

Axle Replacement Procedure

Safety



CRUSH HAZARD. Verify crane and/or jacks can support the machine weight.

Use a crane and/or jacks to support the axle during removal and installation.

Failure to do so could result in serious injury or death.



Always comply with all Lock Out / Tag Out procedures and other safety procedures established for the local work environment before servicing this machine.



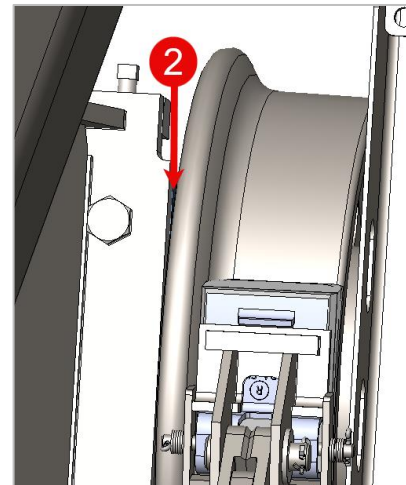
Always shut off the engine, make sure that all controls are in a safe position and install all appropriate locking and safety devices before doing performing service on the machine.

Note: Refer to the machine's parts manual for axle parts and components.

Loosen Wheel Lug Nuts

Note: This is optional and not all axles will have the wheel pre-installed.

1. If wheels are installed on the axle, it is recommended to loosen the lug nuts while the machine is on the track.
2. If loosening the lug nuts, first measure the gap between the frame and the wheel flange. Make sure it is the same on for both sides (left side and right side).



Raise and Secure Machine

1. Use turntable to lift machine and engage jack stands to secure the machine.
 - (Retract turntable so machine is secured on jack stands).
2. De-energize the machine. Release air pressure from the air tanks.

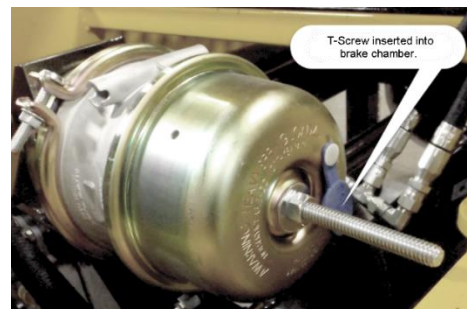
Release the Brakes

This machine has an air parking/service brake chamber at each wheel. Parking brakes are spring applied until air pressure is applied to release the brake shoes to allow machine travel.

1. Verify the brake is in the applied position.
2. Remove any guards covering each of the brake chambers.
3. On each brake chamber, remove the T-head screw, washer, and nut.



4. Remove the rubber plug on the front of each brake chamber.
5. Insert the T-Head screw into the slot at the bottom of the brake chamber.
6. Rotate ¼-turn clockwise to engage the screw into the diaphragm plate.
7. Hold the T-screw in place while installing the washer and nut.
8. Tighten T-screw clockwise until the brake shoe is clear of at each wheel.



9. Confirm brake shoe clearance.

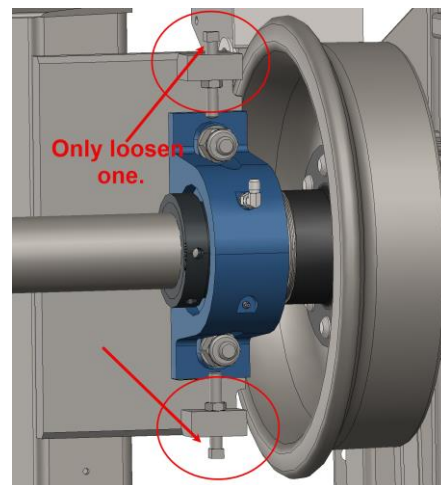
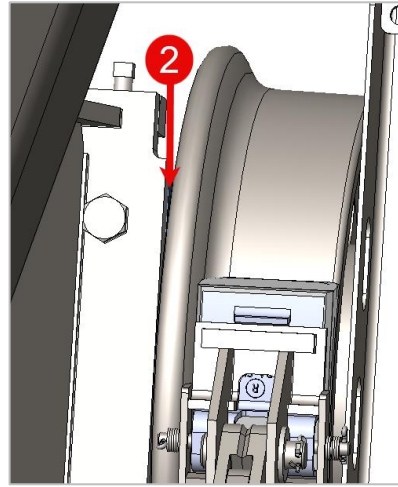
After Axle Replacment

1. Remove the T-Head screw, washer, and nut from the slot at the rear of the four brake chambers.
2. Reinstall each T-Head screw, washer, and nut assembly to their storage location on each brake chamber.

