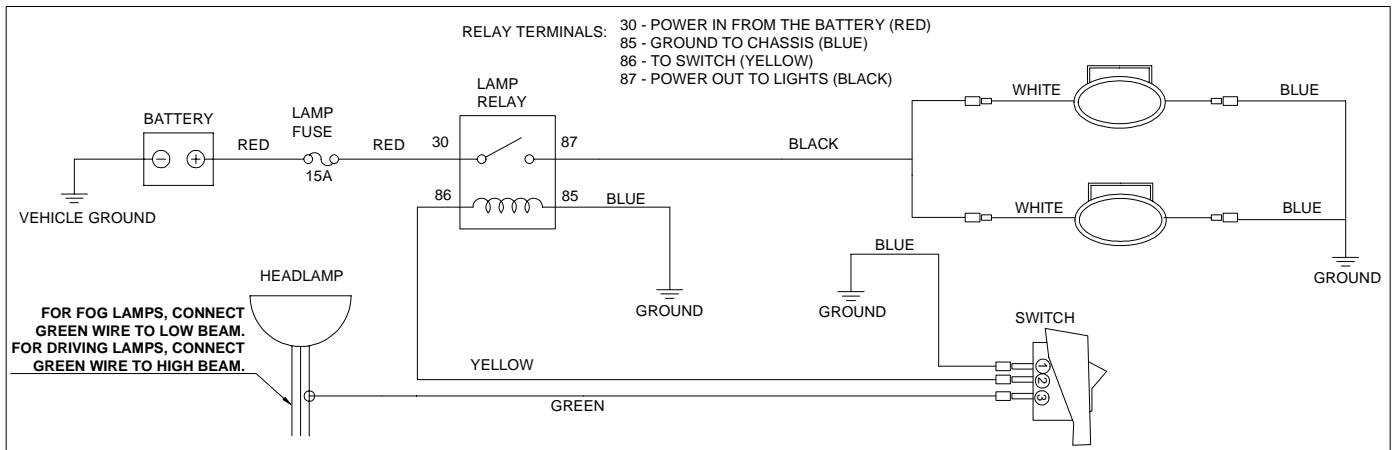


OPTILUX INSTALLATION INSTRUCTIONS

SERIES S



Mounting

1. Consult your local and state regulations regarding minimum and maximum mounting height above the ground, or specific requirements.
2. Mount both of the lamps at the same height. Position the lamps at an equal distance from the center of the vehicle and as far apart as possible.
CAUTION: Make sure the auxiliary lamps do not restrict airflow to the radiator or obstruct the headlamps, turn signals, or marker lamps.
3. Mark the mounting points on the bumper and drill 5/32" diameter holes for pendant or upright mounting.
4. Attach lamp base to the bumper. Do not tighten completely until lamp is properly aimed.

Wiring Installation (refer to the above diagram)

CAUTION: Route wires away from moving parts or excessive heat.

1. Locate the low beam or high beam lead on one headlamp by using a circuit tester. Use the following procedure:
 - a. *For Fog Lamps:* Turn on the low beam headlamps. Connect the end of the circuit tester to ground (-) and use the tester to locate the headlamp low beam lead. Turn off the ignition and the headlamps. Disconnect the battery.
 - b. *For Driving Lamps:* Turn on the high beam headlamps. Connect the end of the circuit tester to ground (-) and use the tester to locate the headlamp high beam lead. Turn off the ignition and the headlamps. Disconnect the battery.
2. Scotch-lock the bare end of the GREEN wire to the low or high beam lead. Connect the other end of the GREEN wire to the switch terminal 3.
3. Attach the BLUE wires from the lamps to the three terminal BLUE wire and attach it to the vehicle ground.
4. Position the relay upright on the battery side of the engine compartment in an area that is not exposed to water spray, excessive heat, or moving parts. Make sure the relay is mounted close enough to the battery so the RED power lead will easily reach the positive (+) terminal of the battery.
5. Connect the RED wire to the positive (+) battery terminal and to the relay terminal labeled 30.
6. Route the BLACK wires from the lamps to the relay. Connect the BLACK wire to the lamp terminals and to the relay terminal labeled 87.
7. Connect one BLUE lead to the vehicle ground and to the relay terminal labeled 85.
8. Connect the other BLUE lead to the vehicle ground and to switch terminal 1.
9. Connect the YELLOW wire to switch terminal 2 and to the relay terminal labeled 86.
10. Test the operation of the lamps as follows: Re-connect the battery. Turn on ignition switch and low beam headlamps for *Fog Lamps*, or high beam headlamps for *Driving Lamps*. Activate auxiliary lamp switch. If lamps do not illuminate, check fuses and all wiring connections.
11. Use wire ties to secure any slack portion of the harness in the engine compartment away from moving parts or excessive heat.

Lamp Aiming

Loosen the bolts securing the lamp to the bracket to adjust the lamps up or down. Loosen the mounting bolts to the vehicle to adjust the lamps left and right. Position the vehicle on a flat surface at a distance of 25' (7.6 m) from a wall. Measure the distance from the center of the lamp to the ground and mark off the same height on the wall. For **Fog Lamps**, adjust them so the top of the beam is 4" (102mm) below the center line mark on the wall. For **Driving Lamps**, adjust them so the bright spot of the beam pattern is on the centerline mark on the wall.

If you have any questions or comments, please consult your local automotive technician or call:

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