

## PROCEDURE REF# A-INL-036

**Repair of the steering axle**

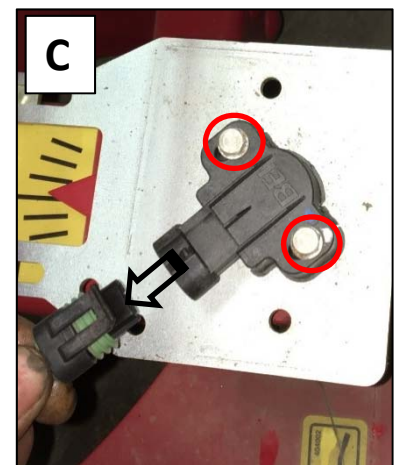
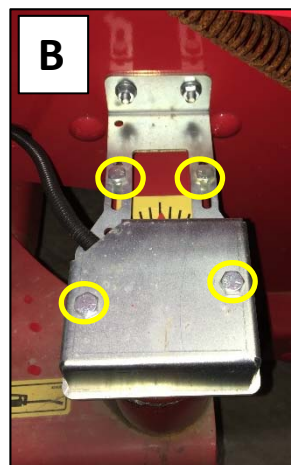
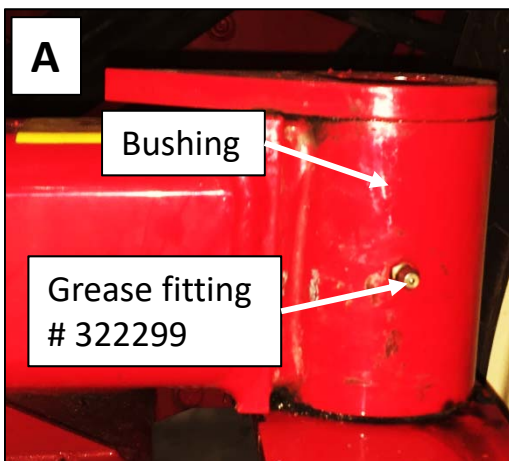
There is 3 breaking possibilities:

- The axle is fully jammed;
- The axle is partially jammed;
- The axle is broken.

**Note:** For best results, the machine must be raised (lift, jack or chain bloc).

**The axle is full jammed:**

1. Remove the wheel with a socket 7/8 ;
2. If the machine is equipped with the auto-pilot option, remove the top (with a socket 7/16 and a wrench 7/16) and the components under the top (with a wrench 3/8 and a socket 5/16). See figure B & C.
3. With a torch, heat up the bushing (fig. A). If needed, replace the grease fitting (# 322299) with a wrench 5/16;
4. Start the engine at full throttle;
5. With a hammer, hit around the bushing while steering the wheels with the valve lever;
6. If it does not work, remove the grease fitting and insert aerosol lubricant with spray can. Try steers the wheels again with the valve lever;
7. If it still does not work, you will have to change the axle (see section **The axle is broken**).



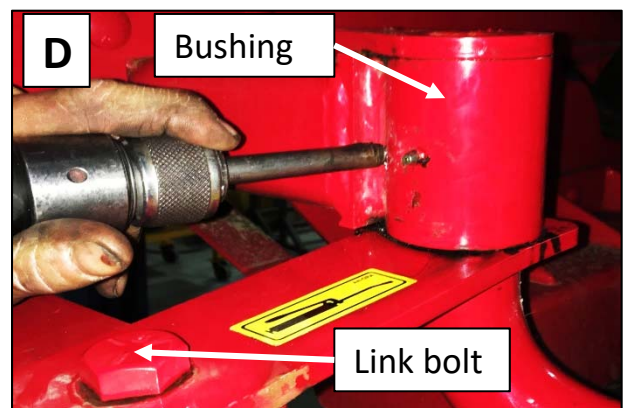
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## Repair of the steering axle

**Note:** For best results, the machine must be raised (lift, jack or chain bloc).

**The axle is partially jammed:** (turns to one side only or does not steer fully to the end of each stroke):

1. Remove the wheel with a socket 7/8;
2. If the machine is equipped with the auto-pilot option, remove the top (with a socket 7/16 and a wrench 7/16 (fig. B)) and the components under the top (with a wrench 3/8 and a socket 5/16 (fig. C));
3. Hit the bushing with a zip gun (fig. D);
4. With the valve lever, continuously steer the wheels to both directions (engine full throttle);
5. If it is still hard to move, heat up the bushing with a torch (fig. D) and replace the grease fitting if needed (# 322299).



**The axle is broken:**

1. Remove the wheel with a socket 7/8;
2. If the machine is equipped with the auto-pilot option, remove the top (with a socket 7/16 and a wrench 7/16 (fig. B)) and the components under the top (with a wrench 3/8 and a socket 5/16 (fig. C));
3. Remove the hub (keep it to reinstall on the new axle (fig. E));



4. Remove the bolt from link and its nut (with a wrench 1 1/16 and a socket 1 1/8 (fig. D));

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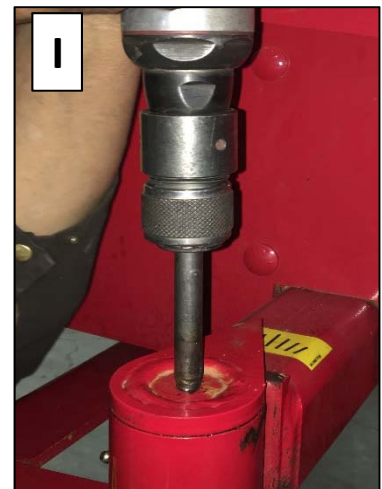
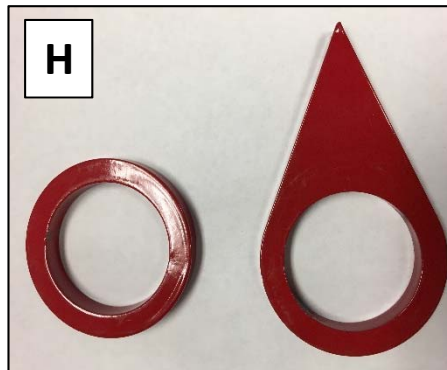
**Repair of the steering axle**

- Remove the top (the piece above the bushing) by cutting it with a torch (fig. F) or with a cutting wheel/buffer (fig. G). Be careful not to break the bushing;



- According to the severity of the defect, use a hammer and/or a zip gun (fig. I) and tap on top of the bushing to remove the parts that might be stock from inside the bushing;
- Order the axle (part # will depend of the wrapper model) as well as the top of the axle (# 244312 (fig H));

- Reinstall the axle and take care to weld the top at the right position.



Tools needed:

- Socket 5/16, 7/16, 7/8 and 1 1/8
- Wrench 5/16, 7/16, 3/8 and 1 1/16
- Hammer
- Zip gun
- Welding machine
- Cutting wheel/buffer
- Torch