




6223

REF#	PART#	QTY	DESCRIPTION * PART OF 6909 BOLT BAG
1	6902	1	PUSHPLATE - PASSENGER'S SIDE
2	6901	1	PUSHPLATE - DRIVER'S SIDE
3	A5952	1	PUSHBEAM
4	6879	2	HEADGEAR BRACE
5	3	1	CONNECTING PIN RELEASE
6	6920	2	CONNECTING PIN ASSEMBLY
7	6815	2	CONNECTING PIN W/HANDLE
8	4289	2	* 3/4 X 1-7/8 MACHINE PIN
9	90658	2	* 5/32 X 1-1/4 COTTER PIN
10	90601	2	* 1/4 X 1-1/2 COTTER PIN
11	821	2	* SPRING
12	90012	2	* 3/16 X 1-3/4 COTTER PIN
13	6049	4	* SQUARE WASHER
14	90218	4	* 1/2 X 2 (NC) GR.8 CAPSCREW
15	90210	10	* 1/2 X 1-1/2 (NC) GR.5 CAPSCREW
16	90319	12	* 1/2 FLATWASHER
17	90572	4	* 1/2 GR.8 FLATWASHER
18	90364	10	* 1/2 LOCKWASHER
19	90593	4	* 1/2 (NC) GR.C LOCKNUT
20	90337	10	* 1/2 (NC) NUT
21	5005	2	* 5/8 X 1-1/2 (NC) DRILLED CAPSCREW
22	90244	4	* 5/8 X 1-1/2 (NC) GR.5 CAPSCREW
23	90247	6	* 5/8 X 2 (NC) GR.5 CAPSCREW
24	90366	8	* 5/8 LOCKWASHER
25	90343	8	* 5/8 (NC) NUT
26	90446	2	* 5/8 (NC) SLOTTED NUT
27	90286	2	* 3/4 X 2 (NC) GR.5 CAPSCREW
28	90325	2	* 3/4 FLAT WASHER
29	90367	2	* 3/4 LOCKWASHER
30	90345	2	* 3/4 (NC) NUT
31	6037	2	5/8 (NC) NUT W/HANDLE
	A6057	1	DASH BRACKET BAG

FASTENER TORQUE (FT-LB)			
DIAMETER- THREADS PER INCH	GRADE DESIGNATION		
	 GRADE 2	 GRADE 5	 GRADE 8
1/4 - 20	6	9	13
5/16 - 18	11	18	28
3/8 - 16	19	31	46
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	150	378	591
1 - 8	220	533	893

IMPORTANT NOTICES:

1. FISHER ENGINEERING MAKES THE FOLLOWING RESTRICTIONS FOR THIS KIT IN ACCORDANCE WITH FORD MOTOR COMPANY'S MINIMUM RECOMMENDED VEHICLE EQUIPMENT FOR A SNOWPLOW INSTALLATION.

PECULIAR ATTACHMENT GROUP AL296 IS DESIGNED ONLY FOR USE ON THE FOLLOWING VEHICLES:

- A. FORD F-SUPER DUTY WITH HEAVY DUTY FRONT SUSPENSION -5000 LB. FRONT GAWR

2. VEHICLE LOADING REQUIREMENTS.

- A. THE TOTAL VEHICLE CURB WEIGHT MUST NOT EXCEED THE GROSS VEHICLE WEIGHT (GVW) OR CAUSE EITHER THE FRONT OR REAR GROSS AXLE WEIGHT RATING (GAWR) TO BE EXCEEDED. THE GVW AND GAWRS ARE SPECIFIED ON THE SAFETY COMPLIANCE CERTIFICATION LABEL AFFIXED TO THE VEHICLE. THE VEHICLE CURB WEIGHT INCLUDES ALL AFTER MARKET ACCESSORIES, THE SNOW PLOW SYSTEM INCLUDING THE BLADE, THE VEHICLE OCCUPANTS AND THE CARGO.

- B. 1. NO MORE THAN 63 PERCENT OF THE TOTAL VEHICLE CURB WEIGHT SHOULD BE SUPPORTED BY THE FRONT AXLE.

2. IF NECESSARY, WEIGHT SHOULD BE SECURELY ATTACHED TOWARD THE REAR OF THE VEHICLE TO OBTAIN THIS BALANCE FOR PURPOSES OF COMPLYING WITH FEDERAL MOTOR VEHICLE HYDRAULIC BRAKING STANDARDS.

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- A. LIFT VEHICLE USING FLOOR JACK.
 - B. REMOVE AND DISCARD FASTENERS HOLDING SHOCK TOWERS TO FRAME.
 - C. REMOVE BUMPER MOUNTING BRACKETS AND BUMPER FROM VEHICLE FRAME.
 - D. LOCATE THE PUSHPLATES (1&2) ON THE INSIDE OF THE SPRINGS WITH THE REAR ANGLE SECTION LOCATED ON THE OUTSIDE OF THE FRAME.
 - E. ALIGN THE REAR HOLE OF THE PUSHPLATES WITH THE CORRESPONDING HOLE IN THE FRAME AND FASTEN WITH 3/4 X 2 (NC) GR.5 CAPSCREWS (27), FLATWASHERS (28) LOCKWASHERS (29) AND (NC) NUTS (30). DO NOT FULLY TIGHTEN FASTENERS AT THIS TIME.
 - F. INSERT A 5/8 X 1-1/2 GR. 5 CAPSCREW(22) OUT THROUGH THE TOP HOLE OF THE PUSHPLATE HANGER ON BOTH PUSHPLATES(1) AND (2). SWING FRONT OF PUSHPLATES UP UNTIL HANGERS CONTACT END OF FRAME. ALIGN BOTTOM HOLES AND INSERT 5/8 X 2 (NC) GR.5 CAPSCREWS(23) THROUGH THE LOWER TWO HOLES IN EACH HANGER AND THE FRAME.

