

### PARTS LIST

Description	Qty.
Lightbar Assembly, N941 or N941E	1
Connectors, Scotchlok	6

### PREPARATION

1. Make certain the motorcycle is securely positioned for this installation. Cover the front fender with a protective cloth to avoid scratches.
2. Remove the headlight and rim assembly from the headlight shell (Phillips screwdriver).
3. Remove the cover from the front of the turn signal mount (hex key wrench, 3mm). Cover will not be re-used.
4. Remove the nuts holding the headlight bracket to the lower triple-clamp (socket, 12mm). Make sure the headlight shell stays in place.

### INSTALLATION

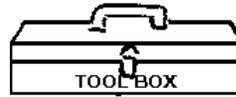
1. Remove the screws holding the headlight bracket to the lower triple-clamp.
2. Slide the Lightbar center bracket between the headlight bracket and the lower triple-clamp. Reinstall the headlight bracket screws to through the headlight bracket, the Lightbar center bracket and the lower triple-clamp. Loosely install the nuts.
3. Adjust the Lightbar position to be symmetrical on the motorcycle and tighten the nuts to 13 ft/lbs (19Nm).
4. Route the wires from the center of the Lightbar up through the Lightbar bracket, around the headlight bracket, then into the headlight shell.
5. Using the Scotchlok Connectors, connect the wires as follows (pliers):

Wire color of N941 light bar	Wire colors of VL800
Red, long (Passing Lamps) to	headlight hi-beam (White)
	Ground is Black/white
	Lo-beam is Yellow.

**NOTE:** Grounding is through the front fork.

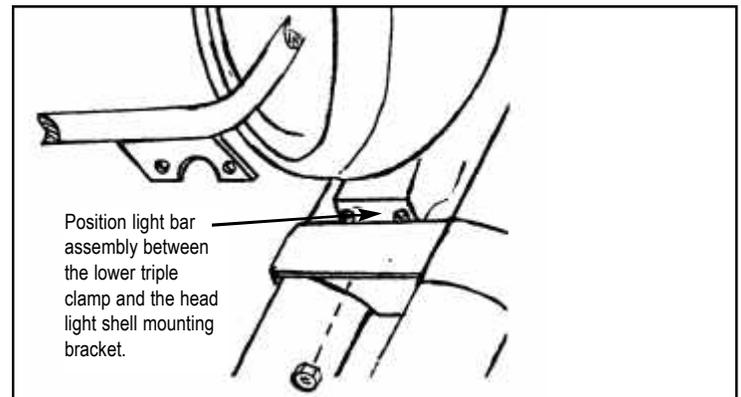
6. Check the operation of the light on the Lightbar, correct the connections as needed.
7. Reinstall the headlight and ring assembly. Check the lights again for proper operation.

**NOTE:** Check local regulations for proper passing lamp operation. Some states require passing lamps be lit only with hi-beam.



Wrench, 12mm  
Socket, 12mm  
Ratchet Wrench  
Short Extension  
#2 Phillips Screwdriver  
Hex Key Wrench, 3mm  
Slip Joint Pliers

**NOTE:** right and left on the motorcycle are determined from the rider's position.

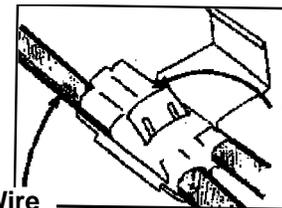


#### Note, Light Bar Wiring Helpful Hints:

The **long RED** wire is the main power wire for the spotlights on the light bar. Connect that to the main power source from the headlight. Either the High Beam wire or the Low Beam wire. The choice is your preference. Turn on bike and Check.

The Light Bar attached to the front fork of the motorcycle serves as the ground in most cases. A precautionary step to insure proper grounding is to take one of the Ground wires from the existing turn signals and ground that between the Light Bar Mount and the Triple Tree Bracket.

Always start by doing one side at a time. Preferably the right side or high side of the bike first.



Through Wire

Wire From Light Bar  
Insert To Stop.

## ⚠ WARNING

After wiring the light bar check for clearance. Make sure the wires can not get pinched when the fork is turned to a full fork lock left and right.

