



Service Bulletin

Date 17/05/2018

BULLETIN # 254

MC105, WELDARC 200I AC/DC

CHECKING PRIMARY CABLE CLEARANCE

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.

To check for correct installation of primary cable on MC105, Weldarc 200i, AC/DC Tig Welder

There has been a small number of instances where the one wire of the primary cable has become squashed between the rear panel and the vertical metal frame member. This has resulted in the insulation being damaged and the wire has contacted the machine frame.

The following instruction advises how to check for correct installation of the primary cable, and the method of rectifying any incorrect installation.

Remove the machine power cord from the electrical supply.

Remove 6 x screws from the cover plate on the rear panel as per photo. Normally removing this cover plate is sufficient to carry out the inspection, however it is expected that removal of the complete machine cover will be required if any remedial work is required.

Inspect (and remedy if required) the following:

The outer insulation sheath of the primary cable must extend through the cable restraint such that the sheathing protects the primary wiring as it makes a sharp 90 degree bend to run along side the vertical frame member.

If it doesn't extend far enough, loosen the cable restraints and cable gland and extend a sufficient length of the sheathed portion through.

The excess active and neutral wire length must then be prevented from being trapped between the frame member and rear panel. This can be achieved by either of 2 methods:

1. Shorten the 2 cables, and attach new forked lugs, or
2. Pull excess length towards the switch and restrain the cables with cable ties so that any excess length is prevented from coming back through the hole in the vertical frame member.

If the sheathed portion is correct as described above and does not require modification, then check that the active and neutral wires are only just long enough to reach the on/off switch without excess length. If either of these is too long there is a chance that it may become squashed between the rear panel and the vertical frame member. To rectify this either:

1. Shorten the 2 cables, and attach new forked lugs, or
2. Pull excess length towards the switch and restrain the cables with cable ties so that any excess length is prevented from coming back through the hole in the vertical frame member.



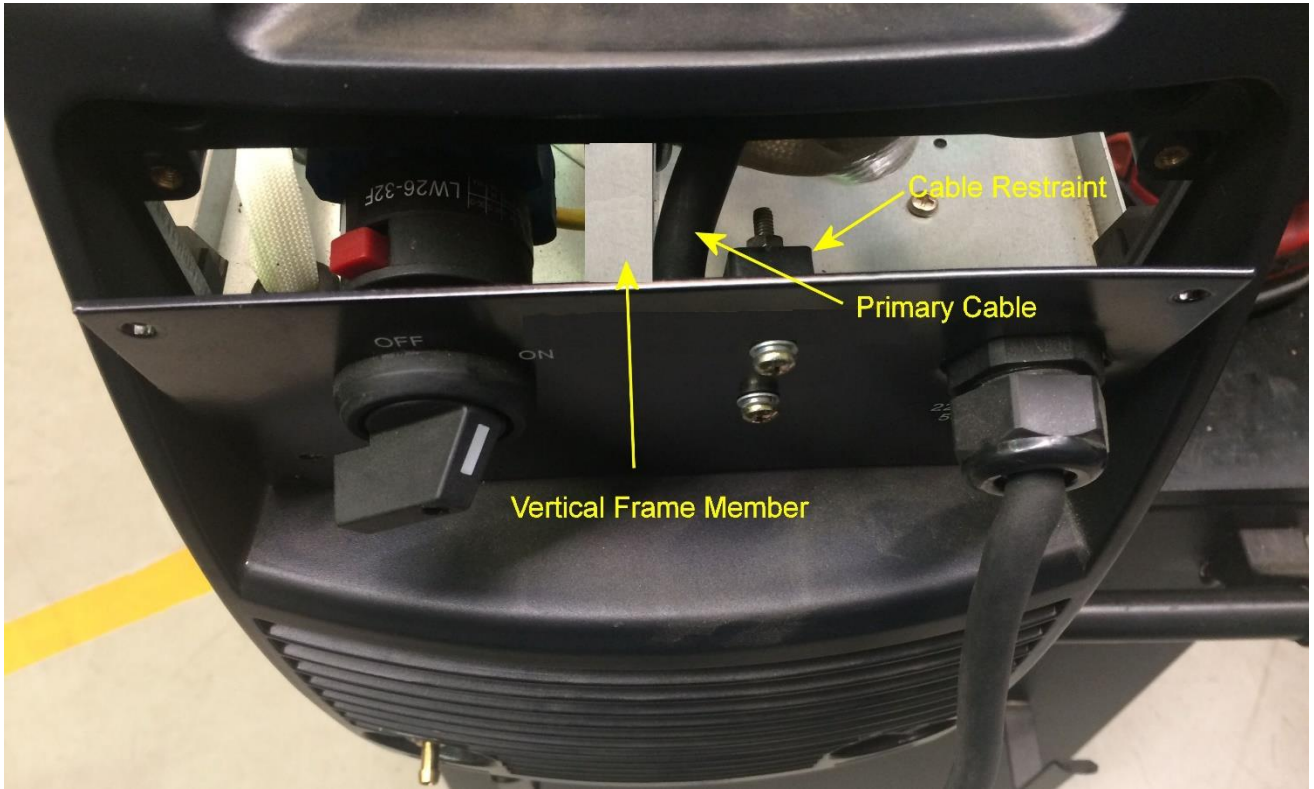
The information provided in this sheet is accurate and reliable, however no warranty of accuracy or reliability is given and no responsibility arising in any other ways by errors or omissions is accepted.



