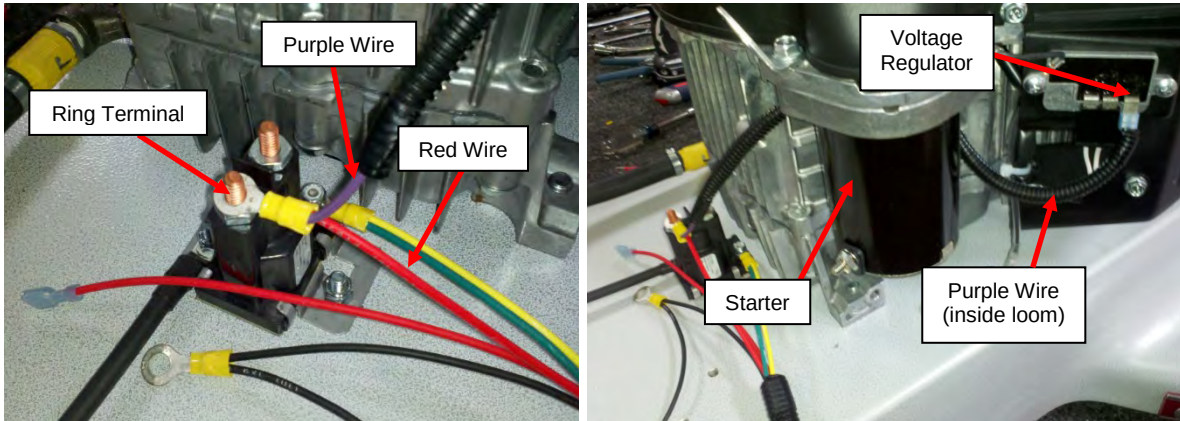
- 6.24** Move the solenoid to its proper location on the machine deck. See the photo below for orientation. Lay the wiring harness in the direction shown.



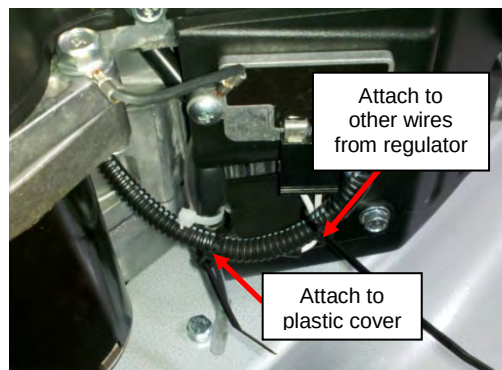
- 6.25** Use 2 screws (10122) and 2 nuts (83520) to attach the solenoid to the deck. Install a black cable (12381) onto the side of the solenoid shown. Note the orientation of the cable. Tighten all of the nuts on the solenoid (3 locations).



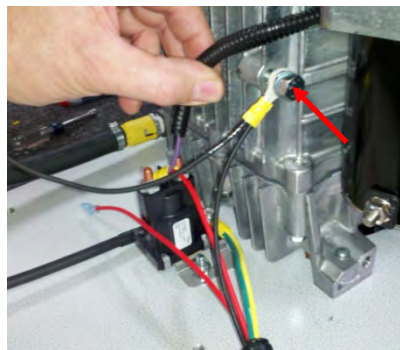
- 6.26** On the wiring harness there is a ring terminal with a red and a purple wire. Place the ring terminal over the solenoid post shown in the photo. The purple wire with the loom connects to the voltage regulator on the motor. Run the wire behind the starter to keep it from getting snagged during use.



