

AccuMix™

AMX850T

Operator Manual



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E20389_A

AccuMix™ AMX850T

Towed Vertical Feed Mixer

Operator Manual

From Serial Number AM4492401 to AM4492410

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Highline Team Message

***Congratulations on your purchase of the AccuMix AMX850T** manufactured by Highline Manufacturing. We are excited about you feeding with the technically advanced feed mixer that is self-propelled selfloading. You will find flexibility and maneuverability of operation with this product.*

This Operator Manual has been prepared to provide information necessary for the safe and efficient operation of your AccuMix AMX850T. In the manual you will find safety procedures, maintenance routines and detailed operational instructions.

If you find that you require information not covered in this manual, please feel free to consult your local dealer. Your dealer is always able to contact Highline for this technical information.

Highline Manufacturing thanks and congratulates you for selecting the AccuMix AMX850T as your machine of choice.

Highline Manufacturing

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GENERAL DESCRIPTION OF THE ACCUMIX AMX850T

The AccuMix AMX850T is a towed total mixed ration machine. It is intended to cut and mix various types of feed products to prepare a mixed ration for feeding livestock.

The power for the mixing screws is provided by a driveline powered by the tractor. The tractor hydraulics are used for opening and closing the front tub door and operating the feed unloading conveyor. The tractor hydraulics also control the optional lifting conveyor lift if it is present.

The operator drives and controls the machine from the tractor cab. The feed materials are loaded into the mixing tub by means of a pay loader or other loading equipment.

The adding of these additives can be done by the operator by standing on the platform and loading additives into the tub.

There are 2 mixing screws that perform cutting and mixing of the materials in the tub. The speed of the mixing screws is adjusted by the operator in the cab by adjusting the PTO speed.. The mixing screws are powered by a driveline from the tractor. A planetary gearbox located under each screw provides rotation to the screw. The planetary gearbox is equipped with a remote oil reservoir.

The mixing tub is mounted on weigh scales that give readout of the weight of material in the tub to a display or remote display. The weigh scales can also be used to know the weight of material being loaded.

It is recommended that the proportions of the feed materials in the ration be determined in consultation with an animal feed nutritionist. The loading operator regulates the amount of material that is added according to the ration mix prescribed by the nutritionist.

While traveling to the feeding site the mixing screws in the tub agitate the product to cut the material and provide a uniform mix.

The material is discharged onto the conveyor to be unloaded on the right of the machine. The optional high lift conveyor places the material into a feed bunk.

The transporting of feed materials and feeding discharge is controlled by the operator in the tractor cab.

The main source of noise when using the machine is the tractor engine and the mixing screws when operating. The tractor engine noise is not under the control of Highline. The mixing screw gearboxes used on the machine generate minimal noise.

INTENDED USE OF THE ACCUMIX AMX850T

The AccuMix AMX850T is designed to process and mix various animal feeds and to unload animal feed suitable for feeding livestock in a ration that is designed by an animal nutritionist. The AccuMix AMX850T is intended for use in farming applications. The AccuMix AMX850T is intended for off road use.

Any uses of the AccuMix AMX850T other than the above stated Intended Uses shall be considered misuse of the AccuMix AMX850T. This misuse shall include (but not limited to):

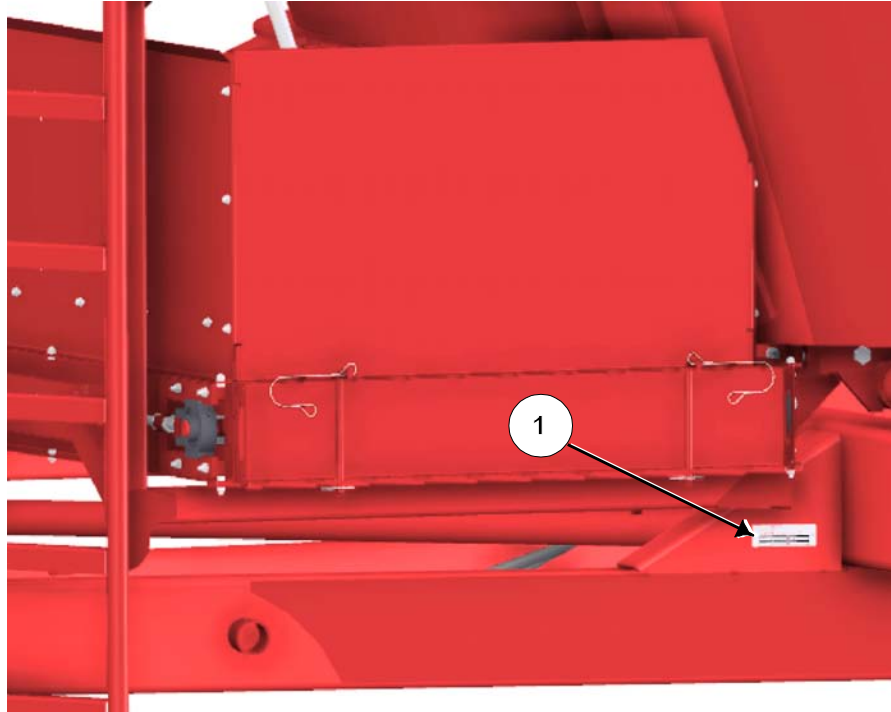
- Using the AccuMix AMX850T in non-farming applications
- Processing materials other than animal feed materials

