

# SCOPETECH REPAIR GUIDE





Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

01952 223130

support@serchem.co.uk



### TABLE OF CONTENTS

ScopeTech Overview	3
Connectors / Tubing	4
Detergent Dosing Issues	5
Endoscope Flushing Issues	7
Leak Test Issues	9
Power Issues	10
Keypad Issues	11
Temperature Issues	14
General Maintenance	17



Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

 $\mathbf{x}$ 



### SCOPETECH OVERVIEW





### **CONNECTORS / TUBING**





Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

01952 223130

support@serchem.co.uk



### **DETERGENT DOSING ISSUES**



### **REPLACING DETERGENT TUBING**

1.	Switch of the ScopeTech and remove the power supply.
2.	Remove the 2 screws (2 x <b>RED</b> Circles) from the cover plate and remove.

3. Unclip hose connections (2 x GREEN Circles) and remove black peristaltic tubing



 Measure the new piece of tubing against the old piece and cut to same length.
 Insert the new piece of tubing, ensuring there are no twists and it sits between the rollers and pump wall. Replace the hose connectors (Step 3) replace cover and secure the screws (Step 2)



Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

support@serchem.co.uk









### **ENDOSCOPE FLUSHING ISSUES**

Error Displayed on Screen	Solutions <ol> <li>Check Flush In filter is below the water line</li> <li>Check flush tubing is not kinked</li> <li>Clean filter on Flush In Tubing</li> <li>Check O-rings and connections</li> <li>Recalibrate detergent pump (Recalibrate as below)</li> </ol>
REC 1. Press and HOLD 'Ente	CALIBRATING FLUSH PUMP or on the ScopeTech the screen will look like below PRESS START FOR DECONTAMINATION CYCLE
2. Press 'Enter' screen will c clear and steady flow of w	display as below. Press 'Up' to start the pump, once a vater is pumping through press 'Up' to stop the pump PRESS UP TO START OR STOP FLUSH PRIMING FLOWMETER 005
3. Press 'Enter' the ScopeTe ui	ech will show a different screen, keep pressing 'Enter' ntil the screen below displays. PRESS SCROLL TO ENTER PASS CODE 0000
4. Pres	PRESS UP TO START FLUSH PUMP CALIBIBRATION VOLUME = 100ml





# 5. Making sure you have a 100ml marked container with 1ml increments ready at the Flush Out and Auxiliary Out tubing. Press 'Up', once the pump has finished the ScopeTech will display (Fig 1)

Press 'Scroll' to highlight the first number and using the 'Up' and 'Down' arrows enter the volume captured, pressing 'Scroll' to move to the next number. Once finished press 'Enter' the unit will then display (Fig 2)



6. Once completed press and **hold** 'Enter' the ScopeTech will then return to the normal processing screen.

### **ISSUES CONTINUING?**

REVERT BACK TO MANUAL SYRINGING OF THE ENDOSCOPES AS PER MANUFACTURER GUIDANCE.

CONTACT YOUR SERCHEM REPRESENTATIVE FOR FURTHER INFORMATION.

![](_page_7_Picture_9.jpeg)

Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

![](_page_8_Picture_0.jpeg)

# **LEAK TEST / INFLATION ISSUES**

Error Displayed on Screen

CANNOT INFLATE! TRY AGAIN OR CONTINUE CLEANING PRESS ENTER TO DEFLATE OR SCROLL TO KEEP INFLATED

#### Solutions

- 1. Check leak test connecter is correctly attached
- Check leak test tubing is not kinked
   Check O-rings (Lubricate)
- 4. Check leak test pump is running (Press the pin inside the connector listen for air)

### OIL O-RINGS

Using silicone oil (same as the oil used for Endoscope buttons), oil the O-Ring's on Leak Tester and CPC Fitting

![](_page_8_Picture_11.jpeg)

![](_page_8_Picture_12.jpeg)

### **ISSUES CONTINUING?**

REVERT BACK TO MANUAL LEAK TESTING OF THE ENDOSCOPES AS PER MANUFACTURER GUIDANCE.

CONTACT YOUR SERCHEM REPRESENTATIVE FOR FURTHER INFORMATION.

![](_page_8_Picture_16.jpeg)

Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

![](_page_9_Picture_0.jpeg)

### **POWER ISSUES**

![](_page_9_Figure_3.jpeg)

#### **ISSUES CONTINUING?**

REVERT BACK TO MANUAL LEAK TESTING, DOSING AND FLUSHING OF THE ENDOSCOPES AS PER MANUFACTURER GUIDANCE.

CONTACT YOUR SERCHEM REPRESENTATIVE FOR FURTHER INFORMATION.

![](_page_9_Picture_7.jpeg)

Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

![](_page_10_Picture_0.jpeg)

# **KEYPAD ISSUES**

![](_page_10_Picture_3.jpeg)

### REPLACING KEYPAD MEMBRANE

- 1. Switch of the ScopeTech and remove the power supply and all tubing.
- 2. Turn the ScopeTech around and Remove the 2 screws from the top of the unit.

