



**WESTERN PRODUCTS**  
 P.O. BOX 245038  
 MILWAUKEE, WISCONSIN 53224-9538



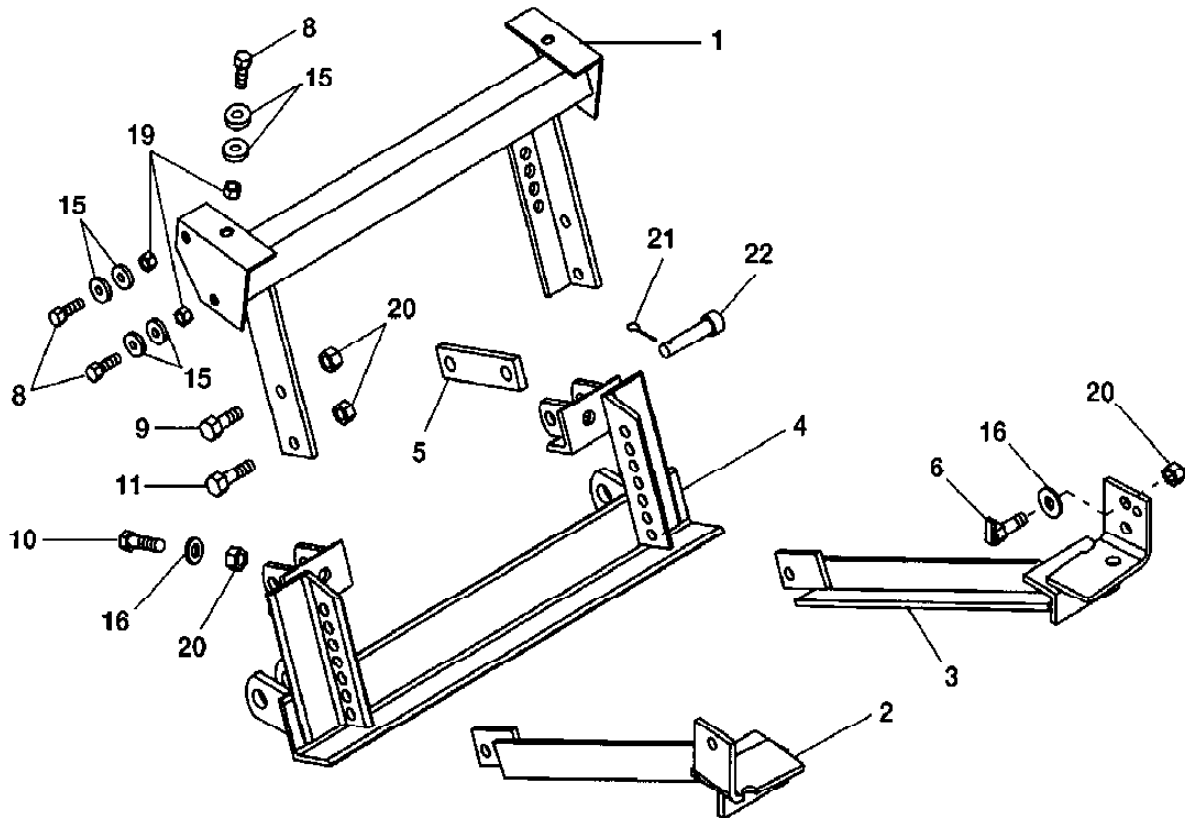
A DIVISION OF DOUGLAS DYNAMICS, L.L.C.

Vehicle Installation Instructions and  
 Parts List

Model 1515  
 Mount Assembly Box No. 61770  
 Chev/GMC Light Truck 1981-1987 4 x 4  
 Blazer/Jimmy/Suburban 1981-1991 4 x 4  
 Hydraulics Box No. 56365  
 Harness Kit No. 61545 or 61565 or 61580  
 October 31, 2003

Refer to the current  
 selection list for  
 minimum vehicle  
 recommendations and  
 ballast requirements.

**Mount Assembly Box No. 61770**  
**PARTS DIAGRAM & LIST**



ITEM	PART NO.	QTY.	DESCRIPTION
1	61761	1	MOUNT FRAME 1515
2	61744	1	THRUST ARM DR
3	61750	1	THRUST ARM CU
4	61753	1	SPREADER
5	61432	2	LINK ARM
6	62059	2	BOLT 5/8" SPECIAL
8	90100	6	1/2-13X1-1/2 HX CS G5 ZYC
9	90128	2	5/8-11X1-3/4 HX CS G5 ZP
10	90129	2	5/8-11X2 HX CS G5 ZP
11	90130	2	5/8-11X2-1/4 HX CS G5 ZP
15	911051	2	1/2 PLAIN WASHER TY A STD ZYC
16	91139	4	5/8 PLAIN WASHER TY A SAE ZP
19	91335	6	1/2-13 PT HX LK NUT NYIS ZYC
20	91337	8	5/8-11 PT LK NUT NYIS ZYC
21	91911	2	5/32X1-1/2 COTTER PIN ZYC
22	93062	2	RIVET 3/4" X 3-1/4" G5 ZYC
PARTS NOT SHOWN			
	22381	1	BATTERY ADAPTERS, SIDE TERMINAL
	61536	4	CABLE TIE - LONG
	56080	1	DASH BRACKET

Abbreviations	
ASSY	Assembly
CS	Cap Screw
CU	Curb-Side
DR	Driver-Side
G	Grade
HX	Hex
LK	Lock
NYIS	Nylon Insert
PT	Prevailing Torque
SAE	Society of Automotive Engineers
STD	Standard
TY	Type
ZP	Zinc Plate
ZYC	Zinc Yellow Chromate

Parts listed above may be found in the following assembly  
 61767 1 BOLT BAG ASSY (61770)

This product is manufactured under the following patents: 4,280,062, 5,420,480, 5,125,174, and 4,999,935. The following are registered® and unregistered™ trademarks of Douglas Dynamics, L.L.C.: WESTERN®, ISARMATIC®, Hydra-Turn®, UniMount®, Roll-Action™, and PRO-GUARD™. Western Products reserves the right under its Product Improvement Policy to change construction details and furnish equipment when so altered without reference to illustrations or specifications used herein.

