

TFP260 FLOOR PLANER & TCG250/500 FLOOR GRINDER

VOLTMETER FITTING INSTRUCTIONS



VOLTMETER FITTING

The following instructions will enable you to fit the voltmeter assembly to your TFP260, TCG250 or TCG500. If you encounter any problems, please contact us.

Tools required:

- Flat Head Screwdriver
- 3mm Steel Drill Bit
- 22mm Steel Drill Bit
- 2.5mm Allen Key
- Pozi Head Screwdriver
- Phillips Screwdriver
- Sellotape

Fitting instructions:

1. With the Phillips Screwdriver remove the 6 screws holding the control box lid to the main box. (FIG. 1)
2. Cut out and place the drilling template on the top face of the lid. Secure with Sellotape. (FIG. 2)
3. **Optional:** using the 3mm drill bit, drill a pilot hole on the crosshair on the drilling template. This could aid accuracy for the next step.
4. Using a 22mm drill bit carefully drill the hole as per the markings on the drilling template. (FIG. 4)
5. Remove the drilling template from the control box lid.
6. Remove the blue or black din rail spacers from the din rail bar. (FIG. 6)
7. Slide fuse holder off the din rail and push to one side.
8. Using a Pozi Head Screwdriver unscrew the 2 screws on the black connector which is fitted to the MCB unit. (FIG. 8)
9. Unscrew isolator switch from the main chassis frame. The isolator switch and rod can then be removed from the control box and frame. (FIG. 9)
10. **Optional:** Unclip the coil from the Contactor to allow extra working space.
11. Using the flat head screwdriver push the MCB unit to the right-hand side. This releases the MCB from the din rail. (FIG. 11)
12. Carefully pull the MCB unit towards you and out of the control box housing.
13. Using the 2.5mm Allen key unscrew the contactor mounting plate from the control box. (FIG. 13)
14. Carefully pull the contactor mounting plate towards you and out of the control box housing.
15. Remove the locking ring on the voltmeter assembly.
16. Thread the voltmeter cables through the 22mm drilled hole. In the control box lid (FIG. 16)
17. Thread the voltmeter locking ring onto the 2 voltmeter cables and fix in place.
18. Connect one of the voltmeter cables to T2 on the MCB unit (It does not matter which cable is used) (FIG. 18)

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19. Connect remaining voltmeter cable to 1L on the Contactor unit. **(110v UNITS ONLY)** (FIG. 19/20)
or
20. Connect remaining voltmeter cable to T3 on the MCB unit. **(230v & 415v UNITS ONLY)** (FIG. 19/20)
21. Using the 2.5mm Allen key refit the contactor mounting plate to the control box.
22. Refit the MCB unit to the din rail. Clip the left-hand side of the MCB unit too the din rail first.
23. Refit coil to the contactor assembly.
24. Refit the isolator assembly to the control box. Make sure the isolator rod engages in the black plastic switch unit on the MCB. Tighten 2 pozi screws to lock the rod to the MCB. Test to ensure the switch operates correctly. (FIG. 24)
25. Insert fuse holder onto din rail. (on top of MCB)
26. Insert 2 blue/black din rail spacers onto the din rail (on top of fuse holder) (FIG. 26)
27. Using a Phillips screwdriver refit the lid to the control box using the 6 screws.

Machine Testing:

28. The voltmeter will be activated once the Isolator switch is turned to the ON position. (FIG. 28)
29. Check voltage reading is correct. (FIG. 29 - Reading taken from 400v model)

Voltage Tolerances:

Actual supply voltage can vary from region to region. Trelawny recommends the following voltage brackets for its equipment:

110v - 99v min - 121v Max **230v** - 207v min - 253v Max **400v** - 357v min - 440v max

NOTE: These are Approximate voltage ranges, if the number displayed is substantially higher or lower than either end of the voltage range detailed above, then please check your power supply.

Electric Power Supply:

110v MODELS - Use a centre tap transformer with a continuous rated output of 5.0KVA. Do not add an extension lead to the transformer input. The motor requires the minimum of a 32amp, 110v power supply. To avoid Voltage drop Trelawny recommends a maximum cable length of 20m with a core wire size of 4mm² cross sectional area. The use of 2.5mm for 110v machines is not recommended and can cause operating problems, particularly in conjunction with poor supplies, where excessive voltage drops will be encountered and damage to the machine may occur.

230v MODELS - The 230v motor requires the minimum of a 13amp, 220v power supply Trelawny recommends a maximum cable length of 40m with a core wire size of 4mm² cross sectional area.

400v MODELS - The 400v motor requires the minimum of a 10amp, 380v power supply. To avoid Voltage drop Trelawny recommends a maximum cable length of 40m with a core wire size of 4mm² cross sectional area.