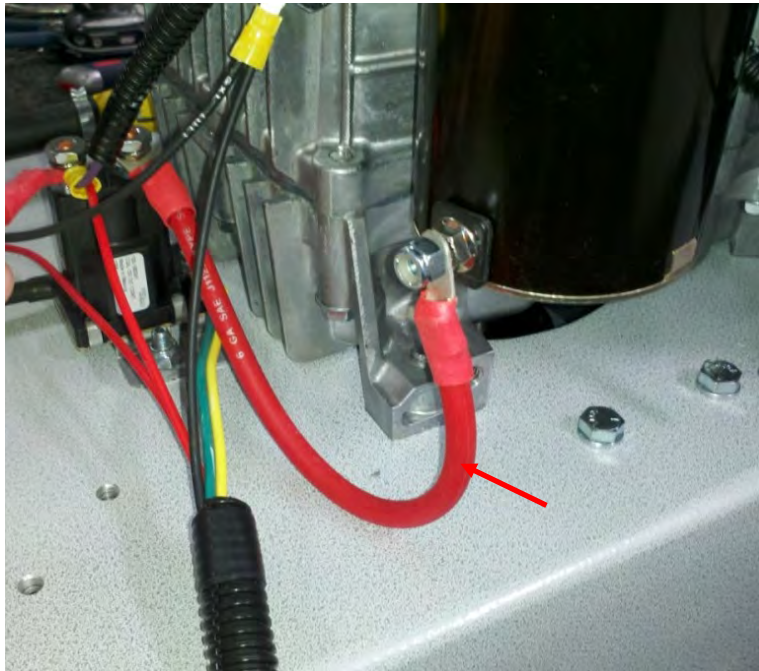
- 6.27** Use 2 wire ties (83523) to attach the loom to the locations shown for extra strength. Cut off the excess length of wire tie.



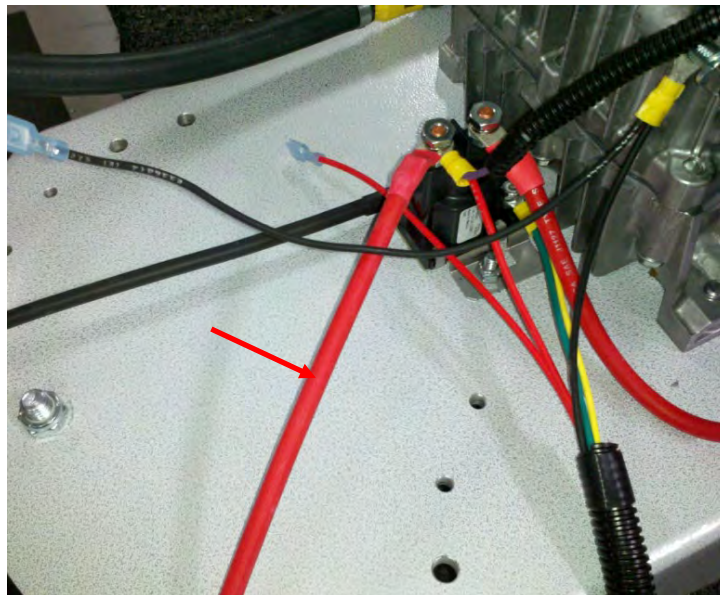
- 6.28** The large ring terminal with two black wires needs to be attached to the engine to provide the ground. This is done with a screw (81917) and a lock washer (81067).



- 6.29** Use a red cable (12380) to connect the starter to the solenoid. Use a nut (83520) to fasten the cable to the starter. Use one of the nuts and a lock washer that was provided with the solenoid to attach the other end of the cable to it. Do not overtighten.



- 6.30** Connect another red cable (12380) to the other solenoid terminal. Let the cable sit in the orientation shown. Use one of the nuts and lock washers provided with the solenoid to connect this. Do not overtighten.



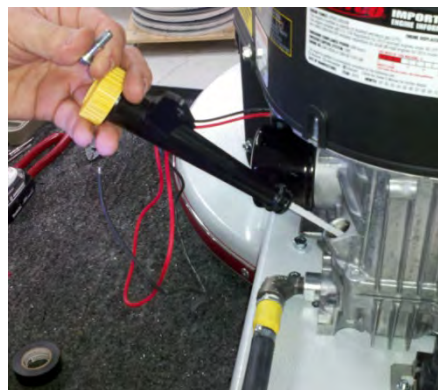
- 6.31** There will be one black and one red wire that already have terminal crimped onto the end of them. Take these two wires and tape them together. These wires will connect to the hour meter in a later step.



