

2050RS Toilet Cubicle



Manual

CONTENTS

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 *we* 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 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.
 - Switch on power to the cubicle (see page 3) 4.
 - Press the flush button to open the toilet valve and drop the 5. 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.

<u>Note</u>

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!

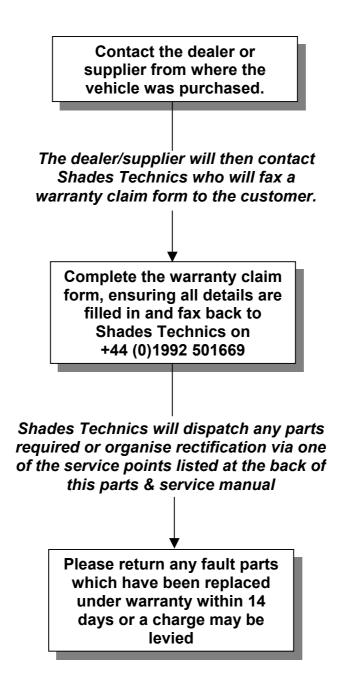
Fault Reporting Procedure

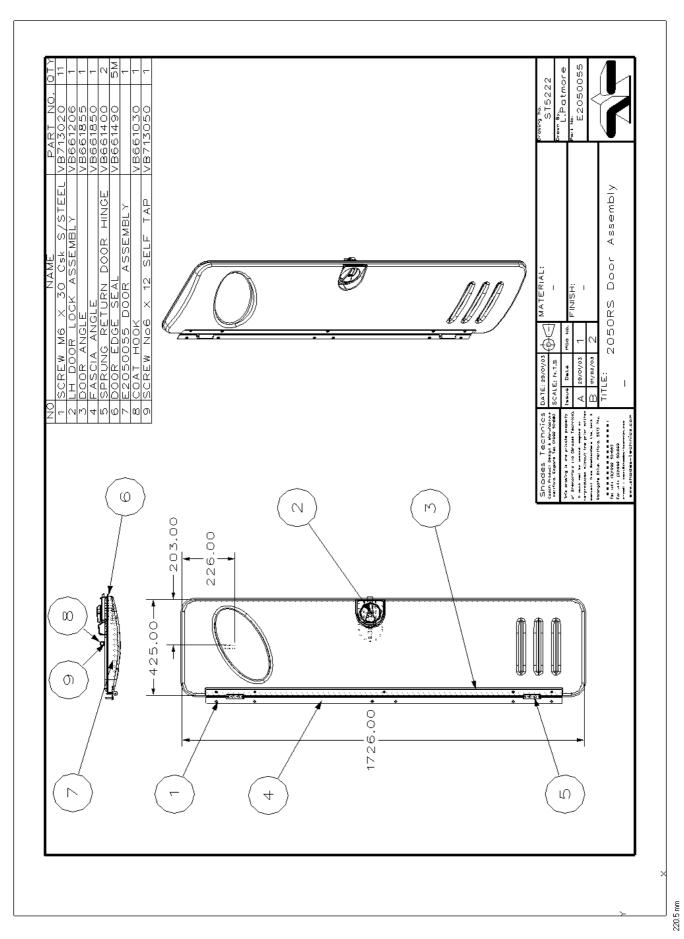
- 1. In the unlikely event of a fault occurring an emergency parts kit has been supplied along with the enclosed comprehensive fault analysis flow chart
- 2. Using these charts, determine the cause of the fault and replace the faulty item from the kit if possible.
- 3. To order a replacement kit or non-kit 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.

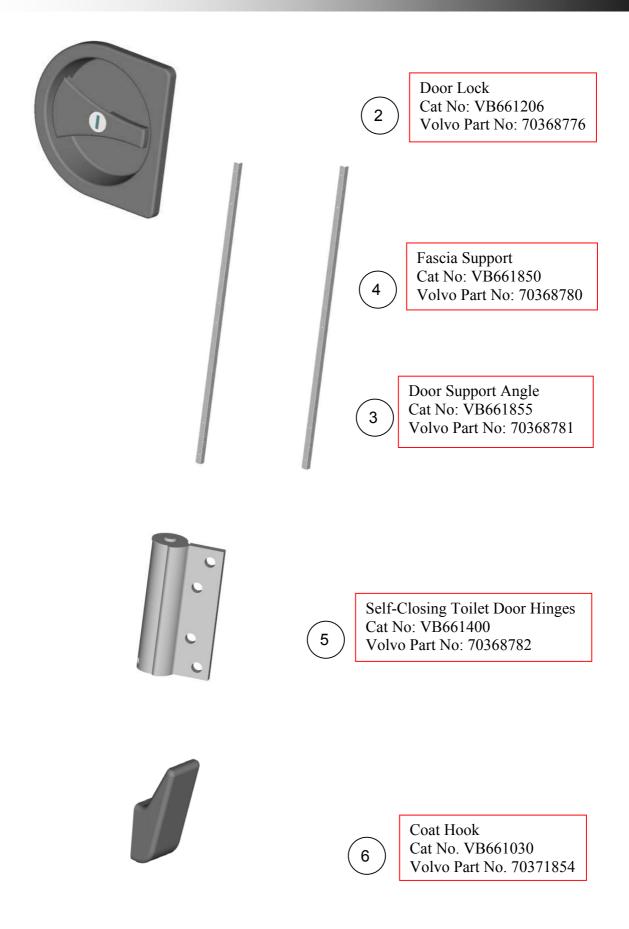
Notes:

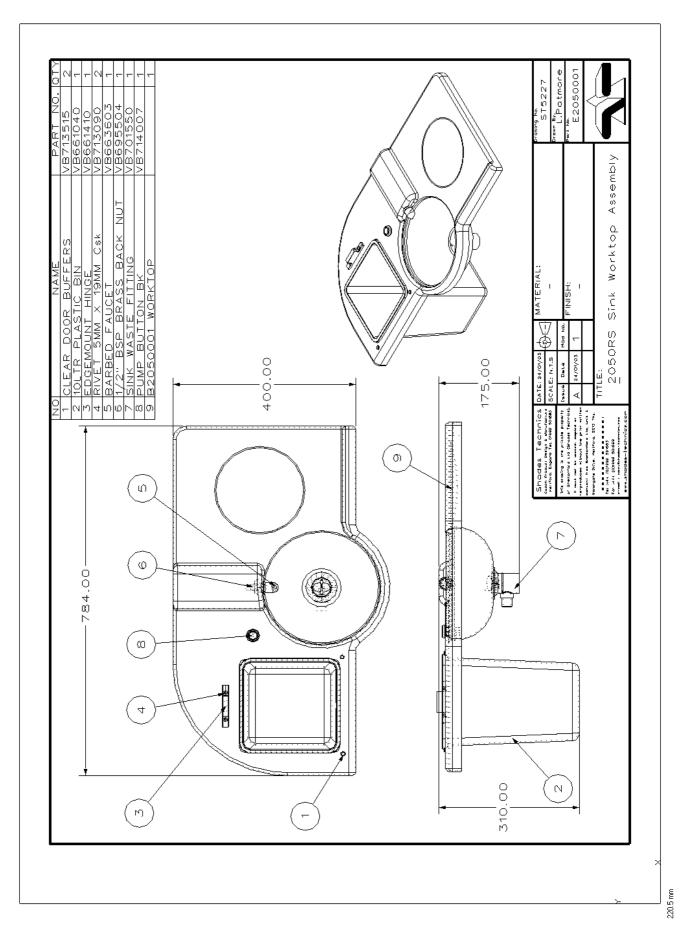
• Tampering, unauthorised involvement or preventable damage will result in a charge being levied

