



John Deere 8R

Undercarriage Installation Instructions

For Models:

8R: 8R 230, 8R 250, 8R 280, 8R 310, 8R 340, 8R 370, 8R 410

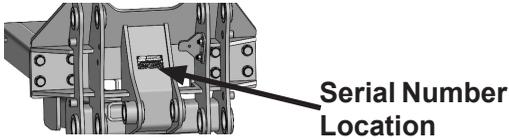
Purchase Date
Serial Number
Model Number
Tractor Model
Dealer

To The Owner

This manual contains information concerning the installation of the undercarriage. You have purchased dependable, long lasting equipment, but only by proper care and operation can you expect to receive the performance and long service built into our products. Please have all operators read this manual carefully and keep the manual available for ready reference. If you have any questions or concerns, contact Grouser Products.

Caution:

- Always use caution when working around any equipment.
- Always wear safety glasses.
- Follow tractor manufacturer's safety guidelines when installing this product.
- Use paint where necessary to prevent rust.
- Do not modify or permit anyone else to modify or alter the equipment and its components without first consulting Grouser Products.



Note:

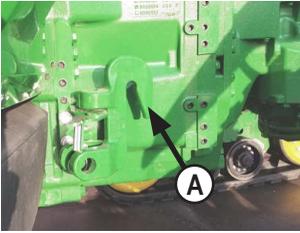
- When installing hardware, only finger tighten until all hardware is in place.
- A full diagram of the assembly with the full list of parts is on pages 6-7.
- Unstrap and remove any components that are attached for shipping.
- Read all instructions prior to performing installation.



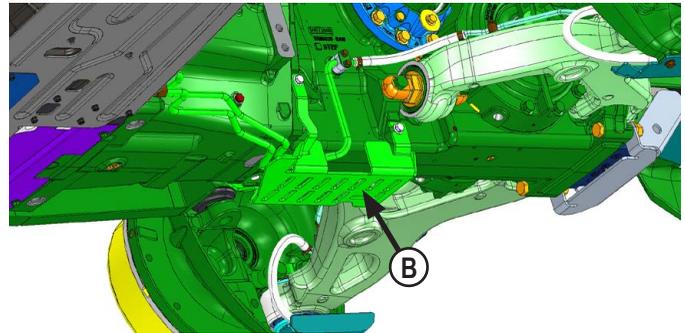
To ensure the safety of those working under and around the machine, apply parking brake, remove key from ignition, and block tires before working on the machine.

