

Parts Replacement (Premier and Pro Counters).

IMPORTANT- all repairs must be carried out with the mains electrical supply disconnected and by a competent person. Failure to do so may invalidate the warranty.

1.1. Access To Electrical Connections All Models.

Remove the front cover containing the controller, firstly remove the two screws at bottom of the cover and then using both hands and with a sharp forward motion pull it away from the front of the cabinet. Once it is disengaged from the cabinet, unplug the ribbon cables from the Power Switching Unit (PSU) (see Fig 1)
Remove the cover and place it in a safe place to avoid damage.

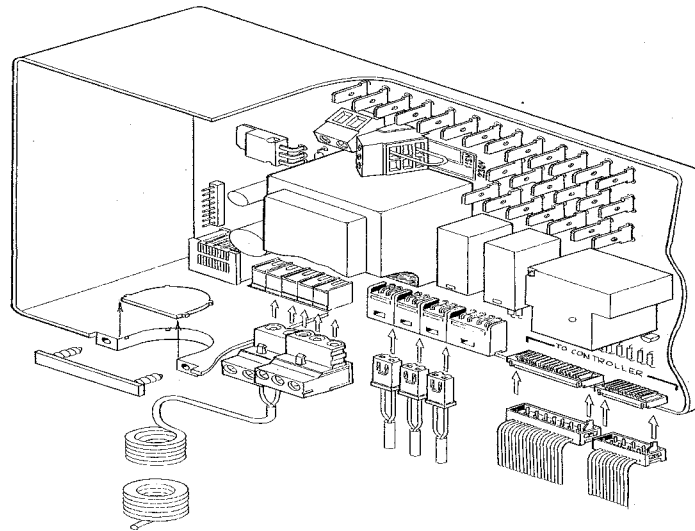


Fig 1. Power Switching Unit.

Remove the screws securing the PSU to the plate, attached to the top of the condenser, to gain access to the electrical connections. See Fig 1.

To replace reverse the procedure ensuring that the PSU lid is fitted correctly and plug in the ribbon cables. Refit the unit cover ensuring it is firmly located onto the retaining studs and refit the screws.

1.2 Controller Replacement All Models.

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1. Release the six retaining clips holding the controller in place and slide the complete assembly through the aperture in the unit cover.

For replacement reverse the procedure ensuring that the retaining clips are fully depressed securing the controller firmly into place.

With the new controller in place refer to the Controller Operating Instructions for the correct model settings.

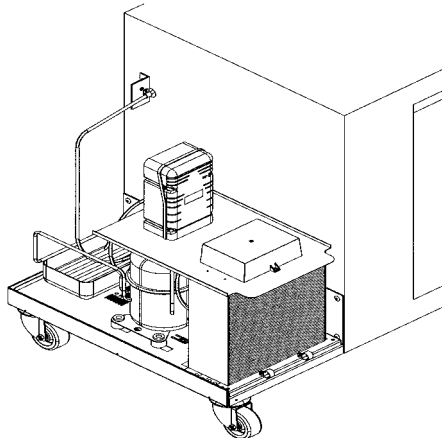


Fig 2 Typical condensing unit in the closed position.

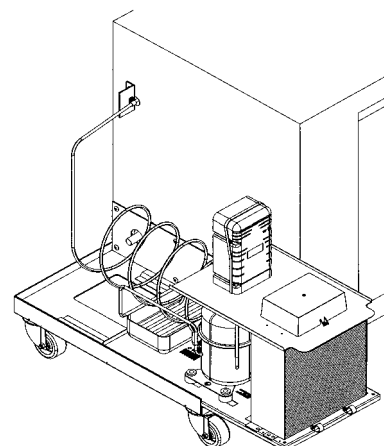


Fig 3 Typical condensing unit extended

1.3 Compressor Replacement.

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

Remove the two screws securing the condensing unit to the frame and by using the two clips attached to the unit, carefully pull the unit assembly forward allowing the suction line coil to expand. See Fig 2 and Fig 3.

Remove the screws securing the plate, complete with the PSU, to the condenser and position it safely.

Note: if the counter is free standing further access can be achieved by removal of the end panel, firstly remove the three screws securing it to the frame at the bottom and then the three screws securing it to the underside of the worktop, remove and position it safely.

Reclaim the refrigerant.

Disconnect all electrical connections.

