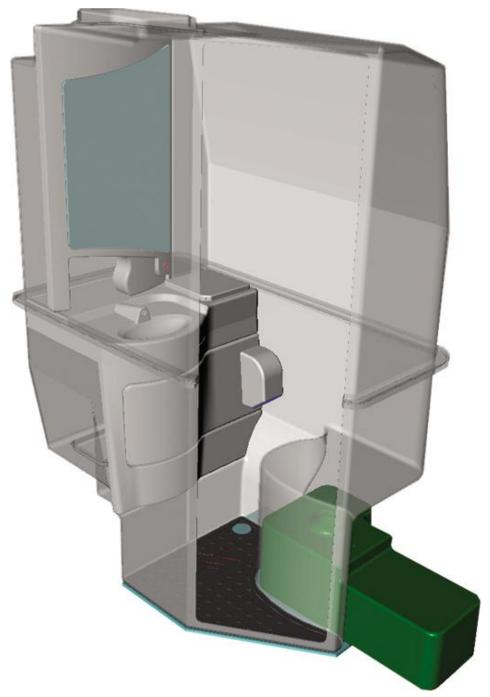


## 1906 Toilet Cubicle



Manual

#### **CUBICLE OPERATING INSTRUCTIONS**

**CLEANING & HYGENE** 

**CUBICLE MAINTENANCE** 

**WARRANTY CLAIMS** 

#### **SPARE PARTS CATALOGUE**

- Door
- Sink
- Vanity
- Vanity Door
- Bin Lid
- Upper Vanity
- Upper Vanity Door
- Fan
- Toilet Bowl
- Flush Tank
- Soil Tank
- Handwash Tank
- Front Fascia
- Cubicle Base
- Cubicle Top
- External
- General Spares
- Legends

#### **ELECTRICAL DIAGRAMS**

- PCB Layout
- Cubicle Circuit Diagram

**FAULT FINDING CHARTS** 

PARTS REPLACEMENT INSTRUCTIONS

#### **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. NOTE: The toilet will flush automatically if the cubicle is vacated without flushing first.

(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. Both have the option of manual fill:- The handwash 40mm fill pipe is accessed by removing the litter bin and the flush tank, fitted with a 100mm screw cap, can be accessed throught the floor trap.

The holding tank is emptied by firmly pulling the handle on the slide valve fitted underneath the tank.

#### **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 sink area. Removing this bin gives access to the 40mm fill pipe and drain tap for the hand wash tank. 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 such as *Bay West* or *Mini Tork* is used at all times, (320 sheet roll Cat no: 800103).

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 "RC" (Cat No: 800022) or "ECO" (catalogue No: 800026), the formaldehyde-free formula of both types is contained within a water soluble membrane. A single 8 gram sachet contains the recommended dosage for 55 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)

To flush out:

- 1. Switch on the cubicle.
- 2. Connect a hosepipe to a mains water supply.
- 3. Depress the flush button once to open the slide valve.
- 4. When the valve opens, insert the end of the hose pipe down through the bowl, into the soil pipe. When the valve closes the hose will be held into position by the paddle pressure.
- 5. Turn on the water to the hose pipe and fill the holding tank, being careful not to overfill. .
- 6. Switch off the water to the hose and open the evacuation valve to empty the tank.
- 7. Press the flush button to open the valve and remove the hosepipe.
- 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** 

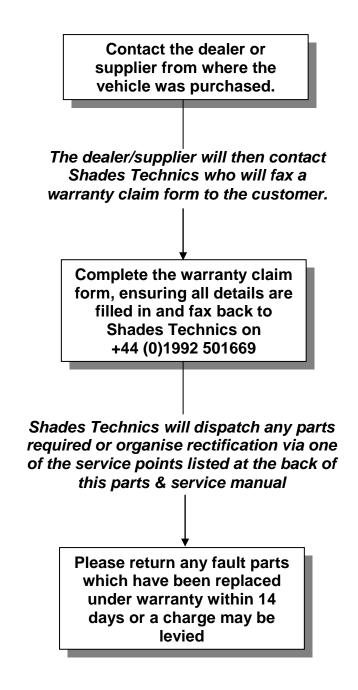
When jump starting the vehicle, please ensure that the dashboard master Switche, **WC**, is off!

### Fault Reporting Procedure

- 1. In the unlikely event of a fault occurring an emergency parts kit has been supplied along with the enclosed comprehensive fault analysis flow chart
- 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 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.





