



Shut down the tractor and remove the key before repairing, servicing, lubricating or cleaning the machine.

Relieve all hydraulic pressure in the hoses. Disconnect the hydraulic hoses from the tractor before going near the machine.

Securely block the machine to avoid any movement while doing the work.



Remove

1. Lift the PTO guard (1), see *Figure 1*.
2. Disconnect the driveline (2) from the tractor to the bearing, see *Figure 1*.
 - Remove the driveline.
 - Keep the driveline for re-use.
3. Remove the fasteners (3) holding the rear driveline shield (4), see *Figure 2*.
 - Discard the shield (4) and fasteners (3).

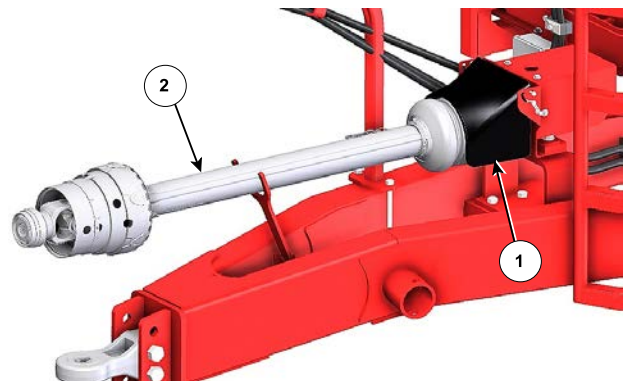


Figure 1: Remove the Tractor Driveline

224289C

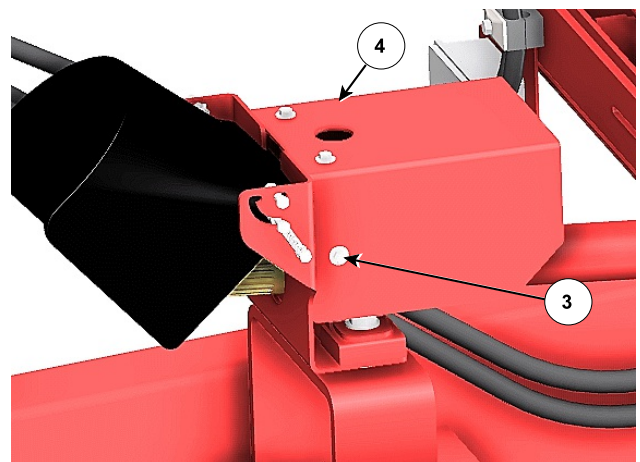


Figure 2: Remove the Rear Driveline Shield

224290C

4. Release the bearing lock collar (5) on the driveline, see *Figure 3*.
5. Remove the fasteners (6) holding the bearing to the mount plate, see *Figure 3*.
 - Discard the fasteners.
6. Slide the bearing and shield mount with the shield off the driveline.
 - Discard the PTO shield, the shield mount and the bearing.
7. Loosen the driveline fasteners (1) from the front screw planetary splined shaft, see *Figure 4*.
 - Note: The driveline on an AMX520T is not mounted through the frame. *Figure 4* shows an AMX850T as an example.
8. Remove the driveline out from the front of the machine.
 - Discard the driveline.
9. At the front hitch, remove the fasteners (2) holding the bearing support (3), see *Figure 5*.
 - Discard the fasteners.
10. Remove the bearing support (3), see *Figure 5*.
 - Discard the bearing support.

