



WESTERN PRODUCTS
7777 NORTH 73RD STREET
P.O. BOX 23045
MILWAUKEE, WISCONSIN 53223

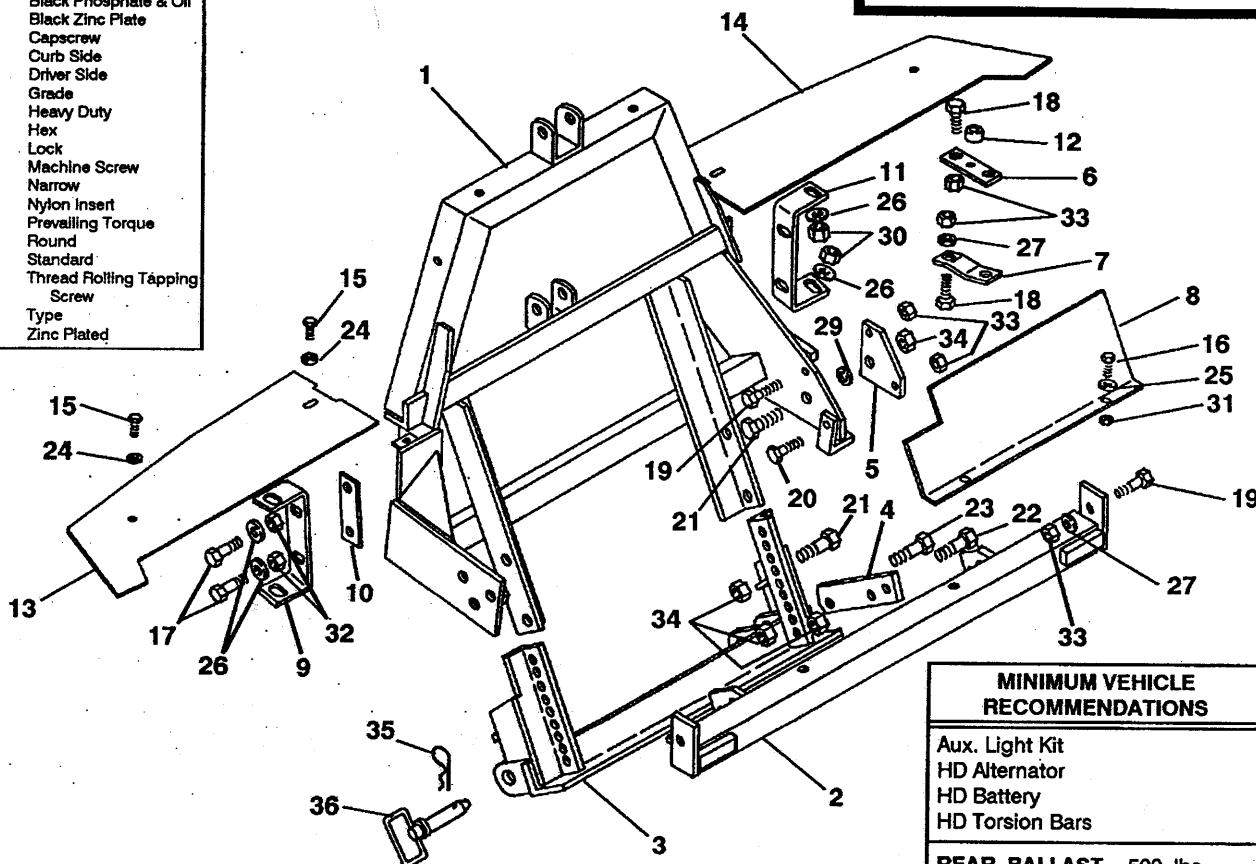


A DIVISION OF DOUGLAS DYNAMICS, INC.

Box No. 61075
Model No. 1540
Chevrolet & GMC
1988 and Later
Light Truck 4x4
November 7, 1990

PARTS DIAGRAM & LIST

Abbreviations	
BP	Black Phosphate
BPO	Black Phosphate & Oil
BZP	Black Zinc Plate
CS	Capscrew
CU	Curb Side
DR	Driver Side
G	Grade
HD	Heavy Duty
HX	Hex
LK	Lock
MS	Machine Screw
NAR	Narrow
NYIS	Nylon Insert
PT	Prevailing Torque
RD	Round
STD	Standard
TRTS	Thread Rolling Tapping Screw
TY	Type
ZP	Zinc Plated



MINIMUM VEHICLE RECOMMENDATIONS

Aux. Light Kit
HD Alternator
HD Battery
HD Torsion Bars

REAR BALLAST -- 500 lbs.
when blade is attached.
WEIGHTS MUST BE SECURED.