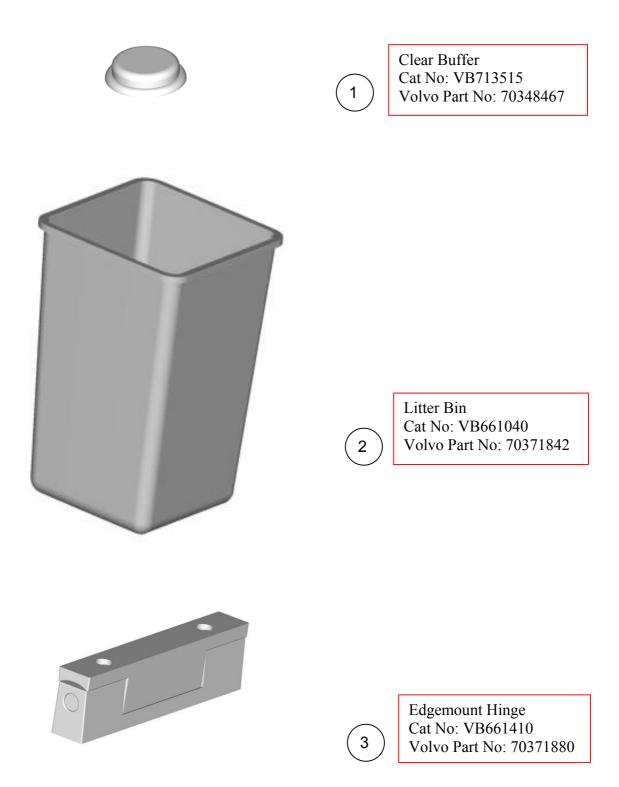
Shades Technics offer a comprehensive warranty cover for all products, valid for 24 months from the vehicle's date in service.





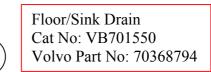


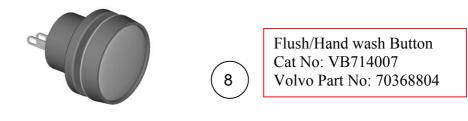




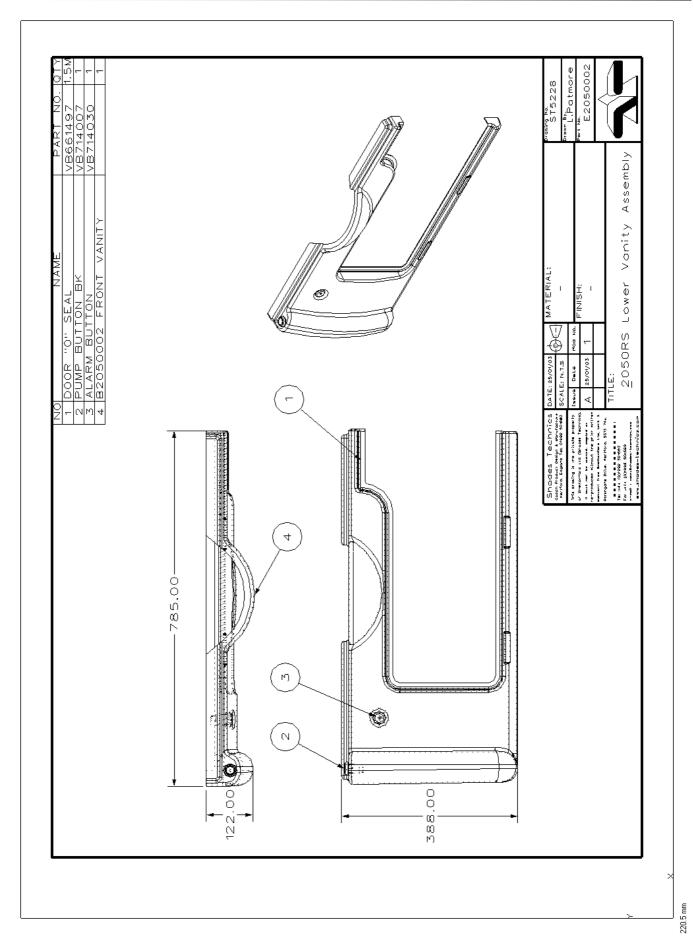




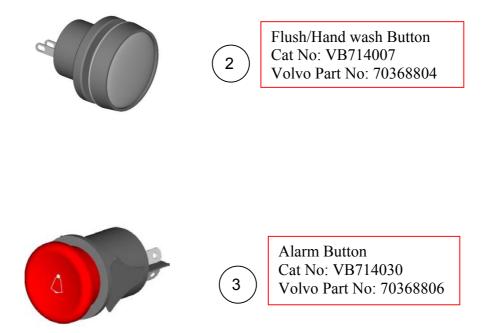


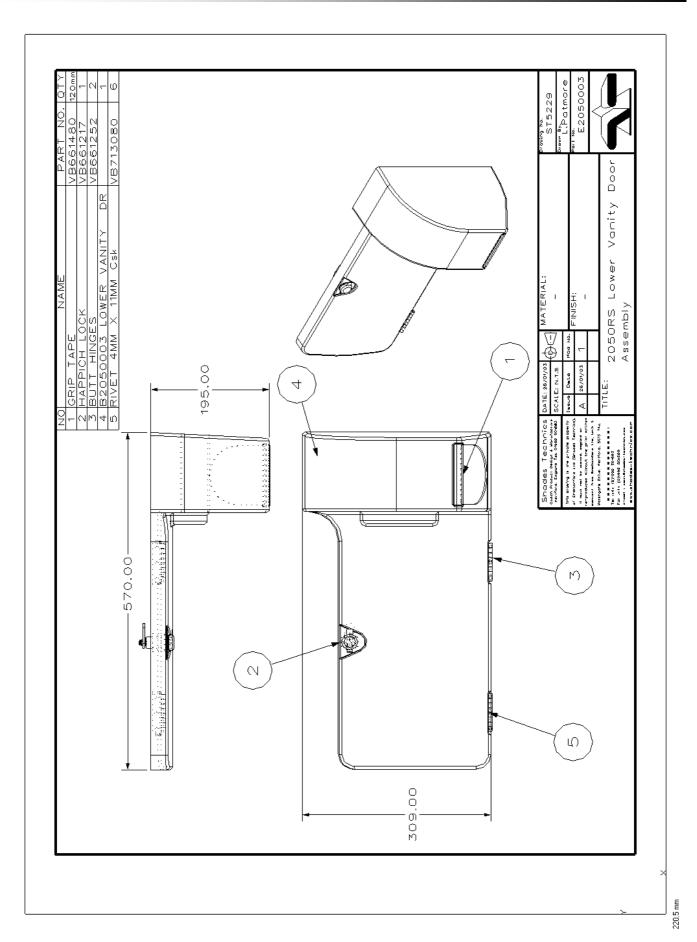


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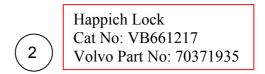


