



Versatile DeltaTrack

Ag Pro Undercarriage

Installation Instructions

For Models:

Versatile DeltaTrack: 450DT, 500DT, 520DT, 530DT
550DT, 570DT, 580DT, 610DT, 620DT

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.



Serial Number Location

Note:

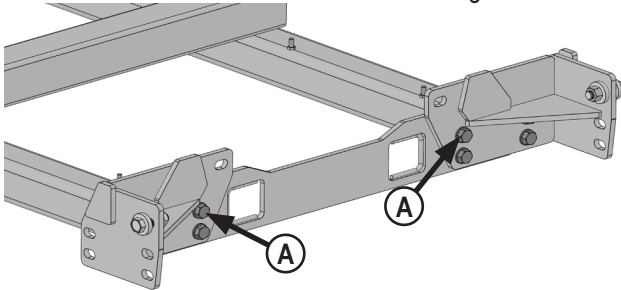
- Read all instructions prior to performing installation.
- When installing hardware, only finger tighten until all hardware is in place.
- A full diagram of the assembly with the full list of parts is on pages 6-7.
- Unstrap and remove any components that are attached for shipping.
- The tracks may need to be rotated up or down to gain better access at some bolting locations



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

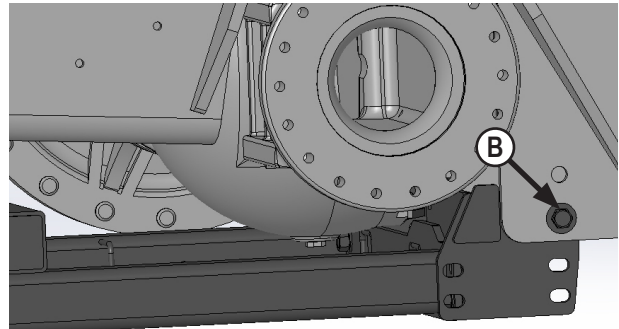
Installation

1. If applicable, remove front weights, toolboxes, and tow cable holder from front of tractor. Tow cable can be reinstalled later with the undercarriage.
2. Remove the front cover on the undercarriage.



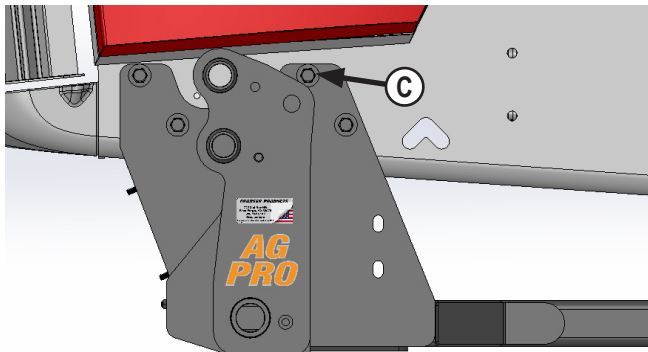
3. Attach the rear brackets to the rear of the undercarriage with 8 - 3/4" x 2" bolts, 16 - 3/4" flat washers, and 8 - 3/4" nuts (A).
4. Position undercarriage under tractor and center on the frame of the tractor.

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

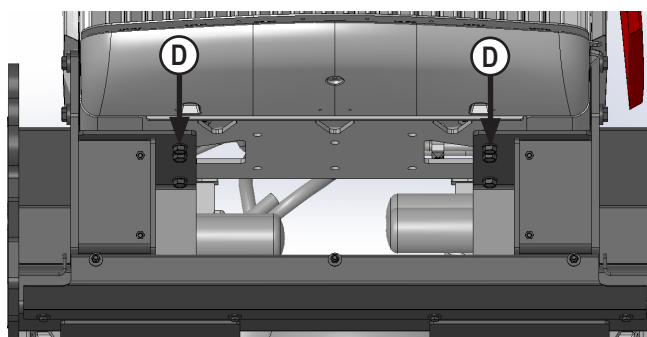


5. Raise the rear of the undercarriage and attach the rear bracket to the frame of the tractor behind the front axle with 2- 20mm x 70mm bolts, 4 - 3/4" ID thick washers, and 2 - 20mm nuts (B).
6. Raise the front of the undercarriage until the holes line up with the holes on the tractor.

