



Ag Pro Plus - John Deere 9R IT4

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 performing installation.
2. If applicable, remove front weights, weight bracket, toolbox, and front axle brace from front of tractor.
3. Attach the left and right axle brackets (PN: 18-15380-R,L) to the axle with 6 - 24mm X 150mm bolts (PN: 16-1875) and 6 - axle mount washers (PN: 57-3098) into the vertical holes on each side. Finger tighten the 24mm bolts until the brackets are against the axle. Slide the brackets outward away from center of tractor to allow room to install the undercarriage.

NOTE: Some tractors only have 4 holes in the axle. The installation instructions are still compatible, but only use 4 bolts and washers instead of 6 in Step #3.

4. Before lifting the undercarriage in place, install 2 - 7/8" X 2-1/2" bolts (PN: 16-20540) with a 7/8" flat washer (PN: 57-20818) on each bolt from the inside of the undercarriage into the 2 center bolting locations where the axle brackets will be attached to the undercarriage on each side. Refer to attached diagram for any clarification. Be careful when lifting undercarriage into place that these bolts don't hit the axle brackets.
5. Position undercarriage under tractor, center on the frame of the tractor. Lift U/C until holes in U/C line up with holes in the side of the tractor frame.

NOTE: Add shims between the U/C and the tractor frame to reduce any gap if necessary. Use shims till there is a gap of 1/16" or less on the front shim with 6 holes. See attached diagram for the proper location and orientation of each spacer.

6. Install 6 - 7/8" X 3" bolts (PN: 16-20542) with a 7/8" hardened flat washer (PN: 57-20758) on each bolt through the front holes on each side of the U/C and the tractor frame. See attached diagram for any clarification.
7. Install 3 - 7/8" X 3" bolts (PN: 16-20542) with a 7/8" heavy washer (PN: 57-3681) on each bolt through the 2nd batch of holes on each side of the U/C and the tractor frame. See attached diagram for any clarification.
8. Install 7 - 7/8" X 2-1/2" bolts (PN: 16-20540) with a 7/8" heavy washer (PN: 57-3681) on each bolt through the remaining holes on each side of the U/C and the tractor frame. See attached diagram for any clarification.
9. After all the bolts are through the tractor frame, attach with a 7/8" hardened flat washer (PN: 57-20758) and a 7/8" nut (PN: 70-20598) on the 6 front bolts on each side and a 7/8" heavy flat washer (PN: 57-20818) and 7/8" nut (PN: 70-20598) on each of the remaining 10 bolts.
10. Slide the axle brackets toward the center of the tractor and attach the left and right axle brackets to the U/C with a 7/8" heavy washer (PN: 57-3681) and a 7/8" nut (PN: 70-20598) on each bolt that was installed in Step #3.
11. Install 5 - 7/8" X 3" bolts (PN: 16-20542) with a 7/8" heavy washer (PN: 57-3681) on each bolt for the remaining holes in each of the axle brackets. Bolts can be installed from the outside
12. After all the bolts are through the U/C holes, attach with a 7/8" clipped heavy washer (PN: 57-15594) and a 7/8" nut (PN: 70-20598) on the front 2 bolts on each side.
13. Use a 7/8" heavy washer (PN: 57-3681) and a 7/8" nut (PN: 70-20598) on the remaining rear 3 bolts on each side.

