



FH-400 JD 7030 Small Frame - Non-Suspended 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 loader, loader brackets, and hood guard if necessary.

NOTE: The loader brackets can be reinstalled after the rear rails are installed after Step #16.

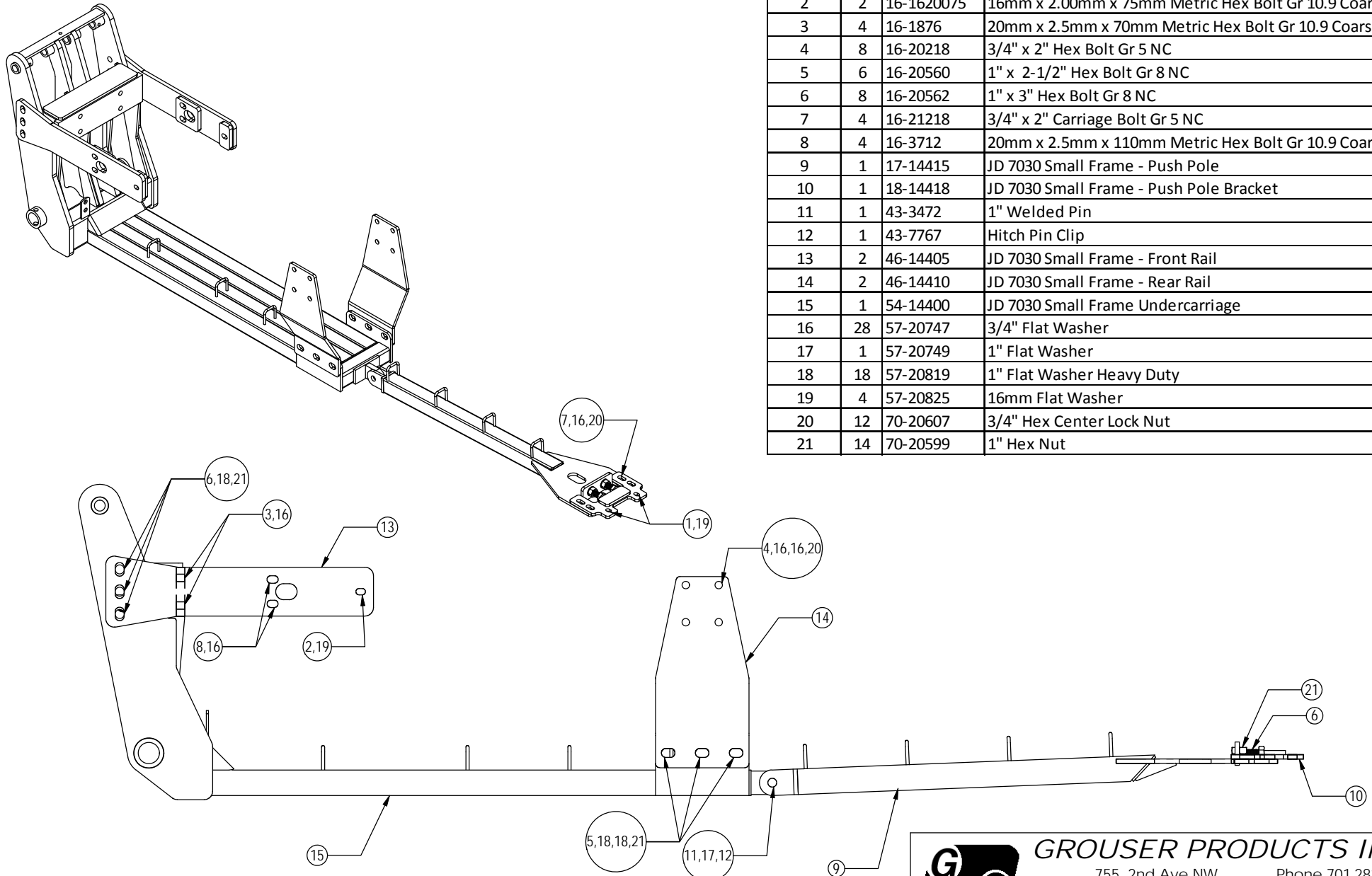
4. Position the undercarriage (U/C) under the tractor and center with the frame of the tractor.
5. Lift the U/C until the holes on the front of the tractor tractor line up with the holes on the U/C.
6. At the front of the tractor, use 4 - 20mm x 70mm bolts (PN: 16-1876) with a 3/4" flat washer (PN: 57-20747) on each bolt to attach the U/C to the front of the tractor. Tighten finger tight. See the attached diagram for any clarification.

NOTE: If there are any bolts in the side frame of the tractor, the bolts may need to be removed if they are in the way of any new brackets that need to be installed.