Door Lock Cat No: 661206

Fascia Support Cat No: TBA

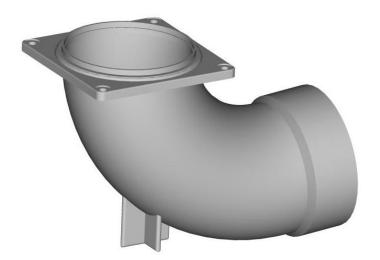
Door Support Angle Cat No: TBA



Self-Closing Toilet Door Hinges Cat No: 661400



Soil Elbow Cat No: 735699



Soil Elbow Cat No: 735706



Lamp Cover Cat No: 712111



Faucet

Cat No: 663603



Floor/Sink Drain Cat No: 701550



Flush/Hand wash Button Cat No: 714007



Happich Lock Cat No: 661217



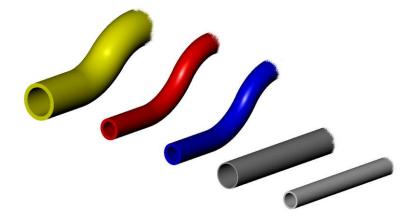
Alarm Button Cat No: 714030



Vertical Float Switch Cat No: 714500



Horizontal Float Switch Cat No: 714510



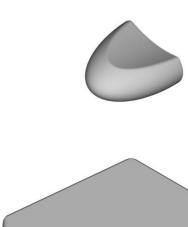
744060 - 3/4" Overflow Hose

 $744040 - \frac{1}{2}$ " Red Hose

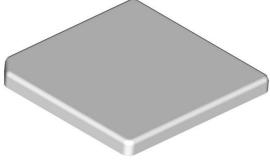
744030 – ½" Blue Hose

745003 – 21.5mm Grey Pipe

747052 – 15mm White Pipe



Litter Bin Knob Cat No: 661214



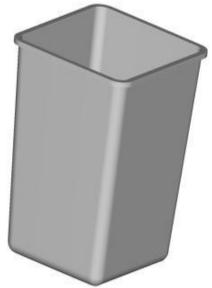
Litter Bin Lid Cat No: TBA



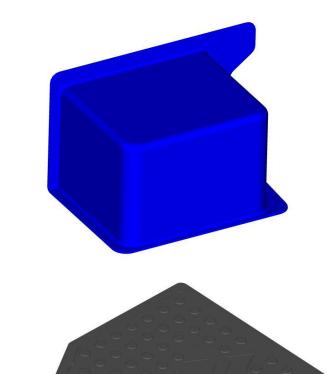
Clear Buffer Cat No: 713515



Edgemount Hinge Cat No: 661410



Litter Bin Cat No: 661040



Soil Tank Cover Cat No: TBA



Floor mat Cat No: 661478

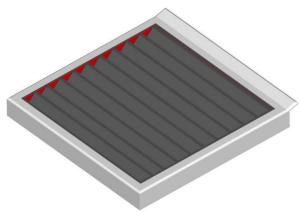


Smoke Alarm Cat No: 661120

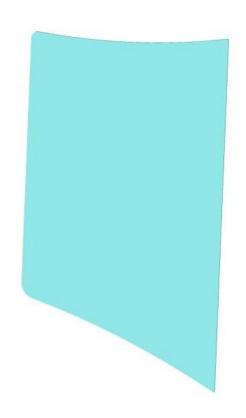
## Cubicle Upper Vanity Spares



Bayonet Bulb Cat No: 712028



Fan cover Cat No: 727225



Mirror

Cat No: 661813



S/Steel Bowl (no seat) Cat No: 731250



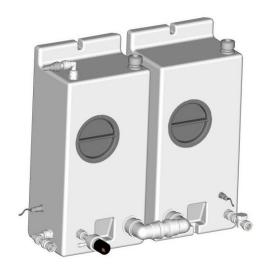
Swivel Straight  $\frac{1}{2}$ " BSP –  $\frac{1}{2}$ " Barbed end Cat No: 702520



Piston and Slide Valve Assembly Cat No: 735713

PIR

Cat No: 712080



Assembled Hand wash Tank with Fittings Cat No:



Elbow ¾" x ¾" Tank Fitting Cat No: 744003



<sup>3</sup>/<sub>4</sub>" Swivel Hose Connector Cat No: 744005



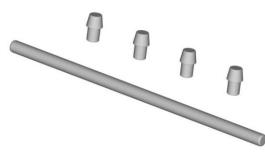
21.5mm x <sup>3</sup>/<sub>4</sub>" Elbow Cat No: 744002



Handwash Pump Cat No: 702110



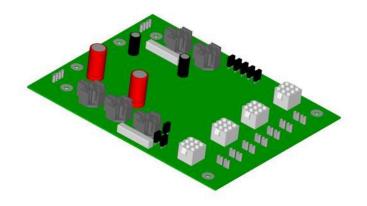
Isolator Switch and Key Cat No: 661221



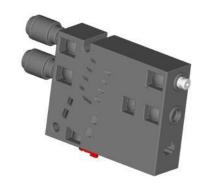
Door Hinge Kit Cat No: 661401



Liobex Hinge Cat No: 661400



PCB Control Board Cat No: 730615



Isonic Valve Cat No: 735714



Floor Grip Tape Cat No: 661480



Toilet Role Holder Cat No: 661618



Flush Pump Cat No: 702180



4mm Air Pipe Cat No: 735722



Clear Plastic Insulation Sleeve 6.1 x 7.9 Cat No: 713047



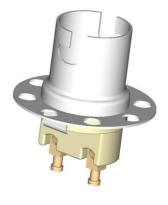
Terry Clip Cat No: 713285



Door Striker Angle Cat No:



