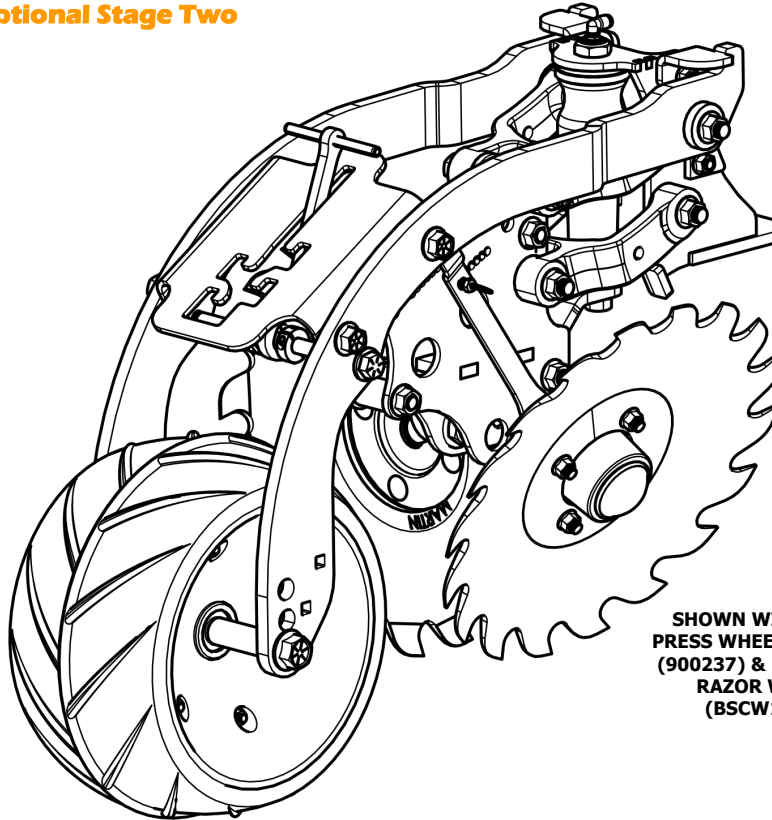


CCR Closing System

PARALLEL ARM COMPACT CLEAN RIDE CLOSING INSTALLATION INSTRUCTIONS

**CCR Closer and Optional Stage Two
Assembly**



SHOWN WITH 6 X 12
PRESS WHEEL ASSEMBLY
(900237) & 14" CUPPED
RAZOR WHEELS
(BSCW1444C)

FOR EXPLODED VIEWS,

SEE PAGES 9-11



Martin Planter Attachments

Martin Industries LLC

206 Elk Fork Road

Elkton, KY 42220

Telephone: 270-265-5817

E-Mail: martin@martintill.com

www.martintill.com



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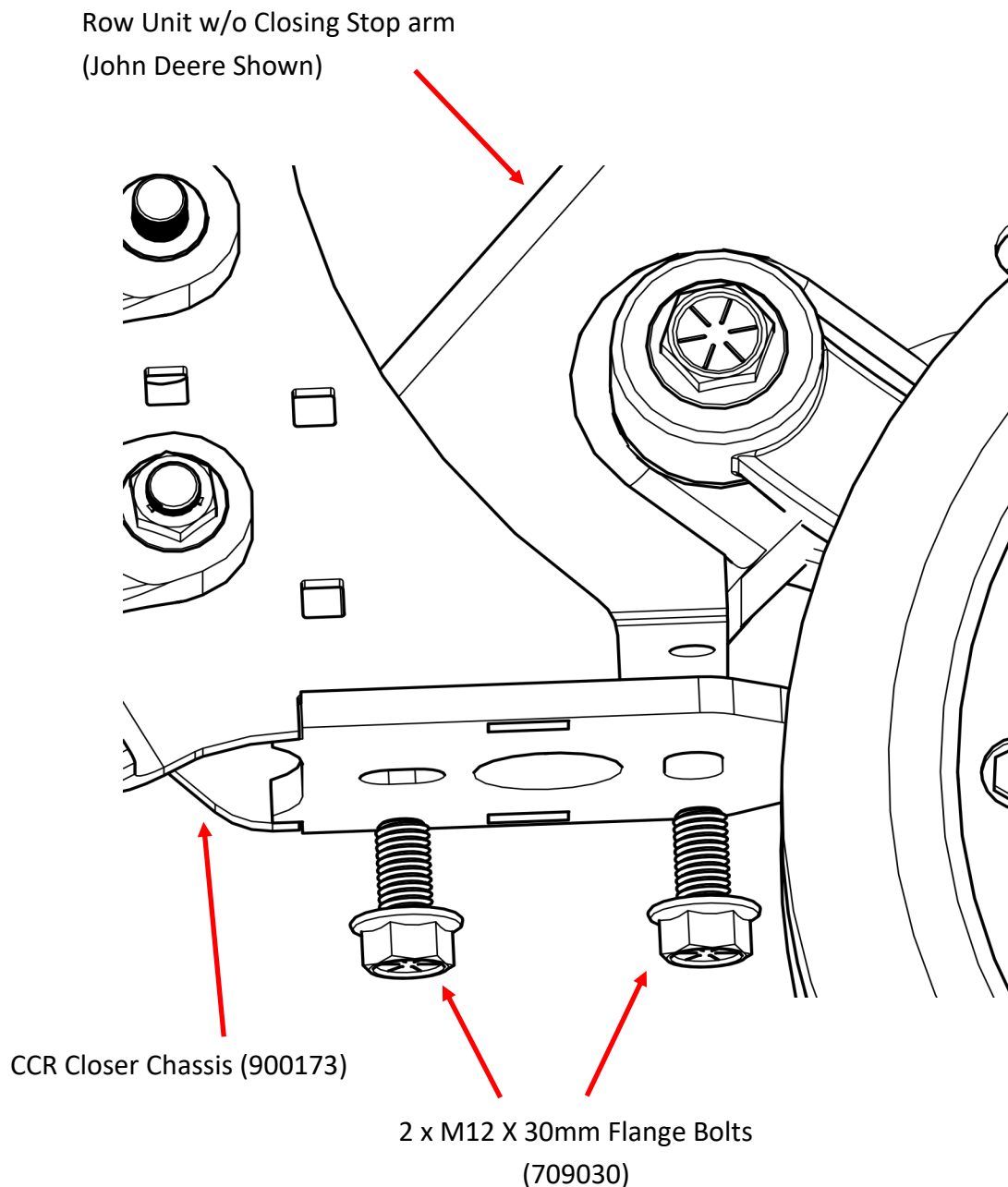
STEP 1 : ATTACH THE MOUNT TO THE PLANTER

Before installing CCR Closer Assembly, remove the factory Closing wheel arm and cast mounting/pivot block (John Deere closing stop arm (A28135) for example).

For John Deere planters, line up the mount plate to the bottom of the closing frame as shown below. Insert 1 M12x30 bolt into hole closest to the gauge wheel and fasten, but do not fully tighten.

Ensure that the Closing system is centered relative to the gauge wheels by viewing from the back.

Insert second bolt into slot furthest away from gauge wheels and tighten both bolts to secure. (Torque to 143 lbs.)



STEP 2 : DETERMINE THE BEST WHEEL CONFIGURATION FOR YOUR SOIL CONDITIONS

Three different wheel configurations are shown from the bottom views.

OPTION A: OFFSET (Recommended)

ONE WHEEL IN REAR HOLE

ONE WHEEL IN FRONT HOLE

The staggered configuration allows the wheels to turn more easily in loose soil and prevents buildup between the wheels.

