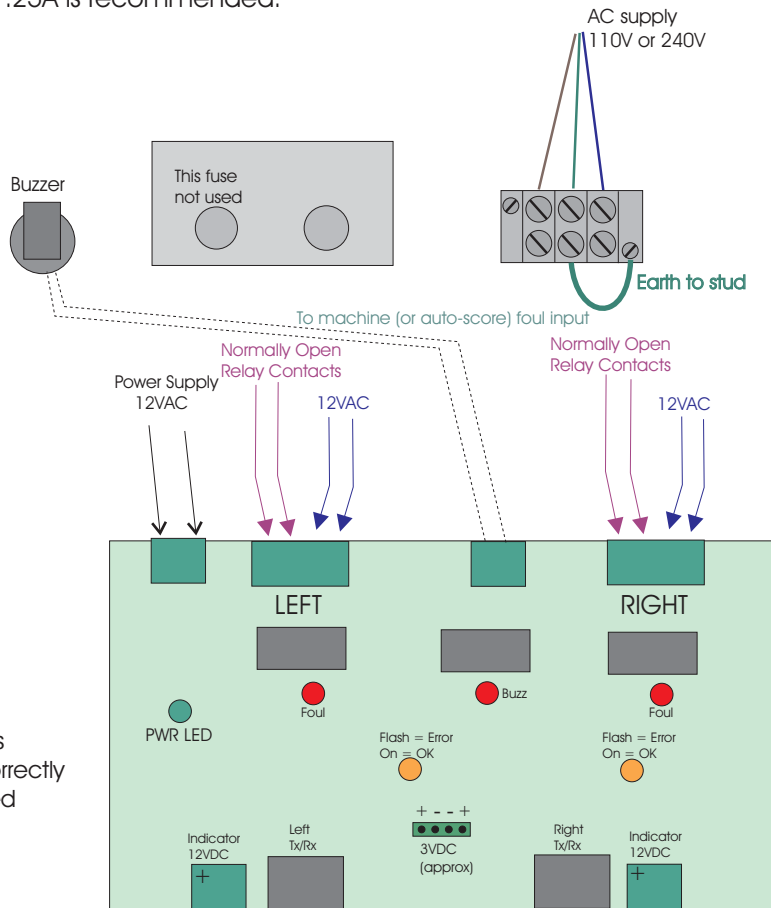


Foul Upgrade Kit

for AMF 82-120 units

Turn off power and ensure it cannot become live while you are working on the unit

1. Disconnect power wires, machine foul wires and wires to photocells.
2. Remove screws securing unit to approach and lift out foul unit.
3. Remove circuit board, connector, pcb insulator, lamps, brackets, lenses and anything else that might get in the way.
4. Check that transformer and terminal block are in good condition and mounted securely.
5. Use template provided on **PAGE 3** to mark the required holes and then drill to the diameter shown on the template.
6. The holes from where the lenses have been removed need to be enlarged to 16 to 20mm to allow the infra-red transmit/receive to function properly. Take care not to leave sharp edges after drilling.
A speed drill bit is ideal for this job.
7. Check condition of fuse and fuse-holder. Replace if damaged. The existing fuse can be used if it is in the range 1 to 1.5A. 1.25A is recommended.

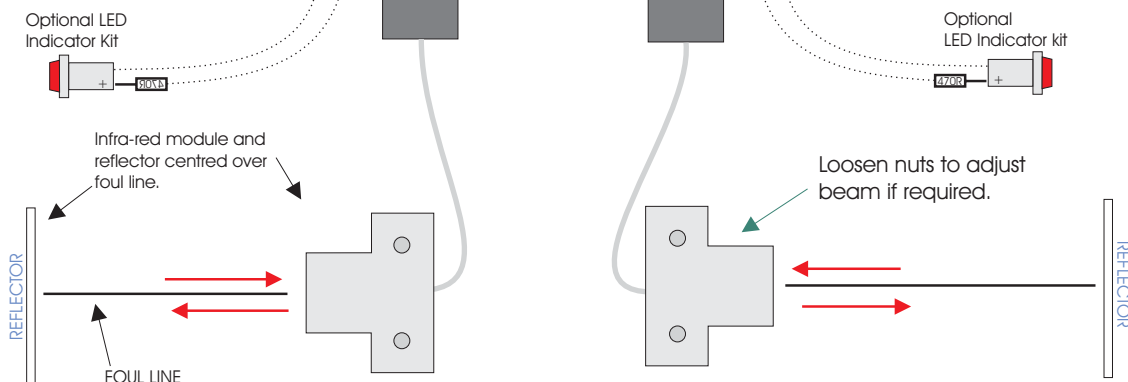


The 4 pin plug supplies both 12VAC and a switched NO relay contact.

Use whichever your machine and/or scoring system requires.

