

360 CHAINROLL®

INSTALLATION INSTRUCTIONS GERINGHOFF NORTHSTAR

360YIELDCENTER.COM

FOR QUESTIONS PLEASE CONTACT OUR PRODUCT SUPPORT TEAM AT 309-300-3120

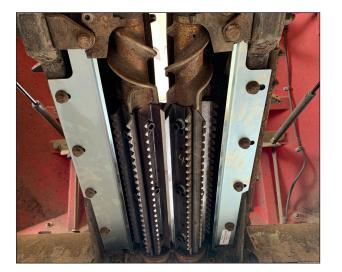
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GERINGHOFF NORTHSTAR • THREADED SHAFT



BEFORE YOU BEGIN



The following instructions are for Geringhoff rows with a <u>threaded shaft</u>. For installation instructions for rows with a non-threaded (through) shaft please refer to pages 5-7.

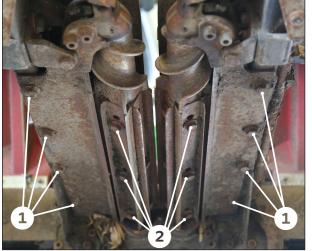
HELPFUL TOOLS

- 10 mm hex shaft driver
- 16 mm and 17 mm sockets

NEED HELP?

Call our Product Support team at 309-300-3120.

STEP 1 OEM ROLL DISASSEMBLY

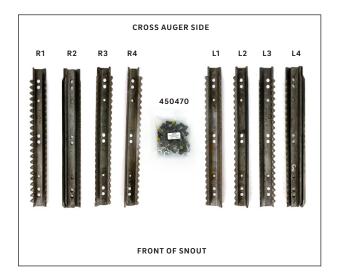


We have found the best way to install 360 CHAINROLL is by removing the residue knives and replacing the OEM roll knives with 360 CHAINROLL from the bottom side of the head.

On each row where 360 CHAINROLL will be installed, remove the four bolts (1) on each OEM residue knife. Retain these bolts for use when installing the 360 Residue Knives later in the installation process.

Remove the three bolts 2 in each OEM plate to uninstall all OEM plates on each row where 360 CHAINROLL will be installed. To gain acess to all four sides of each shaft, the rolls may need to be rotated multiple times. This hardware can be discarded.

BEFORE YOU BEGIN ASSEMBLY PLEASE NOTE



We recommend opening **only one row at a time**. Layout one bundled left kit and one bundled right kit under each row, keeping in mind that **left and right are determined from the operator's seat.**

Arrange the knives as shown in the picture above: R1 - R2 (consists of two pieces) - R3 - R4 L1 - L2 - L3 - L4 (consists of two pieces)

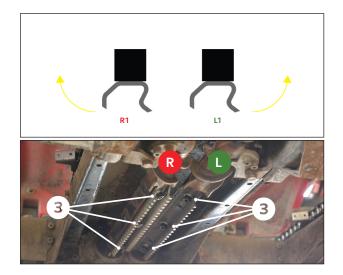
NOTE: The stamped numbers indicated the back of the knife which should be oriented towards the cross auger side of the head.

For assembly on threaded shafts, only use the hardware from **hardware kit 450470**. Hardware in kit 450471 will not be used for this type of shaft.

GERINGHOFF NORTHSTAR • THREADED SHAFT



STEP 2 INSTALL R1 AND L1



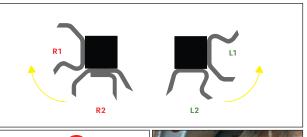
Using three of the <u>shorter</u> M12 bolts and lock washers from **hardware kit 450470** (3), install the **R1** plate on the **right roll**.

Using three of the <u>shorter</u> M12 bolts and lock washers from **hardware kit 450470 3**, install the L1 plate on the **left roll**.

Torque all three bolts on both the left and the right rolls to 100ft/lbs.

Rotate the head as it would in normal operation to access the next face of the shaft.

STEP 3 INSTALL R2 AND L2





Using three of the <u>longer</u> M12 bolts and lock washers from **hardware kit 450470** (4), install the two R2 plates on the right roll.

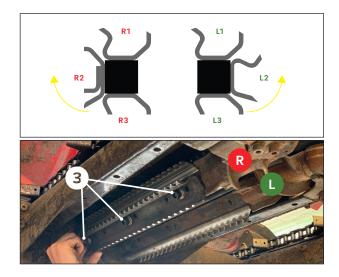
NOTE: The larger R2 plate should be installed against the shaft with the smaller R2 plate installed on the larger R2 plate. The longer M12 bolts will go through both plates.

Using three of the <u>shorter</u> M12 bolts and lock washers from **hardware kit 450470** (3), install the L2 plate on the left roll.

Torque all three bolts on both the left and the right rolls to 100ft/lbs.