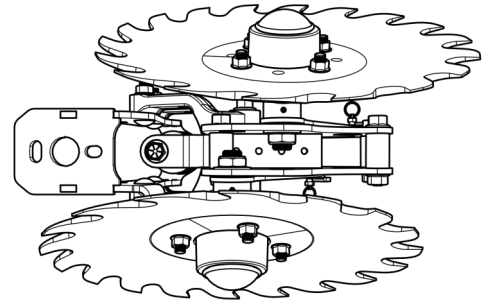
With this staggered configuration, we suggest running the left wheels in the rear hole on half of the planter and the right wheels in the rear hole on the other half of the planter (when viewed from behind).

OPTION B: IN LINE

BOTH WHEELS IN FRONT HOLES OR REAR HOLES

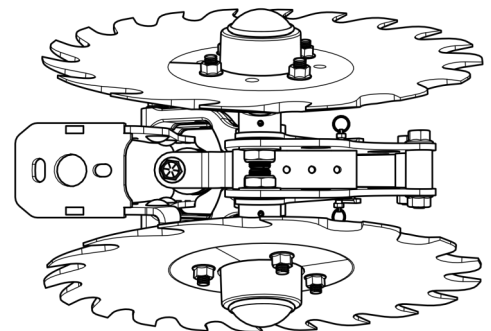
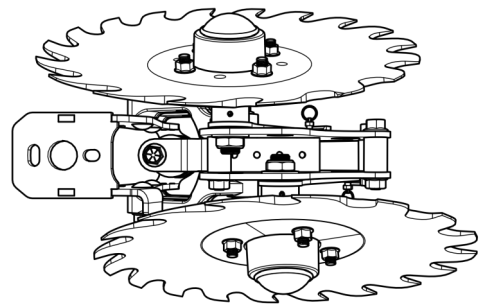
RIGHT HAND

LEADING



LEFT HAND

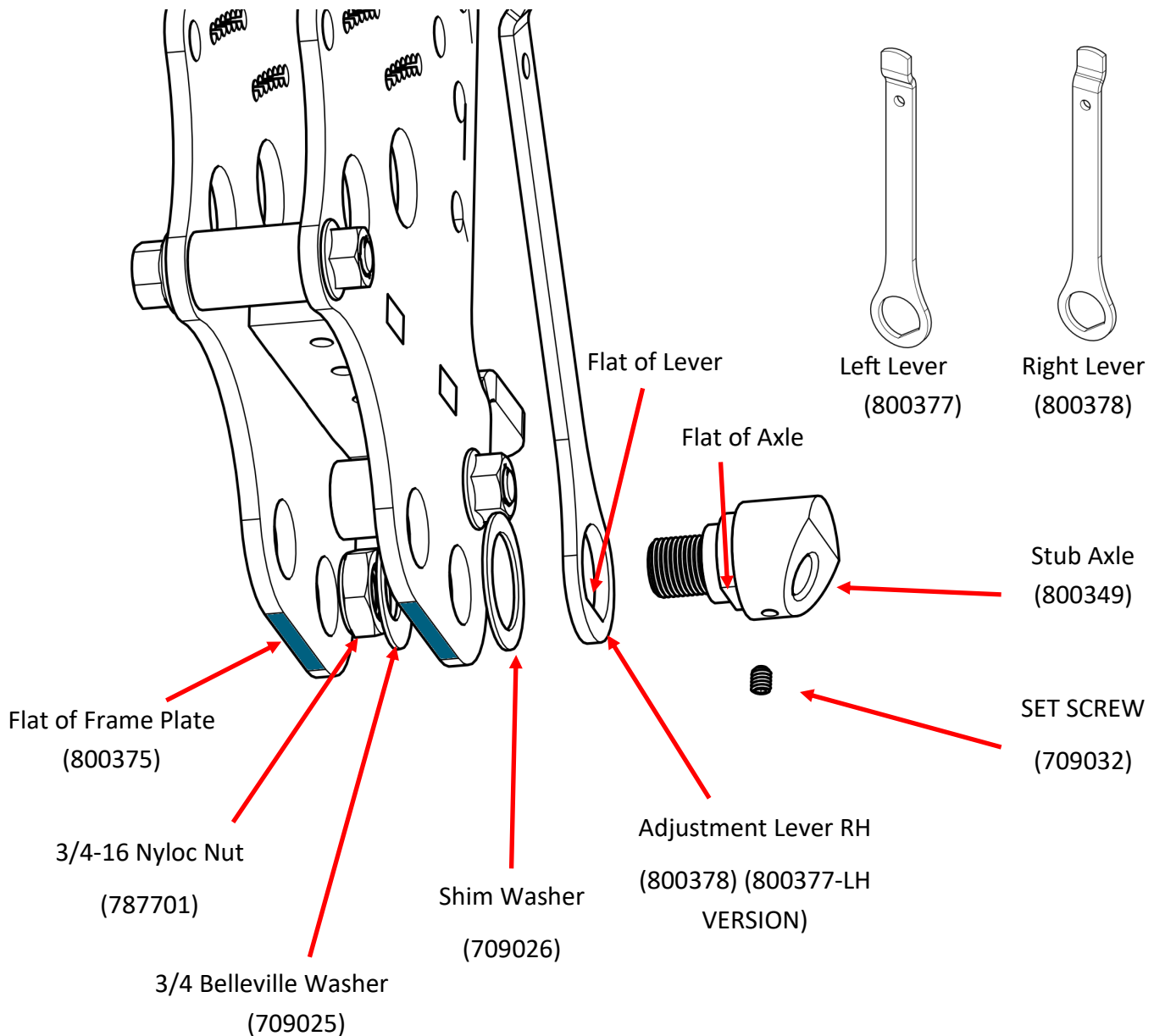
LEADING



STEP 3 : INSTALL AXLES TO FRAME

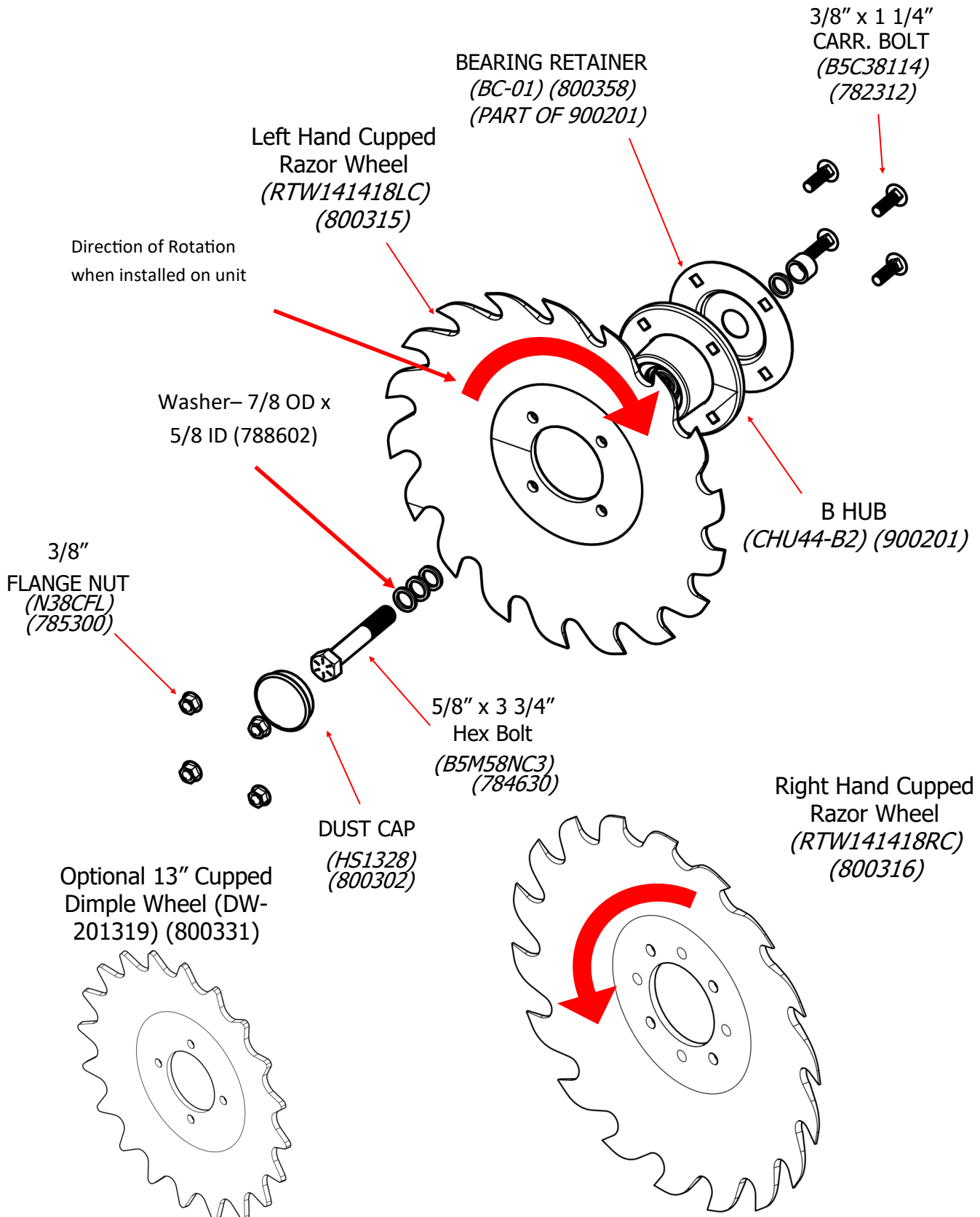
- 1) Apply light film grease to Axle (800349), Lever, Shim washer (709026), and Belleville Washer (709025).
- 2) Install axle and lever arm to the Frame using Shim washer, Belleville washer, and 3/4 Nyloc Nut (787701) as shown below.
- 3) Do not over torque the nyloc nut to the axle. Tighten until lever has resistance and stop.
- 4) Thread in 1/4-20 Set Screw once wheels are installed to prevent bolt from unthreading especially on left side.
- 5) Repeat for opposite side.