Pre-Installation

1. If applicable, remove front weights and front weight carrier.

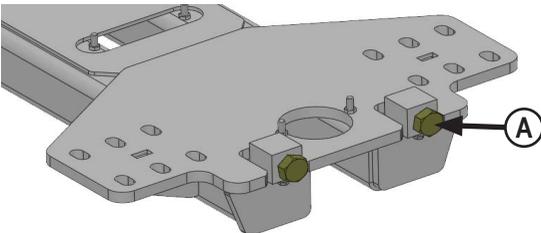


2. If applicable, remove implement quick coupler and bracket from right side of tractor (A).



3. If applicable, remove CTIS cover (B).

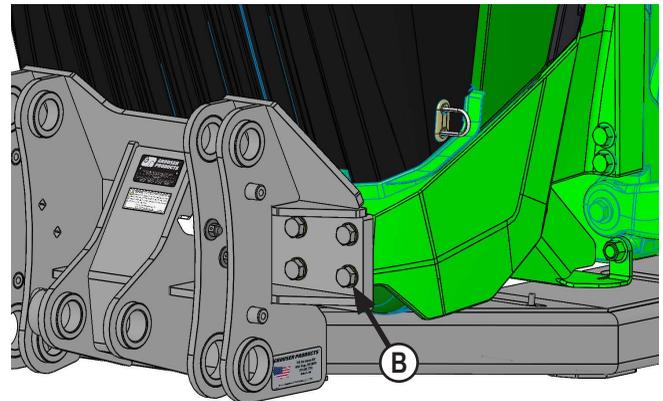
Installation



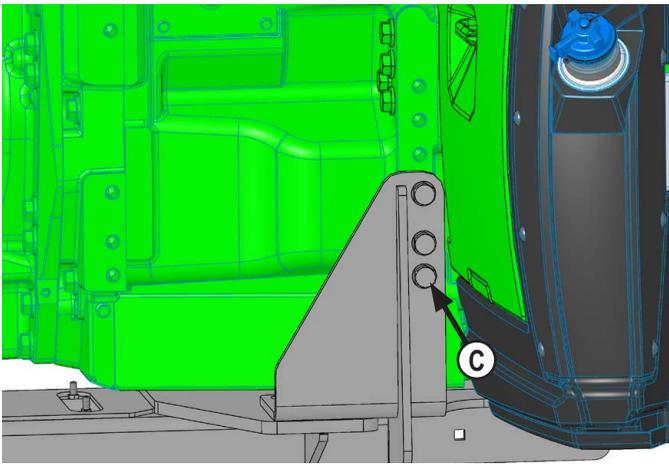
1. Install 2 - 1" x 3" bolts in threaded blocks at rear of undercarriage (A). Bolts will be adjusted in a later step.
2. Center undercarriage under tractor.

NOTE: When lifting undercarriage, watch for potential pinching of hoses or any other components to prevent damage.

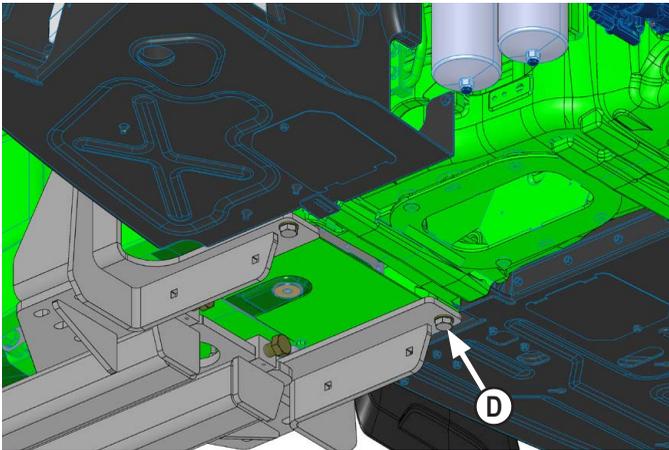
3. Raise undercarriage until holes on undercarriage line up with front holes on tractor.



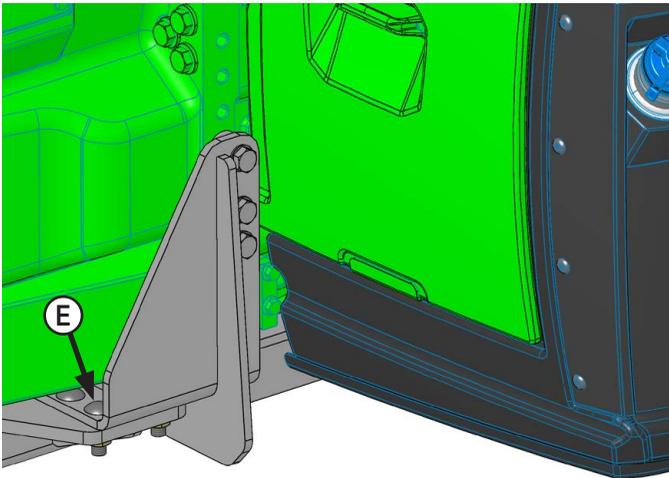
4. Attach front of undercarriage to tractor with 8 - 20mm x 70mm bolts and 8 - 3/4" flat washers (B).



5. Attach rear tail brackets to transmission housing with 6 - 20mm x 75mm bolts and 6 - 20mm washers (C).
6. If applicable, reattach implement quick coupler with right tail bracket and hardware from Step #4.

