

MINIATRONICS

"electronics for the hobbyist"

POINT TO POINT AUTOMATIC REVERSING UNIT

RU1-1

MATERIAL REQUIRED TO INSTALL RU1-1

- A SMALL ROLL OF **STRANDED 22-24 GAUGE WIRE** (SOLID WIRE BREAKS EASILY)
- A **SOLDER IRON AND SOLDER**.
- A **DRILL BIT 1/32 OR-1/16**.

Thank you for purchasing this Miniaturonics' product. We know you will get much enjoyment from the use of the model RU1-1 point to point automatic reversing unit. As always, we have tried to give you a product that requires a minimum of soldering and time to install. We have also included a 12Volt DC transformer (Miniaturonics' #WT512, a \$13.25 value). After you have determined a location to mount the RU1-1 decide the two point to point locations you intend to install 2 light sensing devices. These sensors are the heart of the reversing unit. With the thought of saving the hobbyist time, we have **preadjusted** the sensitivity to conform with the surrounding light in a room in the range of moderate to bright lighting. If after you have followed the hookup instructions and turn on the unit and the sensors do not respond to your particular lighting range, go to the next to last instruction on how to reset the sensitivity. →

INSTRUCTIONS FOR INSTALLING SENSORS

- (A) Line up a sensor between the ties on your track. N scale may require notching out a space between the ties so the sensor will fit easily.
- (B) Using a 1/32 to 1/16 inch bit, drill two holes side by side large enough for the leads of the sensors to fit through (we have included a piece of heat shrink tubing to avoid shorting leads.) Insert through the holes. A drop of silicone glue is recommended to keep sensor in place. Repeat this step with the second sensor.

Follow the balance of easy hookup directions and you can be up and running in 30 minutes.

- (1) After first mounting the RU1-1 measure 2 lengths of wire to go back to the variable voltage on your power pack.
- (2) Measure 2 lengths of wire to go from RU1-1 out to your track.
- (3) Measure 4 lengths of wire to go from RU1-1, two each to a sensor.
- (4) Bring the two conductor wire from the transformer to the RU1-1 (**do not attach!**)

TO COMPLETE HOOKUP

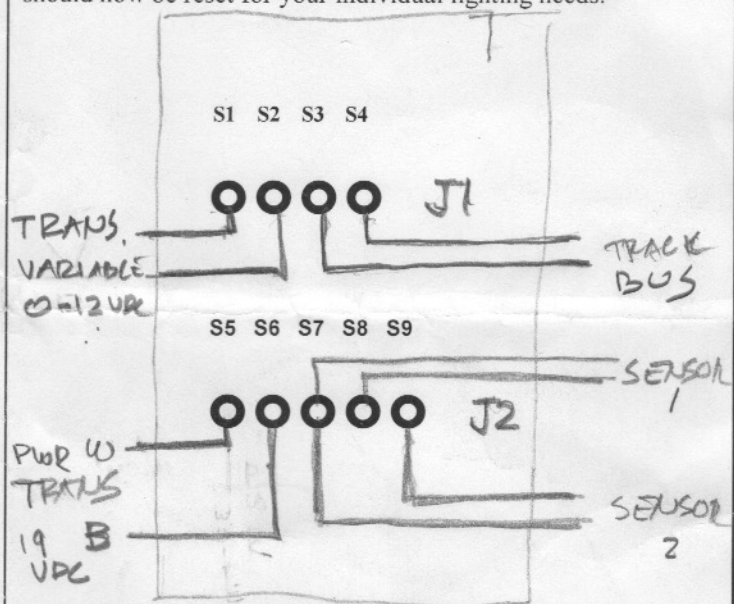
Prior to attaching to RU1-1, strip all wire ends 3/16-1/4 inch long; make a tight twist on all wire ends. Simply insert wire.

- (5) Take the two wires prepared for your variable voltage supply and hook them up to your power pack. Insert the other end of one of the wires into **S1**. Insert the end of the second wire into **S2**.
- (6) Take the two wires prepared to go to your track and attach one each to either side of the rails. Take the other ends and insert one wire into **S3** and the second wire into **S4** and secure connection.
- (7) Insert wires from transformer supplied. Side of wire with broken white stripe insert into **S5**, second wire side into **S6**.
- (8) Solder 2 wires to first sensor and attach one to **S7** and one to **S8**.
- (9) Solder 2 wires to second sensor and attach one to **S7** and one to **S9**. Your hookup is now complete.

Plug in the 12VDC transformer, place an engine on the track, set your power pack to low and ENJOY.

TO CHANGE SENSITIVITY SETTINGS

Adjust knob till LED lights. A small screw driver is required to adjust the knobs. Reverse knob very slowly till light goes out. Repeat this process with second knob and LED. Your RU1-1 should now be reset for your individual lighting needs.



MFG.: IN U.S.A.