



WESTERN PRODUCTS

7777 NORTH 73RD STREET P.O. BOX 23045

MILWAUKEE, WISCONSIN 53223

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

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

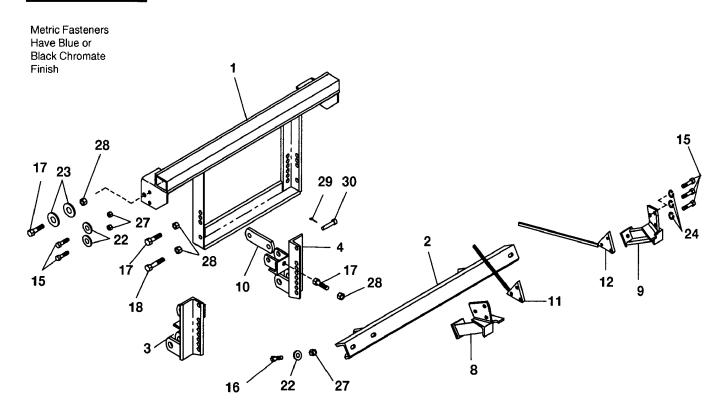


NOTE: This symbol designates a change made in the instructions since the last revision date of December 1, 1994.

Vehicle Installation Instructions and Parts List

Model 1275 Mount Assembly Box No. 61815 Ford F-150 4 x 4 1992 & Later Hydraulics Box No. 56365 Harness Kit No. 61590 January 2, 1996

Mount Assembly Box No. 61815 **PARTS DIAGRAM & LIST**



ITEM	PART NO.	OTV	DESCRIPTION	ITEM	PART NO.	OTY	DESCRIPTION		
1	61805	1	MOUNT FRAME 1265, 1275, 1295			٠	22001 11011		
١				Not S	hown				
2	61825	1	THRUST FRAME		56080	1	DASH BRACK		
3	61390	1	SPREADER DR		61536	4	CABLE TIE - I	LONG	
4	61391	1	SPREADER CU		62313	2	5/8 ID X 3"LG	CONVOLUTE	D TUBE
8	61823	1	MOUNT DR	Parts	listed above	e may b	e found in the foll	owing assembly	
9	61824	1	MOUNT CU		61818	1	BOLT BAG AS	SSY (61815)	<i>ች</i> ጽ
10	61412	2	LINK ARM		91055	2	M6-1.99X25 H	IXW CS G8.8	*** ****
11	61648	1	NUT BAR DR		91056	2	M6-1.00 HX N	IUT	ጽ ጵ
12	61649	1	NUT BAR CU		91119	2	3/16 SPECIAL	PLAIN WASH	ER
15	90100	10	1/2-13X1-1/2 HX CS G5 ZYC						
16	90101	2	1/2-13X1-3/4 HX CS G5 ZP						
17	90128	6	5/8-11X1-3/4 HX CS G5 ZP						
18	90130	2	5/8-11X2-1/4 HX CS G5 ZP						
22	91105	6	1/2 PLAIN WASHER TY A STD ZYO)			Abbreviations		1
23	91106	4	5/8 PLAIN WASHER TY A STD ZP		ASSY	Assembly	LK	Lock	
24	91205	6	1/2 SP LK WASHER ZYC		CS	Cap Scre Curb-Side		Nylon Insert Prevailing Torque	
27	91335	6	1/2-13 PT HX LK NUT NYIS ZYC		DR	Driver-Sic	le SP	Spring	i
28	91337	8	5/8-11 PT HX LK NUT NYIS ZYC		G HX	Grade Hex	STD TY	Standard Type	
29	91911	2	5/32X1-1/2 COTTER PIN ZYC		HXW ID	Hex Wash		Zinc Plate Zinc Yellow Chromate	
30	93062	2	RIVET 3/4" X 3-1/4" G5 ZYC		LG	Long			