**Mount Box No. 61770  
INSTALLATION INSTRUCTIONS**

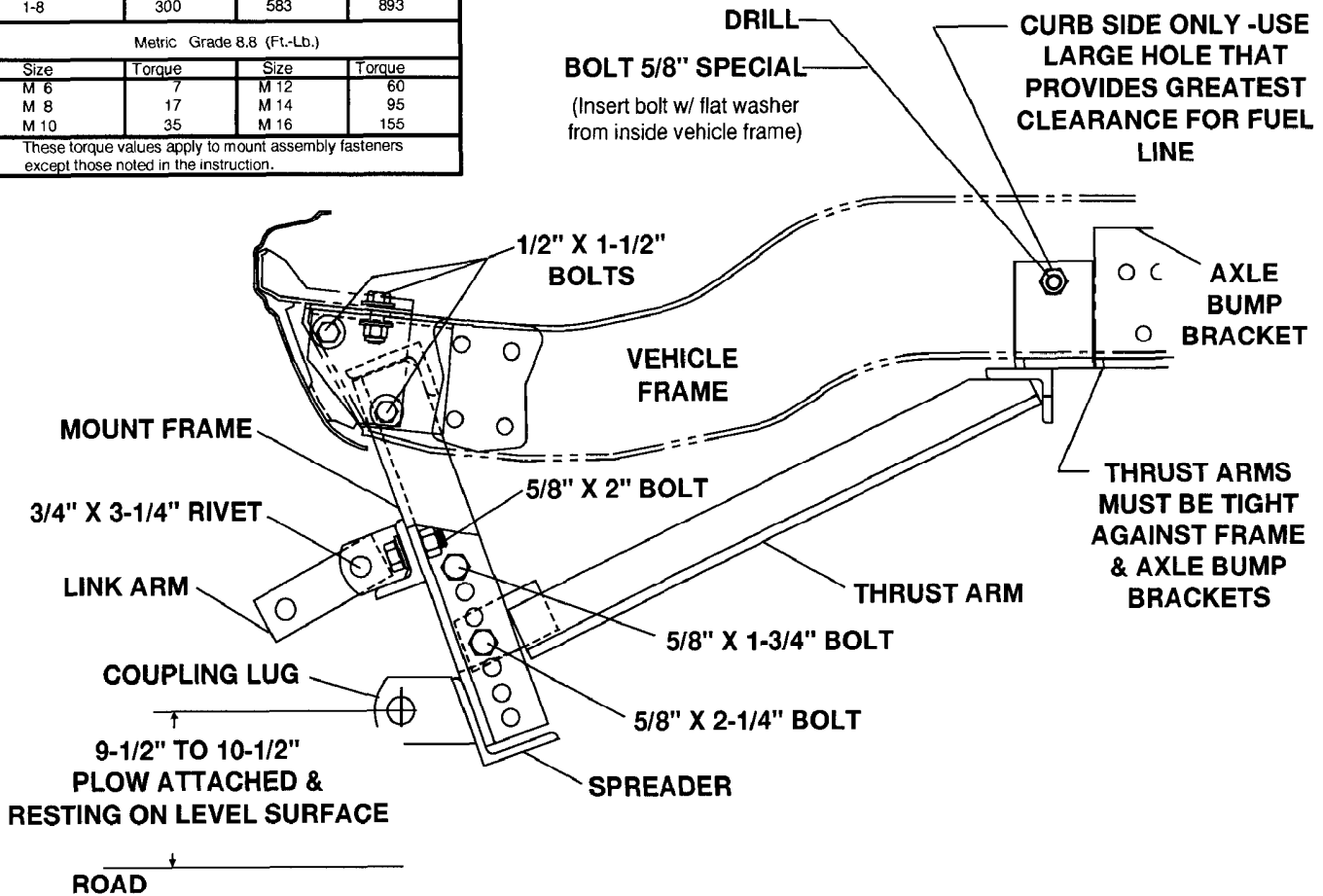
Recommended Fastener Torque Chart (Ft.-Lb.)			
Size	SAE		SAE
	Grade 2	Grade 5	Grade 8
1/4-20	6	9	13
5/16-18	11	18	28
3/8-16	19	31	46
3/8-24	24	46	68
7/16-14	30	50	75
1/2-13	45	75	115
9/16-12	66	110	165
5/8-11	93	150	225
3/4-10	150	250	370
7/8-9	202	378	591
1-8	300	583	893

Metric Grade 8.8 (Ft.-Lb.)			
Size	Torque	Size	Torque
M 6	7	M 12	60
M 8	17	M 14	95
M 10	35	M 16	155

These torque values apply to mount assembly fasteners except those noted in the instruction.

**AS VIEWED FROM  
DRIVER SIDE**



**IMPORTANT:** Read instructions before assembling. Bolts should be finger tight until instructed to tighten per torque chart. Use standard methods and practices when attaching snowplow including wearing safety glasses when drilling.

**MOUNT FRAME:**

**IMPORTANT:** Vehicles equipped with an air dam must have the air dam removed. Retain the air dam and reinstall whenever the mount assembly is removed from the vehicle.

1. Disconnect park/turn lights from the bumper and remove bumper from the vehicle. Remove bumper brackets from vehicle frame horns.
2. Slide mount frame inside vehicle frame horns and align holes in side bars to the bumper bracket holes. Reinstall bumper brackets using three 1/2" x 1-1/2" bolts, flat washers to brackets and side bars and locknuts on each side.

**SPREADER:**

1. Assemble spreader to mount frame.

During spreader installation, allow for drop in vehicle height when weight of plow is added. Final coupling lug hole center to level surface distance should be 9-1/2" to 10-1/2" with plow attached and resting on the level surface. (See Coupling Lug Height Check near end of these instructions.)

Secure spreader to upper holes in sides of mount frame angles with one 5/8" x 1-3/4" bolt and locknut on each side.

2. Fasten spreader to front of mount frame angles through hole located between upper pairs of lugs with one 5/8" x 2" bolt, flat washer to slot and locknut on each side.

## THRUST ARM - CU & DR:

1. Position flat bar of each thrust arm to inside of mount frame hanger angle and other end tight to bottom and outside of vehicle frame and tight against axle bump bracket. Clamp each thrust arm to frame.
2. Attach thrust arm flat bar to spreader and bottom hole in mount frame hanger angle with one 5/8" x 2-1/4" bolt and locknut on each side.
3. Tighten top bolts in vehicle frame horn to specified torque shown in torque chart.
4. Tighten thrust arm, spreader and mount frame bolts to specified torque shown in torque chart.
5. **CAUTION:** Before drilling, check for clearance to avoid damage to brake or fuel lines. Drill a 5/8" hole through each frame rail using attaching bars as templates. On curb side, drill top or bottom hole depending on which provides the greatest amount of clearance to fuel line.
6. Fasten each thrust arm to vehicle frame. From inside vehicle frame, insert a 5/8" special bolt with a flat washer through the frame and thrust arm. Secure with a locknut against the thrust arm.

## REPLACE VEHICLE BUMPER

Replace bumper using existing fasteners.

### TIGHTEN ALL BOLTS TO CORRESPONDING TORQUE CHART VALUES.

## LINK ARM:

Fasten a link arm between each upper pair of spreader lugs with one 3/4" x 3-1/4" grade 5 rivet and cotter pin per side.

**NOTE:** After 5 to 10 hours of snowplow usage, retorque all mount assembly fasteners.

**NOTE:** During electrical installation, THE LONG BATTERY GROUND CABLE (no stripe) MUST BE GROUNDED TO THE NEGATIVE BATTERY TERMINAL.

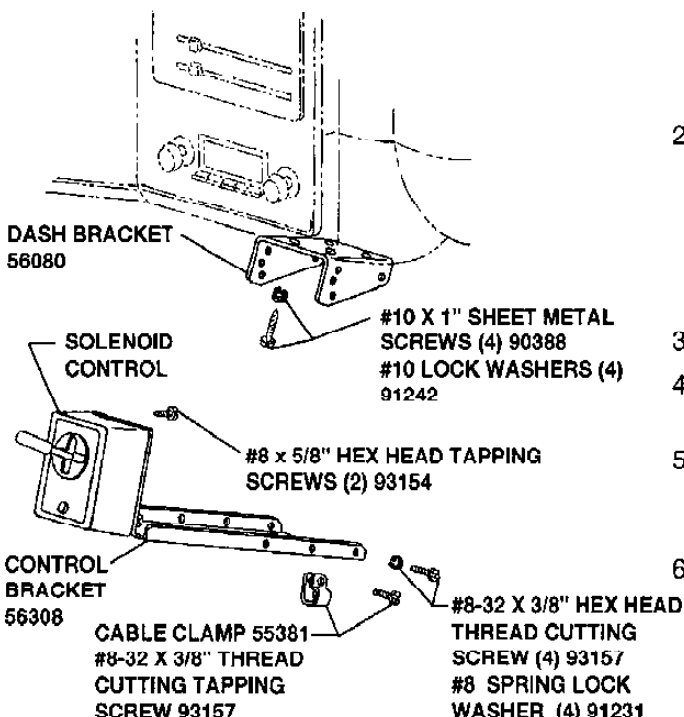
## HARNESS KIT SELECTION

For DUAL Type 2B Headlamps - Use Box No. 61540 Headlamp Kit 9-Pin and 61545 Harness Kit 2B/2D 9-Pin -A.

For QUAD Type 1A & 2A - Use Box No 61540 Headlamp Kit 9-Pin and 61565 Harness Kit 1A & 2A 9-Pin -A.

For QUAD Type LF & UF - Use Box No 61540 Headlamp Kit 9-Pin and 61580 Harness Kit LF & UF 9-Pin -A.

## Solenoid Control and Dash Bracket INSTALLATION INSTRUCTIONS



1. Secure solenoid control to control bracket using two #8 x 5/8" hex head tapping screws, and control bracket to dash bracket using four #8 x 3/8" hex head thread cutting screws. Secure control cable to control bracket with cable clamp using one #8 x 3/8" hex head thread cutting screw.
  2. Locate assembly to the dash as shown, below and to the right of the radio, or wherever is most convenient. The dash bracket should fit fairly flat against the bottom surface of the dash. Verify that control will clear vehicle components in all positions. Check for clearance before drilling holes.
  3. Mark this location.
  4. Remove the dash bracket. Place dash bracket in selected location and mark four holes.
  5. Drill 1/8" holes in marked locations. Secure dash bracket using four #10 x 1" sheet metal screws and lock washers.
  6. Place control into dash bracket and fasten in desired position reusing fasteners from paragraph 1 above.
- NOTE:** Bend top flange of control bracket to desired position.