ITEM	PART NO.	QUAN.	DESCRIPTION
1	61076	1	LIFT FRAME 1540
2	60573	1	THRUST FRAME
3	60809	1	SPREADER
4	60661	2	THRUST BAR
5	60574	1	CLAMP PLATE
6	60928	2	UPPER BRACE ARM
7	60927	2	LOWER BRACE ARM
8	60810	1	SPLASH GUARD
9	60929	1	BUMPER BRACKET DR
10	61073	1	SPACER
11	60930	1	BUMPER BRACKET CU
12	60934	2	STAND OFF-MIDLAND PLASTIC #03
13	60917	1	PLASTIC SHIELD DR
14	60918	1	PLASTIC SHIELD CU
15	93164	4	1/4-20X1 HX TRTS TY TT BPO
16	90039	2	3/8-16X1 HX CS G5 ZP
17	90067	4	7/16-14X1-1/2 HX CS G5 ZP
18	90099	4	1/2-13X1-1/4 HX CS G5 ZP
19	90100	3	1/2-13X1-1/2 HX CS G5 ZP
20	90102	1	1/2-13X2 HX CS G5 ZP

ITEM	PART NO.	QTY.	DESCRIPTION
21	90128	3	5/8-11X1-3/4 HX CS G5 ZP
22	90129	2	5/8-11X2 HX CS G5 ZP
23	90130	2	5/8-11X2-1/4 HX CS G5 ZP
24	91100	4	1/4 PLAIN WASHER TY A STD BP
25	91103	2	3/8 PLAIN WASHER TY A STD ZP
26	91104	8	7/16 PLAIN WASHER TY A STD ZP
27	91105	4	1/2 PLAIN WASHER TY A STD ZP
29	91214	1	WASHER - SPECIAL
30	95184	4	M12X1.75 PT HX LK NUT NYIS
31	91333	2	3/8-16 PT HX LK NUT NYIS ZP
32	91334	4	7/16-14 PT HX LK NUT NYIS ZP
33	91335	8	1/2-13 PT HX LK NUT NYIS ZP
34	91337	7	5/8-11 PT HX LK NUT NYIS ZP
35	91965K	2	HAIRPIN COTTER - 5/32"
36	93028K	2	HITCH PIN 1" x 3-1/2"