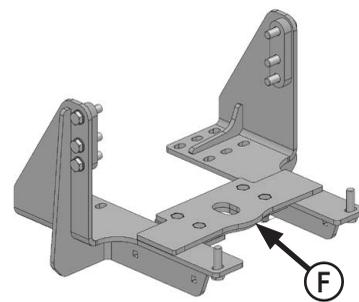


7. Attach rear tail brackets to bottom of tractor with 2 - 20mm x 70mm bolts and 2 - 3/4" flat washers (D).

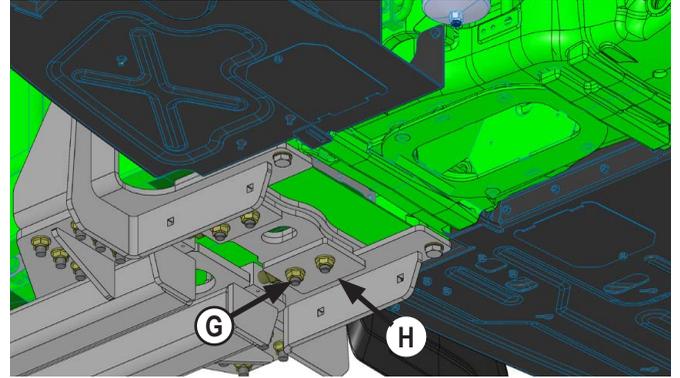


8. Attach rear brackets to rear of undercarriage with 12 - 3/4" x 2" carriage bolts and 12 - 3/4" flange nuts (E).

NOTE: Hand tighten the tail bracket bolts. The brackets need to slide on undercarriage until bolts are tightened in later steps.



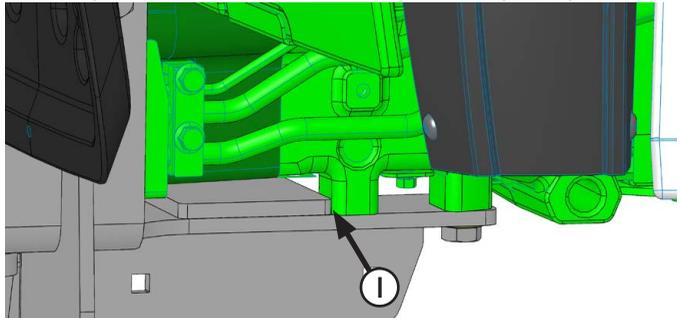
9. Place 4 - 3/4" x 2" bolts into sliding plate bracket and position on top of tail brackets with round edge towards rear of tractor (F).



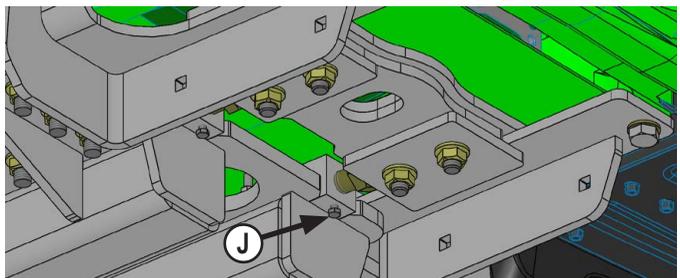
10. Attach bottom clamp plates with 4 - 3/4" flange nuts (G). Verify plates are attached with the longer edge of plate is under tail brackets (H).

11. Torque front 20mm bolts to 432 ft-lbs (B).

12. Torque tail bracket 20mm bolts to 432 ft-lbs (C & D).



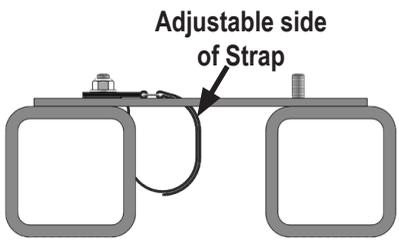
13. Evenly unscrew 1" bolts at rear of undercarriage to push sliding bracket against transmission housing (I). Torque 1" push bolts to 90-95 ft-lbs.



14. Install 2 - 5/16" x 3/4" bolts into blocks at rear of undercarriage to lock 1" x 3" bolts (J). Torque 5/16" bolts to 19 ft-lbs.

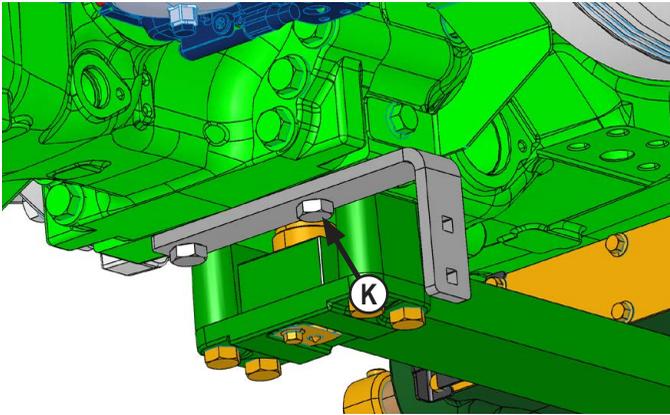
15. Torque sliding bracket 3/4" nuts to 257 ft-lbs (G).