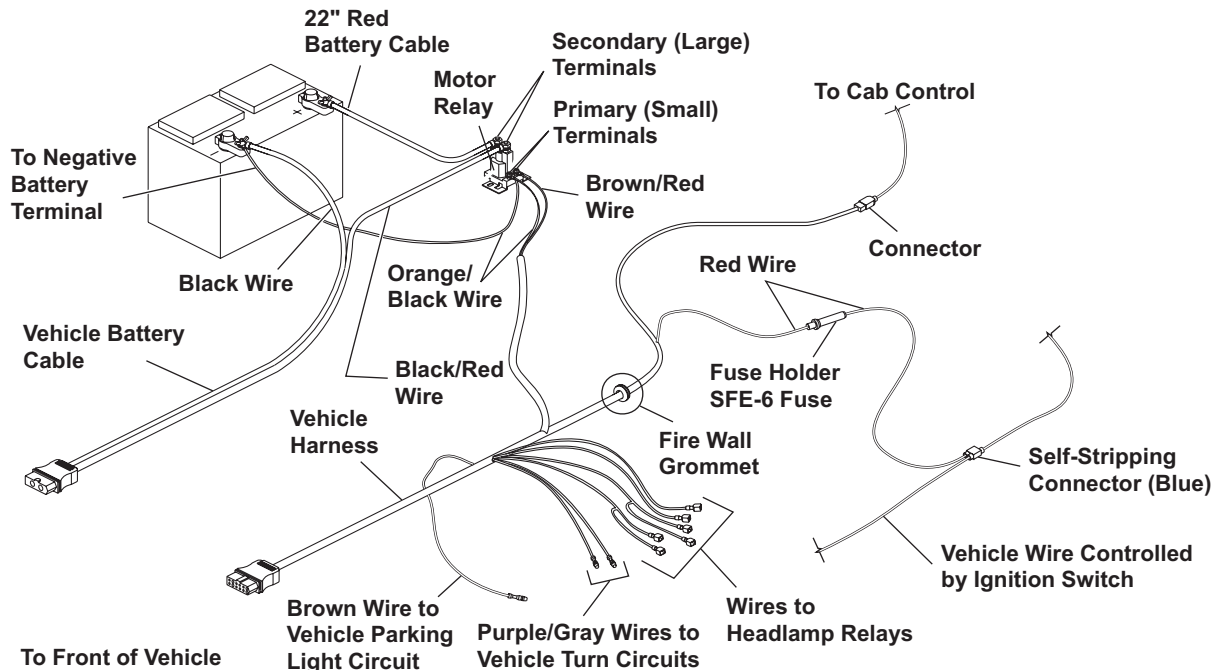


**SAFETY NOTE:** Whenever you see this symbol, it notes a **SAFETY WARNING**. To avoid serious injury to yourself or others, follow all warnings.

**Vehicle Underhood  
INSTALLATION INSTRUCTIONS**

**9-Pin Vehicle Harness And Motor Relay**

**HARNESS, SOLENOID CONTROL & MOTOR RELAY INSTALLATION DIAGRAM**



Except as noted, parts to be installed are found in the hydraulics box.

**CAUTION:** To prevent corrosion on all underhood electrical connections, use dielectric grease to fill receptacles and lightly coat ring terminals and blades before assembling, or lightly coat the connections after assembling.

1. Identify wires for the parking lamp on the driver-side and the turn signals on both sides of the vehicle. Attach a black self-stripping bullet receptacle connector (found in harness kit) to each of these three wires.  
OPTION: Identify wires for parking lamps and both turn signals in the main harness behind the driver-side headlamp. Attach a black self-stripping bullet receptacle connector to each of these three wires.
2. Remove **NEGATIVE** battery cable from battery.



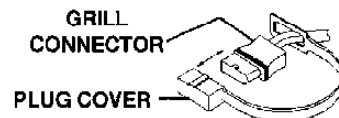
**WARNING:** Electrical shock hazard. Disconnect battery before beginning electrical installation.

3. Find a location for the motor relay where it will be protected from road splash and will be within 18" of the vehicle primary battery.

**NOTE:** Motor relay terminals must be up or horizontal.

Using the motor relay mounting plate as a template, drill two 9/32" holes, and mount motor relay to holes using 1/4" x 3/4" bolts, flat washers, and lock nuts.

4. Route 22" red battery cable between a large motor relay terminal and the **POSITIVE (+)** battery terminal, taking care to avoid sharp edges and hot or moving parts. Attach cable to motor relay terminal with a lock washer and 5/16"-24 jam nut. Attach cable to the battery **POSITIVE (+)** terminal with the furnished battery adapter. (Adapters found in mount box.) Tighten battery adapter to 124–178 in-lb. Attach OEM battery cable to adapter with original bolt. Hold adapter while tightening original bolt to 124–178 in-lb.
5. Stretch rectangular openings of plug cover straps (found in harness kit) over grill connector ends of long battery cable assembly (found in hydraulics box) and vehicle harness (found in harness kit). Place plug covers over molds on harnesses.  
Except as noted, parts to be installed are found in the hydraulics box.



6. Find a location in the vehicle grill on the battery side for mounting the battery cable grill connector. The best location is at least 10-1/2" from the center of the grill and at a convenient height for connecting the plow plugs. Allow grill connector of each harness to hang out in front of grill. Allow enough cable so it is easy to mate and remove connector. Secure with long cable ties (found in mount box).
7. Route battery cable through the grill at the selected location and through or around the radiator bulkhead to motor relay taking care to avoid sharp edges, and hot or moving parts.
8. Attach cable with red stripe to the unused large terminal on the motor relay, and secure it with a lock washer and 5/16"-24 jam nut.
9. Route cable without stripe **directly to the NEGATIVE battery terminal** (carefully separate the two cables as needed to reach the battery). **DO NOT** attach cable to battery at this time.
10. Find a location in grill on driver-side for mounting the vehicle harness (similar position to battery cable mount). See Steps 6 & 7 above for how to mount. Route vehicle harness through grill and around, or through radiator bulkhead (drill 5/8" hole if needed) into engine compartment.
11. Route the wires that break out of the vehicle harness to the area behind the driver-side headlamp. Route rest of harness to the firewall. Drill a 5/8" hole through the firewall in a convenient location away from hot or moving engine parts.

**IMPORTANT:** All vehicles with DRL's — insert fuse holder on pink wire of DRL Adapter Kit (P.N. 61584) through firewall first. Route end of pink wire with receptacles to area of driver-side headlamp.

Feed vehicle harness fuse holder through hole and then feed the plastic connector and harness through to the cab. Disassembly of the fuse holder may make it easier to pass through 5/8" hole.

12. Route brown/red and orange/black (early revision harnesses have brown/red and black/orange wires) wire loom to motor relay. Early revision harnesses must be modified if CabCommand control is being installed. (See instructions furnished with CabCommand control.)  
Attach the brown/red and orange/black (early revisions black/orange) wires small ring terminals to separate small terminals on motor relay using a lock washer and #10-32 nut for each connection.
13. Route the orange/black wire with 3/8" ring terminal to the battery negative post. **DO NOT** attach wire to battery at this time.
14. Inside the cab, route vehicle harness connector to solenoid or CabCommand control and couple the connectors together.
15. Attach the hydraulic unit black battery cable and orange/black wire terminal to the negative terminal with the furnished battery cable adapter. (Adapters found in mount box.) Tighten battery adapter to 124–178 in-lb. Attach OEM battery cable to adapter with original bolt. Hold adapter while tightening original bolt to 124–178 in-lb.
16. Locate an accessory wire or unused fuse box terminal capable of carrying 7 amps and controlled by the ignition (key) switch. Route the vehicle harness SFE-6\* fuse holder red wire to this location and trim off any excess length of wire (keep fuse holder in system).

