

Installation Instructions



Verti-Till Ripper VT 03 Hyddepth Convert to Mech Update

Used with:

- 5, 7 and 9 Shank Verti-Till Ripper



When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

General Information

These instructions explain how to install the VT 03 Hyddepth Convert to Mech. *This is an update to convert the first year Verti-Till Rippers from a hydraulic depth control to a mechanical depth control.*

These instructions apply to:

596-139A VT 03 Hyddepth Convert to Mech

Manual Update

Refer to the Verti-Till Ripper operator's manual for detailed information on safely operating, adjusting, troubleshooting and maintaining the mechanical depth control. Refer to the parts manual for part identification.

596-098M Operator's Manual
596-098P Parts Manual

Before You Start

Page 5 is a detailed listing of parts included in the VT 03 Hyddepth Convert to Mech package. Use this list to inventory parts received.

Tools Required

- Basic hand tools
- Welder

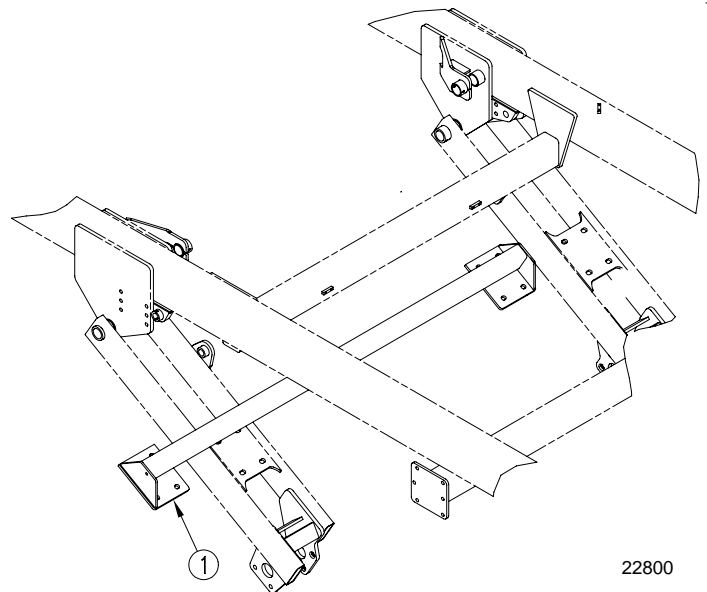
Definitions

Right-hand and left-hand as used in this manual are determined by facing the direction the machine will travel while in use unless otherwise stated.

Assembly Instructions

Refer to Figure 1

1. Raise Verti-Till Ripper and install transport locks on the transport cylinders. Place tractor in park, turn off ignition and remove the key before performing update.
2. Remove the old wheel arm torque tube (1). Save the mounting hardware for reuse.



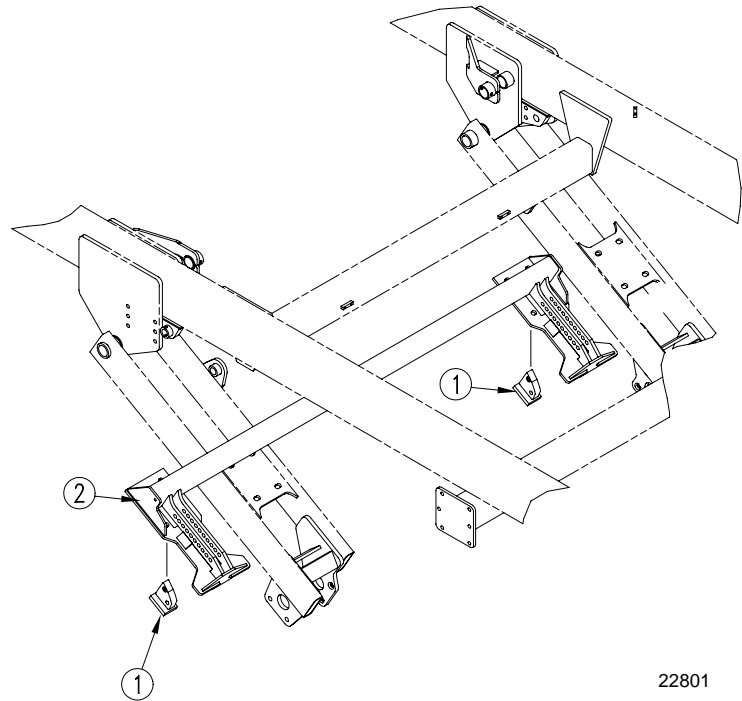
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Figure 1
Remove Old Wheel Arm Torque Tube

