

R08 -1920RS Toilet Cubicles & 645 Kitchen



Manual

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To Switch The Cubicle On:

Engage the WC Master switch on the dashboard. The cubicle interior lamp will turn on for 30 seconds and the vacant lamp will come on after 1 minute. The cubicle is now ready to use. (It is recommended that the vehicle engine is running)

Cubicle Interior Light:

On entry, the interior lamp will come on automatically and illuminate the "Occupied" lamp. The interior lamp is controlled by a movement sensor which will switch off the light automatically shortly after the cubicle is vacated and illuminate the "Vacant" lamp.

To Flush The Toilet:

Push the flush button once to flush the toilet with a set quantity of water. Should a further flush be required, wait for the flush cycle to complete then press the button again.

(When the holding tank is full, the dashboard LED will illuminate and the "Occupied" lamp will signal. The toilet is now out of use until the holding tank is emptied.

(When the clean water tank is empty the dashboard LED will illuminate and the "Occupied" lamp will signal. The toilet is now out of use until the water tank is re-filled.)

To Wash Your Hands:

Depress the handwash button once to dispense a set amount of water.

(When the handwash tank is empty the dashboard LED will illuminate to alert the driver..)

In Case of Emergency:

Depressing the red alarm button will alert the driver and sound a buzzer.

Cubicle Extractor Fan:

The ventilator fan runs at half speed when the cubicle is vacant and switches to full speed when the cubicle is occupied.

Water Tank Filling & Emptying

Tanks are filled via the hose connectors located in the side locker. The holding tank is emptied by pressing a button behind the locker door beneath the cubicle, which operates a pneumatic valve. This must be operated with the parking brake ON.

To Switch The Kitchen On:

Engage the Kitchen Master switch on the dashboard. The kitchen lamp will turn on, the boiler LED panel will light and fridge fan will start. (It is recommended that the vehicle engine is running)

Kitchen Hot Drinks System:

The water heater will take 20-30 minutes to reach temperature and the hot faucet should start to drip. This is due to the expansion inside the boiler as it gets hot. The LED display panel "Drinks" light will also come on.

To dispense the hot water, place a cup inside the sink, push and hold the RED button until finished.

Kitchen Cold Drinks System:

The cold-water chiller is located inside the fridge this means that when the fridge is cold, the water inside the chiller is also cold.

To dispense the cold water, place a cup inside the sink, push and hold the BLUE button until finished.

(When the drink water tank is empty the dashboard LED will illuminate and the kitchen drinks facility will not work until the drink tank is re-filled.)

Lockable Storage:

The storage cupboard has been designed to hold coffee, tea and sugar sachets with a pot for stirers.

Coolbox - Fridge:

The coolbox will take approximately 2 hours to get to 5 Deg C from warm but can go as low as 3 Deg C during operation. This time depends on the contents of the fridge and the times are based on it being empty. For best performance it is advisable to introduce pre-chilled items into the fridge.

The unit is equiped with an 'ECO' mode which allows the unit to run on low power when the vehicle is switched off and this can maintain a steady 5 Deg C.

The battery guard will detect low voltage in 'ECO' mode and cut power to the unit saving the batteries.

Cubicle Cleaning

The cubicle is manufactured from Glass Reinforced Plastic (GRP) with high gloss interior and lightly textured exterior surfaces. This surface finish is delicate and must only be washed down using a mild detergent. The use of a caustic or abrasive material is not recommended, as this will affect the appearance.

Toilet Bowl Cleaning

To protect the finish of the Stainless Steel toilet bowl do not use abrasives of any kind. To clean the bowl, use a mild anti-bacterial detergent and suitable brush.

Litter Bin

The cubicle features a plastic bin located in the sink area. The use of a bin liner is recommended.

Soap Dispenser

To fill the dispenser, unlock the mirror cabinet, lift the lid of the dispenser and fill with liquid soap.

Toilet Roll

It is recommended that a high biodegradable paper is used at all times.

Domestric grade toilet paper is not recommended as this can block the system.

The toilet roll is located inside the lower vanity door. Unlock and open the door, slide the roll onto the spindle.

Daily Routine

- Prior to the vehicle entering service the holding tank should be charged with an additive to sanitise the effluent.
- The recommended product is Shades Super Sani ECO, formulated from natural essential oils, this formaldehyde-free formula is contained within a water soluble membrane. A single 16 gram sachet contains the recommended dosage for 110 litre capacity holding tank and will function for a maximum of three days.

To apply:

- 1. Ensure the holding tank is empty.
- 2. Check the tank evacuation valve is closed
- 3. Check the WC clean water tank is full.
- 4. Switch on power to the cubicle (see page 3)
- 5. Press the flush button to open the toilet valve and drop the complete sachet into the bowl.

Caution Do not open the sachet.

- It is recommended that the WC supply tank is drained and the holding tank is emptied at the end of every day.
- The daily addition of a couple of drops of mild detergent into water resting in the toilet bowl will lubricate the slider and protect the seal.

Weekly Routine

- Check extractor fan function.
- Inspect the security of the faucet, door hinges and toilet seat. Check the operation of the cubicle door and lock function. Test alarm button and buzzer function.
- Open vanity door, check electrical and plumbing connections for security and leaks.
- Check water flow to the hand basin is smooth and constant.

Quartely Routine

- Flush out holding tank with clean water. (the holding tank must be empty and the vehicle positioned so that the holding tank evacuation valve is over a sewage drainage point)
- The two cubicles are fitted with a high-pressure 360 degree washer jet and can
 be activated by attaching a hose pipe. The connections are next to the tank filler
 inlets behind a rear locker door and a hose runs to each tank jet. It is
 recommended that the hose is left on full for 2 minutes with the waste tank valve
 left open.
- Lubricate holding tank evacuation valve. (to be carried out immediately after flushing through the holding tank).
 Undo the four fixing bolts holding the soil valve assembly together and remove the main body section. Lubricate the slide paddle using lithium grease or similar so the open/close operation is smooth. Replace the valve body and bolt together.
 Do not over tighten as this will restrict the operation of the valve.

If the vehicle is to be parked in zero or sub-zero temperatures, it is imperative that all water containers are completely drain beforehand.

Note

No warranty claims will be accepted on any winter damaged parts.

Jump Starting

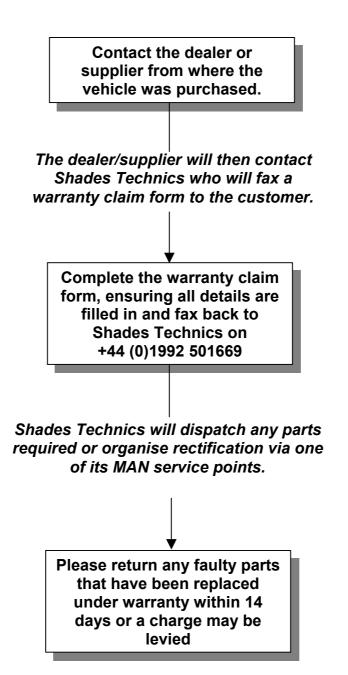
When jump starting the vehicle, please ensure that the dashboard master Switch, **WC**, is off!

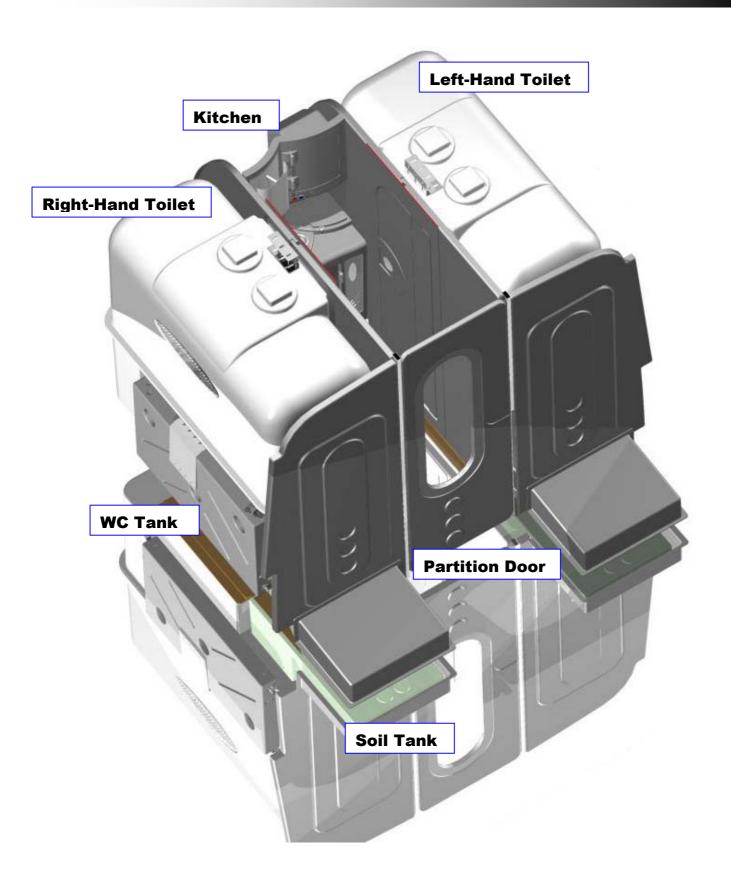
Fault Reporting Procedure

- 1. Should a system fault occur, we recommend checking the fault analysis flow charts at the end of this manual.
- 2. Using these charts, determine the cause of the fault and replace the faulty item from the kit if possible.
- 3. To order a replacement kit or non-kit part contact the dealer as specified on the contents page (Page 2) of this manual, quoting the cubicle serial number.
- 4. In order for replacement goods to be dispatched a simple warranty procedure must be followed.

Notes:

 Tampering, unauthorised involvement or preventable damage will result in a charge being levied Shades Technics offer a comprehensive warranty cover for all products, valid for 24 months from the vehicle's date in service.