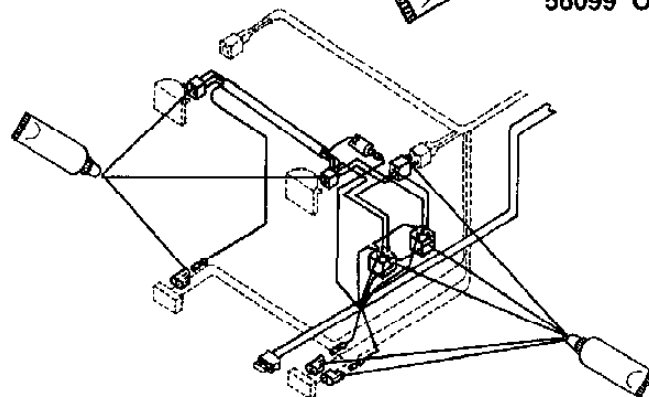
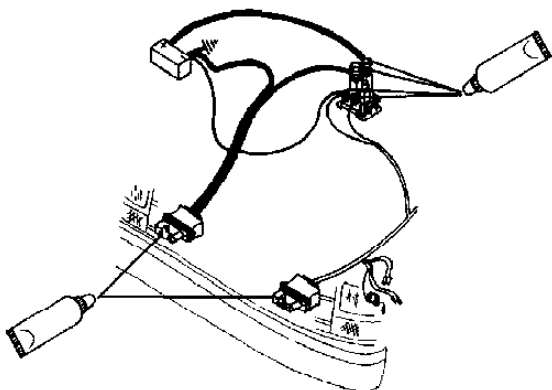
Fuse block terminal as source: attach a terminal (not furnished) to the vehicle harness red wire and plug on to fuse box terminal. If DRL wire is used, crimp pink wire into the same terminal with the red wire.

Accessory wire as source: Open blue self stripping connector and place the end of the red wire against the inner groove stop (end of wire must not extend from the connector), and the accessory wire in the outer groove. Close connector over the wires using a pliers and snap the locking tab in place. Repeat with DRL pink wire.

\*Early style harnesses have a 10 amp fuse which must be replaced with SFE-6 fuse for Cab Command Control.

**REMINDER:** To prevent corrosion on all underhood electrical connections, use dielectric grease to fill receptacles, including grill connectors, and lightly coat ring terminals and blades before assembly or lightly coat connections after assembly.

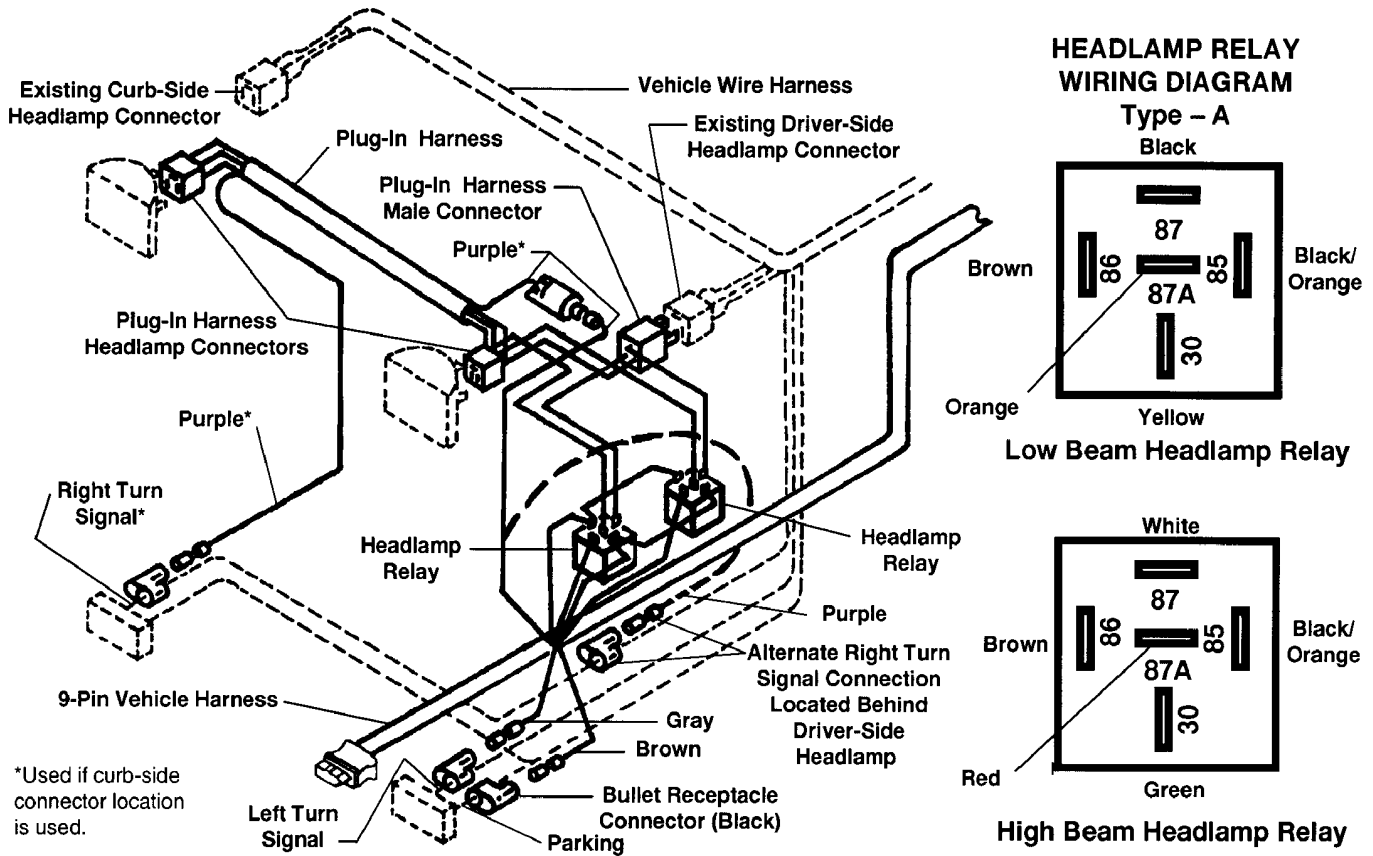
**DIELECTRIC GREASE - P.N. 56099 OR 49326**



# HEADLAMP WIRING DIAGRAM

(Dual Headlamps Shown. For Quad Headlamps, see next page)

## PLUG-IN HARNESS & HEADLAMP RELAY INSTALLATION



\*Used if curb-side connector location is used.

### DUAL VEHICLE HEADLAMP PLUG-IN HARNESS & HEADLAMP RELAYS

**REMANDER:** Lubricate all receptacles and blades with dielectric grease before assembling.

1. In the engine compartment behind the driver-side headlamp, insert wire bullets from 9-pin vehicle harness into black bullet connectors (installed in step one of previous section) as follows:

Brown wire to parking lamp wire on driver-side.

Gray wire to left turn signal wire on driver-side.

If optional bullet connector location is used — vehicle harness purple wire to right turn signal wire on driver-side.

2. At the vehicle driver-side headlamp, remove the connector from the headlamp and couple matching connector with plug-in harness 3-wire male plug (plug-in harness found in harness kit). Attach plug-in harness headlamp connector to headlamp terminals.
3. Route other end of plug-in harness along radiator bulkhead or over radiator shroud to curb-side headlamp. Remove headlamp connector and secure connector with a cable tie (found in harness kit). Attach plug-in harness headlamp connector to headlamp terminals.