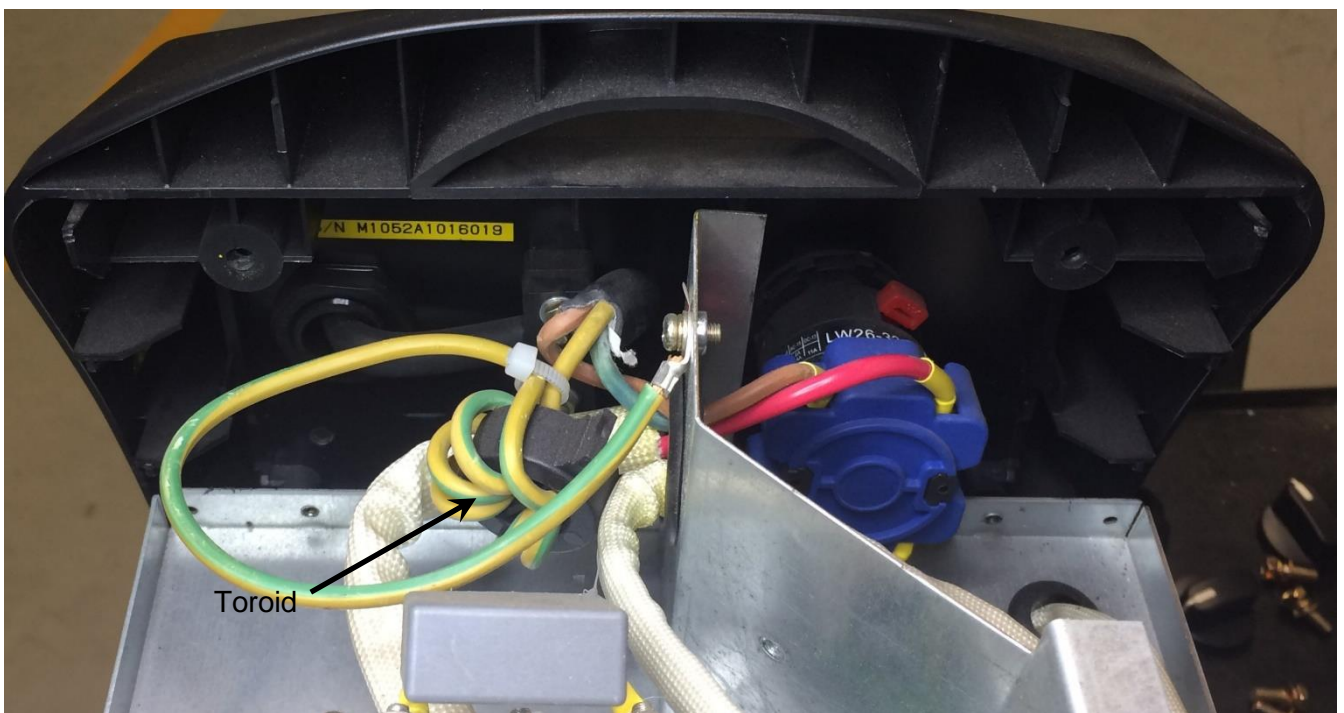
welding.com.au 1300 300 884

Check that the earth wire and toroid are tethered so that they are secure and unable to contact electrically live parts. Tie with cable ties as necessary to achieve this.

Inspection with Cover Plate Removed



Correct Installation of Primary Cable



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