Always use the AccuMix AMX850T according to the instructions contained in this Operator Manual and the safety and instruction decals on the machine.

Perform regular maintenance and repair to ensure that the AccuMix AMX850T operates safely and efficiently.

SERIAL NUMBER

The serial number plate (1) is attached to the AMX850T on the left side of the frame near the tub and the conveyor.



Serial Number Plate Location

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It is important to record the serial number for proof of ownership and for any service or maintenance assistance.

Serial Number

Owner

Model

Date of Purchase

Section 1 - Safety

SAFETY SIGN-OFF FORM

Highline Manufacturing follows the general Safety Standards specified by the American Society of Agricultural and Biological Engineers (ASABE) and the Occupational Safety and Health Administration (OSHA). Anyone who will be operating and/or maintaining the AccuMix AMX850T should read and clearly understand all Safety, Operating and Maintenance information presented in this manual.

Do not operate or allow someone to operate this equipment until this information has been reviewed. This information should be reviewed by all operators.

This sign-off sheet is provided for record keeping to indicate that the person working with the equipment has read and understood the information in the Operator Manual and has been instructed in the safe operation of the equipment.

Date	Employee's Signature	Employer's Signature

SAFETY ALERT SYMBOL

The Safety Alert Symbol means:



ATTENTION!
BECOME ALERT!
YOUR SAFETY IS INVOLVED!

The Safety Alert Symbol combined with a Signal Word alert to the presence of a hazard and the degree of possible injury.



Indicates an imminently hazardous situation that, if not avoided, **WILL** result in **DEATH OR SERIOUS INJURY**. The color is Red with White lettering.



Indicates a potentially hazardous situation that, if not avoided, **COULD** result in **DEATH OR SERIOUS INJURY**, and includes hazards that are exposed when guards are removed or unsafe practices. The color is Orange with Black lettering.



Indicates a potentially hazardous situation that, if not avoided, **MAY** result in **MINOR INJURY**. The color is Yellow with Black lettering.

GENERAL SAFETY

1. Ensure that anyone who is going to operate, maintain or work near the AccuMix AMX850T is familiar with the recommended operating, maintenance procedures and safety information contained in this manual and follows all the safety precautions.
2. In addition to the design and configuration of the equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of the machine.
3. The AccuMix AMX850T shall not be operated without all the guards in place.

SAFETY DECALS

1. Keep decals and signs clean and legible at all times.
2. Replace decals and signs that are damaged, missing or have become illegible.
3. Replaced parts that displayed a decal should also display the current decal.
4. Decals are available from the Highline Parts Department.
5. Be familiar with the decals, the type of warning and the area or function(s) related to the area(s) that requires your awareness.

DO NOT ENTER THE TUB WHILE THE MIXERS ARE TURNING



Entering the tub when the mixers are turning will result in death or serious injury.

Do not lean over the mixing tub while the screws are turning to avoid the danger of falling into the tub.

DO NOT CONTACT THE ROTATING SCREWS

Never attempt to manually remove debris while the screws are rotating.

DO NOT ENTER THE TUB WITH MATERIAL IN THE TUB

The material is unstable and may cause entrapment.

There is no means of exiting the tub when the tub is full.



STAND CLEAR OF THE DISCHARGE DOOR DURING OPERATION

A lowering discharge door will result in death or serious injury.

Ensure the door is locked open before entering the tub.

