Type 1

Type 2

Type 3

Installation and Operation Manual for Stainless Steel Wall Faced Toilet Pans

– Heavy Duty – Top Access

This manual is suitable for the following models:

Standard Height Models:	**TOILET PAN WALL FACED**
SPPL.TP.WF.1.S.S.TA	Toilet Pan Wall Faced – Type 1 – Standard Height - Standard Spec – Top Access
SPPL.TP.WF.1.S.S.RA	Toilet Pan Wall Faced – Type 1 – Standard Height - Standard Spec – Rear Access
SPPL.TP.WF.2.S.S.TA	Toilet Pan Wall Faced – Type 2 – Standard Height - Standard Spec – Top Access
SPPL.TP.WF.2.S.HD.TA	Toilet Pan Wall Faced – Type 2 – Standard Height – Heavy Duty – Top Access
SPPL.TP.WF.3.S.S.BSA	Toilet Pan Wall Faced - Type 3 - Standard Height - Standard Spec - Both Side Access
SPPL.TP.WF.3.S.HD.BSA	Toilet Pan Wall Faced - Type 3 - Standard Height - Heavy Duty - Both Side Access
SPPL.TP.WF.3.S.S.LSA	Toilet Pan Wall Faced - Type 3 - Standard Height - Standard Spec - Left Side Access
SPPL.TP.WF.3.S.HD.LSA	Toilet Pan Wall Faced - Type 3 - Standard Height - Heavy Duty - Left Side Access
SPPL.TP.WF.3.S.S.RSA	Toilet Pan Wall Faced - Type 3 - Standard Height - Standard Spec - Right Side Access
SPPL.TP.WF.3.S.HD.RSA	Toilet Pan Wall Faced - Type 3 - Standard Height - Heavy Duty - Right Side Access
SPPL.TP.WF.3.S.S.RA	Toilet Pan Wall Faced - Type 3 - Standard Height - Standard Spec - Rear Access
SPPL.TP.WF.3.S.HD.RA	Toilet Pan Wall Faced - Type 3 - Standard Height - Heavy Duty - Rear Access
Disabled Height Models:	**TOILET PAN WALL FACED**
SPPL.TP.WF.1.D.S.TA	Toilet Pan Wall Faced – Type 1 – Disabled Height - Standard Spec – Top Access
SPPL.TP.WF.1.D.S.RA	Toilet Pan Wall Faced – Type 1 – Disabled Height - Standard Spec – Rear Access
SPPL.TP.WF.2.D.S.TA	Toilet Pan Wall Faced – Type 2 – Disabled Height - Standard Spec – Top Access
SPPL.TP.WF.2.D.HD.TA	Toilet Pan Wall Faced – Type 2 – Disabled Height – Heavy Duty – Top Access
SPPL.TP.WF.3.D.S.BSA	Toilet Pan Wall Faced - Type 3 - Disabled Height - Standard Spec - Both Side Access
SPPL.TP.WF.3.D.HD.BSA	Toilet Pan Wall Faced - Type 3 - Disabled Height - Heavy Duty - Both Side Access
SPPL.TP.WF.3.D.S.LSA	Toilet Pan Wall Faced - Type 3 - Disabled Height- Standard Spec - Left Side Access
SPPL.TP.WF.3.D.HD.LSA	Toilet Pan Wall Faced - Type 3 - Disabled Height - Heavy Duty - Left Side Access
SPPL.TP.WF.3.D.S.RSA	Toilet Pan Wall Faced - Type 3 - Disabled Height - Standard Spec - Right Side Access
SPPL.TP.WF.3.D.HD.RSA	Toilet Pan Wall Faced - Type 3 - Disabled Height - Heavy Duty - Right Side Access
SPPL.TP.WF.3.D.S.RA	Toilet Pan Wall Faced - Type 3 - Disabled Height - Standard Spec - Rear Access
SPPL.TP.WF.3.D.HD.RA	Toilet Pan Wall Faced - Type 3 - Disabled Height - Heavy Duty - Rear Access

CONTENTS

RECOMMENDATIONS

Upon receiving a Stoddart product, inspect immediately for any visible signs of shipping damage and notify the carrier immediately. When removing the product from its packing, be careful not to dent or scratch outer surface. Any concealed damage should be noted and reported immediately to the freight carrier. A claim should be filed with carrier if appropriate.