Note: The Flat of the lever and axle should be parallel with the bottom of the frame plate (800375) as shown below, and the lever should be pointing away from the gauge wheels.



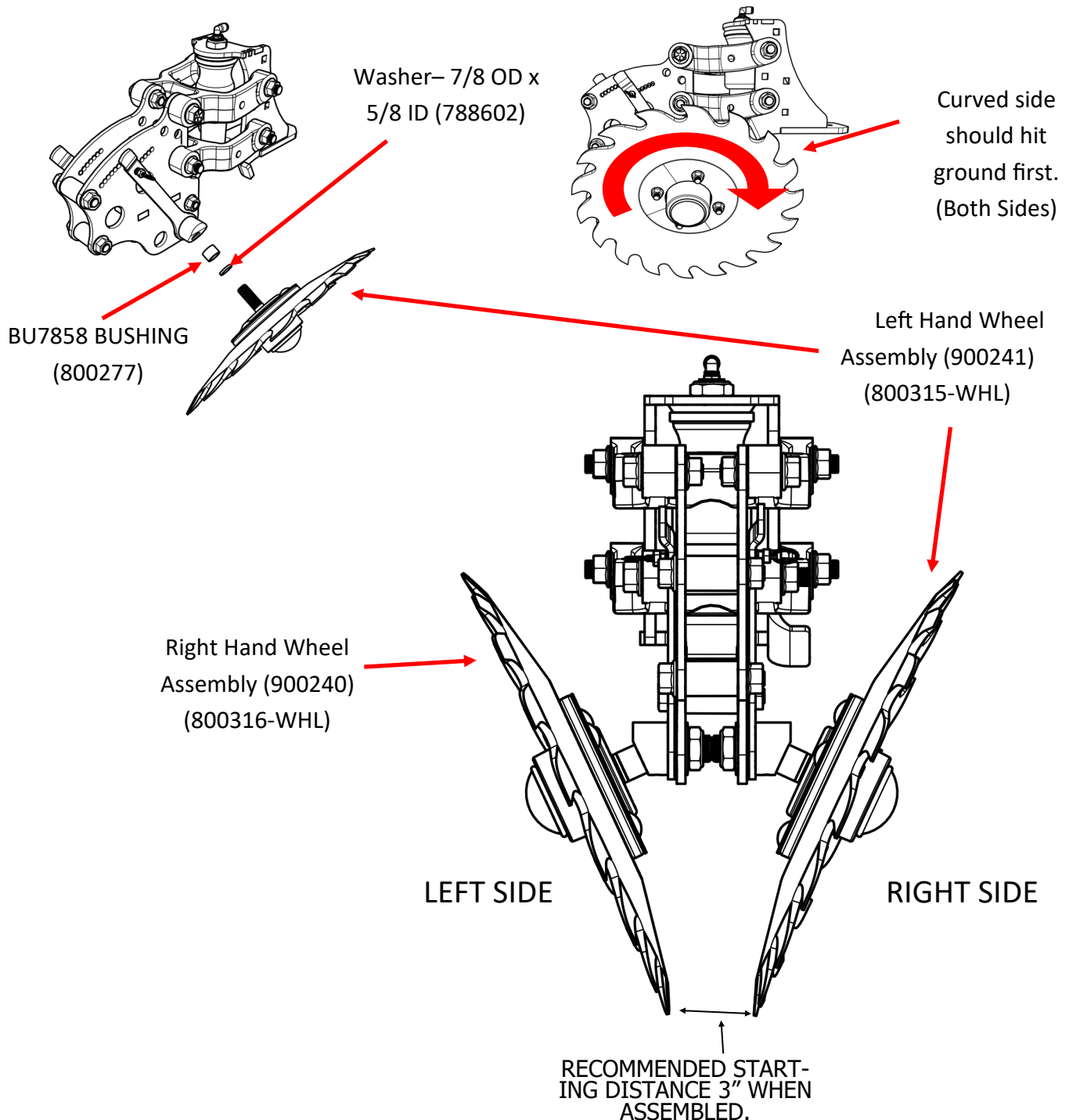
STEP 4 : ATTACH THE WHEELS TO HUBS

1. Install the Wheels to the Hubs as shown below. If installing Razor wheels, be sure that the beveled edge is facing towards the trench. Cupped Razors and Cupped dimple wheels should be installed with the cupped side facing away from the hub as shown.



STEP 5 : ATTACH THE WHEEL ASSEMBLIES TO THE AXLES

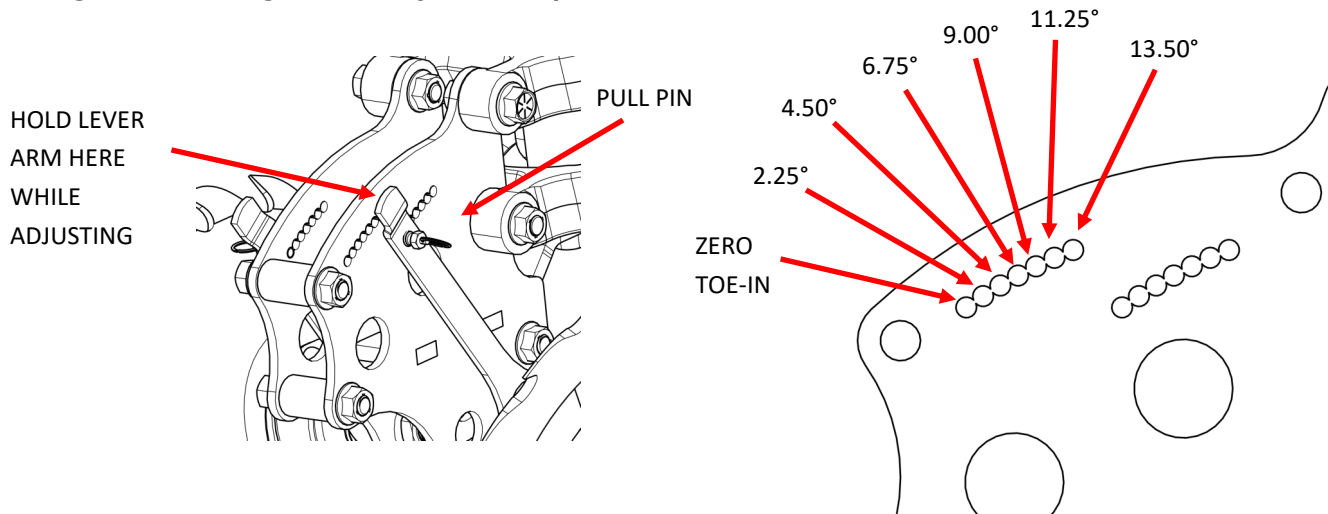
1. If installing Razor wheels, install as shown below with the 800316 (RH Wheel) to the LEFT SIDE of the frame and the 800315 (LH Wheel) to the RIGHT SIDE of the frame.
2. Recommended starting distance between the Wheels at the tips of the blades is 3 inches. For this use 1 BU7858 Bushing and 1 788602 Washer between the hub and the axle.
3. Use provided additional 3 washers per wheel to vary this distance. Washers can be placed behind the hub or behind the head of the bolt under the dust cap. No more than 3 behind the head of the bolt.