Before entering an empty tub to perform service:

- Ensure the tractor is turned off, the key is removed.
- All parts have stopped moving.
- The discharge door is supported in the open position.



STAND CLEAR OF THE UNLOADING CONVEYOR

Contact with the moving conveyor could result in death or serious injury.



Keep body and clothing away from moving parts to prevent serious injury or death.

Shut off the machine and remove the key before performing any maintenance on the conveyor.

STAY CLEAR OF THE LOWERING FOLDING CONVEYOR

Stay clear of the high bunk arm when it is lowering.

Crushing could cause serious injury or death.



STAY AWAY FROM OVERHEAD POWER LINES

Serious injury or death from electrocution can occur without contacting power lines.

Stay away from overhead power lines when transporting and operating equipment.



DO NOT ALLOW RIDERS ON THE MACHINE

Falling from the moving machine can cause serious injury or death.

Falling from the operating machine can cause being entangled under the machine or being injured by the machine.

KEEP STEPS AND WALKWAYS CLEAN

Dirty or slippery steps, walkways and platforms can cause falls.

Make sure these surfaces remain clean and free of debris.

Injury may result from slippery surfaces.

Face the machine when mounting and dismounting.



USE PAPER OR CARDBOARD TO CHECK FOR HYDRAULIC OR DIESEL FUEL LEAKS

The hydraulic system operates under extremely high pressure.

Hydraulic oil leaking under pressure can penetrate the skin, causing serious injury or infection.

Wear proper hand and eye protection when searching for leaks.

DO NOT use your hand to check for leaks. Use a piece of cardboard or paper.

Stop the engine, remove the key and relieve the pressure before connecting or disconnecting, repairing or adjusting hydraulic lines.

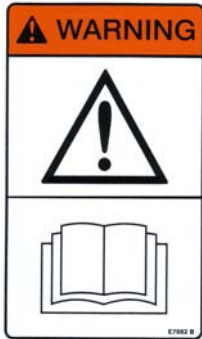
Make sure all components are in good condition and tighten all connections before pressurizing the system.

If hydraulic fluid penetrates the skin, seek medical attention immediately.

Continuous long term contact with hydraulic fluid may cause skin cancer. Avoid long term contact and wash the skin promptly with soap and water.

Do not attempt any makeshift repairs to the hydraulic fittings or hoses. The hydraulic system operates under extremely high pressure. Such repairs will fail suddenly and create a hazardous and dangerous condition.

READ, UNDERSTAND AND FOLLOW SAFETY INSTRUCTIONS



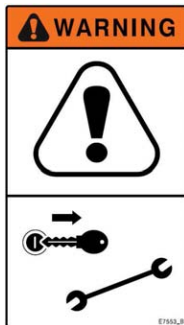
Read, understand and follow all instructions and safety messages included in this manual and on decals attached to the machine. These instructions and safety messages contain important information.

Allow only responsible, properly instructed individuals to operate and service the machine.

Failure to follow the instructions and safety messages in this manual and on the decals attached to the machine could result in serious injury or death.

Keep all safety and instruction decals in good condition. Replace any missing or damaged decals.

SHUT DOWN THE ENGINE BEFORE DISMOUNTING TRACTOR



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

Do not attempt to clean, lubricate, clear obstructions or make adjustments to the machine while it is in motion or while the engine is running.

DO NOT CONTACT A MOVING CHAIN



Contacting a moving chain or parts could cause serious injury or death.

Close and secure guards and shields before starting.

Keep hand, feet, hair and clothing away from moving parts.

Never attempt to manually remove material while hydraulic motors are moving the chain.

Always shut off the engine, remove key, set park brake and wait for all parts to stop moving before servicing.



EXPLOSION HAZARD!

Do not remove, install or make repairs to a tire on a wheel rim. Take the tire and rim to a tire shop. Always have a qualified tire mechanic service the tires and rims on this machine.

Failure to comply could result in death or serious injury.