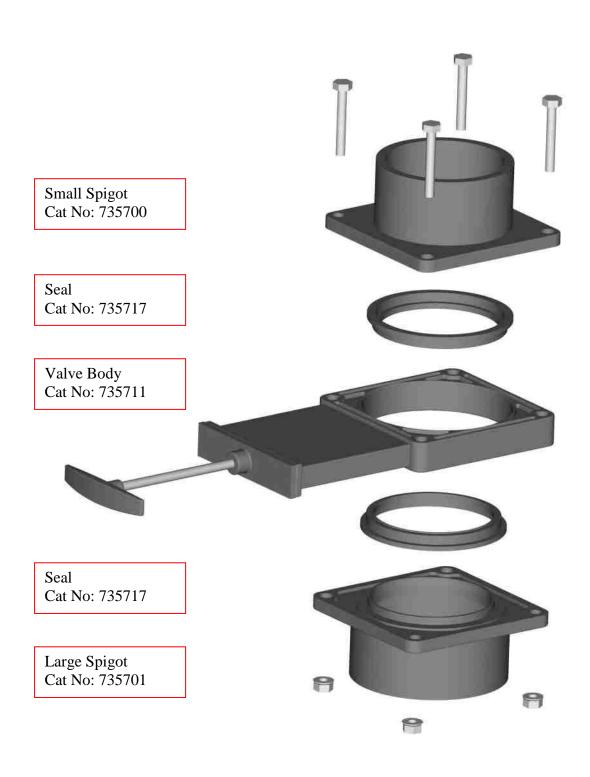
Hydrocalor Cat No: 661800



Bulb Holder Cat No: 712027



Thumb Screw Cat No: 663408





Knuckle Bend Cat No: 744120



Shut off Tap Cat No: 747037



T Push Fit Cat No: 744121



½" Potable Hose Cat No: 744030



12-22 Hose Clip Cat No: 744041



21.5mm Rigid Pipe Cat No: 747055



Black End Cap Cat No: 732061

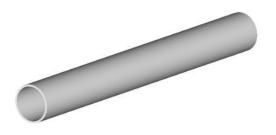
Tank Connector







Swivel Bend Cat No: 732063



40mm Pipe Cat No: 732062

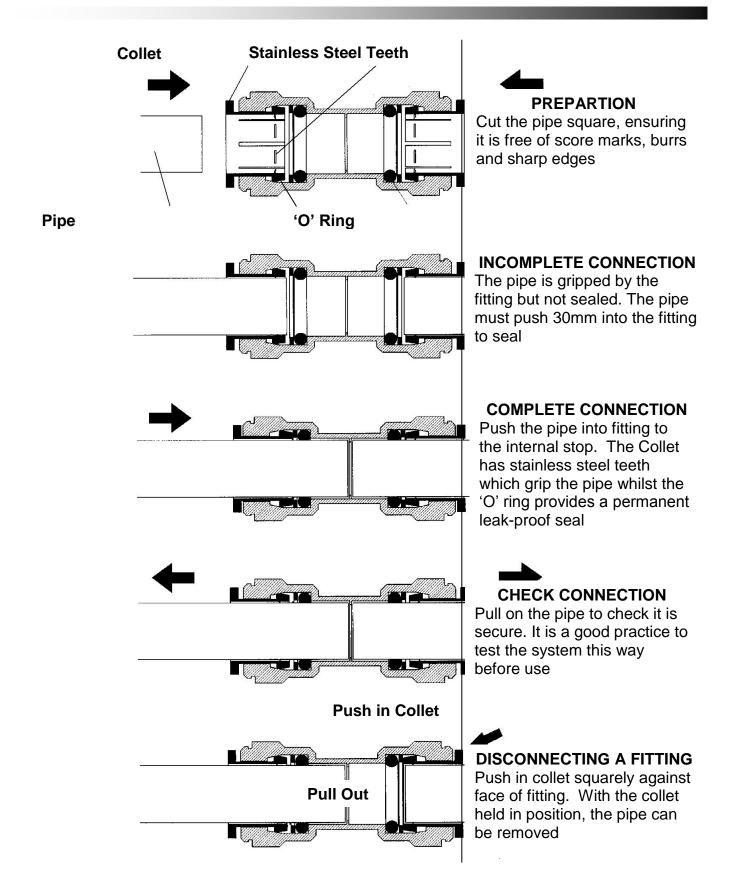


Hose Barb Connector 15mm x ½" Speedfit Cat No: 747027

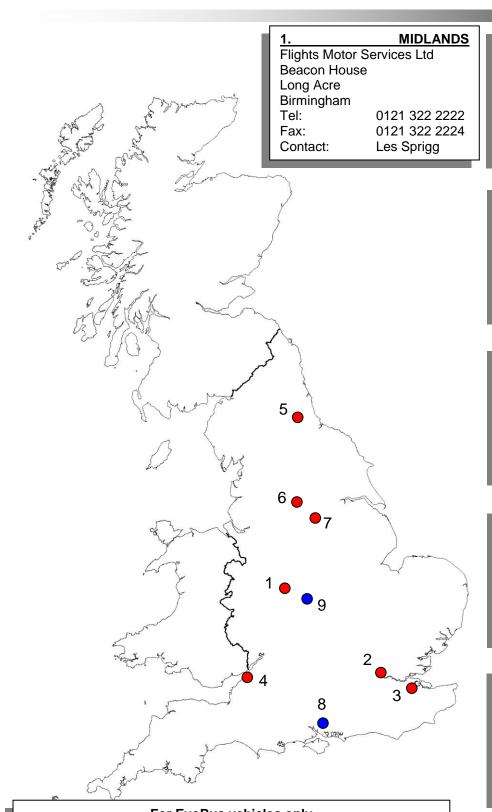


15 mm Stem Elbow Connector Cat No: 744122

## Service Instructions



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



LONDON Dorset Travel Services Ltd

Victoria Coach Station (Arrivals)

3, Eccleston Place

London

0171 730 8867 Tel: Fax: 0171 730 6492 Glenn Pearson Contact:

Simon Electronic Services

738 Maidstone Road Wigmore Gillingham Kent

Tel & Fax: 01634 364889 Contact: Simon Darby

#### **WEST COUNTRY**

**PCV** Auto Electrical 13A Anchor Road Kingswood Bristol

Tel: 0831 567 801 Fax: 0117 939 0089 Contact: **Brian Cox** 

#### **NORTH EAST**

Prolek Crook

Auto Electrical Services Rear High Hope Street

Crook Co Durham

Tel & Fax: 01388 762630 Contact: Bill Simpson

#### **WEST YORKSHIRE**

Wallace Arnold Lowfields Road (off Geldred Road)

Leeds

Tel: 0113 263 6456 0113 231 0749 Fax: Contact: **Barry Mace** 

#### **SOUTH YORKSHIRE**

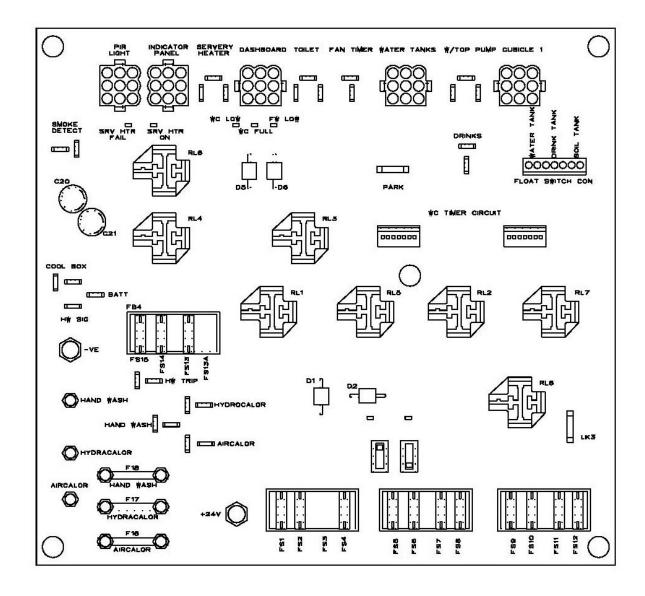
Moseley PCV Ltd Elmsall Way, Dale Lane South Elmsall

**Pontefract** Tel:

01977 609 000 01977 609 900 Fax: Contact: Mike Coleman

#### For EvoBus vehicles only

**MIDLANDS HAMPSHIRE** EvoBus (UK) Ltd Pentagon of Fareham Ashcroft Way Standard Way Crosspoint Business Park Fareham Coventry Hampshire Tel: 02476 626000 Tel: 01329 286224 Fax: 02476 262006 Fax: 01329 823432 Contact: Jamie Evans Contact: Kevin Dart