Trelawny Approved Extension Cables:

Part Code	Description
669.3121	20m 110v 32amp power cable with sockets
669.3122	20m 230v 16amp power cable with sockets
669.3124	20m 400v 16amp power cable with sockets

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FIG. 1

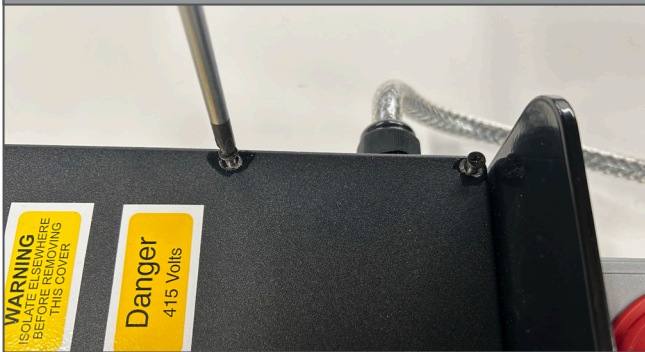


FIG. 2

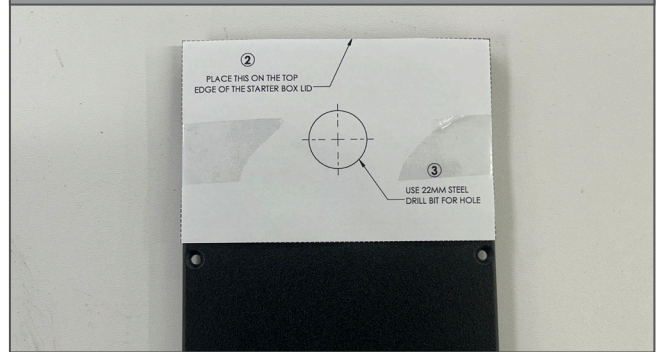


FIG. 4



FIG. 6

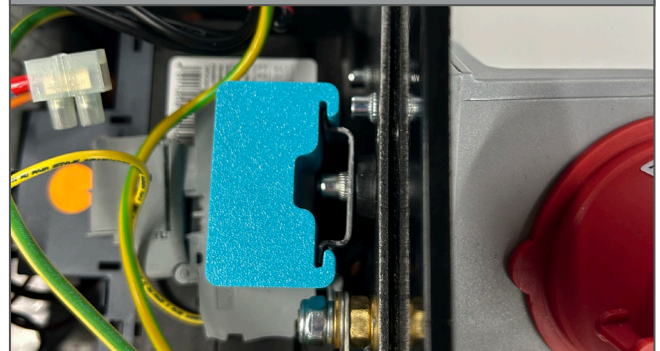


FIG. 8

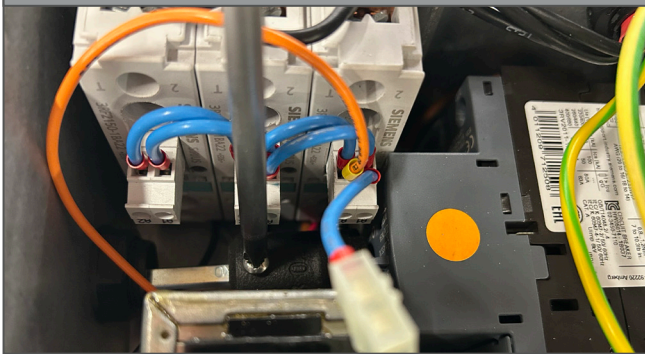


FIG. 9

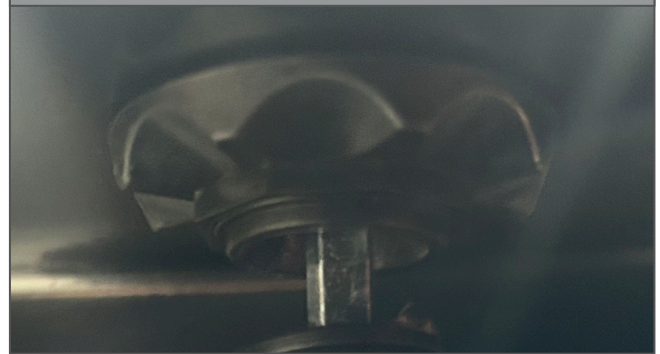


FIG. 11

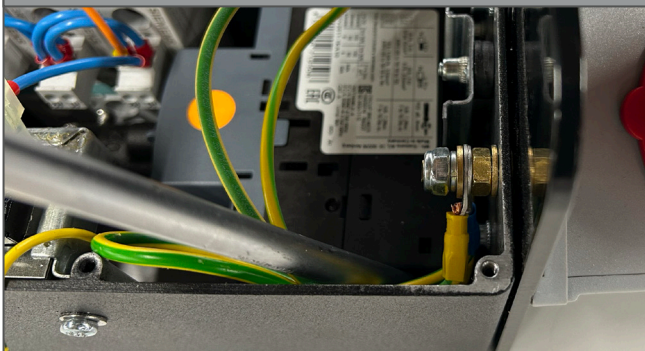
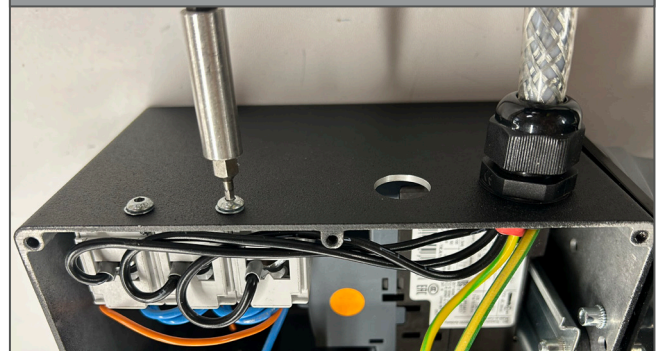