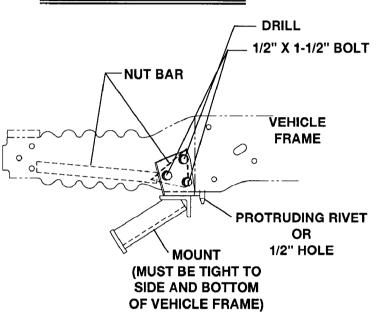
Recommended Fastener Torque Chart (FtLb.)						
Size	SAE Grade 2	SAE Grade 5				
1/4-20	6	9	13			
5/16-18	11	18	28			
3/8-16	19	31	46			
3/8-24	24	46	68			
7/16-14	30	50	75			
1/2-13	45	75	115			
9/16-12	66	110	165			
5/8-11	93	150	225			
3/4-10	150	250	370			
7/8-9	202	378	591			
1-8	300	583	893			
Metric Grade 8.8 (FtLb.)						
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.						

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

MOUNTS - DR & CU

- 1. Remove the bumper, with brackets attached, from the vehicle frame.
- Locate mounts tight to outside and bottom of vehicle frame and against long protruding rivet. (Vehicles without frame rivets, locate mounts to front edge of 1/2" holes in bottom of vehicle frame rails.) Clamp mounts in place.
- 3. Use each mount as a template to drill three 9/16" holes in each side of vehicle frame.
- 4. Install a nut bar inside each vehicle frame rail aligning it to drilled holes. Fasten each mount to a nut bar with three 1/2" x 1-1/2" cap screws and lock washers. Tighten cap screws to corresponding torque chart value.

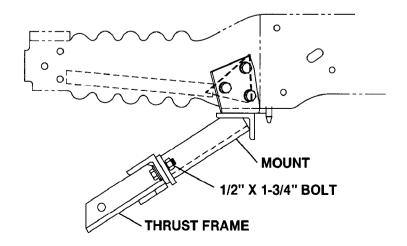
AS VIEWED FROM DRIVER SIDE



AS VIEWED FROM DRIVER SIDE

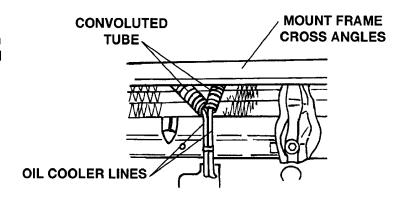
THRUST FRAME

Loosely attach thrust frame to each mount with a 1/2" x 1-3/4" bolt, flat washer and locknut. Install flat washers against slots.

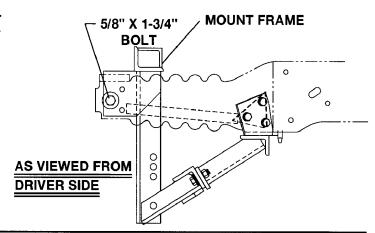


MOUNT FRAME

 Vehicles with transmission cooler located in front of the radiator on the curb-side. Install a convoluted tube over each cooler line above the "Y" formed by the cooler lines.



- 2. Place mount frame onto vehicle frame horns. Align large holes in side plates to large holes (or slots) in vehicle frame.
- 3. Fasten each side with a 5/8" x 1-3/4" bolt, two flat washers, and locknut. Install flat washers against mount frame and vehicle frame. Install nut to inside of vehicle frame.



SPREADERS - DR & CU

1. Position a spreader frame, link arm lugs towards center of vehicle, between each mount frame angle and thrust frame angle.

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

2. On each side, insert:

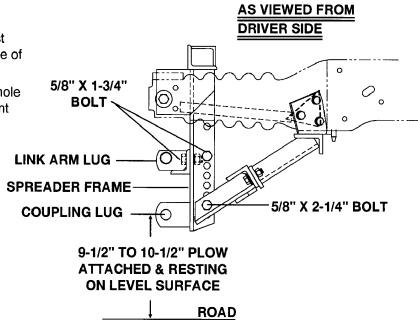
a 5/8" x 2-1/4" bolt through the thrust frame, spreader frame and lower hole of mount frame angle,

a 5/8" x 1-3/4" bolt through highest hole possible in spreader frame and mount frame angle,

and a 5/8" x 1-3/4" bolt through hole between link arm lugs and front of mount frame angle.

