Centrobed

Tasman Handi Turner

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INSTRUCTIONS FOR USE

Equipment

To set up the equipment you will need the following:
Hi/Lo Control Unit, Hose, Bellow & Bellow Cover.
All of these are supplied by Centrobed. The Tasman Handi Turner can be used on most beds.

Fitting

The Tasman Handi Turner will be supplied in one box. Once the box is opened, the Tasman Handi Turner can be lifted out and will look like this;

Firstly, unfold the cotton sheet. When you lay it out flat, it will appear to have an extra section in the middle of it. One side of this extra section will have an opening, this is where you insert the bellow. Lay the sheet over the bed with the opening facing towards the head of the bed. Now insert the bellow into the opening with the outlet pipe also facing towards the head of the bed. Whichever way round you insert the bellow, will determine which way the user will be turned when using the Tasman Handi Turner.

The picture below shows the bellow being inserted into the sheet;

The outlet pipe is facing towards the head of the bed. If you were to use the Tasman Handi Turner this way round, you would be turned to the right. To be turned to the left, you would need to put the bellow in the sheet the other way round (but still with the outlet pipe facing the head of the bed). Now move the sheet with the bellow inside it so that it's approximately two thirds of the way up the bed. Please bear in mind that the turner needs to be just under the lower back area. Then attach the hose to the outlet pipe of the bellow. Once you have attached the hose, make sure that the outlet pipe and hose are right at the edge of the bed, then tuck the excess sheet in each side of the bed. Make sure that the outlet pipe and hose are right at the edge of the bed.

Now plug the other end of the hose into the outlet pipe on the Hi / Lo pump. Then plug the 3 pin mains plug, attached to the lead coming out of the back of the Hi / Lo pump, into a mains socket and switch the socket on. Now switch the Hi / Lo pump on via the mains switch on the front.

NOTE: Please ensure that the user does not sleep on the outlet pipe.

Using your Tasman Handi Turner

The handset is a pneumatic device, which uses air to activate the main switches that are located inside the control unit. No electrical component whatsoever is connected to either the bed or the user. It has two buttons, the green one to raise the Tasman Handi Turner and a white one to lower the Tasman Handi Turner. When the Tasman Handi Turner reaches it's limit, the control unit will operate a safety device stopping it from raising any further. The Tasman Handi Turner can be safely positioned anywhere between its flattest position, up to it's limit, for any period of time.

Application

The Tasman Handi Turner is a fully portable device for people who experience problems turning whilst in bed. Tasman Handi Turner is easily fitted to beds, and can support a patient in variable positions for added comfort.

Variants

The Tasman Handi Turner is not available in any other variants.

Control Units

The Tasman Handi Turner comes with the standard Hi / Lo pump and can be purchased with an Environmental Control option for connection to Possum or Fox environmental control systems (ECS).

Repairs

Note: If this equipment was supplied by Centrobed, you may contact us on the details given towards the back of this manual. If the equipment was supplied to you by another company, please contact this supplying company with regards to repairs.

This unit is mains powered. Ensure it is disconnected from the mains before opening the case. This unit is intended to be serviced by qualified personnel only.

Parts available form Centrobed

100/S Case	100/F Front Panel
106 Air Switch	106/B Safety Air Switch
107 Twin Tubing per meter	107/A Single Tubing per meter
108S Fan Motor unit	109 Solenoid
110 Mains Switch	111 Fuse Holder and Fuse
112 Wiring Loom	119A Outlet Pipe
140 Rod End Cap	146 ½" BSP Plug
152 Mains Lead	160 Brass Screw M3 x 12mm
160A Brass nut M3	183 Front Panel Overlay
902 Cable Tie Small White	903 Cable Tie Black
910 M3 Ring Terminals	913 Terminal 0.25 Blue
915 Terminal 0.187 Bare	925 Sealant
929 Screw No.8 x 19mm	942 Terminal 0.187 Red
943 Terminal 0.25 Red	969 Screw M3 x 16mm
CBL Caspian Bellows	H Hose
HB Button Handset	HE Hose Extended
LHB Lever Style Handset	134 Fuse 5Amp 250V 20mm

Control unit flow repair chart explanations

A. Does the green switch in the Control unit light up when it is switched on?

B. Is the Control unit plugged in and switched on?

C. Ensure that the Control unit is plugged in to a wall socket and that the socket is switched on. Also, check the main switch on the front panel is switched on, i.e. pressed in at the top.

