

PARTS & INSTALLATION INSTRUCTIONS MEYER SNOW PLOW MOUNTING FOR 1989 THRU 1993 TOYOTA PICKUP AND 1989 AND LATER FORERUNNER 4X4 MODELS

IMPORTANT NOTICE

End user must be given this information prior to delivery of this snow plow.

The equipment you have just purchased should only be used on vehicles equipped with the manufacturer's snow plow preparation packages. Snow plowing without the original snow plow preparation package may damage your vehicle and the added weight to the equipment may impair the operation and control of the vehicle. Snow plowing with a vehicle that the manufacturer does not recommend for that purpose may void your new vehicle warranty. If your vehicle is not originally equipped with the snow plow preparation package, additional parts may be necessary before snow plowing. Owners of these vehicles should consult their dealers before purchase or installation of such parts.

CAUTION: The installation, on any vehicle, of these parts is not a full substitute for the original equipment snow plow preparation package.

WARNING: Lift arm extends beyond bumper of vehicle. To minimize damage from a front-end collision, lift arm should be removed from vehicle when snow plow is removed.

PARTS LIST

Item	Part No.	Qty.	Description
	18074	1	MOUNTING CARTON
1	11495	1	• Clevis Frame
2	11496	1	• Mounting Angle R.H.
3	11497	1	• Mounting Angle L.H.
4	11462	2	• Receiver Tube Caps
5	10514	1	• Lift Arm
6	12978	1	• Trip Springs
7	12984	1	• Pivot Bar
8	13594	1	• A Frame
9	11275	1	LIFT FRAME (Tubular)
	08663	1	• MOUNTING HARDWARE BAG
10	11006	2	•• Hinge Pin
11	11368	2	•• Bracket: Light Extension
12	20095	8	•• Bolt H 1/2-13 x 1-1/2" Gr. 5
13	20144	1	•• Bolt H 5/8-11 x 2-3/4" Gr. 5
14	20146	2	•• Bolt H 5/8-11 x 3-1/4" Gr. 5
15	20307	8	•• Locknut 1/2-13
16	20309	3	•• Locknut 5/8-11
17	20355	12	•• Flatwasher 1/2
18	21984	2	•• Hair Pin Cotter
19	21988	6	•• Bolt M 12mm 1.25 x 30mm
20	22138	2	•• Bolt M 12mm 1.25 x 40mm
21	21991	8	•• Lockwasher 12mm
22	22110	2	•• Bolt M 12mm 1.25 x 110mm
	08511	1	• SNOW PLOW HARDWARE BAG
23	11006	2	•• Hinge Pin
24	21984	2	•• Hair Pin Cotter
25	12150	2	•• Eye Bolts
26	20318	4	•• Nuts, Eslock 5/8-11
27	13598	2	•• Pivot Bolts
28	13591	1	•• King Bolt
29	20150	2	•• Bolts H 5/8-11 x 4-1/2" Gr. 5
30	20309	5	•• Locknuts, 5/8-11
	09916	1	• SNOW PLOW MARKER KIT
31		2	•• Snow Plow Marker Assy.
32		2	•• Clamps
33		2	•• Bolts H 1/4-20 x 1"
34		2	•• Locknuts 1/4-20
35		2	•• Lockwasher 1/4
36	09102	1	MOLDBOARD ASSEMBLY - TM-6.5
37	09100	1	• Cutting Edge - TM-6.5
38	21943	6	• Bolts C 1/2-13 x 1-3/4"
39	20307	6	• Locknuts 1/2-13

Parts indented are included in the carton, bag or assembly under which they are indented. When ordering parts, furnish Part No., Name and Description. Also furnish Vehicle Model and Year, Type of Hydraulic Unit and Moldboard Size.

Meyer Products reserves the right, under its continuing product improvement program, to change construction or design details, specifications and prices without notice or without incurring any obligation.

GENERAL INFORMATION

CAUTION: Always disconnect battery before beginning installation.

DO NOT burn holes or weld vehicle frame. This may cause frame failure.

After first use, retighten all mounting bolt connections to specified torque. All mounting bolt connections to be checked periodically for tightness.

Check contents against the parts list to determine all are correct and included; and also to familiarize yourself with them.

Locknuts are furnished. **DO NOT** tighten bolts and nuts until installation is complete (unless otherwise specified), then be sure to tighten all attaching parts per specified torque chart.