Rotate the head as it would in normal operation to access the next face of the shaft.

STEP 4 INSTALL R3 AND L3



Using three of the <u>shorter</u> M12 bolts and lock washers from **hardware kit 450470** (3), install the **R3** plate on the **right roll**.

Using three of the <u>shorter</u> M12 bolts and lock washers from **hardware kit 450470**, install the L3 plate on the left roll.

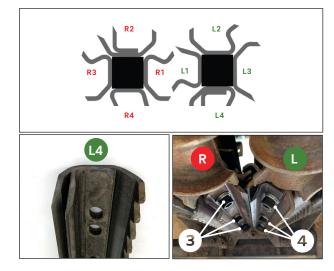
Torque all three bolts on both the left and the right rolls to 100ft/lbs.

Rotate the head as it would in normal operation to access the last face of the shaft.

GERINGHOFF NORTHSTAR • THREADED SHAFT



STEP 5 INSTALL R4 AND L4



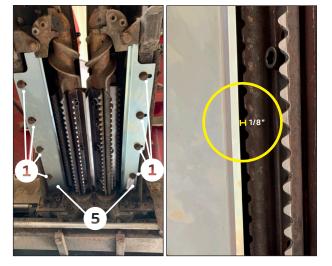
Using three of the <u>shorter</u> M12 bolts and lock washers from **hardware kit 450470 ()**, install the **R4** plate on the **right roll**.

Using three of the <u>longer</u> M12 bolts and lock washers from **hardware kit 450470** (2), install the two L4 plates on the **left roll**.

NOTE: The larger L4 plate should be installed against the shaft with the smaller L4 plate installed on the larger L4 plate. The longer M12 bolts will go through both plates.

Torque all three bolts on both the left and the right rolls to 100ft/lbs.

STEP 6 INSTALL RESIDUE KNIVES

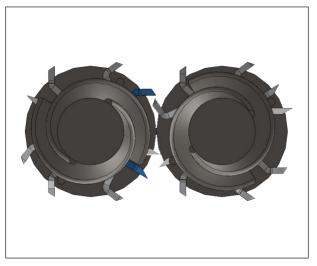


Using previously removed harware **1** install the 360 residue knives **5**.

NOTE: Before completely tighting, ensure there is approximately 1/8" gap between the residue knife and the 360 CHAINROLL plates.

Repeat steps 1-6 for the remaining rows.

INSTALLATION COMPLETE



NOTE: Ensure cutting flutes are properly timed. As long as matching knives (R1 and L1, R2 and L2, etc) are adjacent to each other and the single cutting flute goes in between dual cutting flutes on the opposite roll, the rolls should be timed correctly.

Refer to normal OEM procedure for further adjustments.

GERINGHOFF NORTHSTAR • NON-THREADED (THROUGH) SHAFT



BEFORE YOU BEGIN



The following instructions are for Geringhoff rows with a <u>non-threaded shaft</u>. For installation instructions for rows with a threaded shaft please refer to pages 2-4.

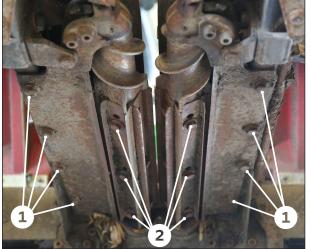
HELPFUL TOOLS

- 10 mm hex shaft driver
- 19 mm wrench
- 16 mm and 17 mm sockets

NEED HELP?

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STEP 1 OEM ROLL DISASSEMBLY

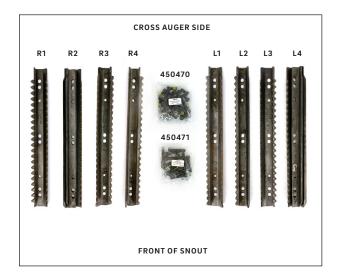


We have found the best way to install 360 CHAINROLL is by removing the residue knives and replacing the OEM roll knives with 360 CHAINROLL from the bottom side of the head.

On each row where 360 CHAINROLL will be installed, remove the four bolts (1) on each OEM residue knife. Retain these bolts for use when installing the 360 Residue Knives later in the installation process.

Remove the three bolts ② in each OEM plate to uninstall all OEM plates on each row where 360 CHAINROLL will be installed. To gain acess to all four sides of each shaft, the rolls may need to be rotated multiple times. This hardware can be discarded.

BEFORE YOU BEGIN ASSEMBLY PLEASE NOTE



We recommend opening **only one row at a time**. Layout one bundled left kit and one bundled right kit under each row, keeping in mind that **left and right are determined from the operator's seat**.

Arrange the knives as shown in the picture above: R1 - R2 (consists of two pieces) - R3 - R4 L1 - L2 - L3 - L4 (consists of two pieces)

NOTE: The stamped numbers indicated the back of the knife which should be oriented towards the cross auger side of the head.