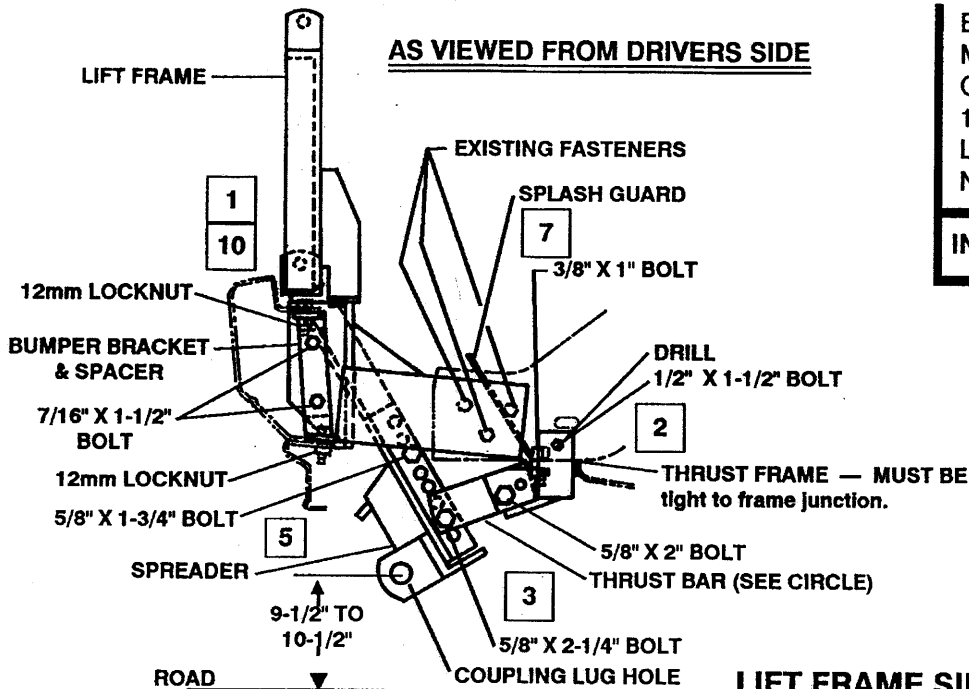
PARTS NOT SHOWN

55930	1	BATTERY CABLE ADAPTER
90308	2	#10-24X3/4 RD MS BZP
91098	2	#10 PLAIN WASHER TY B NAR ZP
91401	2	#10-24 HX NUT ZP

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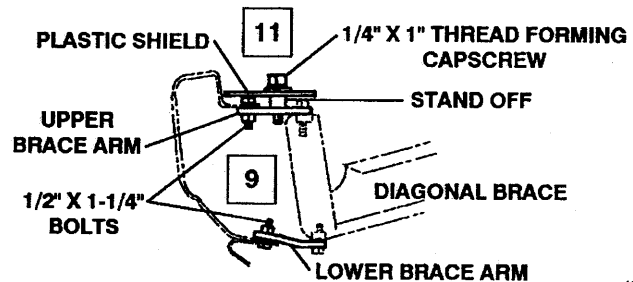
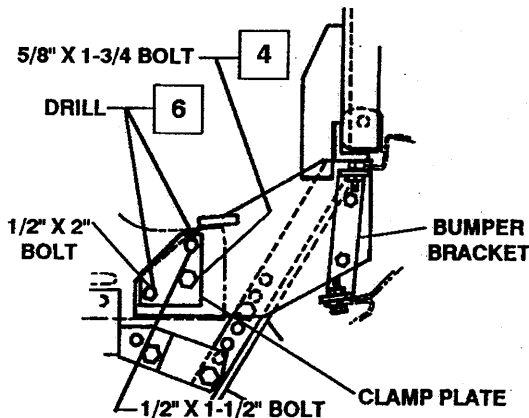
INSTALLATION INSTRUCTIONS

NOTE: DIRECT HYDRA-TURN® HOSES AND FITTINGS AWAY FROM STOPS AND PINCH POINTS.



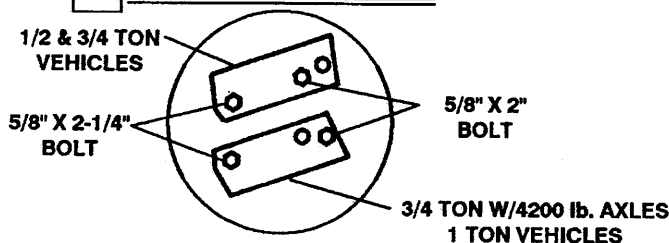
NOTE
LIFT FRAME SIDE PLATE ATTACHMENT
DRIVER SIDE – INSIDE OF FRAME
CURB SIDE – TO INBOARD SURFACE OF FRAME

AS VIEWED FROM CURB SIDE



17028

3 THRUST ARM POSITION



Recommended Fastener Torque Chart (Ft.-Lbs.)				
Size	SAE Grade 2	SAE Grade 5	SAE Grade 8	
1/4-20	6	9	13	
5/16-18	11	18	28	
3/8-16	19	31	46	
3/8-24	24	48	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.-Lbs.)				
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 lift-frame fasteners except those noted in the instruction.				

IMPORTANT: Read instructions before assembling. Bolts should be finger tight until the installation is completed. Preventive maintenance can prevent accidents. Use standard methods and practices when attaching snowplow including wearing safety glasses during drilling.

1. Remove bumper with brackets. (**NOTE:** Loosen diagonal braces to clear body mounts.) Remove brackets and diagonal braces from bumper. Remove plastic splash shield. Retain shield, driver side bumper bracket, shim and fasteners and replace whenever Lift-Mount is removed from vehicle.
2. Locate Thrust Frame into junction of frame crossmember and side rail. **NOTE:** Thrust Frame **MUST BE** tight to junction. Temporarily secure with clamps. Use end tab holes to drill 1/2" holes thru vehicle frame. Secure with 1/2" x 1-1/2" bolts, flat washers to frame and locknuts.