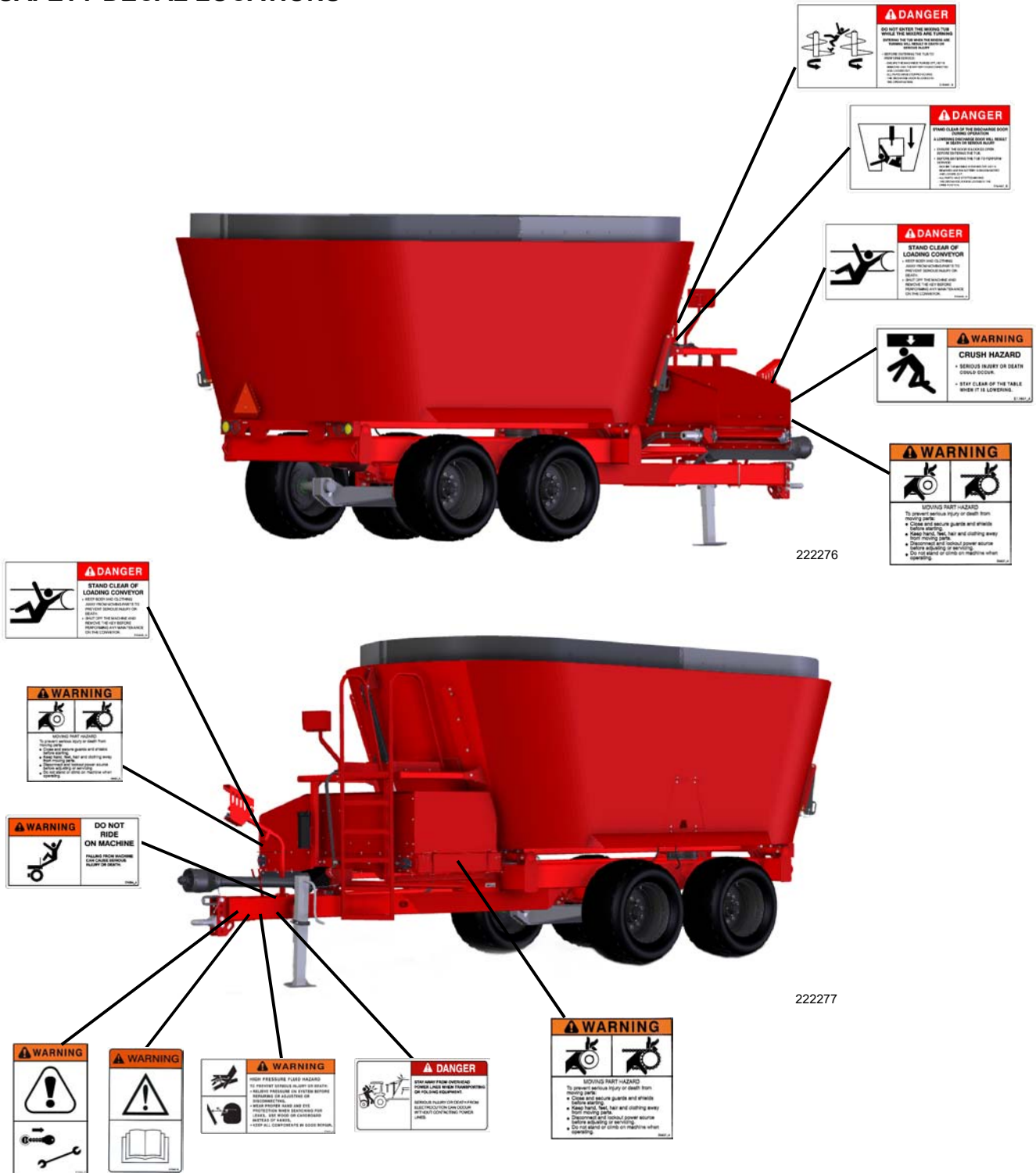


ENSURE SLOW MOVING VEHICLE SIGN IS IN PLACE

Ensure the Slow Moving Vehicle sign is in place, clean and easily visible.

Ensure the reflectors are in place, clean and easily visible.

SAFETY DECAL LOCATIONS



TRANSPORTING THE AMX850T



Only tow an unloaded AMX850T on public roads behind a properly sized and equipped tractor that has a weight of 33,000 lbs (14969 kg).

Do not tow behind a truck or other type of vehicle.

Check with local traffic regulations to transport on public roads.



Stay away from overhead power lines when transporting equipment. Electrocutation can occur without contacting power lines.



Do not allow any person to ride on the tractor or AMX850T. Falling off can result in serious injury or death.



Section 2 - Transporting the AMX850T

1. Tractor Requirements

- Roll Over Protection System (ROPS)
- Working seatbelts
- 1-3/8" 21 spline PTO
- PTO requirement
 - refer to the "Specifications" Section for the PTO requirements.
- 2 Spool Control Valves (SCV)
- Minimum 150 hp (112 Kw).
- To transport an unloaded AMX850T on public roads at 20 mph (32 km/h) use a properly sized and equipped tractor with a weight of 33,000 lbs (14969 kg).