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Refer to Figure 2

3. Install the depth stop lower bumpers (1) through the slot in the bottom of the torque tube depth stop weldment (2). Orientate the lower bumpers (1) so the taper is facing towards the front of the implement. Allow the lower bumpers (1) to slide to the front of the channels in the torque tube depth stop weldment (2).
4. Slide the depth stop lower bumpers (1) up and down in their slots to check for binding. If binding occurs it will be necessary to remove the bumper and sand or file to remove any paint or burrs which may limit travel in the slot.

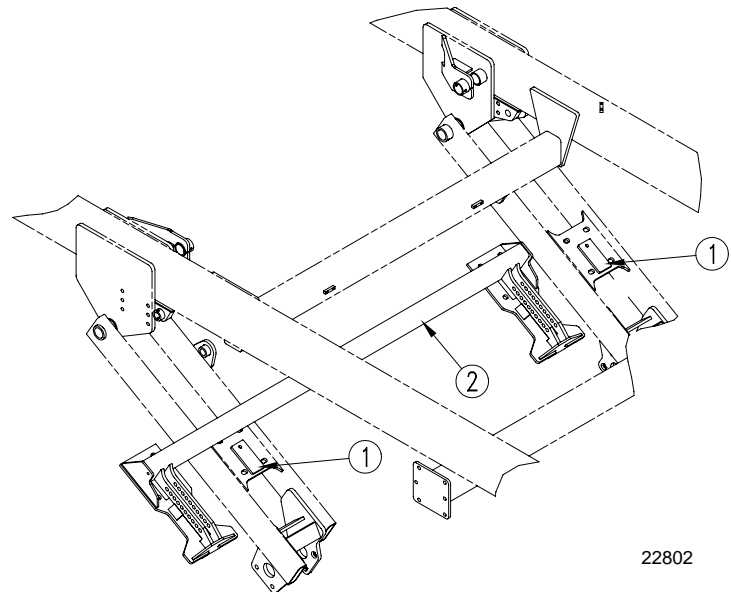


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Figure 2
Depth Stop Lower Bumper

Refer to Figure 3

5. Place the flat filler bars (1) on the mounting plates for the torque tube depth stop weldment (2). Orientate the bars (1) with the holes towards the top of the implement.
6. Place the torque tube depth stop weldment (2) on the mounting plates trapping the flat bars (1) in the slots where the lower bumpers were installed in step 3 above.
7. Fasten the torque tube depth stop weldment (2) to the mounting plates using the hardware removed in step 2 on page one.



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Figure 3
Flat Bar

Refer to Figure 4

8. Clamp the bumper sub weldments (1) to the implement frame directly above the torque tube depth stop weldment. Orientate the bumper (1) with the taper facing towards the rear of the implement.