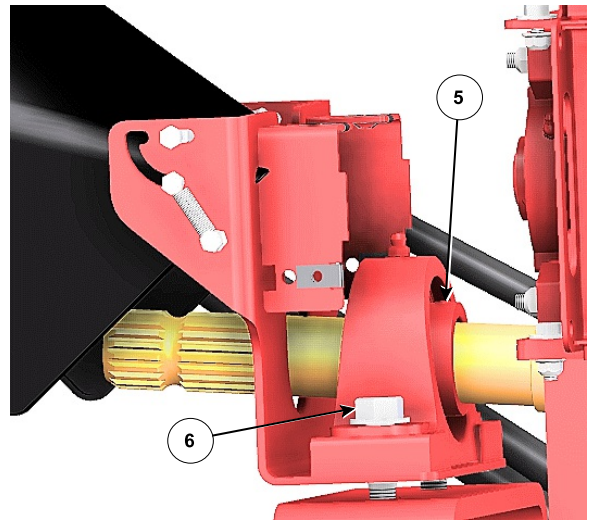


Figure 3: Release the Bearing Lock Collar 224291C

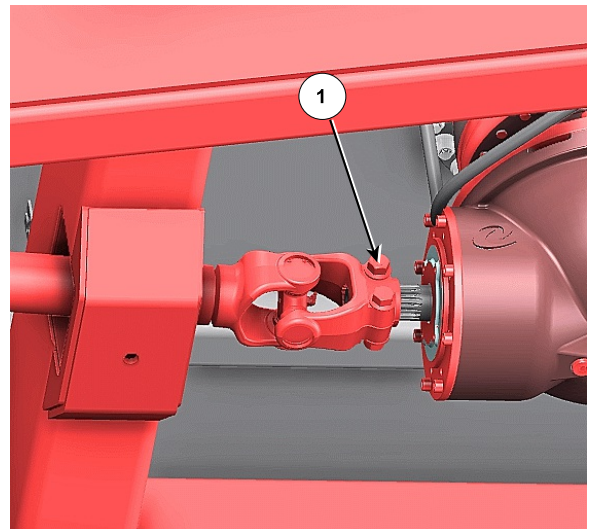


Figure 4: Remove the Driveline from the Machine 224292C

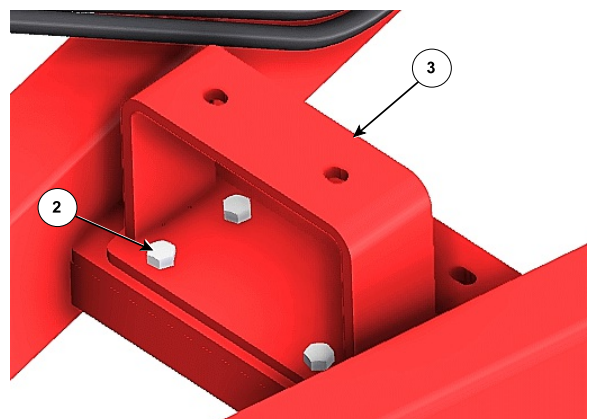


Figure 5: Remove the Fasteners & Bearing Support 224293C

Install

1. Place the 2 speed gearbox (4) onto the base plate between the hitch frame tubes, see *Figure 6*.
 - Note: The gearbox weighs about 250 lbs (113 kg). Use appropriate lifting straps and lifting devices.
 - Place the gearbox with the top splined shaft (5) toward the front of the hitch.
 - Align the threaded holes on the bottom of the gearbox with the holes in the base plate between the frame members.
2. Fasten the gearbox with 4 of M16 x 35 grade 8.8 hex bolts and 9/16" flat washers.
 - Torque to 121 ft-lb. (164 Nm).
3. Attach the driveline (1) to the lower splined shaft of the gearbox and to the screw planetary, see *Figure 7*.
 - Pass the driveline through the opening in the machine frame to the screw planetary. (This is not applicable for an AMX520T.)
4. Connect the tractor PTO shaft to the upper splined shaft of the gearbox.
5. Install the PTO shield (2) over the top splined shaft of the gearbox with 2 of M16 x 35 grade 8.8 hex bolts and 9/16" flat washers (1), see *Figure 8*.
 - Torque to 121 ft-lb. (164 Nm).

