



Release Date: 05/27/2020

Revision Number: 00

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Drop Box Replacement

Document Number	Model	Serial Number Range	Part Number
12-80028	520Y / 520M	All Units	N/A

WARNING

Before making repairs or adjustments set the parking brake, turn off the engine, and remove the ignition key. Always disconnect the negative battery cable from the battery when working with electrical components. Always work in a manner that does not put safety at risk.

WARNING

Safety glasses must be worn during installation. Ear (hearing) protection must be worn when using air or power tools.

Installation Notes: Right and left hand orientation referred to in these instructions is determined as if facing forward from the operator station.

Installation Time (estimated)

1 hour

Tools Required: 1/2" Wrench, 1/2" Socket, 15/16" Socket, 13/16" Socket, Torque wrench, Ratchet, Circlip pliers, Putty knife

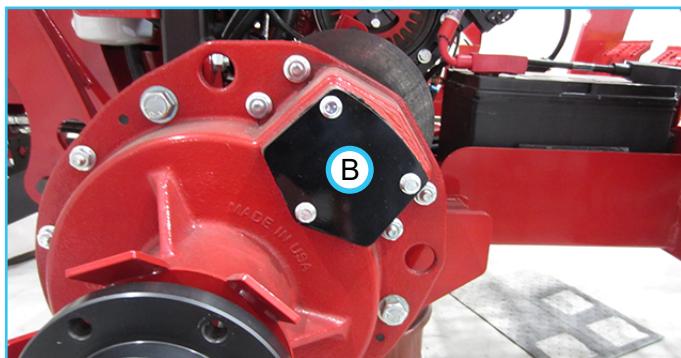
REMOVAL

1. Park the tractor on a level surface.
2. Engage the parking brake and shut off the engine.
3. Remove the key from the ignition switch.
4. Using a jack and jack stands lift the rear of the tractor, raising the rear of the tractor approximately two inches off of the ground.
5. Remove the rear wheels by removing the six 9/16" wheel stud bolts (A).

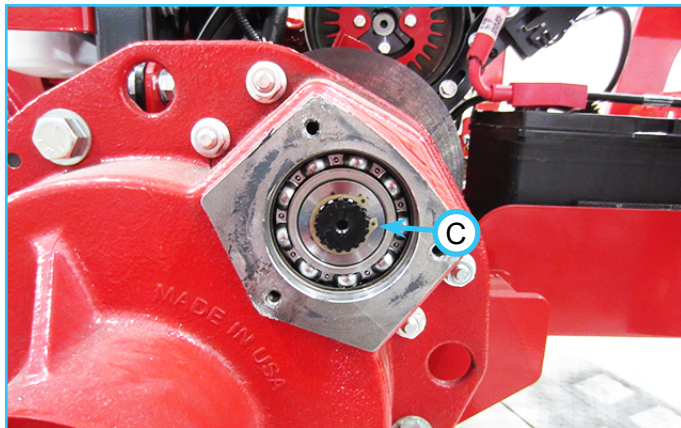


6. Remove the wheels from the hubs.

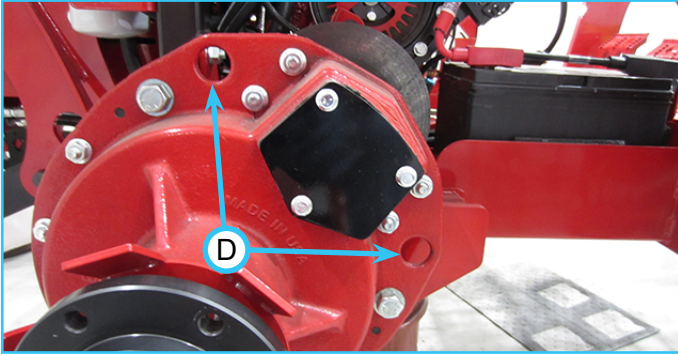
7. Remove the axle cover (B) from the drop box by removing the three 5/16" mounting bolts. The cover is also held in place with RTV silicone adhesive and may need to be pried slightly with a putty knife.



