RPI PART #SCP050 PUMP KIT (INVENSYS)
with Autoclave Software R603 and older.

RPI PART #SCP051 PUMP KIT (ULKA)
with Autoclave Software R604 and above.
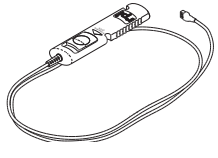
INSTALLATION INSTRUCTIONS

CAUTION: Pumps must be replaced with like pump. Do not use different style pump. Pump must be primed before use (see Step #10).

SERVICE TIP

When replacing the pump in the SciCan STAT*IM*® cassette autoclave, we recommend that you use RPI's Field Service Smart Kit® (RPI Part #SCK028). The Kit includes "one-of-a-kind" tools like a 25" long Extension Test Cable, Start Switch, and Pump Tester Bottle with an extended swivel elbow for easy positioning. Plus, this Kit includes RPI's *A Guide to Maintaining the SciCan STATIM® Cassette Autoclave*, an essential booklet offering troubleshooting and service tips, error code descriptions, detailed exploded views and more! This booklet can also be downloaded from www.rpiparts.com

**Start Switch
(RPI Part #SCS021)**

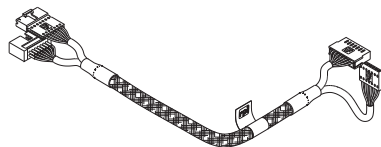*The safe and easy way to "jump start" the pump during testing!*

**Pump Tester Bottle Kit
(RPI Part #SCK024)**

Extended swivel elbow fitting for easy positioning!

**Extension Test Cable
(RPI Part #SCT026)**

Cable allows cover to lie horizontal on the work space for easier reading of PCB display!
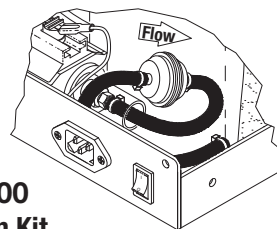
INSTRUCTIONS

1. Disconnect the power to the autoclave. Remove the cover. Disconnect the (2) ribbon cables from the display PC board and keypad.

2. Completely drain the reservoir.

3. Remove cable ties securing pump wires and disconnect wires from main PC board.

4. Remove the metering tube connection from steam generator/boiler and disconnect the silicone tubing at the drain kit barbed tee or reservoir, leaving the water filter (in-line) attached to the pump.

5. Remove the (4) mounting screws from rubber mounting brackets on existing pump and remove pump from chassis.

6. Assemble the silicone tubings (supplied in this kit) to Water Filter (In-Line) (RPI Part #SCF034) as shown in **Figure 2 (STATIM 2000)** or **Figure 3 (STATIM 5000).** Note direction of the flow arrow (if present) on Water Filter (In-Line). Secure barbed connections to filter with cable ties supplied.

7. Insert the spring clip (supplied in this kit) behind rubber mounting bracket on input side of pump **(see Figure 4)** and mount new pump to chassis using (4) shoulder screws (supplied in this kit). Tighten shoulder screws until they bottom out.

8. Re-route wires and reconnect to main PC board **(see Figure 4)**. Secure wires using cable ties.

9. Reconnect the Metering Tube (RPI Part #SCT053) (attached to new pump) to the steam generator/boiler *(DO NOT over-tighten)*.

10. Prime the pump by using a syringe to squirt approximately 1 oz. of distilled water into the input side of the pump (barb side of the pump).
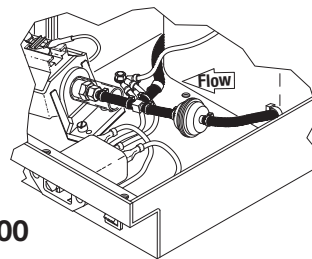
11. Attach the silicone tubing from the water filter (in-line) to the drain kit barbed tee or reservoir. Note flow arrow direction and tubing length configuration **(see Figure 2 or 3)**. Pass silicone tubing from other end of water filter through the clear protective tube and install onto the input port barb of the new pump **(see Figure 4)**. Install clear protective tube over fitting and secure connections with cable ties. *CAUTION: ensure the routing of tubing is located in an optimal location, and that there is no KINKING of tubing!*

12. Fill the reservoir with distilled water only.

13. Installation is now complete.

14. Reconnect the (2) ribbon cables from the display PC board and keypad. For ease of testing, use our Extension Test Cable (RPI Part #SCT026).

