






PARTS & INSTALLATION INSTRUCTIONS CUSTOM SNOW PLOW MOUNTING 17153 2005 & LATER GMC 4500/5500 4 X 4



End user must be given this instruction sheet prior to delivery of 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.
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	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.
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OVERHAUL and SERVICE INFORMATION are covered on separate instructions.

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.

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PARTS LIST

ITEM	PART NO.	QTY.	DESCRIPTION
	17153	1	MOUNTING CARTON
1	19588	1	• HM Hanger Weld
2	19584	2	• Clevis Weld
3	19573	1	• LH Push Plate Weldment
4	19574	1	• RH Push Plate Weldment
5	19582	1	• Cross Brace Assembly
6	19152	1	• Lift Frame
7	14219	1	• Lift Arm
	19168	2	• Light Bracket
	08869	1	• HARDWARE BAG
8	20096	1	• Bolt 1/2-13 x 1-3/4" Gr. 5
9	20097	8	• Bolt 1/2-13 x 2" Gr. 5
10	20098	1	• Bolt 1/2-13 x 2-1/4" Gr. 5
11	20141	2	• Bolt 5/8-11 x 2" Gr. 5
12	20144	1	• Bolt 5/8-11 x 2-3/4" Gr. 5
13	20146	2	• Bolt 5/8-11 x 3-1/4" Gr. 5
14	20164	2	• Bolt 3/4-10 x 2" Gr. 5
15	20165	2	• Bolt 3/4-10 x 2-1/4" Gr. 5
16	20307	10	• Locknut Esna 1/2-13
17	20309	4	• Locknut Esna 5/8-11
18	20310	4	• Locknut Esna 3/4-10
19	22257	4	• Special Flatwasher 7/16"
20	20359	2	• Flatwasher 3/4
21	22438	2	• 1" DIA. Pins
22	22083	2	• Lynch pin
23	22388	2	• Grommet
24	22460	1	• Elbow 90 Degree SAE 6

IMPORTANT

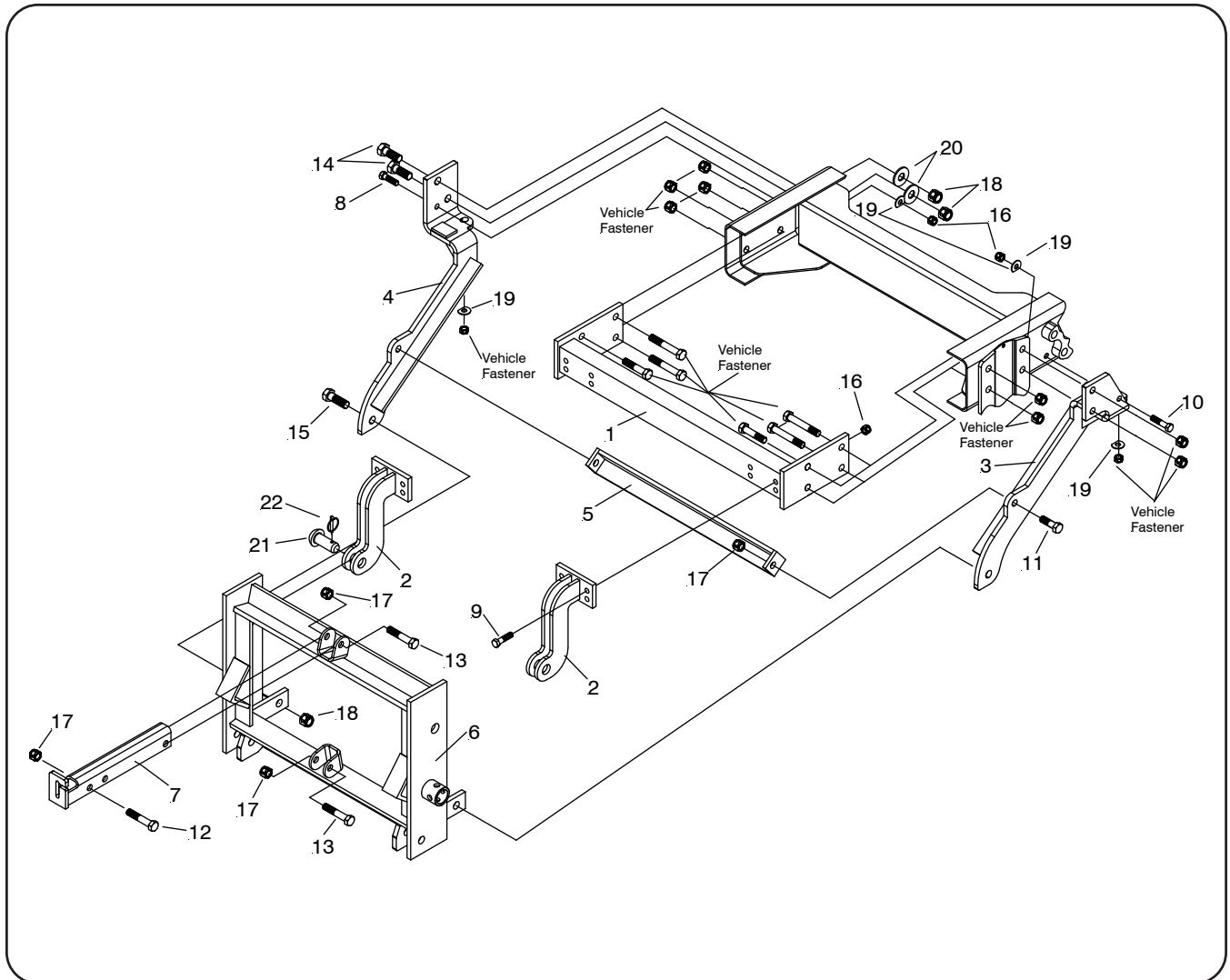
After first use, retighten all mounting bolt connections to specified torque. All mounting bolt connections to be checked periodically for tightness.