NOTE: IT MAY BE NECESSARY TO TIGHTEN FASTENERS IN LOWEST HOLES SLIGHTLY TO BRING UPPER HOLES INTO ALIGNMENT. THESE HOLES MAY ALSO HAVE TO BE DRILLED 11/16" IN NEWER MODELS. REAM OUTSIDE FASTENER HOLES 17/32" OF NECESSARY. FASTEN EACH CAPSCREW WITH A SQUARE

WASHER(13), LOCKWASHER (24), AND NUT (25). INSTALL TWO 1/2 X 1-1/2 (NC) GR.5 CAPSCREWS (15) WITH FLATWASHERS (16) OUT THROUGH THE SIDE OF THE FRAME AND THE SIDE PLATES ON THE HANGERS. FASTEN WITH LOCKWASHERS (18), AND NUTS(20).

- G. FASTEN MIDDLE TAB IN PUSHPLATES TO HOLES IN FRAME WITH TWO 5/8 X 2 GR. 5 CAPSCREWS (23) AND TWO 5/8 (NC) NUTS W/HANDLE (31).

NOTE: HANDLES NEED TO BE BENT (APPROXIMATELY 30 DEGREES) TO AID IN PLACEMENT OF NUTS THROUGH CHANNEL IN FRAME. DO NOT TIGHTEN FASTENERS.

- H. BEFORE REATTACHING SHOCK TOWERS REAM CORRESPONDING HOLES IN FRAME AND PUSHPLATES TO 17/32". REATTACH SHOCK TOWERS TO THE OUTSIDE OF THE PUSHPLATES AND THE FRAME WITH 1/2 X 2 (NC) GR.8 CAPSCREWS (14). INSERT THE CAPSCREWS IN THROUGH THE SHOCK TOWERS AND FRAME. FASTEN CAPSCREWS WITH GR 8 FLATWASHERS (17) AND 1/2" GR C LOCKNUTS (19). TORQUE THESE FASTENERS TO 115 FOOT POUNDS WHEN INSTRUCTED TO DO SO IN STEP (M).
- I. ASSEMBLE CONNECTING PINS (6) TO PUSHBEAM (3). FIRST INSERT SPRINGS (11) BETWEEN TWO INNER EARS ON EACH SIDE OF PUSHBEAM. THEN INSERT CONNECTING PINS (7) THROUGH ALL THREE EARS WITH HANDLE OF PIN TOWARDS THE CENTER OF THE BEAM. LEAVING THE HOLE IN THE PIN BETWEEN THE INNER TWO EARS, PULL BACK ON SPRING AND INSTALL COTTER PIN (10).
- J. INSTALL PUSHBEAM BETWEEN PUSHPLATES AND FASTEN WITH 5/8 X 1-1/2 DRILLED CAPSCREWS (21) AND 5/8 SLOTTED NUTS (26).
- K. READJUST MOUNTING BRACKETS ON BUMPER TO FIT OUTSIDE OF SLOTTED HANGER PLATES ON PUSHPLATES. FASTEN BUMPER MOUNTING BRACKETS TO HANGER PLATES WITH FOUR 1/2 X 1-1/2 (NC) GR.5 CAPSCREWS (15) AND FLATWASHERS (16) INSTALLED OUT THROUGH THE HANGER PLATES AND BUMPER MOUNTING BRACKETS. SECURE EACH CAPSCREW WITH ONE FLATWASHER (16), LOCKWASHER (18) AND NUT (20). DO NOT FULLY TIGHTEN FASTENERS AT THIS TIME.
- L. PLACE THE HEADGEAR (NOT SHOWN) ON THE FRONT PUSHPLATE PADS AND SECURE WITH TWO 1/2 X 1-1/2 (NC) GR.5 CAPSCREWS (15), LOCKWASHERS (18) AND NUTS (20) WITH BOLTS FACING UPWARDS.
- M. INSTALL HEADGEAR BRACES (4) TO EACH SIDE OF HEADGEAR AND TO REMAINING HOLES IN PUSHPLATE HANGERS USING FOUR 5/8 X 1-1/2 (NC) GR.5 CAPSCREWS (22), LOCKWASHERS (24) AND (NC) NUTS (25).
- N. BEGIN TIGHTENING ALL FASTENERS. TIGHTEN THE PUSH BEAM BOLTS FIRST AND SECURE THEM WITH 3/16 X 1-3/4 COTTER PINS (12). PLACE A JACK UNDER THE BEAM AND LIFT THE ENTIRE ATTACHMENT ASSEMBLY FIRMLY UP AGAINST THE FRAME. TIGHTEN THE REMAINING FASTENERS WORKING FROM THE HEADGEAR BACK. CHECK ALIGNMENT OF BUMPER BEFORE TIGHTENING BUMPER BOLTS.