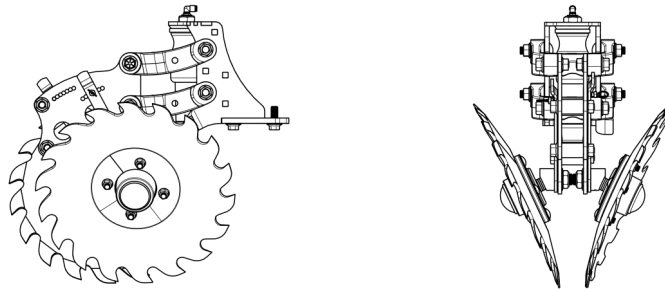
ADJUSTING WHEEL TOE-IN

Wheel Toe-in can be adjusted on both sides of the CCR Closer independently of each other which gives more flexibility to adjust seed trench closure based on varying soil conditions. Below are some examples of settings.

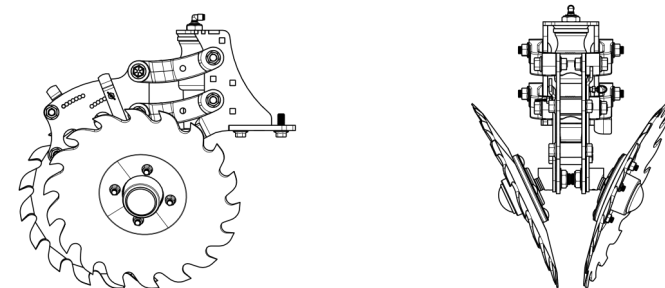
To adjust, use one hand to hold the top of the lever and the other to pull the spring pin using the pull ring. The back hole (hole furthest from the row unit), will give 0 degree of toe-in, where as the last hole will give 13.5 degree of toe-in. (Each hole gives 2.25 degrees of adjustment.)



