



PARTS & INSTALLATION INSTRUCTIONS
MDII™ and EZ MOUNT PLUS™
SNOW PLOW MOUNTING 17131
1998 -2003 MITSUBISHI / FUSO FG
4x4 MODELS

End user must be given this instruction sheet prior to delivery of this Snow Plow.

SAFETY DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION Indicates an potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
	CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, will result in property damage.

IMPORTANT NOTICE

In conjunction with FMVSS (Federal Motor Vehicle Safety Standards) and OEM (Original Equipment Manufacturer) guidelines, Meyer Products has designed this plow package with the following guidelines:

	Installation of a snowplow may effect your new vehicle warranty. For more information consult your Vehicle Owner's Manual / Vehicle Dealer.
	The vehicle must not be operated when overloaded. In all cases, the loaded vehicle weight, including the entire snowplow system, all aftermarket accessories, driver, passenger, options, nominal fluid levels, and cargo must not exceed the front/rear Gross Axle Weight Rating (GAWR), and total Gross Vehicle Weight Rating (GVWR). These weights ratings are specified on the safety compliance certification label on the driver's side door opening. The use of rear ballast weight may be required to prevent exceeding the front GAWR.

According to the NHTSA (National Highway Traffic Safety Administration) new and untitled vehicles need to be verified by the installer that snowplow and ballast (if needed) do no exceed the front/rear GAWR and total GVWR.

	Read the Meyer Owner's Manual before operating or servicing a snowplow. FOLLOW THESE INSTRUCTIONS EXPLICITLY.
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GENERAL INFORMATION

	SAFETY PRECAUTIONS should be used when Hydraulic Unit is in OPERATION and plow is in a RAISED position. Lower plow to ground when vehicle is PARKED in case of hydraulic failure.
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Check contents against the parts list to determine all are correct and included, and also to familiarize yourself with them.

	Warranty does not apply to a Meyer or Diamond product which has been negligently or improperly assembled or installed.
	CAUTION: To avoid harm to vehicles electrical system always disconnect battery before beginning installation. DO NOT BURN holes or WELD vehicle frame. This may cause frame failure.

OVERHAUL and SERVICE INFORMATION are covered on separate instructions.

Meyer Products and Diamond Equipment 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.

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PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
	17131	1	MOUNTING CARTON
1	80236	1	• Push Arm Passenger Side
2	80235	1	• Push Arm Driver Side
3	19145	1	• L.H.Front Hanger
4	19146	1	• R.H.Front Hanger
5	19151	1	• Rear Brace Weldment
6	19138	1	• Angle
	08777	1	• MOUNTING HARDWARE BAG
7	22079	9	• Bolt H M10 - 1.25 x 35 mm
8	22374	3	• Bolt H M10 - 1.25 x 45 mm
9	22177	12	• M10 - 1.25 Nut
10	22138	4	• Bolt H M12 - 1.25 x 40 mm
11	21989	4	• M12 - 1.25 Nut
12	20353	12	• Flatwasher 3/8"
13	20095	10	• Bolt H 1/2-13 x 1-1/2" Gr.5
14	20096	6	• Bolt H 1/2-13 x 1-3/4" Gr.5
15	20097	2	• Bolt H 1/2-13 x 2" Gr.5
16	20307	18	• Locknut 1/2-13
17	20141	4	• Bolt H 5/8-11 x 2" Gr.5
18	20309	4	• Locknut 5/8-11
19	20357	4	• Flatwasher 5/8"
*	19370	1	Universal Clevis (Part of Plus CLF Carton)
**	11770	1	Universal Clevis (Part of MDII CLF Carton)
15" SECTOR			MEYER
	PART NO.	QTY.	DESCRIPTION
	16516	1	Sector A-Frame Carton
DIAMOND			
	81504	1	Common Attaching Kit
	81026	1	Push Frame

Parts indented are included in the carton, bag or assembly under which they are indented.

