

PARTS & INSTALLATION INSTRUCTIONS

DRIVE PRO™






SNOW PLOW MOUNTING CARTON 18521

2010 & LATER NP 300 4x4 MODELS

Residential Use Only



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 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
	18521	1	MOUNTING CARTON
1	10054	1	• RH Mount
2	10053	1	• LH Mount
3	11709	2	• Side Strap
4	11713	1	• LH Angle
5	11714	1	• RH Angle
	08283	1	• HARDWARE BAG
6	11140	2	•• Washer Plate 5/8"
7	20096	4	•• Bolt 1/2-13 x 1-3/4" Gr. 5
8	20141	2	•• Bolt 5/8-11 x 2" Gr. 5
9	20142	2	•• Bolt 5/8-11 x 2-1/4" Gr.5
10	20144	2	•• Bolt 5/8-11 x 2-3/4" Gr.5
11	20307	4	•• Locknut Esna 1/2-13
12	20309	6	•• Locknut Esna 5/8-11
13	20354	4	•• Flatwasher 7/16"
14	20355	2	•• Flatwasher 1/2"
15	20357	8	•• Flatwasher 5/8"
16	21990	4	•• Lockwasher 10mm
17	21991	2	•• Lockwasher 12mm
18	22138	2	•• Bolt M12-1.25 x 40mm Gr. 8.8
19	22158	4	•• Bolt M10-1.25 x 40mm Gr. 8.8
*	19836	1	Universal Clevis (Part of Drive Pro CLF Carton)
	P.A.F.		MEYER
	PART NO.	QTY.	DESCRIPTION
	16600	1	Pivot A-Frame Carton

IMPORTANT

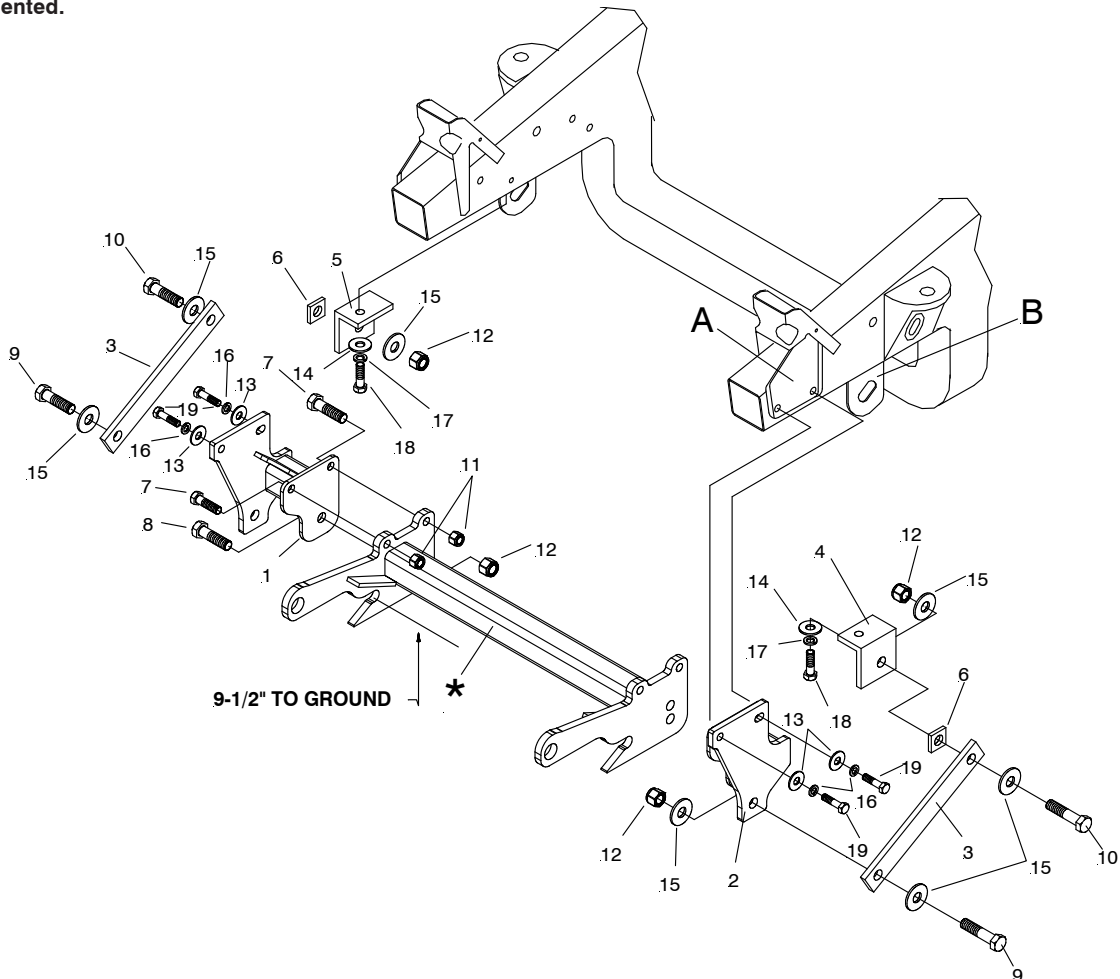
After first use, retighten all mounting bolt connections to specified torque. All mounting bolt connections to be checked periodically for tightness.

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**

- Due to weight restrictions on these vehicle's front GAWR, a Drive Pro 6' 8" moldboard is the largest that can safely be installed on the NP 300. Also limit to driver and one passenger only while plow is installed unless specified below.

**WARNING**

- Ballast weight is not required on the NP 300 models.
- 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 NP 300 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 two side bolts from radiator mounting bracket (A) on outside of frame rails. Retain, they will not be reused.
- B. Position LH & RH Mount (1 & 2) on outside of frame rails and align to where the radiator bracket bolts were removed. Attach LH & RH Mounts (1 & 2) on both sides using M10 x 1.25 x 40mm bolts (19), lock washers (16) and flatwashers (13). Do not tighten at this time.
- C. Install left hand Angle (4) under the frame rail next to slotted tab (B) using M12 x 1.25 x 40mm bolts (18), lockwashers (17) and flatwasher (14). Repeat for right hand Angle (5). Do not tighten at this time.
- D. Install bottom hole of Side Straps (3) to the outside of LH & RH Mount (1 & 2) using 5/8-11 x 2-1/4 bolts (9), flatwashers (15) and lock nuts (12). Do not tighten at this time.
- E. Install top hole of Side Straps (3) to Angles (4 & 5) using 5/8-11 x 2-3/4 bolts (10), flatwashers (15), spacer plates (6) and locknuts (12) per illustration. Do not tighten at this time.
Note: Slotted tabs (B) are sandwiched between spacer plates (6) and Angles (4 & 5).
- F. Loosely attach LH Mount and RH Mount (1 & 2) to Drive Pro Clevis (*) using 1/2-13 x 1-3/4" Bolt (7) and 1/2-13 Locknut (11) in top 2 holes. Also attach using 5/8-11 x 2" Bolt (8) and 5/8-11 Locknut (12) in lower hole.
Note: Before tightening the fasteners, the clevis 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 recommended ballast weight. Salt or sand bags are suggested.
- I. Install remaining snowplow hardware per separate instructions.

**WARNING**

Be sure that load is secure while transporting. With ballast weight in place, be sure that only the driver is in vehicle while plowing to avoid overloading.

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