NOTE: Add shims between the undercarriage and the tractor frame to reduce any gap if necessary. Use shims until there is a gap of 1/16" or less on the front. See attached diagram for the proper location and orientation of each shim. Do Not put all of the shims on one side of the undercarriage.



7. Install 8 - 20mm x 70mm bolts, 8 - 3/4" ID thick washers, shims if necessary, 8 - 3/4" flat washers, and 8 - 20mm nuts into the front side holes of the undercarriage and tractor frame (C).



NOTE: If tow cable bracket was equipped, reinstall the bracket when installing the front 6 vertical bolts. See Page 5 for more hardware and installation information.

8. Attach the front of the undercarriage to the tractor frame with 6 - 20mm x 70mm bolts, 12 - 3/4" flat washers, and 6 - 20mm nuts. Insert the bolts from the bottom (D).

9. Push the undercarriage back until the rear brackets are pushing up against the tractor frame.

10. Torque the rear bracket 20mm bolts to 432 ft-lbs (B).

11. Torque the rear bracket 3/4" bolts to 257 ft-lbs (A).

12. Torque the front vertical 20mm bolts to 432 ft-lbs (D).

13. Torque the side 20mm bolts to 432 ft-lbs (C).

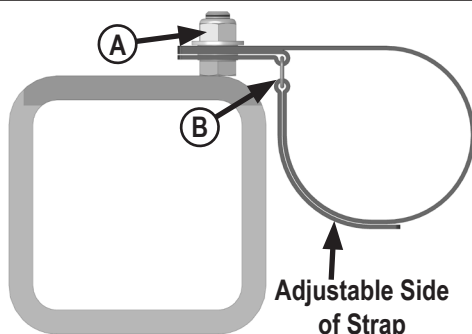
14. Reinstall the front cover with 4 - 1/2" washers and 4 - 1/2" nuts.

NOTE: Installer is responsible to route hoses in a practical manner. The hoses need to be routed away from sharp and moving objects and need to be secure. Install all hoses when assembling the lift system in the Owner's Manual and Parts Book Refer to Page 4 for some hose routing pictures.

Assembling Lift Components

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

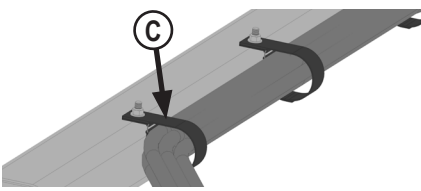
Hose Routing



1. Attach a velcro hose strap on every bolt along undercarriage with a 3/8" flange nyloc nut (A). Assemble strap with the metal loop on bottom side as shown (B). Keep straps open.

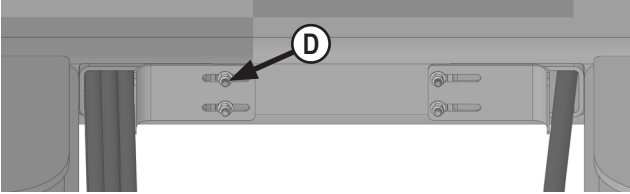
NOTE: Orientation of velcro strap is important and is shown in photo.

NOTE: Quantity of hoses is dependent on which blade system is being used.



2. Route hoses along undercarriage tubes and secure with velcro straps (C).

NOTE: While grouping hoses together, do not cross hoses over each.