On satisfactory reclamation of the refrigerant disconnect the pipework from the compressor and tape the ends of the pipes to avoid moisture ingress into the system.

It is important to note that the compressor manufacturer recommend that the replacement should be completed within fifteen minutes to avoid contamination of the lubricating oil due to moisture ingress.

With the pipes disconnected remove the four clips securing the compressor to the base plate and remove.

Fit the anti vibration rubber mounts to the new compressor prior to re-installation.

Place the compressor on to the plate and fit the securing clips.

Remove the tape from the ends of the pipes, connect the pipe work and braze all joints.

It is good refrigeration practice to replace the drier when replacing component parts in the refrigeration system.

Evacuate the system and charge with the correct amount of refrigerant as shown in the technical data.

Reconnect all electrical connections.

Once the system has been recharged with refrigerant check for leaks.

When satisfied replace all components ensuring they are all fitted correctly.

1.4. Condenser Fan Replacement.

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

Remove the two screws securing the condensing unit to the frame and by using the two clips attached to the unit plate and pull it forward. As described in 1.3. See Fig 2 and Fig 3.

Remove the screws securing the plate, complete with the PSU, to the condenser and position it safely.

Remove the lid from the compressor relay box to gain access to the fan motor electrical connections.

Remove the four screws securing the fan grid to the condenser.

To replace reverse the procedure ensuring that the all electrical connections are fully tightened, PSU lid is fitted correctly, and the unit cover is firmly located onto the retaining studs.

1.5. Condenser Coil Replacement.

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

Remove the two screws securing the condensing unit to the frame and by using the two clips attached to the unit plate pull it forward. As described in 1.3. See Fig 2 and Fig 3.

Remove the screws securing the plate, complete with the PSU, to the condenser and position it safely.

Reclaim the refrigerant.

Remove the grid mount fan motor from the condenser as described in 1.4.

On satisfactory reclamation of the refrigerant disconnect the pipework from the condenser and tape the ends of the pipes to avoid moisture ingress into the system.

It is important to note that the change over should be completed within fifteen minutes to avoid moisture absorption into the compressor lubrication oil.

Once the pipes have been disconnected remove the screws securing the condenser to the base plate and remove.

Fit the replacement condenser.

Remove the tape from the ends of the pipes, connect the pipe work and braze all joints.

It is good practice to replace the drier when replacing component parts in the refrigeration system.

Evacuate the system and charge with the correct amount of refrigerant as shown in the technical data.

Refit the fan.

Once the system has been recharged with refrigerant check for leaks.

When satisfied replace all components ensuring they are all fitted correctly.

1.6. Condenser Coil Probe Replacement Premier counters only.

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

Remove the condenser probe from the coil block and unplug the probe wire from the PSU.

Replace the probe ensuring it is held secure in the same place in the condenser and insert the plug in the socket.

On completion replace all components ensuring they are all fitted correctly.

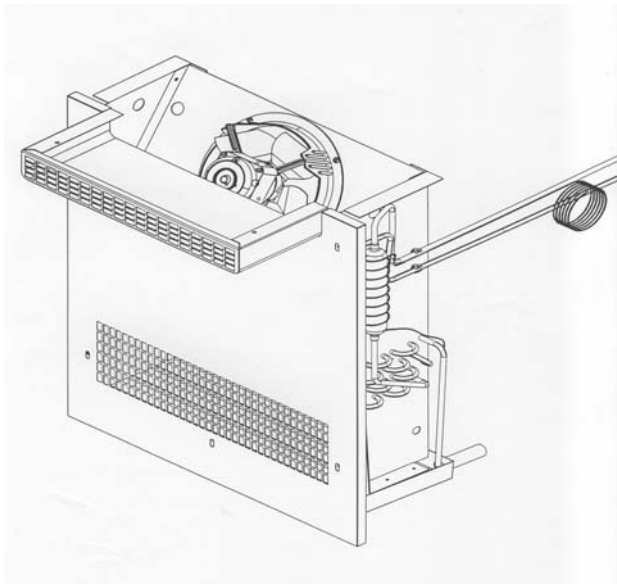


Fig 4 Evaporator front view.

