Service Bulletin

Date 24/11/2015 BULLETIN # 248

MILLER BOBCAT 250 & TRAILBLAZER 325

FAULTY 240V AUXILLIARY SOCKETS

CAUTION: The following information is intended for use by qualified service personnel. When the unit is energised LETHAL VOLTAGES are present on the electrical and electronic components. It is not intended that persons without suitable training and knowledge attempt to perform service tasks on the components of welding equipment.

There have been some instances where the 15 amp, 240 volt outlets manufactured by Clipsal, part number 10MD15SWE, have proven to be unreliable in service. These sockets incorporate a double pole switch which is actuated when the plug pins are inserted. In some cases the contact for the active fails to close reliably.

WIA have ceased using this part and are now using the Clipsal FOS106/15 socket which does not incorporate internal switching.

If you encounter a Miller Bobcat 250 or Trailblazer 325 with faulty 15 amp socket during warranty period, contact WIA Technical Service Coordinator for replacement socket/s.

Wiring to the new socket requires longer crimp pins for reliable connection into the screw terminals. New pins will be provided with the sockets to facilitate connection of the earth wires and active wires.

On the original installation, the neutral connection is looped from the first socket to the second socket. However it is not easy to connect the new sockets using the existing neutral wires. 2 new wires will be provided so that the neutral for each socket can be independently connected to the RCD.

Clipsal 10MD15SWE with internal switch

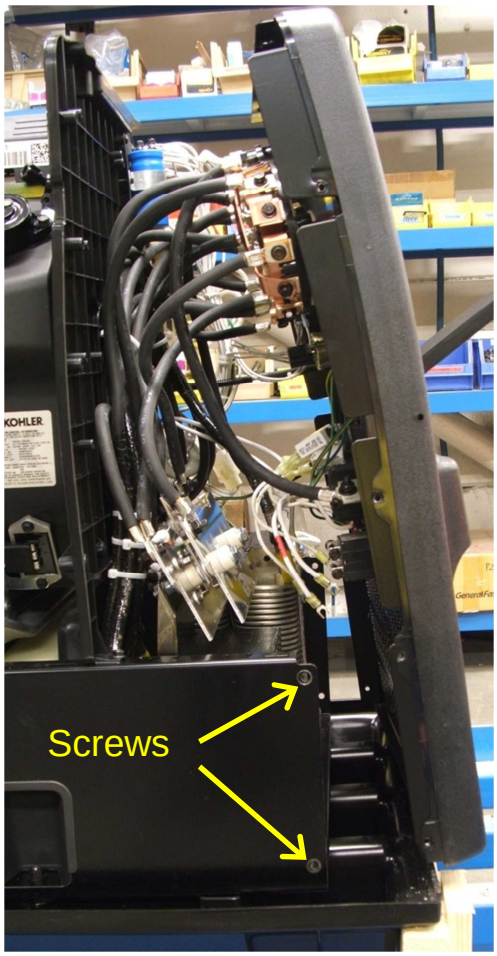
Clipsal FOS106/15 without internal switch

The parts supplied to replace 2 sockets on a Bobcat 250 include:
2 x FOS106/15 sockets
1 x wire with pin at each end, approx. 150 mm long for neutral connection
1 x wire with pin at each end, approx. 200 mm long for second neutral connection
4 x crimp style terminals with long pins