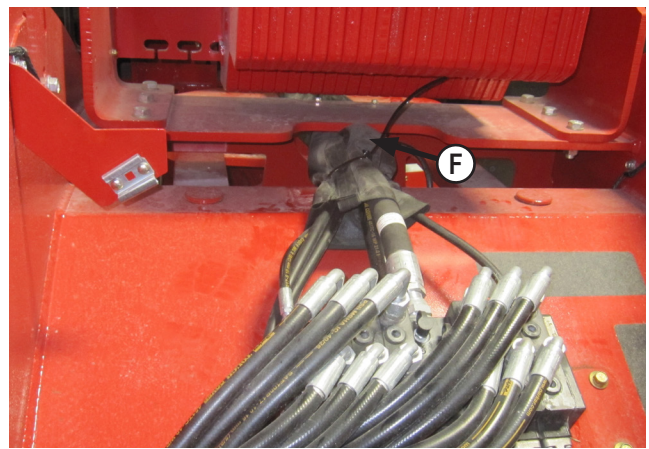


3. Attach hose cover plates to undercarriage with 4 - 3/8" flange nyloc nuts (D). Slide plates until snug against hoses and tighten nuts.

NOTE: While grouping hoses together, do not cross hoses over each.

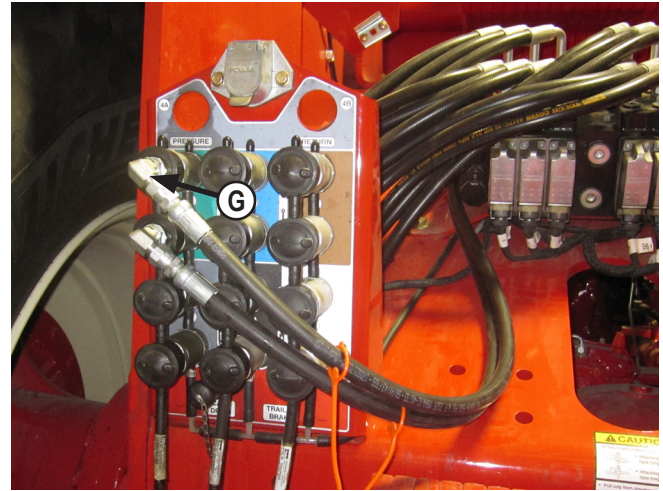


4. After routing the hoses through the undercarriage, route in the same location as the tractor's hoses (E). Replace zip ties if you run the hoses in the tractor's original hose cordura.



5. Exit the rear frame at the center of the frame as shown in the picture (F).

6. Use zip ties to attach hoses, where necessary, to avoid rubbing and pinch areas.



7. After installing the male couplers, plug each set into a set of rear SCV's (G).

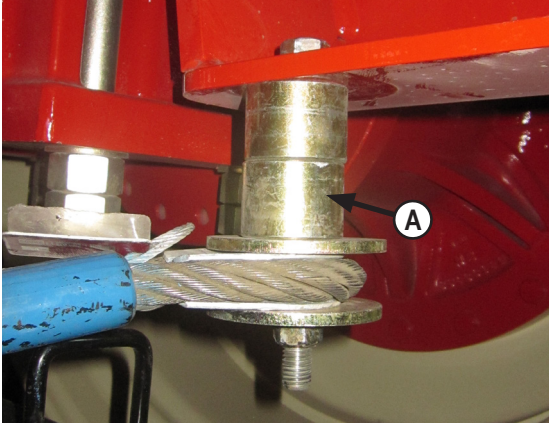
9. Perform an articulation check to make sure hoses do not get pulled when fully articulated. Make adjustments and allow adequate slack if necessary.