Check all lights for proper operation.

Check the tightness of all fasteners that have been involved in this installation.

## MAINTENANCE

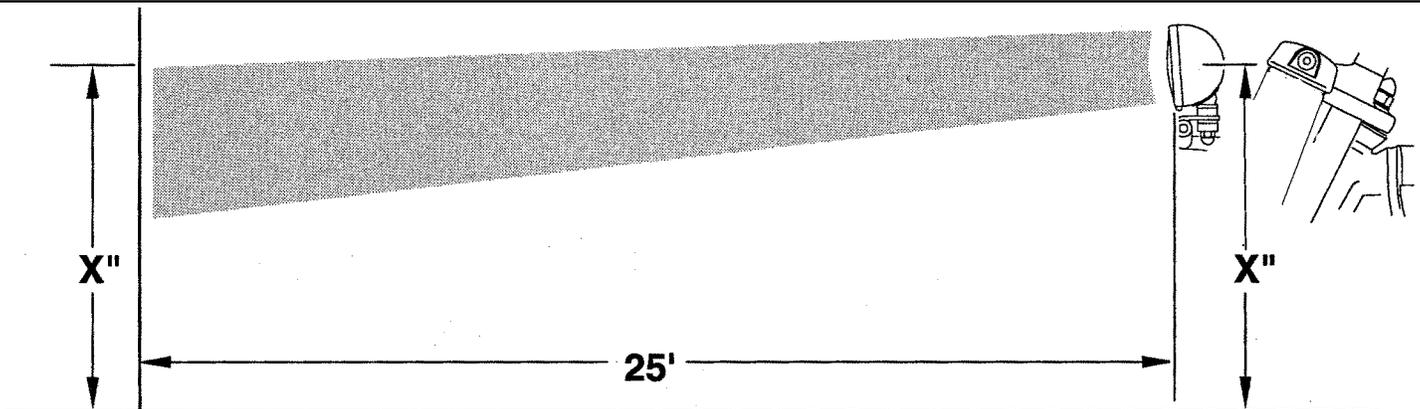
The high quality chrome finish of your National Cycle light bar can be maintained with any quality chrome cleaner and /or polish.

## REPLACEMENT PARTS

Order replacement parts through your local dealer or contact National Cycle.

Description	N941 Part No.	N941E Part No.
Light Head Assembly Right Side	90-910500-000	90-910502-000
Left Side	90-910500-000	90-910502-000
SealedBeam Bulb Only For Above	90-901000-000	
Lamp Assembly E13/DOT Reflector, Lens and Bulb		90-901011-000

## ADJUSTMENT

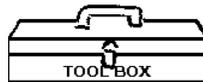


### 1. HORIZONTAL AIM

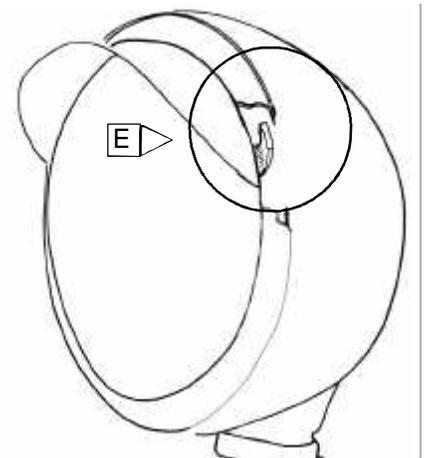
A. To adjust the Spotlights or Turnsignals right or left gently rotate the lamp into the correct position. In the event that the lamps become loose, refer to the procedure for vertical adjustment.

### 2. VERTICAL AIM

- Loosen the nut on the Spotlight stud (Wrench 3/4").
- Now, adjust the Spotlight.
- Firmly retighten the nut on the Spotlight stud.
- Adjust the Spotlights horizontally by rotating into position.



To adjust vertical aim you will need these additional tools:  
Wrench 3/4"



### Installing optional N9005 Light Head Visor.

- Loosen the rim of the light head assembly. (Phillips Screw Driver).
- Slip taps of Visor under rim. Item E.
- Shape Visor / Visor Tabs to conform to contours of light head assembly.
- Retighten rim.