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

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



VEHICLE RECOMMENDATIONS

⚠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 manufacturer's specifications found in the GM Shop Manual.

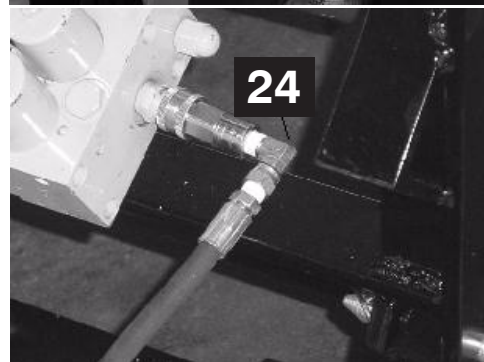
Rear ballast is determined by weighing a vehicle's front and rear axles and adding weight behind the rear axle until front axle weight is under or equal to the vehicle specific front GAWR while not exceeding the rear GAWR and GVWR.

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 front bumper by removing four nuts on the back side.
- B. Remove four "vehicle fastener" bolts/nuts on each side of the frame that hold the front leaf spring brackets/tow hooks (if equipped). Retain all hardware, it will be reused. The tow hooks will not be reinstalled.
- C. Position Hanger Weld (1) inside the frame rails and bumper support brackets. See illustration. Attach Hanger Weld (1) to the passenger side using the same bolts and nuts which were removed in step B. Attach Hanger Weld (1) to the driver's side using the same bolts and nuts that were removed in step B except front bolts (longer) may need to be installed in the rear holes and vice-versa to allow enough thread length for the next step. Leave the two nuts off the rear bolts on the driver's side only. Snug the other six bolts.
- D. Remove underside cross member's front bolt with tube spacer and nut on each side. Attach LH Push Plate Weld's (3) front two holes to the rear vehicle bolts & nuts from the previous step on the driver's side. Attach the rear hole through the frame using a 1/2-13 x 2-1/4" bolt (10), special washer (19) and locknut (16). Attach underside slot in the side member to bottom of frame using vehicle tube spacer and nut. Snug bolts at this time.
- E. Attach RH Push Plate Weldment's (4) two larger holes to the frame using 3/4-10 x 2" bolts (14), 3/4 Flatwashers (20) and 3/4 locknuts (18). Attach the smaller hole to the frame using 1/2-13 x 1-3/4" bolt (8), 7/16" Special Washer (19) and 1/2 locknut (16). Attach underside slot in the side member to bottom of frame using vehicle tube spacer and nut. Snug bolts at this time.

- F. Reinstall bumper at this time using original hardware.
- G. Install Clevis Welds (2) by bolting them through the holes in the bumper to the holes in the HM Hanger Weld (1) using 1/2-13 x 2-1/2" bolts (9) and 1/2 locknuts (16).
- H. Install Lift Frame (6) to Clevis Welds (2) using 1" DIA Pins (21) and Lynch Pins (22). Attach Lift Frame's (6) lower ears to LH & RH Push Plate Welds (3 & 4) using 3/4-10 x 2-1/4" bolt (15) and 3/4 locknuts (18).
- I. Tighten all fasteners to their proper torque. Tighten bolts in the same order they were assembled to the vehicle.
- J. Attach Lift Arm (7) to Lift Frame (6) using 5/8-11 x 3-1/4" bolt (13) and 5/8 locknut (17). Mount hydraulic unit to Lift Frame using 5/8-11 x 3-1/4" bolt (13) and 5/8 locknut (17) and to Lift Arm (7) using 5/8-11 x 2-3/4" bolt (12) and 5/8 locknut (17). (SEE LIFT ARM WARNING)
- K. Remove vehicle turn signals (below) by unplugging and removing nuts under the hood. Sandwich Light Brackets between the turn signal and the hood and reattach using same nuts. Plug turn signals back in. Carefully drill/file a 1" hole under turn signal for installation of Grommet (23) when installing Nite Saber kit as shown. Note: Grommet (23) will need to be cut on one side to slip over wire loom before being installed into the 1" hole.



- L. While installing hydraulics note that Male SAE Elbow (24) will need to be installed. Between the female coupler and the end of the angling hose as shown below.

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