Maintenance

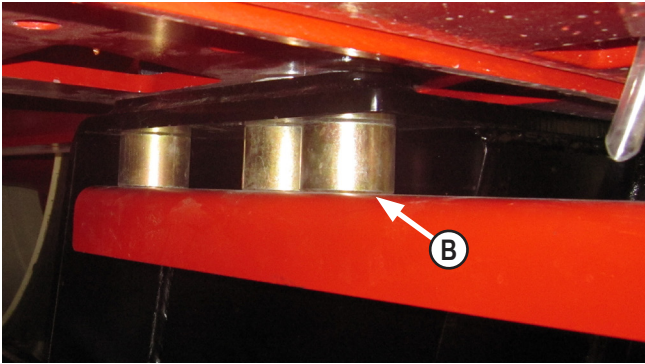
1. After first 8 hours of use, re-torque all bolts.
2. Check all fasteners regularly to ensure proper operation of equipment.
3. Inspect all equipment for existing or potential damages every 10 hours or less.
4. Make sure all non-rotating pins are secured properly.
5. Lubricate all joints with high quality grease.

Tow Cable Installation

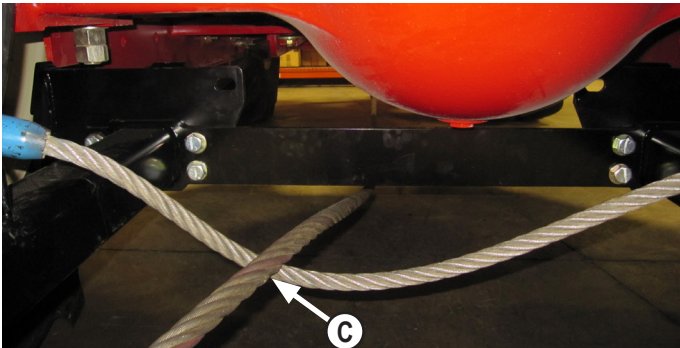
Note: Your undercarriage may vary slightly from the one shown in the pictures below, but the same installation procedure will be compatible.



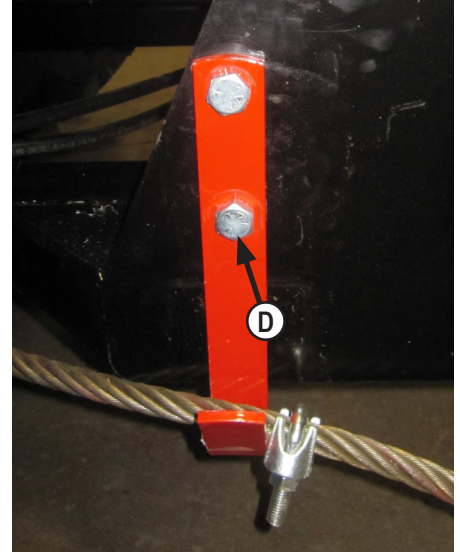
1. Add 2 spacers in between the cable holder and the tractor frame by the front tires. Use a 5/8" x 6" bolt (PN: 16-20200), 2 - 5/8" washers (PN: 57-20746) and a 5/8" top lock nut (PN: 70-20646) on each side (A).



2. Install the front cable support bracket at the front of the undercarriage. Install with 3 spacers on each side in between the undercarriage and the bracket. Use 3 - 20mm x 120mm (PN: 16-2489) to install the bracket and undercarriage. Use the same washers and nuts from Step #8 on Page 3 (B).



3. Route the cable underneath the undercarriage, then over the cable support and under the undercarriage on the right side (C).