RESPONSIBILITIES

Stoddart thoroughly inspect all products they are despatched from our factory. Stoddart Manufacturing will not accept responsibility for shipping damage.
The Plumber is responsible to ensure that the system is installed in accordance with all specific requirements of local codes and regulations (including AS 3500). If questions or complications should arise during the installation of a Stoddart product that cannot be solved using the accompanying instructions, please contact our offices or local representatives.

Note: It is the Plumbers responsibility to install this product in accordance with AS3500.

SCOPE

This product is designed to be used in institutions and public facilities where vandalism resistance and/or security is required. The product is manufactured to the requirements of AS1172.1 and associated reference standards. The models listed as "disabled" are designed to satisfy the relevant clauses of AS1428. The product is manufactured as a "P trap" design with a rear water inlet. P-S converters are commercially available for applications requiring S trap sewer connection.

FEATURES

- Fully shrouded stainless steel pan.
- Fully welded seamless outer construction.
- Secure access panels
- Flushing volume tested with specific flushing devices to achieve 4.5/3 litre flush.

REFERENCED AUSTRALIAN STANDARDS

Markings & Labels	Unit Marking to include Maker's Name, Model identification, Watermark, License No & Flushing volume Installation & Maintenance Manual to state valve manufacturers name / model to be used in a matched performance set Copper alloy products marked 'DR'	AS 1172.1–2005 Section 4 + AS 5200.000 – 2006 Appendix B + AS 6400 - 2005. Clause 2.4.6
Pan Materials	Stainless Steel	AS 1172.1 - Clause 5.3
Pan Outlet Dimension	Shall comply with the applicable clauses	AS 1172.1 - Clause 2.2.3
Pan Water Seal	Shall comply with the applicable clauses	AS 1172.1 - Clause 2.1
Pan Tests	Shall comply with the applicable clauses	AS 1172.1 - Clause 3.1-3.8 inclusive
Dezincification resistance	Dezincification resistance applicable to copper alloy components in contact with mains water	AS 2345 - 2006
Contamination of water	Products For Use In Contact With Drinking Water	AS 4020 - 2005
Pipes and Fittings	Dimensional compliance with relevant or corresponding Australian Standard for the pipe or fitting	AS 3688 - 2005
Joints (i.e. Spigots, sockets, flanges, or other joint components, where interfacing other authorized components)	Dimensional compliance with relevant or corresponding Australian Standard for the pipe or fitting Pipe Threads of Whitworth Form. – Part 2 Fastening Pipe Threads	AS 3688 - 2005
Flushing Valve	Shall comply with AS 5200.020	AS 5200.020 - 2004
Installation	Warranty / Installation instructions shall be provided by the manufacture	AS3500.2 - 2003

INSTALLATION OF WALL FACED TOILET PAN

Water Supply Requirements

All Stoddart Toilets that are coupled with a flush valve require the following:

- Flow to the flush valve face must be 1.0-1.5 litres/sec.
- Operating (dynamic) water pressure must be 250kPa minimum.
- Static-line pressure must not exceed the limits of the specified valve.
- It is recommended to install a water filter to protect the flushing valve.
- Water supply connection for flush valve must be 20mm diameter.

All Stoddart Toilets that are coupled with a cistern require the following:

- Cistern chosen should meet relevant codes & water efficiency standards.
- For Disabled toilets, Cistern button must be 1100mm above FFL.
- Flush pipe fitting to toilet pan should be 40mm NB.
- Flush pipe should have 1 large radius bend only.

Installation of Pan to Wall & Floor

All Stoddart Toilets are supplied with mounting holes pre-punched for easy installation.

- Remove the packing from the toilet.
- Remove the access panels from the toilet.
- Locate the toilet in the correct position & set level.
- Check the alignment of the toilet connection pipes.
- Mark on the floor and the wall the mounting hole positions.
- Remove the toilet.
- If a flush valve is installed in the supply line, a flush test should be conducted to set timer to deliver correct volume of water**. Prior to installing Flush valves flush the lines first.**
- Install M10 fixing bolts in the wall and secure the Z-clip to floor.
- Fit the furnco flexible coupling to the discharge pipe.
- Fit the key seal to the inlet pipe. (*The entire key seal is to be inside the flush pipe when toilet is in position).*
- Position the toilet in the correct location whilst coupling the pipe-work.
- Tighten the flexible coupling fasteners and the wall mounting bolts.
- Apply “no-pick” sealant around base and wall.
- Test Flush mechanism and check for leaks.
- Clean stainless steel surfaces.