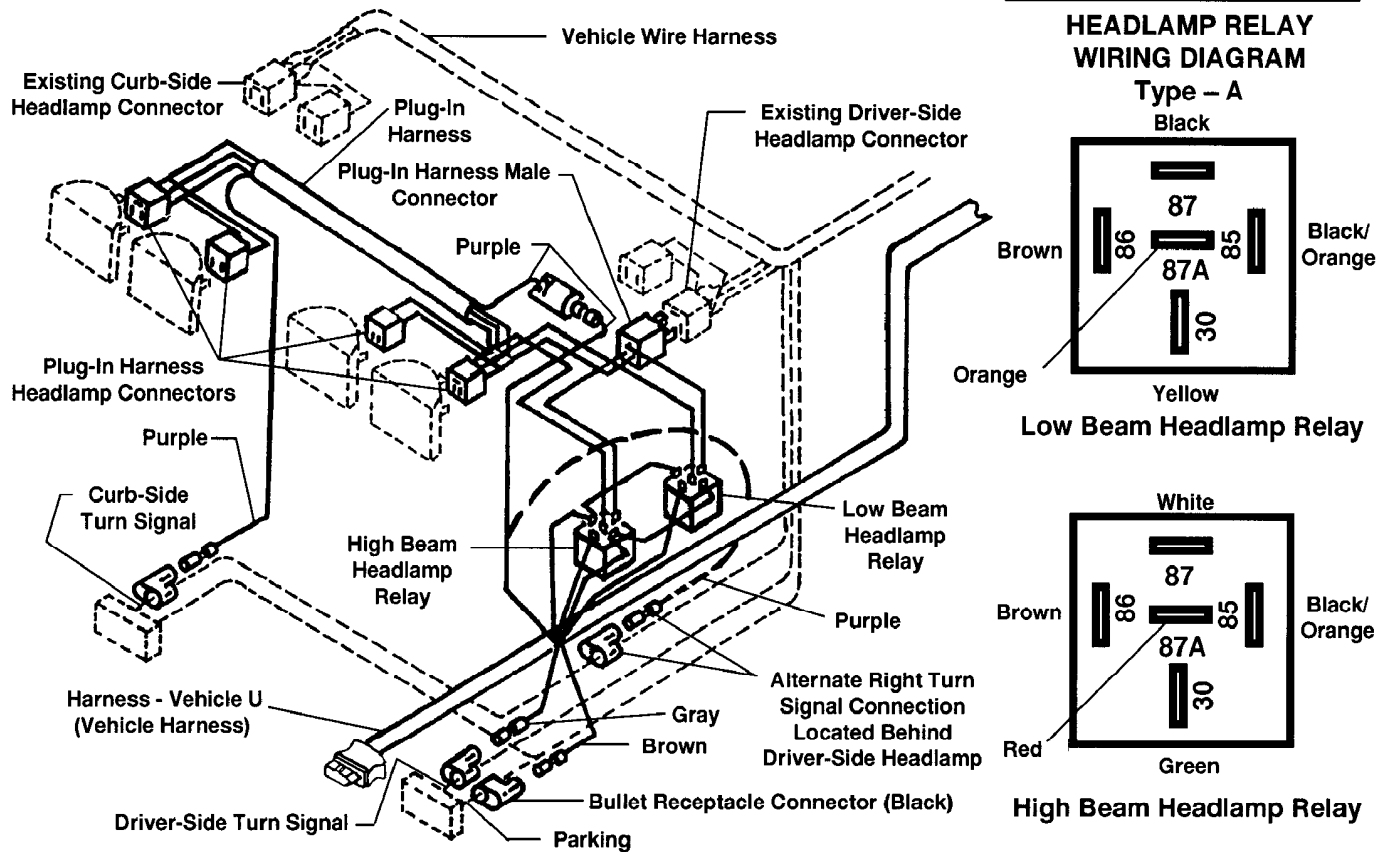
If optional right turn signal connector location is used, skip steps 4 & 5. Purple wire in plug-in harness is not used.

4. On the curb-side, insert purple wire bullet from plug-in harness into vehicle turn signal black bullet connector installed in step one of the previous section.
5. At the driver-side headlamp, insert the purple wire bullet from the 9-pin vehicle harness into the purple wire receptacle on the plug-in harness.
6. At driver-side headlamp, connect 9-pin vehicle and plug-in harness wires with receptacles to the two headlamp relays (found in harness kit) as shown in the above diagram.
7. Place grommet around 9-pin vehicle harness and insert into firewall hole (also put a grommet in the radiator bulkhead hole if one was drilled). Use cable ties (found in harness kit) to secure harnesses, relays and wires away from sharp edges, and hot or moving engine parts and to prevent accidental grounding of connections.
8. Replace the vehicle turn signal flasher with the flasher furnished in the harness kit.
9. Lubricate terminal cavities of both grill connectors with dielectric grease. Give the dielectric grease tube to vehicle owner for future lubrication of grill connectors.

## HEADLAMP WIRING DIAGRAM

(Quad Headlamps Shown. For Dual Headlamps, see previous page)

## PLUG-IN HARNESS & HEADLAMP RELAY INSTALLATION



### QUAD VEHICLE HEADLAMP PLUG-IN HARNESS & HEADLAMP RELAYS

**REMANDER:** Lubricate all receptacles and blades with dielectric grease before assembling.

1. In the engine compartment behind the driver-side headlamp, insert wire bullets from 9-pin vehicle harness into black bullet connectors (installed in step one of previous section) as follows:

Brown wire to parking lamp wire on driver-side.

Gray wire to left turn signal wire on driver-side.

If optional bullet connector location is used — vehicle harness purple wire to right turn signal wire on driver-side.

2. Remove park/turn lamp housing to access headlamp connectors on quad composite type headlamps. At the vehicle driver-side headlamp, remove the connectors from the headlamps and couple matching connectors with plug-in harness two 2-wire male plugs (plug-in harness found in harness kit). Attach plug-in harness headlamp connectors to headlamp terminals.
3. Route other end of plug-in harness along radiator bulkhead or over radiator shroud to curb-side headlamps. Remove headlamp connectors and secure connectors with a cable tie (found in harness kit). Attach plug-in harness headlamp connectors to headlamp terminals.

If optional right turn signal connector location is used, skip steps 4 & 5. Purple wire in plug-in harness is not used.

4. On the curb-side, insert purple wire bullet from plug-in harness into vehicle turn signal black bullet connector installed in step one of the previous section.
5. At the driver-side headlamp, insert the purple wire bullet from the 9-pin vehicle harness into the purple wire receptacle on the plug-in harness.
6. At the driver-side headlamp, connect 9-pin vehicle and plug-in harness wires with receptacles to the two headlamp relays (found in harness kit) as shown in the above diagram.
7. Place grommet around 9-pin vehicle harness and insert into firewall hole (also put a grommet in the radiator bulkhead hole if one was drilled). Use cable ties (found in harness kit) to secure harnesses, relays and wires away from sharp edges, and hot or moving engine parts and to prevent accidental grounding of connections.
8. Replace the vehicle turn signal flasher with the flasher furnished in the harness kit.
9. Lubricate terminal cavities of both grill connectors with dielectric grease. Give the dielectric grease tube to vehicle owner for future lubrication of grill connectors.



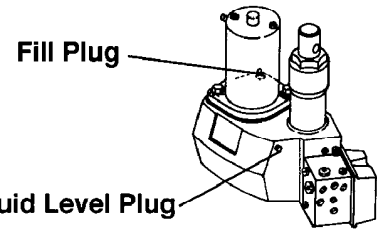
**OPERATIONAL TESTS AND ADJUSTMENTS**

Mount plow assembly to vehicle. (See label on back of blade or owner's manual for mounting instructions.)

**Filling Hydraulic Unit**

1. Push lift channel all the way down.
2. Remove fill plug and fluid level plug.
3. Fill unit through fill plug hole until fluid runs out of fluid level plug hole. Replace both plugs.

Use: automatic transmission fluid (ATF) Dexron III to -10° F (-23° C),  
WESTERN® High Performance Fluid to -25° F (-32° C),  
Texaco 1537 Aircraft Hydraulic Oil for temperatures below -25° F (-32° C).



4. Turn ignition (key) switch to the ON or ACCESSORY position.
5. Turn the control ON/OFF switch to the ON position.
6. Move control lever to angle left and angle right several times to remove air from Hydra-Turn® rams. **DO NOT raise blade as this may cause pump cavitation.**
7. Refill unit with fluid following the procedure in step three of this section.
8. Move the control lever as indicated on label to control the plow. Raise and lower plow several times to remove air. Recheck fluid level according to step three of this section.

Capacity: Solenoid ISARMATIC® Mark IIIa reservoir 1-3/4 quarts  
Equipped with 10" Hydra-Turn rams 2-3/8 quarts



**WARNING:** To prevent accidental movement of plow, always turn the solenoid control to the OFF position when not using the mounted plow.

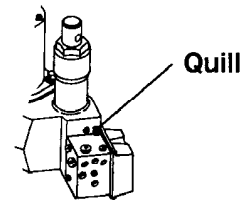
**Blade Drop Speed Adjustment**

The quill on the top rear of the valve manifold (see diagram) adjusts blade drop speed.

Turn quill IN (clockwise) to decrease drop speed.

Turn quill OUT (counterclockwise) to increase drop speed.