NOTE: It is important that the Meyer Electro-Touch Harness and Meyer Snow Plow Light Harness and all other electrical wires be routed around hot or moving engine parts, and any sharp sheet metal. Protection must be provided to guard against wire damage at these points. All excess or loose wire must be neatly secured using wire ties.

INSTALLATION INSTRUCTIONS

- A. Remove Tow Hooks and Splash Pan. They will not be used. Bumber will remain on vehicle.
- B. Attach Mounting Angles (2 & 3) to vehicle frame using 12mm 1.25 x 40mm Bolt (20), 12mm 1.25 x 30mm Bolt (19), 1/2 Flatwasher (17), and 12mm Lockwasher (21). Leave slightly loose so Mounting Angles (2 & 3) can move.
- C. Attach Clevis Frame (1) to Mounting Angles (2 & 3) using 1/2 x 1-1/2" Bolts (12), Flatwashers (17), and 1/2 Locknuts (15).
- D. Remove the outer suspension bolt and nut from each side of vehicle cross member. Save the nuts for reuse. Attach rear of clevis frame (1) to vehicle cross member using 12mm x 110mm Bolts (22), 12mm Lockwashers (21), and original vehicle nuts.
- E. Tighten all fasteners as shown in torque chart beginning with those securing Mounting Angles (2 & 3) to Clevis Frame (1).

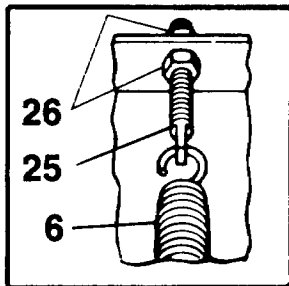
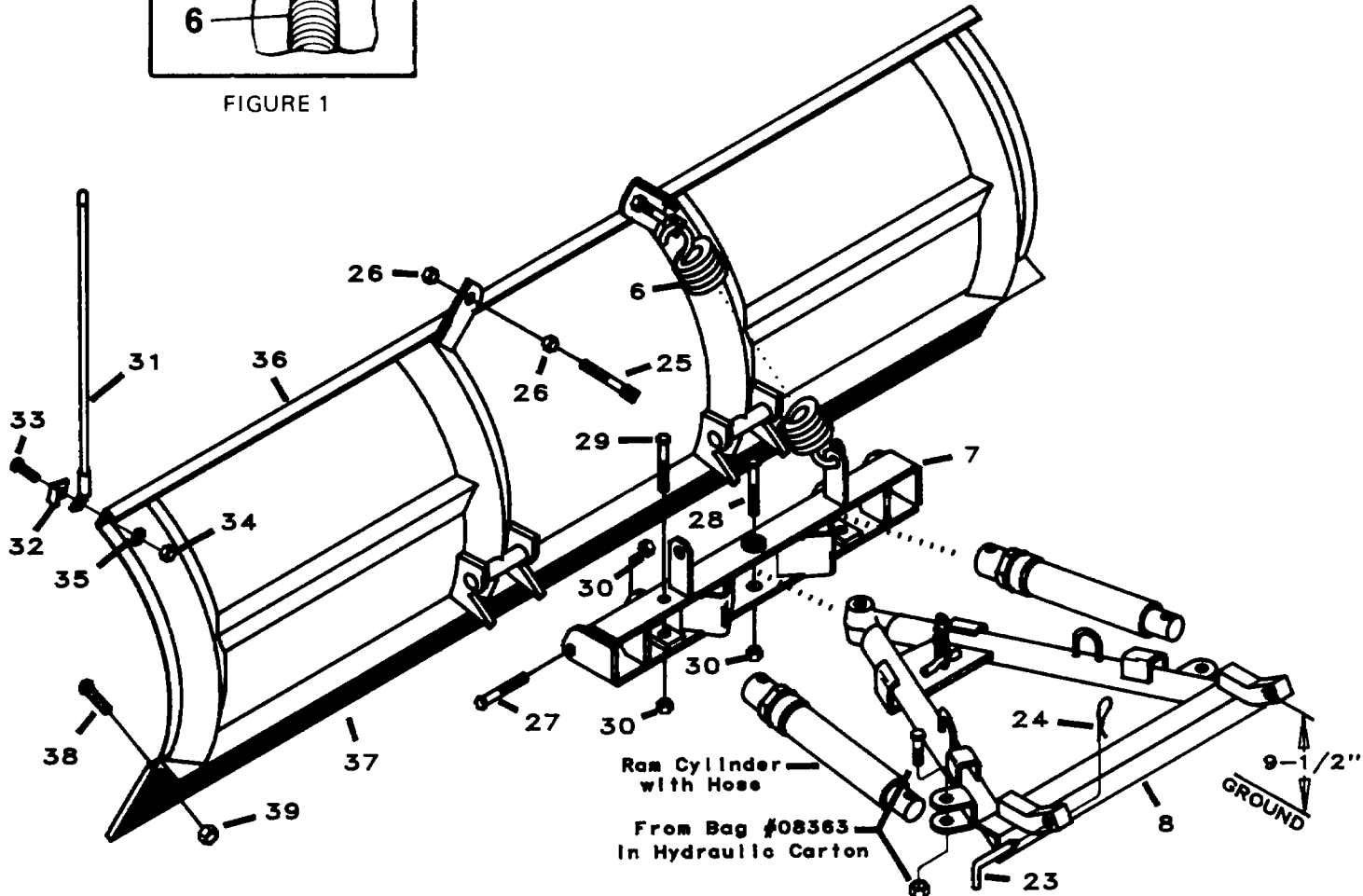