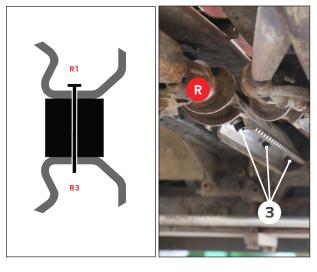
For assembly on non-threaded shafts, use the hardware from **hardware kit 450471** with the washers from **hardware kit 450470**.

GERINGHOFF NORTHSTAR • NON-THREADED (THROUGH) SHAFT



STEP 2 INSTALL R1 AND R3

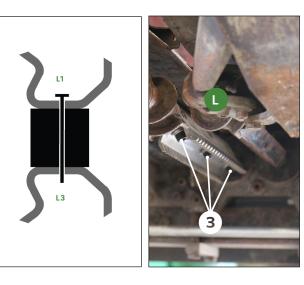
STEP 3 INSTALL L1 AND L3



Using three of the shorter <u>through</u> bolts from **hardware kit 450471 3** and three of the lock washers and flat washers from **hardware kit 450470** install the **R1** plate on the **right roll**.

On the opposite side of the right roll install the **R3** plate on the through bolts from **R1** and secure with the nuts from **hardware kit 450471**.

Torque all three bolts to 100ft/lbs.



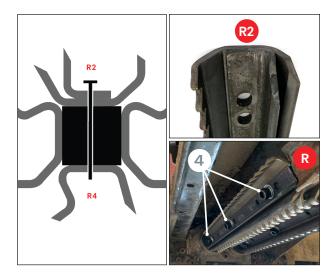
Using three of the shorter <u>through</u> bolts from **hardware kit 450471 (a)** and three of the lock washers and flat washers from **hardware kit 450470** install the L1 plate on the **left roll**.

On the opposite side of the left roll install the L3 plate on the through bolts from L1 and secure with the nuts from hardware kit 450471.

Torque all three bolts to 100ft/lbs.

Rotate the head as it would in normal operation to access the remaining faces of the shafts.

STEP 4 INSTALL R2 AND R4



Using three of the longer <u>through</u> bolts from **hardware kit 450471** and three of the lock washers and flat washers from **hardware kit 450470** install the two **R2** plates on the **right roll**.

NOTE: The larger R2 plate should be installed against the shaft and the smaller R2 plate is installed on top of the larger R2 plate.

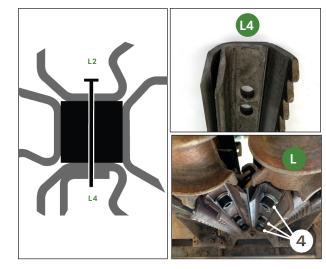
On the opposite side of the **right roll**, install the **R4** plate on the through bolt from **R2** and secure with the nuts from **hardware kit 450471**.

Torque all three bolts to 100ft/lbs.

GERINGHOFF NORTHSTAR • NON-THREADED (THROUGH) SHAFT



STEP 5 INSTALL L2 AND L4



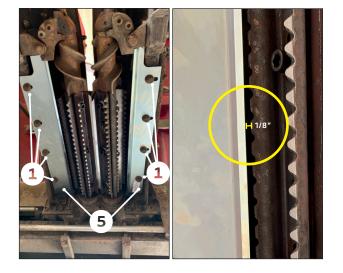
Using three of the longer <u>through</u> bolts from **hardware kit 450471** and three of the lock washers and flat washers from **hardware kit 450470** install the L2 plate on the left roll.

On the opposite side of the **left roll**, install the two **L4** plates on the through bolt from **L2**.

NOTE: The L4 plate should be installed against the roll and theL4 plate should be installed on the larger L4 plate. Secure with the nuts from hardware kit 450471.

Torque all three bolts to 100ft/lbs.

STEP 6 INSTALL RESIDUE KNIVES

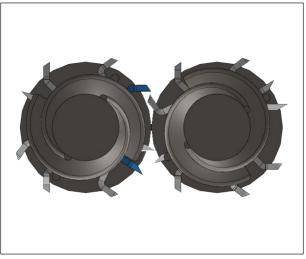


Using previously removed harware 1 install the 360 residue knives 6.

NOTE: Before completely tighting, ensure there is approximately 1/8" gap between the residue knife and the 360 CHAINROLL plates.

Repeat steps 1-6 for the remaining rows.

INSTALLATION COMPLETE



NOTE: Ensure cutting flutes are properly timed. As long as matching plates (R1 and L1, etc.) are adjacent to each other and the single cutting flute goes in between dual cutting flutes on the opposite roll, the rolls should be timed correctly.

Refer to normal OEM procedure for further adjustments.