TRAFFIC SAFETY CORP.

TS40 PRODUCT ASSEMBLY & SERVICE INFORMATION MANUAL

MODEL:

SERIAL NUMBER(S):

MANUFACTURE DATE:

Please review all the information in this manual before attempting assembly and/or maintenance.

ASSEMBLY FOR:

SOLAR UNITS

Un-pack the sign. Check for damage and report to the shipper immediately. Document any and all damage with photographs and save all of the packing materials.

1. Attach to Round or Square pole (Tuf-Nut security hardware for square pole only - see instructions for Tuf-Nut installation).
2. Insert the solar panel wire into the tubing and thread the tubing into the top of the sign casing. Securely tighten the tubing to the casing.
3. Connect the solar panel wire to wire that is protruding out from the top of the tubing. These wires can only be inserted one way. Push excess wiring into tubing.
4. Attach solar panel to the top of tubing. Securely tighten solar connector to avoid the solar panel from turning in excess wind.
5. Located in the casing between both sign faces is the "On/Off" switch. Insert the key into the switch to activate the sign. The key will remove from the switch in the "On" position. This switch also acts as a reset switch in the event of an electronic component malfunction. Once the unit is powered on, you may now remove the key.

#2-4

#1

Zoomed View of Wire Connection
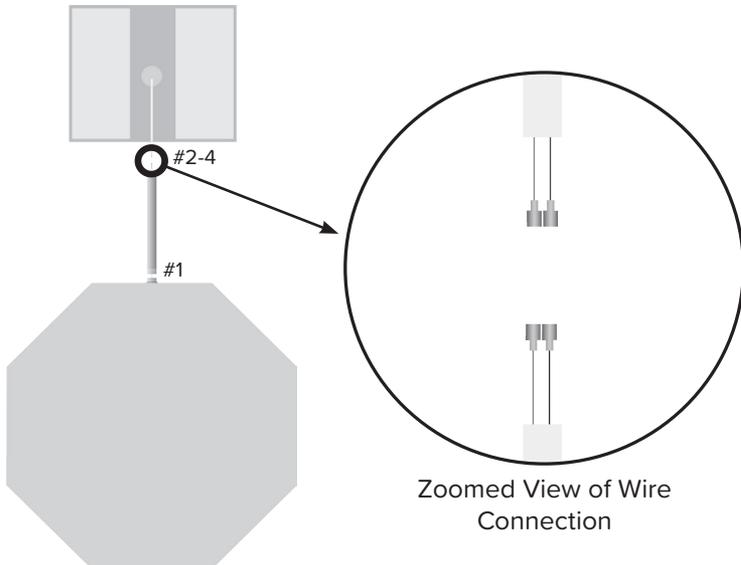
See Diagram 1.1 on Page 6 for Correct LED Sign Placement.

BE SURE THAT THE SOLAR PANEL IS FACING SOUTH
(It is much easier to attach the solar panel when the sign is mounted to the pole)

HERE'S HOW THE TUF-NUT WORKS

A Tuf-Nut is threaded onto a bolt, finger-tight.
A second nut is installed upside-down.
A wrench is inserted between the two nuts to tighten.
Once fastened, the second nut is removed.
Use the same procedure (reversed) to remove nuts for maintenance.

ASSEMBLY FOR:
A/C (120 VOLT) UNITS

1. Un-pack the sign. Check for damage and report to the shipper immediately. Document any and all damage with photographs and save all of the packing materials.
2. Attach the sign to a standard Round or Square sign post.
3. Attach the AC (120 Volt) power to the electrical box located on the rear sign panel or casing.
4. Located in the casing between both sign faces is the "On/Off" switch. Insert the key into the switch to activate the sign. The key will remove from the switch in the "On" position. This switch also acts as a reset switch in the event of an electronic component malfunction. Once the unit is powered on, you may now remove the key.

*See Diagram 1.1 on Page 6 for Correct LED Sign Placement.

QUESTIONS?

Call Service at
(916) 394-9884
www.xwalk.com

RESET PROCEDURE

If a master reset is required, power off the unit. Then power the unit back and the sign will begin flashing again. A possible hard reset may be required; to do this, please contact Service.

MAINTENANCE

Any Maintenance performed requires complete power disconnection at the positive battery terminal.

Access to the battery compartment is gained by removing rivets at the battery compartment if it is a battery powered unit.

Power must be turned off to unit to replace LED lights when needed. By leaving the power "On", you will cause a short circuit and burn the Printed Circuit Board requiring shipment back to our location for repair. A service charge will be involved for this repair.

QUESTIONS?