Loosely retain each bolt with a locknut.

 Starting with the mount frame to vehicle frame fasteners, tighten all bolts to corresponding torque chart values.



Continue on to next page.

Form No. 13602 — 3 —

SECURING MOUNT FRAME

- 1. Use each mount frame side bar as a template to drill two 1/2" holes into the side of each vehicle frame rail.
- 2. Secure each side with two 1/2" x 1-1/2" bolts, flat washers, and locknuts. Install flat washers against vehicle frame.

LINK ARMS

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

AS VIEWED FROM DRIVER SIDE 1/2" X 1-1/2" BOLT bolts, shers 3/4" X 3-1/4" Gr. 5 RIVET LINK ARM

DRILL

BUMPER

- 1. Reinstall bumper to original position using the existing fasteners.
- 2. The air deflector may require notching for clearance of link arm lugs, or it may be removed from the vehicle. If reinstalling deflector, use existing fasteners. If deflector is removed from vehicle, retain deflector and fasteners and reinstall whenever the snowplow mount is removed from the vehicle.

TIGHTEN ALL BOLTS TO CORRESPONDING TORQUE CHART VALUES.



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

HARNESS KIT SELECTION:

For DUAL replaceable bulb type HB-5 headlamps - Use Box No. 61540 Headlamp Kit 9-Pin and 61590 Harness Kit HB-5 9-Pin -A.

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

Plow may be removed from vehicle for installation of electrical components.

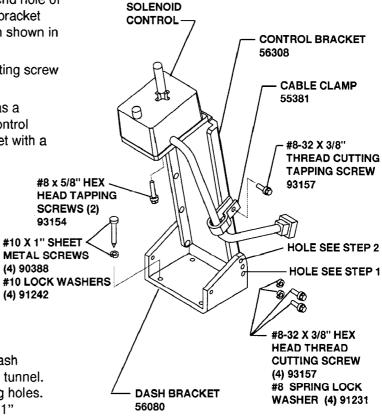
Form No. 13602 — 4 —

Solenoid Control INSTALLATION INSTRUCTIONS

 Align dash bracket hole shown in diagram to end hole of control bracket. NOTE: Top flange of control bracket may be reversed in dash bracket from position shown in diagram.

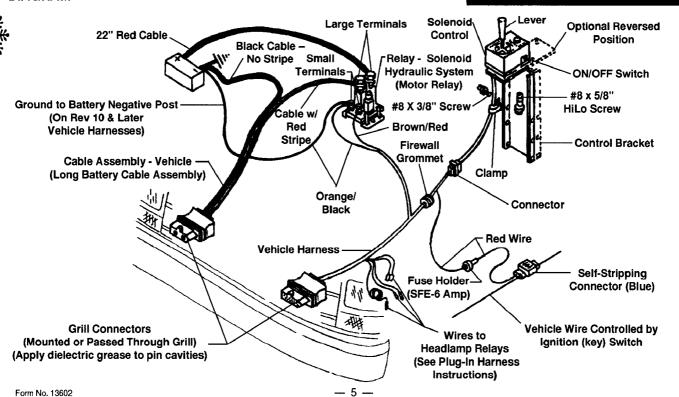
Attach with one #8 x 3/8" hex head thread cutting screw and lock washer on each side.