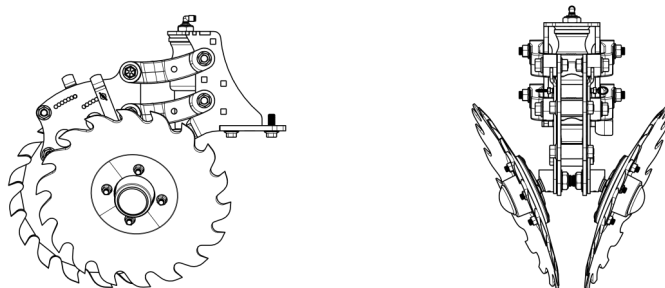
ONE WHEEL AT 6.75 DEGREES



ONE WHEEL AT 13.50 DEGREES

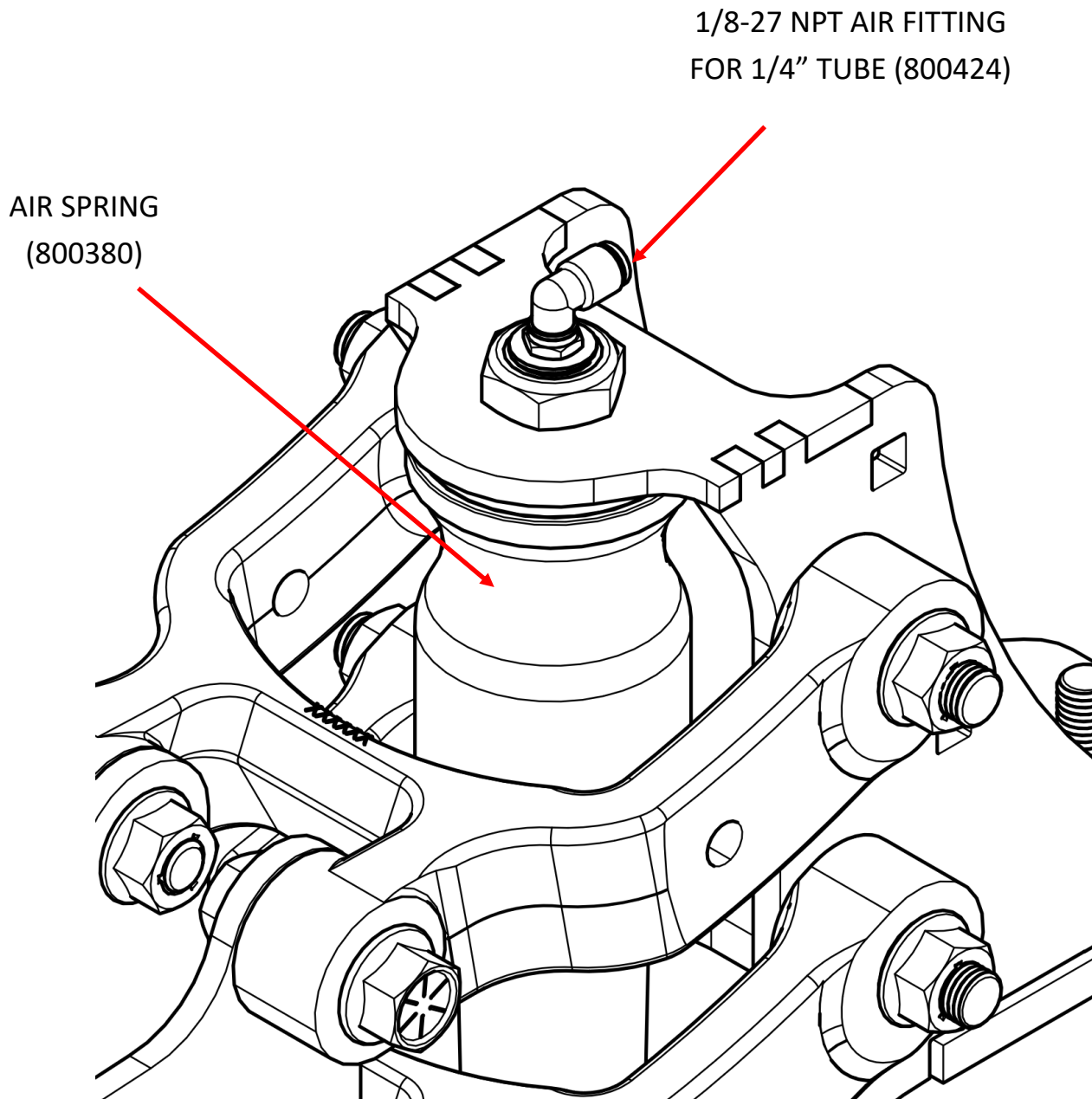


BOTH WHEELS AT 13.50 DEGREES

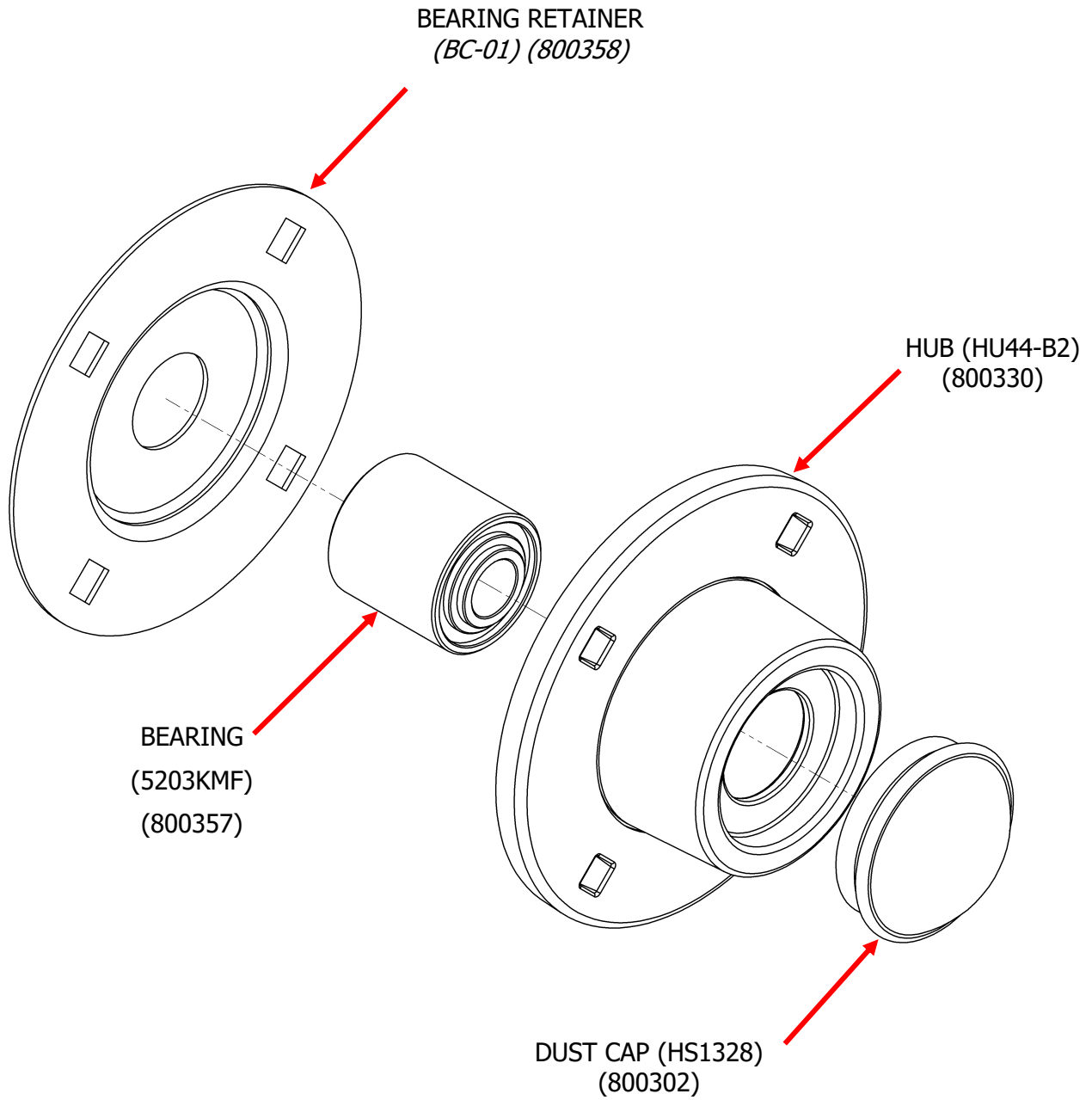


STEP 5 : CONNECT AIR LINES TO THE AIR SPRING

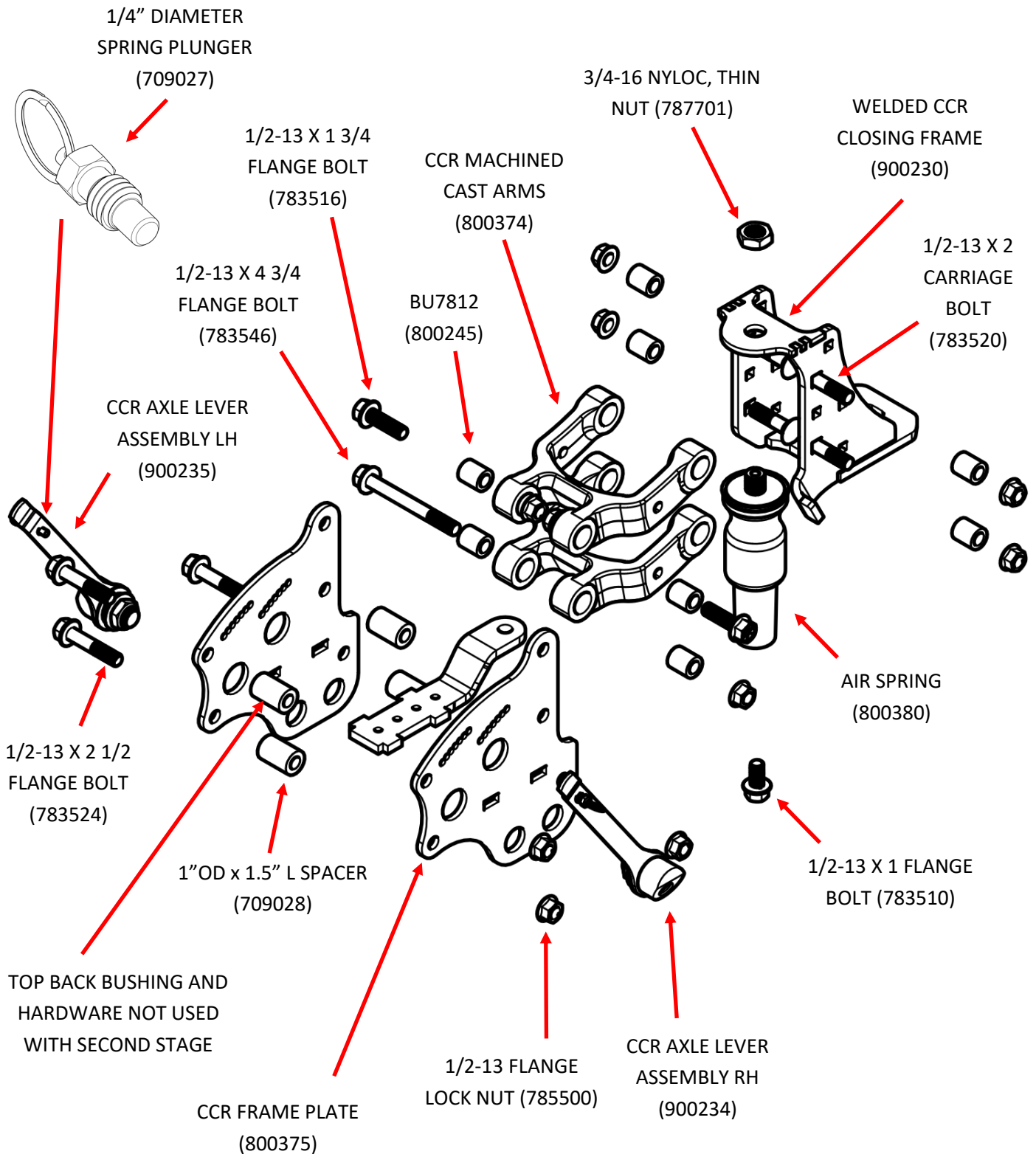
1. If planter previously had air bags installed on closing system, install lines directly to air fitting on top of CCR Closer Unit.
2. If planter did not have air bags previously on closing system, consider using the Smart Clean control with optional Air Bag valve to control closing pressure (900180). Install 1/4" tubing to air fitting. Connect Air Lines to the Air Bag Port of the Plumbing Box.
3. Can also be controlled by manual control box (900185).