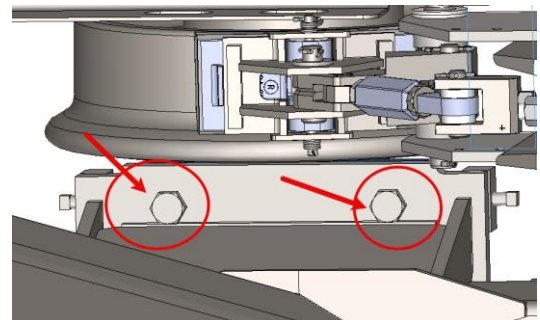
Note: Make sure brake system is restored before operation.

Removing the Axle

1. Remove chain guards and drive chains for both wheels.
2. Measure the gap between the frame and the wheel flange. Make sure it is the same on for both sides (left side and right side).
3. Disconnect the lube line to each pillow block bearing.
4. Remove the wheels (optional).
5. With the axle secured, loosen only one of the stop bolts on each side (left and right) of the frame.
 - Use the non-loosen stop bolt to correctly position the axle during the re-install.
6. Remove the two bolts securing the pillow block bearing to the frame on each bearing (both sides).
7. Lower and remove the axle.



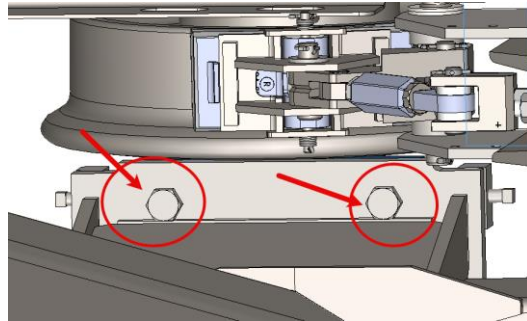
Make sure the axle is secure from falling before removing securing bolts.



Axle Install

1. Loosely install bolts securing axle to the pillow block.

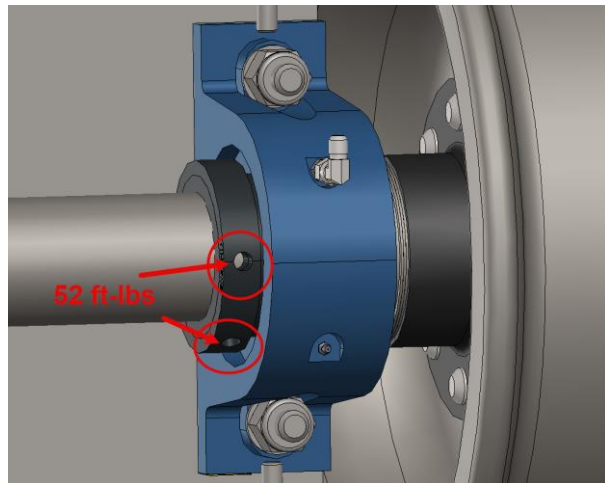
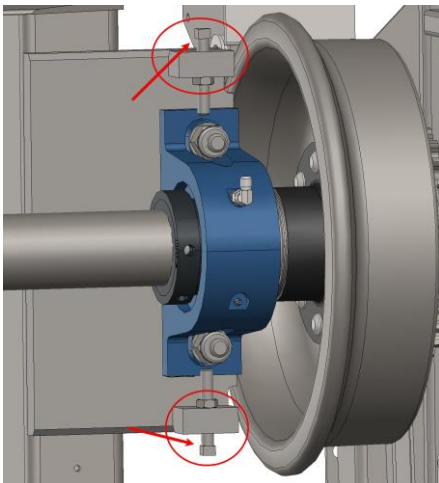
DO NOT tighten.



2. Slide the axle up against the stationary stop bolts.
3. Verify the gap between the frame and the wheel flange is the same distance from the removal step.
Do this for both ends of the axle.
4. Tighten the bolts securing axle to the pillow block bearing **[260 ft-lbs.]**.
5. Tighten the other stop blocks.
6. Tighten the (2) set screws on each bearing **[52 ft-lbs.]**.
7. If equipped with split collars, tighten the bolts **[110 ft-lbs.]**.
8. Torque wheel lug nuts **[180 ft-lbs.]**.
9. Reconnect the lube lines.

Note:

- Check axle bearing set screws on both axles.
- Torque both .5-20 UNC set screws on each bearing to **52 ft-lbs.**
- On new axles installed onto existing machines, torque both .5-20 UNC set screws on each bearing to **52 ft-lbs.**



Note: Inspect axle and wheel for wear and alignment. (See Axle Trimming Procedure on RRP website.)

Wheel Fastener Torques

