

VR1 and VR2 are used to adjust the output of the photodetectors. Raw detector output (at J3-1,2) should be set for maximum amplitude swing. As supplied, VR1 and VR2 are single turn trim pots. Changing to 10 or 25 turn trim pots will give finer control over the signal. (Bourns 3696Y-1-203LF)

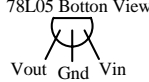
Test Points for the raw signals from the photodetectors.

Vcc will vary from 12vdc - 18vdc depending on model of LX200.

This schematic is based on disassembling the Dec board of a LX200 Classic. Previous documentation indicates this same board is used for RA. Apparently the only difference is the addition of a Hall Effect Sensor to detect a start point on the RA worm gear for PEC.

The Hall Effect Sensor would be attached to J2 pins 3-5. J2-3 would be the output of the sensor. J2-4 would be power to the sensor. J2-5 would be ground to the sensor.

NOTE: The pinout of the 78L05 DOES NOT match the silkscreen on the board. The silkscreen indicates that pin is Vin - which is correct. The silkscreen indicates that Vout is pin 2 - the schematic shows pin 3. The silkscreen has no indication for ground - the schematic shows pin 2.



All resistors 1/8W 5% unless otherwise noted.

Title		
LX200 Classic Declination Encoder Board		
Size	Number	Revision
A	www.dv-fansler.com	1.0
Date:	21-Dec-2007	Sheet 1 of 1
File:	C:\PROTEL\LX200-DV.SCH	Drawn By: David V. Fansler