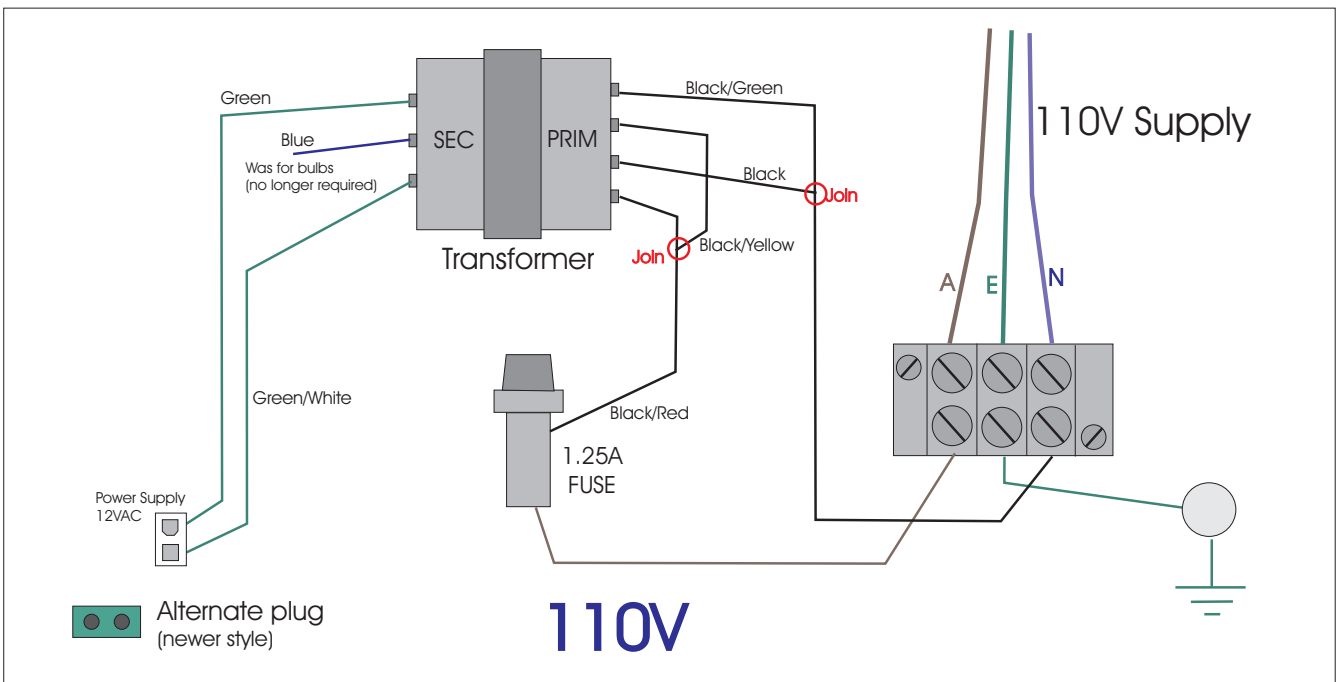
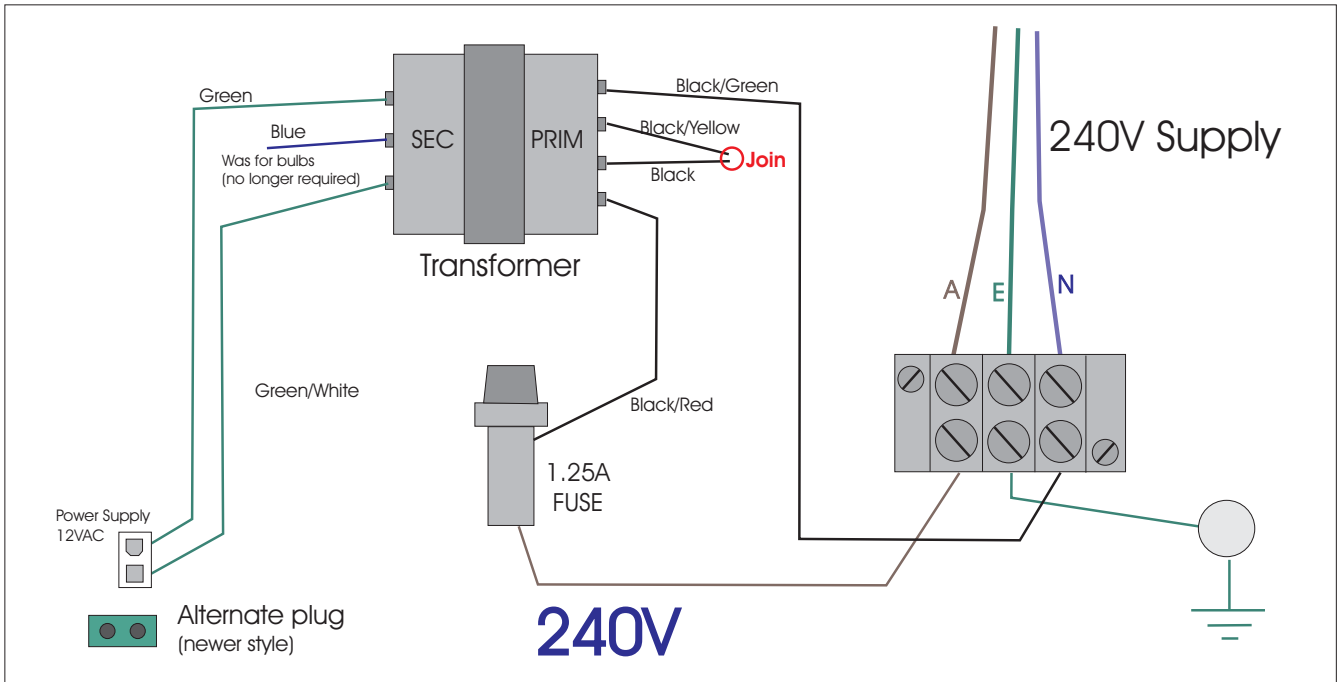
NOTE
New software - AMBER LEDs
Flash fast when aligned correctly
Flash Slow when not aligned