16. Torque tail bracket 3/4" flange nuts to 257 ft-lbs (E).



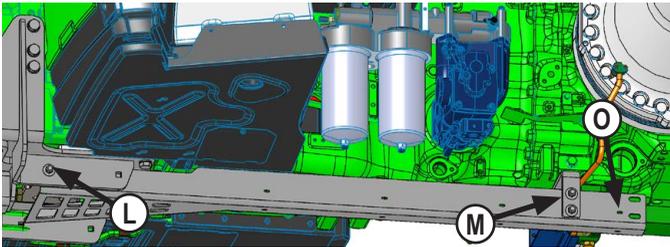
17. Route hoses down undercarriage under plate and between tubes. Secure hoses with velcro straps.

Note: The installer is responsible to route hoses in a practical manner, to protect the hoses around sharp corners and moving objects, and secure hoses.



18. Attach rear hose bracket in front of drawbar bracket with 2 - 20mm x 50mm bolts and 2 - 3/4" flat washers (K). Install bracket with leg is on left side.

19. Torque hose bracket 20mm bolts to 432 ft-lbs (K).



20. Route hoses down hose channel.

21. Raise hose channel with hoses and attach to left rear bracket with 1 - 1/2" x 1-1/2" carriage bolt, 1 - 1/2" flat washer, and 1 - 1/2" nut (L). Install bolts from inside of hose channel.

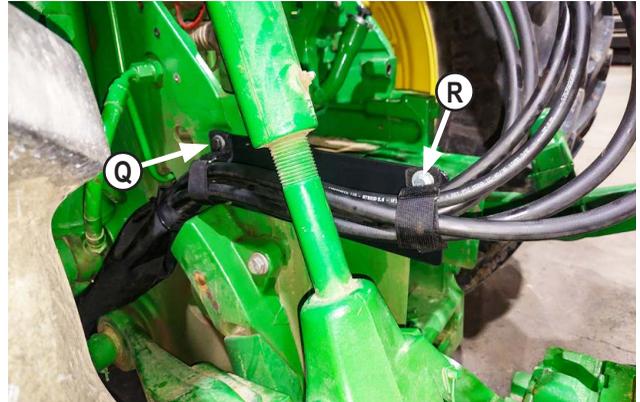
22. Raise hose channel with hoses and attach to rear hose bracket with 2 - 1/2" x 1-1/2" carriage bolts, 2 - 1/2" flat washers, and 2 - 1/2" nuts (M). Install bolts from inside of hose channel. Torque the hose channel 1/2" nuts to 78 ft-lbs (L & M).

23. Use a heavy duty zip tie in rear slot on hose channel to secure hoses to end of hose channel (O).

24. Use additional zip ties in holes along hose channel to secure hoses to hose channel.



25. Wrap hoses with cordura and route hoses through opening as shown (P).



26. Attach hose bracket to left side of rear drawbar bracket frame above sway block support with 1 - 10mm x 25mm bolt, 1 - 3/8" flat washer, 1 - 12mm x 20mm bolt and 1 - 7/16" flat washer. Secure a velcro strap with top bolt (Q).

27. Attach velcro strap to bracket with 3/8" x 1" bolt, a 3/8" flat washer and 3/8" flange nut in rear top bolt (R).

28. Protect hoses around sharp corners and moving objects. Use zip ties to secure hoses in place.

29. Plug hoses into open SCV's at rear or tractor.

 **See Page 5 for clearance warning after assembling lift system.**

NOTE: In some instances, following the above hose routing is not applicable and it is installers responsibility to route hoses in a practical manner, to protect the hoses around sharp corners and moving objects, and secure hoses.

Assembling Lift Components

Refer to the Blade Owner's Manual & Parts Book for instructions on how to assemble the lift components.

