

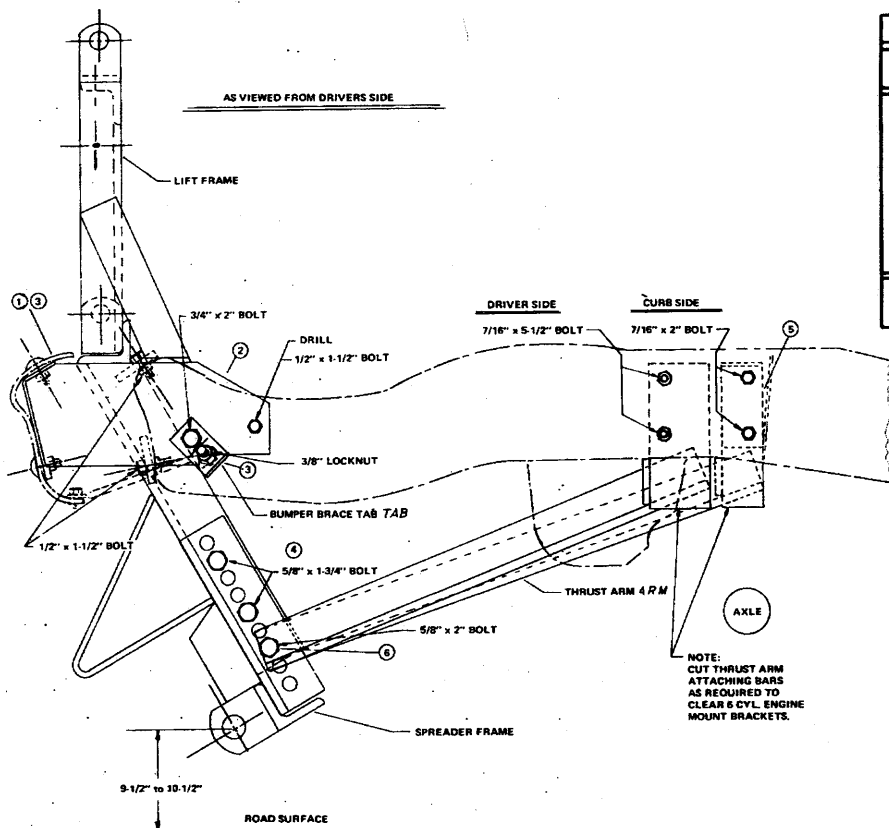


WESTERN PRODUCTS
7777 NORTH 73RD STREET
P.O. BOX 23045
MILWAUKEE, WISCONSIN 53223

dd A DIVISION OF DOUGLAS DYNAMICS, INC.

Box No. 59669
Model No. 1370
Ford F-250 4 x 4
Front Frame Lift-Mount
1977½ and Later

INSTALLATION INSTRUCTIONS



RECOMMENDED FASTENER TORQUE CHART				
SIZE	TORQUE IN FOOT POUNDS			
	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	

These torque values apply to lift-mount fasteners except those noted in the instructions where motion is desired.

IMPORTANT: Read instructions before assembling. Bolts should be finger tight until the installation is complete to allow sufficient adjustment for aligning holes and locating parts to vehicle frame. Preventive maintenance can prevent accidents. Regularly inspect all components and repair or replace any worn, loose or damaged parts immediately. Remember to use standard methods and practices when attaching snowplow including wearing safety glasses during drilling. Install snowplow as follows:

LIFT ASSEMBLY:

1. Remove the bumper from the vehicle.
2. Attach the lift frame unit using the 3/4" x 2" and 1/2" x 1-1/2" bolts, flatwashers and locknuts. Using the side plate as a guide drill the rear 1/2" hole into the frame. **NOTE:** Place bumper brace clip to 3/4" bolt with tab downward and to the rear as shown. Insert existing 3/8" bolt to tab first.
3. Replace bumper with existing fasteners. Secure brace to tab with 3/8" locknut.