#### Notes for All Boards

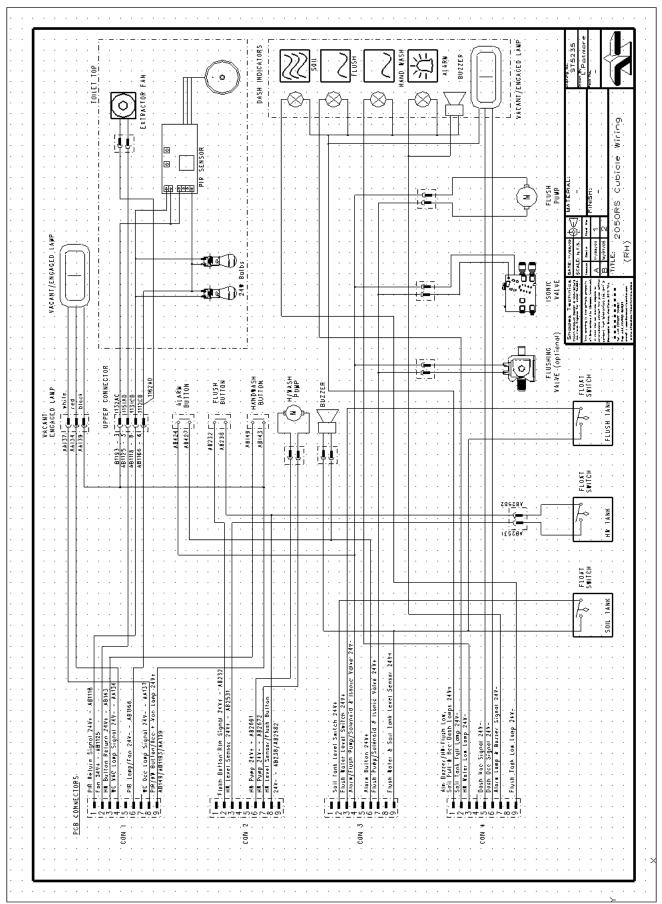
Fuses FS13 and FS13A not to be fitted both at the same time as feedback from the direct battery feed and the board feed. I.E. Battery Isolator can occur.

FS13A is only for Board fed cool box FS13 is only for direct battery fed cool box Smoke Detector Circuit not fused

Off Board – B500 relay fitted, Hand Dryer relay fitted.

## PCB REFERENCE DIAGRAM (continued)

Fuses			Relays		
FS1	10A	WC Water Low, Soil Full, Hydroflush and Handwash Relays Main Power	RL1	10/20A	WC Services Fitted
FS2	5A	PIR Unit Relay Contact Power and Fluorescent Lamp with Integral PIR Unit	RL2	10/20A	Hydroflush Control Fitted
FS3	3A	Cubicle Fan Direct	RL3	10/20A	WC Low Water Cut off Fitted
FS4	<b>3A</b>	WC Override Control Switch	RL4	10/20A	Soil Full Cut Off Fitted
FS5	<b>3A</b>	Servery Override Control Switch	RL5	10/20A	Handwash Control Fitted
FS6	<b>3A</b>	Alarm Lamp and Buzzer	RL6	10/20A	Hydrocalor Fail Control Fitted
FS7	5 <b>A</b>	Flush Pump	RL7	10/20A	Servery Services Fitted
FS8	5A	Handwash Pump	RL8	10/20A	Servery Services Low Water Cut Off Fitted
FS9	1A	Timer Unit Controlling Hydroflush, Handwash and Timed Cut of Fan.	Links		
FS10	3A	Work Top Drinks Pump Button and Pump	LK3		Hydrocalor Isolating Link
FS11	5A	Servery Services	Park		Link to Top Switch Connection for Override
FS12	<b>3A</b>	Servery Boiler Signal			
FS13	NIL	Direct Supply for Cool Box			
FS13A	NIL	Board Supply to Cool Box			
FS14	<b>1A</b>	Remote PIR Board Control			
FS15	<b>3A</b>	Handwash Trip			
FS16	<b>40A</b>	Aircalor			
FS17	<b>40A</b>	Drinks Hydrocalor / B500			
FS18	NIL	Handwash Hydrocalor / B500			