15. Restore power and prime pump. Activate the pump to purge trapped air from the tubing (until water passes through the pump) by using our Start Switch (RPI Part #SCS021) or by jumpering Pins 16 and 18 on the "20 pin connector" (P1) located on the main PC board. Run test cycles and check for leaks.

16. Re-install the cover. Sterilizer is now ready to return to service.

FIGURE 1

SERVICE TIP
The OEM now recommends the use of the Reservoir Cap & Filter (RPI Part #SCK059) along with the In-Line Water Filter on all units.

Start Switch Connection

**STATIM 2000
Without Drain Kit**

Flow

**STATIM 2000
With Drain Kit**

**Cord Clip
(RPI Part #ADC058)**
Locate on approx. center of Reservoir

Flow

**Extension Test Cable
(RPI Part #SCT026)**
Cable allows cover to lie horizontal on the work space for easier reading of PCB display!

STATIM 5000

**Water Filter (RPI Part #SCF034)
Included in Drain Kit (RPI Part #SCK037)**

**Pump Tester Bottle Kit
RPI Part #SCK024**
Extended swivel elbow fitting for easy positioning!

**Start Switch
RPI Part #SCS021**
The safe and easy way to "jump start" the pump during testing!

FIGURE 2 (STATIM 2000)

To Drain Kit Barbed Tee -or- Reservoir

Flow

9.00"

2.50"

PUMP

FIGURE 3 (STATIM 5000)

PUMP

1.50"

Existing Barbed Tee

Flow

1.50"

RESERVOIR

2.50"