MOUNT ASSEMBLY:

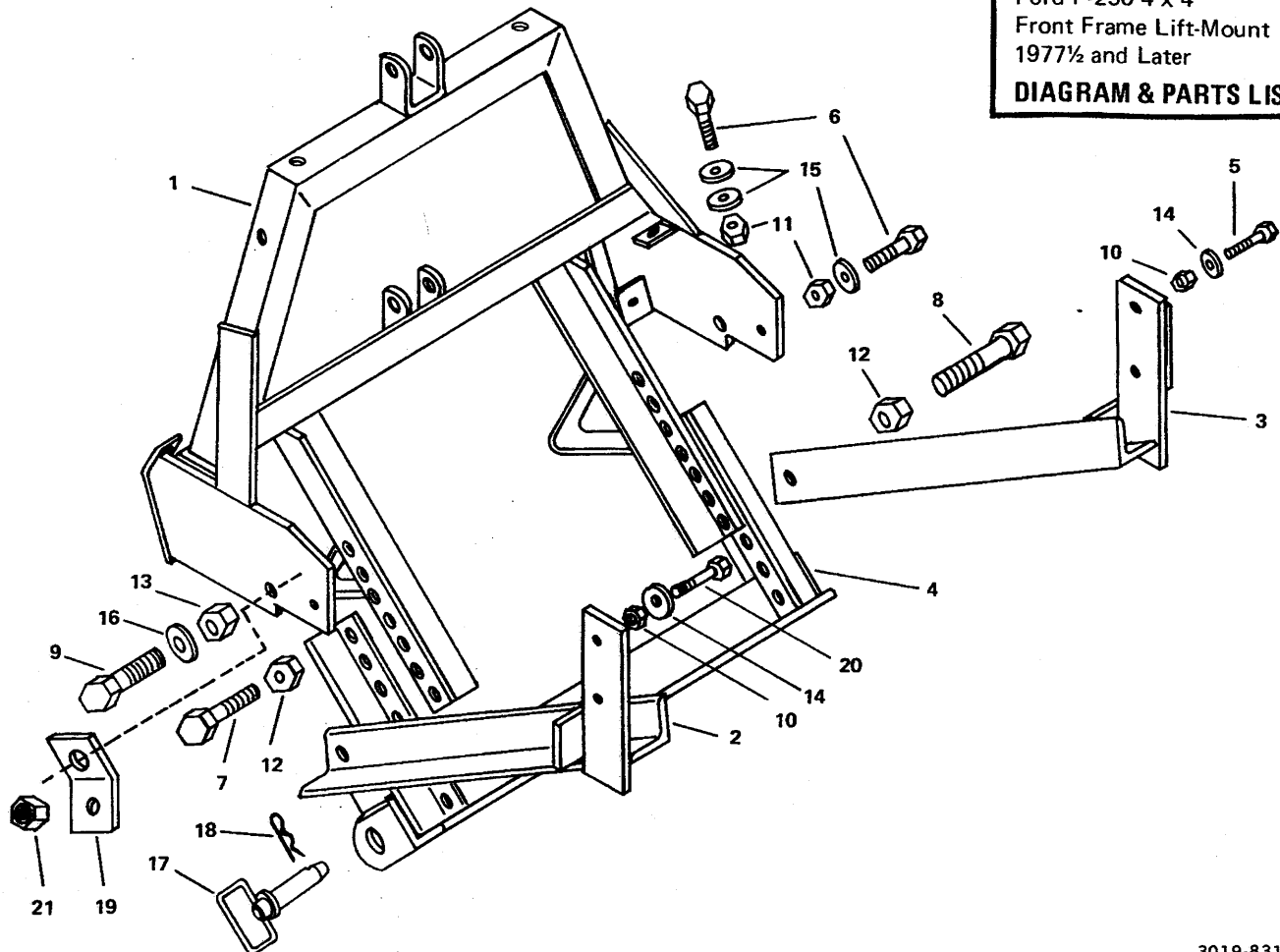
4. Install the spreader frame to the lift with center of coupling lugs between 9-1/2" and 10-1/2" from road. Use 5/8" x 1-3/4" bolts and locknuts in top holes.
5. **Curb side** — remove the two forward engine mount bolts. Secure thrust arm inside of frame as shown, using furnished 7/16" x 2" bolts, flatwashers and locknuts. **Driver's side** — align thrust arm to two holes ahead of V-8 engine mount bracket as shown above. Secure with 7/16" x 5-1/2" bolts, flatwashers, and locknuts on outside of frame.
6. Align front of thrust arm to lower hole in lift angles and fasten thrust arm, lift angle and spreader frame together using 5/8" x 2" bolts and locknuts.

