



FH-400 NH TG/T8000

TerraGlide Suspended Axle

Undercarriage Installation Instructions

Caution:

- Always use precaution when working around any equipment.
 - Always wear safety glasses.
 - Follow tractor manufacturer's safety guidelines when installing this product.
1. Read all instructions prior to installation.
 2. Remove weights and weight bracket from front of tractor if necessary.
 3. Remove the hardware connecting the accumulators to the tractor. The accumulators will be reattached in a later step.
 4. Remove the step in front of the cab window on the left side. The step will be reinstalled in a later step.
 5. Position the undercarriage (U/C) under the tractor and center with the frame of the tractor.

Note: When lifting up the U/C be careful of the accumulators. The U/C may need to be lifted higher and the accumulators lowered to be able to get the accumulators in position in the U/C.

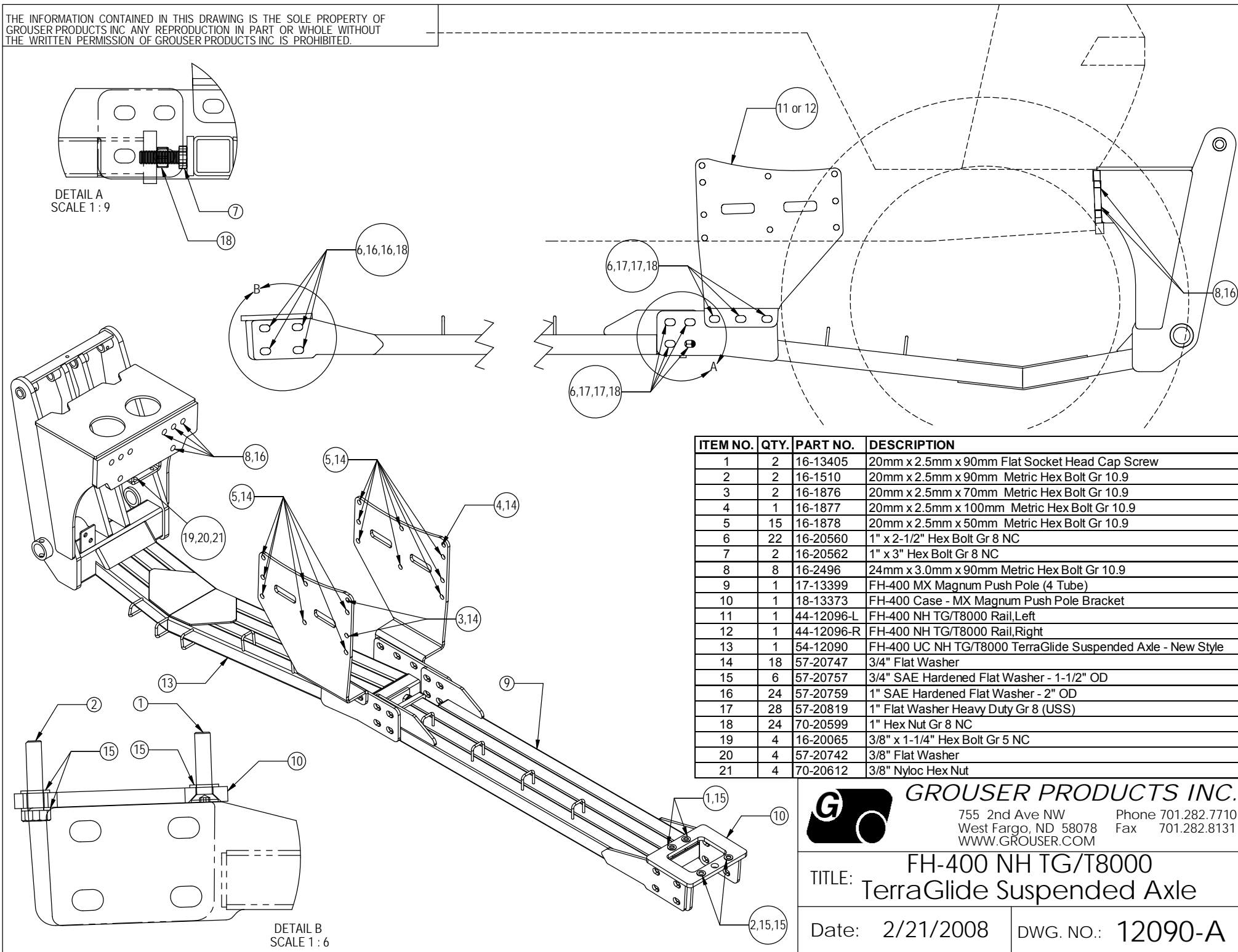
6. Lift the U/C to attach the accumulators behind the main bolting plate at the front of the U/C. The accumulators will fit under the top plate that has the 2 holes. The 2 holes are just for access. The accumulators have to be inserted from the bottom. Attach to the undercarriage with 3/8" x 1-1/4" bolts (PN: 16-20065), 3/8 flat washers (PN: 57-20742), and 3/8" nuts (PN: 70-20612).
7. Lift the U/C until the holes on the tractor line up with the holes on the U/C.
8. At the front of the tractor, use 8 - 24mm x 90mm bolts (PN: 16-2496) with a 1" SAE flat washer (PN: 57-20759) on each bolt to attach the U/C to the front of the tractor. Tighten finger tight. See the attached diagram for any clarification.
9. Remove the ground boss from the right side of the tractor. The boss will be reinstalled in Step #10.
10. Use 1 - 20mm x 100mm bolt (PN: 16-1877) with the ground boss and a 3/4" flat washer (PN: 57-20747) through the top rear hole of the right rail (PN: 44-12096-R) to attach the right rail to the tractor frame. See the attached diagram for any clarification.
11. Use 8 - 20mm x 50mm bolts (PN: 16-1878) with a 3/4" flat washer (PN: 57-20747) on each bolt through the remaining holes of the right rail to attach the right rail to the tractor frame.