- Use top holes in dash bracket (see diagram) as a template to drill a 9/64" hole in each side of control bracket. Secure dash bracket to control bracket with a second screw and lock washer in each side.
- 3. Secure solenoid control to control bracket with two #8 x 5/8" hex head tapping screws.
- Move seat forward and 4 wheel drive lever toward seat. Locate control and bracket assembly on floor tunnel so that it does not interfere with the operation of vehicle controls. Mark this location.
- 5. Remove control bracket from dash bracket.
- Place dash bracket in marked location. Use dash bracket as a template to drill four 1/8" holes in tunnel. CAUTION: Check for clearance before drilling holes. Secure dash bracket to tunnel with four #10 x 1" tapping screws and lock washers.
- 7. Reassemble control bracket to dash bracket. Bend top flange of control bracket to desired position.
- 8. Secure harness to control bracket with cable clamp and one #8 x 3/8" hex head thread cutting screw.



HARNESS, SOLENOID CONTROL & MOTOR RELAY INSTALLATION DIAGRAM

Vehicle Underhood INSTALLATION INSTRUCTIONS





WARNING: The symbol at left identifies a safety warning that indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

VEHICLE HARNESS AND MOTOR RELAY

Except as noted, parts to be installed are found in the hydraulics box. Refer to the diagram on the previous page for the following instructions.

CAUTION: To prevent corrosion on all under-hood 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 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.
- 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.

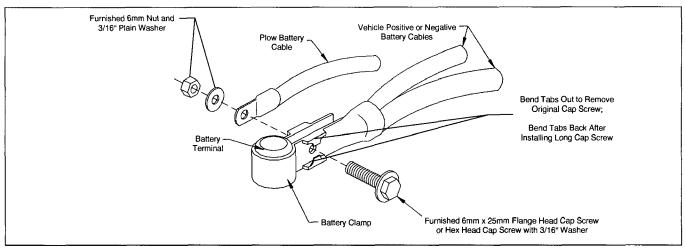
NOTE: Motor relay terminals must be up or horizontal.

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 locknuts.

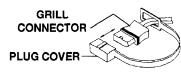


4. Route 22" red battery cable between a large motor relay terminal and the POSITIVE battery terminal avoiding sharp edges, and hot or moving parts. Attach cable to motor relay terminal with a lock washer and 5/16"-24 jam nut. Attach cable to battery POSITIVE terminal with existing terminal fastener.

1996 —The original equipment battery terminal clamp bolt is not long enough to secure the hydraulic unit battery cables. Remove the original cap screw and replace it with the items indicated in the diagram below (found in the mount box).



 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.





- 6. Find a location on 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 the motor relay avoiding sharp edges, and hot or moving parts.

Form No. 13602 — 6 —

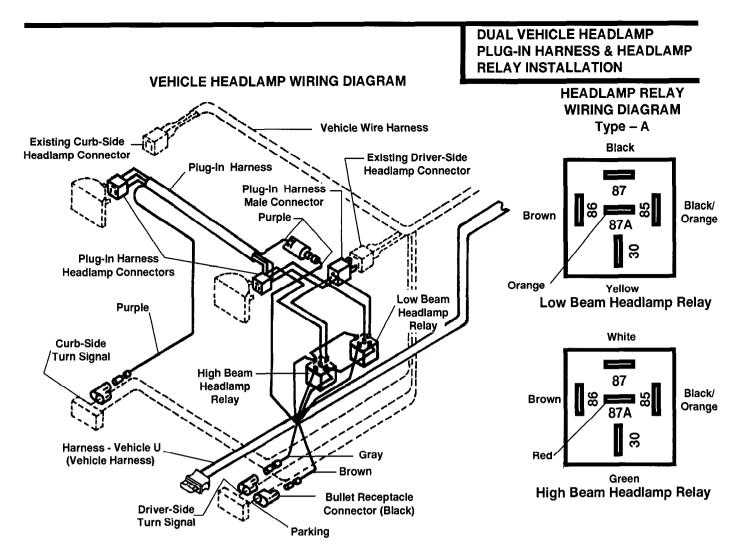
- 8. Attach cable with red stripe to the unused large terminal on the motor relay and secure it with a lock washer and 5/16"-24 jam nut.
- Route the battery cable without a stripe directly to the NEGATIVE battery terminal (carefully separate the two cables as needed to reach the battery ground). DO NOT 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 on previous page 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 sharp edges, and hot or moving engine parts.
 - **IMPORTANT**: On all vehicles with DRLs, insert fuse holder on pink wire of DRL Adapter Kit (PN 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. Disassembling 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 the CabCommand control is being installed. (See instructions furnished with the 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. Reconnect vehicle ground cable to the NEGATIVE battery terminal. Attach the hydraulic unit black battery cable and orange/black wire terminal to the negative clamp bolt or on the 1996 vehicles as shown in the diagram on the previous page.
- 16. Locate an accessory wire capable of carrying 7 amps in addition to existing circuit loads 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). If used, DRL pink wire requires 0.4 amps.
 Open the 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 closed connector), and the accessory wire in the outer groove. Close connector
- * Early style harnesses have a 10-amp fuse which must be replaced with SFE-6 fuse for CabCommand control.

