



## PARTS & INSTALLATION INSTRUCTIONS

### MDII™ and EZ MOUNT PLUS™

### SNOW PLOW MOUNTING

### 2004 & LATER HINO 145, 165 and 185

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.
	<b>DANGER</b> Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	<b>WARNING</b> Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	<b>CAUTION</b> Indicates an potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
	<b>CAUTION</b> 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.
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	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.
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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. <b>FOLLOW THESE INSTRUCTIONS EXPLICITLY.</b>
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#### GENERAL INFORMATION

	<b>SAFETY PRECAUTIONS</b> should be used when <b>Hydraulic Unit is in OPERATION</b> and plow is in a <b>RAISED</b> position. <b>Lower plow to ground when vehicle is PARKED in case of hydraulic failure.</b>
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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.
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	<b>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.</b>
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**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
	17152	1	<b>MOUNTING CARTON</b>
1	19552	1	• Upper Weld Assembly
2	19549	1	• Rear Brace Weldment
	08856	1	• <b>HARDWARE BAG</b>
3	20096	8	•• Bolt 1/2-13 x 1-3/4" Gr. 5
4	20094	4	•• Bolt 1/2-13 x 1-1/4" Gr. 5
5	20141	2	•• Bolt 5/8-11 x 2" Gr. 5
6	20307	12	•• Locknut Esna 1/2-13
7	20309	2	•• Locknut Esna 5/8-11
8	20357	6	•• Flatwasher 5/8
*	19370	1	<b>Universal Clevis (Part of Plus CLF Carton)</b>
**	19970	1	<b>Universal Clevis (Part of MDII CLF Carton)</b>
	15" SAF		<b>MEYER</b>
	PART NO.	QTY.	DESCRIPTION
	16516	1	<b>Sector A-Frame Carton</b>

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.

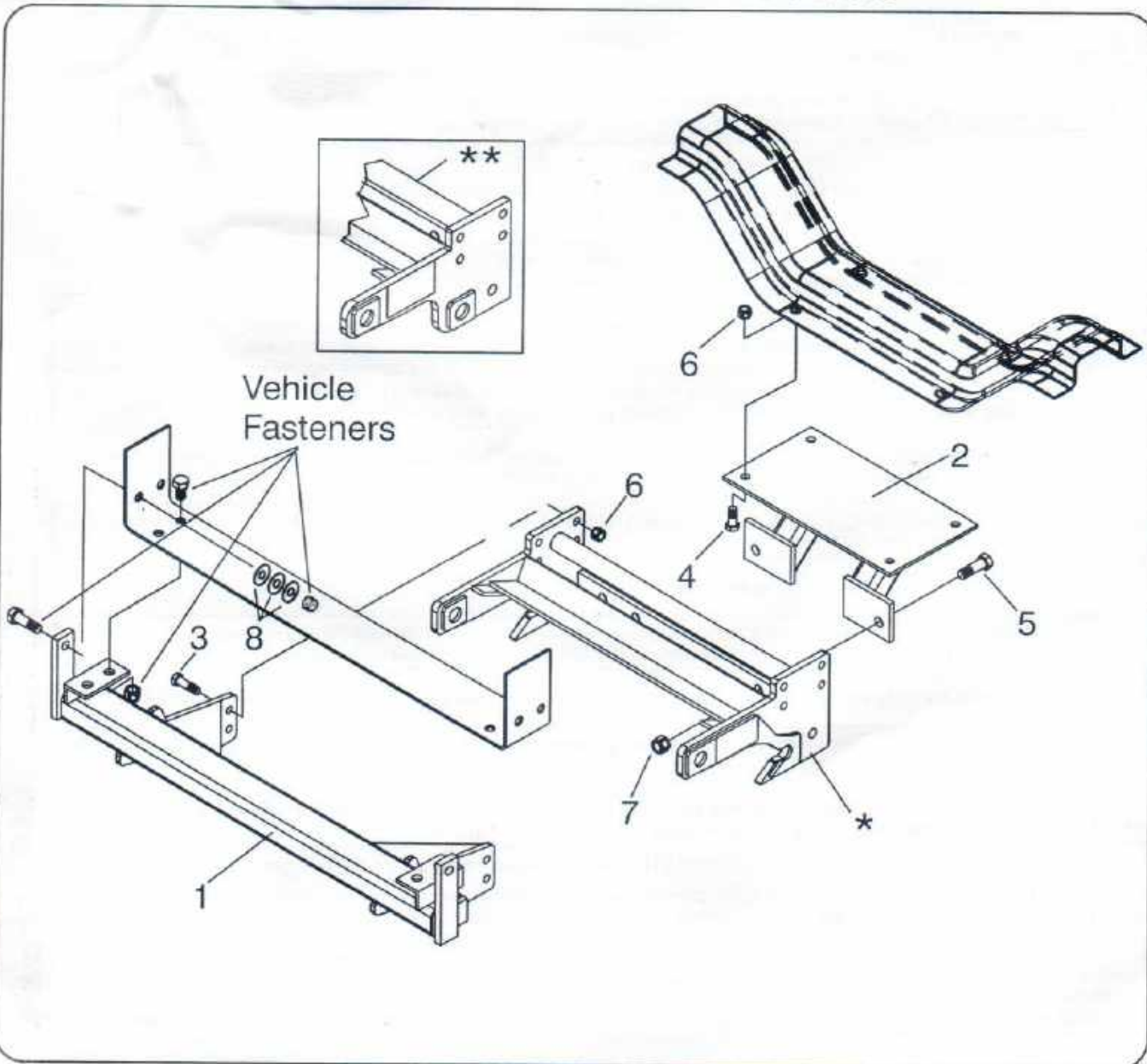
Locknuts are furnished **DO NOT** tighten bolts and nuts until installation is complete (unless otherwise specified), then be sure to tighten all attaching parts per specified torque chart.

**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.





## VEHICLE RECOMMENDATIONS

### **⚠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. Ballast weight should not exceed 800 lbs.

### **⚠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 Hino 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. Remove bumper in order to gain access to chassis bolts. Splash shield can be removed from bumper. Splash shield will not be reused.
- B. Remove the two bolts that hold the tow hook on passenger side. The tow hook will not be reinstalled. Remove the forward bolt of the two on the driver's side that are symmetrical to the tow hook bolts on the passenger side.

**Note: The latter bolt will be traded with the rear bolt that held the tow hook on the passenger side to install mounting and 5/8" flat washers will be used on these two bolts to make up for the difference in thickness between the tow hook and the mounting.**

- C. Remove the nuts from the vertical chassis bolts which line up with the mounting poles when the Upper Weld Assembly (1) is held in place.
- D. Hold Upper Weld Assembly (1) in place and fasten it with the two longer of the three bolts removed in step B. Do not tighten at this time. Install and tighten the shorter bolt where the rear tow hook bolt on the passenger side came from.
- E. Install vehicle nuts on vertical vehicle bolts. Do not tighten at this time.
- F. Install Rear Brace Weldment (2) to bottom of cross member of frame using 1/2-13 x 1-1/4" hex bolts (4) and locknuts (6).
- G. Attach clevis (\*) to Rear Brace Weldment (2) using 5/8-11 x 2" hex bolts (5) and locknuts (7).
- H. Attach clevis (\*) to Upper Weld Assembly (1) using 1/2-13 x 1-3/4" hex bolts (3) and locknuts (6).
- I. Tighten all of the bolts in the order which they were assembled.
- J. Reinstall bumper without splash shield.

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