Note: Don't install bolts in holes that were used for the front window step until Step #13.

12. Use 7 - 20mm x 50mm bolts (PN: 16-1878) with a 3/4" flat washer (PN: 57-20747) on each bolt in the holes of the left rail (PN: 44-12096-L) to attach the left rail to the tractor frame.

13. Use 2 - 20mm x 70mm bolts (PN: 16-1876) with a 3/4" flat washer (PN: 57-20747) on each bolt to attach the window step and the left rail to the tractor frame in the same holes that were originally used for the window step.
14. Attach the left and right rails to the left and right sides of the undercarriage with 3 - 1" bolts (PN: 16-20560), 6 - 1" heavy duty flat washers (PN: 57-20819), and 3 - 1" nuts (PN: 70-20599) for each side.
15. Once all bolts are installed, torque the front 24mm bolts to 909 ft-lbs.
16. Torque the 20mm bolts on the side rails to 432 ft-lbs.
17. Torque the 1" bolts attaching the side rails to the U/C to 903 ft-lbs.
18. Remove the tractor drawbar from the front drawbar pivot bracket.
19. Support the front drawbar pivot bracket with a floor jack or block and carefully remove the bolts holding the front drawbar pivot bracket to the tractor rear axle housing. Discard the removed bolts.
20. Install the push pole bracket (PN: 18-13373) by slipping the push pole bracket over the front drawbar pivot bracket with the chamfered holes facing down and toward the front of the tractor.
21. Place 4 - 3/4" SAE flat washers (PN: 57-20757) between the front drawbar pivot bracket and the push pole bracket. The washers are for the 4 outside holes on the push pole bracket. See the attached diagram for clarification.
22. Attach the front drawbar pivot bracket and the push pole bracket to the tractor rear axle housing with 2 - 20mm flat socket head cap screws (PN: 16-13405) in the front holes of the push pole bracket.
23. Use 2 - 20mm x 90mm bolts (PN: 16-1510) with a 3/4" SAE flat washer (PN: 57-20757) on the two bolts in the rear holes of the push pole bracket. See the attached diagram for any clarification.
24. Remove the floor jack or block.
25. Torque the 20mm flat socket head cap screws and the 20mm x 90mm bolts to 577-607 N-m (425-447 ft-lbs.).
26. Install 2 - 1" x 3" bolts (PN: 16-20562) and 2 - 1" nuts (PN: 70-20599) on the front end of the push pole (PN: 17-13399). Turn the 1" bolts in for installation. The bolts will be adjusted after the push pole is installed. See the attached diagram for proper installation of the bolts and nuts.
27. Position the push pole (PN: 17-13399) under the tractor. See the attached diagram for the correct orientation of the push pole.
28. Lift the end of the push pole with the installed bolts and nuts from Step #26 up to the U/C.
29. Attach the push pole to the U/C with 4 - 1" x 2-1/2" bolts (PN: 16-20560), 8 - 1" flat heavy duty washers (PN: 57-20819), and 4 - 1" nuts (PN: 70-20599) for each side. Tighten finger tight.
30. Attach the rear of the push pole to the push pole bracket with 8 - 1" x 2-1/2" bolts (PN: 16-20560), 16 - 1" SAE flat washers (PN: 57-20759), and 8 - 1" nuts (PN: 70-20599). Finger tighten the bolts and nuts.
31. Push the push pole as far forward as possible. Torque the eight rear 1" bolts on the push pole to 903 ft-lbs. and then torque the eight front 1" bolts on the push pole to 903 ft-lbs.
32. Unscrew the two 1" x 3" bolts at the front of the push pole until they are tight against the U/C. Torque the 1" bolts to 90-95 ft-lbs.
33. Tighten the nuts up tight against the push pole. Use the nuts to lock the bolts in place.
34. After first 8 hours of use, re-torque all bolts.
35. Check all fasteners regularly to ensure proper operation of equipment.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GROUSER PRODUCTS INC ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF GROUSER PRODUCTS INC IS PROHIBITED.