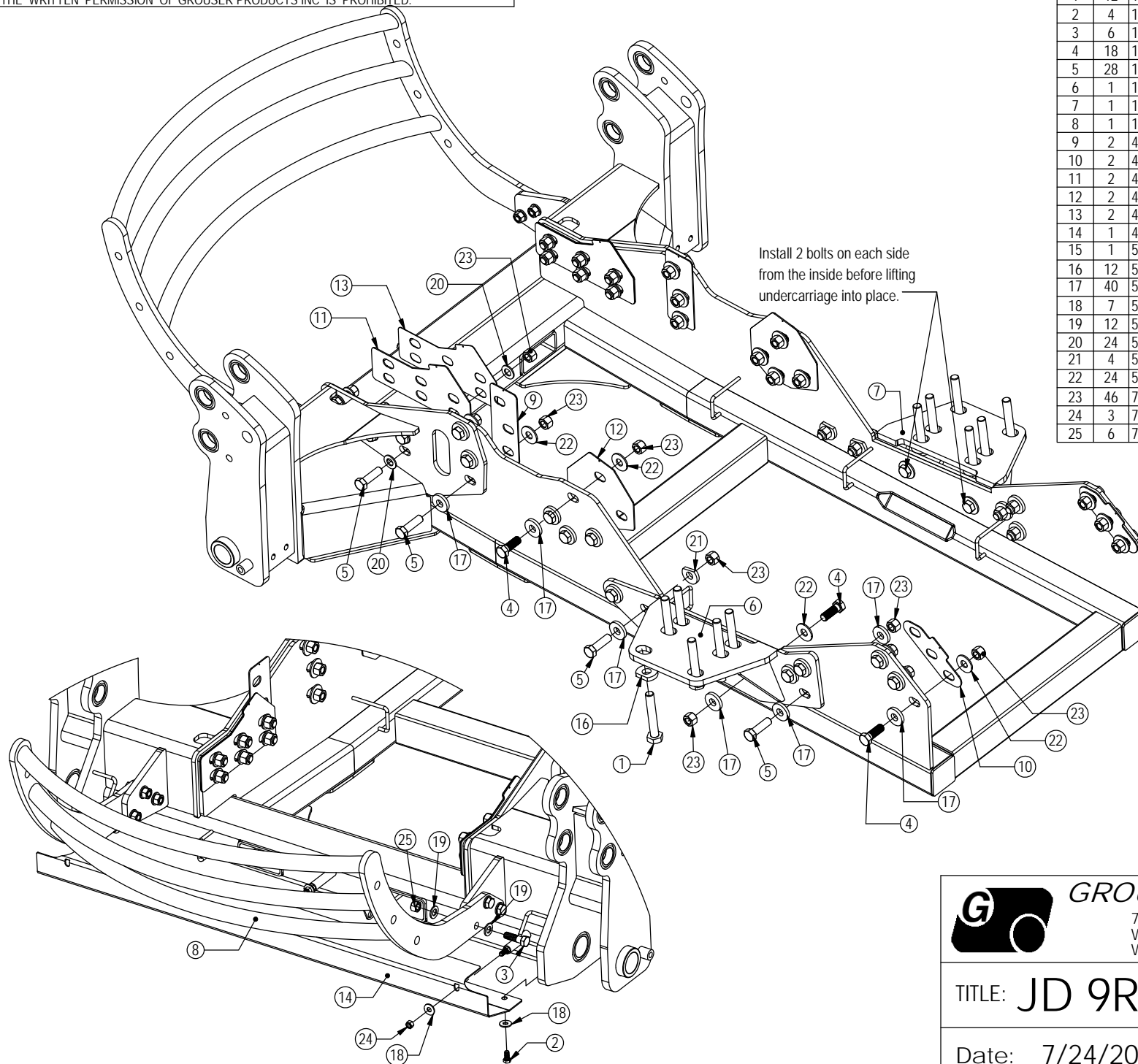
14. Verify that all bolts are tight and spacers are used where needed between the tractor frame and undercarriage.
15. Torque 7/8" bolts on one side of the undercarriage to 600 ft-lbs.
16. Add shims on opposite side of undercarriage if needed to insure a gap of 1/16" or less.
17. Torque the 24mm bolts to 909 ft-lbs., torque the 7/8" bolts on the axle bracket to 600 ft-lbs. and then torque the remaining 7/8" bolts to 600 ft-lbs.
18. Install the Grill Guard (PN: 18-18059) to the front of the undercarriage with 3 - 3/4" x 2-1/2" bolts (PN: 16-20220), 6 - 3/4" flat washers (PN: 57-20757), and 3 - 3/4" lock nuts (PN: 70-20607) on each side.
19. Torque the 3/4" bolts to 257 ft-lbs.,
20. After first 8 hours of use, re-torque all bolts.
21. Check all fasteners regularly to ensure proper operation of equipment.

Special Note

John Deere 9R tractors (non scraper versions) can experience a condition that will cause a cavitation or squealing in the hydraulic pump. This cavitation will cause a chatter when the operator raises their blade. Another symptom is a spongy feel in the lift circuit that will result in the blade wanting to ride up the pile instead of stay where the operator intended.

If you are experiencing these conditions and would like to fix it, please refer to John Deere Accumulator Kit RE337241

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ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	12	16-1875	24mm x 3mm x 150mm Hex Bolt
2	4	16-20124	1/2" x 1" Hex Bolt Gr.5 NC
3	6	16-20220	3/4" x 2-1/2" Hex Bolt Gr.5 NC
4	18	16-20540	7/8" X 2-1/2" Hex Bolt Gr 8 NC
5	28	16-20542	7/8" X 3" Hex Bolt Gr 8 NC
6	1	18-15380-L	Bracket, Axle Weld
7	1	18-15380-R	Bracket, Axle Weld
8	1	18-18059R1	Grill Guard Weld
9	2	44-11847	Plate, Mid-Front
10	2	44-11849	Plate, Rear
11	2	44-15543	Plate, Front
12	2	44-15573	Plate, Mid-Rear
13	2	44-16811	Plate, Front
14	1	44-18046R2	Cover
15	1	54-18570R2	Undercarriage Weld
16	12	57-3098	1.05" ID x 2.50" OD - JD Axle Mount Washer
17	40	57-3681	7/8" ID x 2-1/4" OD x .375" Heavy Washer
18	7	57-20744	1/2" Flat Washer
19	12	57-20757	3/4" Flat Washer - 1-1/2" OD
20	24	57-20758	7/8" SAE Hardened Flat Washer - 1-3/4" OD
21	4	57-15594	7/8" ID x 2-1/4" OD x .375" Heavy Washer
22	24	57-20818	7/8" Flat Washer Heavy Duty Gr 8 (USS)
23	46	70-20598	7/8" Hex Nut Gr 8 NC
24	3	70-20604	1/2" Center Lock Hex Nut
25	6	70-20607	3/4" Hex Center Lock Nut NC



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TITLE: JD 9R IT4

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