Note: Protect the product at all times by wrapping in plastic until all other work is complete and the system ready to be put into operation.

Electronic Flushing Device (Purchased Separately)

Approved Models:- Sanitron WC Electronic Dual Flush Valve Art. No. EDFV-01
(Alternative flushing valves and buttons can be paired to these toilets, however no performance testing has been conducted by Stoddart Manufacturing).

Description

The Sanitron WC Flush Valve Art. No. EDFV-01 is a mains powered (transformer 240V to 12V) Electronic Dual Flush for in ceiling or in-duct installation.

Function

A user pushes the full or half flush button to activate the flush. Prior to connecting the toilet, the plumber must test the flush volume for the actual line pressure & adjust the time on the flush controller to set the required flush volume. The half flush is adjusted automatically. A new flushing cycle can only be activated after the previous cycle has finished. To prevent misuse and enhance water saving the controller module will allow only a maximum of 6 flushes per minute. Once the valve has been flushed 6 times within one minute the controller will not allow another flush for 45 seconds.

Supplied with the Sanitron WC Electronic Dual Flush Valve EDFV-01 are the following components

1 x DFM-01 Electronic dual flush module
1 x TR-1 Transformer 240V to 12Vdc
1 x SV-1 Electronic Flush valve
3m extension cable for actuator buttons

Safety Precautions for Sanitron valves

- The WC Electronic Dual Flush Valve and its components are for indoor use only.
- Install the WC Electronic Dual Flush Valve and its' components only in a dry environment.
- When performing any work WC Electronic Dual Flush Valve or its' connected components the transformer has to be disconnected from the power supply.
- The transformer and the electronic module should be installed close to each other.
- The transformer and the electronic module should be installed as far away from the flush valve as the regulations require.
- Replace faulty components only with Sanitron original components .
- For the installation and operation observe all relevant electrical, safety plumbing and building standards.
- Some equipment may radiates heat do not insulate any supplied equipment.
- All supplied components should only be used for the purpose they are designed for.

Installation of a Sanitron Electronic Flushing Device

Note: All plumbing installation work have to be carried out in accordance with AS/NZS 3500.1 Standard