Optional LED indicator connectors:
OLDER style - 2 separate 12VDC connectors on the outboard sides of the TX and Rx connectors
NEWER style - one 3VDC connector towards the centre of the board



8. Complete the 240V or 110V wiring using the diagrams below as a guide.

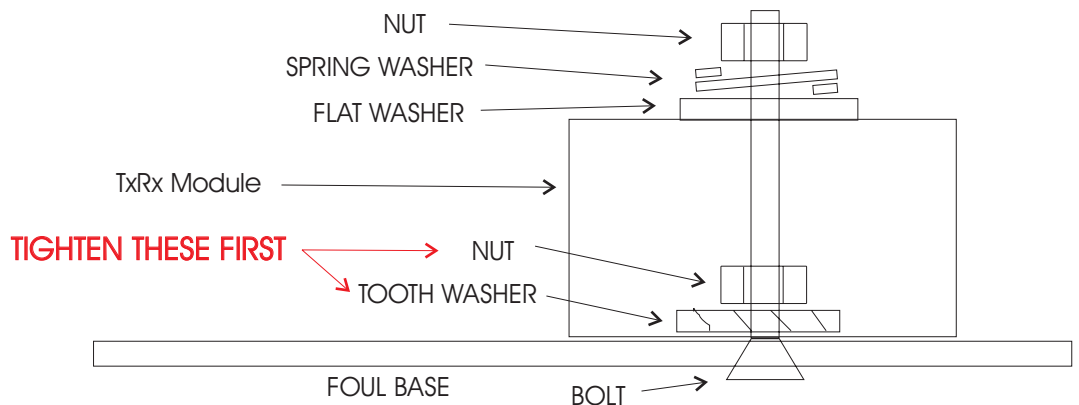
9. Connect the 12V wires from the transformer into the supplied 2 pin plug for power to the circuit board.



10. Fit the 6 plastic PCB support posts to the new 6mm holes in the base plate.

This step is not necessary where self-adhesive pcb supports are used

11. Fit the 4 M4 x 60mm screws to the baseplate and secure with nuts. (See diagram below)



12. Fit the circuit board in place over the plastic PCB support posts. This step is not necessary where self-adhesive pcb supports are used
13. Fit the infra-red modules in place over the 4 M4 screws (which were previously installed and tightened in STEP 11) and lightly secure in place with nuts and washers.
14. Plug infra-red modules into the circuit board.
15. Re-install foul unit onto approach.
16. Connect machine wires to terminal blocks on circuit board. (See diagram on page 1).
17. Plug 12V power plug into circuit board.
18. Connect 240V or 110V power wires to terminal block.
19. Double check all connections.

Fitting Reflectors.

20. Remove cover over small capping to expose receiver photo cells.
21. Disconnect and remove photocell and carrier.
22. Fit reflector in place to align behind hole in cover.
23. Remove glass lens from cover (if fitted).
24. Replace cover and secure.

Finally.

25. Turn on power supply.
26. The GREEN power LED should be ON.
The 2 AMBER LEDs will be FLASHING FAST if the corresponding infra-red module is aligned.
The AMBER LED will be FLASHING SLOWLY if the module is not aligned properly.
27. If one or both AMBER LEDs are flashing, loosen nuts holding infra-red module and move slightly to enable infra-red beam to reflect back to the module. Tighten down modules when beam reflection is established.

USE BOTTOM OF THIS PAGE AS A TEMPLATE FOR THE IR MODULE MOUNTING HOLES