Cubicle Vanity Spares





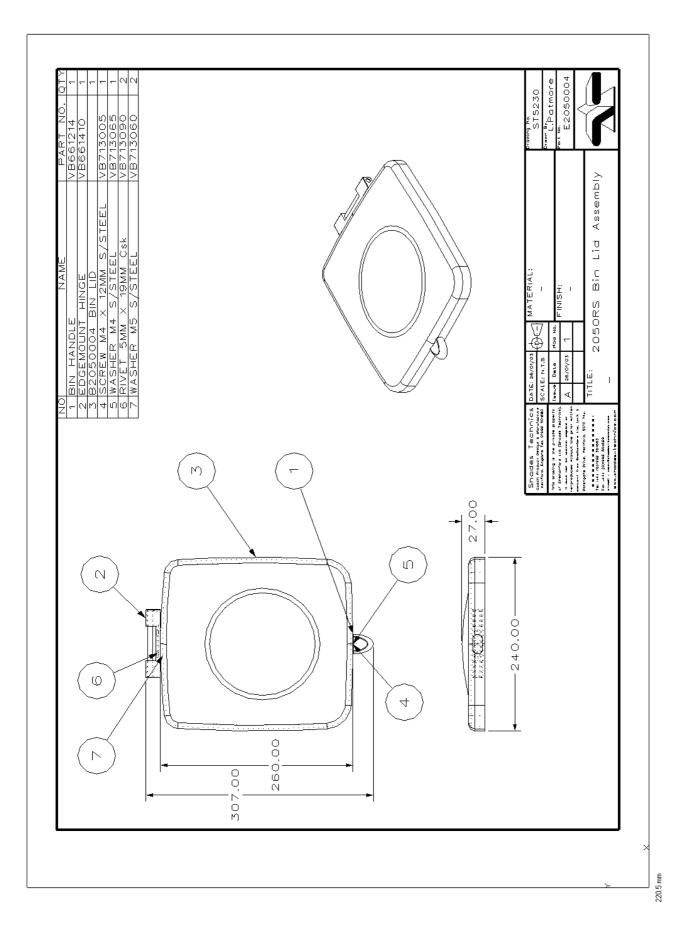


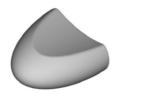




Butt Hinge Cat No: VB661252 Volvo Part No: 70371846

3

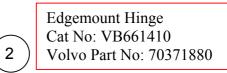


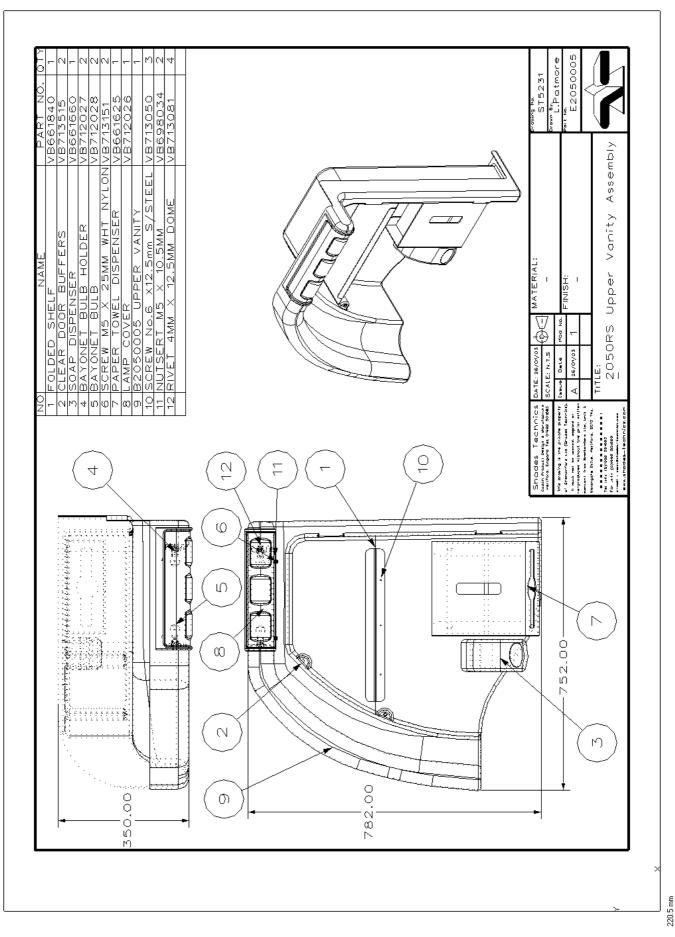


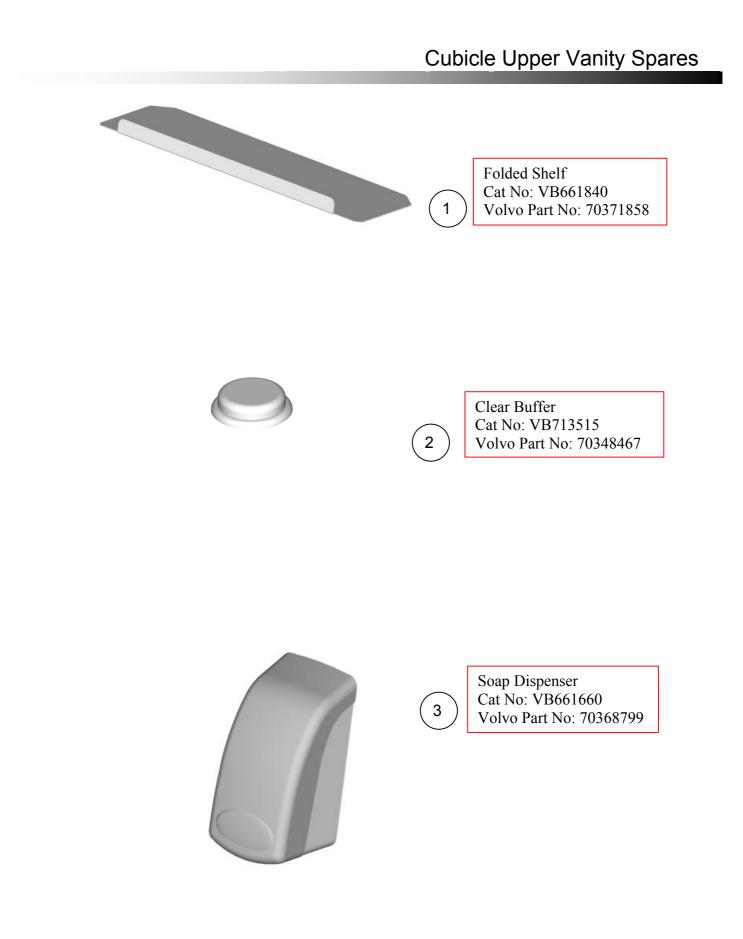
Litter Bin Knob Cat No: VB661214 Volvo Part No: 70371844