over the wires using a pliers and snap the locking tab in place. Repeat with DRL pink wire.

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 assembling.

DIELECTRIC GREASE - Part Number 56099 or Part Number 49326

Form No. 13602



VEHICLE HEADLAMP PLUG-IN HARNESS & HEADLAMP RELAYS

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

- 1. In the engine compartment behind the driver-side headlamp, insert wire bullets from vehicle harness into black bullet connectors (installed in step one of previous section) with brown wire to parking lamp wire on driver side, and gray wire to left 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 (furnished in harness kit). Attach plug-in harness headlamp connector to headlamp terminals.
- 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 vehicle harness into the purple wire receptacle on the plug-in harness.
- 6. At driver-side headlamp, connect vehicle and plug-in harness wires with receptacles to the two headlamp relays (found in harness kit) as shown in the above diagram. (If vehicle has DRLs, replace brown wires with pink wire from DRL kit. Brown wires from vehicle harness are not used in DRL installations.)
- 7. Place grommet around vehicle harness and insert into firewall hole (also put a grommet in the hole in the radiator bulkhead 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 vehicle turn signal flasher with flasher furnished in harness kit.
- 9. Lubricate terminal cavities of both grill connectors with dielectric grease. Give dielectric grease tube to vehicle owner for future lubrication of grill connectors.

Continued on next page.

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.
- Fill unit through fill plug hole until fluid runs out of fluid level hole. Replace both plugs.

Fluid Level Plug



Use: automatic transmission fluid (ATF) Dexron III to -10° F (-23° C), or WESTERN® High Performance Fluid to -25° F (-32° C), or 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. This may cause pump cavitation.
- 7. Refill unit with fluid following the procedure in Step 3 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 3 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 the mounted plow is not in use.

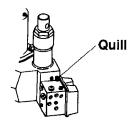
Blade Drop Speed Adjustment

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 guill too far in can slow raise time

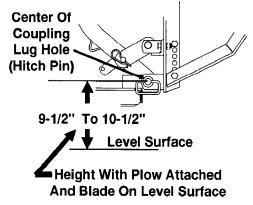


COUPLING LUG HEIGHT CHECK

Coupling Lug Height Check

- Mount plow to vehicle (see label on back of blade or Owner's Manual for mounting instructions). Add recommended ballast as found in selection list.
- 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, and rear ballast located behind rear wheels, the center of 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 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 overtighten overtightening 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-pin plow plug from the grill connector should switch between vehicle and plow headlamps as follows:

9-pin plow plug DISCONNECTED Vehicle headlamps should be on, plow headlamps off.
9-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 or CabCommand Control

9-pin vehicle harness revision 10 and later or

9-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 in the ON position. 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:

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 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 plow 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.

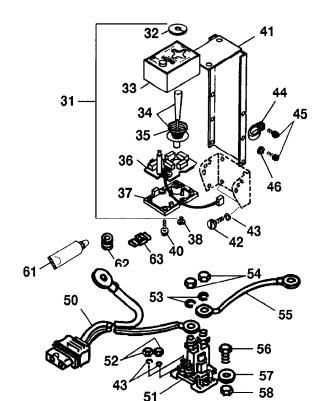
NOTE: After 5 to 10 hours of snowplow usage, retorque all mount assembly fasteners.