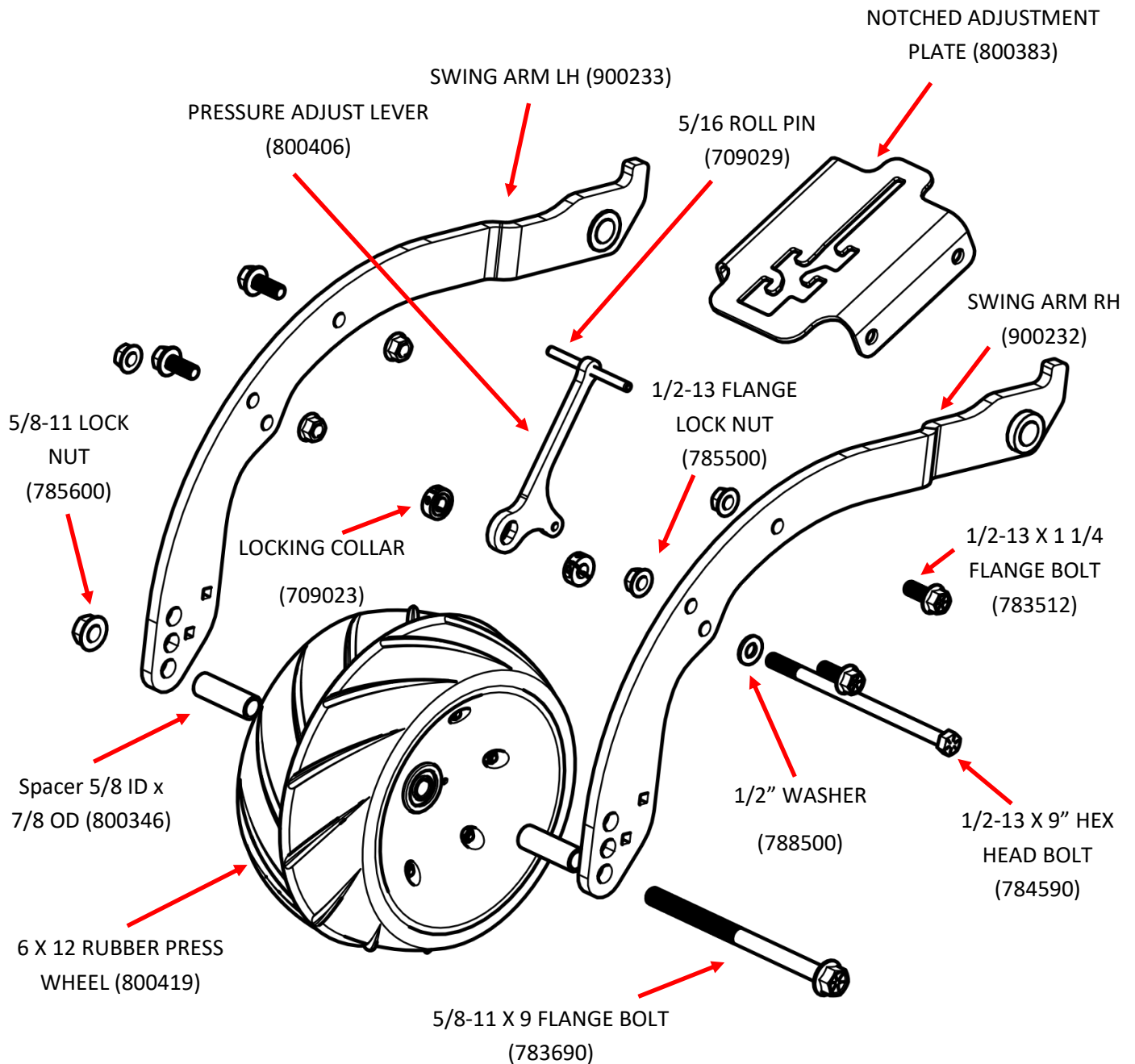
PARTS LIST FOR B-HUB



Exploded View For CCR Closer (900173)



Exploded View For Stage Two Main Assembly (900237)

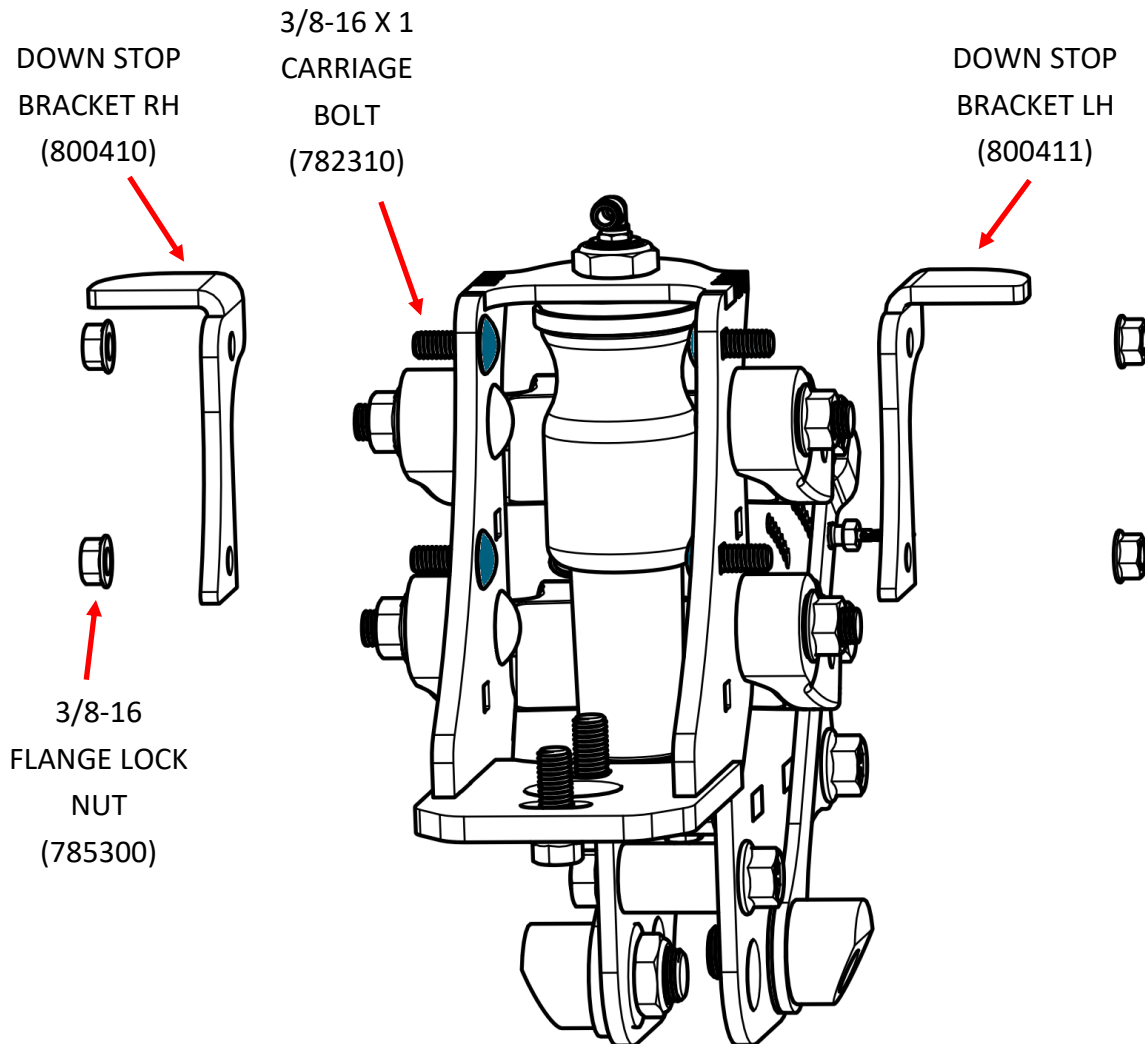


CCR STAGE TWO ASSEMBLY INSTALLATION

If Second Stage Assembly was purchased, complete the following steps to install onto your CCR Closer Assembly.

