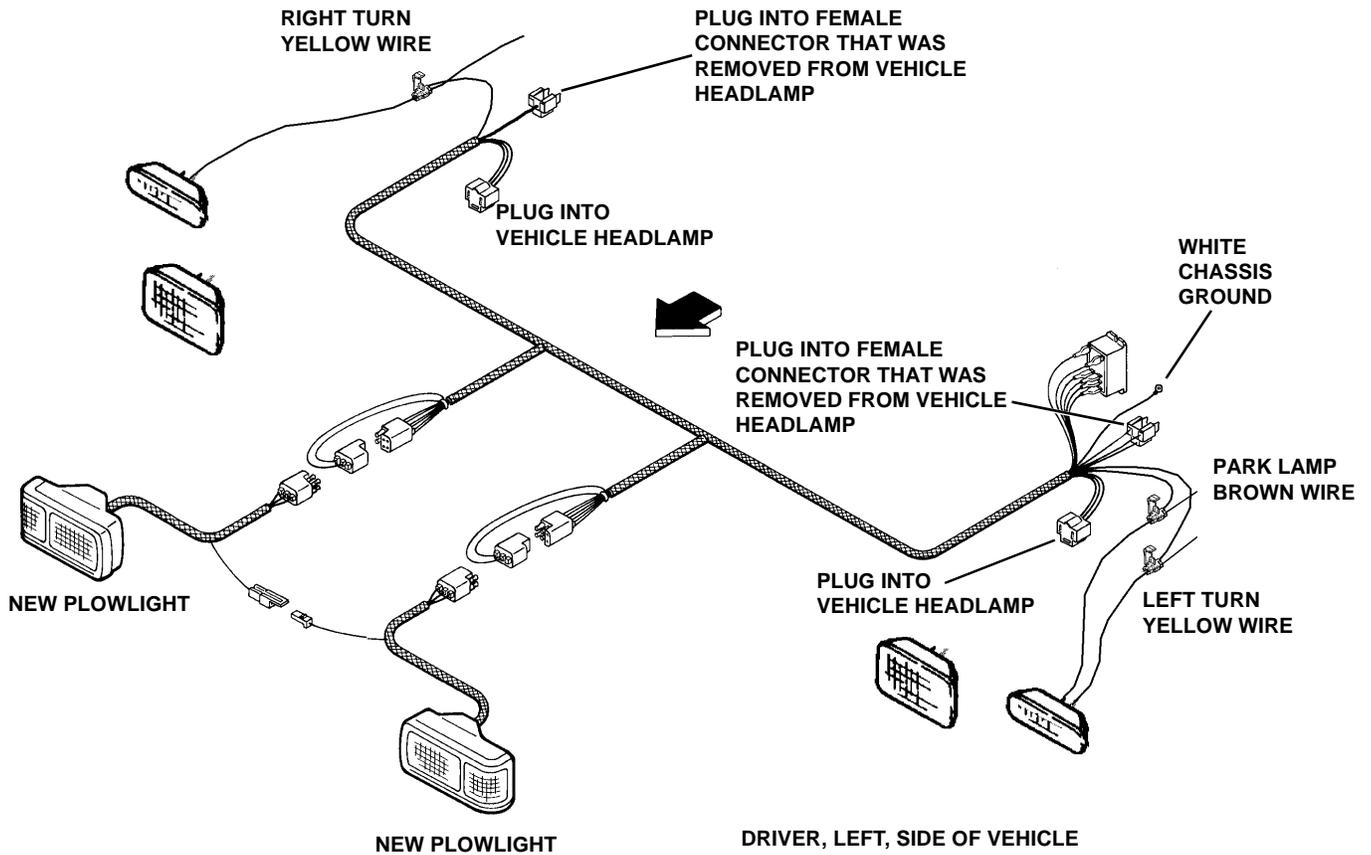


# WIRING DIAGRAM & INSTALLATION INSTRUCTIONS FOR 99100197 PLOWLIGHT WIRING HARNESS

## RELAY WIRE CONNECTIONS

FUNCTION	WIRE COLOR	RELAY PIN NO.
GROUND	PINK	0
PARK LIGHTS	BROWN	1
LOW BEAM IN	RED	4
LOW BEAM TRUCK	RED/WHITE	3
LOW BEAM PLOW	RED/BLACK	2
HIGH BEAM IN	ORANGE	8
HIGH BEAM TRUCK	ORANGE/WHITE	7
HIGH BEAM PLOW	ORANGE/BLACK	6

