

PARTS LIST

Description	Qty.
Lightbar Assembly, N943	1
Washer, Internal Lock	2
Coupling Nut	2
Cap Screw, M8 x 20	2
Scotchlok Connectors	6

PREPARATION

1. Make sure bike is securely positioned and disconnect battery. Place a soft rag on top of fender to avoid scratches.
2. Remove the two screws holding on the headlight ring assembly. Remove the headlight ring assembly by pulling out the bottom first, then down to release the top. Unplug the headlight connector and set the headlight ring assembly safely aside.
3. Inside the headlight shell, unplug the black (right) and green (left) turn signal connectors.
4. Remove the left turn signal nut and screw (10mm Socket). Bend up the wire retaining clip found on the headlight bracket and free the wires inside. Pull the wires out of the headlight shell from the rear. Remove the turn signal from the bike. Repeat for the right side.

INSTALLATION
1. Mount the Light Bar Assembly

- A. Remove two headlight bracket nuts (12mm socket, 3" extension and ratchet) from bottom side of lower triple tree. These will not be re-used.
- B. Substitute the two nuts (figure 1) with two Lock Washers (on top) and two Hex Coupling Nuts - torque to manufacturer's specifications.
- C. Position the National Cycle Light Bar so center brackets line up with Hex Coupling Nuts.
- D. Install a M8 X 20 Socket Cap Bolt through mounting bracket into one Coupling Nut - do not fully tighten. Figure 2.
- E. Repeat step 4 on other side.
- F. Once aligned correctly, torque the two M8 X 20 Socket Cap Bolts to 15 ft. lbs.

2. Wire the Light Bar assembly

- A. Route the Light Bar wires over the lower triple tree into the rear of the headlight shell. Use the original wire retainer to secure wires to the headlight bracket.
- B. Attach the Light Bar wires per the following list (pliers):

Wire Colors, N943

Blue (Passing Lamps)
Red (Turnsignals)
Black (Running Lamps)

Wire Colors, VN1500P

to headlight hi-beam (Red/Black)
to Green (left) Gray (right)
to Red/blue (left) Red/Blue (right)
Lo-beam is Red/Yellow
Ground is Black/Yellow

8. Check the operation of the light on the Lightbar, correct the connections as needed.

9. 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.



3/8" Ratchet, 3/8" x 3" Extension
10mm Socket, 12mm Socket
Hex Key, 6mm
Wrench 10mm
Wrench, 5/8" or 16mm
Screwdriver, #2 Phillips

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

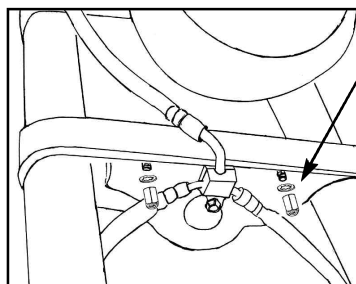


Figure 1.

Remove Headlight Bracket Nuts, install lock washers and Hex Coupling Nuts

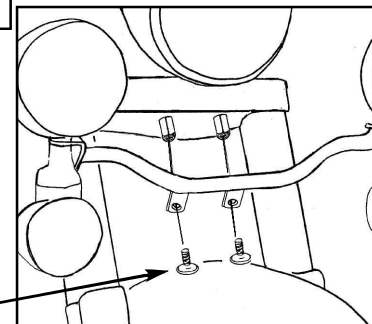


Figure 2.

Install Light Bar to Coupling Nuts with Cap Screws.

Note, Light Bar Wiring Helpful Hints:

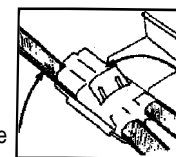
The **long Blue** wire is the main power wire for the spotlights on the light bar. Connect that to the main power source from the headlight. Either the High Beam wire or the Low Beam wire. The choice is your preference. Turn on bike and Check.

The two short **RED** wires are for the turn signals. One **RED** wire for the Left side turn signal and one for the Right side turn signal. Turn on bike and check.

The two short **BLACK** wires are for the running lights. One **BLACK** wire for the Left side running light and one for the Right side running light. 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.