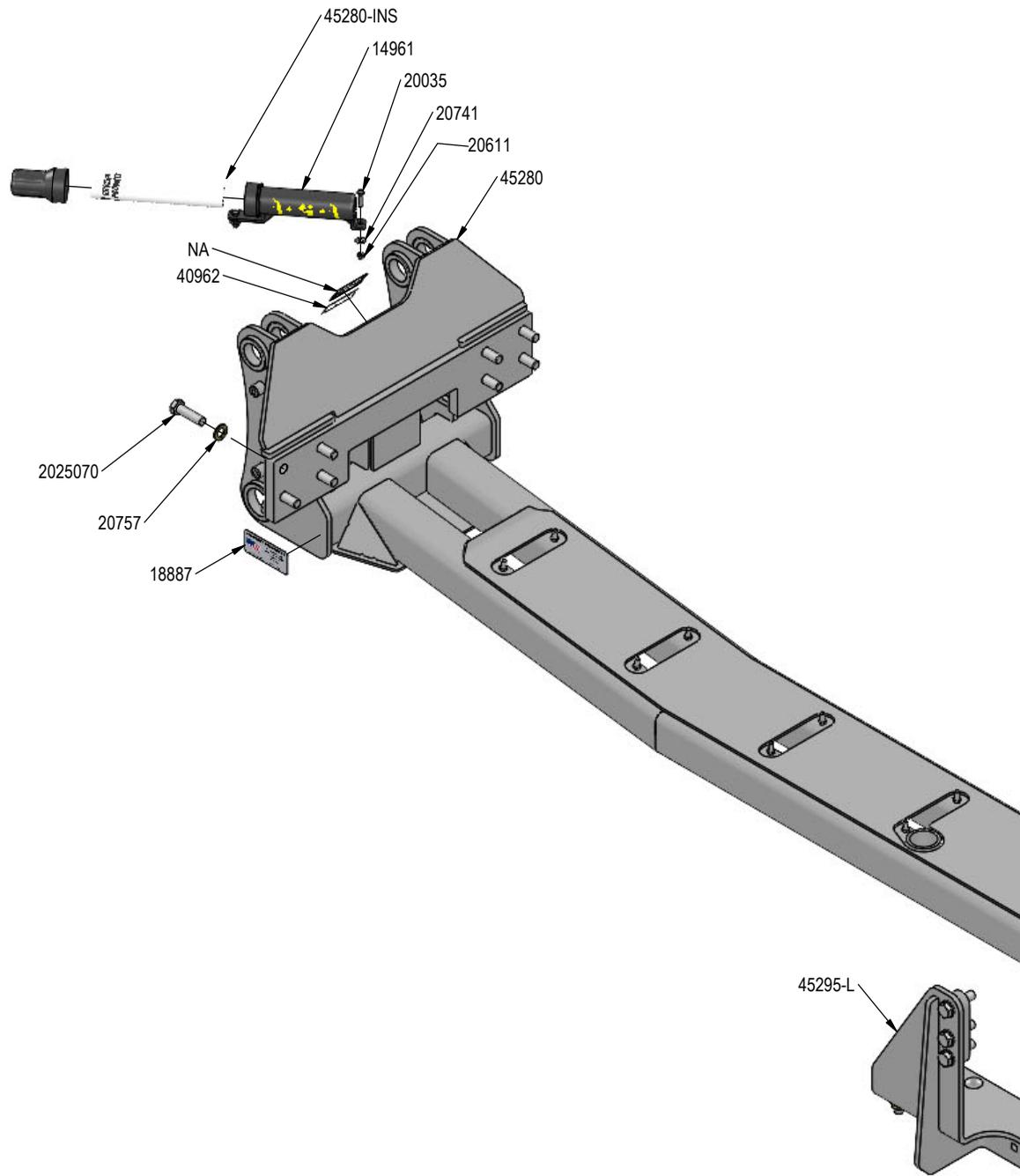


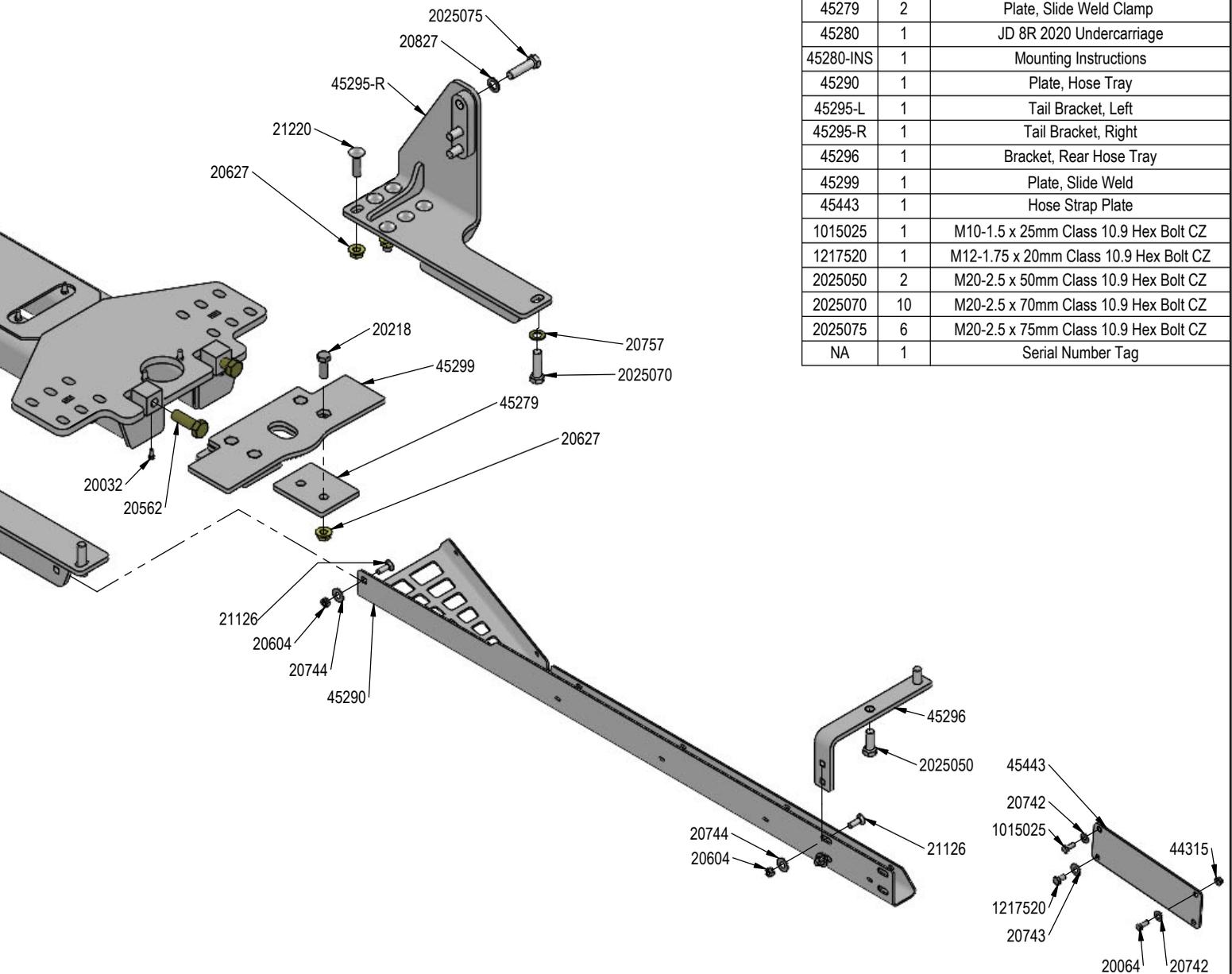
Fully oscillate the blade angle and tilt, and the tractor steering, suspension and rear 3-point to check for adequate clearance. Adjustments to steering stops and row spacing may be necessary if any interference with tires.

The minimum clearance between any part on the blade and the front tires when the blade is fully angled, should be 3". If more clearance is necessary between the blade and front tires, call Grouser Products.

Maintenance

1. After first 8 hours of use, re-torque all bolts. Check to make sure 1" bolts at back of undercarriage are tight against push plate.
2. Check all fasteners regularly to ensure proper operation of equipment.
3. Inspect all equipment for existing or potential damages every 10 hours or less.