TIGHTEN ALL BOLTS TO CORRESPONDING TORQUE VALUES NOTED IN FASTENER TORQUE CHART.

HYDRAULICS: Install the Hydraulic System, using the instructions furnished in the Hydraulic Carton.

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DIAGRAM & PARTS LIST

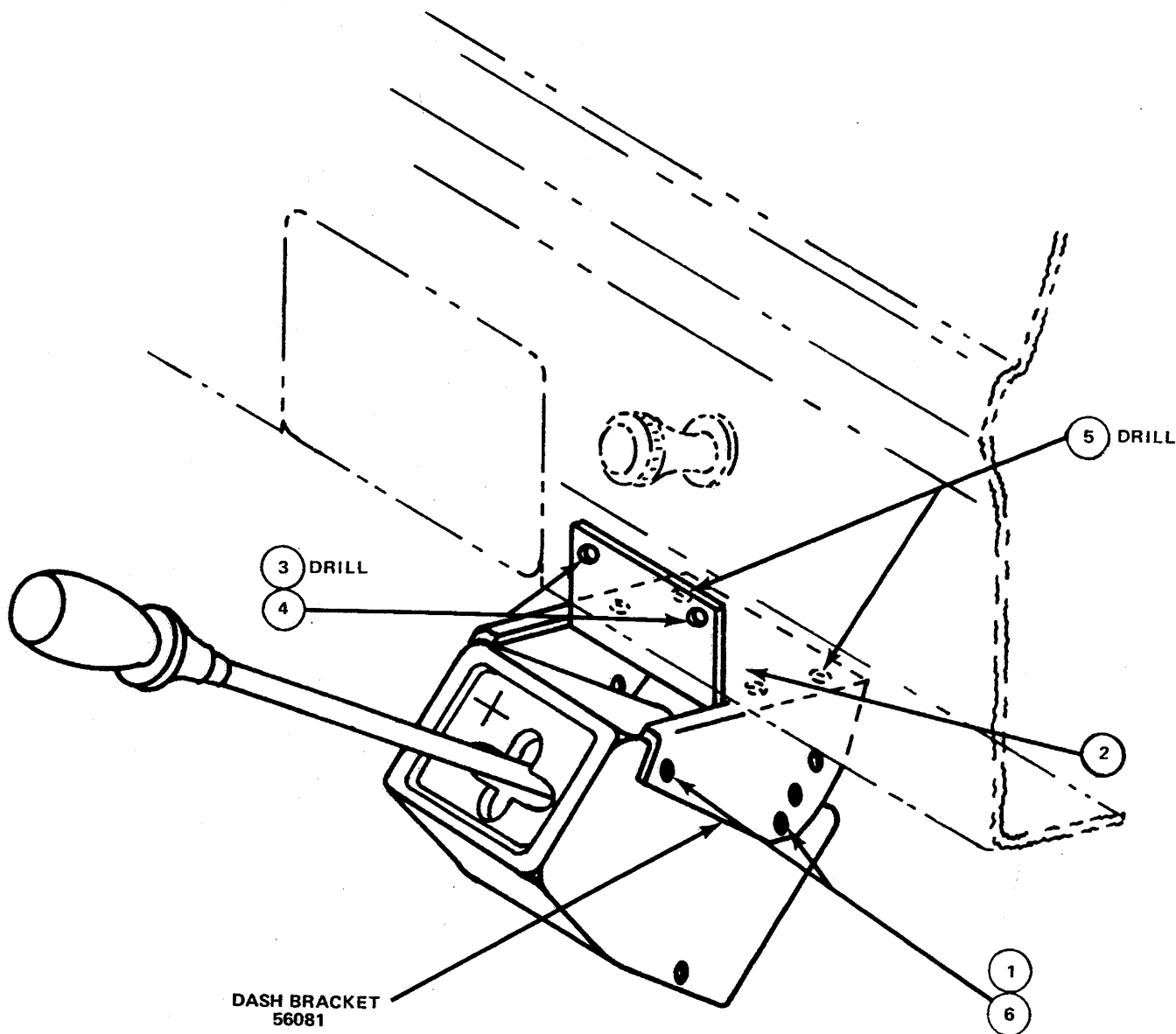


3019-8312
 3020-8312

Item	Part No.	Quan.	Description
1	59670	1	Lift Frame Unit
2	59760	1	Mount Thrust Arm – Driver Side
3	59672	1	Mount Thrust Arm – Curb Side
4	59595	1	Spreader Frame Unit
5	90069	2	Cap Screw – 7/16"-14 x 2" Long – Grade 5
6	90100	6	Cap Screw – 1/2"-13 x 1-1/2" Long – Grade 5
7	90128	4	Cap Screw – 5/8"-11 x 1-3/4" Long – Grade 5
8	90129	2	Cap Screw – 5/8"-11 x 2" Long – Grade 5
9	90154	2	Cap Screw – 3/4"-10 x 2" Long – Grade 5