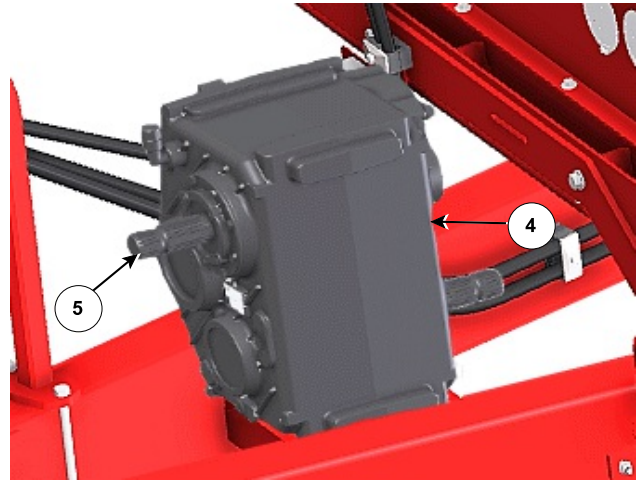


Figure 6: Place the Gearbox onto the Base Plate 224294C

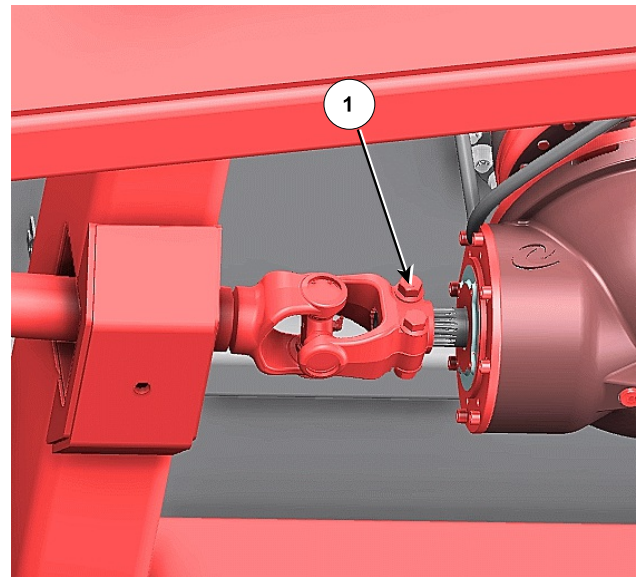


Figure 7: Attach the Driveline to the Screw Planetary 224292C

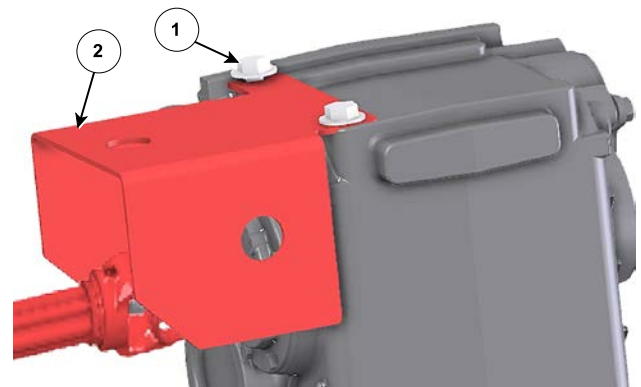


Figure 8: Install the PTO Shield over the Upper Shaft 224295C

Using the 2 Speed Manual Gearbox

Note: The gearbox is typically shipped with no oil in it. Do not operate without confirming there is oil in the gearbox.

1. Check the oil level in the gearbox.
 - Oil should be showing in the sight glass (3), see *Figure 9*.
 - If needed, fill the gearbox with EP220 oil through the port at the top of the gearbox.
 - Fill the gearbox with approximately 9 liters (2.4 US gallons) of EP220 oil.

Note: To shift the speed of the gearbox the tractor PTO must be fully stopped and disengaged.

2. Move the lever (4) on the gearbox to change the output speed, see *Figure 10*.
 - A guide to the shift position (5) is indicated on the shield.
 - High range is the same speed as the PTO of the tractor. The high range gives no change in mixing screw speed. High range is often used for tub clean-out.
 - The low range reduces the screw rpm by 33% from the PTO speed. The low range is often used for all mixing and reduces fuel usage.

Note: Do not operate the gearbox in Neutral for extended periods of time. When in neutral the oil does not get to the upper gear and could result in damage.

3. Re-engage the tractor PTO.



Figure 9: Check the Oil Level in the Gearbox 224173C4

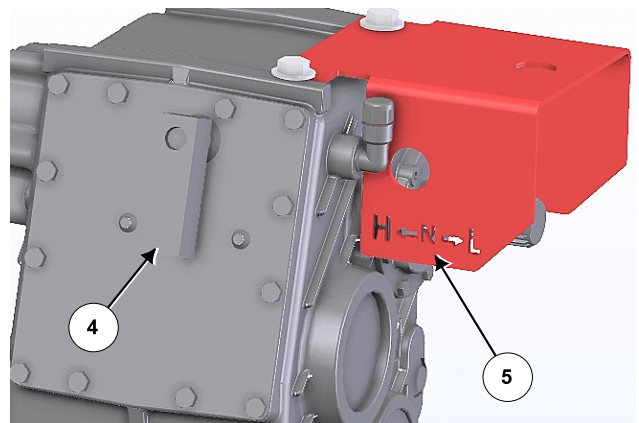


Figure 10: Shift Lever and Shift Position Guide 224305C