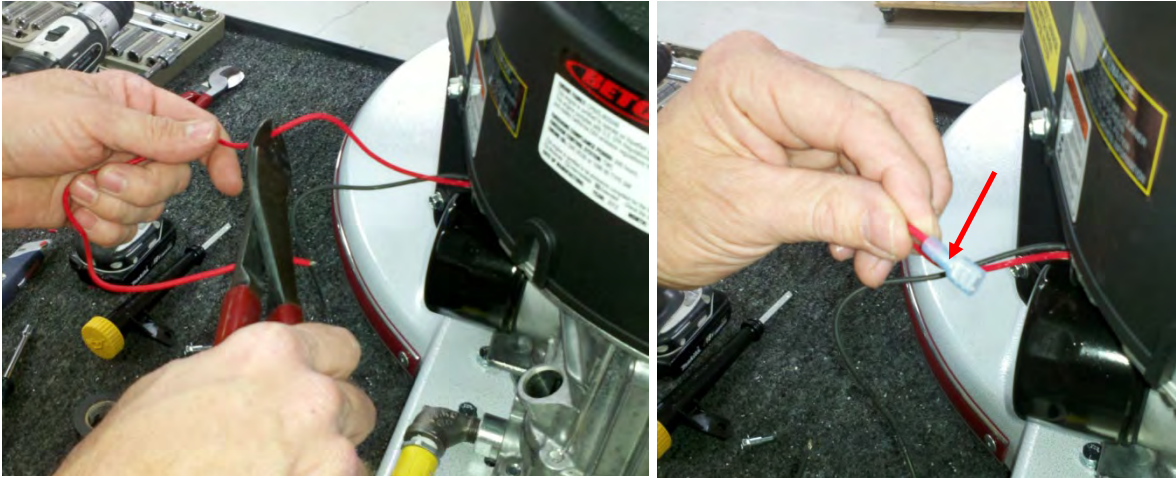
- 6.32** Connect the emissions sensor on the muffler to the emissions control box mounted on the engine. The control box mounting instructions are in SOP EQ 027.



- 6.33** Remove the oil tube by taking out of the bolt that attaches it to the motor. Save all of the parts as they will be re-installed later.



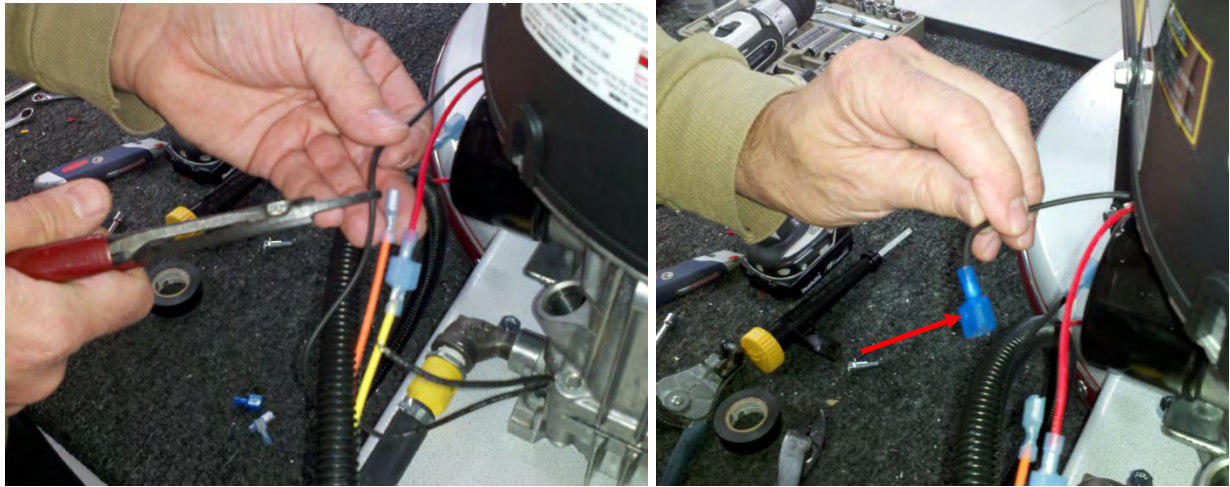
- 6.34** On the oil pressure switch, cut the red wire to approximately the length shown (5"-6" long). Strip the end of the wire in crimp on a female connector (12254).



