

# Telescope Service

## **LX200 Main Board Mounting**

### Mounting the LX200 Main board

1. Examine the reverse side of the main printed circuit board (PCB) to ensure the 4 Nylon insulating washers and the 2 Nylon stand offs are firmly in place as shown in Fig 3.
2. If mounting the Aluminum Heat Sink to the motor driver chips U17 and U18 on the main board spread a thin film of Thermal Joint Compound on the surface which contacts the chip tabs. Be sure to use screws (4-40 x 3/16") that do not protrude through the heat sink and contact the wires or electronic components underneath.
3. Set the PCB in place and install the 4 Allen head mounting screws. (Fig1 1,2,3,4)
4. Spread thermal joint compound (Thermal Grease) on the bottom of the two 8.2 Ohm 10Watt Motor Resistors. Mount the Resistors by attaching the clip against the side of the base using double sided sticky tape and RTV adhesive (Silicone also works well).
5. Plug the RA Motor connector onto the PCB 7 pin jack J2.
6. Plug the 34 Conductor Ribbon cable connector onto the double row header J1. Be very careful the cable aligns with the header as any misconnection will harm the electronics when powered up. **DOUBLE CHECK THIS CONNECTION.**
7. Spread a thin film of thermal joint compound (Thermal Grease) on the surface of the Aluminum Heat Sink which attaches to the base plate as shown in Fig 2.
8. Double check all connections and make sure the mounting screws are tight.