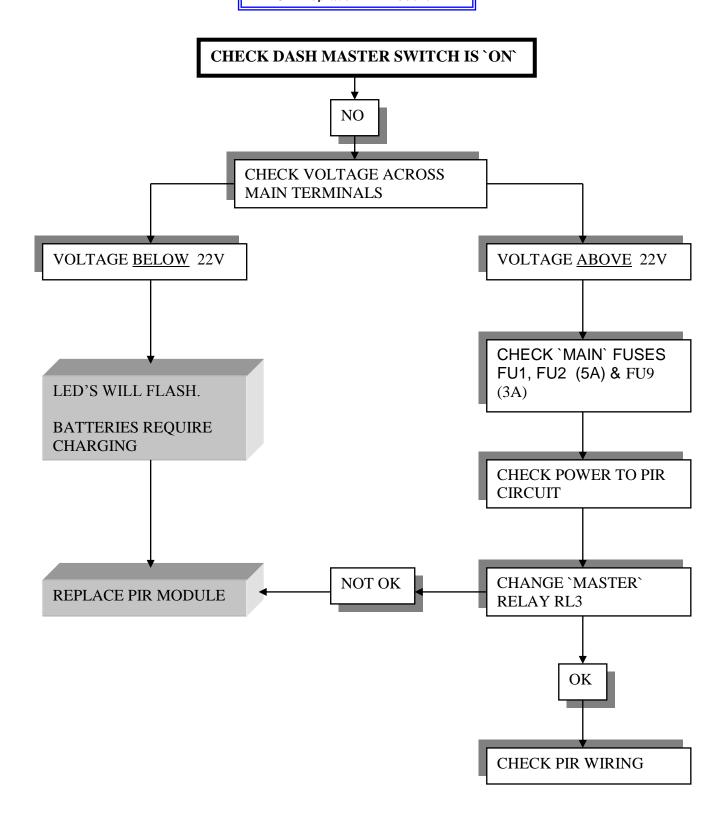
#### **Potential Cubicle Faults**

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

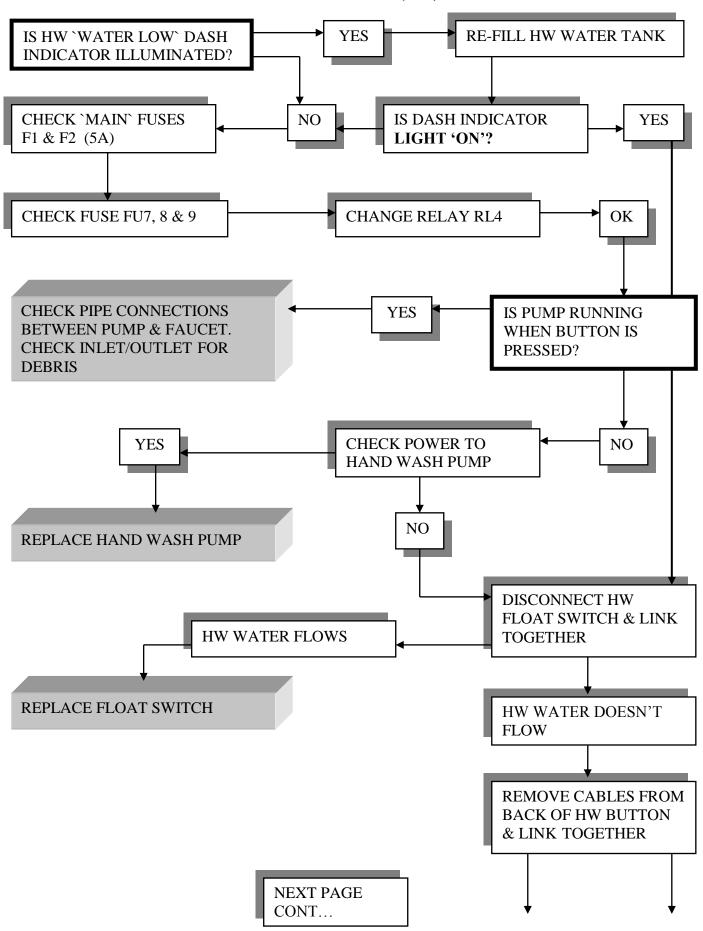
#### **Toilet Fails To Power Up**

### **Rapid Antidotes**

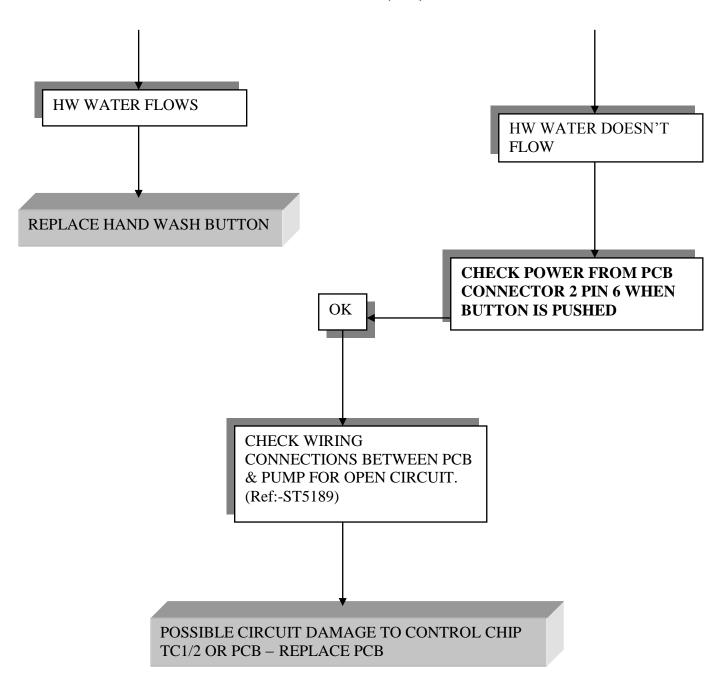
- Recharge batteries
- Check fuses
- o Replace PIR module



#### No Water From Hand Wash (HW) Faucet



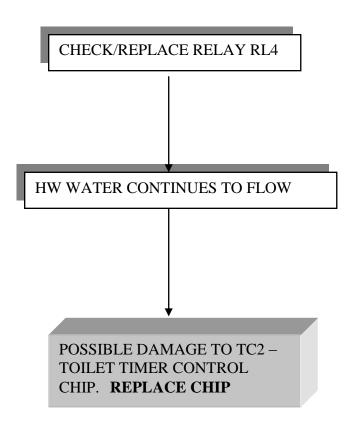
#### No Water From Hand Wash (HW) Faucet - cont.....



## **Rapid Antidotes**

- o Check fuses
- o Check inlet/outlet for debris
- o Replace hand wash pump
- o Replace float switch
- o Replace handwash button
- o Replace PCB

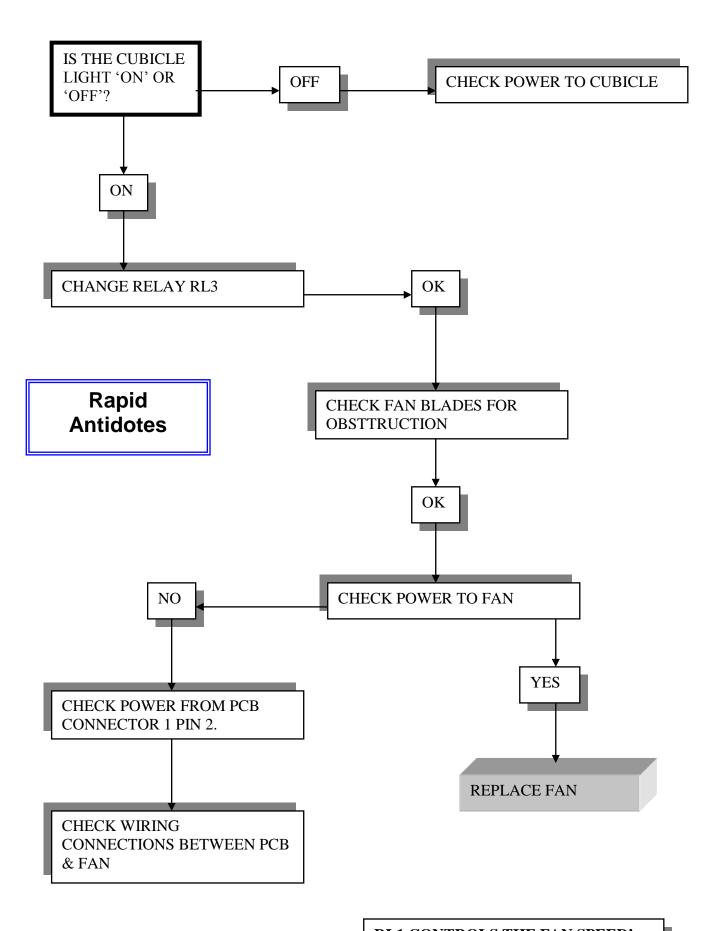
### **Hand Wash Water Runs Continuously**