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BATTERY REPLACEMENT

SIGN MUST BE IN "OFF" POSITION WITH KEY SWITCH TO AVOID DAMAGE

1. Locate the battery compartment between the front and rear sign face.

2. Use a razor knife and cut one slice through each bead of caulk. DO NOT remove caulk.

3. Drill out pop rivet at opposite end of door hinge. Use 3/16" Drill bit.

4. Open battery door and remove battery pack from sign.

5. Unplug battery to PCB leads from top of battery and connect to new battery pack.

Insert battery into battery compartment with attention to wire leads collecting between battery and rear sign face. Close door and insert 3/16" aluminum rivet or sheet metal screw to secure door. Turn power "On" at key switch.

FLASH TIME ADJUSTMENT

Only for wireless communication signs, not 24/7 flashing signs.
Unless noted or requested, all flash times are set to 30 seconds.

1. Locate "Flash Adjustment" access point in casing
2. Remove plug
3. Locate rotary dial inside opening
4. Insert small straight edge screwdriver into rotary slot
5. Turn dial to required flash time (see chart below)
6. After new flash time, set reinstall plug
7. Repeat all steps above on all signs
8. Test and time each sign for proper flash time

DIAL SETTING	FLASH TIME (SECONDS)
"0"	15
"1"	20
"2"	30
"3"	45
"4"	60
"5"	90
"6"	120
"7"	150
"8"	180
"9 - 15"	240

If you have any questions, please call **(916) 394-9884**

TROUBLESHOOTING

ISSUE	CAUSE	RESOLUTION
Only flashes during the day	Battery	Replace battery
Lights are on, but not flashing	Battery	Replace battery
Sign is not working	1. Battery (most likely) 2. Solar Panel 3. Printed Circuit Board	1. Replace battery 2. Check connections 3. Replace circuit board
Single LED Light is not flashing	LED burned out	Replace LED

Tech Support is Available at **(916) 394-9884**

Diagram 1.1

CORRECT LED SIGN PLACEMENT   INCORRECT LED SIGN PLACEMENT

Sign post turned toward roadway; allows LED light cone to broadcast correctly toward oncoming traffic.

Correct degree of offset to be determined at location. Applies to square mounting posts only.

Round pole mounting will still require proper aligning of the sign on the round pole to roadway.
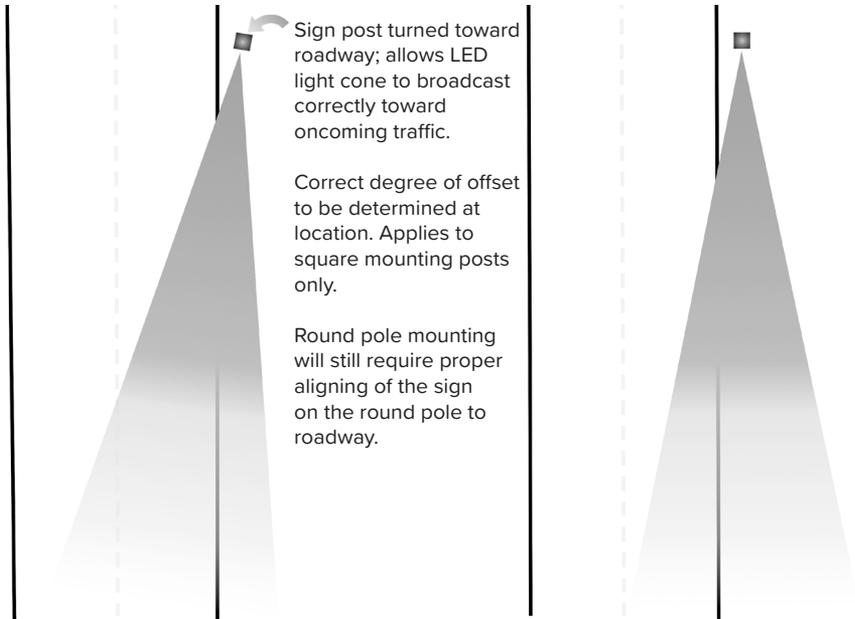
Special attention is required when mounting to existing poles. Inspection of pole placement is required to determine if LED sign will broadcast onto roadway as desired.

DISCLAIMER

*Solar electric power is needed to maintain the battery power levels to optimum charge capacity. If there is a period of no or very little sun to maintain this level, the sign may temporarily shut down until the sufficient power is restored to the battery to begin the flashing sequence. Since this is a very rare occurrence, but can happen, time must be given to allow the battery recharge to working capacity. A reset may be needed with the "On/Off" switch to reset the circuit. This LED sign is only enhancement to original traffic signs. The sign will still act as a standard sign and compliance is required even if the sign is not flashing.

LED illuminated Solar/AC powered signs are developed to promote increased traffic compliance. They still require compliance even if they are not illuminated.

Replacement items are available through our parts department.

The sign's Serial Number is required to obtain the proper parts needed.

If you have questions regarding operation, maintenance or other issues, please contact Service at:

(916) 394-9884
www.xwalk.com

PRODUCTS

Solar LED Traffic Signage
A/C Powered LED Signage
Standard Traffic Signs
Traffic Control Products

We reserve the right to modify and/or change design to continuously improve our products.