D. Is the fuse in the plug OK?

E. The fuse in the plug is intended to blow if the Mains Lead is damaged. If this fuse has blown, check the mains lead for damage before replacing the fuse. If there is any damage to the mains lead, it should be replaced. To replace the Mains lead it will be necessary to remove the lid of the machine, this is done by removing the six screws in the upper case. Remove the mains lead connections from the fuse holder and mains switch. Undo the two screws holding the mains lead at the back panel, cut the terminals from the end of the mains lead and pull the mains lead from the unit. Refitting is the reverse of removal ensuring the new terminals are fitted after the lead is pushed through the hole, and the blue wire is fitted to the switch and the brown to the fuse holder.

F Is the fuse in the Control unit OK?

G. The fuse in the unit is intended to blow if there is an electrical fault inside the unit. If this fuse has blown, check for any faults before replacing the fuse. Ensure all wires are in place and not damaged. Look for signs of heat damage to the solenoid, pump casing and air switches. If there is any signs of damage to the parts or wiring the parts or wiring must be replaced. As an additional check, a normal solenoid has 0.9 to 1K resistance across its terminals and the motor has about 10 to 30 Ohm resistance. The air switches are detailed on their sides for their switching pattern, this can be checked with a multimeter. The fuse should only be replaced by one of the same type. The fuse fitted to this unit is a 5 Amp, 250 V, ceramic antisurge (T) type.

H. If the Unit is switched on and the light in the switch does not come on the fuses should be checked first. Then the Mains Lead should be tested with a continuity meter, (including the brown wire from the fuse holder to the mains switch), if a fault is found it should be replaced as above (2). If no fault is found the mains switch should be replaced. This is done by squeezing the switch top and bottom inside the unit, then pushing it out of the control unit. Ensure the wires are replaced in the same places they are removed.

I. With the control unit switched off, press each button on the handset and listen for the quiet click produced inside the control unit by the handset.

J. Check which type of handset you have first, there are 3 types. 1) Green and white push buttons with integral twin tubing, 2) Yellow or grey large circular buttons without integral twin tubing, 3) Blue or Yellow topped lever style without integral twin tubing. Type 1 handsets disconnect from the control unit at the front panel and replacements are supplied with twin tubing. Type 2 & 3 handsets disconnect at the handset end and replacements are not supplied with twin tubing. The different types of handset are fully interchangeable. To change a type 1 handset, carefully pull the tubes from the barbs in the front panel, and reconnect the new handset. To change a type 2 or 3 handset, pull the tubing from the handset and reconnect the new handset. Both types of handset will require testing to check that the connections are the correct way round.

K. If the Control unit does not work after the handset has been changed, replace the air switch.

L. To change an Air Switch it is necessary to remove the lid of the equipment. CAUTION this equipment is mains powered and should be isolated from the mains before it is opened. To remove the lid undo the 6 (six) screws in the upper case, (2 in each side and back), squeeze the sides of the lid inward to release the lid from the handle moulding. The air switches are mounted on the inside of the front panel. The "up" air switch has only 2 (two) wires while the down air switch has 3 (three) wires. Pull each wire from the switch to be changed and attach it to the new switch in the corresponding position, then unscrew the old switch from the front panel and attach the new one. Refit the lid before testing the unit.