FIG. 13



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FIG. 16



FIG. 18

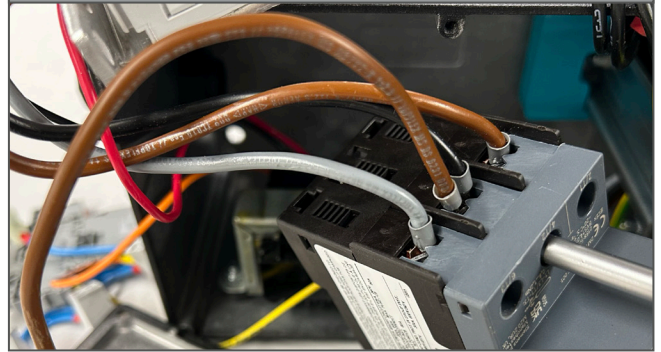


FIG. 19

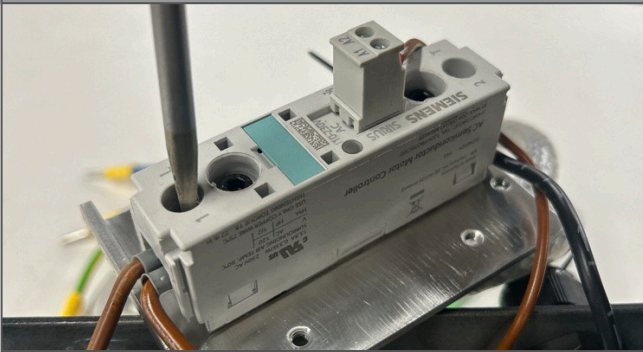


FIG. 20

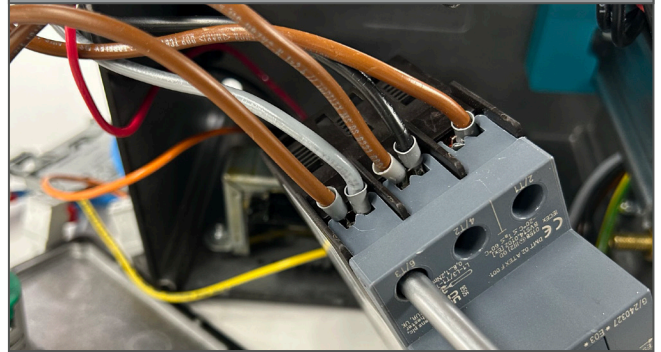


FIG. 24

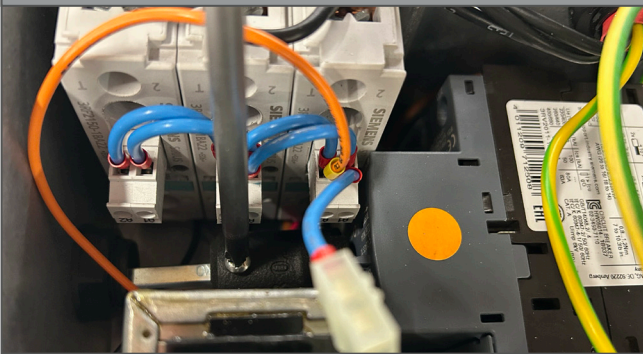


FIG. 26

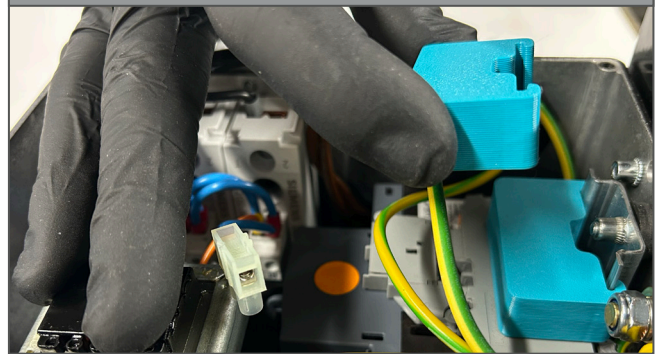


FIG. 28



FIG. 29



THE PERFECT FINISH
STARTS WITH
TRELAWNY



DEALER STAMP:



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