**NOTE:** Turning quill too far in can slow raise time

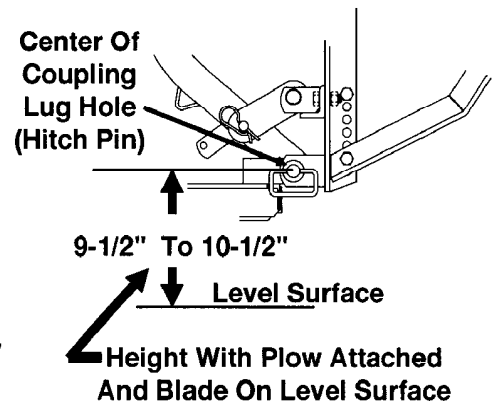


**COUPLING LUG HEIGHT CHECK**

**COUPLING LUG HEIGHT CHECK**

1. Mount plow to vehicle (see label on back of blade or owner's manual for mounting instructions). Add recommended ballast (see page 1).
2. Lift plow and move vehicle a minimum of 10 feet. Lower blade.
3. After step 2, with: blade on level surface, slack in lift chain, rear ballast located behind rear wheels, the center of the coupling lug holes (hitch pin shaft) to level surface should measure 9-1/2" to 10-1/2". To obtain height, adjust spreader position.

**NOTE:** Coupling height must be 9-1/2" minimum to allow stand to be pinned to lift frame.



4. Adjust chain slack with plow mounted to vehicle, and lift channel pushed all the way down. To adjust, remove chain from hook. Straighten chain and pull tight. Rehook it to the lift channel. After it is hooked, it will have the correct amount of slack for blade "float". DO NOT remove chain from lift channel when removing plow from vehicle.



**FINAL HYDRAULIC INSPECTION**

1. Make sure all fasteners and hydraulic and electrical connections are tight.
2. Check ram packing nuts for oil leakage. If any leakage is observed, tighten the packing nut 1/4 turn after you feel the nut contact the packing. Do not over tighten — over tightening affects cylinder operation and shortens the life of the packing. A short period of normal operation will allow chevron packings to become saturated, and leakage will normally stop.

**VEHICLE LIGHTING CHECK**

**VEHICLE LIGHTING CHECK**

1. Check the operation of vehicle and plow lights with plow mounted to vehicle and both plow plugs connected.

**Turn signals and parking lamps**

- |                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| Parking lamps ON     | Both vehicle and plow parking lamps should be on at the same time.           |
| Right turn signal ON | Both vehicle and plow right turn signal lamps should flash at the same time. |
| Left turn signal ON  | Both vehicle and plow left turn signal lamps should flash at the same time.  |

**Headlamps**

Move vehicle headlamp switch to the ON position. Connecting and disconnecting the 9- or 12-pin plow plug from the grill connector should switch between vehicle and plow headlamps as follows:

- |                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| 9- or 12-pin plow plug DISCONNECTED | Vehicle headlamps should be on, plow headlamps off. |
| 9- or 12-pin plow plug CONNECTED    | Plow headlamps should be on, vehicle headlamps off. |

Dimmer switch should dim whichever headlamps are operating. The high beam indicator on the dash should light when either set of headlamps is on high beam.

**Solenoid Control or CabCommand Control**

- 9-pin vehicle harness revision 10 and later or
- 12-pin vehicle harness revision 8 and later or
- 9-pin or 12-pin vehicle harnesses – earlier revisions modified for CabCommand Control:

The control indicator light should light whenever the control ON/OFF switch and the ignition (key) switches are both turned ON. The plow plugs do not need to be connected to the grill connectors.

**Solenoid Control used with earlier revision harnesses**

- 9-Pin revision 7, 8, or 9 vehicle harnesses or
- 12-pin revision 5, 6, or 7 vehicle harnesses:

The control indicator light should light whenever the control ON/OFF switch and the ignition (key) switches are both turned ON and the plow plugs are connected to the grill connectors.

- 9-pin or 12-pin vehicle harnesses – all earlier revisions:

The indicator light will also light when the control and ignition (key) switches are on the plow plugs are disconnected. If the parking lights are turned on (with plug plugs disconnected), the indicator light will go out.

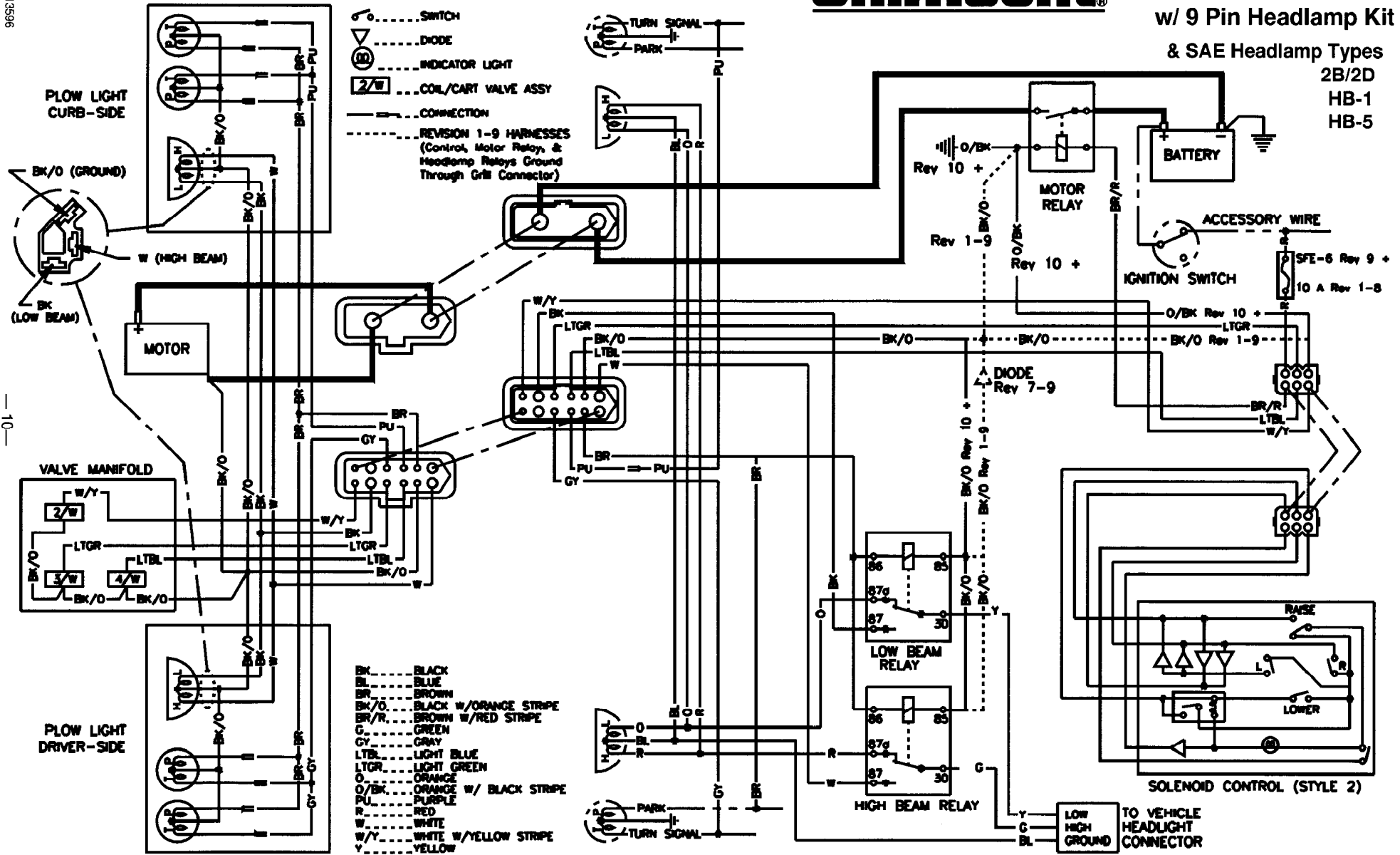
2. Connect plow plug to grill connector. Raise plow and aim plow headlamps according to SAE J599 Lighting Inspection Code (See Service Bulletin SP 608) and any applicable federal, state, or local regulations.
3. Check aim of vehicle headlamps with plow removed.
4. When plow is removed from the vehicle, install plug covers on grill connectors and insert the plow plugs into the boot on the hydraulic unit.