Sprung Door Hinge Cat No: MA661405 Upper Cat No. MA661406 Lower



Sprung Door Hinge Cover Cat No: MA661407



RH Door Lock Cat No: MA661206

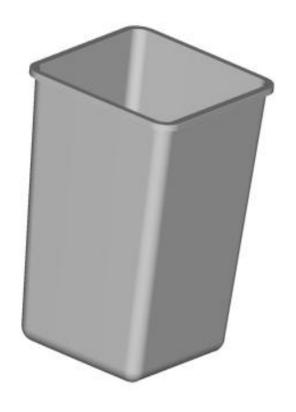


Coat Hook

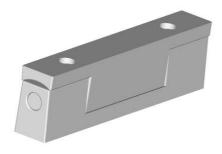
Cat No: MA661030



Clear Buffer Cat No: MA713515



Litter Bin Cat No: MA661040



Edgemount Hinge Cat No: MA661410



Faucet

Cat No: MA663607



Floor/Sink Drain Cat No: MA701550



Flush/Hand Wash Button Cat No: MA714007



Flush/Hand wash Button Cat No: MA714007



Alarm Button Cat No: MA714030



Toilet Roll Holder Cat No: MA661616



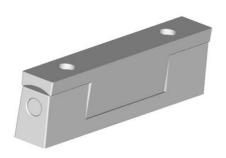
Black Screw Knob Cat No: MA663408



Happich Lock Cat No: MA661217



Litter Bin Knob Cat No: MA661214



Edgemount Hinge Cat No: MA661410



Clear Buffer Cat No: MA713515



Soap Dispenser Cat No: MA661660



Happich Lock Cat No: MA661217



Hand Dryer Cat No: MA661800

Cubicle Upper Vanity Spares



Vanity Mirror Cat No: MA661818



Door Catch Cat No: MA663958



Hand Dryer Button Cover Cat No: MA661805





Bayonet Bulb Cat No: MA712028

Bulb Holder Cat No: MA712027







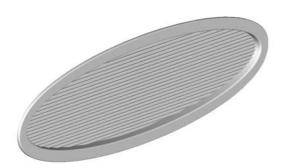


Ventilator Fan Cat No: MA727500

Nylon Screw Cat No: MA713151

Seat Stopper Cat No: MA713500

Terry Clip (pump) Cat No: MA713285



Window

Cat No: MA661050



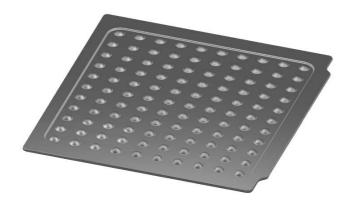
210mm Grab Handle Cat No: MA661165



Hand Wash Pump Cat No: MA702110



Flush Pump Cat No: MA702180



Rubber Floor Mat Cat No: MA661476

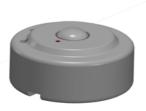


Fan Cover Cat No: MA661477



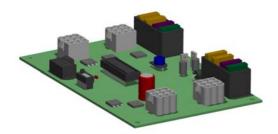
Lamp Cover Cat No: MA661478





PIR Sensor Cat No: MA712025

610mm Grab Handle Cat No: MA661160









Cubicle PCB

Cat No: MA730616

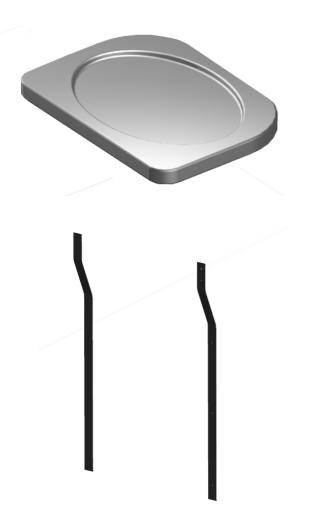
Kitchen PCB

Cat No: MA735650

PIR PCB

Cat No: MA712025

PCB Assembly Cat No: MA730655

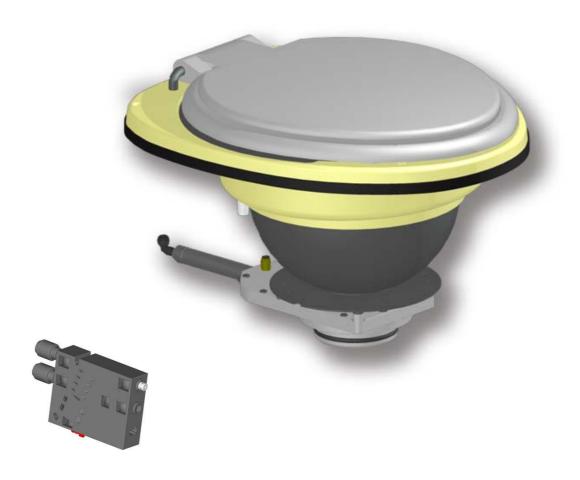


Baby Changer Mattress Cat No: MA661481

Baby Changer Straps Cat No: MA661480



Edgemount Hinge Cat No: MA661410



1	Pneumatic Slide Valve	MA735713
3	Control Box	MA735714
Pne	umatic Slide Valve & Control Box	MA735732
4	Brass Back Nut	MA695504
5	Bowl Jet	MA663603
6	Bowl Overflow	MA701502
7	Splash Shield	MA661986
8	Stainless Steel Seat Hinges	MA735102
9	Toilet Seat and Lid	MA735101
10	WC Bowl Assy	MA688221



WC Freshwater Tank Cat No: MA733038

WC Freshwater Tank Assy RH Assy = Cat No: MA733032 LH Assy = Cat No: MA733033

Elbow ¾" x ¾" Tank Fitting Cat No: MA744003



21.5mm x ¾" Elbow Cat No: MA744002

½"BSP Hose Barb Con Cat No: MA747032

Horizontal Float Switch Cat No: MA714510

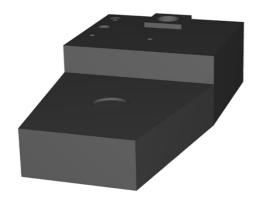




Hatch Cover Cat No: MA732051



½" Potable Hose Cat No: MA744030



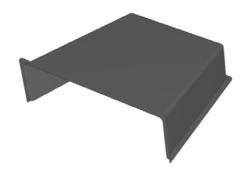
Soil Tank

RH = Cat No: MA733028 LH = Cat No: MA733029

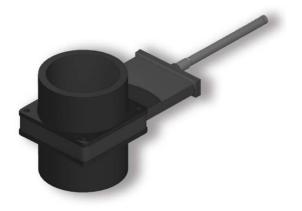
RH Assy = Cat No: MA733030 LH Assy = Cat No: MA733031



Tank Washer Jet Cat No: MA733035



Soil Tank Cover Cat No: MA733880



Pneumatic Dump Valve Cat No: MA735734

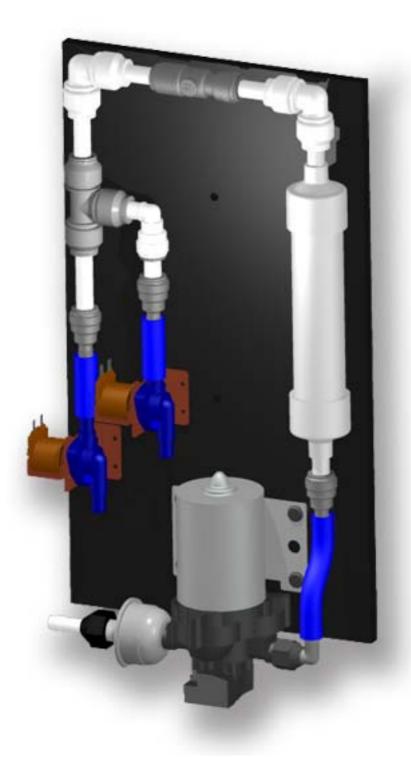


Trolley Assembly Cat No: MA801101

Water Tank with Hatch Cover Cat No: MA733860

See separate sheet for plumbing fittings.

Wheels (pair) Cat No: MA801110



Board Assembly Cat No: MA661700

Hydrofilter (6 month life span)
Cat No: MA722017 (single

ınit)

Cat No: MA722015 (pack of 6)

Solenoid Valve Cat No: MA714620

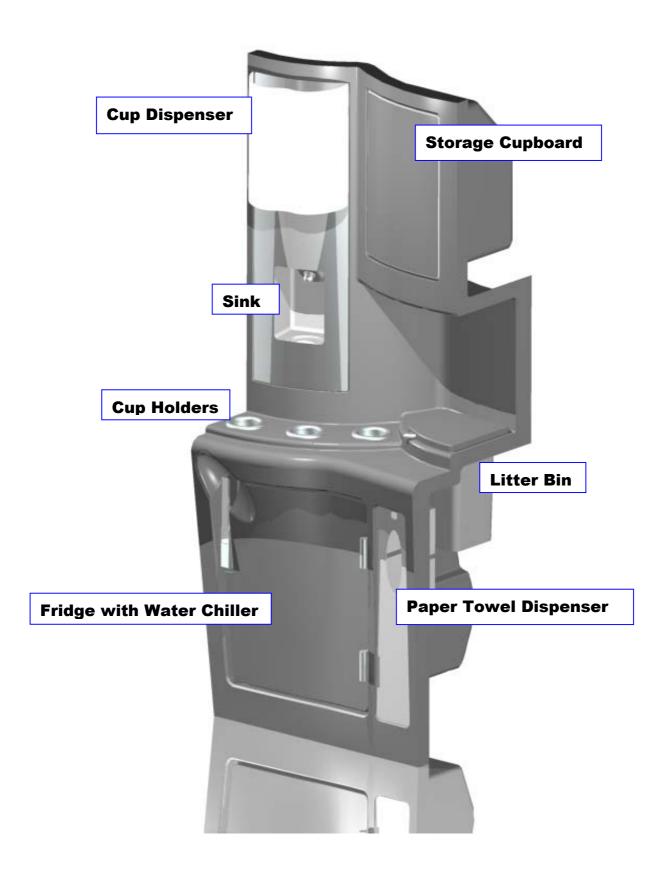
Particle Filter

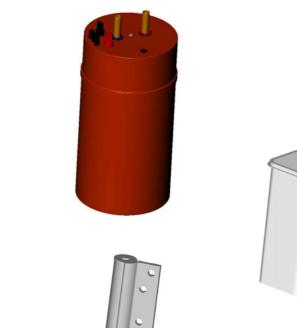
Cat No: MA722025

Drinks Pump

Cat No: MA702016

See separate sheet for plumbing fittings.





HYDROCALOR M500 Water Heater Cat No: MA697010

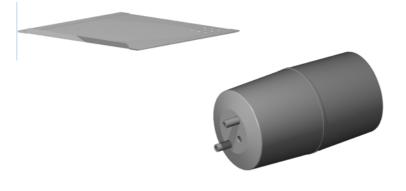
Litter Bin

Cat No: MA661002

SS Sprung Hinge Cat No: MA735104

Fridge Shelf

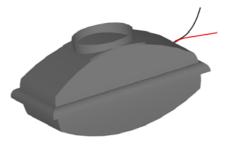
Cat No: MA790660



Water Chiller Cat No: MA790661

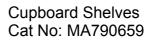
Cup Holder

Cat No: MA790658



Cooling Unit Cat No: MA703108







Fridge Door Lock Cat No: MA663020



Cup Dispenser Cat No: MA790662

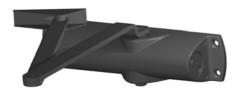
Paper Towel Dispenser Cat No: MA



Kitchen Indicator Panel Cat No: MA712510



Door Push Plate Cat No: MA712025



Door Closer Cat No: MA697010





Door Handle Cat No: MA697010



Knuckle Bend Cat No: MA744120



Shut off Tap Cat No: MA747037



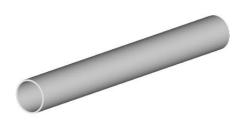
T Push Fit Cat No: MA744121



½" Potable Hose Cat No: MA744030



12-22 Hose Clip Cat No: MA744041



21.5mm Rigid Pipe Cat No: MA747055



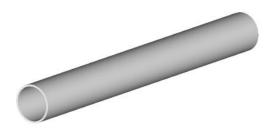
Black End Cap Cat No: MA732061



Tank Connector Cat No: MA732064



Swivel Bend Cat No: MA732063



40mm Pipe Cat No: MA732062



Hose Barb Connector 15mm x ½" Speedfit Cat No: MA747027



15 mm Stem Elbow Connector Cat No: MA744122



15mm Stem Elbow Cat No: MA747016



15mm Equal Elbow Cat No: MA747015



15mm x ¾" BSP Tap Adaptor Cat No: MA747024



15mm T Connector Cat No: MA747020



15mm Male Coupler Cat No: 747028



15mm Drain Valve Cat No: MA747037



15mm Service Valve Cat No: 747035





No Standing Cat No:735560



Emergency Alarm Cat No:735566



No Smoking Cat No:735563



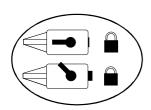
Shades Technics Cat No:735568



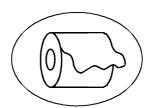
Male Cubicle Cat No:



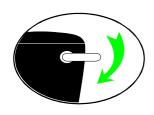
Female Cubicle Cat No:



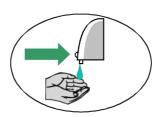
Door Lock RH Cat No:735564



Toilet Roll Cat No:735569



Flush Cat No:735562



Soap Dispenser Cat No:



Hand wash Cat No:735561



Litter Bin Cat No:735567



Baby Changer Cat No:735561

Description

The Toilet Cubicle Control Board is a solid state electronic control unit that manages all toilet cubicle functions. All output devices are short circuit and over-voltage protected for reliability and safety.