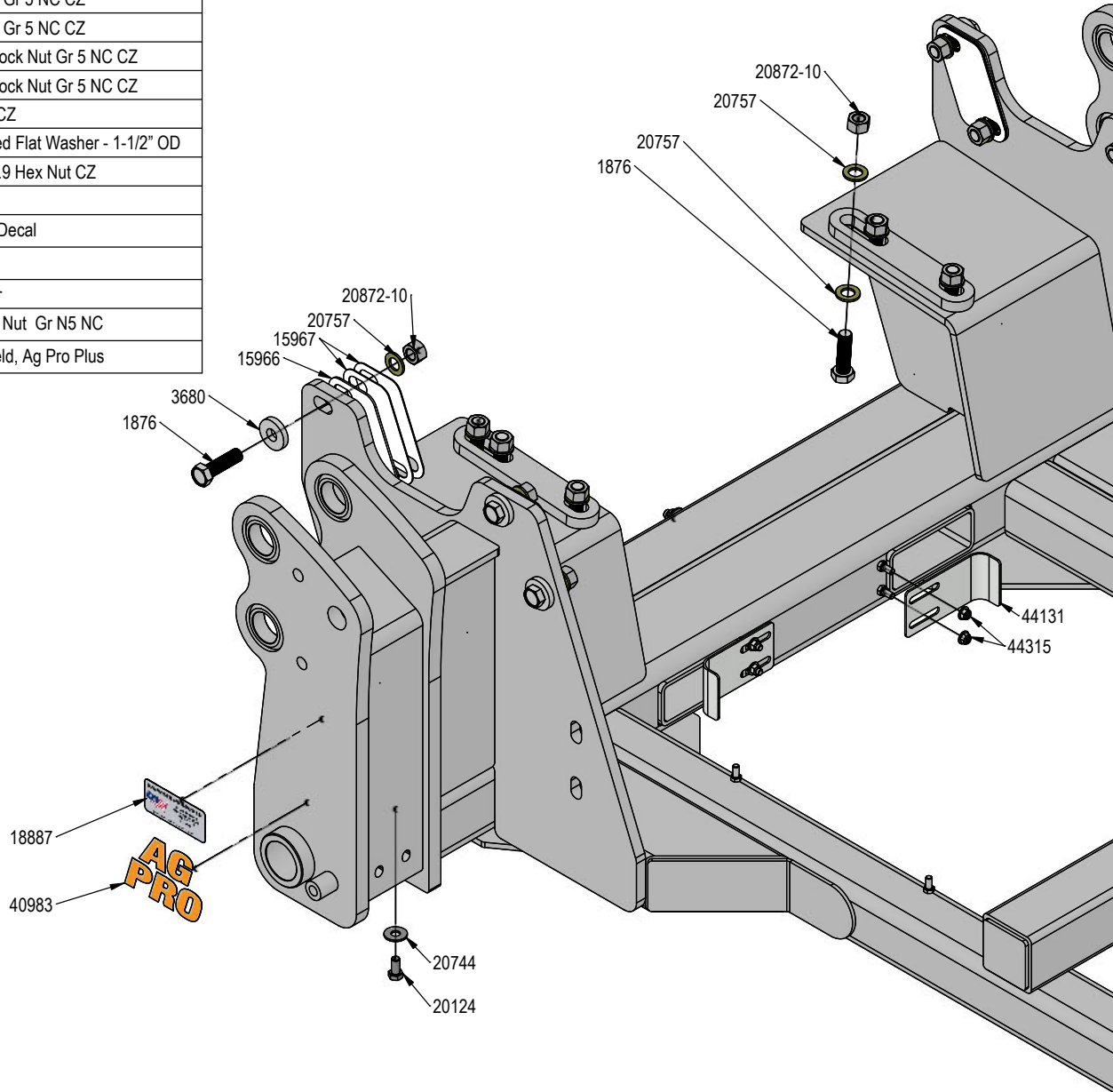
4. Install the original bracket to side of undercarriage with 2 - 3/4" x 2" bolts (PN: 16-20218) and 2 - 3/4" nuts (PN: 70-20607) (D). Cable clamp is installed in Step #6.