**NOTE: After using the snowplow for 5-10 hours, retorque all mount assembly fasteners.**

Solenoid Control — 9-Pin Vehicle Harness Revision 10 & later — The control indicator light will light whenever the control ON/OFF switch and the ignition (key) switch are both turned ON. The plow plugs and grill connectors do not need to be connected for the control light to be on.



**Wiring Diagram**  
**Harness Type – A**  
**w/ 9 Pin Headlamp Kit**  
**& SAE Headlamp Types**  
 2B/2D  
 HB-1  
 HB-5



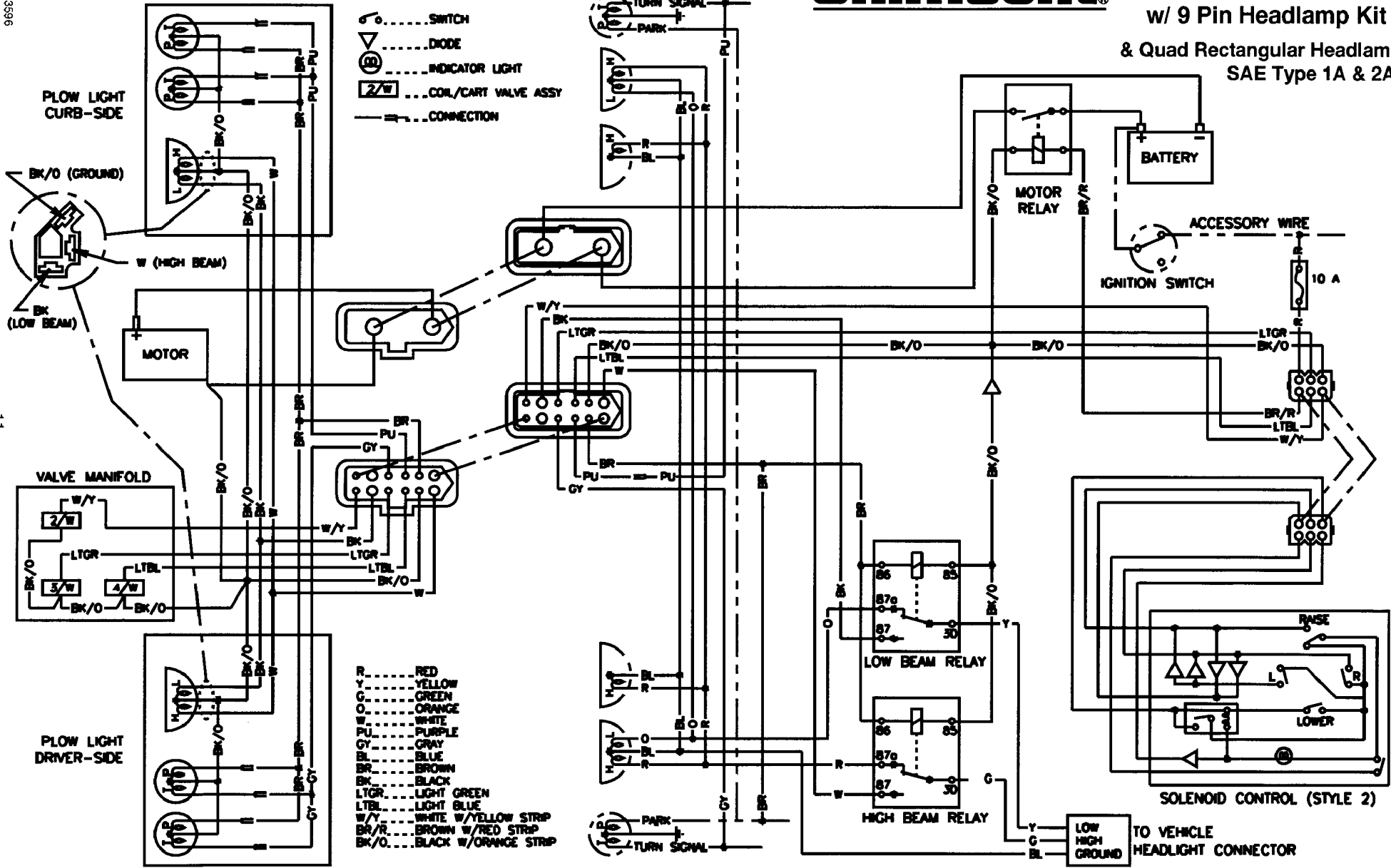
Solenoid Control — The control indicator light should light whenever the control ON/OFF switch and the ignition (key) switch are both turned ON and the plow plugs are connected to the grill connector.

The indicator light will also be on when the control and ignition (key) switches are ON and the plow plugs are disconnected. If the parking lights are turned on (with plow plugs disconnected), the indicator light will go out.

Solenoid Control — 9-Pin Vehicle Harness Revision 10 & later — The control indicator light will light whenever the control ON/OFF switch and the ignition (key) switch are both turned ON. The plow plugs and grill connectors do not need to be connected for the control light to be on.



**Wiring Diagram**  
**Harness Type – A**  
**w/ 9 Pin Headlamp Kit**  
**& Quad Rectangular Headlamps**  
**SAE Type 1A & 2A**



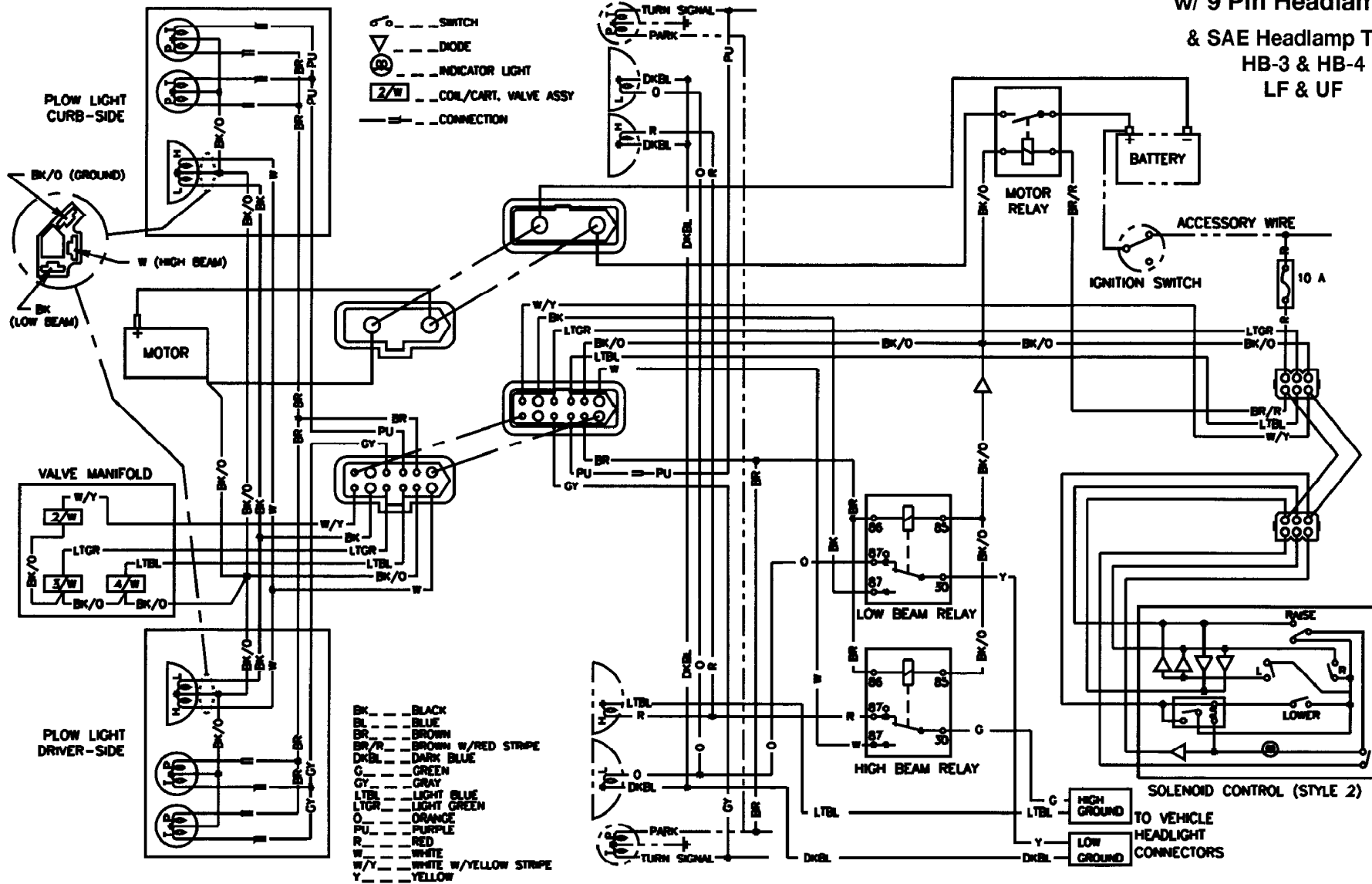
Solenoid Control — The control indicator light should light whenever the control ON/OFF switch and the ignition (key) switch are both turned ON and the plow plugs are connected to the grill connector.