1

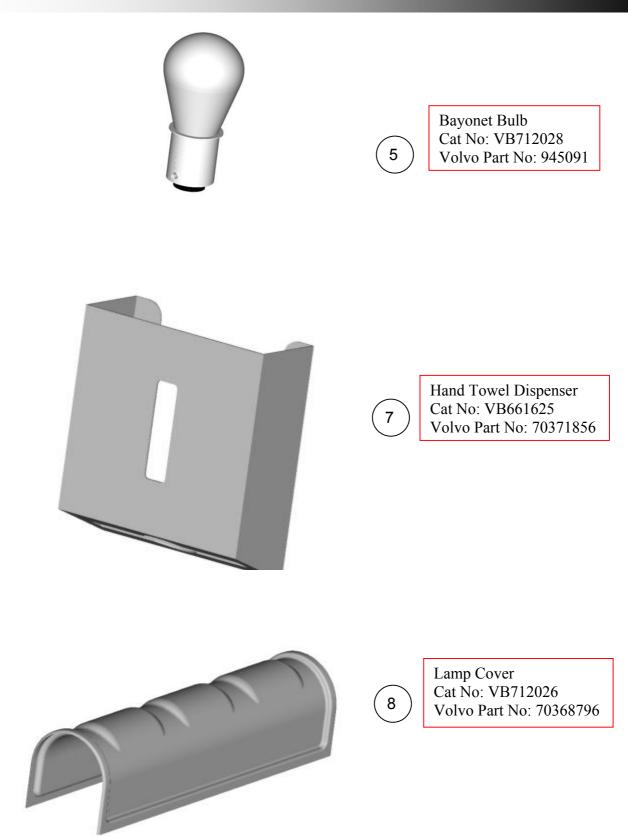


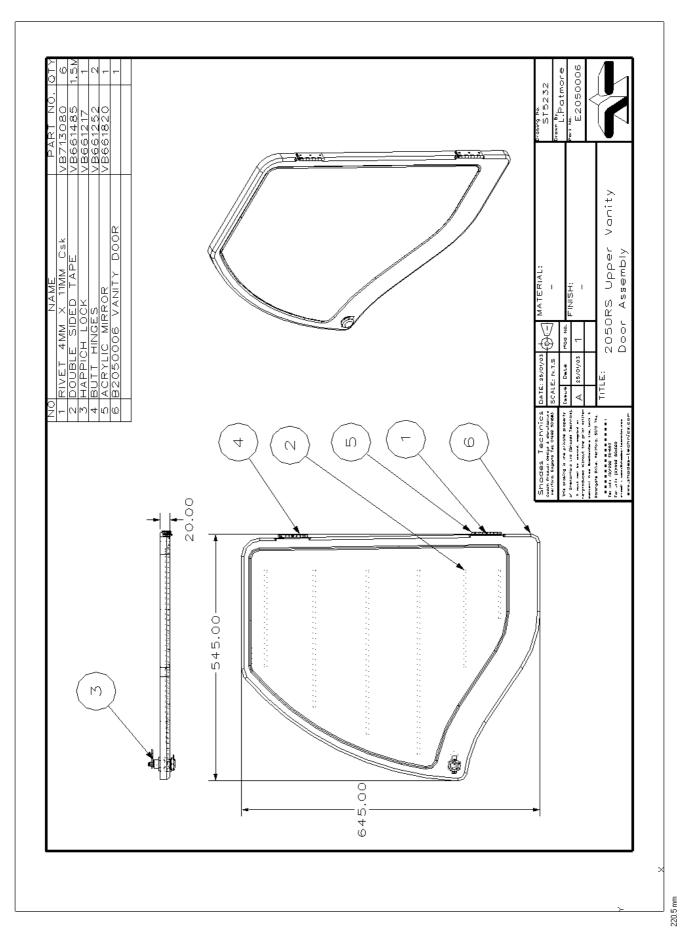


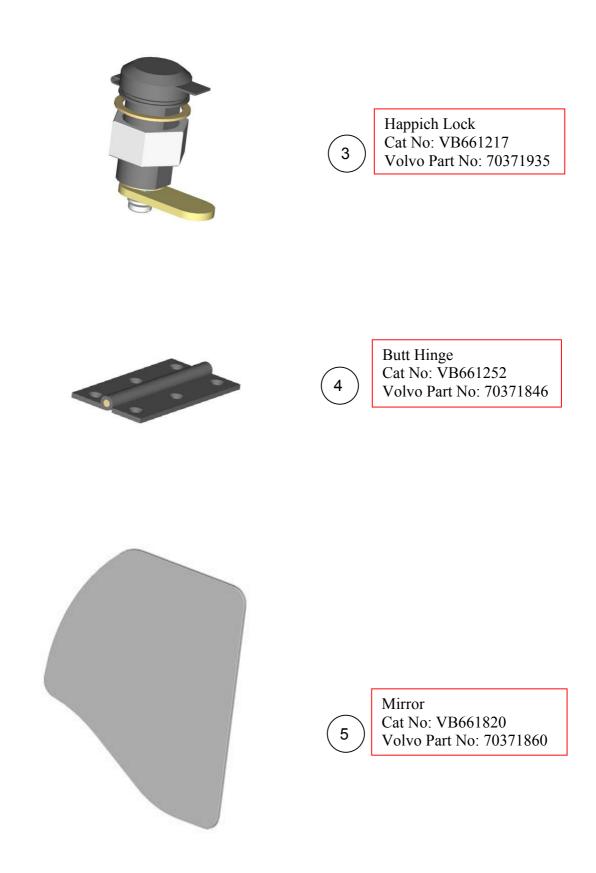


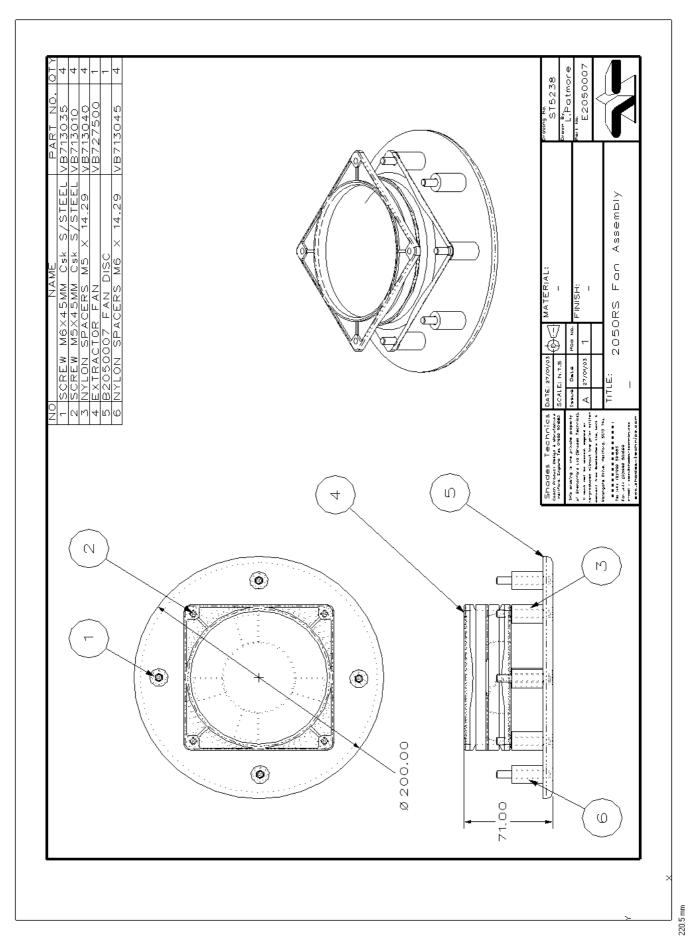


Cubi7cle Upper Vanity Spares





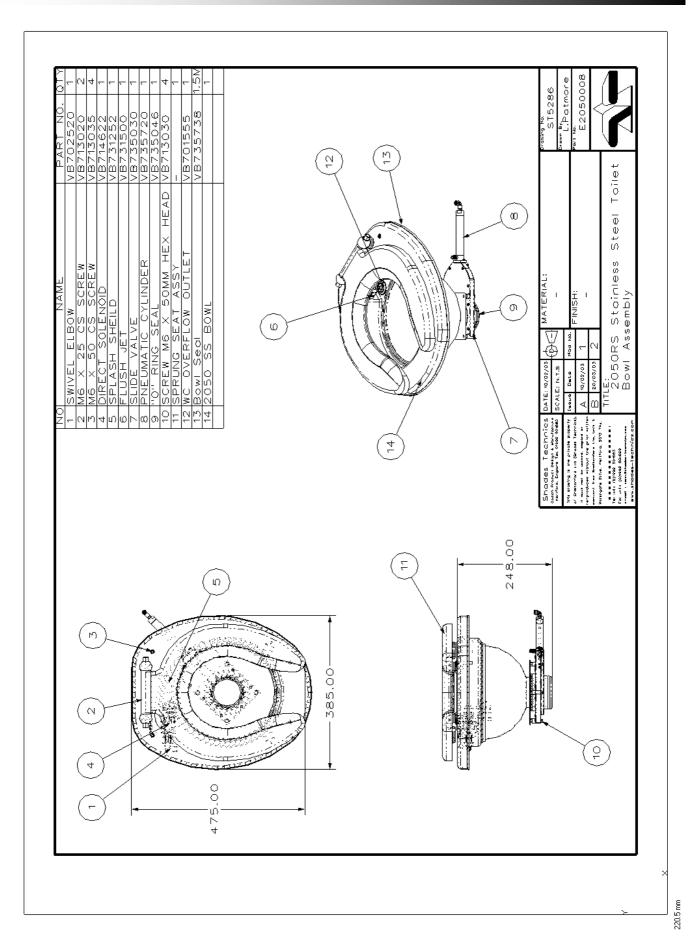






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Ventilator Fan Cat No: VB727500 Volvo Part No: 70368746

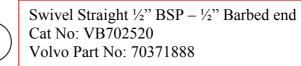