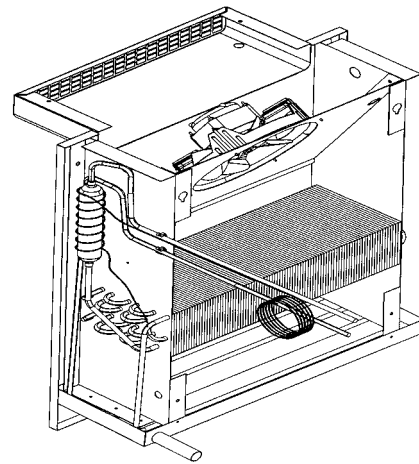


Fig 5 Evaporator rear view.

1.7. Evaporator Fan Motor Replacement.

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

If drawers are fitted refer to 1.18 before proceeding.

Remove the two screws securing the airduct to the roof of the cabinet. See Fig 4 and Fig 5.

Remove the rear ladderack

Remove the five screws securing the evaporator cover plate to the evaporator and remove.

Remove the two screws at the bottom securing the fan plate to the housing and with a downward motion slide it out from the housing.

Remove the four screws securing the fan motor to the plate.

Replace the fan motor ensuring all screws are fully tightened.

Ensure cables are routed correctly.

Reconnect the fan cables to the PSU.

On completion replace all covers and components ensuring they are all fitted correctly.

1.8. Air Probe Replacement.

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

If drawers are fitted refer to 1.18 before proceeding.

Remove the two screws securing the airduct to the roof of the cabinet. See Fig 4 and Fig 5.

Remove the rear ladderack

Remove the five screws securing the evaporator cover plate to the evaporator and remove it.

Release the probe from the retaining clip.

Note: If the end of the probe wire is cut off and the probe end of the replacement attached with tape to the remaining cable this can be used to pull the probe wire through into the unit compartment.

Unplug the probe wire from the socket in the PSU and withdraw the probe.

Refit the probe into the clip ensuring it is attached securely.

Insert the plug in the socket.

On completion replace all covers and components ensuring they are all fitted correctly.

1.9. Evaporator Probe Replacement (when fitted).

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

If drawers are fitted refer to 1.18 before proceeding.

Remove the two screws securing the airduct to the roof of the cabinet. See Fig 4 and Fig 5.

Remove the rear ladderack

Remove the five screws securing the evaporator cover plate to the evaporator and remove it.

Remove the probe from the evaporator.

Note: If the end of the probe wire is cut off and the probe end of the replacement attached with tape to the remaining cable this can be used to pull the probe wire through into the unit compartment.

Unplug the probe wire from the socket in the PSU and withdraw the probe.

Refit the probe into the same place in the evaporator ensuring it is firmly attached.

Insert the plug in the socket.

On completion replace all covers and components ensuring they are all fitted correctly.

1.10. Drain Line Heater Replacement (when fitted).

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.
Remove the two screws securing the condensing unit to the frame and by using the two clips attached to the unit plate and pull it forward. See Fig 2 and Fig 3.
Remove the screws securing the PSU to the plate attached to the top of the condenser to gain access to the electrical connections. See Fig 1.
Proceed to the interior of the cabinet and remove the cover from the evaporator housing as described in 1.8.
Remove the drain line heater from the adhesive tape securing it to the back of the drip tray.
Once released pull the heater through the drain tube into the condensing unit area.
Disconnect the heater cable from the PSU.
For replacement reverse the procedure.
On completion replace all covers and components ensuring they are all fitted correctly.

1.11. Evaporator Coil Replacement.

Remove the front cover containing the controller and disconnect the fan cable from the PSU
If drawers are fitted refer to 1.18 before proceeding.
Remove the two screws securing the airduct to the roof of the cabinet. See Fig 4 and Fig 5.
Remove the rear ladderack
Remove the five screws securing the evaporator cover plate to the evaporator and remove it.
Reclaim the refrigerant.
Disconnect the fan cables from the PSU.
Note: if the counter is free standing further access can be achieved by removal of the end panel, firstly remove the three screws securing it to the frame at the bottom and then remove the three screws securing it to the underside of the worktop, remove and position it safely.
On satisfactory reclamation of the refrigerant unbrazed the capillary from the ¼ copper pipe exiting the drier.
Remove the pipe clip attached to the bracket at the rear of the unit housing.
Cut the suction and hot gas pipes (if fitted) approximately 150mm from the side of the cabinet and tape the ends of the pipes.
It is important to note that the change over should be completed within fifteen minutes to avoid moisture absorption into the compressor lubrication oil.
Remove the two screws at the bottom securing the fan plate to the housing and with a downward motion slide it out from the cabinet.
Remove the air probe from the clip and the evaporator probe from the evaporator.
Release the four screws but do not remove, two at the top and two at the bottom, lift the evaporator upward to disengage the screws from the slots and remove it from the cabinet.
Fit the new coil ensuring the probe wires are inserted through the hole in the end plate ready for refitting.
Lift the coil sufficiently to relocate the screws onto the slots and tighten the screws fully.
Remove the tape from the ends of the pipes, connect the pipe work and braze all joints.
It is good practice to replace the drier when replacing component parts in the refrigeration system.
Evacuate the system and charge with the correct amount of refrigerant as shown in the technical data.
Reconnect all electrical connections.
Once the system has been recharged with refrigerant check for leaks.
Refit the evaporator fan and remake the connections in the PSU
On completion replace all covers and components ensuring they are all fitted correctly.