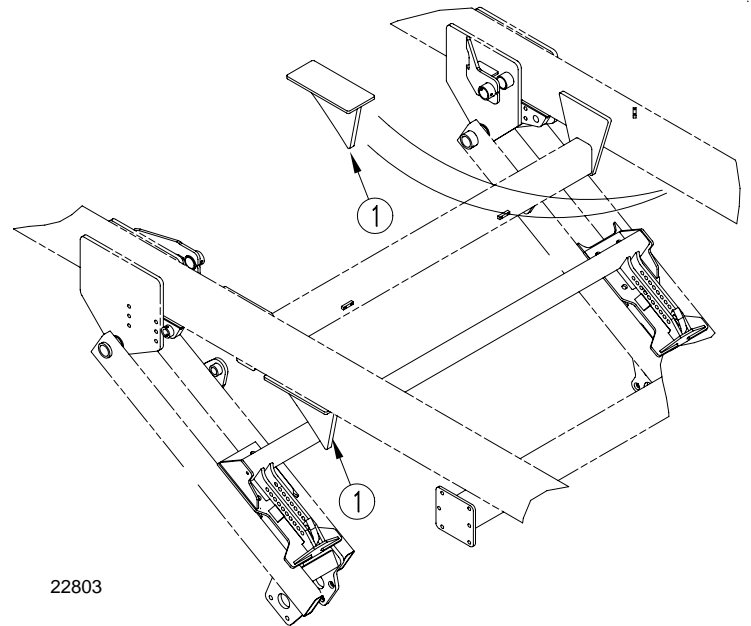


Figure 4
Bumper Sub weldment

Refer to Figure 5

9. Place the bumper (1) so the inside surface is 2 1/2" from the inside surface of the frame tube. To assure this use the weld gage (2). Slide the gage (2) along the entire surface of the bumper (1) making sure the bumper is straight with the frame.
 10. Tap the bumper (1) forward or backward until the front surface of the base plate measures 32 1/2" from the inside surface of the forward cross tube of the implement frame.
 11. Recheck the placement of the bumper (1) with the weld gage (2) making sure the bumper is straight. Make sure the clamp is tight and then recheck measurements again.
 12. Tack weld the bumper (1) to the implement frame in several places. Place the welding ground as close to the welding area as possible, preferably on the bumper (1) itself. This will assure that no arcing will take place through any bearings or pivot points.
 13. Remove the transport locks and lower the unit down to check for clearance and function.
- NOTE:** It may be necessary to adjust the hydraulic stop paddle to a deep setting to allow implement enough travel to check for clearance.
14. Raise implement and reinstall the transport cylinder locks.
 15. Finish welding the bumpers to the frame. Weld along each side and across the front and back of each bumper.
 16. After the weld has cooled, repaint the surface with the spray paint provided with the kit.

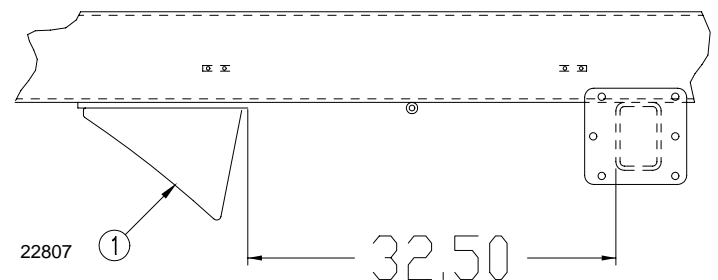
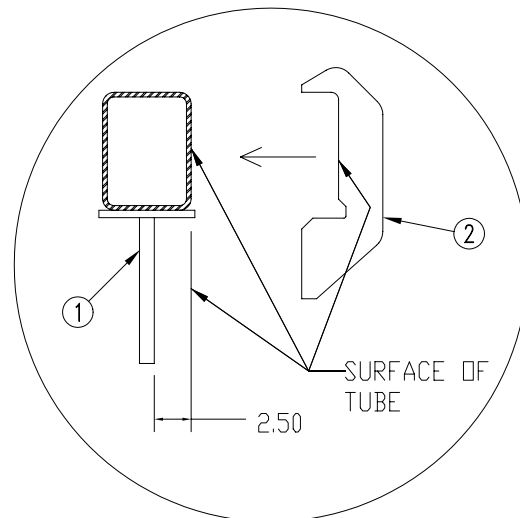


Figure 5
Welding Placement

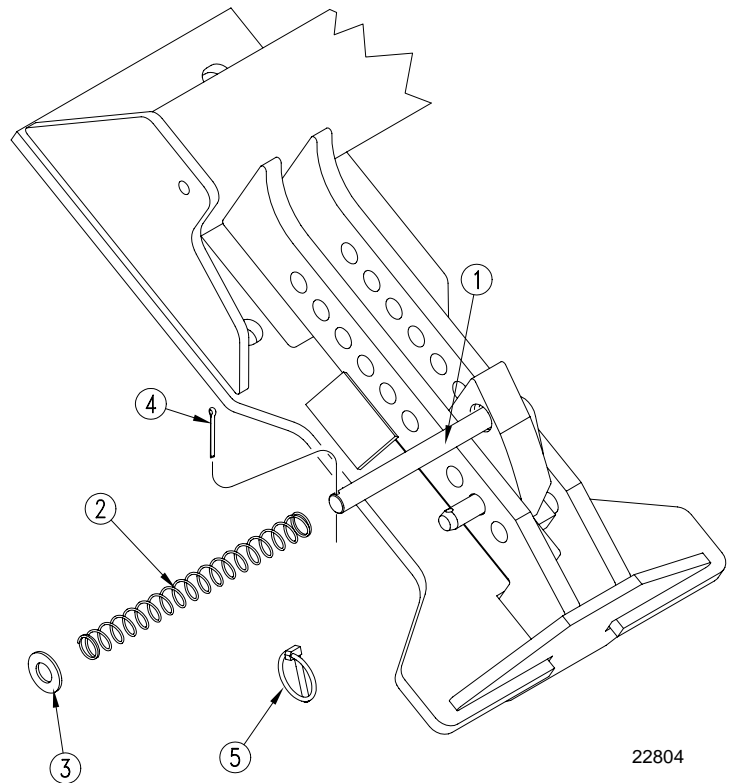
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Refer to Figure 6