Continued on Page 3

Form No. 13508

3. Place Thrust Bars to inboard sides of the Thrust Frame bars per positions shown in circle, page 2. Attach with 5/8" x 2" bolts and locknuts.
4. Install Lift Frame to frame end (See Note in diagram, page 2). Driver side - secure with 3 existing 14 mm bumper bracket bolts. On curb side, insert 5/8" x 1-3/4" bolt thru hole in lift side plate. Place 1-1/8" O.D. flat washer on the bolt and into frame hole. Place Clamp Plate inside the frame rail and onto the 5/8" bolt, tightening locknut enough to keep washer in frame hole.
5. Position Spreader between lift hanger angles and Thrust Bars, keeping coupling lug holes 9-1/2" to 10-1/2" from road. Secure using 5/8" x 1-3/4" bolts and locknuts in upper holes and 5/8" x 2-1/4" bolts and locknuts thru Thrust Bars.
6. With the angle clip tight underneath frame, use hole in angle clip as a template to drill 1/2" hole thru vehicle frame rotating Clamp Plate to proximity of drill breakthrough. Secure with 1/2" x 2" bolt and locknut. Drill upper hole in side plate and secure with 1/2" x 1-1/2" bolt and locknut.

TIGHTEN ALL BOLTS TO CORRESPONDING TORQUE CHART VALUES.

7. Secure furnished Splash Guard to top of Thrust Frame cross angle using 3/8" x 1" bolts, flat washers to guard and locknuts.
8. Replace curb side bumper bracket, serrated shim and secure with existing fasteners. Assemble furnished Bumper Brackets to outside of lift side plates (spacer to driver side) using 7/16" x 1-1/2" bolts, flat washers to slots and locknuts. (NOTE: top legs of brackets to be parallel to lift center angle.)
9. Assemble straight Upper and offset Lower Brace Arms to ends of diagonal braces with existing fasteners. Replace diagonal braces to body mounts and secure with existing fasteners.
10. Attach bumper to Bumper Brackets with existing 12mm bolts and furnished 7/16" flat washers to bracket slots and 12mm locknuts. Fasten brace arms to bumper with 1/2" x 1-1/4" bolts, flat washers to slots and locknuts. Position bumper and tighten all fasteners.
11. Install Plastic Shields between grille and bumper, textured side up. Drill 7/32" hole into curb side bumper bracket through shield slots. Place plastic Stand Offs to outboard brace arms. Fasten with 1/4" x 1" thread forming screws and black flat washers.

NOTE: * Remove the Air Dam if it interferes with the A-Frame before it engages the stops.

* Colored fasteners furnished in this box are Metric.

After completion of plow installation, the torsion bar suspension may be adjusted to maintain the 9-1/2" to 10-1/2" coupling lug height. Alternate driver and curb side adjustment for uniform height change. After each series of adjustments, bounce vehicle three times to flex suspension prior to measuring.

HYDRAULICS: Mount Hydraulic System per instructions. ISARMATIC® MOTOR GROUND CABLE MUST BE GROUNDED TO A CAPSCREW ON THE ENGINE.

LIGHT KIT ASSEMBLY - Do NOT change flasher. FOR DUAL TYPE 2B HEADLAMPS - Use Box No. 60740 Headlamp Kit - 4 Wire and Box No. 60745 Harness Bracket Kit - 2B/2D. FOR 1988 & 1989 QUAD TYPE LF & UF HEADLAMPS - Use Box No. 60740 Headlamp Kit - 4 Wire with Box No. 60780 Harness Bracket Kit - LF & UF. FOR 1990 & LATER QUAD COMPOSITE TYPE HB3/HB4 HEADLAMPS - Use Box No. 60740 Headlamp Kit - 4 Wire and Box No 61315 Harness Bracket Kit - HB3/HB4.

IIIa CONTROL AND DASH BRACKET INSTALLATION INSTRUCTIONS, SEE PAGE 4

SPECIAL INSTRUCTIONS

Chevrolet and GMC
Light Trucks

ENGINE OVERHEATING

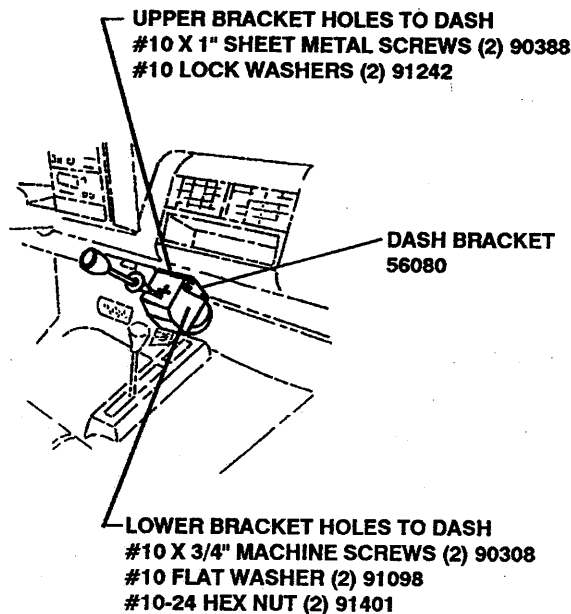
In the event vehicle engine overheating occurs while traveling with the blade attached, the CLUTCH FAN ASSEMBLY should be checked by a General Motors Dealer's Service Department per Chevrolet Service Bulletin 6B.