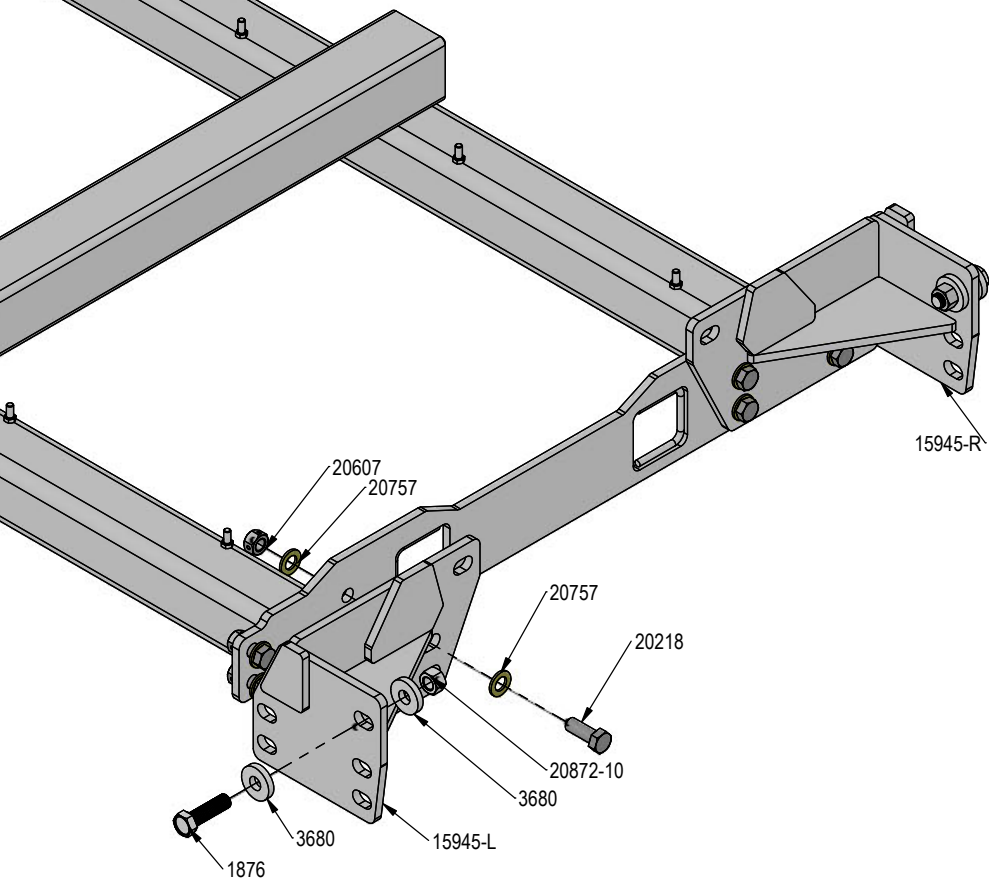
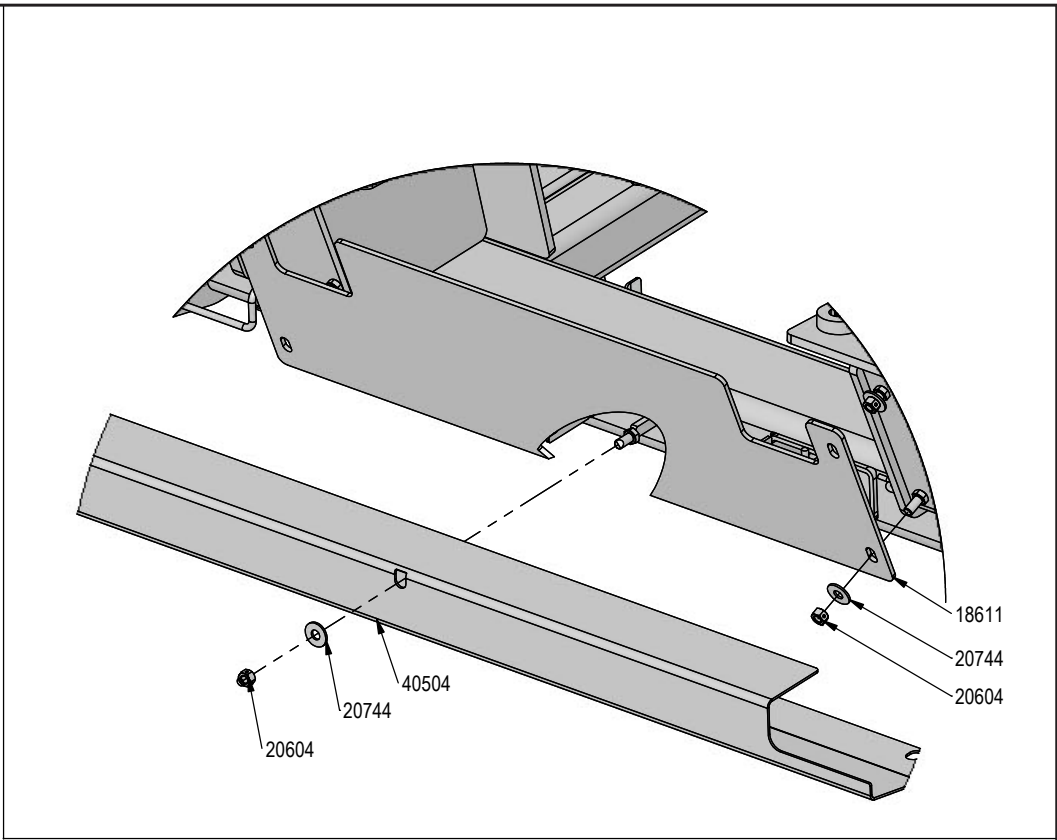
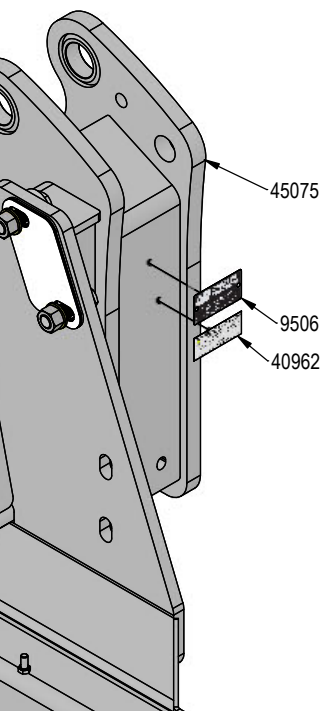