IMPORTANT

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

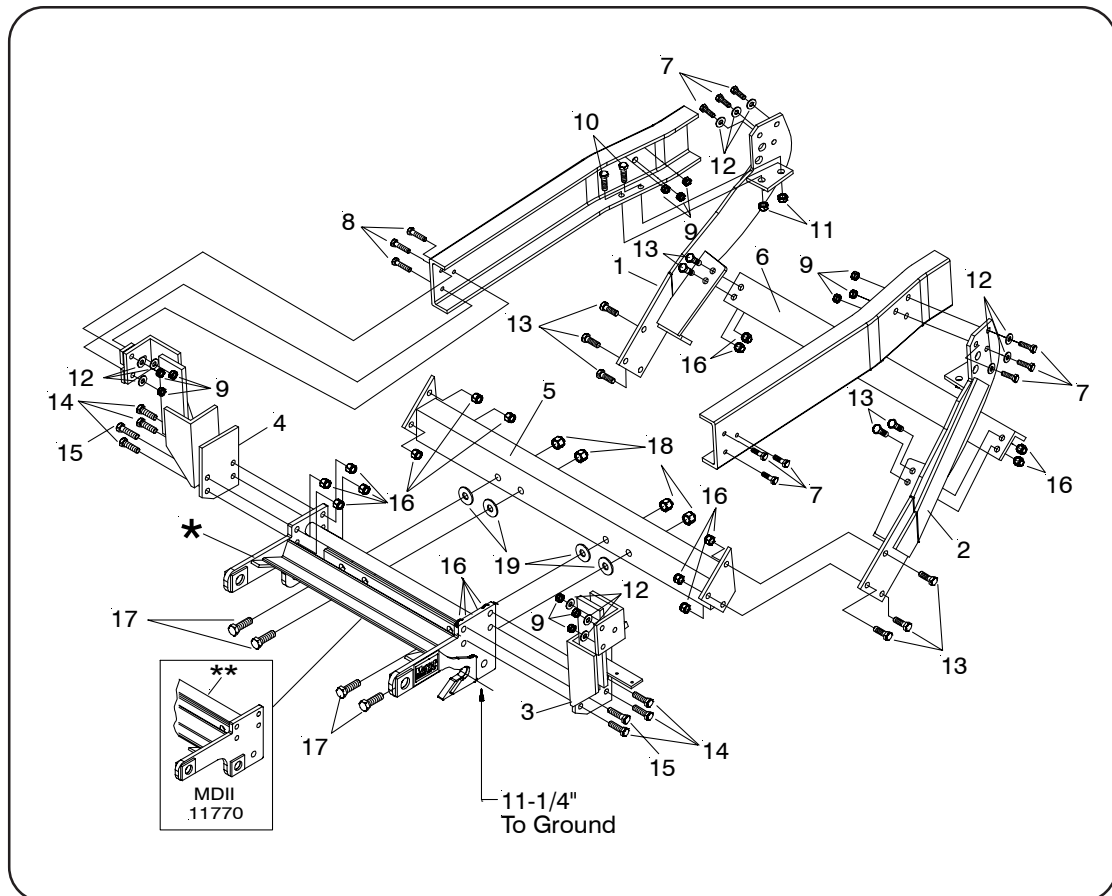
Locknuts are furnished **DO NOT** tighten bolts and nuts until installation is complete (unless otherwise specified), then be sure to tighten all attaching parts per specified torque chart.

TORQUE CHART FOOT

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

NOTE:

THIS MOUNTING CARTON CAN BE USED WITH THE MDII OR EZ MOUNT PLUS CLF CARTONS.



⚠ WARNING

- A ballast weight may be required to prevent front GAWR overloading. If required, ballast must be securely attached at least 24 inches behind the rear axle.

⚠ WARNING

- Front end wheel alignment and headlight aim may require readjustment after installation of equipment, and is the responsibility of the equipment installer. Failure to adjust front wheel alignment may cause premature uneven tire wear. If required, reset to chassis manufacture's specifications found in the Mitsubishi Shop Manual.