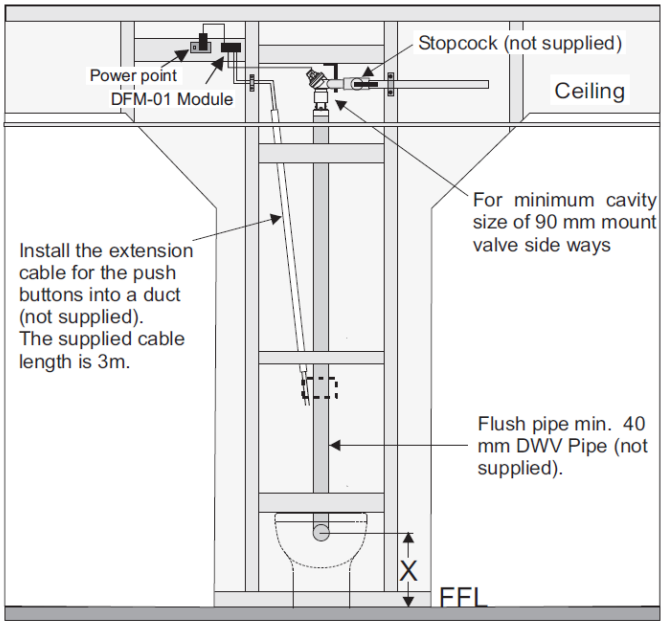
Rough-in

- Make sure during the planning phase that the proposed installation location (see fig.1&2) for the flush pipe and flush valve is obstruction free (do not install additional bends along the flush pipe other than the bend on the bottom of the flush pipe).
- Supply a 240 V power point inside the ceiling space or service duct (see fig.1 or 2, also 4 in Safety Precautions above). The cable length of the transformer is about 1.5m
- Install the DFM-01 electronic module close to the power point (see also 4 in Safety Precautions above).
- Determine the size and install the water supply pipe to the requirement of the installation (refer to the relevant standards, see also fig.4 page 4 for technical information on the flush valve). Install an appropriately sized ball valve as a stopcock (not supplied). The stopcock should be positioned right next to the flush valve.
- Install the flush valve and the flush-pipe (40 mm DWV not supplied) in the required location (see also fig.1 or 2).
- Make sure that all pipe work is clipped properly.
- Carry out all installation work as required by the pan supplier.
- **Prior to installing the solenoid valve head onto the flush valve flush the lines first.**
- Remove the cover plate from the flush valve and install the solenoid vale head (see fig.3).
- Test all plumbing connections for leaks. When the tests are finished close the stopcock.
- Install the supplied extension cables for the actuator buttons reaching from the DFM-01 module (see fig. 1 or to the future installation location of the buttons and secure the cable ends. It is recommended to install the cables in a cable-duct. When the wall is sheeted the ends of the cables have to be brought through the sheeting. Depending on the actuator button provide also the appropriate cut-out in the wall sheeting (see also installation instruction for the buttons).
- For in-ceiling installation make provisions for a ceiling access panel (see fig.1) to be able to service the flush valve.

Fit out

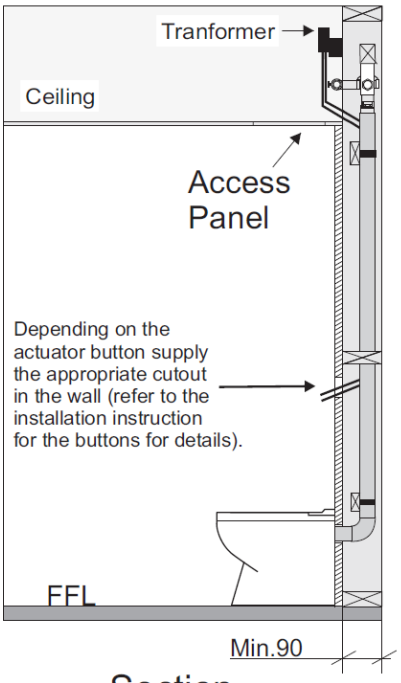
- Connect the activator buttons to the extension cable that had been previously installed.
- Connect the extension cables from the buttons and the solenoid valve to the DFM-01 module (see also fig.5).
- Plug the transformer lead into the DFM-01 module (see also fig.5).
- Plug the transformer into the power point and switch on the power.
- Adjust the flush time setting on the DFM-01 module to the active the correct flush volume as outlined in the relevant Australian Standard. The module is pre-set to approximately 5 seconds.
    - Temporarily connect a measuring bucket to the end of the flush pipe.
    - Open the flush valve stopcock and activate the full flush.
    - Compare the collected water volume with Australian Standard requirements.
    - If too much water is discharged shorten the flush time. With a small screwdriver turn the potentiometer on the controller anti clockwise (see fig.5).
    - If not enough water is discharged extend the flush time. With a small screwdriver turn the potentiometer on the controller clockwise (see fig.5).
    - The half flush sets itself automatically.
- After testing install the buttons into the prepared wall cut-out.
- Install the toilet pan.
- Activate the valve several times. Check on the valve that there is no water spillage on the airbrake. It is possible that the flush valve will squeak for the first few operations. It is caused by trapped air inside the valve. The squeaking should stop after a few flushes. Note: If the flush valve is activated more than 6 times within one minute it will stop flushing for 45 seconds.