Operation

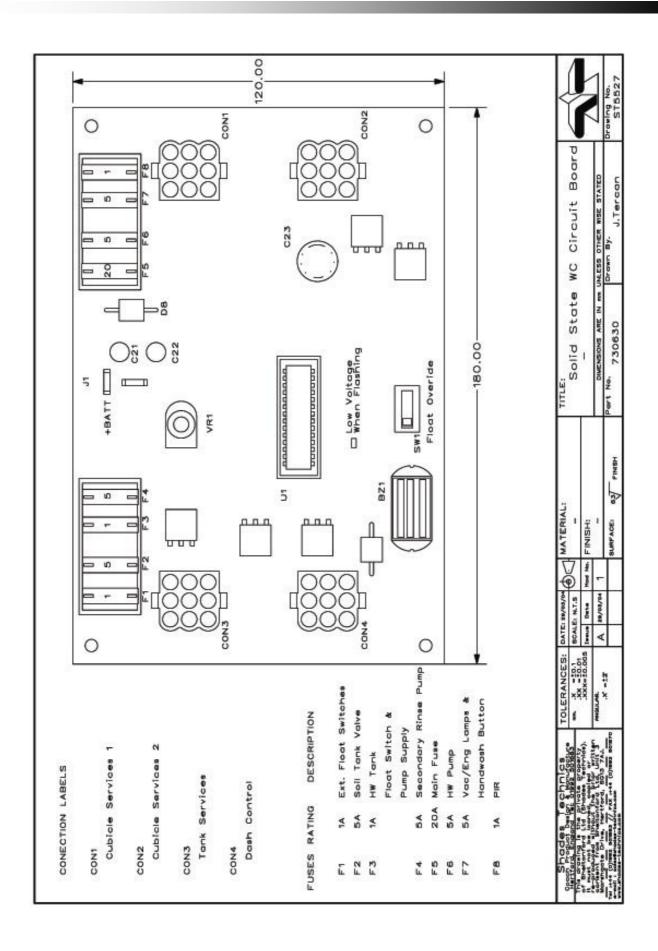
Power-up & voltage low indicator

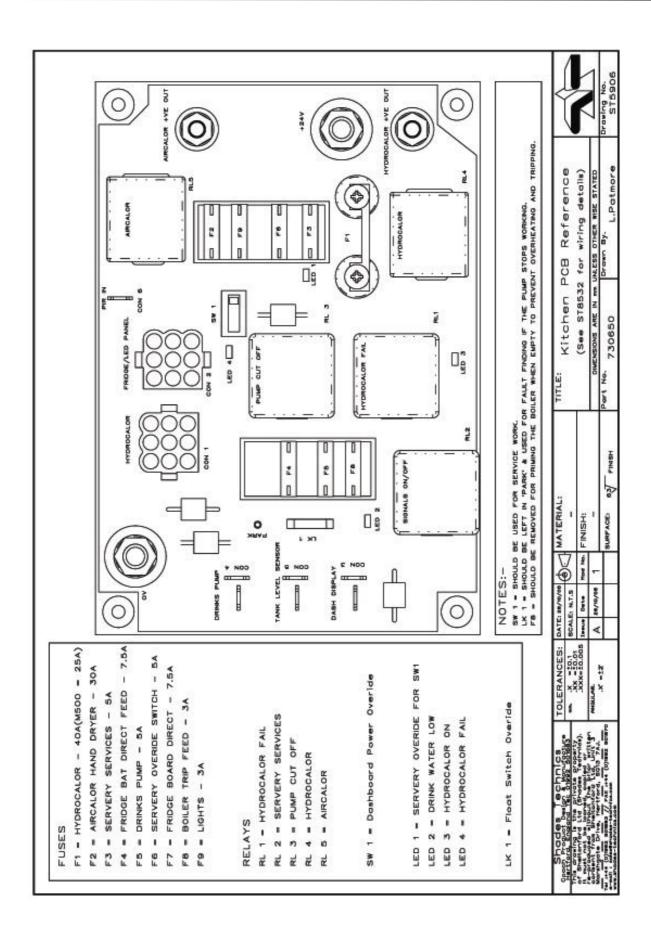
On power-up the control board enters the shut-down mode for 60 seconds. In shut-down mode, the occupied lamp will be on and all other outputs off.

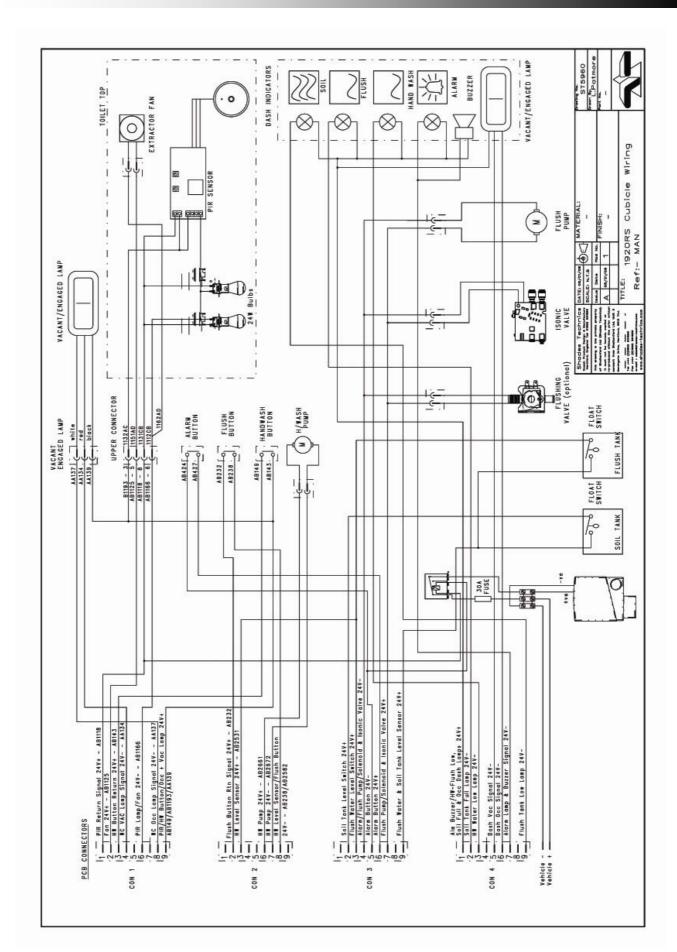
After 60 seconds, provided that the voltage is not too low, the control board will enter the normal operating mode.

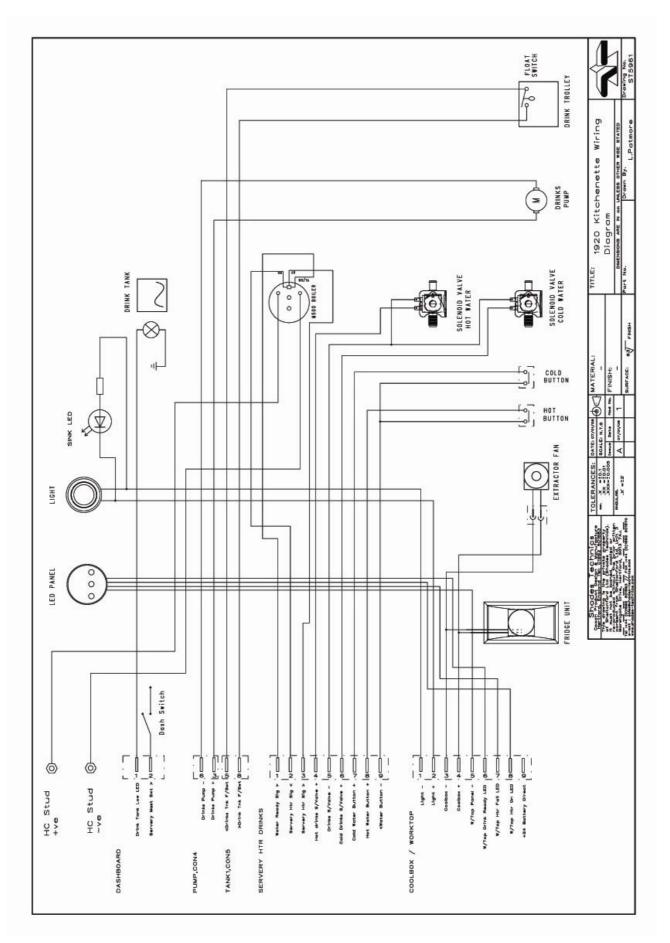
If at any time the voltage drops below the threshold (set by VR1) for more than 5 seconds, the control board will re-set. After a re-set, the board starts in the shut-down mode for another 60 seconds before being fully functional.

The threshold voltage is factory set to 22V, the RED 'low voltage' LED will begin to flash if the supply drops below the threshold.