**Fig 1**

**Main PCB Mounted in base**

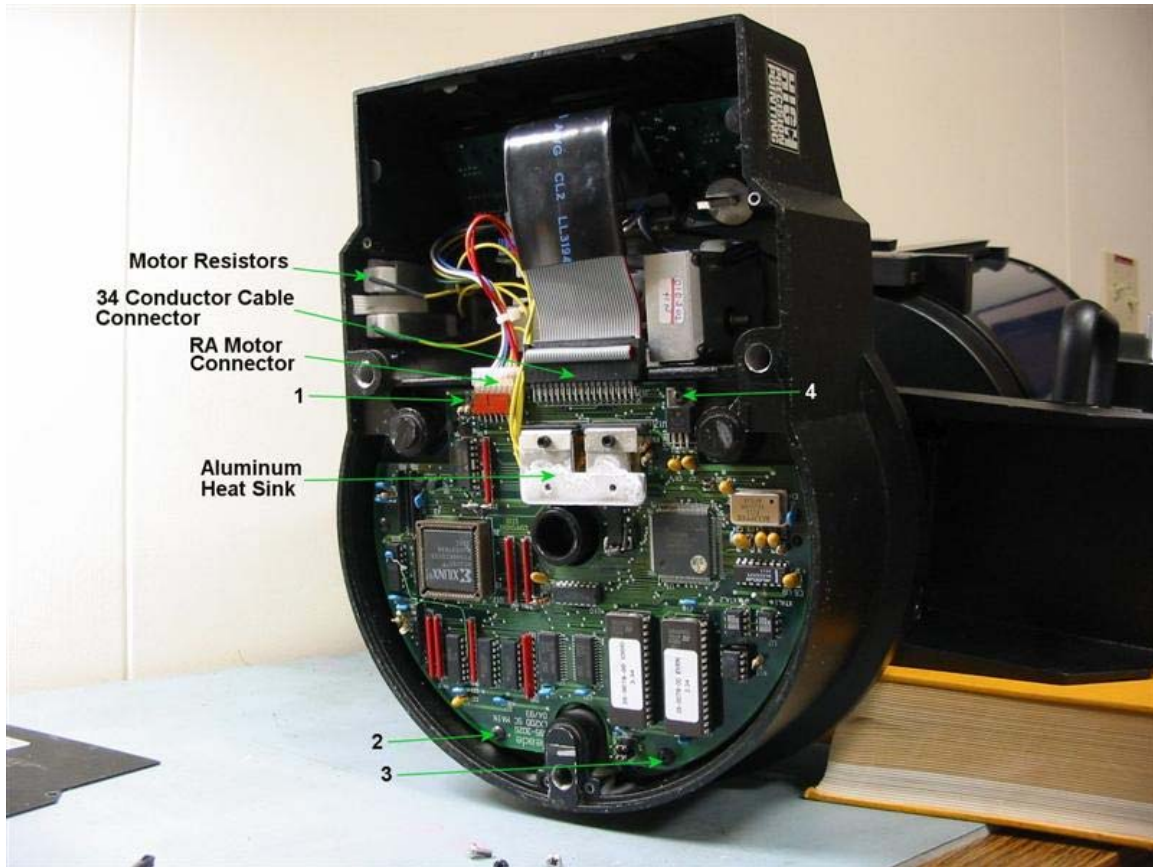
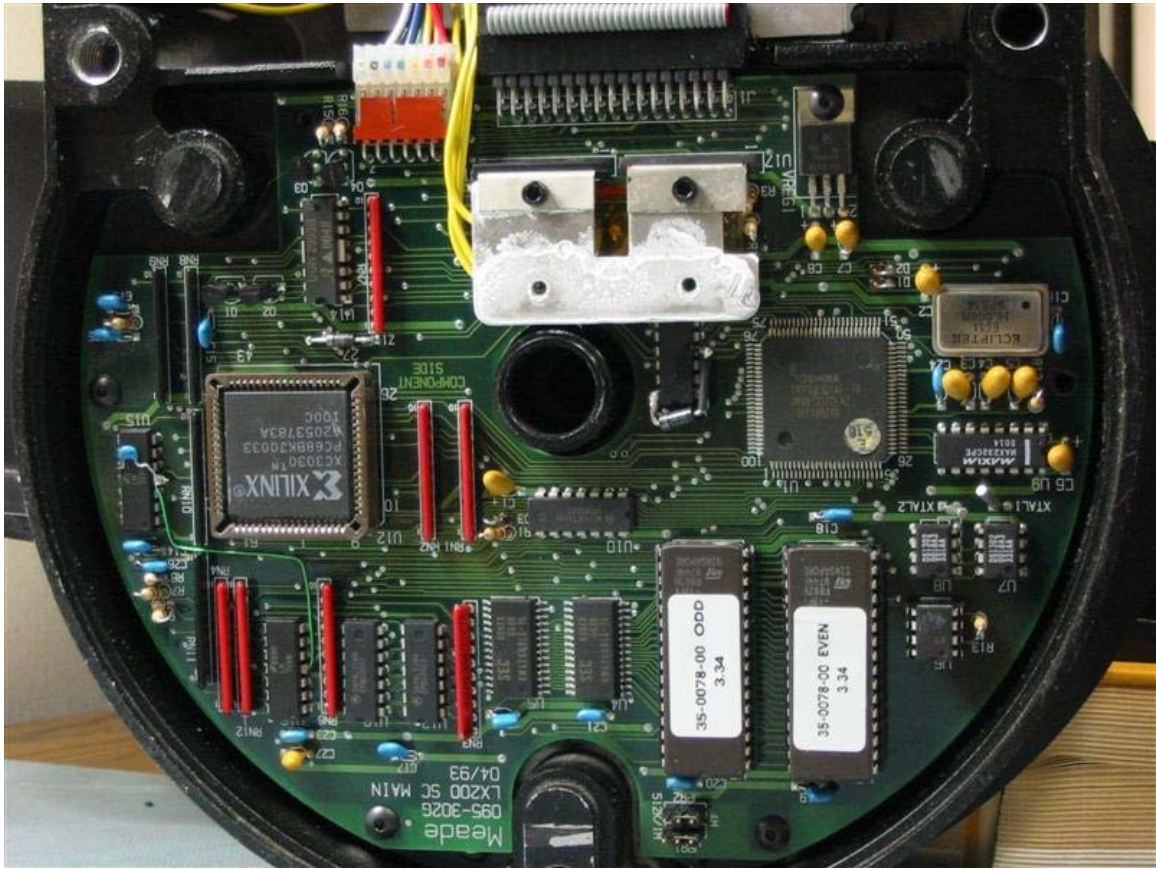
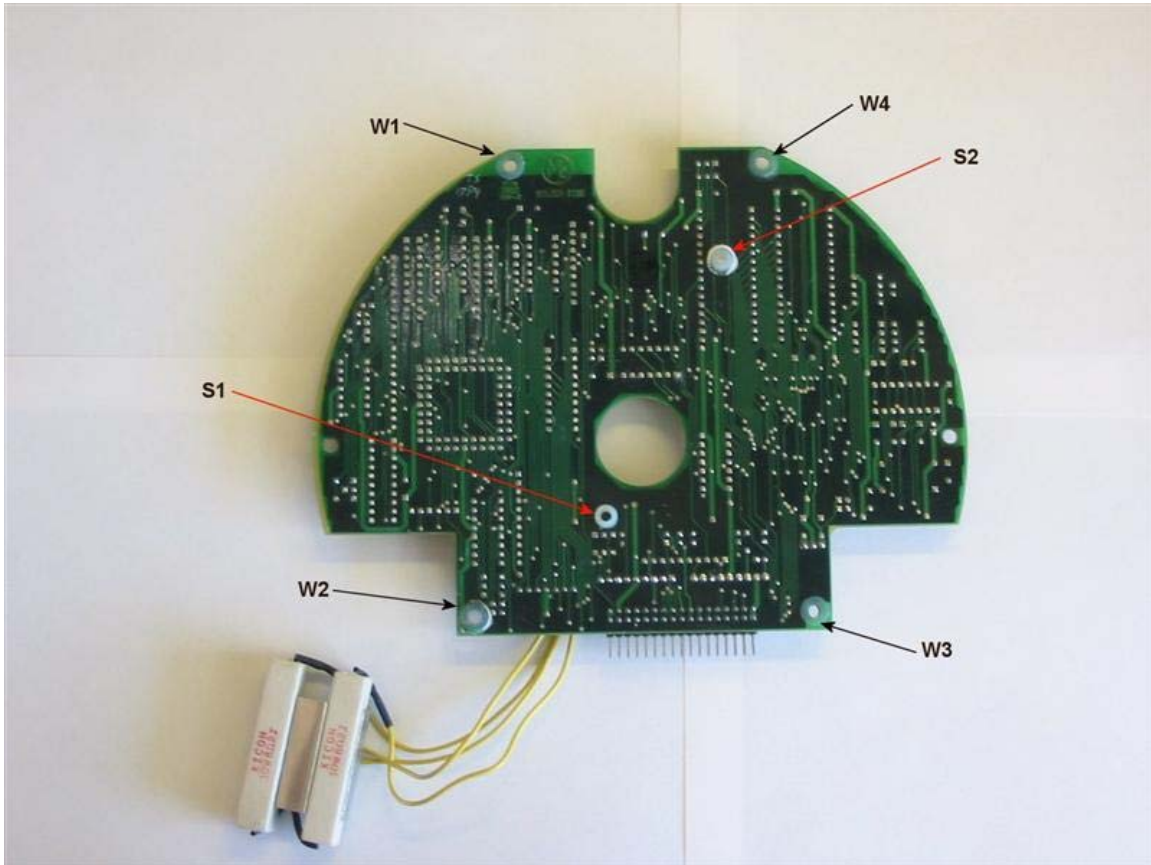


Fig 2



**Fig 3**

**Main PCB Reverse Side**



W1 – W4 Nylon Insulating Washers .312 OD x .140 ID x .032 H

S1 – S2 Nylon Standoff .250 OD x .120 ID x .125 H