1.12. Door /Hinge Cartridge Replacement Premier Counters Only.

Remove the large hexagon nut from the hinge cartridge fitted at the bottom of the door.
With the door in the closed position remove one of the screws securing the bottom bracket to the cabinet and slacken the other.
Open the door to 90° angle to the cabinet, support the door with one hand and remove the remaining screw from the bracket. Lower the door sufficiently to disengage it from the top hinge bracket.
Rest the edge of the door on the floor ensuring the edge is protected drill out the rivets securing the cartridge to the door and remove it.
Fit the replacement cartridge using 3/16" pop rivets.
Fit the bottom bracket to the door and secure with the locking nut at a 90° angle to the door.
Raise the door and locate it into the pivot pin in the top bracket, whilst supporting the door with one hand replace one of the screws but do not tighten fully.
Fit the remaining screw close the door and check that it is level with the other door or doors, when satisfied fully tighten the screws.
Check the door for correct closure.
In the event of the door not closing properly or springing open would indicate that the incorrect hinge cartridge has been fitted.
Remove the door and hinge cartridge as previous and fit the correct hinge cartridge.
Check door locks correctly.

1.13. Door Replacement Pro Counters Only.

With the door in the closed position remove one of the screws securing the bottom bracket to the cabinet and slacken the other.

Support the door with one hand and remove the remaining screw from the bracket. Lower the door sufficiently to disengage it from the top hinge bracket.

To replace the door fit the bottom bracket to the door and whilst holding it in place with one hand raise the door and locate it into the pivot pin in the top bracket, replace one of the screws but do not tighten fully.

Fit the remaining screw close the door and check that it is level with the other door or doors, when satisfied fully tighten the screws.

Check the door for correct closure.

Check door locks correctly.

1.14. Door/Drawer Lock Replacement.

Open the door or drawer.

Remove the two fixing screws securing the lock to the door at the rear of the door/drawer.

Extract the lock from the door/drawer.

Fit the replacement lock and secure using the two screws.

Close the door and check alignment with the door lock keeper.

Check it locks correctly.

1.15. Drawer Front Replacement (including chefs drawer).

Slide open the drawer and remove three screws securing the front to the drawer body and release the other.

Support the drawer front with one hand and remove the remaining screw.

To replace the drawer front hold it in place with one hand replace all of the screws but do not tighten fully.

Close the drawer and check that it is level with the other drawers or doors, when satisfied fully tighten the screws.

Check for correct closure.

Check drawer locks correctly.

1.16. Drawer Replacement.

Open the drawer fully to locate the dwell. See Fig 6 and 7.

Remove the drawer front as described in 1.15.

Position the bottom nylon bearing against the slot in the top drawer runner, lift the drawer sufficiently to disengage it from the runner and lift it out from the cabinet.

If the drawer runners are to be reused drill out the rivets, fit the runners to the drawer using 3/16 rivets ensuring that the rivets used do not effect the opening and closing of the drawer.

Refit the drawer in to the cabinet by pulling out the drawer slides to there full extent, place the drawer runners onto the slides, slide the drawer along the runner until the nylon bearing is adjacent to the slot and lower into place.

Check for ease of movement.