The indicator light will also be on when the control and ignition (key) switches are ON and the plow plugs are disconnected. If the parking lights are turned on (with plow plugs disconnected), the indicator light will go out.

Solenoid Control — 9-Pin Vehicle Harness Revision 10 & later — The control indicator light will light whenever the control ON/OFF switch and the ignition (key) switch are both turned ON. The plow plugs and grill connectors do not need to be connected for the control light to be on.



### Wiring Diagram Harness Type – A w/ 9 Pin Headlamp Kit & SAE Headlamp Types HB-3 & HB-4 LF & UF



Solenoid Control — The control indicator light should light whenever the control ON/OFF switch and the ignition (key) switch are both turned ON and the plow plugs are connected to the grill connector.

The indicator light will also be on when the control and ignition (key) switches are ON and the plow plugs are disconnected. If the parking lights are turned on (with plow plugs disconnected), the indicator light will go out.

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## NOTES

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## NOTES

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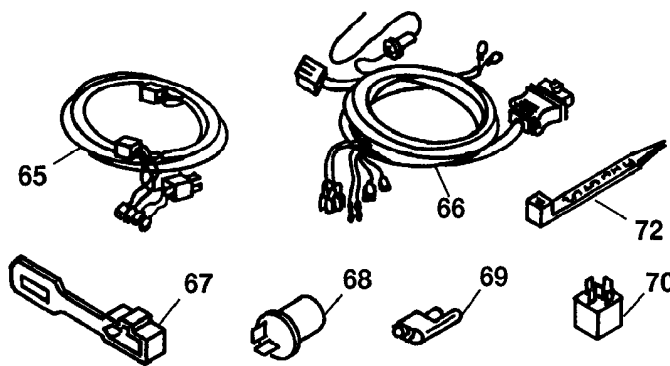
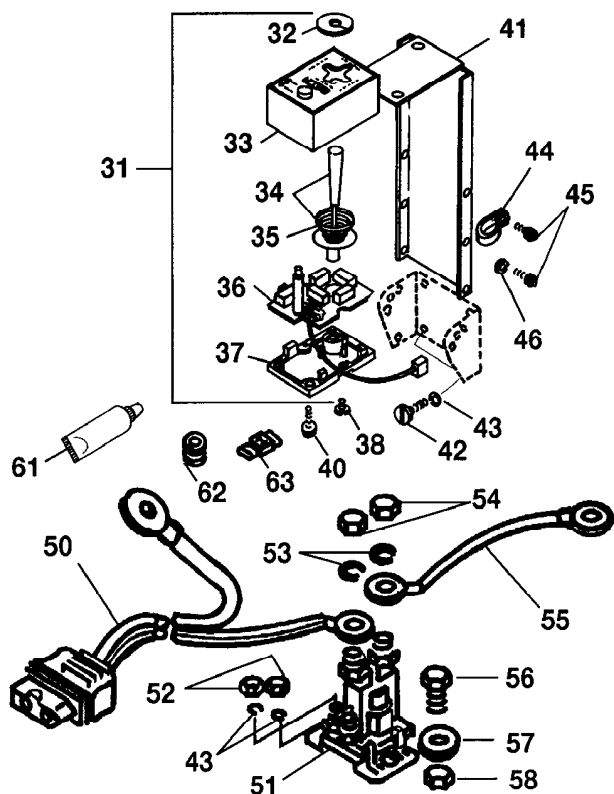
## NOTES

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Mount Assembly Box No. 61770  
 Harness Kit Box No. 61545 or 61565 or 61580  
 Hydraulics Box No. 56365

**PARTS DIAGRAM & LIST**



ITEM	PART NO.	QTY.	DESCRIPTION
Found in Hydraulics Box No. 56365			
31	56369	1	SOLENOID CONTROL (Style 2)
32	56283	1	SHIELD
33	49286	1	BODY W/LABEL & LENS (Style 2)
34	49287	1	LEVER, SPRING & ACTUATOR KIT (Style 2)
35	55923	1	SPRING - CONICAL
36	49283	1	PC BOARD ASSY MOLEX (Style 2)
37	56199	1	BASE
38	93153	2	#6-19X3/8 SL HXW TFTS HILO
40	93154	2	#8-18X5/8 SL HXW TFTS HILO
41	56308	1	CONTROL BRACKET
42	90388	4	#10X1 SL PN TFTS TY AB BZP
43	91242	4	#10 SP LK WASHER BPO
44	55381	1	CABLE CLAMP
45	93157	5	#8-32X3/8 SL HXW TCTS TY T BP
46	91231	4	#8 SP LK WASHER BP
50	61169	1	CABLE ASSEMBLY - VEHICLE
51	56134K	1	RELAY-SOLENOID HYDRAULIC SYS
43	91242	2	#10 SP LK WASHER BPO
52	91402	2	#10-32 HX NUT ZP
53	91202	2	5/16 SP LK WASHER ZP
54	92842	2	5/16-24 HX JAM NUT
55	22511	1	BATTERY CABLE 22" RED
56	90002	2	1/4-20X3/4 HX CS G2 ZP
57	91101	2	1/4 PLAIN WASHER TY A STD ZP
58	91331	2	1/4-20 PT HX LK NUT NYIS ZP
61	56099	1	DIELECTRIC GREASE TUBE (0.25 oz.)
	49326	1	WESTERN DIELECTRIC GREASE TUBE (2 oz.)
62	66130	2	RUBBER GROMMET
63	59114	1	SELF STRIP WIRE CONNECTOR

Parts listed above may be found in one of these assemblies.

56368	1	CARTON ASSY LOOSE PARTS U
56367	1	BOLT BAG ASSY LARGE U
56358	1	BOLT BAG SMALL U

ITEM	PART NO.	QTY.	DESCRIPTION
Found in Harness Kit Box No. 61545 or 61565 or 61580			
65	61546	1	PLUG-IN HARNESS 2B/2D U -A (For Harness Kit No. 61545)
	61566	1	PLUG-IN HARNESS 1A & 2A U -A (For Harness Kit 61565)
	61581	1	PLUG-IN HARNESS LF & UF U -A (For Harness Kit 61580)
66	61437	1	VEHICLE HARNESS 9-PIN U
67	61548	2	PLUG COVER U
68	60109	1	FLASHER HD
69	59224	3	BULLET RECEPTACLE CONNECTOR
70	61535	2	HEADLAMP RELAY SPDT
72	59223	8	CABLE TIE

Parts listed above may be found in the following assembly.

61547	1	PARTS BAG
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ITEM	PART NO.	QTY.	DESCRIPTION
Found in Mount Box No. 61770			
85	61536	4	CABLE TIE - LONG
90	56080	1	DASH BRACKET

Parts listed above may be found in the following assembly.

61767	1	BOLT BAG ASSY (61770)
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Abbreviations			
ASSY	Assembly	SL	Slotted
BP	Black Phosphate	SP	Spring
BPO	Black Phosphate & Oil	SPDT	Single Pole Double Throw
BZP	Black Zinc Plate	STD	Standard
CS	Cap Screw	SYS	System
G	Grade	TCTS	Thread Cutting Tapping
HD	Heavy Duty		Screw
HX	Hex	TFTS	Thread Forming Tapping
HXW	Hex Washer		Screw
LK	Lock	TY	Type
NYIS	Nylon Insert	U	UniMount® System
PC	Printed Circuit	W/	With
PN	Pan	ZP	Zinc Plate
PT	Prevailing Torque		

Indented part numbers are included in the assembly under which they are listed. Quantities shown are included with the assembly.