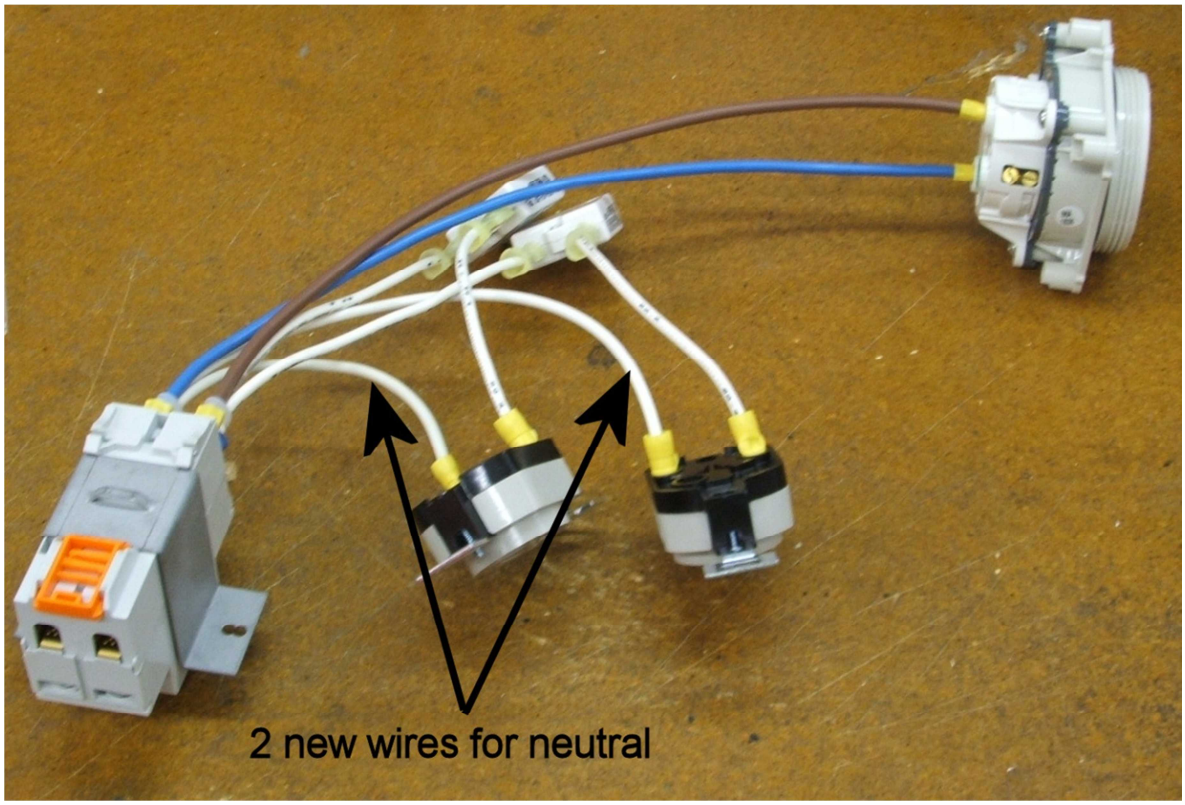
The information provided in this sheet is accurate and reliable, however no warranty of accuracy or reliability is given and no responsibility arising in any other ways by errors or omissions is accepted.

Installation:

1. Remove the top cover from the Bobcat 250 using 3/8" socket.
2. Remove the 2 side covers closest to the front of the machine.
3. Undo 4 screws (see photo on right) that secure the front panel to each side. This will allow the front panel to be shifted forward and give access to the electrical connections.
4. Remove and discard the 2 x wires connecting neutral to the 2 x 15 amp sockets.
5. Disconnect the 2 x earth wires and 2 x active wires from the 2 x 15 amp sockets.
6. Remove the 2 x existing 15 amp sockets and fit the 2 new sockets.
7. Cut the existing pins from the 2 x earth wires and crimp new long pin terminals in their place.
8. Connect the 2 earth wires to the 15 amp sockets.
9. Cut the existing pins from the 2 x active wires and crimp new long pin terminals in their place.
10. Connect the 2 active wires to the 15 amp sockets.
11. Fit the shorter neutral wire between RCD and the closer 15 amp socket.
12. Fit the longer neutral wire between RCD and the other 15 amp socket.
13. Check that all wiring is secure using cable ties as required.
14. Fit the 4 screws that secure the front panel.
15. Refit the side covers and top panel.
16. Run the engine and check output from the 2 x 15 amp sockets.



The photo below shows how the components will be connected.



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