Refit the drawer front as described in 1.15

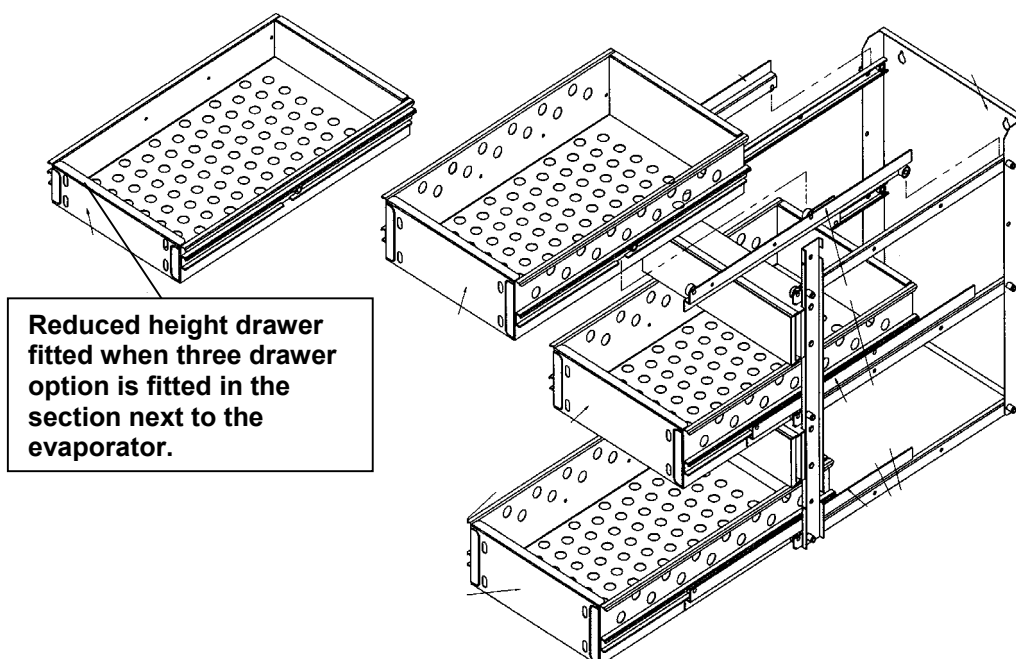


Fig 6 Three Drawer Option.

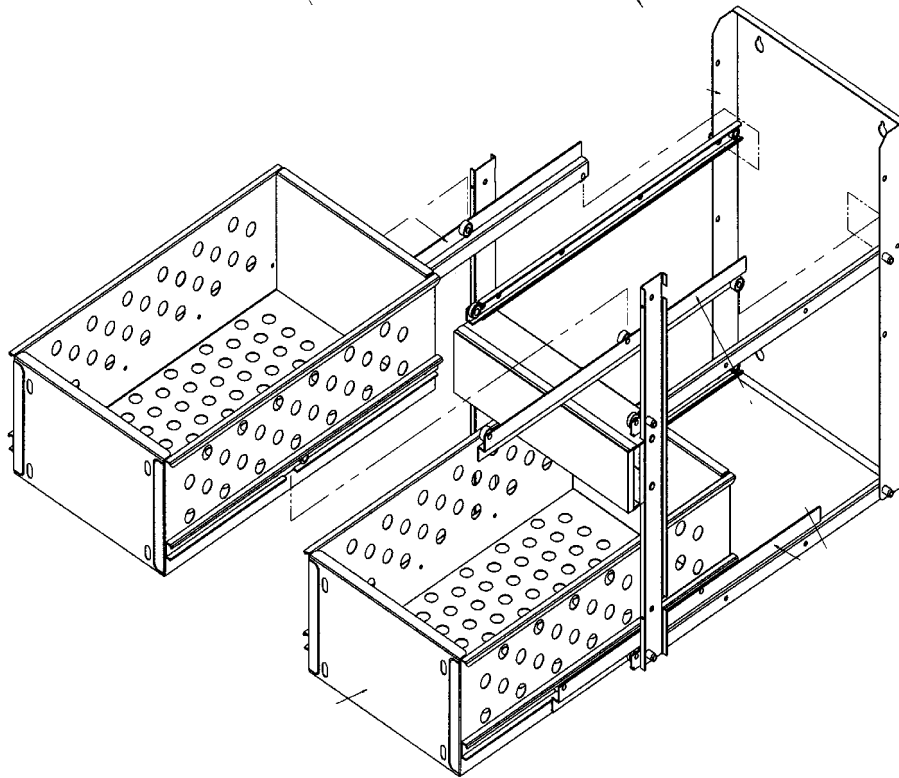


Fig 7 Two Drawer Option

1.17. Drawer Slide Replacement.

Open the drawer fully to locate the dwell. See Fig 6 and 7.