M. Test the unit operates correctly now the new switch has been fitted. If it does not the wiring should be checked.

N. To check that the wiring is in place it will be necessary to remove the lid of the equipment. CAUTION this equipment is mains powered and should be isolated from the mains before it is opened. To remove the lid undo the 6 (six) screws in the upper case, (2 in each side and back), squeeze the sides of the lid inward to release the lid from the handle moulding. The wiring is based around the two air switches mounted on the front panel, but also included are the mains switch, solenoid valve and fan-motor. The blue wire from the top of the mains switch goes to the fan motor housing, and then continues to the solenoid valve. The brown wire goes from the top of the mains switch to the middle terminal on both of the air switches. The white wire goes from the terminal closest to the front panel (lower terminal) on the down air switch to the fan motor housing. The red wire goes from both air switches (top terminals) to the solenoid valve. If all of these wires are in place it is possible to check those from the fan motor to it's housing. See section R. to remove and reassemble the housing. Refit the lid before testing the unit.

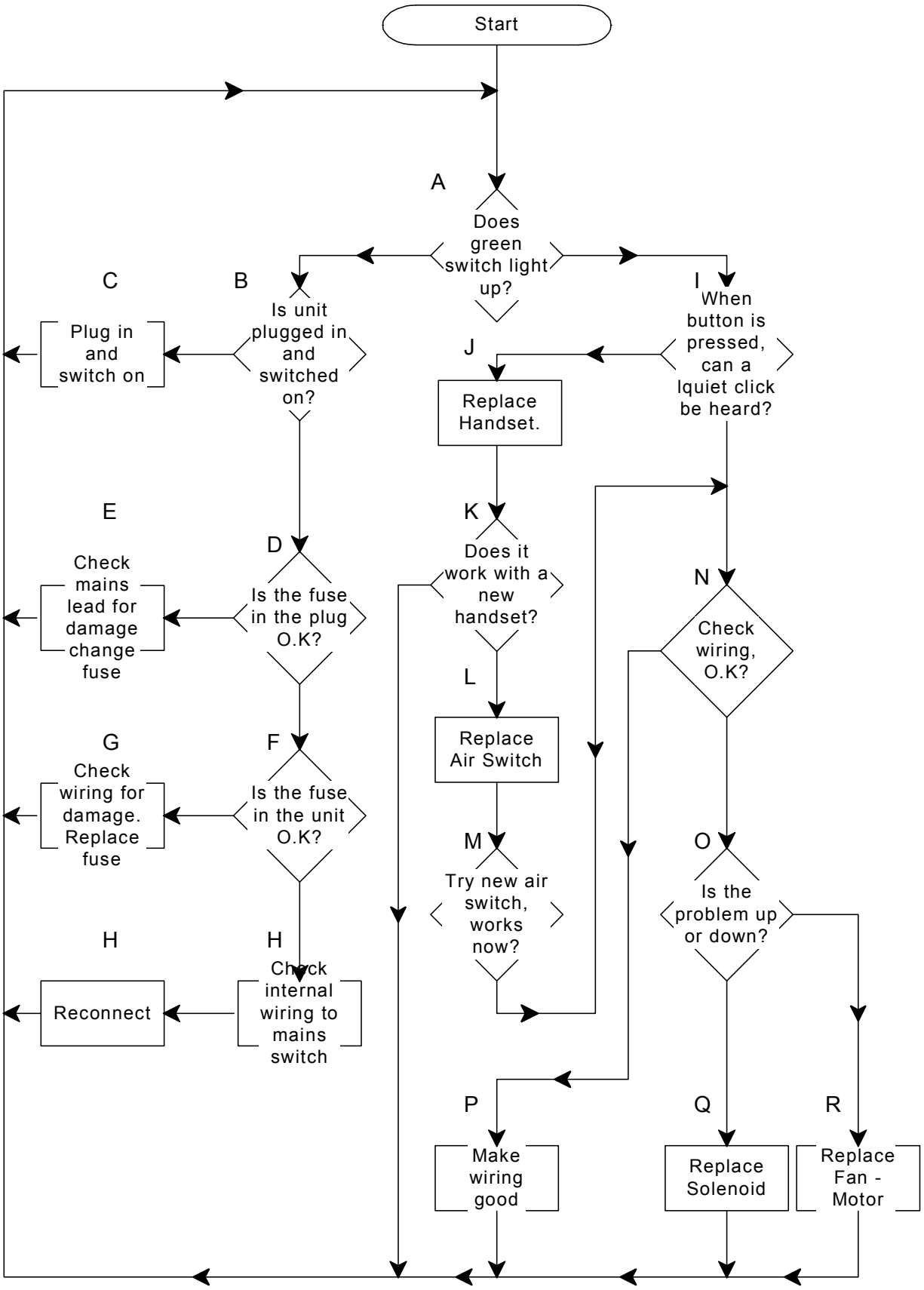
O. If everything checked so far is OK the problem must be with the solenoid or the fan motor. With the unit plugged in and switched on, press the up button. If the unit only gives a loud click, replace the fan motor as described in section R. If the unit only gives a whining noise but blows out no air, replace the solenoid valve as described in section Q.