17. Insert the long rod, of the spring loaded pin (1), into the upper hole of the lower bumper and the short end through one of the holes in the depth stop weldment. Insert the pin from the center of the implement going out.
18. Slide the spring (2) over the long rod and add the flat washer (3). Hold spring (2) and flat washer (3) in place with cotter pin (4).
19. Insert the lynch pin (5) through the hole in the short rod.

NOTE: To adjust the depth stop pull the spring loaded pin (1) towards the center of the implement and slide the stop up or down and reinsert the shorter pin back into one of the holes.

When adjusting the depth of the implement make sure and set the depth stops on both sides of the implement in the same hole.



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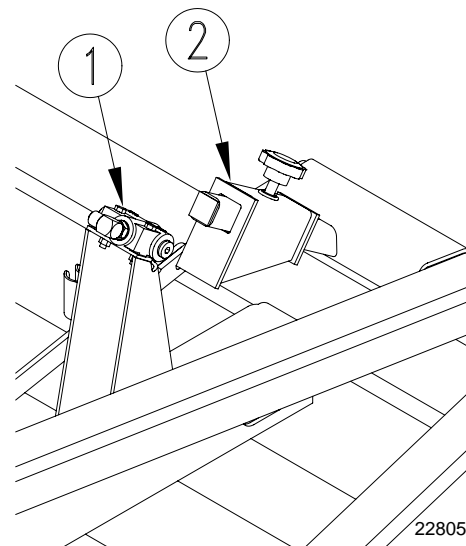
Refer to Figure 7

20. Place the tractor lever for the lift circuit in the float position to relieve hydraulic pressure.

WARNING!

Escaping fluid under pressure can have sufficient pressure to penetrate the skin. Check all hydraulic lines and fittings before applying pressure. Fluid escaping from a very small hole can be almost invisible. Use paper or cardboard, not body parts, and wear heavy gloves to check for suspected leaks. If injured, seek medical assistance from a doctor that is familiar with this type of injury. Foreign fluids in the tissue must be surgically removed within a few hours or gangrene will result.

21. Disconnect the hydraulic hoses from the hydraulic depth control (1). Connect the ends of the two hoses together with the 3/4" x 3/4" MJIC fitting.
22. Remove the hydraulic depth control (1) and depth stop paddle (2) from the implement.



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Figure 7
Hydraulic Depth Control

596-139A VT 03 Hyddepth Convert to Mech

Your kit includes:

Qty.	Part No.	Part Description
2	596-116H	DEPTH STOP LOWER BUMPER
1	596-117H	TORQUE TUBE DEPTH STOP WLD
2	596-140H	VT 03 FIELD UPD BUMPER SUB
1	596-141M	MANUAL VT 03 HYDDEPTH CONV
2	596-187D	PIN 5/8 SPRING LOADED U
2	596-189D	BAR FLT HR 1/2X3X6.38
1	596-224D	VT MECH DEPTH FIELD WELD G
2	804-021C	WASHER FLAT 5/8 SAE PLT
2	805-109C	PIN COTTER 1/8 X 1 1/4 PLT
2	805-240C	PIN LYNCH 3/16 X 1 9/16 LO
2	807-246C	SPRING COMP .796ODX9.0LGX.
1	811-430C	AD 3/4MJIC 3/4MJIC
1	821-001C	PAINT GP GREEN SPRAY CAN