Remove the drawer front as described in 1.15.

Position the bottom nylon bearing against the slot in the drawer slide, lift the drawer sufficiently to disengage it from the slide and lift it out from the cabinet.

Once the drawer is removed from the cabinet remove the drawer slide by rotating into the cabinet area unclipping it from the cabinet runner.

Remove the screws from the cabinet runners securing them to the cassette frame.

Using the same screws fit the replacement slides ensuring the screws are fully tightened.

Position the drawer slide nylon bearing into the cabinet runner towards the rear and rotate to clip it in to the runner, check for easy running.

Drill out the rivets securing the runners to the drawer.

Fit the replacement runners to the drawers using 3/16 rivets ensuring that the rivets used do not effect the opening and closing of the drawer.

Refit the drawer in to the cabinet by pulling out the slides to there full extent, place the drawer runners onto the slides, slide the drawer along the runner until the nylon bearing is adjacent to the slot and lower into place.

Check for ease of movement.

Refit the drawer front as described in 1.15.

1.18. Drawer Cassette Removal.

Remove the drawers from the cabinet. See Fig 6 and 7.

Open the drawer fully to locate the dwell.

Position the bottom nylon bearing against the slot in the drawer slide, lift the drawer sufficiently to disengage it from the runner and lift it out from the cabinet.

Remove the four screws, two each side, securing the front of the cassette to the cabinet.

Remove the two screws, one at the top centre and one at the bottom centre of the cassette back plate.

Slacken the four remaining screws, one in each corner.

Lift up the assembly at the rear to disengage the screws from the slots and slide it out from the cabinet.

For replacement reverse the procedure ensuring that the spacers are inserted in to the slots in the front supports and all screws are fitted and fully tightened.

Refit the drawer in to the cabinet by pulling out the drawer slides to there full extent, place the drawer runners onto the slides, slide the drawer along the runner until the nylon bearing is adjacent to the slot and lower into place.

Check for ease of movement.

Refit the drawer front as described in 1.15

1.19. Chefs Drawer Replacement.

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

Open the drawer and remove the drawer front as described in 1.15.

Depress the two plastic retaining clips located at the front of the drawer between the top of the slide and the top of the drawer and lift out the drawer.

If the drawer runners are to be reused drill out the rivets, fit the runners to the drawer using 3/16 rivets ensuring that the rivets used do not effect the opening and closing of the drawer.

Refit the drawer in to the cabinet by pulling out the cabinet runners to there full extent.

Place the drawer runners onto the cabinet runners, slide the drawer along the runner until the plastic retaining clips are adjacent to the slots in the drawer runner, lower into place ensuring they are firmly attached.

Check for ease of movement.

Refit the drawer front as described in 1.15

1.20. Chefs Drawer Runner Replacement.

Open the drawer and remove the drawer front as described in 1.15.

Depress the two plastic retaining clips located at the front of the drawer between the top of the slide and the top of the drawer and lift out the drawer.

Once the drawer is removed from the cabinet remove the screws from the cabinet runners securing them to the cabinet.

Using the same screws fit the replacement slides ensuring the screws are fully tightened.

Drill out the rivets securing the runners to the drawer.

Fit the runners to the drawer using 3/16 rivets ensuring that the rivets used do not effect the opening and closing of the drawer.

Refit the drawer in to the cabinet by pulling out the cabinet runners to there full extent.

Place the drawer runners onto the cabinet runners, slide the drawer along the runner until the plastic retaining clips are adjacent to the slots in the drawer runner, lower into place ensuring they are firmly attached.

Check for ease of movement.

Refit the drawer front as described in 1.15

1.21. Door Frame Surround Heater Replacement all models.

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

Open the door to expose the black plastic door frame surround.

Firstly remove the cover strip on the sides using a pallet knife. See Fig 8.

Completely remove the side strips and then proceed to remove the top and bottom cover strips.