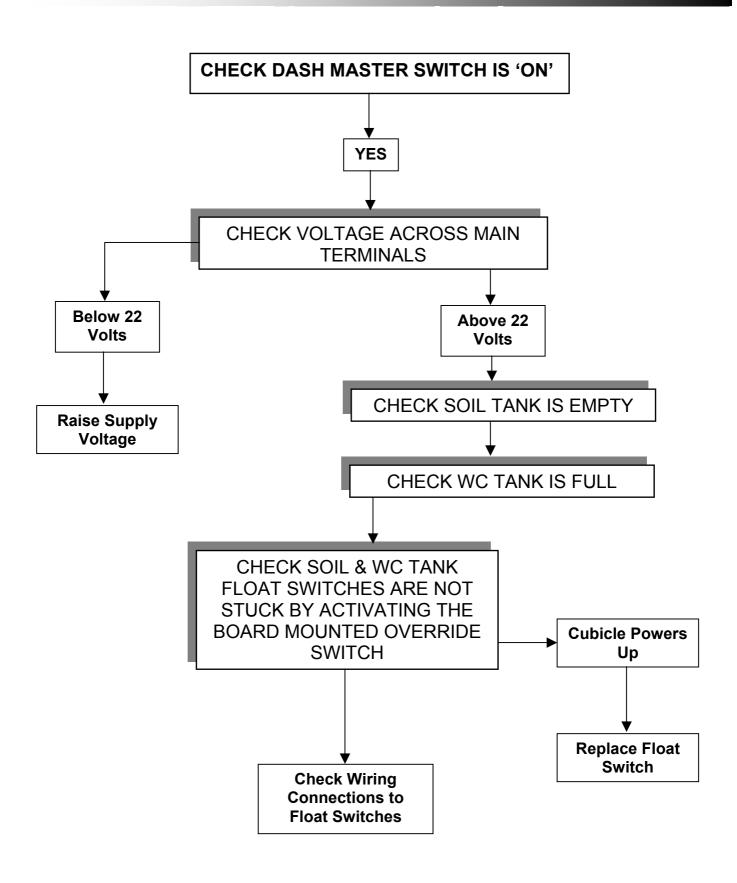


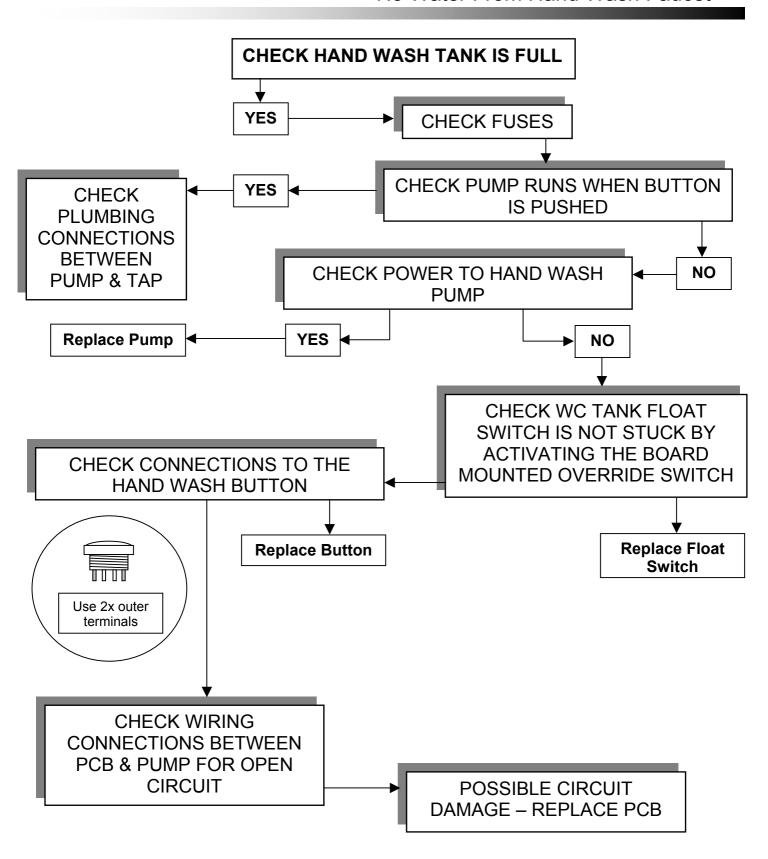
TOILET

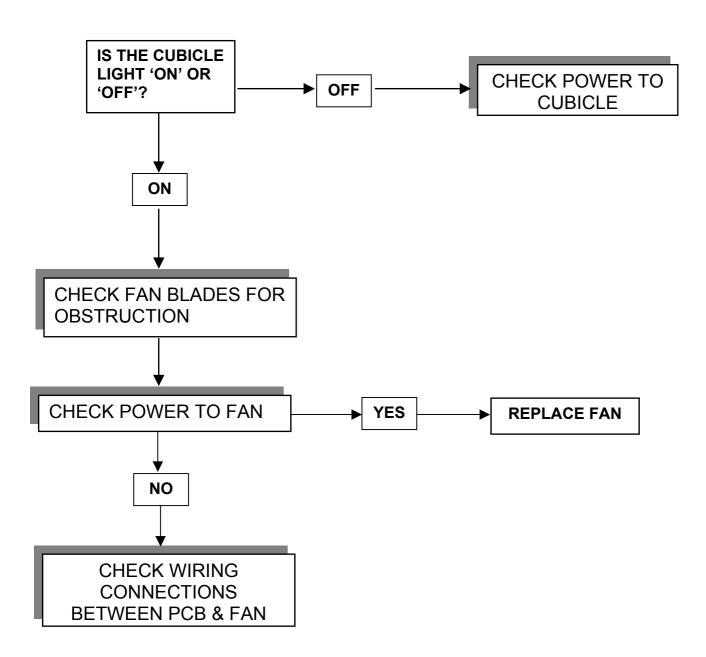
- 1. Toilet Fails To Power Up
- 2. No Water From Hand Wash Faucet
- 3. Extractor Fan Not Functioning
- 4. Hydro-Jet Not Working No Water or Pneumatic Valve
- 5. Hydro-Jet Pneumatic Valve Opens No Water
- 6. Hydro-Jet Water Flows Pneumatic Valves Does Not Open
- 7. Poor Water Flow Around Bowl
- 8. Interior Lamp Stays On Too Long/Not Long Enough
- 9. Aircalor Hand Drier Not Functioning
- 10. Vacant/Engaged Lamp Fails
- 11. Interior Lamp Fails
- 12. Alarm Button/Buzzer Not Functioning
- 13. Bad Toilet Odour

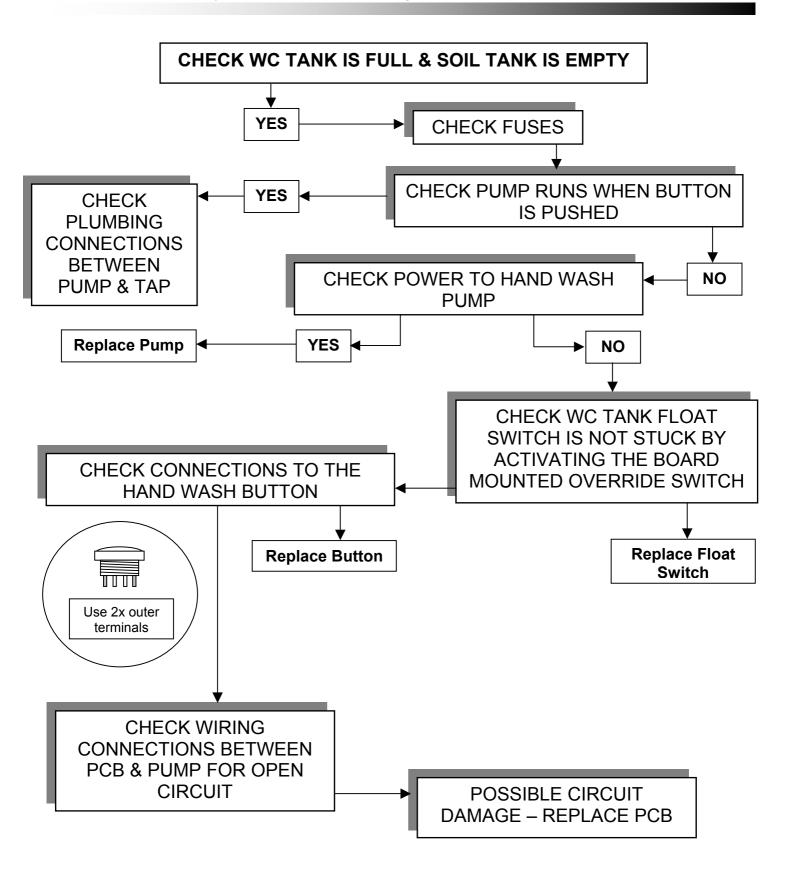
KITCHEN

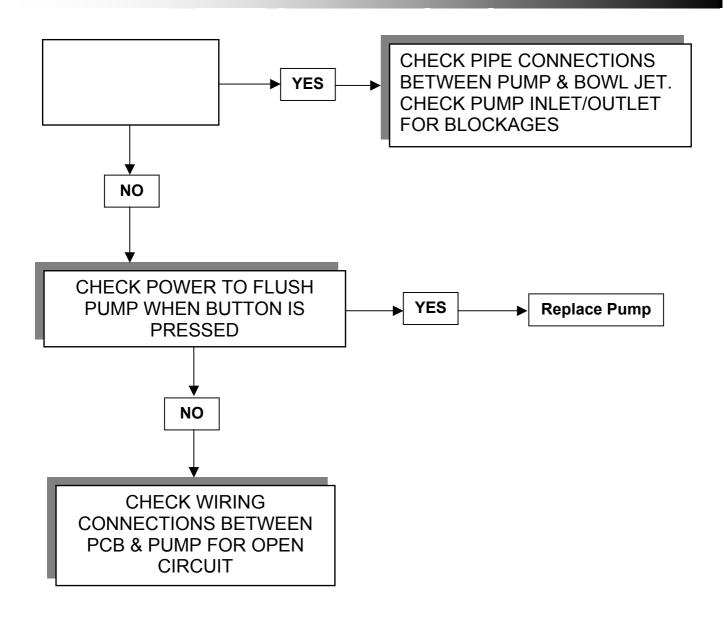
- 1. No Hot or Cold Water From Kitchen Faucet
- 2. Drinking Water Dispensing Problems
- 3. Water Flow From Kitchen Faucets Too Slow/Fast
- 4. Cold Water Flows from Hot Drinks Faucet
- 5. Cool Box Does Not Get Cold
- 6. Kitchen 'Hot Drinks' LED Not Working
- 7. Kitchen 'Power' LED Not Working