10	91334	4	Locknut – 7/16"-14 – Nylon Insert Type
11	91335	6	Locknut – 1/2"-13 – Nylon Insert Type
12	91337	6	Locknut – 5/8"-11 – Nylon Insert Type
13	91338	2	Locknut – 3/4"-10 – Nylon Insert Type
14	91138	4	Flat Washer – 7/16" SAE
15		10	Flat Washer – 1/2" Std.
16		2	Flat Washer – 3/4" Std.
17	93028	2	Hitch Pin – 1" x 3-1/2" Long
18	91965	2	Hairpin Cotter – 5/32" x 2-15/16" O/A Length
19	59759	2	Clip – Bumper Brace
20	90078	2	Cap Screw – 7/16"-14 x 5-1/2" Long – Grade 5
21	91333	2	Locknut – 3/8"-16 – Nylon Insert Type

NOTE: Only those items indicated with a **Part Number** are available for Service.

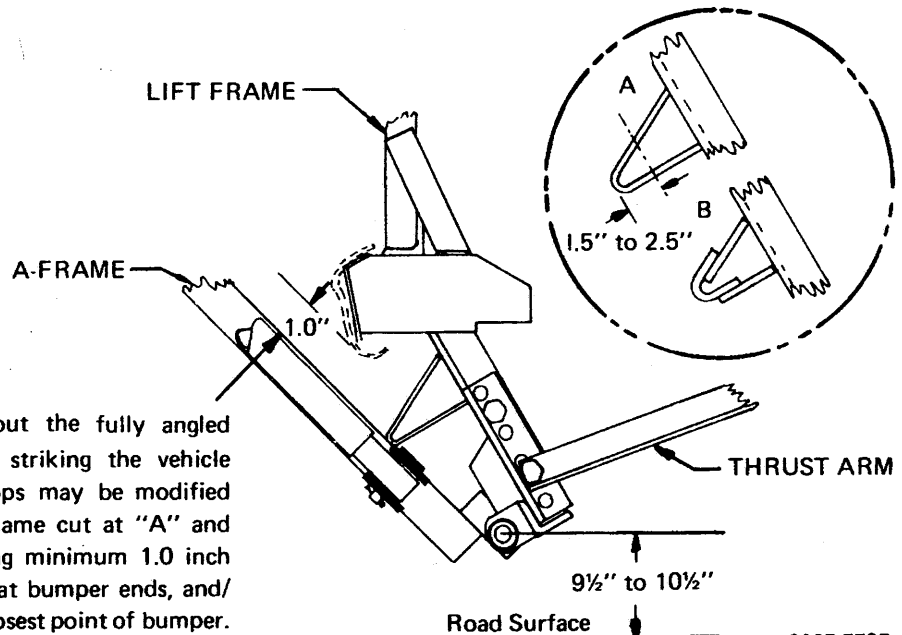
**INSTALLATION INSTRUCTIONS
FOR - IIIa CONTROL
TO VEHICLE INSTRUMENT PANEL
FORD**