**Rapid Antidotes** 

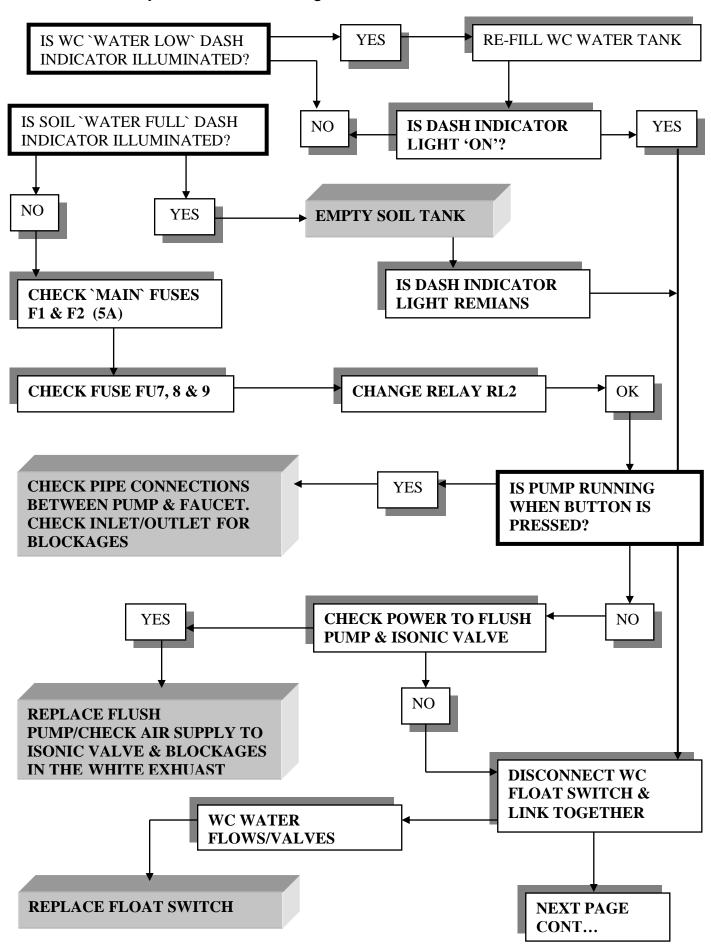
Replace Chip

#### **Extractor Fan Not Functioning**

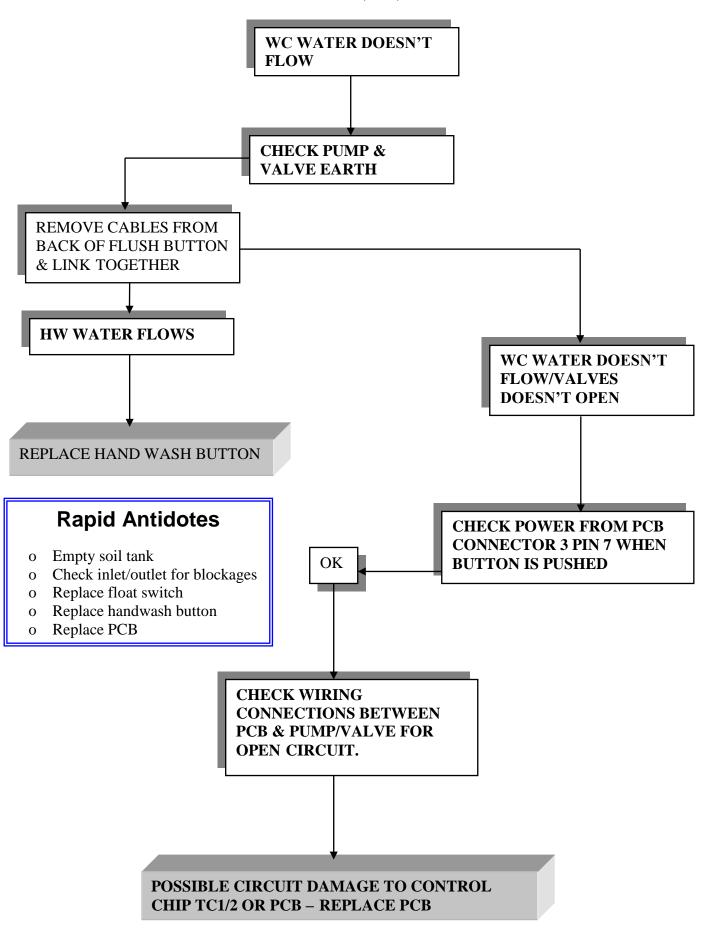


**RL1 CONTROLS THE FAN SPEED!** 

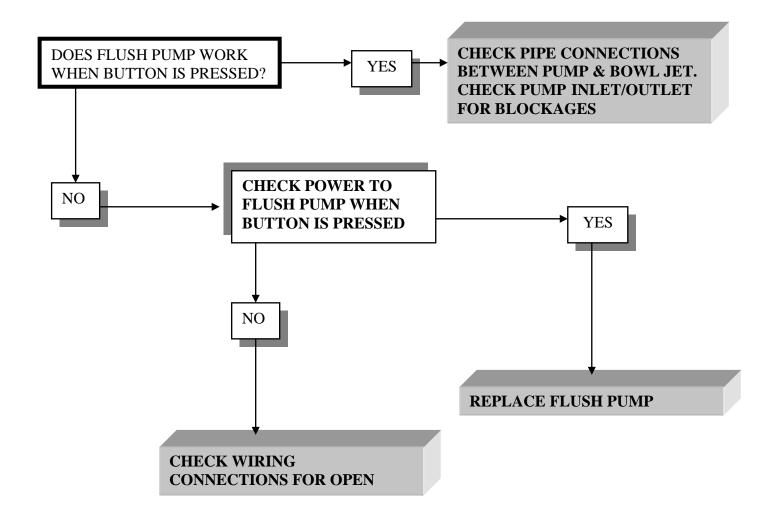
Hydro-Jet Not Working - No Water or Pneumatic Valve



No Water From Hand Wash (HW) Faucet - cont.....



