

### Tools and Materials Needed

1. Required Replacement Part
  - Frame Assembly (#103562, #105292, or #105293)
    - Frame with Caps (#102160, #103337, or #103338 with #102161)
    - Black Delrin Spacer (#102163)
  - Brake Assembly (#103564)
    - Brake Knob (#102158)
    - Brake Pad (#103273)
  - Probe Holder Assembly (#102978)
    - Probe Holder (#104957)
    - #10-32 x 5/8" Allen Screw (#100052)
    - #10-32 Nylock Nut (#100053)
2. Phillips Screwdriver
3. Retaining Ring Pliers
4. 1/4" (6.4 mm) Wrench or Pliers
5. 1/4" (6.4 mm) Allen Key



101 Frame Assembly

### Replacing the Frame

1. Use the Phillips or Robertson screwdriver to undo the three screws holding the faceplate to the hub.
2. Remove the faceplate and disconnect the Molex connector that attaches the faceplate electronics to the tape. Secure the tape to the hub so it does not uncoil when you are removing the hub.
3. Use the retaining ring pliers to remove the retaining ring holding the hub to the centre rod of the frame. Remove the three washers.



4. Pull the hub and backplate from the frame.
5. Insert the brake knob through the opening provided in the back of the new frame. Stabilize the brake knob, and screw the pad onto the knob.
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. Replace 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. Connect the Molex connector from the faceplate to the tape.
10. Replace the faceplate on the hub and re-secure the three screws.

### Replacing the Brake

1. Following steps 1-4 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.
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 - 4 at left (see "Replacing the Frame"), remove and disconnect the faceplate from the hub, and remove the hub and backplate from the frame.
2. Insert an Allen key through the hole in the back of the probe holder to stabilize the screw. Use the wrench to remove the nut. Remove the old probe holder.
3. Align the hole in the new probe holder with the opening in the frame. Insert the screw through the hole in the probe holder and the frame.
4. Insert the Allen key through the hole in the probe holder to stabilize the screw.
5. Use the wrench to tighten the knob and secure the new probe holder to the frame.
6. 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.



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