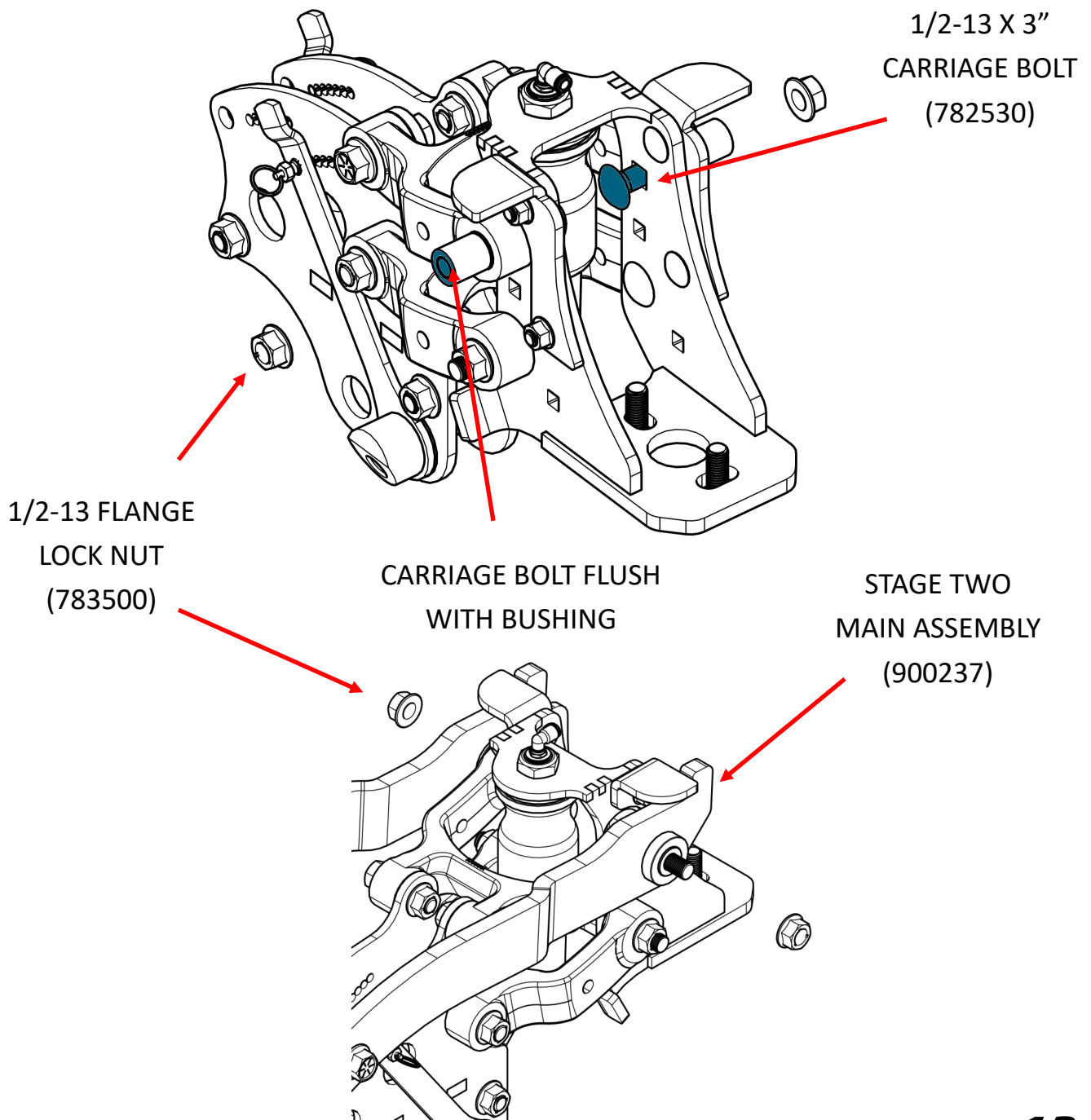
STEP 1 : INSTALL STAGE TWO STOP BRACKETS

1. Install Stage Two Swing Arm Stop brackets to the Mount Assembly of the CCR Closer behind the top cast arm as shown below using 3/8-16 x 1" Carriage Bolts and Nuts.