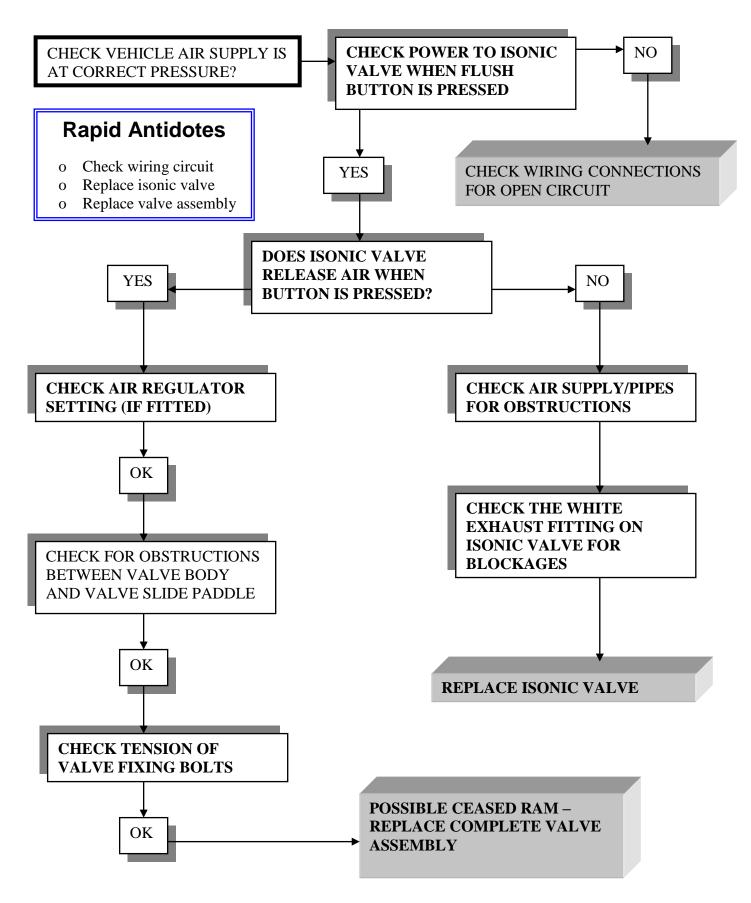
### Hydro-Jet Pneumatic Valve Opens - No Water