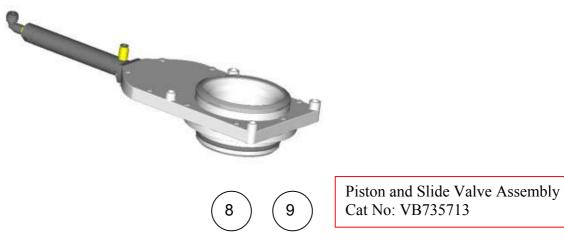
Cubicle Toilet Seat Spares



S/Steel Bowl (no seat) Cat No: VB731250 Volvo Part No: 70368829

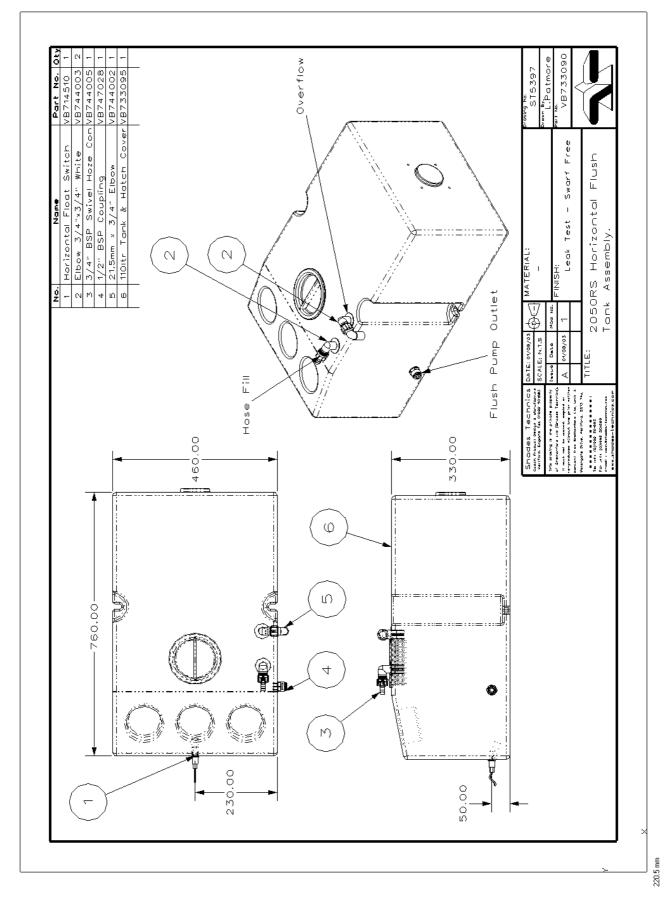


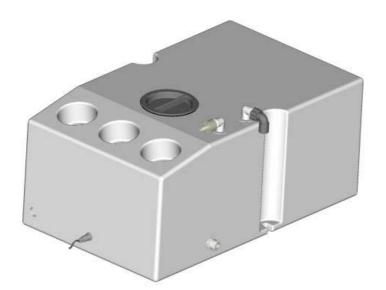




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Cat No: VB735713





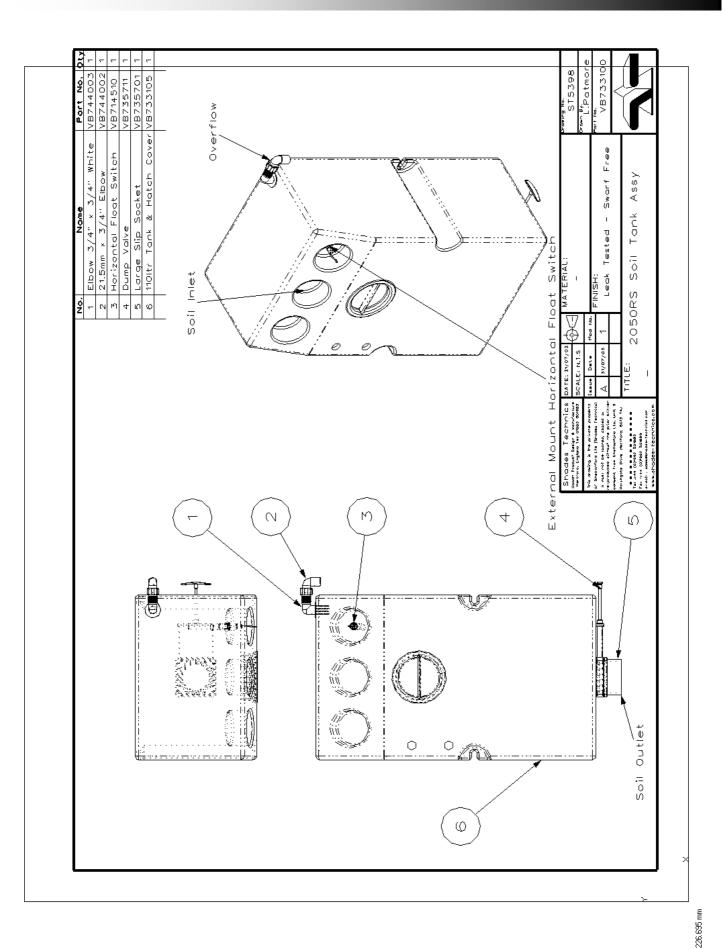
Flush Tank Cat No: VB733090 Volvo Part No: 70371876

