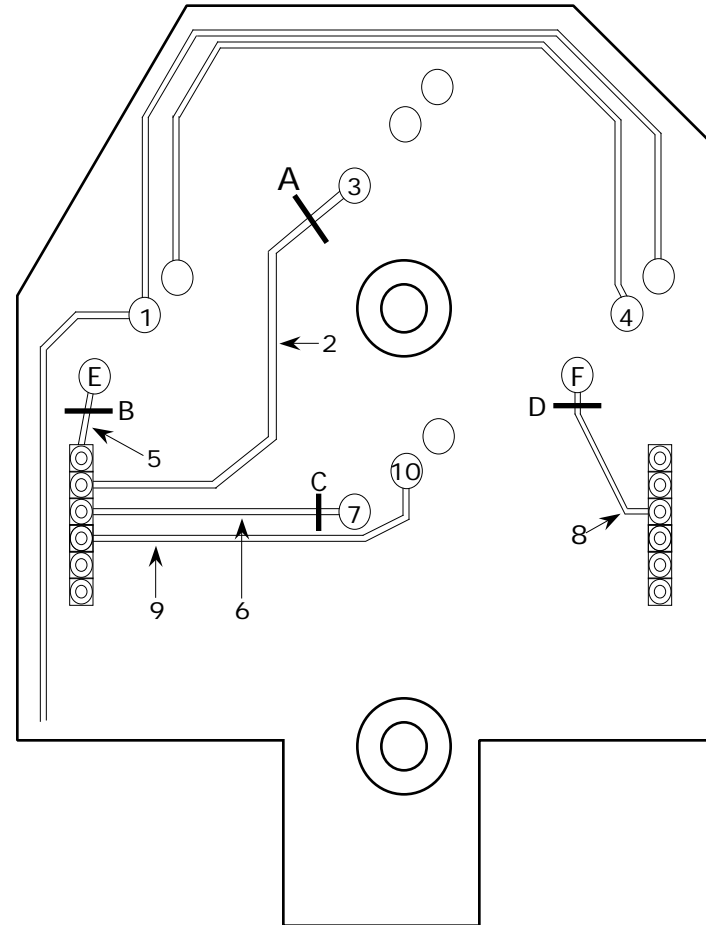


1. Open handbox. Drill a hole next to the existing coil cord large enough for the CCD interface cord to fit through.
2. Cut PCB etch with utility knife so that the trace no longer conducts current through points "A", "B", "C", and "D".
3. Using an "Exacto" type knife, scrape off 1/4" of the green solder mask so that bare copper is exposed at points "2", "5", "6", "8" and "9".
4. Solder a 1/4 watt, 2.2 kilo-ohm resistor between points "E" and "5". Solder another 2.2 kilo-ohm resistor between points "F" and "8".
5. Insert CCD interface cord (wiring end) through the hole drilled in handbox.
6. Solder the colored handbox interface wires from CCD/Guide system to points numbered 1 through 10. Use the chart below to determine the proper wire color. Please note that the yellow and pink wires are not used.

IMPORTANT: READ ALL DIRECTIONS BEFORE STARTING



Handbox Interface Wires	
1 = Violet	7 = Red
2 = Green	8 = Gray
3 = Orange	9 = Blue
4 = Tan	10 = White
5 = Brown	11 = Yellow
6 = Black	12 = Pink

7. Purchase a male DB-15 connector and solder a jumper wire between 6 and 14. Solder another jumper between Pin 8 and 15. This DB-15 connector must be plugged into the handbox CCD interface connector when not using the CCD camera. The handbox will not function properly without it.

Santa Barbara Instrument Group Santa Barbara, California 93108		
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