5. Finish routing the cable under lift frame and up over cable bracket. Attach to the bracket with the original hardware (E).

6. Pull the cable so there is some slack at the front under the lift frame as shown in the picture above. Then put a cable clamp up by the side bracket as shown in the picture from Step #4 to keep the cable in place.

QTY.	PART NO.	DESCRIPTION
16	1876	20mm x 2.5mm x 70mm Hex Bolt Gr 10.9
12	3680	0.75" ID x 2.00" OD x .375" Heavy Washer
1	9506	Grouser Dozer Metal Serial Tag
1	15945-L	Adapter Bracket
1	15945-R	Adapter Bracket
4	15966	Versatile T4 Shim Plate (.125")
8	15967	Versatile T4 Shim Plate (.06")
1	18611	Plate, Cover
1	18887	Grouser Name Plate Decal - Made in USA
4	20124	1/2" X 1" Hex Bolt Gr 5 NC CZ
8	20218	3/4" X 2" Hex Bolt Gr 5 NC CZ
5	20604	1/2" Hex Center Lock Nut Gr 5 NC CZ
8	20607	3/4" Hex Center Lock Nut Gr 5 NC CZ
9	20744	1/2" Flat Washer CZ
36	20757	3/4" SAE Hardened Flat Washer - 1-1/2" OD
16	20872-10	M20-2.5 Class 10.9 Hex Nut CZ
1	40504	Plate, Cover
1	40962	Warning Prop 65 Decal
2	40983	Ag Pro
2	44131	Plate, Hose Cover
4	44315	3/8" Nyloc Flange Nut Gr N5 NC
1	45075	Undercarriage Weld, Ag Pro Plus





DWG. NO.: 45075-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.



755 2nd Ave NW - West Fargo, ND 58078
+1 701-282-7710 | info@grouser.com
www.grouser.com