

# MCX

## Replacing the Thermocouple (Kit #28180S)

To replace the thermocouple on the MCX instrument:

1. Turn off water to the MCX instrument.
2. Unplug the connector containing the thermocouple wires (red & yellow) that go to the optical board. Take note of the proper orientation/placement of this connector.



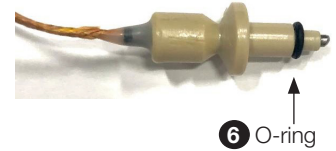
**2&3** Remove plug from optical board then remove red and yellow wires from plug.

3. Remove the red & yellow wires from connector. Take note of the proper orientation/placement of these wires.

4. Using a screwdriver, loosen the screw holding the retainer on the optical assembly that holds the thermocouple in place, rotate the retainer 90°.



**4** Loosen screw holding retainer and rotate 90° to remove thermocouple



**6** O-ring

5. Remove thermocouple from optical block, making sure that the o-ring is attached. If not, remove o-ring from the optical block.
6. Place new thermocouple into the optical block making sure that the o-ring is installed onto the end of it.
7. Rotate the retainer 90° and tighten screw to lock thermocouple into place.
8. Reconnect the red & yellow thermocouple wires to the connector, then plug back into the optical board, making sure of proper orientation/placement of the connector and wires.
9. Turn water supply to the MCX instrument back on.
10. Turn MCX instrument on and check for leaks.