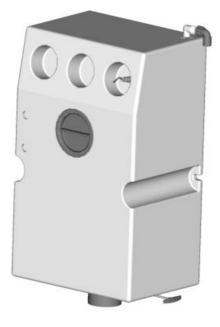




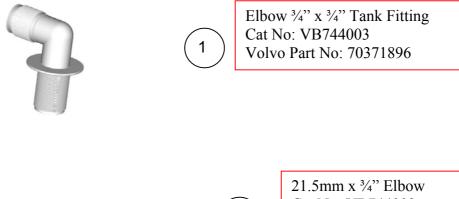
5 Cat I Volv

21.5mm x ³/₄" Elbow Cat No: VB744002 Volvo Part No: 70378190





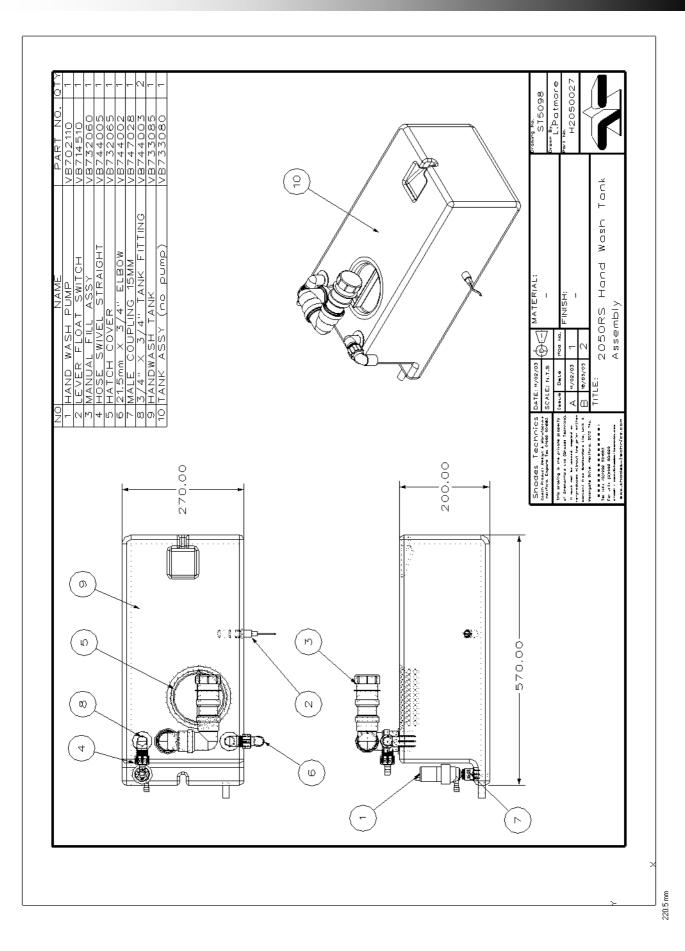
Soil Tank Cat No: VB733100 Volvo Part No: 70371872

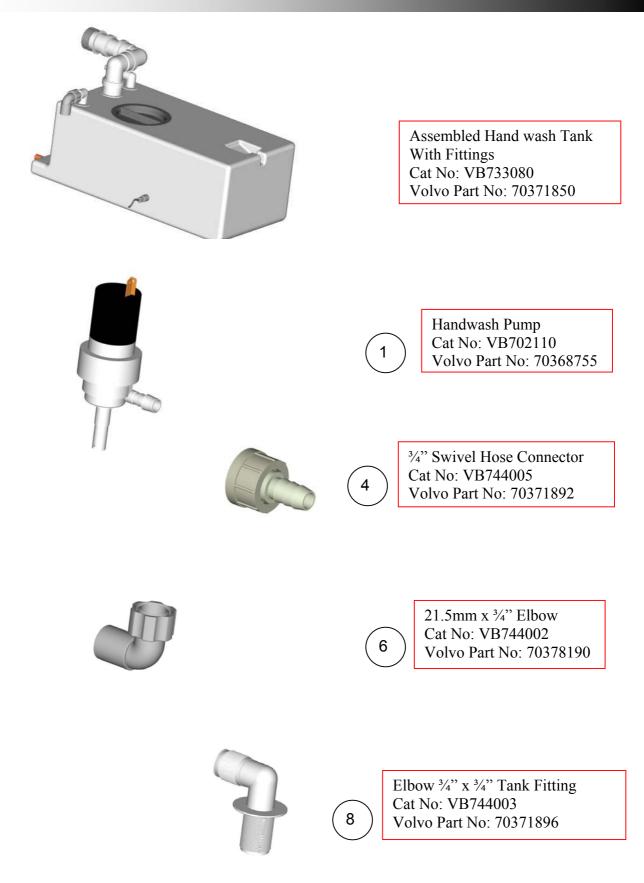


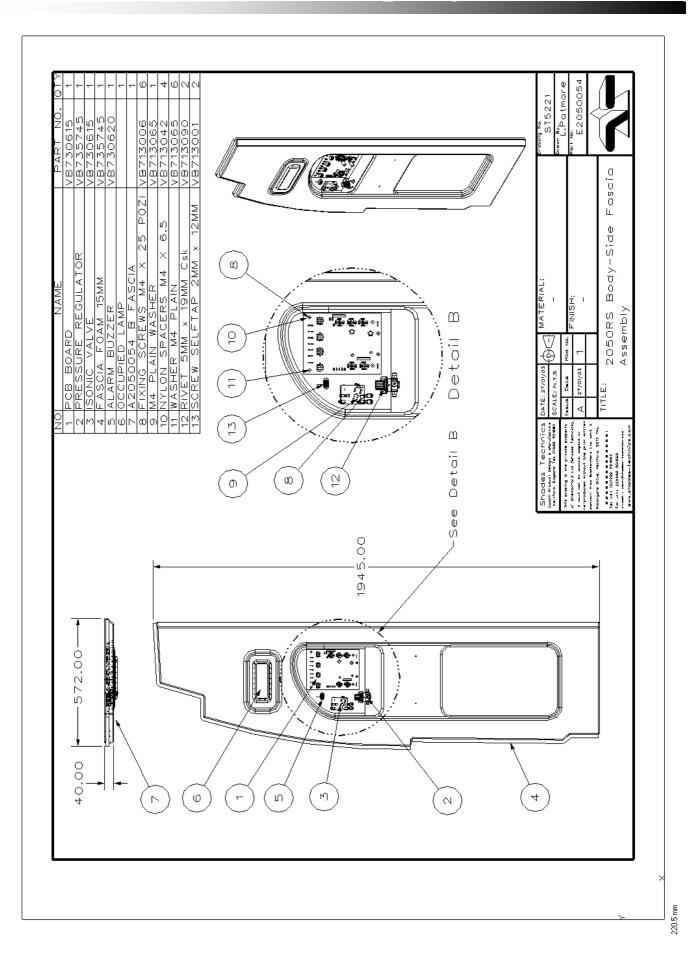


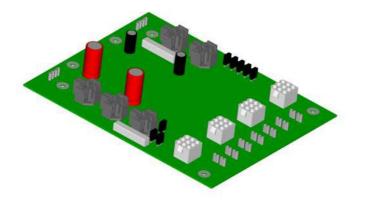
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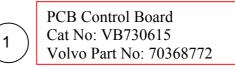
21.5mm x ³⁄₄" Elbow Cat No: VB744002 Volvo Part No: 70378190