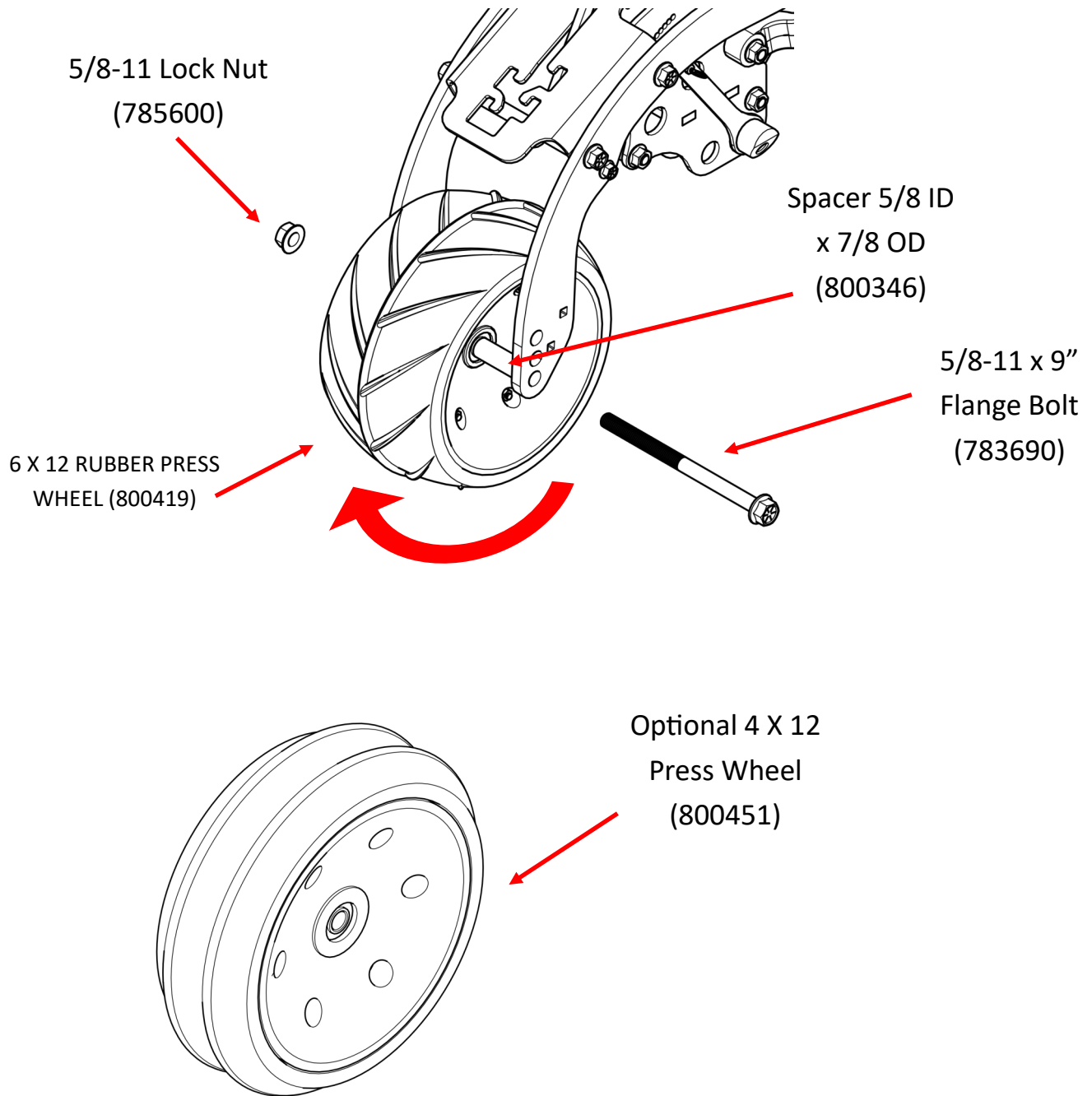
STEP 2: INSTALL STAGE TWO MAIN ASSEMBLY

1. Remove the top 1/2-13 x 2" Carriage Bolts from the CCR Closer Unit. It is advised that this be done one at a time.
2. Install 1/2-13 x 3 Carriage Bolts in their place, but do not re-install nut.
3. With longer Carriage Bolts installed, slide 1 BU7812 on each side.
4. Slide the Carriage Bolts back so that the ends are flush with the ends of the Bushings. This will allow the pre-assembled Stage Two Assembly to slide on.
5. Slide on Stage Two Main Assembly (900237) as shown and push the 1/2-13 x 3 Carriage bolts through the arms on each side.
5. Fasten with 1/2-13 Flange Lock Nuts (785500) originally taken off of the CCR Closer.



STEP 3: INSTALL PRESS WHEEL

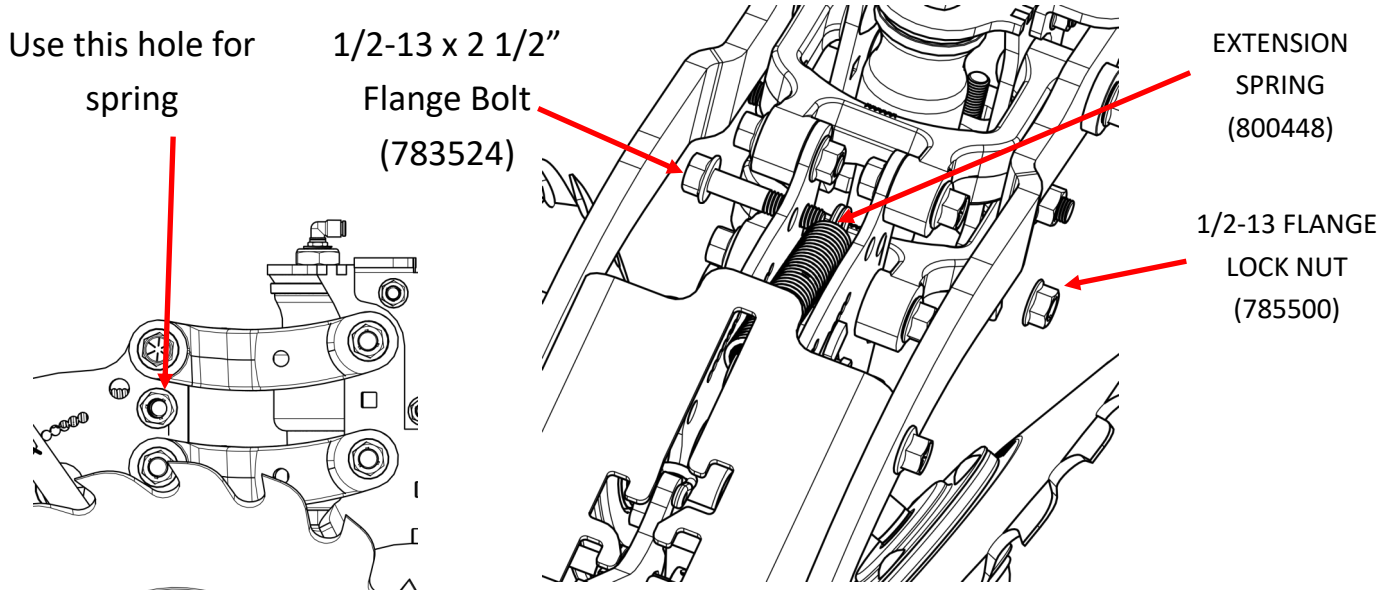
1. Install Press Wheel (800419 or 800451 (4x12)) to Stage Two Swing Arms as shown below with 5/8-11 x 9 Flange Bolt (783690), 2 x Press Wheel Spacers (800346), and 5/8-11 Lock Nut (785600).



STEP 4: INSTALL SPRING TO FRONT

1. Use 1/2-13 x 2 1/2 Flange Bolt to secure the down pressure spring (800448) between the Wheel Frame Plates (800375) as shown in the hole between casting arms. Fasten with 1/2-13 Flange Lock Nut.

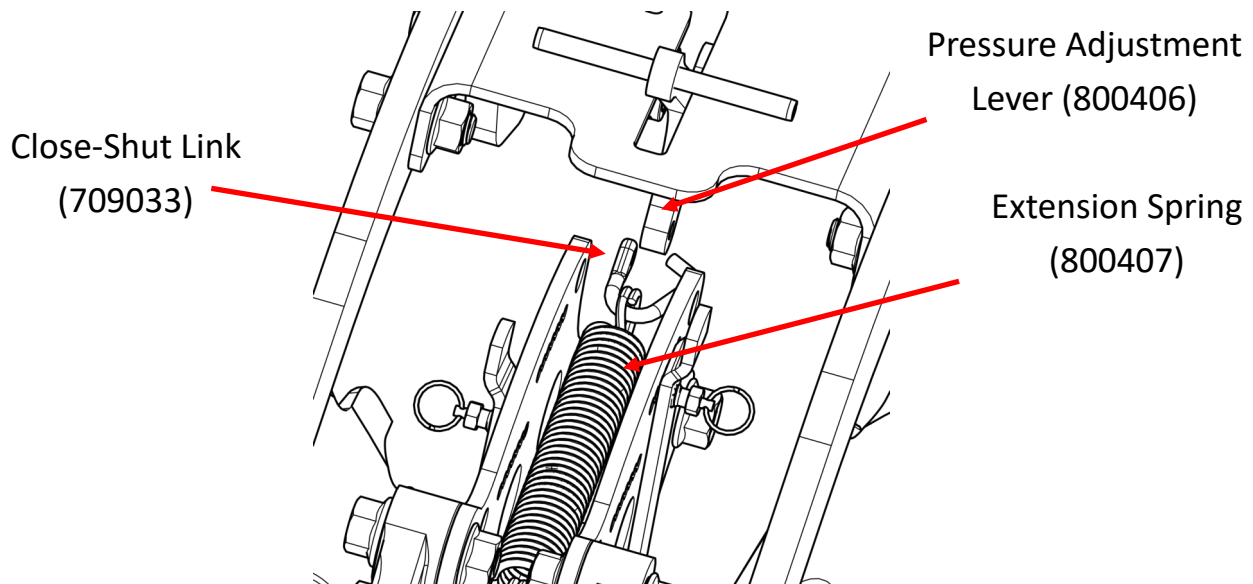
Note: Do not overtighten nut. Bolt and nut should be free to spin.



STEP 5: INSTALL EXTENSION SPRING TO BACK LEVER

1. With Pressure Adjustment Lever (800406) fully down as shown below, install Extension Spring (800448) to the lever using Close-Shut Link (709033). With Pliers, bend the Link closed.

Note: Spring will need to be extended slightly to install.





The most trusted name in no-till
Established 1991

Martin Industries LLC

206 Elk Fork Road

Elkton, KY 42220

Telephone: 270-265-5817

E-Mail: martin@martintill.com