HAZARD WARNING CIRCUIT

Snowplow auxiliary Park/Turn Hazard Lights can overload the vehicle electrical circuit when Hazard Lights flash for extended periods or when foot brake is activated with Hazard Lights flashing.

GM recommends that a light harness and relays be installed for auxiliary snowplow lighting. See your GM dealer for service bulletin # 90-8A-20. Western also offers a Directional Harness Kit, see Service Bulletin SP 619.

INSTALLATION INSTRUCTIONS
FOR – IIIa CONTROL
TO VEHICLE INSTRUMENT PANEL
CHEVROLET & GMC



1. Remove the center (air vent) section of the dash, located between the radio/climate control and the glove compartment. Pry out at the bottom, then press in at the top while pulling down and out at the bottom. Disconnect any electrical equipment attached to the panel.
2. Secure the dash bracket to the IIIa Control using four (4) No. 8 x 5/8" hex head screws.
3. Locate IIIa Control to the right of the ash tray, and up to the bevel on the flat recessed surface. The bracket should fit fairly flat against the surface of the dash. Verify that IIIa Control lever will clear vehicle components in all positions and for adequate drill clearance (look into opening, to locate ribs) before drilling holes.
4. Mark this location.
5. Remove the bracket from the IIIa Control. Place the bracket in the selected location and mark all four (4) holes.
6. Drill 7/32" holes in the dash for the lower two holes, and 1/8" for the upper two holes, to align to the holes in the bracket. Secure using No. 10 x 3/4" machine screws, flat washers, and nuts (furnished in this carton) in the lower holes, and No. 10 x 1" sheet metal screws and lock washers (furnished in hydraulics carton) in the upper holes.
7. Place IIIa Control into bracket and fasten in desired position.
8. Replace the dash section.

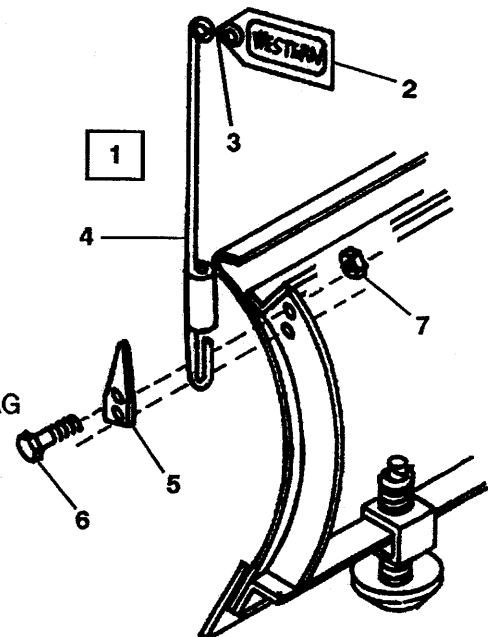
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INSTALLATION INSTRUCTIONS
FOR 59700 BLADE GUIDE ASSEMBLY

Insert pointed end of clamp into coil of Blade Guide Rod. Attach a Blade Guide Rod to each outer rib using 5/16" x 1" capscrews and locknuts as shown in diagram.

PARTS LIST
59700 – BLADE GUIDE ASSEMBLY

Item	Part No.	Quan.	Description
1	59697	2	BLADE GUIDE ROD, S-HOOK & FLAG
2	59694K	1	BLADE GUIDE FLAG
3	59696	1	S-HOOK
4	59691	1	BLADE GUIDE ROD
5	59946	2	CLAMP
6	90020	4	5/16-18X1 HX CS G2 ZP
7	91332	4	5/16-18 PT HX LK NUT NYIS ZP



13009-8908

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WESTERN® ISARMATIC® Hydra-Turn® Roll-Action™ PRO-GUARD™

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