![](_page_10_Figure_7.jpeg)

![](_page_10_Picture_8.jpeg)

Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

![](_page_11_Picture_0.jpeg)

3. Remove the lid of the ScopeTech by lifting from the back (GREEN arrow) and pulling forward (RED arrow).

![](_page_11_Picture_3.jpeg)

- 4. Remove ribbon cable from the circuit board (on lid), remove earth cable from the ScopeTech main body.
- 5. Remove USB connection (PURPLE circle), Remove the 4 screws from the circuit board (RED circles).

![](_page_11_Picture_6.jpeg)

#### \*CAUTION\*

Be careful when removing the board, the membrane is attached via a short ribbon cable.

6. Check the connection of the membrane to the circuit board, check the general condition of the ribbon cable (there should be no marks or tears)

![](_page_11_Picture_10.jpeg)

![](_page_11_Picture_11.jpeg)

If ribbon cable looks in good condition, follow step X otherwise move to next step.

- 7. Pull the USB port through (**from the front**) then pull off membrane from the Scopetech lid.
- 8. Make sure the Scopetech lid is clean with no loose debris.
- 9. Feed the ribbon cable through then attach the new Scopetech keypad membrane ensuring the hole for the USB port and screen is lined up.
- 10. Before attaching the ribbon cable to the circuit board ensure the cable goes up, then back on itself and twists (check the old cable).

![](_page_11_Picture_17.jpeg)

![](_page_11_Picture_18.jpeg)

Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

![](_page_12_Picture_0.jpeg)

- 11. Connect the membrane to the circuit board (making sure the side of the connector that you can see silver connections is against the board)
- 12. Reattach the circuit board to the lid and tighten the 4 screws (RED circles FINGER TIGHT), insert the USB port and reattached the cable (PURPLE circle – NO TWISTS).

![](_page_12_Picture_4.jpeg)

- Reattach ribbon cable from main body to circuit board, reattach earth cable to Scopetech main body.
- 14. Align lid with the holes at the front of the case and pull backwards (GREEN arrow) then push down (RED arrow).

![](_page_12_Picture_7.jpeg)

![](_page_12_Figure_8.jpeg)

Replace the 2 screws at the rear of the Scopetech unit.

### **ISSUES CONTINUING?**

REVERT BACK TO MANUAL LEAK TESTING, DOSING AND FLUSHING OF THE ENDOSCOPES AS PER MANUFACTURER GUIDANCE.

CONTACT YOUR SERCHEM REPRESENTATIVE FOR FURTHER INFORMATION.

![](_page_12_Picture_13.jpeg)

![](_page_13_Picture_0.jpeg)

### **TEMPERATURE ISSUES**

![](_page_13_Figure_3.jpeg)

### **REPLACING TEMPERATURE PROBE**

- 1. Switch of the ScopeTech and remove the power supply and all tubing.
- 2. Turn the ScopeTech around and Remove the 2 screws from the top of the unit.

![](_page_13_Figure_7.jpeg)

![](_page_13_Picture_8.jpeg)

Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

![](_page_14_Picture_0.jpeg)

3. Remove the lid of the ScopeTech by lifting from the back (GREEN arrow) and pulling forward (RED arrow).

![](_page_14_Picture_3.jpeg)

- 4. Remove ribbon cable from the circuit board (on lid), remove earth cable from the ScopeTech main body.
- 5. Locate the connection on main circuit board for the temperature probe (2 wires) disconnect and unscrew the broken temperature probe.
- 6. Remove broken temperature probe completely from the unit, insert the new probe through the gland (**left hand side of ScopeTech**) attach the wire to the connector and replace.
- Reattach ribbon cable from main body to circuit board, reattach earth cable to Scopetech main body.
- 8. Align lid with the holes at the front of the case and pull backwards (GREEN arrow) then push down (RED arrow).

![](_page_14_Picture_9.jpeg)

- 9.Replace the 2 screws at the rear of the Scopetech unit.10.ScopeTech Temperature Probe Recalibration
- Insert temperature probe into a jug of water with a calibrated thermometer
   Press and HOLD 'Enter' on the ScopeTech the screen will look like below

PRESS START FOR DECONTAMINATION CYCLE

![](_page_14_Picture_13.jpeg)

![](_page_15_Picture_0.jpeg)

![](_page_15_Figure_2.jpeg)

### **ISSUES CONTINUING?**

#### SCOPETECH CAN STILL BE USED TO ITS FULL CAPACITY, USE AN EXTERNAL THERMOMETER. CONTACT YOUR SERCHEM REPRESENTATIVE FOR FURTHER INFORMATION.

![](_page_15_Picture_5.jpeg)

Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

![](_page_16_Picture_0.jpeg)

### **GENERAL MAINTENANCE**

Component	Frequency
Decontamination:	Daily
Program and Surface Wiping	
Leak Test Connector:	Weekly
Inspection	
O-Rings:	Weekly
Check condition and oil	
Scope Connections:	Weekly
Check condition	
Tubing Replacement:	Yearly
Part of Serchem Validation and	
warranty package	
Validation and Calibration:	Yearly
Part of Serchem Validation and	
warranty package	

![](_page_16_Picture_4.jpeg)

Director: A.J. Arnold | VAT Reg No. 351714862 | Company Registration No. 1554016

 $\mathbf{x}$