7. Insert 4 - 3/4" x 2" bolts (PN: 16-20218) with a 3/4" flat washer (PN: 57-20747) on each bolt in the holes of each rear rail (PN: 46-14410) and the tractor frame. See the attached diagram for any clarification.
8. After all 8 bolts are through the tractor frame, attach with a 3/4" flat washer (PN: 57-20747) and a 3/4" nut (PN: 70-20607) on each bolt.
9. Attach the rear 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.
10. Insert a 1" x 3" bolt (PN: 16-20562) with a 1" heavy duty flat washer (PN: 57-20819) on each bolt through
11. each hole of the front rails (PN: 46-14405) and the undercarriage.
After all 6 bolts are through the undercarriage, attach with a 1" nut (PN: 70-20599) on each bolt.
12. Attach the front rails to the tractor frame with 4 - 20mm x 110mm bolts (PN: 16-3712) and a 3/4" flat washer (PN: 57-20747) on each bolt in the front holes. See attached diagram for clarification.
13. In the rear holes of the rail, use 2 - 16mm x 75mm bolts (PN: 16-1620075) and a 16mm washer (PN: 57-20825) on each bolt.
14. Once all bolts are installed, torque the front 20mm bolts to 432 ft-lbs.
15. Torque the 20mm bolts on the front rails to 432 ft-lbs., the 16mm bolts to 200 ft-lbs, and then the 1" bolts attaching the front rail to the undercarriage to 903 ft-lbs.

- 16.** Torque the 3/4" bolts on the rear rails to 257 ft-lbs and then the 1" bolts attaching the rear rails to the U/C to 903 ft-lbs.
- 17.** Remove the front bolts from the drawbar support bracket. Discard the removed bolts.
- 18.** Insert 4 - 3/4" carriage bolts (PN: 16-21218) in the front holes on the push pole bracket (PN: 18-14418).
- 19.** Attach the push pole bracket to the drawbar support bracket under the rear axle with 2 - 16mm x 110mm bolts (PN: 16-16200110) and a 16mm flat washer (PN: 57-20825) on each bolt. See attached diagram for the correct orientation of the bracket.
- 20.** Push the push pole bracket back until it is tight against the tractor's drawbar bracket.
- 21.** Torque the 16mm bolts to 200 ft-lbs.
- 22.** Install 2 - 1" x 3" bolts (PN: 16-20562) and 2 - 1" nuts (PN: 70-20599) on the rear end of the push pole (PN: 17-14415). 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.
- 23.** Position the push pole (PN: 17-13399) under the tractor. See the attached diagram for the correct orientation of the push pole.
- 24.** Lift the end of the push pole with the installed bolts and nuts from Step #22 up to the push pole bracket.
- 25.** Attach the push pole to the push pole bracket with a 3/4" flat washer (PN: 57-20747) and a 3/4" nut (PN: 70-20607) on each of the previously installed 3/4" carriage bolts from Step #18. Tighten finger tight.
- 26.** Lift the front of the push pole up. Attach the push pole to the undercarriage with a pin (PN: 43-3472), 1" flat washer (PN: 57-20749), and pin clip (PN: 43-7767).
- 27.** Torque the rear 3/4" bolts on the push pole to 257 ft-lbs.
- 28.** Unscrew the two 1" x 3" bolts at the rear of the push pole until they are tight against the push pole bracket.
- 29.** Torque the 1" bolts to 90-95 ft-lbs.
- 30.** Tighten the nuts up tight against the push pole. Use the nuts to lock the bolts in place.
- 31.** After first 8 hours of use, re-torque all bolts.
- 32.** Check all fasteners regularly to ensure proper operation of equipment.

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Item No.	Qty.	Part No.	Description
1	2	16-16200110	16mm x 2.00mm x 110mm Metric Hex Bolt Gr 10.9 Coarse
2	2	16-1620075	16mm x 2.00mm x 75mm Metric Hex Bolt Gr 10.9 Coarse
3	4	16-1876	20mm x 2.5mm x 70mm Metric Hex Bolt Gr 10.9 Coarse
4	8	16-20218	3/4" x 2" Hex Bolt Gr 5 NC
5	6	16-20560	1" x 2-1/2" Hex Bolt Gr 8 NC
6	8	16-20562	1" x 3" Hex Bolt Gr 8 NC
7	4	16-21218	3/4" x 2" Carriage Bolt Gr 5 NC
8	4	16-3712	20mm x 2.5mm x 110mm Metric Hex Bolt Gr 10.9 Coarse
9	1	17-14415	JD 7030 Small Frame - Push Pole
10	1	18-14418	JD 7030 Small Frame - Push Pole Bracket
11	1	43-3472	1" Welded Pin
12	1	43-7767	Hitch Pin Clip
13	2	46-14405	JD 7030 Small Frame - Front Rail
14	2	46-14410	JD 7030 Small Frame - Rear Rail
15	1	54-14400	JD 7030 Small Frame Undercarriage
16	28	57-20747	3/4" Flat Washer
17	1	57-20749	1" Flat Washer
18	18	57-20819	1" Flat Washer Heavy Duty
19	4	57-20825	16mm Flat Washer
20	12	70-20607	3/4" Hex Center Lock Nut
21	14	70-20599	1" Hex Nut



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TITLE: FH-400 U/C
 JD 7030 - Small Frame

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