

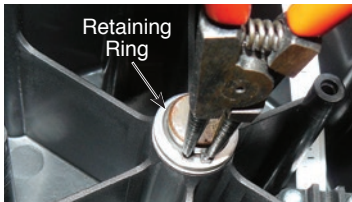
### Tools and Materials Needed

1. Required Replacement Part
  - Frame Assembly (#103562, #105292, or #105293)  
(comes with Brake Assembly installed)
  - Brake Assembly (#103564)
  - Probe Holder Assembly (#110384)
2. Phillips Screwdriver
3. Retaining Ring Pliers
4. 1/4" (6.4 mm) Wrench or Pliers

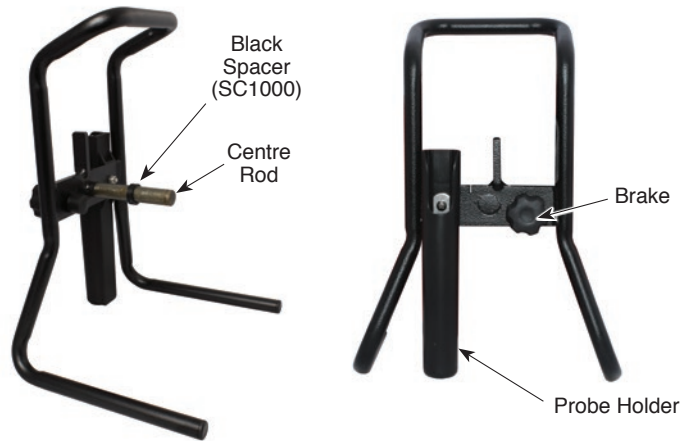
### Replacing the Frame

1. Use the Phillips or Robertson screwdriver to undo the three screws holding the faceplate to the hub. Remove the faceplate
2. For Meters with a Molex connection, disconnect the connector that attaches the faceplate electronics to the tape. For Meters with tape leads connected to the circuit board, press down on the push-release fittings on the circuit board to remove the tape leads. **Remember which lead is removed from each terminal – this is important when reconnecting.**
3. Secure the tape to the hub so it does not uncoil when you are removing the hub.
4. Use the retaining ring pliers to remove the retaining ring holding the hub to the centre rod of the frame. Remove the three washers.

**Note:** Model 122 Interface Meters will have an additional washer over the centre rod that is connected to the ground cable. Remove this washer as well.



5. Pull the hub and backplate from the frame.
6. Attach the probe holder to the frame. (See "Replacing Probe Holder" at right.)
7. Ensure the black delrin spacer is installed on the centre rod of the new frame and the brake is tightened so the pad is flush with the back of the frame. Slide the hub and backplate back onto the new frame.
8. Install the three washers over the centre rod (nylon washer between the two stainless steel washers) and reinstall the retaining ring on the centre rod.
9. For Meters with a Molex connection, connect the connector from the faceplate to the tape. For Meters with tape leads that connect to the circuit board, push down on the white terminals on the circuit board, insert the leads, then release the terminals. Ensure the Meter is operating correctly (see instructions if required).
10. Replace the faceplate on the hub and re-secure the three screws.



Frame Assembly

### Replacing the Brake

1. Following steps 1–5 at left remove and disconnect the faceplate from the hub, and remove the hub and backplate from the frame.
2. Hold the brake pad and unscrew the knob from the pad. Remove the brake from the frame.
3. Insert the new brake knob through the opening in the frame.
4. Stabilize the new brake pad, and screw the knob into the pad (use Blue Loctite® on the brake knob threading).
5. Following steps 7-10 at left replace the backplate and hub back onto the frame and the faceplate back onto the hub.



### Replacing the Probe Holder

1. Following steps 1 – 5 at left (see "Replacing the Frame"), remove and disconnect the faceplate from the hub, and remove the hub and backplate from the frame.
2. Align the hole in the probe holder, with the hole in the back of the frame. Align the washer in the probe holder and insert the screw through the hole in the probe holder and the back of the frame.
3. To secure the probe holder to the frame, use the screwdriver to stabilize the screw, while from the front of the frame, use the wrench or pliers to tighten the nut onto the screw.
4. Following steps 7-10 at left (see "Replacing the Frame"), replace the backplate and hub back onto the frame and the faceplate back onto the hub.