RESIZE TUBING AS SHOWN

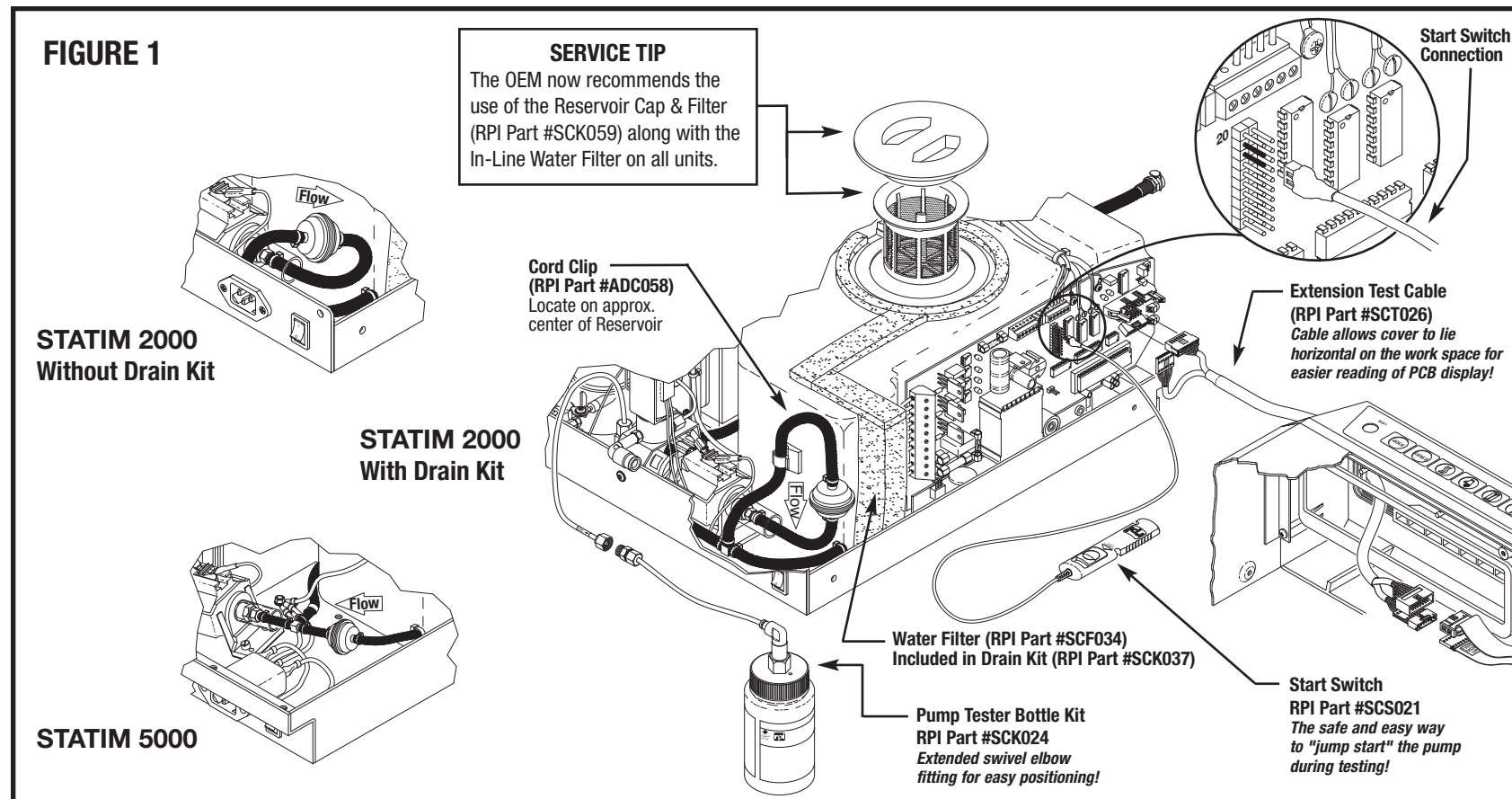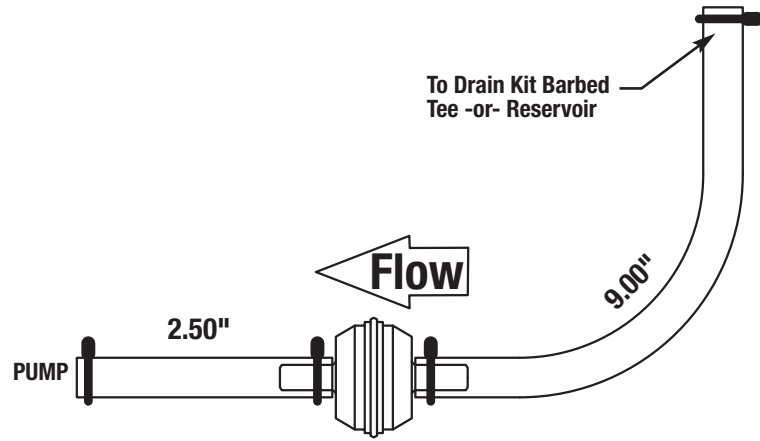## FIGURE 4

INVENSYS VERSION PUMP
with Autoclave Software R603 and older.