Insert a 4mm Allen key behind the cover strip in the corner and prise it off. See Fig 9

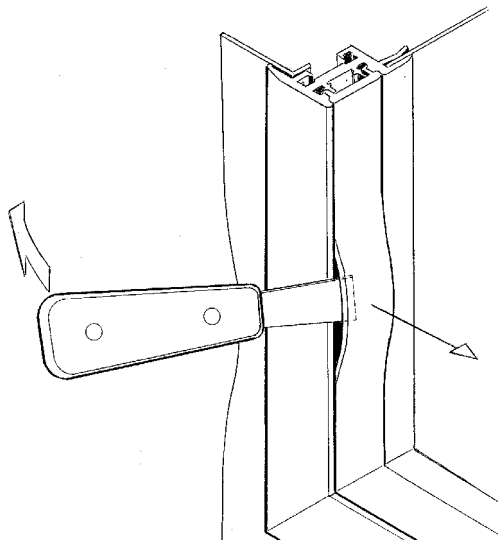


Fig 8.

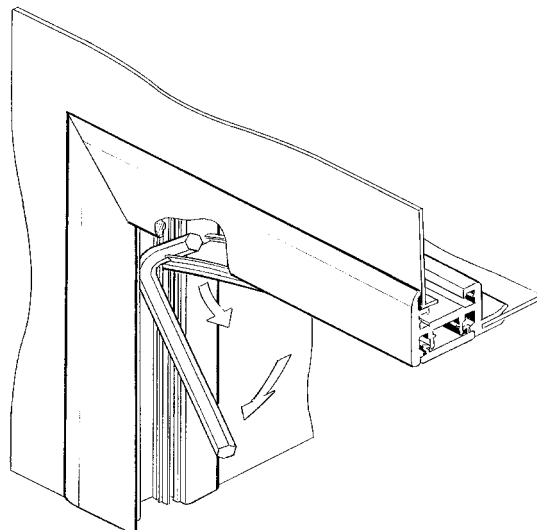


Fig 9.

Once the strips have been removed ease out the heater wire from the groove in the thermal brake.

Separate the two halves of the white connector block. See Fig 10.

Disconnect the cables and remove the Heater.

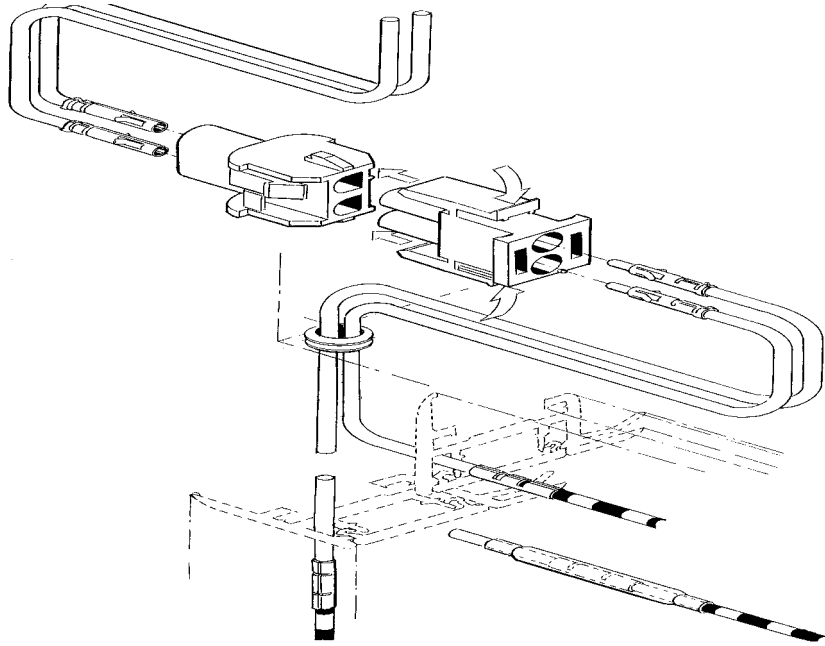


Fig 10.

Replace the heater.

Pass the heater cable ends through the extrusion into the area containing the PSU.

Replace the black plastic cover strips to the door frame surround.

Insert the ends of the cables into the white plug provide ensuring they are full located.

Plug the white socket into the plug.

On completion replace all components and covers ensuring they are fitted correctly.

1.22 Worktop Replacement

Remove the front cover containing the controller and disconnect the ribbon cables as described in 1.1.

Remove the three screws securing the side panel to the worktop and the three screws securing the side panel to the condensing unit frame.

Remove the four screws, two in each bracket, securing the worktop to the cabinet.

Remove the slotted screws found in the compartment furthest away from the evaporator.

Remove the worktop.

Note: For models with three or four doors it is recommended that two persons should lift the worktop to avoid accident or injury.

For replacing reverse the procedure ensuring the worktop is level with the back and sides and all screws are fully tightened.