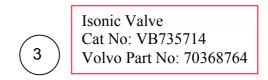


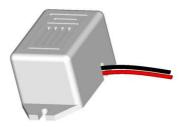


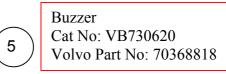


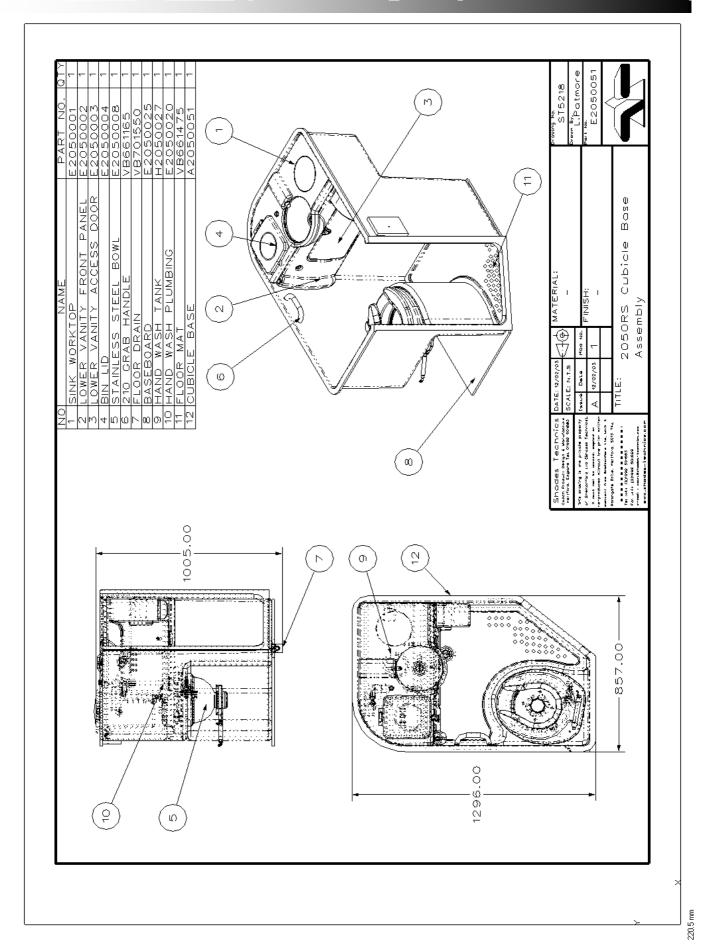




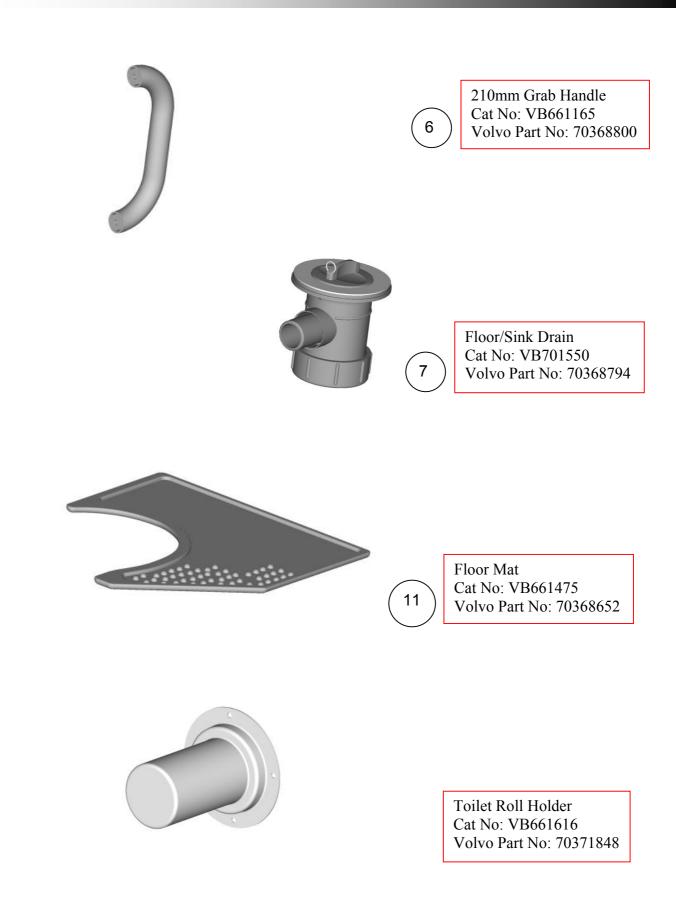


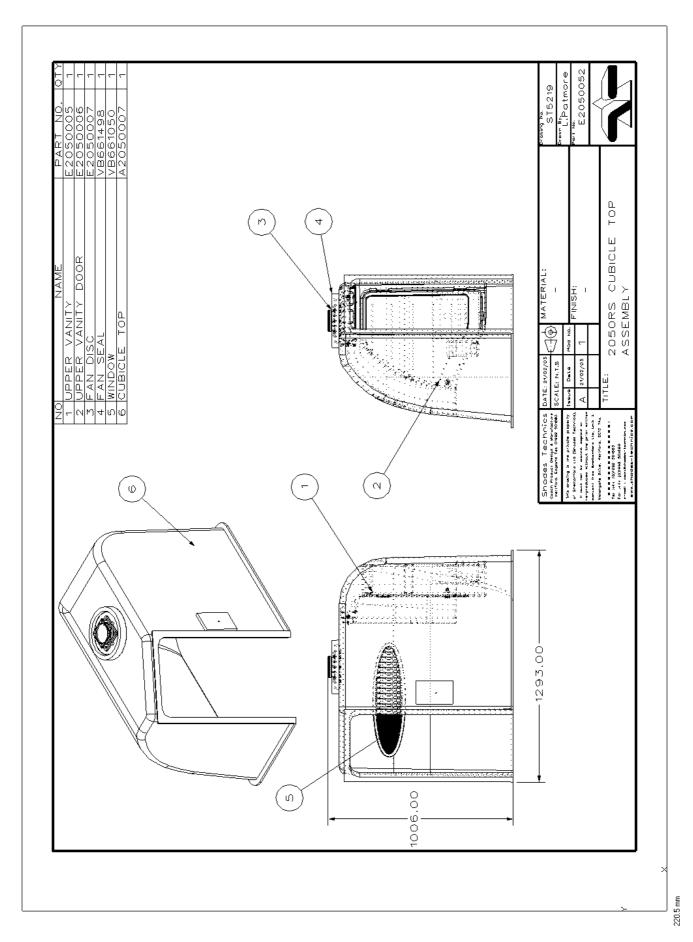




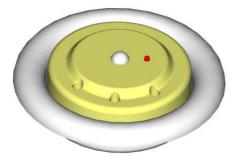


Cubicle Base Spares



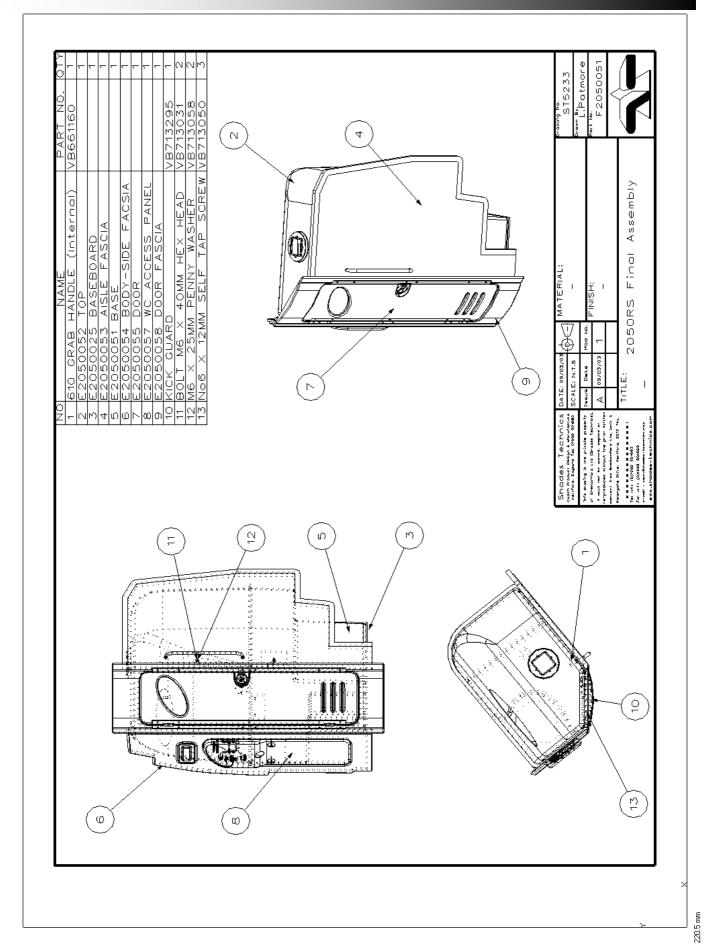


Cubicle Top Spares

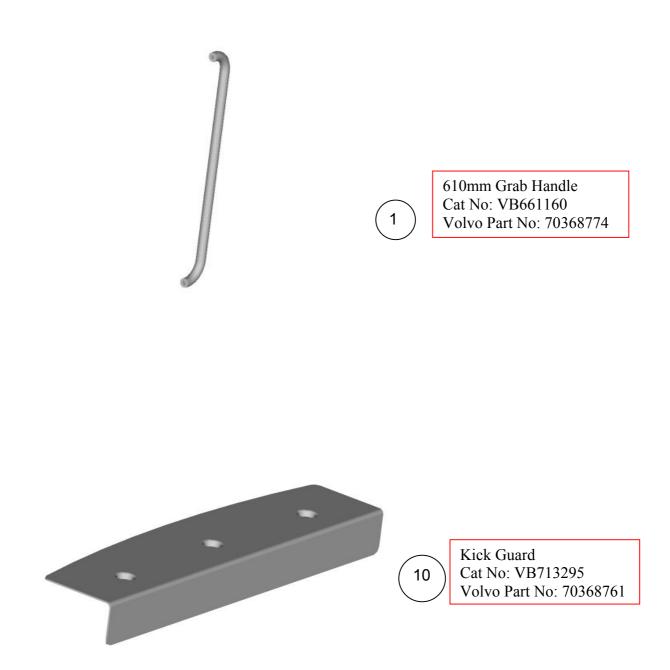


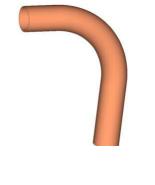
PIR Sensor Assy Cat No: VB712025 Volvo Part No: 70368810

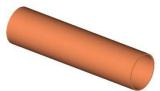




Cubicle External Spares







110mm Sweep Bend x 1000mm long Cat. No.: VB735755 Volvo Part No. 70371864

> 110mm Sweep Bend Extension Cat No: VB735756



110mm Soil Pipe Coupling Cat No: VB735757

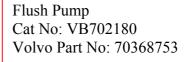


110mm Straight Pan Connector with Gasket Cat No: VB735759