Wire From Light Bar

Through Wire

! 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

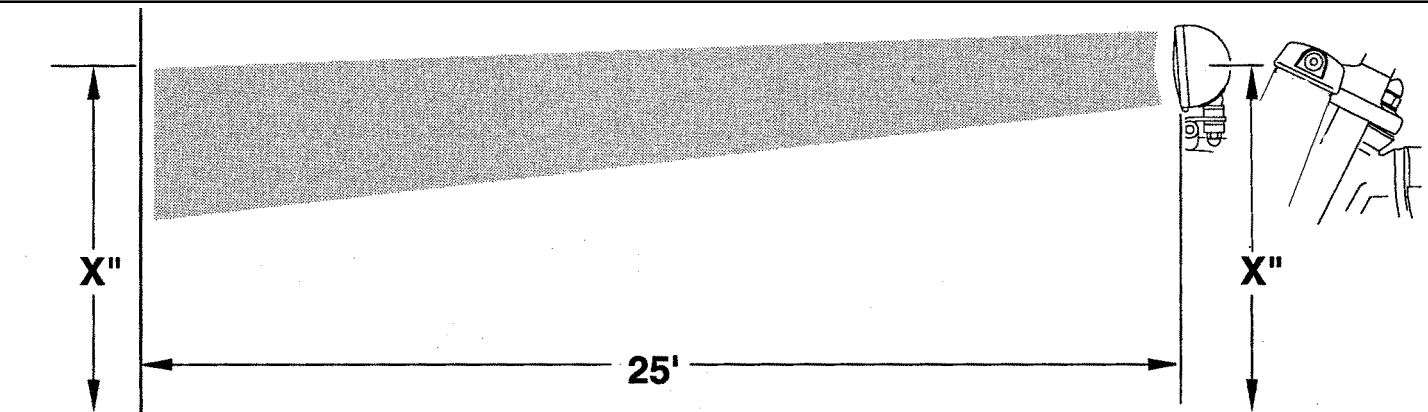
Order replacement parts through your local dealer or contact National Cycle.

Description	Part No.
Light Head Assembly	90-910501-000
Lamp Assembly E13/DOT Reflector, Lens and Bulb	90-901011-000
Turn Signal Assembly	90-930921-000
Turn Signal Lens	90-930213-000
Turn Signal Bulb Only: Bulb 1157 Available at Most Auto Parts Stores.	

Light Bar Accessories

Chrome Visor	N9005
Alternate Thumb Switch	N9001

ADJUSTMENT

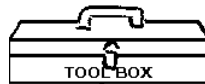


1. HORIZONTAL AIM

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.

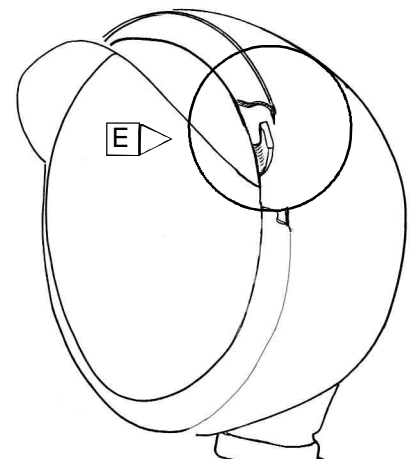
2. VERTICAL AIM

- Disconnect wire connections inside the Headlight Shell.
- Pull the wires out of the Light Bar tube.
- Turn the Turn signal to provide access to the mounting screws.
- Unscrew the Turn signal mounting screws and remove the Turnsignal (Hex Key).
- Push the Spotlight wire up into the Spotlight Shell.
- Loosen the nut on the Spotlight stud (Deep Socket).
- Now, adjust the Spotlight. Reconnect the spotlight wire and illuminate to verify its projection.
- Push wire into the Spotlight Shell.
- Firmly retighten the nut on the Spotlight stud.
- Pull the wire out of the Spotlight Shell.
- Reassemble in reverse order of disassembly.
- Adjust the Spotlights and Turn signals horizontally by rotating into position.
- Verify operation of the lights.



To adjust vertical aim you will need these additional tools:

Hex Key, 5/32" or 4mm
Deep Socket and Socket,
9/16" (14mm) or a 9/16"
Slotted Socket.



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.