2. Ensure the correct PTO speed.

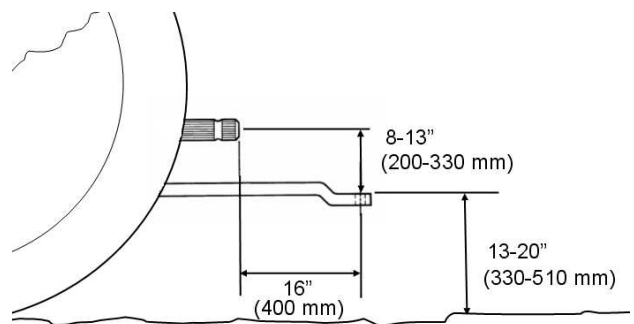
- Ensure that the tractor PTO speed matches the AMX850T's gearbox speed of 1000 rpm.
- Do not attempt to operate the AMX850T at a different PTO speed.

Note: Do not use PTO adapters. PTO adapters will cause a driveline failure and possible tractor damage. Your AMX850T warranty will also be invalid.



3. Adjust the tractor drawbar length.

- Set the drawbar length to 16" (406 mm) for a 1-3/8" 21 spline PTO.
- This length is measured from the tip of the PTO shaft end to the center of the drawbar hole. (Refer to your tractor's operator manual for drawbar adjustment procedures.)



Tractor Drawbar Adjustment

PTO Dimensions

Note: To prevent damage to the tractor drawbar, avoid traveling at high speeds and over rough terrain.

Section 2 - Transporting the AMX850T

4. Lift the hitch.

- Lift the hitch with the jack.
- The hitch is heavy. Do not attempt to lift it without using the jack.



Lift Hitch with the Jack

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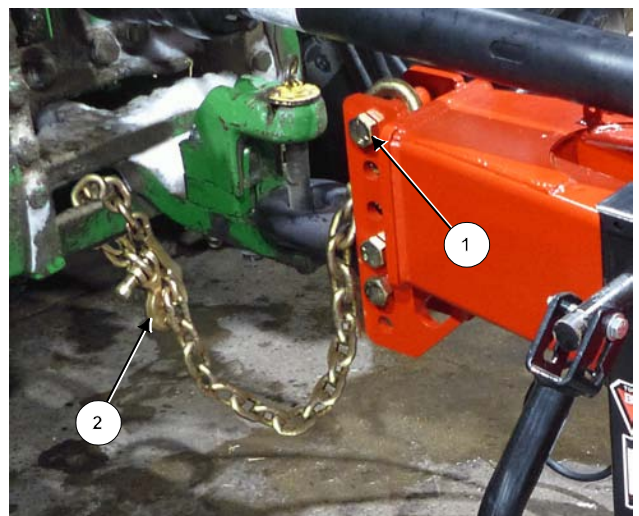
5. Connect the hitch to the tractor drawbar.

- Use a 1-1/2" (25 mm) pin.
- Secure with a hitch pin clip.

Note: If using a 1-1/4" hitch pin, order a 1-1/4" bushing from the Highline Parts department.

6. Connect the safety chain.

- Ensure the safety chain rating is equal or greater than the gross weight of the AMX850T.
- Route the safety chain around the upper safety chain bolt (1).
- Attach the chain to a secure location on the tractor.
- Fasten the chain hook with the hook lock (2).



Connect Safety Chain

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Section 2 - Transporting the AMX850T

7. Attach the driveline to the PTO.



Shut off the tractor engine before attaching the PTO driveline. Entanglement in the rotating driveline can cause serious injury or death.



The AMX850T shall not be operated without the driveline shields in place.

- Shut off the tractor engine and remove the key.
- Check that the driveline telescopes easily and that the shields are in good condition and rotate freely.
- Lift the tractor PTO shield.



- Support the driveline, pull back on the yoke collar, align the splines by rotating the AMX850T driveline and push the driveline into the tractor PTO shaft until the collar snaps into place.
- Push and pull the yoke several times to ensure the driveline is locked. Do not pull on the collar as this will release the lock.
- Lower the tractor & hitch PTO shields into place.