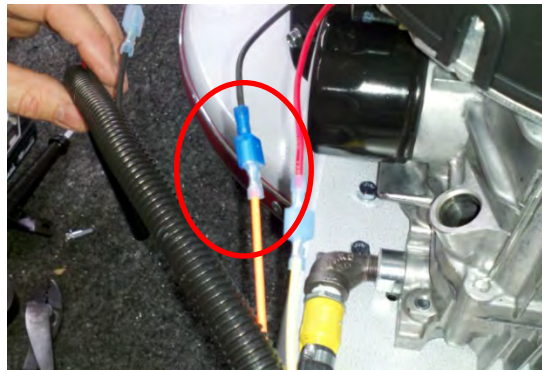
- 6.35** Swing the end of the loom over to this side of the machine and expose the yellow and orange wires. Connect the yellow wire to the red wire that was just cut.



- 6.36** Hold the orange wire up next to the black wire that comes from the oil pressure switch. Cut the black wire to length so that it matches up with the orange wire without too much slack. Strip the end of the black wire and crimp on a male connector (88924).



- 6.37** Connect the black wire to the orange wire.



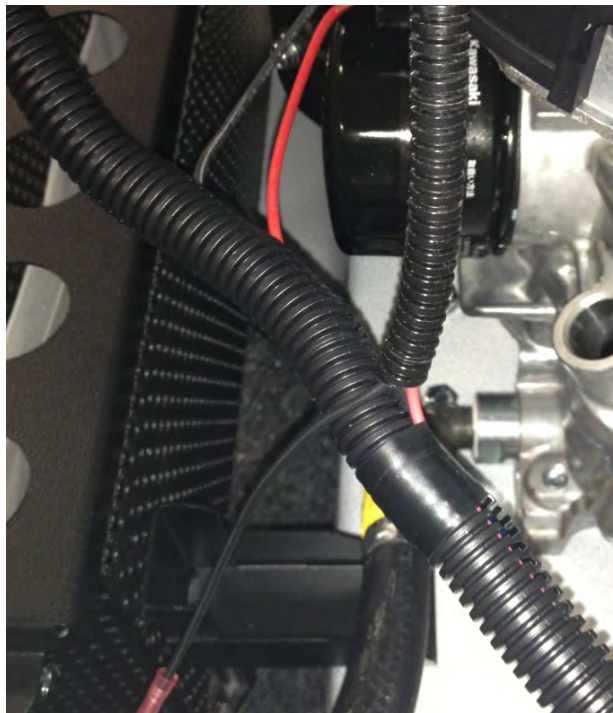
- 6.38** Take the two connections that were just made and tuck them back into the loom so everything is tight and clean. Wrap it with some electrical tape to hold it together.



- 6.39** Crimp a connector (12254) onto the end of the red wire that is coming out of the emissions control box. The wire has a small loom along most of its length. Connect this wire to the blue wire coming from the harness.