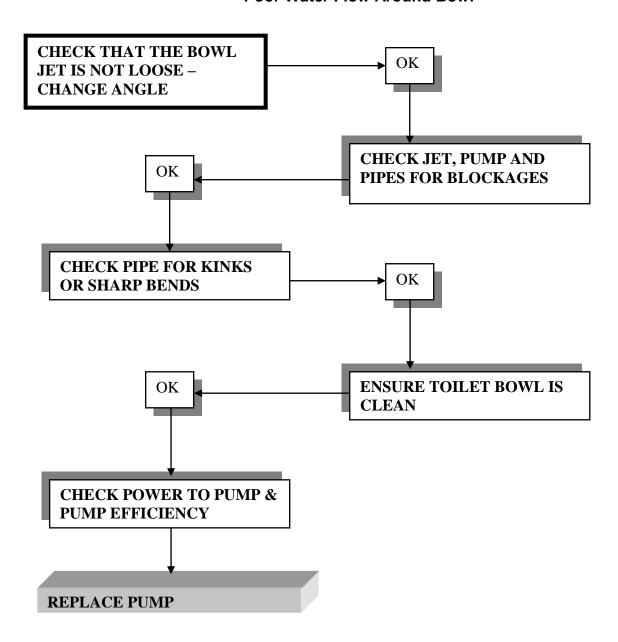
## **Rapid Antidotes**

- o Check pump inlet/outlet
- o Replace flush pump
- o Check wiring circuit

### Hydro-Jet Water Flows - Pneumatic Valve Does Not Open



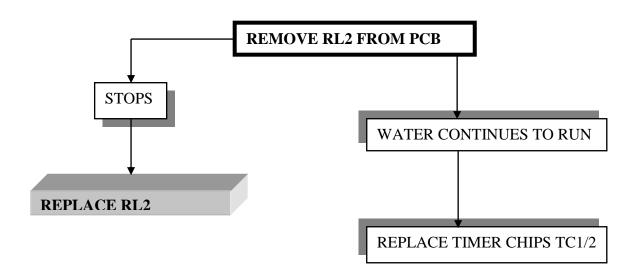
#### **Poor Water Flow Around Bowl**



## Rapid Antidotes

o Replace pump

### **Hydro-Jet Flushing Constantly**

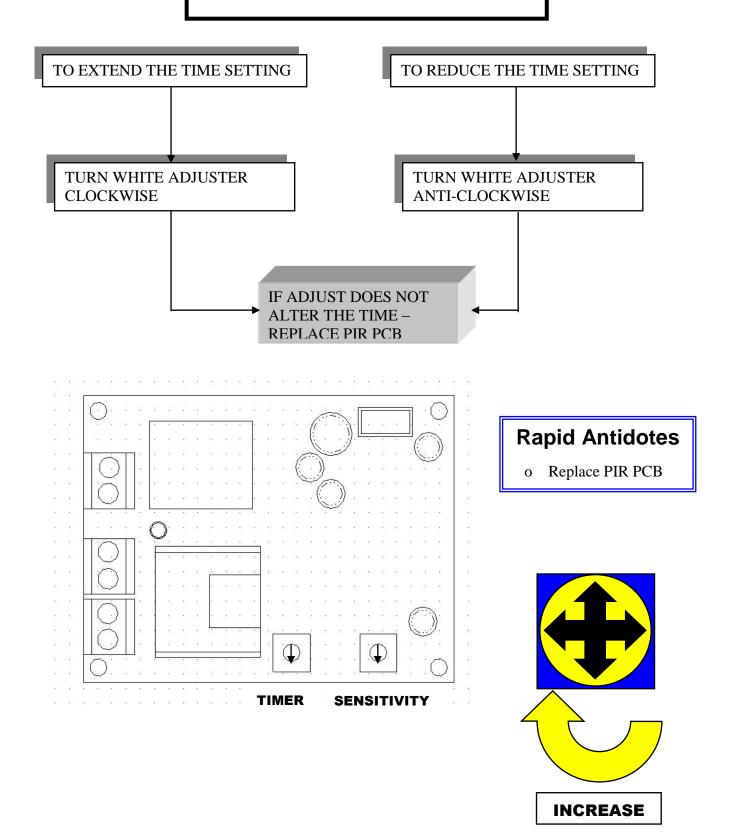


## **Rapid Antidotes**

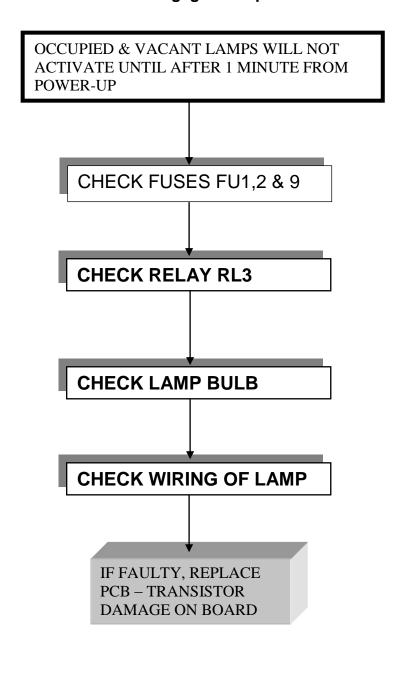
o Replace RL2

#### Interior Lamp Stays On Too Long/Not Long Enough

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

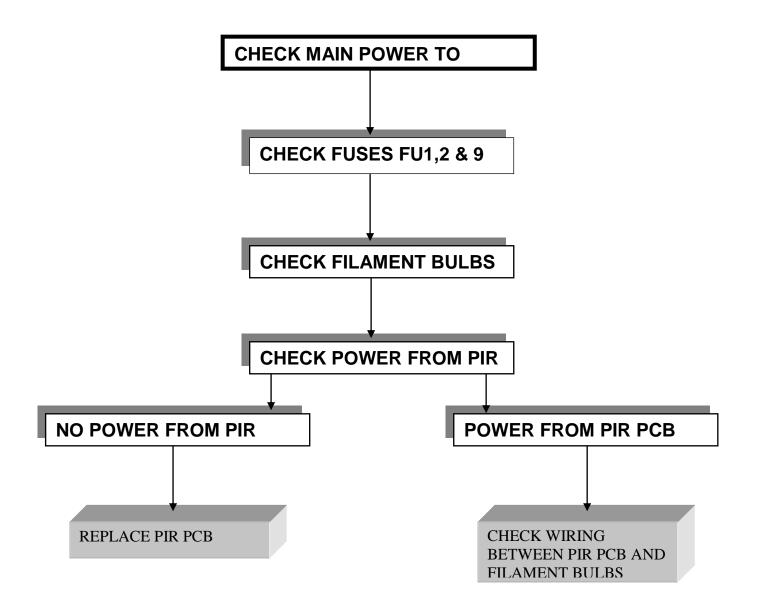


#### **Vacant/Engaged Lamp Fails**



Rapid Antidotes

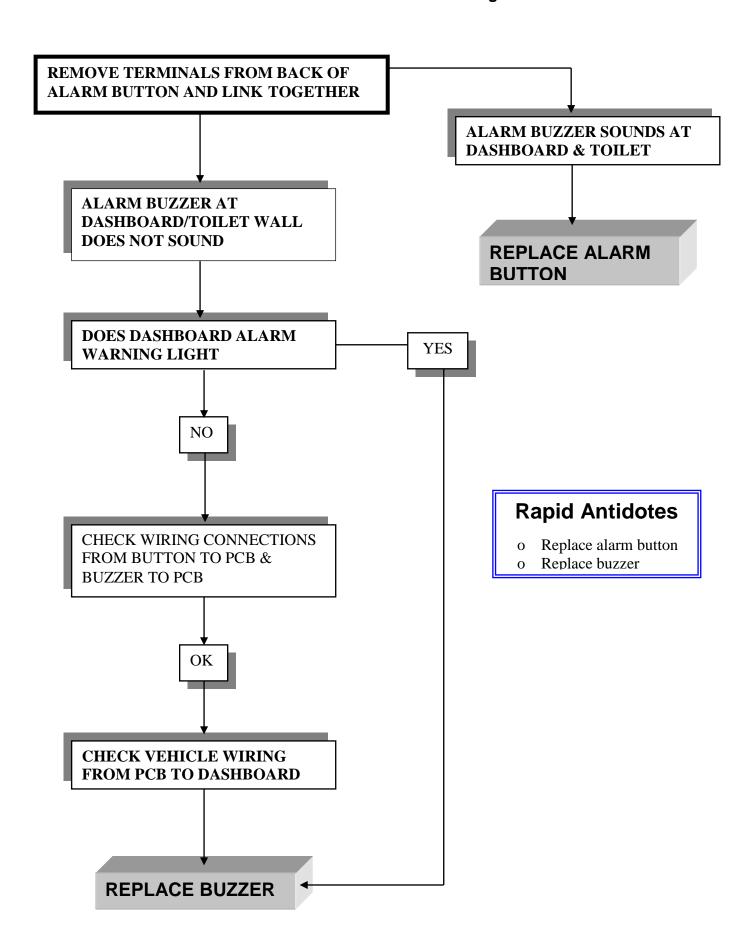
#### **Interior Lamp Fails**



## **Rapid Antidotes**

- o Replace PCB
- o Check wiring between PIR, PCB and bulbs

#### **Alarm Button/Buzzer Not Working**



#### **Bad Toilet Odour**