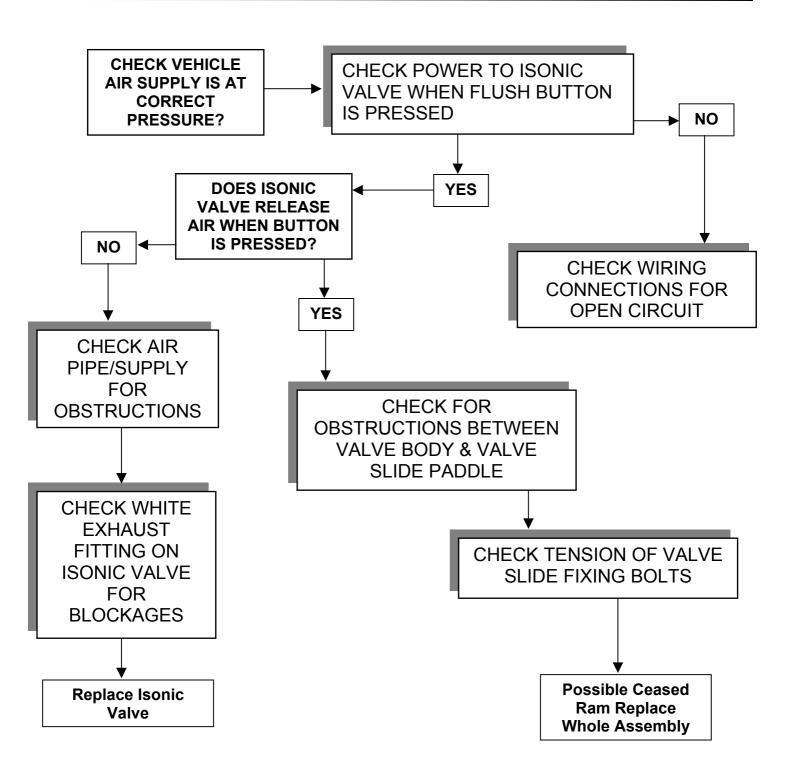


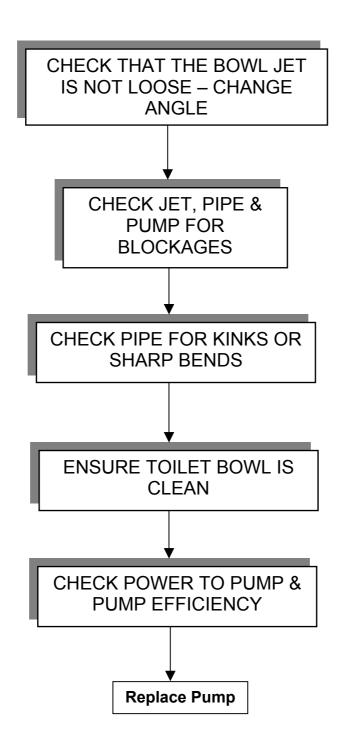




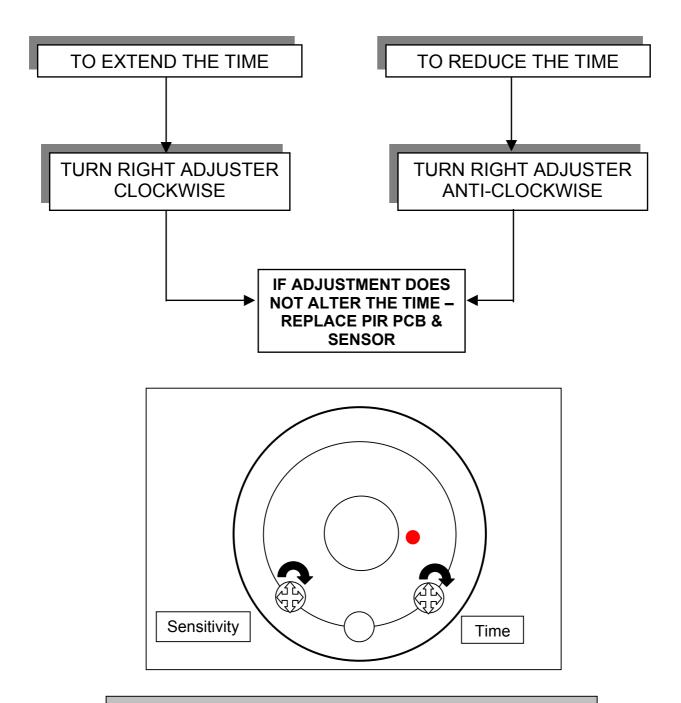






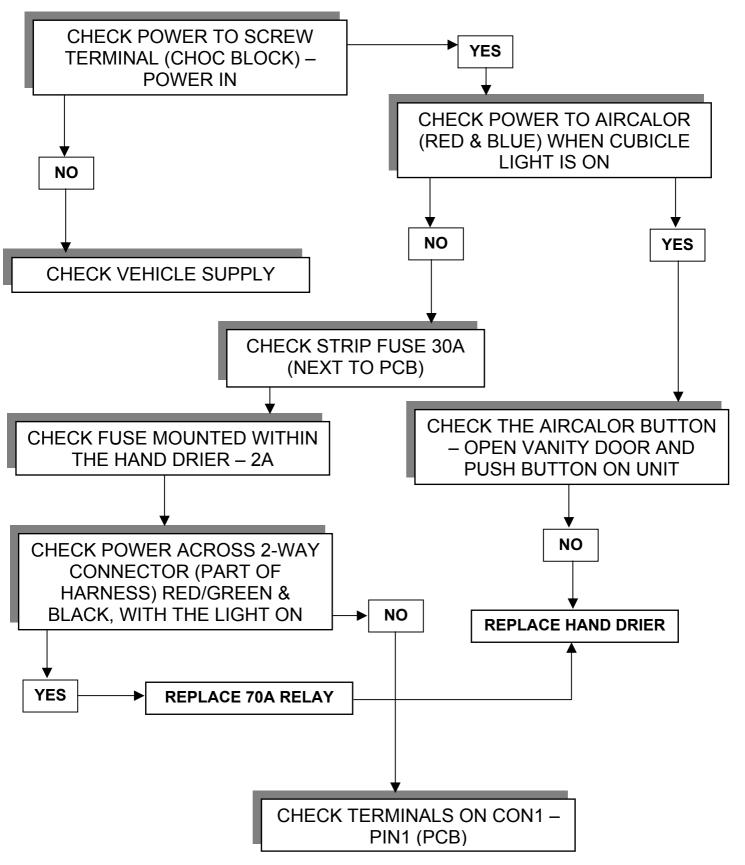


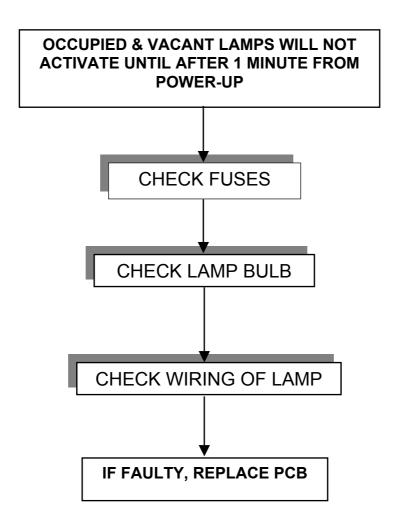
THE INTERIOR LAMP SENSOR DETECTS
BOTH HEAT & MOVEMENT. IT IS PRE-SET
TO TURN OFF THE INTERIOR LAMPS 30
SECONDS FROM ITS LAST DETECTION

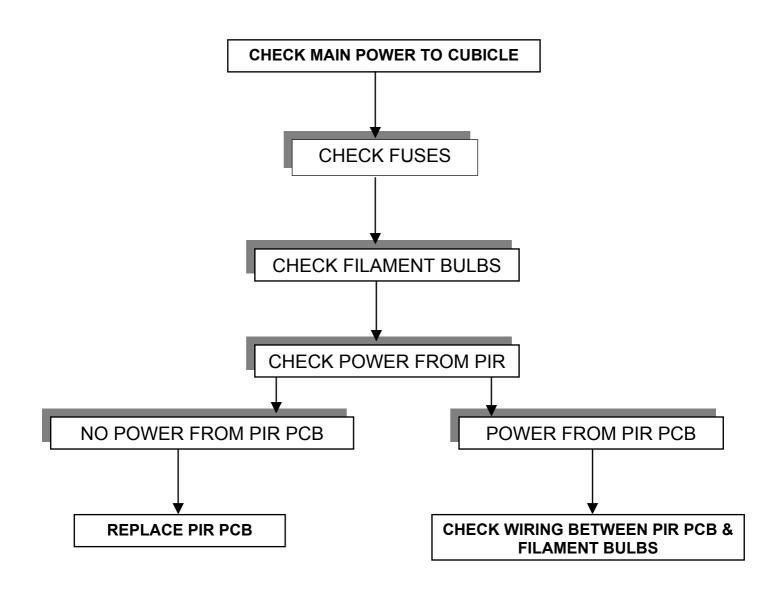


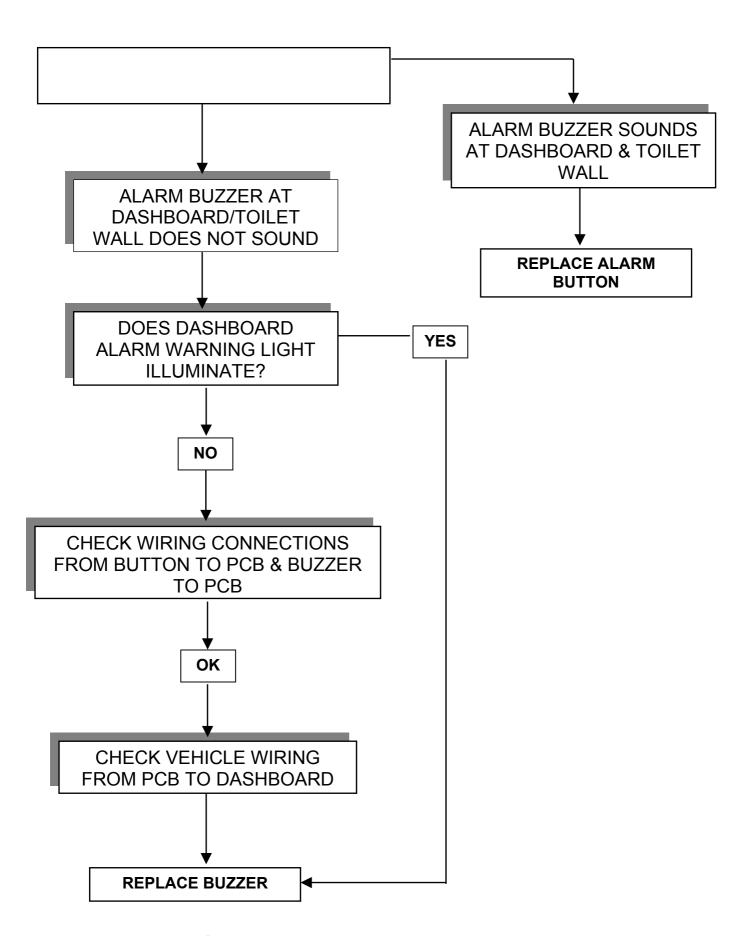
THE LEFT HAND ADJUSTER ALTERS THE SENSITIVITY OF THE SENSOR – CLOCKWISE TO INCREASE

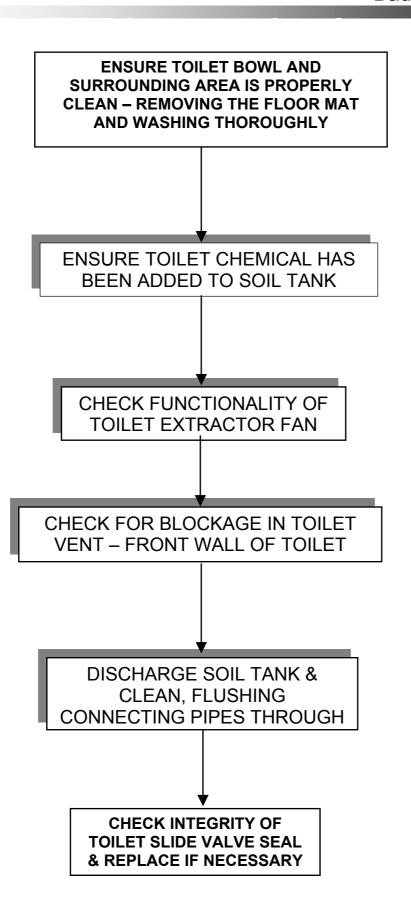
The Aircalor Hand-Drier will only Function with the WC Master Switch On and the Cubicle Interior Light On.