- Effective March 2006, all pumps were supplied with the spring clip (grounding) to improve water conductivity circuitry.
- In early 2006, the OEM introduced the Reservoir Cap & Filter (RPI Part #SCK059).
- Effective June 2007, the OEM stopped using the mesh filter (installed in the inlet and outlet fittings) and offered the In-Line Water Filter (RPI Part #SCF034) to be installed between the reservoir and pump.
- The OEM now recommends the use of the Reservoir Cap & Filter (RPI Part #SCK059) along with the In-Line Water Filter on all units. The mesh filters should be removed and the autoclave should be upgraded to the In-Line Water Filter (Drain Kit with Pump Filter RPI Part #SCK037).
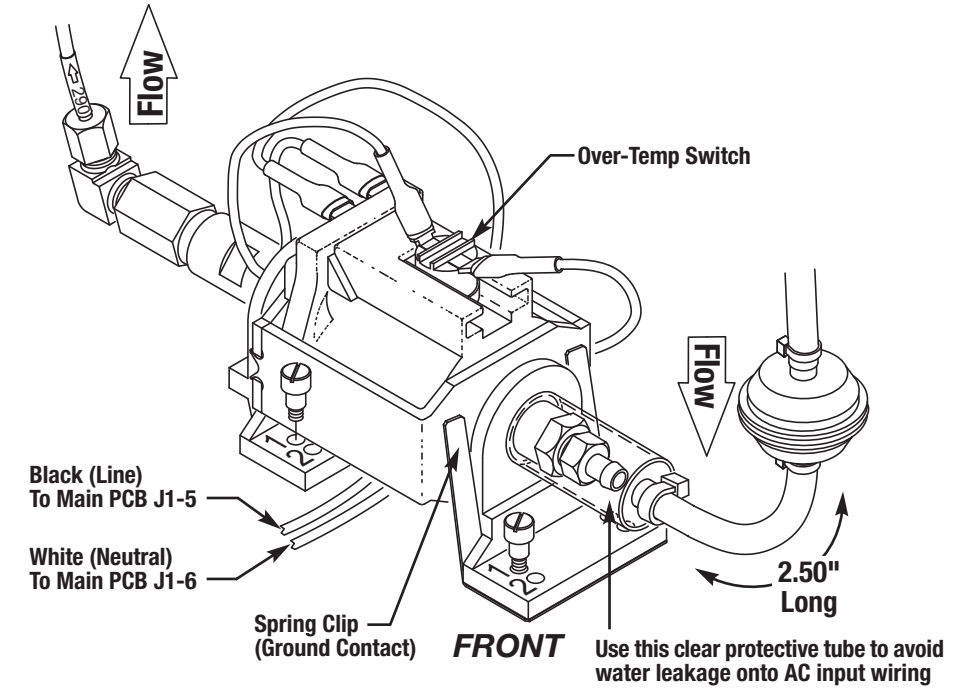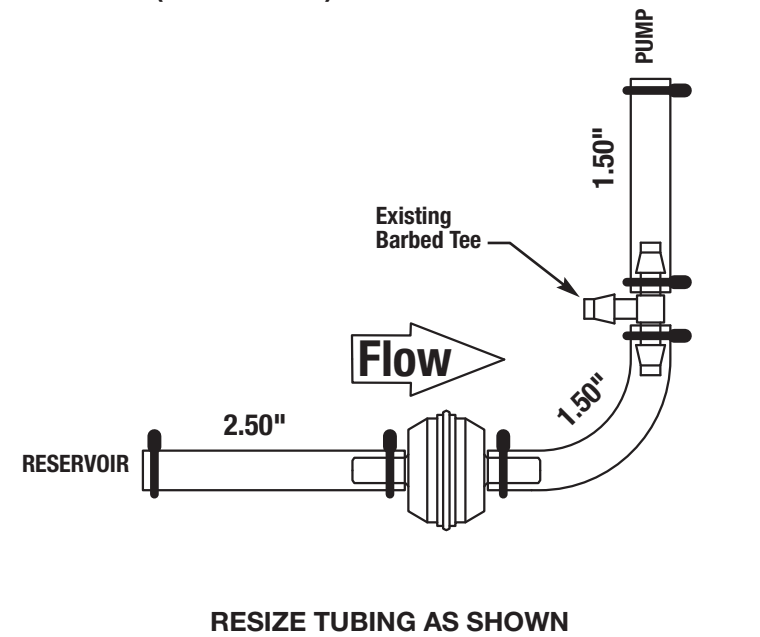

Flow

Over-Temp Switch

Flow

Black (Line) To Main PCB J1-5

White (Neutral) To Main PCB J1-6

Spring Clip (Ground Contact)

FRONT

2.50" Long

Use this clear protective tube to avoid water leakage onto AC input wiring

ULKA VERSION PUMP
with Autoclave Software R604 and above.

ULKA Pump was introduced in conjunction with Main PC Board Rev. 7 (Software version R604) and was never supplied with mesh filter installed into inlet and outlet fittings. NOTE: Ulka Pump can be used on Main PCB Rev. 6.4 with upgraded software to Rev. R604 and above.

Flow

Use this clear protective tube to avoid water leakage onto AC input wiring

Flow

Black (Line) To Main PCB J1-5

White (Neutral) To Main PCB J1-6

Spring Clip (Ground Contact)

FRONT

2.50" Long