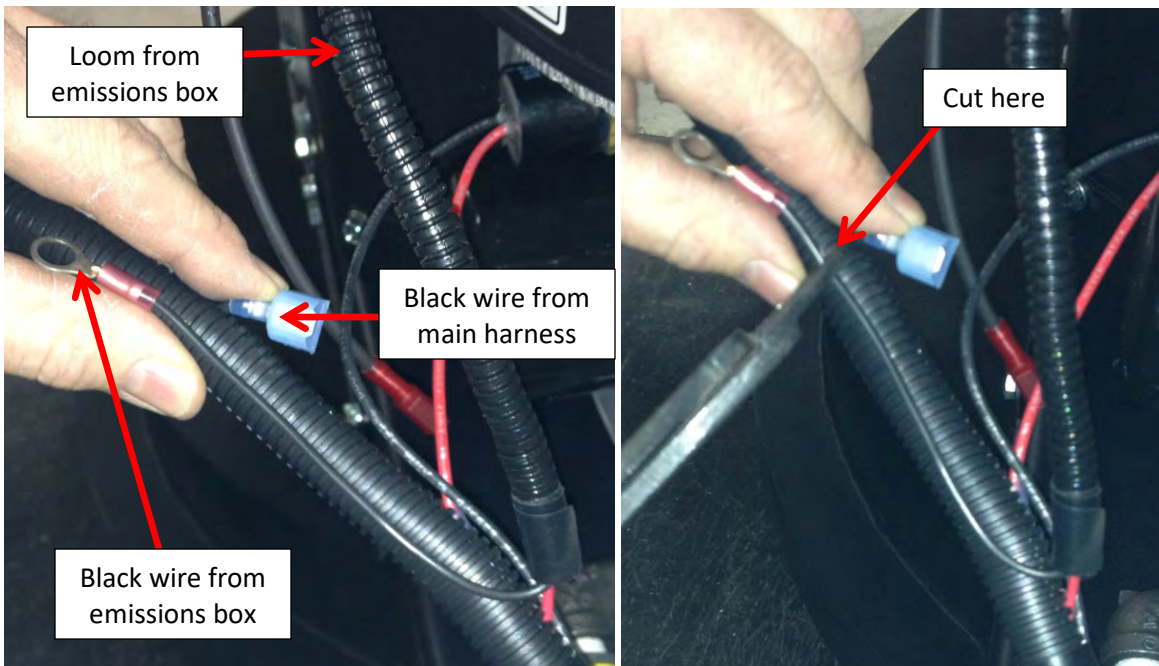
- 6.40** Tuck these wires into the loom as shown. Wrap some electrical tape around the loom to hold everything in.



- 6.41** Also wrap some electrical tape around the end of the smaller loom coming from the emissions control box.



- 6.42** Locate the black wire with the ring terminal that comes from the emissions control box. Hold that wire along the wire harness loom as shown. Trim it at the black wire in the harness. This will remove the ring terminal.



- 6.43** Crimp a connector (12254) onto the black wire that was just trimmed. Connect it to the black wire from the harness.



- 6.44** Tuck these wires into the loom and use electrical tape to hold everything inside.



- 6.45** Re-install the oil tube. Tuck the loom behind the tube as shown. This will hold it tight the machine and help prevent it from getting snagged during use.



- 6.46** Get a battery that has already been load tested per SOP EQ 077.
- 6.47** Connect the black and red battery cables to the battery. These cables were connected to the solenoid earlier. Orient the wires as shown below. The hardware for this step is provided with the battery.



- 6.48** Get a right side handle upright that was assembled using SOP EQ 078. Attach the upright to the machine base using 2 bolts (83629), 2 flat washers (81062), and 2 nuts (11146). Only hand tighten the bolts at this point. Once everything is assembled, we will go back and tighten them.



- 6.49** Connect the proper red and black wires from the wiring harness to the hour meter. It does not matter which wire goes to which side of the meter.



- 6.50** Attach the left side handle upright (89824) to the machine base using 2 bolts (83629), 2 flat washers (81062), and 2 nuts (11146). Only hand tighten the bolts at this point.