Rear ballast is determined by weighing a vehicle's front and rear axles and adding weight behind the rear axle until front axle weight is under or equal to the vehicle specific front GAWR while not exceeding the rear GAWR and GVWR.

Vehicle option packages may vary. If in doubt, it is always a good idea to weigh the vehicle to ensure all weight ratings are not exceeded with plow in the raised position.

INSTALLATION INSTRUCTIONS

- A. FRONT HANGERS:** Remove and discard the three 10mm bolts holding each vehicle bumper bracket to the frame rails. Place the driver's side front hanger (3) and the passenger's side front hanger (4) onto the inside surface of its respective frame rail. Attach using three M10 -1.25 x 35mm Capscrews (7) on the Driver Side and three M10 - 1.25 x 45mm Capscrews (8) on Passenger Side with 3/8" flatwashers (12) through each front hanger, frame rail, and bumper bracket. Fasten using M10 - 1.25 (9) nuts.
- B. DRIVER'S SIDE SIDE MEMBER:** Tilt the vehicle cab forward and assemble a temporary cab prop to hold cab up and also to prevent it from tilting too far forward. Remove and discard the three 10mm bolts holding the original cab prop bracket to the drivers sideframe rail. Place a jack under the drivers side end of the radiator support cross member to hold it against the frame rail. Remove the two 12mm bolts and nuts holding the driver's side end of the radiator support cross member to the frame rail. Discard the 12mm bolts and M12-1.25 nuts. Install the driver's side side member (2) onto the outside of the frame rail with the three small holes in the side member lined up with the three holes in the frame rail that the cab prop bracket bolts were removed from.

Fasten the cab prop bracket and rear vertical section of the side member to the frame rail using three M10 - 1.25 x 35mm capscrews (7) and 3/8" flatwashers (12). Place two M12 - 1.25 x 40mm capscrews (10) down through the holes in the bottom flange of the frame rail, radiator support cross member, and horizontal bolting section of the side member. Fasten using M12 - 1.25 nuts (11). Remove the jack from under the radiator support cross member.

- C. PASSENGER'S SIDE MEMBER:** Place a jack under the passenger's side end of the radiator support cross member to hold it against the frame rail. Remove the two 12mm bolts and nuts holding the passenger's side end of the radiator support cross member to the frame rail. Discard the 12mm bolts and the M12 - 1.25 nuts. Install the passenger's side member (1) onto the outside of the frame rail with the three small holes in the rear section of the side member lined up with the three large holes in the vertical surface of the rail. Fasten using three M10 - 1.25 x 35mm capscrews (7), 3/8" flatwashers (12) and M10 - 1.25 nuts (9). Place two M12 - 1.25 x 40mm capscrews (10) down through the holes in the bottom flange of the frame rail, radiator support cross member, and horizontal bolting section of the side member. Fasten using original equipment M12 - 1.25 nuts (11). Remove the jack from under the radiator support cross member.
- D. ANGLE:** Attach Angle (6) to the Push Arms (1 & 2) using 1/2-13 x 1-1/2" bolt (13) and 1/2" locknut (16).
- E. REAR BRACE:** Attach Rear Brace Weldment (5) to Push Arms (1 & 2) using 1/2-13 x 1-1/2" bolt (13) and 1/2" locknut (16).
- F. CLEVIS:** Attach Clevis (*) to Front Hangers (3 & 4) using 1/2-13 1-3/4" bolt (14), 1/2-13 x 2" bolt (15) and 1/2" locknut (16). Now attach Clevis (*) to Rear Brace Weldment (5) using 5/8 flatwasher (19) as a shim with 5/8-11 x 2" bolt (17) and 5/8" locknut (18).

Note: Before tightening the fasteners, the Clevis Frame (*) should be level with the ground and pushed back as far under the vehicle as possible.

- G.** Tighten all fasteners to their proper torque. Tighten bolts in the same order they were assembled to the vehicle.
- H.** Install remaining snowplow hardware per separate instructions.

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