P. If there is a fault with the wiring it should be repaired to IEC60601-1 if you are unsure of the correct way to do this return the unit to Centrobed for repair. Refer to section N for description of wiring circuit.

Q. See section R. and remove the fan motor. With the fan motor removed it will be possible to access the internal fitting holding the solenoid valve to the lower fan motor housing. Remove this fitting and the fitting holding the solenoid valve to the front panel. Disconnect the wires from the solenoid valve and remove it from the control unit noting the position of any rubber seals. Refit the new valve with the seals. Refit the lid before testing the unit.

R. To replace the fan motor it will be necessary to remove the lid of the equipment. CAUTION this equipment is mains powered and should be isolated from the mains before it is opened. To remove the lid undo the 6 (six) screws in the upper case, (2 in each side and back), squeeze the sides of the lid inward to release the lid from the handle moulding. Remove the 10 (ten) screws from the fan motor housing and prise apart. Noting the orientation of the fan motor, pull it from the lower housing and disconnect the wires from the fan motor. All of the sealant should be removed from the housing so the new fan motor can be fitted. Reconnect the wires to the fan motor (it is unimportant as to the way round) and fit the fan motor to the lower housing. Sealant should be used between the upper and lower housings. The upper housing screwed back into position ensuring that the wires are not trapped between the housing flanges. Leave the sealant to dry for at least 1 hour. Refit the lid before testing the unit.

Control unit flow repair chart



Technical information

Specifications

Country of Origin	England
Name of Equipment	Tasmin HandiTasman
Description of Equipment	Bed Raising Aid
Voltage	230 V ~ (A.C.)
Power Supply Frequency	50 Hz
Power Consumption	2.9 A Peak
Power Consumption Stand-By	1mA
Fuse in Control Unit	T5A 250V
Fuse In Plug	5A Mains Fuse
Class	II
Type	BF
Electrical Safety Standard	BS EN 60601-1
EMC Standard	BS EN 60601-1-2
Duty Cycle	100%
Weight Limit Low Setting	15 Stone (95.3 Kilos)
Weight Limit Hi Setting	20 Stone (127 Kilos)

Other important information

Class II means this equipment is double insulated. Type BF is the level of patient protection this equipment gives. This is ordinary equipment intended for indoor use only. Do not use this equipment near explosive gases, anaesthetics etc. Clean this frame with warm soapy water and allow it to dry before use. Clean the actuator with a slightly damp cloth.

Interference

Interference should not occur between this and other equipment, such as televisions, radios and other electronic equipment. If you have any interference involving your Tasman Handi Turner, try relocating the Tasman Handi Turner and / or the other equipment, also try to connect them on different mains circuits.

Recycling

There are no toxic components inside your Tasman Handi Turner, so it can be disposed of quite safely in the normal manner. Alternatively it can be returned to Centromed for recycling. The life expectancy of this equipment is about five years.

Contact information

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