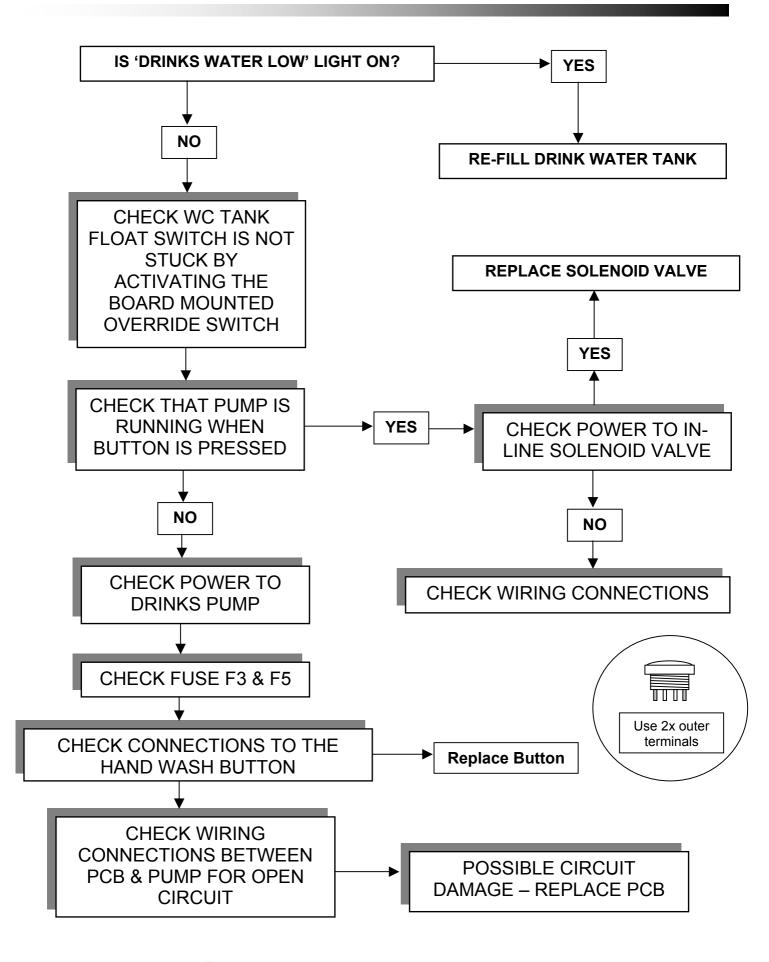


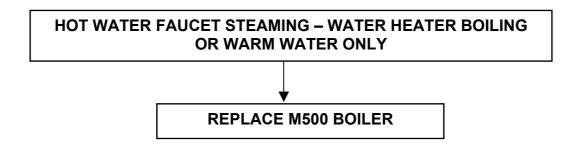




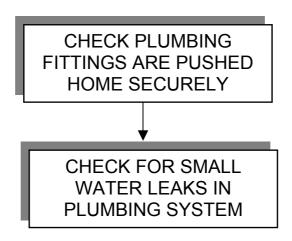




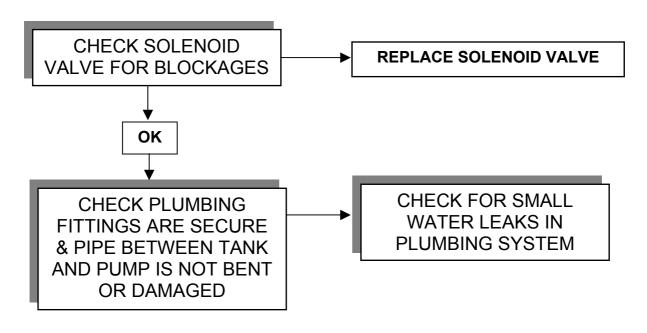


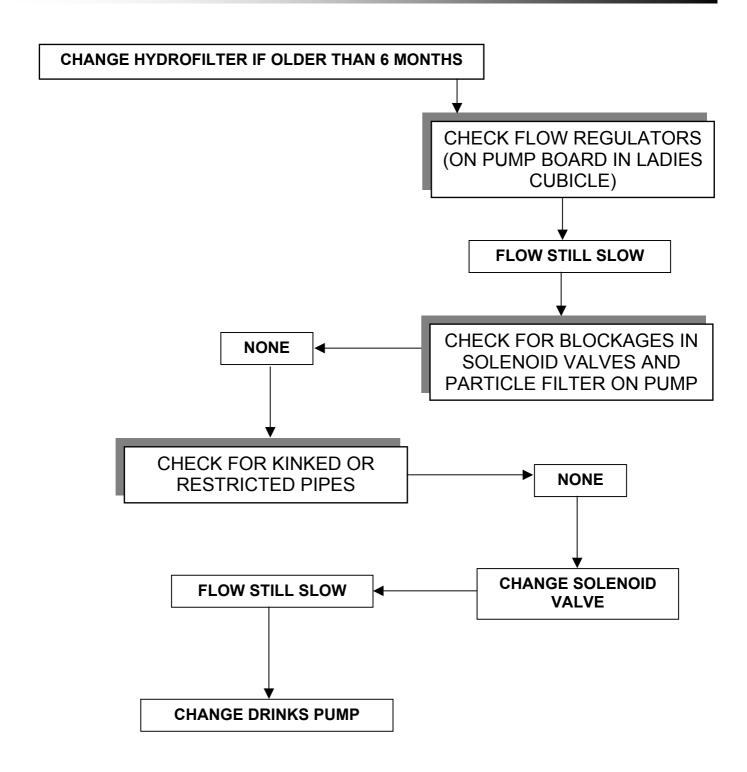


HOT WATER FAUCET SPLUTTERS WHEN DISPENSING WATER

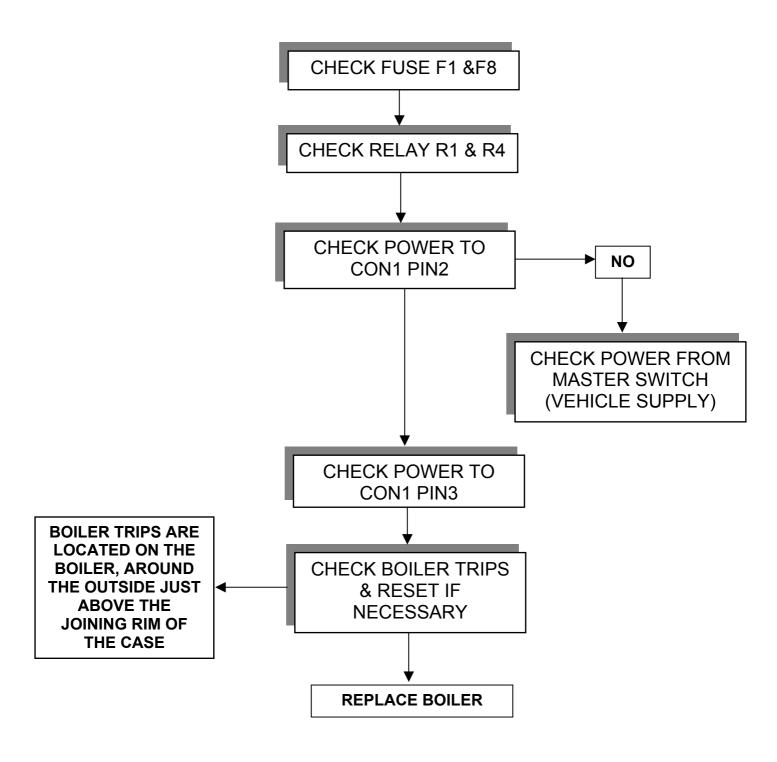


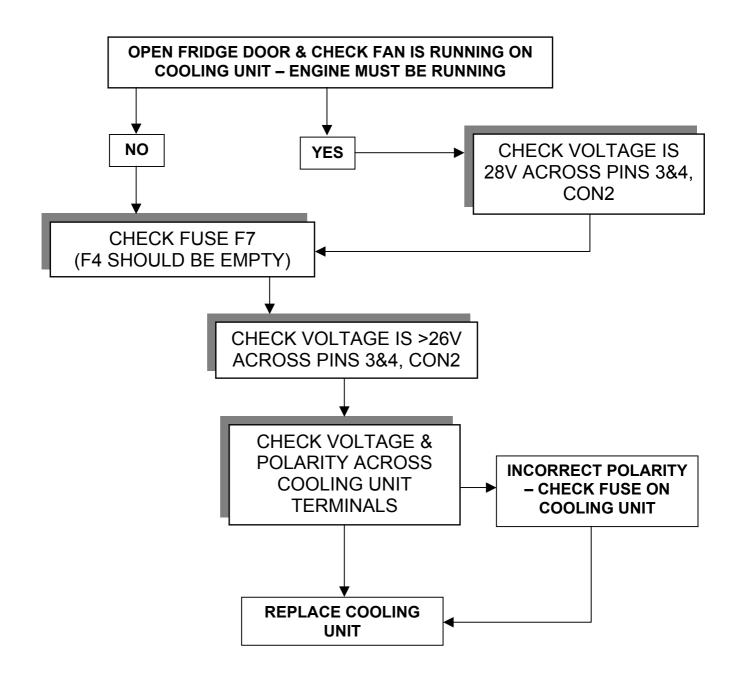
DELAY IN DESPENSING DRINKING WATER

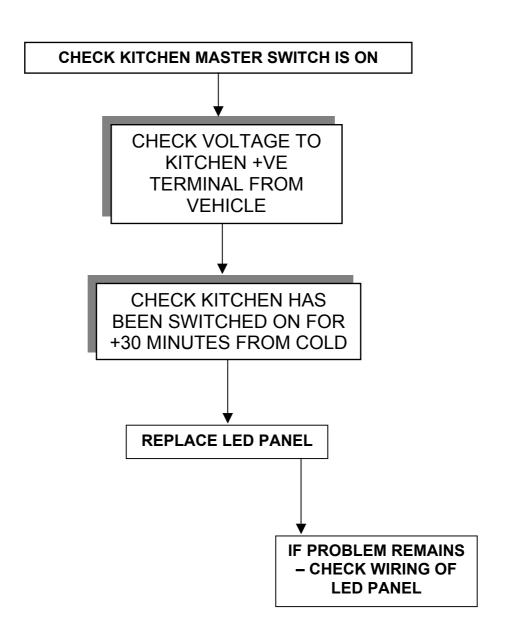


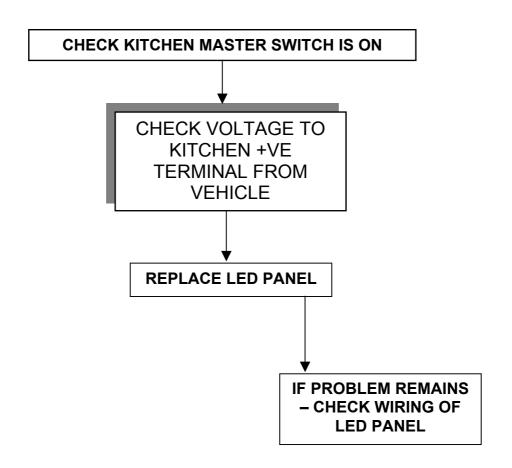


COLD WATER RUNS FROM HOT FAUCET – AFTER 20 MINUTES OF BEING SWITCHED ON





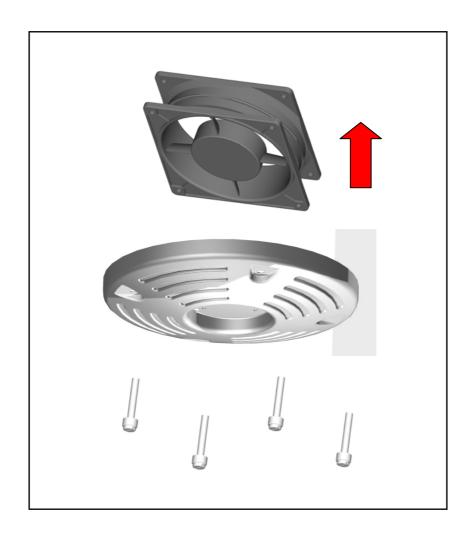




The following section details where to find key components and how to replace them.

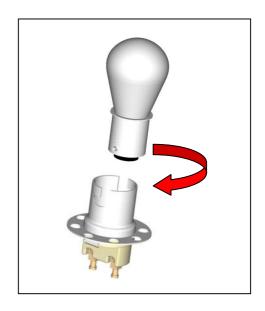
Part = Extractor Fan Location = Cubicle Top Replacement

- 1. DISCONNECT THE POWER TO THE CUBICLE
- 2. REMOVE PLASTIC FAN COVER 4x NYLON SCREWS
- 3. REMOVE 4x FAN FXING BOLTS
- 4. DISCONNECT THE WIRING TERMINALS FROM THE FAN
- 5. FIT NEW FAN CHECKING DIRECTION ARROW OF AIR FLOW. (ARROW MUST POINT UP)



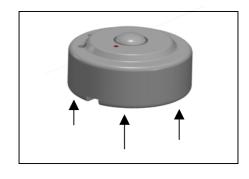
Part = Bulbs Location = Cubicle Top Replacement....

- 1. DISCONNECT THE POWER TO THE CUBCILE
- 2. REMOVE PLASTIC LIGHT COVER 4x NYLON SCREWS
- 3. DISCONNECT PIR CONNECTOR
- 4. TWIST BULB TO RELEASE AND REPLACE



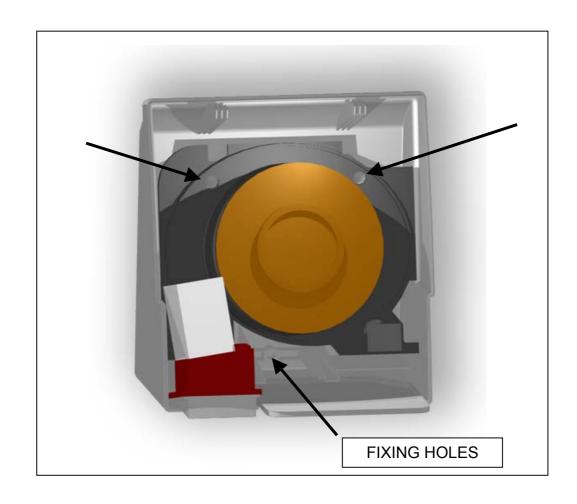
Part = PIR Sensor Location = Cubicle Top Replacement....