FIGURE 1



- F. Install lift frame (9) into the tubes on the clevis frame (1) using hinge pin (10) and hair pin cotter (18). **Note: Before installing lift frame tubing to clevis frame, liberally coat ends of lift frame with chassis grease/anti-seize lubricant.**
- G. Install lights making certain there is clearance behind the lights for opening the vehicle hood. Lights must be aimed to comply with Federal Regulations.
- H. Install plow light wiring per separate instructions.
- I. Attach lift arm (5) to lift frame (9) using 5/8-11 x 3-1/4" bolt (14) and locknut (16). Mount E-47 unit to lift frame with 5/8-11 x 3-1/4" bolt (14) and locknut (16), and to lift arm (5) using 5/8-11 x 2-3/4" bolt (13) and locknut (16).
- J. Install Electro-Touch wiring system per separate instructions.
- K. Attach pivot bar (7) to moldboard (36) using pivot bolts (27), coated with chassis lubricant, and 5/8" locknut (30).

- L. Attach trip springs (6) to pivot bar (7) and moldboard (36) with eye bolts (25) and locknuts (26). Flat end of eye bolt (25) must be in a vertical position, as shown in Figure 1 to hinge properly when moldboard (36) trips. Proper tension is attained when trip spring (6) coils begin to separate and then tightening top locknut (26) four additional turns. Tighten bottom locknut (26) to secure eye bolt (25) in position. See Figure 1.
- M. Assemble A-frame (8) to pivot bar (7), using king bolt (28) and 5/8" locknut (30). Grease king bolt (28) prior to installation.
- N. Install power angling rams with fittings to A-frame (8) using 5/8" x 3-1/4" bolt and 5/8" locknut (packaged in hardware bag 08363 in Electro-Touch carton). Attach piston end of ram to pivot bar (7) using 5/8" x 4-1/2" bolt (29) and 5/8" locknut (30).
- O. Straighten end of plow markers (31) so they will be vertical after installation. Attach using 1/4" x 1" bolt (33), clamp (32), lockwasher (35), and 1/4" locknut (34).
- P. Secure moldboard-pivot bar-A-Frame assembly to vehicle at clevis frame (1) using hinge pins (23) and hair pin cotters (24). Attach lift chain to lift arm (5) allowing sufficient slack to allow moldboard to follow ground contours.

TORQUE CHART FOOT LBS

Bolt-Nut Size	GR. 2	GR. 5	GR. 8
1/4 - 20	4 - 5		
5/16 - 18	9 - 11		
3/8 - 16	17 - 20	26 - 29	
7/16 - 14		42 - 46	60 - 66
1/2 - 13		64 - 72	90 - 100
5/8 - 11		127 - 141	179 - 198
3/4 - 10		227 - 251	

Note: When the lift frame module (9) is removed from the vehicle, the insides of clevis frame (1) receiver tubes and outside ends of the lift frame should be coated with chassis grease/anti-seize lubricant and the protective receiver tube caps (4) installed over the clevis frame receiver tubes.

Meyer Products assumes no responsibility for installations not made in accordance with these instructions.

