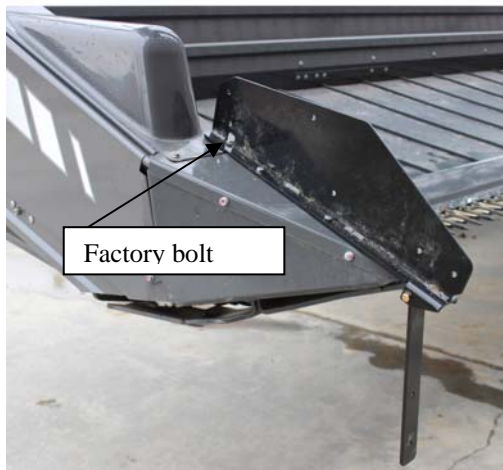


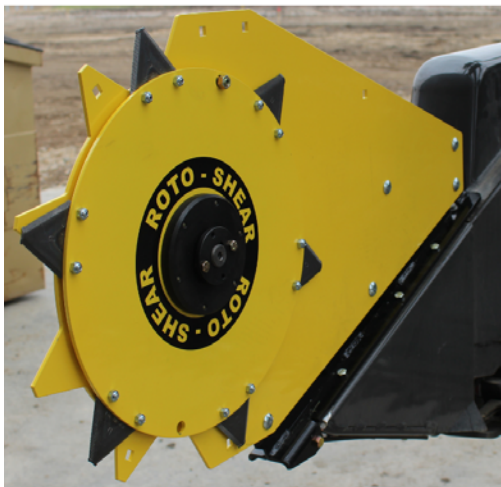


## P/N# MF53HK25 / MF53HK30 / MF53HK35 / MF53HK40 Roto-Shear MF5300 Hose Kit Assembly Instructions

### Assembly:



1. You will need to cut off the factory divider rod on the end of the divider board to allow installation of the brackets.
2. Remove the upper bolt to allow you to set the mounting bracket onto the divider board. Re-install the bolt and leave the spacer underneath the bracket.
3. Align the mounting bracket so that it points directly forward on the divider board and check that the bottom brace matches up to the support underneath the brace. Once alignment is correct you can mark holes to drill for installation of the 5/16 x 1" bolts. You be able to drill and install a minimum of 5 bolts in the bracket.
4. Next you can hold the bottom mount bar up and mark those holes.
5. Install the 3/8" x 1" bolts in the bottom bar



6. After installation of the brackets you can install the Roto-Shear Sunrise onto the mounting bracket with 5 carriage bolts (3/8" x 1") per bracket supplied with the common pkg
7. Next install the collector rod to the outside with the 3/8" x 1-1/4" Carriage head flat bolt that comes with in the front most hole and use a 3/8" x 1" carriage bolt that came with the Rotoshear common for the other hole.



8. Next you will need to cut holes into the top of the guard to allow the hoses to come out to the Rotoshears. We have supplied trim to be used around the edge of the holes to protect the hoses when they come through.



9. Remove the flow control valve and install the fittings into it as required. You will put a 12MB-12MJ into the "IN" port, a 12MB-12MJ90 into the "CF" port and a 12MBL-12MJT into the "EX" port. You will add fitting #26002-81 (12MJ-12FJX90) to the bottom side of the tee fitting as well.
10. You will install this on the left side header in an area to allow access to connect the hoses. You will need to mark and drill holes through the divider board to fasten it using the supplied 1/4" x 2-1/2" bolts with locknuts.



11. Using the braces attach the top of the brace to the rearward bolt on the collector rod.
12. Applying outward pressure to the Rotoshear so that you have a little more clearance to the reel mark and drill a hole in the side of the divider board and attach the bottom of the brace with a 3/8" x 7/8" bolt and lock nut.
13. Using the hose #26002-87 (70" long c/w 10MB and 12FJX ends) install the 10MB end into the top port on the Left Rotoshear motor and route the hose through the drilled access hole to the "CF" port on the flow control valve previously installed.
14. Using fitting #26002-88 (10MB-12MJ) install into the bottom port of the motor as well as both ports in the other Rotoshear motor.
15. Using fitting #26001-69 (4MB-4MJ90) install into the end of both Rotoshear motors.
16. Using hose #26002-80 (90" long c/w 4FJX and 6FJX ends) install the 4FJX end onto the end of the left Rotoshear motor and route the hose through the drilled access hole to the hydraulic block located inside the panel near the back edge of the header (on the left side, do not connect yet)



17. Using the 2 fittings #6FJXR-6MJT, remove the existing 90° elbow and install underneath them as shown to the left on the rear hydraulic block on the left side of the header
18. You can reattach the 90° elbow you just removed to the top of the tee fitting as shown to the right.
19. You can now connect the hose that you ran from the end of the Left Rotoshear motor to one of the open sides of the tee fittings.
20. The remaining spot will be connected to the end of the Right Rotoshear once that hose is run.
21. Remove the factory hose that runs from the Left Sickle motor to the Return port on the factory valve block shown on the left side. Connect this hose to the "IN" port on the flow control valve.
22. Using hose #26002-79 (32" long c/w 12FJX both ends) connect from the Return port of hydraulic valve to the "EX" port on the hydraulic valve.



23. Additional hoses are required that are specific to the width of the header as listed below. These may need to be made up if they were not ordered with your kit. See table below:
24. Hose to go from Left Rotoshear bottom port to Right Rotoshear top port are:
 

25' header	P/N#26002-91 (540" long c/w 12FJX both ends)
30' header	P/N#26002-90 (600" long c/w 12FJX both ends)
35' header	P/N#26002-89 (660" long c/w 12FJX both ends)
40' header	P/N#26002-92 (720" long c/w 12FJX both ends)
25. Hose to go from Right Rotoshear bottom port to "EX" port on the flow control are:
 

25' header	P/N#26002-93 (450" long c/w 12FJX both ends)
30' header	P/N#26002-94 (510" long c/w 12FJX both ends)
35' header	P/N#26002-95 (570" long c/w 12FJX both ends)
40' header	P/N#26002-96 (630" long c/w 12FJX both ends)
26. Hose to go from Right Rotoshear drain port to hydraulic valve block on the Left side rear drain port are:
 

25' header	P/N#26002-83 (450" long c/w 12FJX both ends)
30' header	P/N#26002-82 (510" long c/w 12FJX both ends)
35' header	P/N#26002-84 (570" long c/w 12FJX both ends)
40' header	P/N#26002-85 (630" long c/w 12FJX both ends)

After you have checked that all fittings are connected and tight you can adjust the flow control valve into the mid range and then run the unit to ensure that the Rotoshears spin in an up swing rotation and you have no leaks. Once complete you can use the rubber trim, zip ties, cable clamps and self tapping screws supplied to protect and secure all the hoses as required so that they do not interfere with the operation of the header or contact sharp edges which could damage the hoses.

## **OPERATION:**

When in operation the speed of the Rotoshears can be adjusted with the flow control valve. Operating it all the way will turn off the shears for crops where they are not required and the divider boards are to be installed.