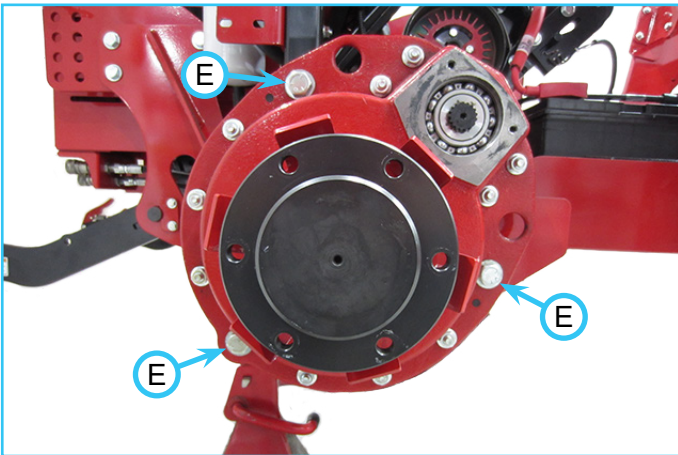
8. Remove the circlip (C) from the axle.



9. Support the drop box from the bottom with a floor jack or using a hoist supporting the drop box from the lift points (D).



10. Remove the three 5/8" mounting bolts (E).

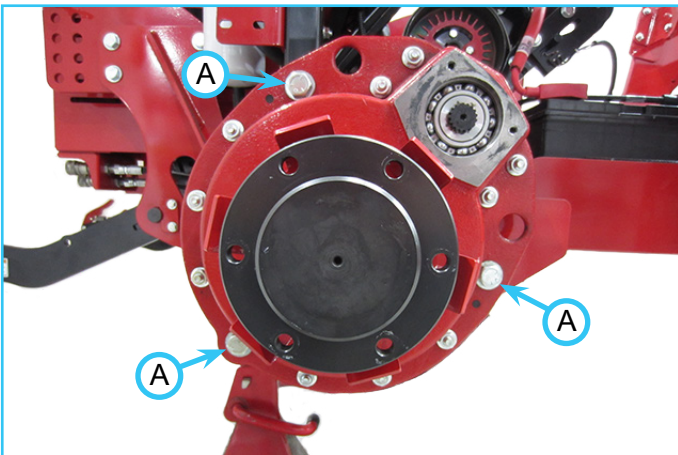


11. With the mounting bolts removed, remove the drop box from the axle.

REMOVAL COMPLETE

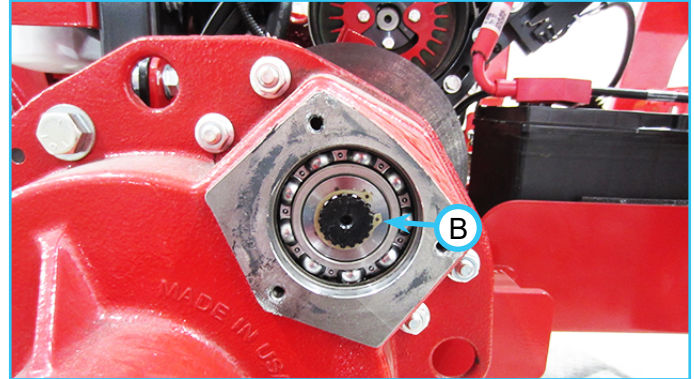
INSTALLATION

1. Using the hoist or floor jack position the drop box aligning the mounting holes and axle.
2. Slide the drop box onto the axle.
3. Install the three 5/8" mounting bolts (A) through the drop box and into the frame.



4. Torque the 5/8" bolts to 151 ft-lbs (205 Nm).

5. Install the Circlip (B) onto the axle. Ensure that the Circlip is fully seated in the groove on the axle.



6. Clean any RTV silicone sealant residue from drop the drop box and axle covers.
7. Apply a bead of RTV silicone around the axle cover.
8. Position the axle cover on the drop box aligning the mounting holes.
9. Secure the axle covers (C) in place using three 5/16" bolts.



10. Torque the 5/16" bolts to 210 in-lbs (24 Nm).

11. Install the rear wheels by installing the six 9/16" wheel stud bolts (D).



12. Torque the wheel stud bolts to 109 ft-lbs (148 Nm).

INSTALLATION COMPLETE