- 1. REMOVE PLASTIC LIGHT COVER 4x NYLON SCREWS
- 2. DISCONNECT PIR CONNECTOR
- 3. REMOVE 3x SCREWS ON THE INSIDE OF THE LIGHT COVER TO RELEASE THE PIR SENSOR.
- 4. TO RE-FIT A NEW SENSOR, REMOVE THE 3x SCREWS FROM THE BACK AND FIT THE UNIT BACK IN THE RECESS.
- 5. TIGHTEN THE SCREWS FROM INSIDE THE LIGHT COVER MAKING SURE TO ALIGN THE CABLE FROM THE PIR THROUGH THE SQUARE HOLE.



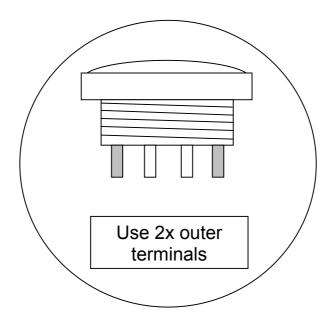
Part = Hand Drier Location = Behind Upper Vanity Door Replacement....

- 1. DISCONNECT THE POWER TO THE CUBICLE
- 2. UNLOCK AND OPEN THE UPPER VANITY DOOR
- 3. REMOVE 2x SCREWS ON THE UNDERSIDE OF THE HAND DRIER
- 4. REMOVE THE FRONT COVER OF THE HAND DRIER
- 5. REMOVE 2x RUBBER HOLE COVERS
- 6. REMOVE 3x SCREWS RELEASING THE UNIT FROM THE WALL
- 7. DISCONNECT THE 2 CABLES PASSING THROUGH THE OUTER WALL OF THE CUBICLE MAKING SURE THEY DO NOT FALL DOWN THE BACK
- 8. RE-CONNECT A NEW UNIT AND SCREW TO THE WALL
- 9. MAKE SURE THE RUBBER HOLE COVERS ARE RE-FITTED AND FIT THE COVER SECURING WITH BOTH SCREWS



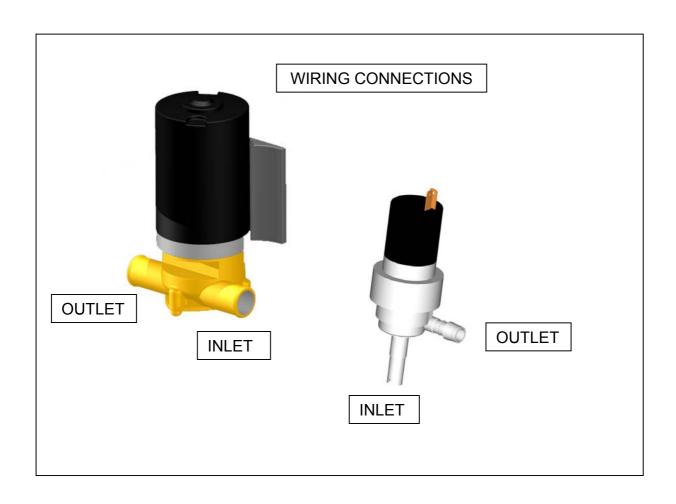
Part = Hand Wash & Flush Buttons Location = Sink Vanity Replacement....

- 1. DISCONNECT THE POWER TO THE CUBICLE
- 2. UNLOCK LOWER VANITY DOOR
- 3. REMOVE TERMINALS FROM THE BACK OF THE BUTTON
- 4. UNSCREW THE COLLAR ON THE UNDERSIDE OF THE BUTTON
- 5. BUTTON SHOULD RELEASE FROM THE TOP
- 6. RE-FIT NEW BUTTON AND CONNECT THE TERMINALS



Part = Hand Wash & Flush Pump Location = Sink Vanity Replacement....

- 1. DISCONNECT THE POWER TO THE CUBCILE
- 2. UNLOCK LOWER VANITY DOOR
- DRAIN FRESHWATER TANK
- 4. DISCONNECT THE WIRES TO THE PUMP
- REMOVE FROM SECURING CLIP
- 6. RELEASE INLET AND OUTLET PIPES
- 7. RE-FIT NEW PUMP MAKING SURE THAT BOTH INLET AND OUTLETS ARE WATER TIGHT AND THE FLOW ARROW IS POINTING IN THE CORRECT DIRECTION
- 8. RE-CONNECT THE POWER
- 9. CLOSE THE DRAIN ON THE SUPPLY TANK
- 10. RE-FILL TANK WITH FRESHWATER
- 11. SWITCH ON POWER TO CUBICLE
- 12. PRIME PUMP WITH 2-3 BUTTON PUSHES

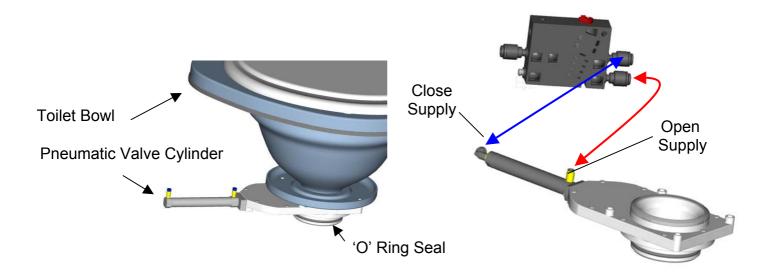


Part = Toilet Slide Valve Location = Toilet Bowl Removal....

- 1. DISCONNECT THE POWER TO THE CUBICLE
- 2. REMOVE 4x FIXING SCREWS FROM AROUND THE TOP OF THE BOWL
- 3. PULL & TWIST THE BOWL TO RELEASE THE SEAL FROM THE SOIL TANK
- 4. ONCE RELEASED, REMOVE THE SUPPLY HOSE TO THE FLUSH NOZZLE
- 5. LIFT BOWL OUT & REMOVE THE 2x AIR SUPPLY HOSES TO THE AIR CYLINDER
- 6. REMOVE 4x FIXING BOLTS SECURING THE SLIDE VALVE TO THE TOILET BOWL

Replcement....

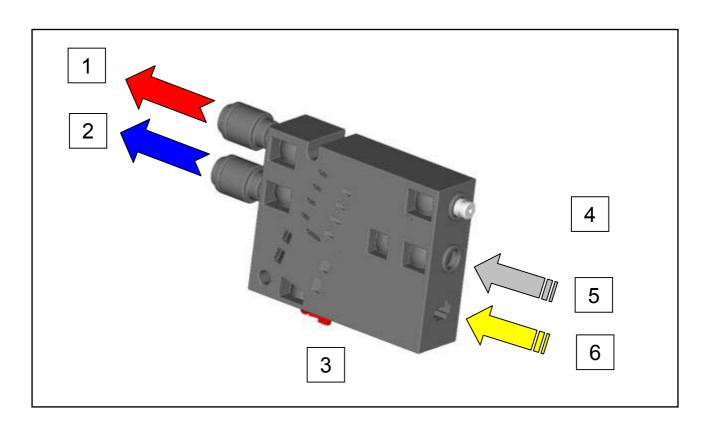
- POSITION THE VALVE ASSEMBLY ON THE BOTTOM OF THE BOWL AND SECURE WITH THE 4x BOLTS. TIGHTEN BOLTS TO 6KGF.CM USING A TORQUE WRENCH.
- 2. SMEAR GREASE OR SIMILAR AROUND THE BLACK O-RING ON THE PNEUMATIC VALVE & PASS BOWL THROUGH APERTURE ON THE COWLING PUSH FIRMLY INTO THE SOIL TANK. ENSURE THAT THE RUBBER FIN GASGET IS NOT IN THE ENTRANCE TO THE TANK AND ON THE BOTTOM OF THE VALVE.
- 3. RECONNECT THE AIR PIPES TO THE CYLINDER AND THE INLET PIPE TO THE FLUSH NOZZEL
- 4. PUSH THE BOWL FIRMLY INTO THE SOIL TANK.
- 5. START THE VEHICLE ENGINE & SWITCH ON THE WC MASTER SWITCH. WAIT UNTIL THE VEHICLE AIR PRESSURE IS AT MAXIMUM BEFORE ATTEMPTING TO FLUSH THE TOILET.



Part = Toilet Valve Control Box

Location = Fixed to the Air Cylinder or Mounted Next to the PCB Replacement....

- 1. DISCONNECT THE POWER TO THE CUBICLE
- 2. UNCLIP THE BLACK CONTROL VALVE FROM ITS LOCATION
- 3. REMOVE THE ELECTRICAL CONNECTOR FROM THE VALVE
- 4. REMOVE THE 3x PIPES FROM THE VALVE
- 5. RECONNECT NEW VALVE MAKING SURE THAT THE PIPES ARE IN THE CORRECT LOCATION



- 1. AIR SUPPLY OUT TO FRONT OF CYLINDER TO OPEN SLIDE VALVE
- 2. AIR SUPPLY OUT TO END OF CYLINDER TO CLOSE SLIDE VALVE
- 3. OVERIDE SWITCH SWAPS PORTS 1 & 2 OVER
- 4. EXHAUST MUST BE KEPT CLEAR
- 5. AIR SUPPLY FROM VEHICLE 10BAR MAX
- 6. ELECTRICAL CONNECTOR INCORRECT POLARITY WILL DAMAGE VALVE

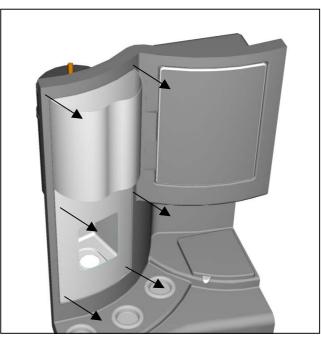
Part = Drinks Boiler

Location = Behind the Cup Dispenser on the Kitchen Replacement....