PASSENGER,  
RIGHT, SIDE OF VEHICLE



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1. **THINK SAFETY, ALWAYS WEAR SAFETY GLASSES WHEN PERFORMING THE OPERATIONS PRESCRIBED IN THESE INSTRUCTIONS**
2. **READ ALL INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION**



#### ASSEMBLY TOOLS NEEDED:

Sockets	7/16"—1-3/8"
Wrenches	7/16"—1-3/8"
Drill	5/32"
Plastic Wire Ties	

#### INSTALLATION

**IMPORTANT: Use a dielectric compound on all connections to prevent corrosion.**

1. Disconnect the vehicle headlight electrical connector from the back of the vehicle headlamps.

*NOTE: This may require the removal of the headlamp assembly from the front of the vehicle if the connector is not easily accessible.*

2. Attach the individual wire terminals from the Plowlight Harness to the Relay using the table showing the Relay Wire Connections as a guide.
3. Position the harness in the engine compartment such that the relay wires, with relay, are located on the drivers side of the vehicle. The relay should be near the driver side headlamp inside the engine compartment.



### CAUTION

**Make sure that wire harness is routed away from all moving engine components.  
Example, Fan, Belts etc.**

4. If it has been determined that an adapter harness is required for this vehicle, refer to the instructions supplied with the adapter harness, then proceed to the next step.

*NOTE: Holes may have to be drilled in front valance sheet metal to pass wire harness through. Be careful not to drill into radiator or AC core. Line all holes with appropriate grommets available locally.*

5. Route the harness to the right side of the vehicle by running harness between the radiator and the grille.
6. Place Plow Light Connectors on outside of grille.
7. Attach the Plowlight Harness Connectors to right and left vehicle headlamps.

8. Attach the Plowlight Harness to the driver, left, side main vehicle harness. This connector was previously connected to the driver side vehicle headlamp.
9. Attach the Plowlight Harness to the passenger, right, side main vehicle harness. This connector was previously connected to the passenger side vehicle headlamp. Make sure this wire is receiving 12 volts from the headlight circuit during both low and high beam functions. If the male plug on this black wire is not compatible with the female lead in the vehicle harness, snip the plug off and use a Scotch-Lock® to tap into the appropriate wire (12 volts in both low and high beam functions).
10. Locate the left turn signal wire on the vehicle wire harness. Using Scotch-Lock® connector (#96002039) splice Yellow Plowlight Harness wire to vehicle turn signal wire.
11. Locate the right turn signal wire on the vehicle wire harness. Using Scotch-Lock® connector, splice Yellow Plowlight Harness wire to vehicle turn signal wire.
12. Locate the left park light wire on the vehicle wire harness. Using Scotch-Lock® connector, splice Brown Plowlight Harness wire to vehicle park wire.
13. Locate the White Ground wire with Ring Terminal on the Plowlight Harness. Attach ring terminal to a good clean chassis ground.
14. If disassembled, reassemble vehicle components.
15. Secure Plowlight Harness to a safe location with electricians tape or plastic wire ties. Excess harness length should be neatly coiled and taped or tied out of the way.



### CAUTION

**Make sure that wire harness is routed away from all moving engine components.  
Example, Fan, Belts etc.  
DO NOT attach wire harness to hoses, radiator AC coils, exhaust manifolds, or control cables.**

16. Turn on vehicle lights and check operation.
17. Plug in Plowlights to Plowlight Harness and check to make sure vehicle headlamps go out and Plow Headlights come on. Check park and turn signals.
18. Locate the relay on the fender or other flat, accessible location away from exhaust manifolds and mark location of mounting points.
19. Drill locations with 5/32" drill and secure relay with (2) #10-16 x 1" Self Tapping Washer Head Screws (#98100037) provided.