9-Pin Vehicle harnesses – P.N. 61437, rev. 7, 8, or 9 – The indicator light on the solenoid control will only light when both plow plugs and grill connectors are connected and the ignition (key) switch and control on/off switch are both turned on.

WHITE W/YELLOW STRIPE

9-Pin Vehicle harnesses with revision numbers prior to listed revisions at right – 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.

HEADLIGHT CONNECTOR



ITEM PART NO. QTY. DESCRIPTION

Found in Hydraulics Box No. 56365

56369 SOLENOID CONTROL (Style 2) 31 1 32 . 56283

SHIELD

33 . 49286 BODY W/LABEL & LENS (Style 2) 1 34 . 49287 LEVER, SPRING & ACTUATOR

KIT (Style 2)

35 . 55923 SPRING - CONICAL

36 . 49283 PC BOARD ASSY MOLEX (Style 2) 1

37 . 56199 **BASE** 1

2 38 . 93153 #6-19X3/8 SL HXW TFTS HILO

2 40 93154 #8-18X5/8 SL HXW TFTS HILO

41 56308 1 CONTROL BRACKET

#10X1 SL PN TFTS TY AB BZP 42 90388

43 91242 #10 SP LK WASHER BPO

44 55381 1 CABLE CLAMP

45 93157 5 #8-32X3/8 SL HXW TCTS TY T BP

46 91231 #8 SP LK WASHER BP

50 61169 1 CABLE ASSEMBLY - VEHICLE

51 56134K **RELAY-SOLENOID HYDRAULIC SYS** 1

43 . 91242 #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

22511 55 1 **BATTERY CABLE 22" RED**

56 90002 2 1/4-20X3/4 HX CS G2 ZP

57 2 91101 1/4 PLAIN WASHER TY A STD ZP

58 91331 1/4-20 PT HX LK NUT NYIS ZP

61 56099 DIELECTRIC GREASE TUBE

(0.25 ounce)

49326 WESTERN DIELECTRIC GREASE

TUBE (2 ounce)

62 66130 RUBBER GROMMET

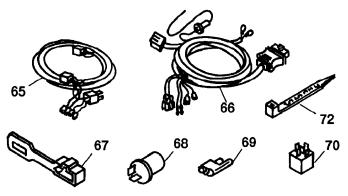
59114 SELF STRIP WIRE CONNECTOR

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

CARTON ASSY LOOSE PARTS U 56368 . 56367 **BOLT BAG ASSY LARGE U** 1

. . 56358 1 **BOLT BAG SMALL U** Hydraulics Box No. 56365 **PARTS DIAGRAM & LIST**

Mount Assembly Box No. 61815 Harness Kit Box No. 61590



ITEM PART NO. QTY. DESCRIPTION

Found in Harness Kit Box No. 61590

65 61591 PLUG-IN HARNESS HB-5 U -A 1 (For Harness Kit No. 61590)

61437 VEHICLE HARNESS 9-PIN U 66

61548 67 2 PLUG COVER U 68 60109 FLASHER HD

59224 3 **BULLET RECEPTACLE CONNECTOR** 69

70 61535 2 **HEADLAMP RELAY SPDT**

59223 8 72 CABLE TIE

Parts listed above may be found in the following assembly.

61547 PARTS BAG







Found in Mount Box No. 61815

61536 4 CABLE TIE - LONG 90 56080 DASH BRACKET

Parts listed above may be found in the following assembly.

61818 1 BOLT BAG ASSY (61815)

Abbreviations								
ASSY	Assembly	SL	Slotted					
BP	Black Phosphate	SP	Spring					
BPO	Black Phosphate & Oil	SPDT	Single Pole Double Throv					
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.