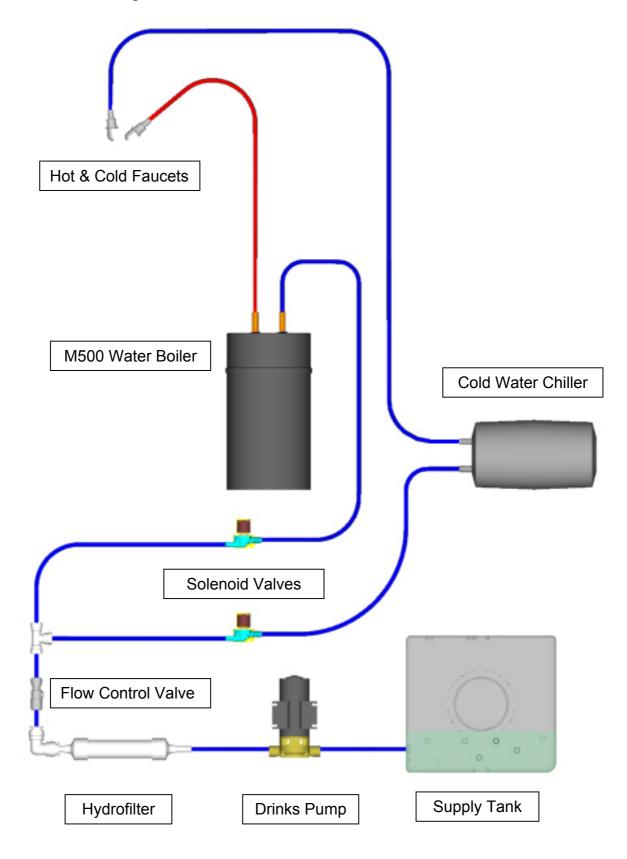
- 1. DISCONNECT POWER TO THE KITCHEN
- 2. LEAVE FOR 20 MINUTES TO COOL DOWN IF THE BOILER HAS BEEN WORKING
- 3. REMOVE THE 6x SCREWS HOLDING THE CUP DISPENSER SHIELD IN PLACE AND LOCATE IN A SAFE PLACE SO IT DOES NOT DAMAGE/SCRATCH THE FIRBEGLASS PARTS
- 4. DISCONNECT THE CABLES FROM THE BOILER
- 5. DISCONNECT THE INLET AND OUTLET PIPES TO THE BOILER
- 6. REMOVE 2x BOLTS, TOP AND BOTTOM OF BOILER BRACKET
- 7. REFIT A NEW BOILER UNIT AND SECURE TO THE BRACKET WITH 2x BOLTS
- 8. RECONNECT THE INLET AND OUTLET PIPES AND THE CABLES
- 9. REMOVE THE FRONT ACCESS PANEL ON THE LH TOILET AND REMOVE FUSE 8 FROM THE KITCHEN PCB
- 10. TURN KITCHEN MASTER SWITCH ON
- 11. PRESS AND HOLD THE HOT WATER BUTTON TO REFILL THE BOILER WITH FRESH WATER
- 12. ONCE THE BOILER IS FULL WATER WILL FLOW FROM HOT FAUCET
- 13. CHECK FOR PLUMBING LEAKS WITH THE CUP DISPENSER STILL REMOVED
- 14. FIT **FUSE 8** AND ALLOW 20-30 MINUTES FOR THE NEW BOILER TO GET HOT
- 15. ALIGN AND SECURE THE CUP DISPENSER WITH THE 6x SCREWS MAKING SURE THAT THE SHIELD SEALS AGAINST THE O-RING AROUND THE SINK MOULDING
- 16. THE HOT FAUCET WILL DRIP WHEN THE WATER IS AT THE CORRECT TEMPERATURE

CUP DISPENSER

THE REMOVAL OF FUSE 8 IS
NECESSARY TO STOP THE
BOILER FROM OVERHEATING
WHEN IT IS EMPTY –
OVERHEATING WILL CAUSE
THE TRIPS TO FAIL BUT
THESE CAN BE RESET

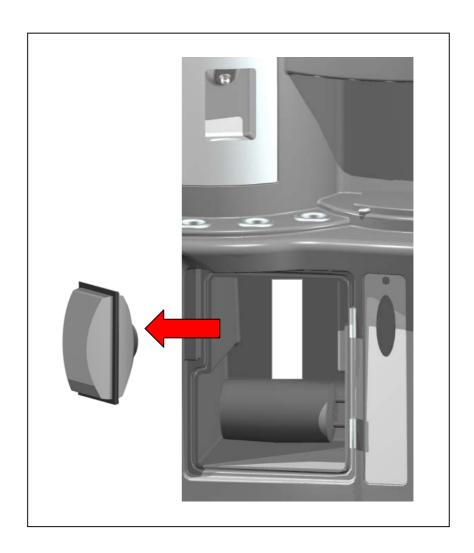


Kitchen Plumbing Schematic



Part = Fridge Cooling Unit Location = Inside Fridge on Kitchen Replacement....

- 1. DISCONNECT THE POWER TO THE KITCHEN
- 2. REMOVE THE FRIDGE SHELF
- 3. REMOVE 5x FIXING SCREWS FROM THE RIM OF THE COOLING UNIT. THE BOTTOM SCREW SHOULD BE LEFT OUT TO ALLOW REMOVAL OF THE FRIDGE WITHOUT DISCONNECTING THE WATER CHILLER
- 4. REMOVE THE COOLING UNIT THROUGH THE FRIDGE DOOR AND DISCONNECT THE SUPPLY CABLES
- 5. REFIT THE NEW UNIT CONNECTING THE CABLES AND LEAVING THE BOTTOM SCREW OUT
- 6. TURN THE ENGINE ON
- 7. TURN THE KITCHEN MASTER SWITCH ON
- 8. CHECK THAT THE FAN ON THE COOLING UNIT IS WORKING



Part = LED Display Panel Location = Front of Kitchen Above Litter Bin Replacement....

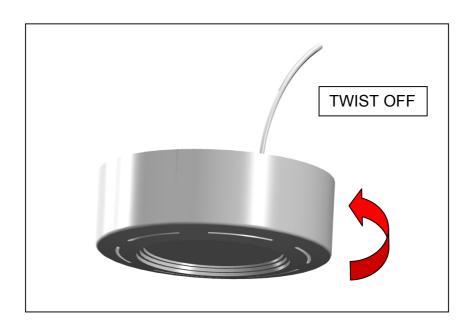
- 1. DISCONNECT THE POWER TO THE KITCHEN
- 2. CAREFULLY UNCLIP THE LED PANEL FROM THE FRONT
- 3. UNCLIP THE CABLE CONNECTOR TAKING NOTE OF THE COLOUR POSITIONS
- 4. RECONNECT THE NEW PANEL AND PUSH FIRMLY BACK INTO THE HOLE



Part = Kitchen Lamp Bulb

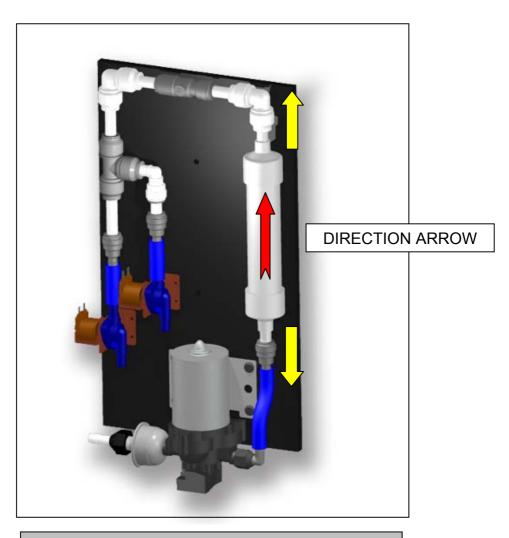
Location = Underneath the Storage Cupboard on the Kitchen Replacement....

- 1. DISCONNECT THE POWER TO THE KITCHEN
- 2. UNSCREW THE FRONT RIM OF THE LIGHT FITTING
- 3. PULL THE BULD FROM ITS HOLDER
- 4. REFIT A NEW BULB AND SCREW THE FRONT LENSE OF THE LIGHT BACK ON
- 5. TURN KITCHEN MASTER SWITCH BACK ON



Part = Drinks Filter (Hydrofilter) Location = Sink Vanity in LH Ladies Cubicle Replacement....

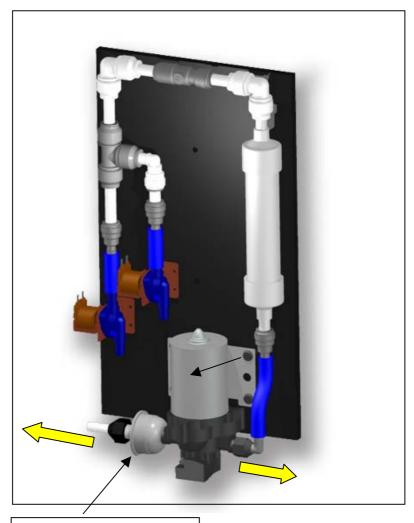
- 1. THE HYDROFILTER HAS A SIX MONTH LIFE STARTING FROM ITS FIRST CONTACT WITH WATER
- 2. UNLOCK THE LOWER SINK VANITY DOOR
- 3. RELEASE THE 2 PUSH-FIT FITTINGS ON THE ENDS OF THE HYDROFILTER, UNCLIP AND REMOVE
- 4. REMOVE THE PLASTIC CAPS ON THE END OF THE NEW FILTER AND RINSE THROUGH WITH CLEAN WATER FOR 2 MINUTES
- 5. REFIT THE NEW FILTER MAKING SURE THAT THE DIRECTION ARROW IS POINTING UP
- 6. CHECK FOR LEAKS IN THE SYSTEM BEFORE CLOSING THE VANITY DOOR



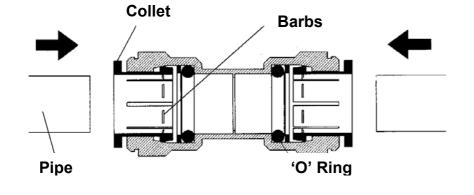
TO REMOVE THE PUSH-FIT PLUMBING FITTINGS – TWIST THE COLLAR AND PULL

Part = Drinks Pump Location = Sink Vanity in LH Ladies Cubicle Replacement....

- 1. DISCONNECT THE POWER TO THE KITCHEN
- 2. UNLOCK THE LOWER SINK VANITY DOOR
- 3. UNSCREW 2x HOSE CONNECTORS ON EITHER END OF THE PUMP
- 4. UNSCREW THE 4x FIXING SCREWS HOLDING THE PUMP TO THE BOARD
- 5. DISCONNECT THE ELECTRICAL CONNECTION
- 6. UNSCREW THE PARTICLE FILTER FROM THE PUMP INLET AND REATTACH TO THE NEW PUMP CHECK ITS CLEAN
- 7. SCREW THE NEW PUMP TO THE BOARD AND RE-CONNECT THE ELECTRICAL CONNECTIONS
- 8. SCREW THE HOSE CONNECTIONS TO THE PUMP
- 9. TURN KITCHEN MASTER SWITCH ON AND PRESS THE HOT OR COLD BUTTON TO PRIME THE PUMP

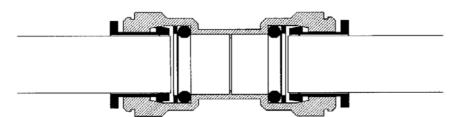


PARTICLE FILTER



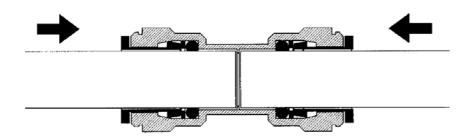
PREPARTION

Cut the pipe square, ensuring it is free of score marks, burrs and sharp edges



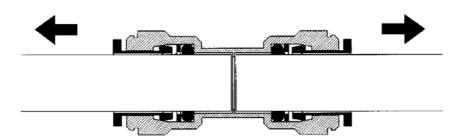
INCOMPLETE CONNECTION

The pipe is gripped by the fitting but not sealed. The pipe must push 30mm into the fitting to seal



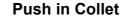
COMPLETE CONNECTION

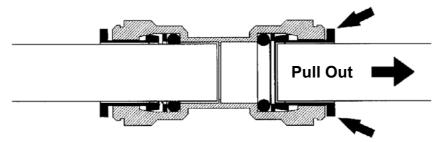
Push the pipe into fitting to the internal stop. The Collet has stainless steel teeth which grip the pipe whilst the 'O' ring provides a permanent leak-proof seal



CHECK CONNECTION

Pull on the pipe to check it is secure. It is a good practice to test the system this way before use





DISCONNECTING A FITTING

Push in collet squarely against face of fitting. With the collet held in position, the pipe can be removed

DO NOT INSERT FINGERS INTO THE FITTING AS THE STAINLESS STEEL TEETH MAY CAUSE INJURY