PART NO.	QTY.	DESCRIPTION
14961	1	Manual Canister Small
18887	1	Grouser Name Plate Decal - Made in USA
20032	2	5/16" X 3/4" Hex Bolt Gr 5 NC CZ
20035	2	5/16" X 1-1/4" Hex Bolt Gr 5 NC CZ
20064	1	3/8" X 1" Hex Bolt Gr 5 NC CZ
20218	4	3/4" X 2" Hex Bolt Gr 5 NC CZ
20562	2	1" X 3" Hex Bolt Gr 8 NC YZ
20604	5	1/2" Hex Center Lock Nut Gr 5 NC CZ
20611	2	5/16" Nyloc Hex Nut Gr 5 NC CZ
20627	16	3/4" Flange Hex Top Locking Nut Gr 5 NC YZ
20741	2	1/4" Flat Washer CZ
20742	2	3/8" Flat Washer CZ
20743	1	7/16" Flat Washer CZ
20744	5	1/2" Flat Washer CZ
20757	10	3/4" SAE Hardened Flat Washer - 1-1/2" OD
20827	6	20mm Flat Washer
21126	5	1/2" x 1-1/2" Carriage Bolt Gr 5 NC CZ
21220	12	3/4" x 2-1/2" Carriage Bolt GR 5 NC CZ
40962	1	Warning Prop 65 Decal
42691	1	Hose Bracket
44315	1	3/8" Nyloc Flange Nut Gr N5 NC
45279	2	Plate, Slide Weld Clamp
45280	1	JD 8R 2020 Undercarriage
45280-INS	1	Mounting Instructions
45290	1	Plate, Hose Tray
45295-L	1	Tail Bracket, Left
45295-R	1	Tail Bracket, Right
45296	1	Bracket, Rear Hose Tray
45299	1	Plate, Slide Weld
45443	1	Hose Strap Plate
1015025	1	M10-1.5 x 25mm Class 10.9 Hex Bolt CZ
1217520	1	M12-1.75 x 20mm Class 10.9 Hex Bolt CZ
2025050	2	M20-2.5 x 50mm Class 10.9 Hex Bolt CZ
2025070	10	M20-2.5 x 70mm Class 10.9 Hex Bolt CZ
2025075	6	M20-2.5 x 75mm Class 10.9 Hex Bolt CZ
NA	1	Serial Number Tag

DWG. NO.: 45280-A

Improvements

Grouser Products Inc. is continually striving to improve its products. We reserve the right to change prices, specification, or equipment at any time without notice. We also reserve the right to make improvements or changes when it becomes practical and possible to do so without incurring any obligation to make changes or additions to the equipment sold previously.

Warranty

Grouser Products warrants to the original purchaser of each item that the product be free from defects in material and workmanship under normal use and service for a period of **two (2) years for Agriculture Series Blades and one (1) year for Heavy Duty Series from date of original retail delivery.**

The obligation of the consumer under this warranty:

1. To read the operators manual and to operate, lubricate, maintain and store equipment in accordance with the instructions listed in the operators manual.
2. To inspect equipment and if any part needs repair or replacement when continued use would cause damage or wear to other parts or safety.
3. All equipment or parts claimed to be defective in material or workmanship must be made available for inspection at the place of business of a dealer authorized to handle the equipment covered by this warranty, or, upon request by Grouser Products, shipped to the Grouser Products factory in West Fargo, North Dakota.

The obligation of the dealer under this warranty:

1. Complete warranty registration form and submit within 30 days of sale.
2. Contact Grouser Products for authorization prior to performing any warranty repairs or part replacement.
3. Complete warranty request form and submit with photos and supporting documentation.

The obligation of Grouser Products under this warranty:

1. Repair or replace, any equipment or parts, in the judgment of Grouser Products to be defective in material or workmanship.
2. Grouser Products will cover the cost of parts and ground shipping at dealer invoice only.
3. Grouser Products shall have no obligation to bear the cost of labor or transportation in connection with replacement or repair of any such defective parts.

This warranty does not cover:

1. Depreciation or damage caused by normal wear, accident, improper assembly, improper adjustments.
2. Improper maintenance including lack of proper lubrication, or improper use. Including loose bolts, nuts, or fitting due to over tightening or vibration after 20 hours of operation.
3. Repairs or alterations without authorization from a Grouser Products representative.
4. Grouser Products shall have no liability if the equipment has been altered or reworked without the written authorization of Grouser Products.

Grouser Products' parts, which are furnished under this warranty and properly installed, shall be warranted to the same extent as the original parts under this warranty if, and only if, such parts are found to be defective within the original warranty period covering the original equipment.

NO EMPLOYEE OR REPRESENTATIVE OF GROUSER PRODUCTS IS AUTHORIZED TO CHANGE THE WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY.

Contact Us

As always, if you have any questions about your system or other products made by Grouser, feel free to contact us.



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