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	16-13405	20mm x 2.5mm x 90mm Flat Socket Head Cap Screw
2	2	16-1510	20mm x 2.5mm x 90mm Metric Hex Bolt Gr 10.9
3	2	16-1876	20mm x 2.5mm x 70mm Metric Hex Bolt Gr 10.9
4	1	16-1877	20mm x 2.5mm x 100mm Metric Hex Bolt Gr 10.9
5	15	16-1878	20mm x 2.5mm x 50mm Metric Hex Bolt Gr 10.9
6	22	16-20560	1" x 2-1/2" Hex Bolt Gr 8 NC
7	2	16-20562	1" x 3" Hex Bolt Gr 8 NC
8	8	16-2496	24mm x 3.0mm x 90mm Metric Hex Bolt Gr 10.9
9	1	17-13399	FH-400 MX Magnum Push Pole (4 Tube)
10	1	18-13373	FH-400 Case - MX Magnum Push Pole Bracket
11	1	44-12096-L	FH-400 NH TG/T8000 Rail, Left
12	1	44-12096-R	FH-400 NH TG/T8000 Rail, Right
13	1	54-12090	FH-400 UC NH TG/T8000 TerraGlide Suspended Axle - New Style
14	18	57-20747	3/4" Flat Washer
15	6	57-20757	3/4" SAE Hardened Flat Washer - 1-1/2" OD
16	24	57-20759	1" SAE Hardened Flat Washer - 2" OD
17	28	57-20819	1" Flat Washer Heavy Duty Gr 8 (USS)
18	24	70-20599	1" Hex Nut Gr 8 NC
19	4	16-20065	3/8" x 1-1/4" Hex Bolt Gr 5 NC
20	4	57-20742	3/8" Flat Washer
21	4	70-20612	3/8" Nyloc Hex Nut



GROUSER PRODUCTS INC.

755 2nd Ave NW Phone 701.282.7710
 West Fargo, ND 58078 Fax 701.282.8131
 WWW.GROUSER.COM

TITLE: FH-400 NH TG/T8000
 TerraGlide Suspended Axle

Date: 2/21/2008

DWG. NO.: 12090-A

DETAIL B
 SCALE 1:6

DETAIL A
 SCALE 1:9