In Ceiling Installation



Dimension X by pan supplier

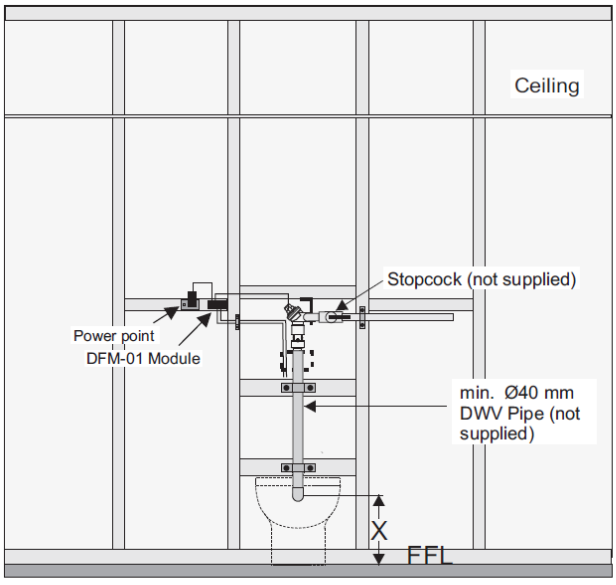
Elevation



Section

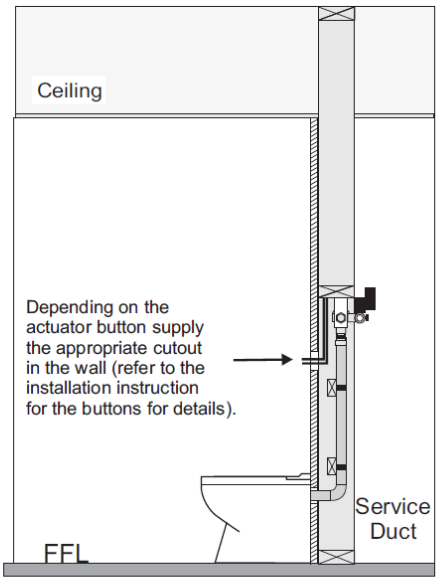
fig.1

In Duct Installation



Dimension X by pan supplier

In duct elevation



Section

fig.2

Valve Head Assembly

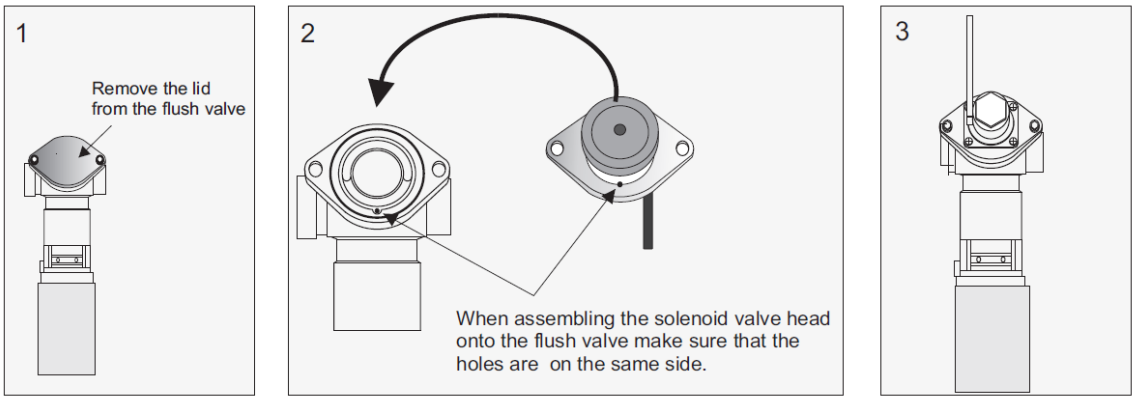


fig.3

Trouble Shooting

Unit will not flush when pressing full or half flush button.

- Check that the power is switched on, all cable connectors are plugged in and the water is turned on.
- Check that the solenoid valve head has been assembled the correct way (see fig.3).
- If the above is correct and unit will not work, unplug the transformer from the power point for a few seconds and than plug it back in.

If above checked out o.k. contact service.

Unit stopped flushing after several activations.

- The controller has a build in function that temporarily (45 sec) suspends further flushing once the unit has been flushed more than 6 times within a minute. Wait for 45 seconds, the unit will reset itself or unplug the transformer and re-connect after a view seconds.

If above checked out ok. Contact service.

Too much flush volume.

- Shorten the flush time.

Not enough flush volume.

- Lengthen the flush time.

Hydraulic conditions required at the flush valve.

- Min. flow pressure 200 kPa.
- Min. flow rate 1.4 l/sec
- Max. flow pressure* 500 kPa
- Min. connecting pipe size* 25 mm copper
- Max. static pressure 800 kPa
- WELS rating 3 STAR

* Refers to the minimum connection pipe size to any valve branched off the ring main pipe providing that the above required technical specifications can be met. Pipe work to the valve fixture must be sized to and installed to water service rules and regulations (AS/NZS 3500.1 and local regulations) and simultaneous demand requirements. To ensure proper sizing of the pipe work for the valve it is recommended to engage a qualified hydraulic designer.

