**ASSEMBLY INSTRUCTIONS**

**CONNECTIONS:**

B# = battery connections ... the circuit is driven by two batteries in series.

+12volts>+-<Common>+-<-12volts

M+/- : DC motors do not have polarity leads... connect leads either way

LEDs : connect the west LED anode / East LED cathode to the top LED connection.

The LEDs are connected in reversed parallel. The two west led anodes are connected to the two east led cathodes and vise versa. If the tracker rotates in the wrong direction simply reverse the LED connections at the PCB or reverse the DC motor connections.

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**Sensor Layout**

East LEDs

West LEDs

-105deg

-45deg

+45deg

+105deg

SUN

Make from 15mm slice of ABS pipe

3/16th drill for LED holes

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**Sensor Wiring**

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**Parts Checklist**

- LM339
- Tip41C
- Tip42C
- 2N3904
- 2N3906
- Potentiometer
- Capacitor 103
- Resistor 1Meg
- Resistor 10K x 3
- Resistor 4.7K
- Resistor 2.7K
- LEDs x 4
- PCB

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**PCB Connections**

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v1 339