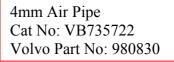


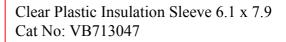
90mm ID x 38mm Grey Socket Ring Cat No: VB735762













Terry Clip Cat No: VB713285 Volvo Part No: 70371905

Door Striker Angle Cat No: VB661860 Volvo Part No: 70368757



Wing Nuts Cat No: VB713155 Volvo Part No: 70368778

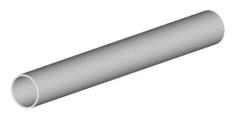












Knuckle Bend Cat No: VB744120 Volvo Part No: 70371889

Shut off Tap Cat No: VB747037 Volvo Part No: 70371895

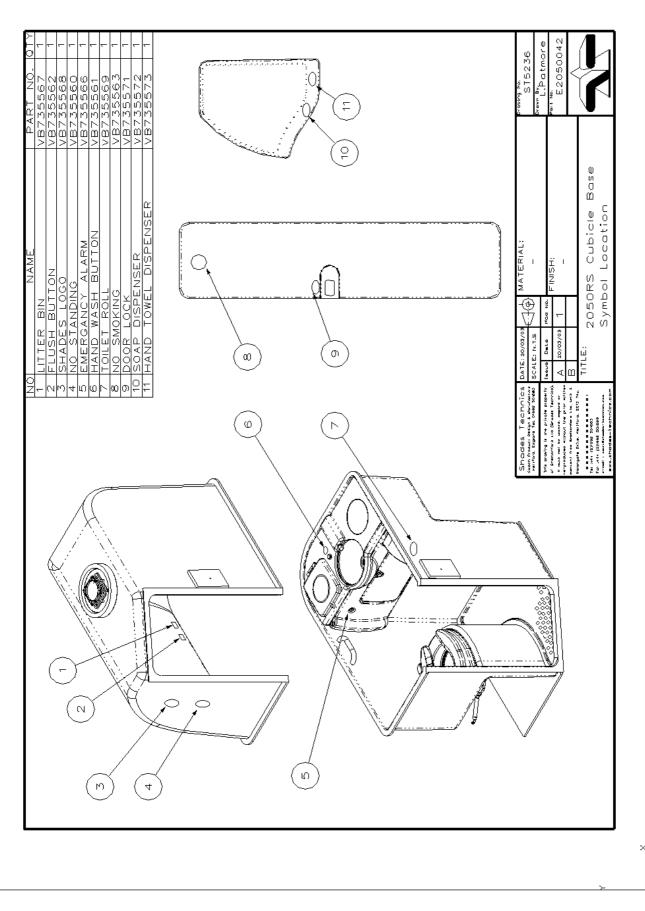
> T Push Fit Cat No: VB744121 Volvo Part No: 70371899

¹/₂" Potable Hose Cat No: VB744030 Volvo Part No: 70371923

> 12-22 Hose Clip Cat No: VB744041 Part No: 943471

21.5mm Rigid Pipe Cat No: VB747055 Volvo Part No: 70371897



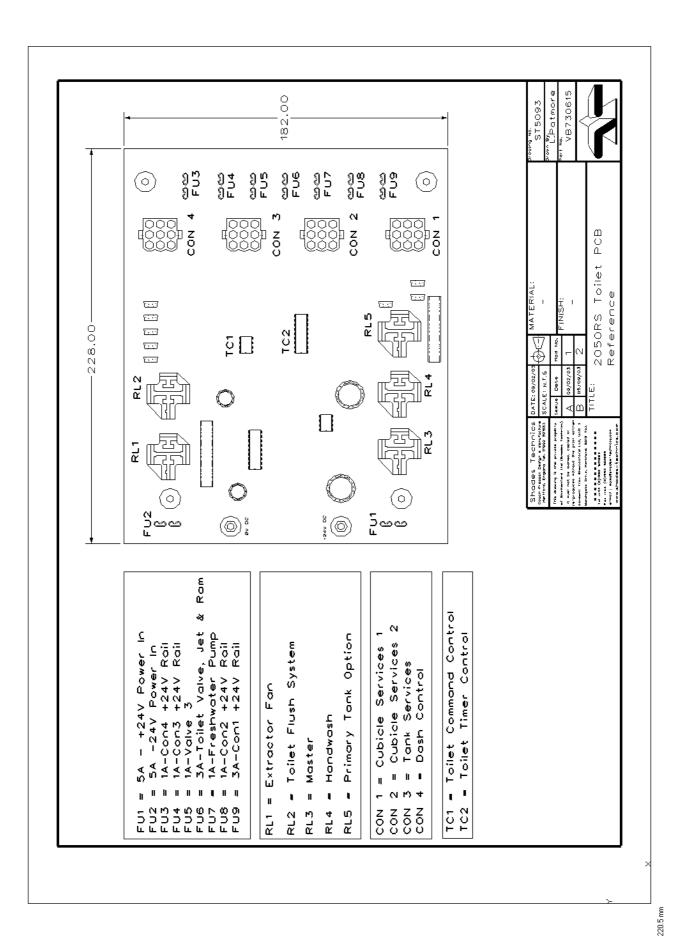


220.5 mm

Cubicle Legends



PCB Layout



Cubicle Wiring