1. Secure dash bracket to the IIIa Control using 4-No. 8 x 5/8" long hex head screws.
2. Locate IIIa Control to the right of the ash tray or wherever is most convenient. The lower half of the bracket should fit flat against the bottom flange of the dash. Verify that IIIa Control lever will clear vehicle components in all positions and for adequate drill clearance before drilling holes.
3. Mark and drill two 1/8" holes in the dash to align to the top holes in the bracket.
4. Remove the bracket from the IIIa Control and loosely fasten it to the dash using 2-No. 10 sheet metal screws and lock washers.
5. Mark and drill two holes into the bottom flange of the dash to align to the holes in the bracket. Secure using No. 10 sheet metal screws and lock washers. Tighten all four screws securely.
6. Place IIIa Control into bracket and fasten in desired position.

A-FRAME STOP MODIFICATION INSTRUCTIONS

With snowplows mounted to vehicles having small tire size options, the blade lift may be less than desirable. If this condition exists on any installation, the height of blade lift can be increased by cutting and rewelding the A-frame stops on the mount as shown in the sketch below.



To gain max. lift without the fully angled blade (or the A-frame) striking the vehicle bumper, the A-frame stops may be modified as shown in the inset. Flame cut at "A" and reweld at "B" maintaining minimum 1.0 inch clearance between blade at bumper ends, and/or between A-frame and closest point of bumper.

3027-7707

INSTALLATION INSTRUCTIONS FOR 59700 BLADE GUIDE ASSEMBLY

The following instructions simply outline the attachment of this blade guide assembly.

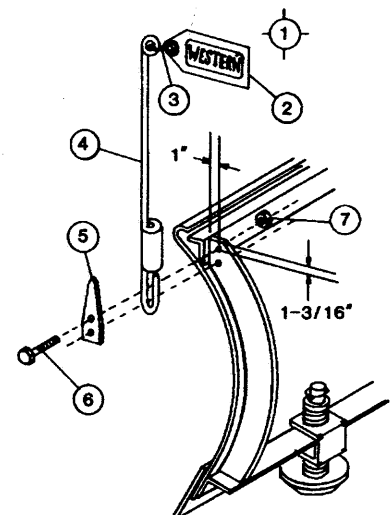
- Step 1. Lower blade to ground level.
- Step 2. If hole is not pre-drilled, drill one 11/32" hole, 1-3/16" down and 1" out on the outside rib of blade. See diagram below.
- Step 3. Insert pointed end of clamp into coil of guide. Attach guide to rib using top hole of clamp. Secure assembly using supplied 5/16" x 1" bolt and locknut. Tighten until guide will stand alone perpendicular to road surface.
- Step 4. If hole is not pre-drilled, use lower hole of clamp as locator, drill bottom hole 11/32".
- Step 5. Bolt lower hole in place. Finish securing top bolt.
- Step 6. Attach other side following above steps.

Pictorial view supplied below. Remember to use standard methods and practices in attaching blade guides including wearing safety glasses during drilling.

PARTS LIST

59700 - BLADE GUIDE ASSEMBLY

ITEM	PART NO.	QUAN.	DESCRIPTION
1	59697	2	Blade Guide Rod, S-Hook & Flag
2	59694	1	Flag
3	59696	1	S-Hook
4	59691	1	Blade Guide Rod
5	59946	2	Clamp
6		4	Capscrew 5/16 - 18 x 1 Gr 2
7		4	Locknut 5/16 - 18 Nylon Insert



3009-7911

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