Spare Parts EDFV-01

Article No Description
101.011 Solenoid valve head complete
100.012 Flush valve bracket
100.013 Plastic funnel with seal
100.014 Funnel fastening nut
100.015 Solenoid cable
100.016 Extension cable for push button 3m
100.017 Extension cable for solenoid valve 1m
TR-1 Transformer
DFM-01 Dual flush module
SV-1 Electronic flush valve

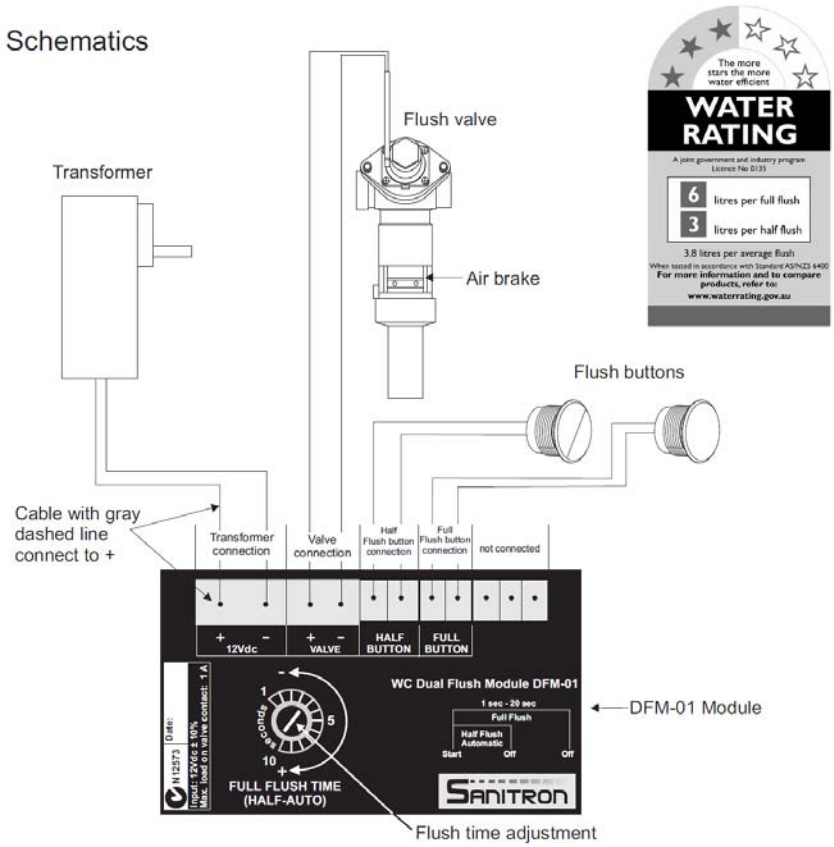


fig.5

Warranty

Upon receiving a Stoddart product, inspect immediately for any visible signs of shipping damage and notify the carrier immediately. When removing the product from its packing, be careful not to dent or scratch outer surface. Any concealed damage should be noted and reported immediately to the freight carrier. A claim should be filed with carrier promptly if appropriate. Stoddart Manufacturing will not accept responsibility for shipping damage.

The Standard Terms and Conditions of Sale clearly details Standard Warranty Policy. Plumbing Products offer additional conditions as follows;

- Warranty on materials and labour is limited to 12 months from date of installation.
- The Warranty does not cover damage caused by abuse, misuse or improper application or improper installation.
- Warranty Claims must be submitted in writing to Stoddart Manufacturing within 14 days of observation of fault.
- Items may be returned to Stoddart's Factory by the Customer for warranty inspection. For valid warranty claims, Stoddart will repair or replacement the item and return it to the Customer promptly.
- For installed products, Photos must accompany the Warranty Claim for effective consideration.
- If a site visit is required to conduct warranty repairs, such work will be carried out during normal business hours e.g. 8am to 5pm. Mon to Fri.

Cleaning Instructions

All surfaces of the product should be cleaned with mild soap and water or a neutral product.
Carefully rinse away all surplus cleaning product.

IMPORTANT: Never use harsh or abrasive cleaners on stainless steel. Do not use chlorinated or bleach water

Customer Complaints

All customer complaints regarding Stoddart Stainless Steel Toilets should be referred to:

Customer Service Department
Stoddart Manufacturing
149 Jackson Road 4109
Sunnybank Brisbane
Ph +61 7 33455011
Fax +61 7 33441000
Email: sunnybank@stoddart.com.au
Web : www.stoddart.com.au