Connect the Driveline to PTO

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Section 2 - Transporting the AMX850T

- Connect the chains on the driveline guards to the driveline shield and the tractor.
- Fold down the PTO support holder (1).
 - Failure to fold down the support may result in damage to the driveline.



Connect Driveline Cover Chains

222217

8. Attach the hydraulics.

- Clean the end of the hoses and the connection.
- Firmly push the hoses into the tractor receptacle according to user preference.
- Route the hoses so they do not interfere with moving parts.



Attach Hydraulics and Electrical

108008

9. Connect the lights.

- Connect the light plug into the appropriate tractor receptacle.
- Ensure the light cable does not interfere with or contact moving parts.

10. Place the hitch jack in the storage location on the frame.



Hitch Jack in Storage Location

222218

Section 2 - Transporting the AMX850T

11. Check the condition of the tires.

- Fill the tires to 41 psi (283 kPa).
- Ensure that the flat portion of the wheel stud washer is against the wheel rim.
- Torque the lug nuts to 300 lb-ft (407 Nm).



Check the Tires

222219



Flat of Washer Against Rim, Torque the Nuts

217100

12. Ensure the tub door is closed.



Ensure the Tub Door is Closed

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Section 2 - Transporting the AMX850T

13. Turn off the screws when the tub is empty.



Turn Off Screws When Tub Is Empty

222222

14. Turn off the unload conveyor.



Turn Off the Conveyor

222223

15. Ensure that the Slow Moving Vehicle (SMV) sign is clean and visible.



Do not tow behind a truck or other type of vehicle.

Check with local traffic regulations to transport on public roads.

- Do not exceed 20 mph (32 km/h).
- Only tow an unloaded AMX850T on public roads behind a properly sized and equipped tractor that has a weight of 33,000 lbs (14969 kg).



Ensure the SMV is Visible

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PREPARING THE AMX850T

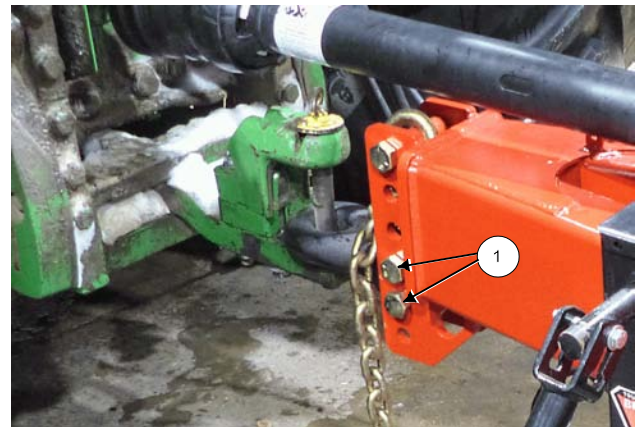
1. Park the tractor and AMX850T on level ground.
 - Engage the tractor parking brake and shut down the tractor.



Park on Level Ground

222315-2

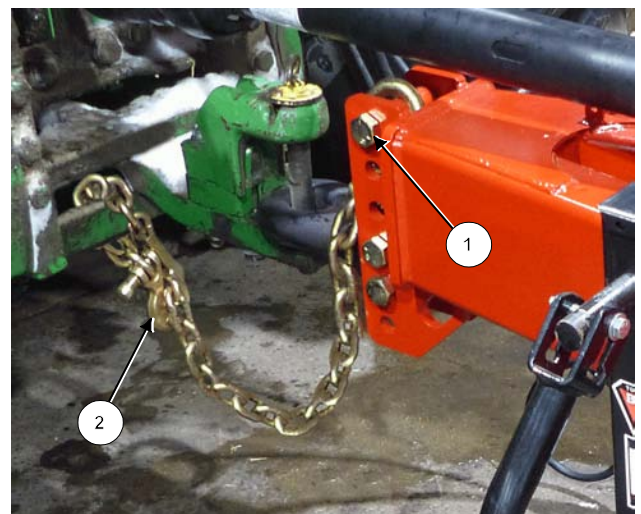
2. Adjust the height of the hitch tongue.
 - Level the frame of the AMX850T.
 - Adjust the hitch tongue height to connect with the tractor drawbar while keeping the frame level.
 - Remove the tongue bolts (1) to adjust position.
 - Fasten the tongue in place and torque the bolts (1) to 210 ft-lbs (285 Nm).



Adjust the Height of the Hitch Tongue

22250C

3. Connect the safety chain.
 - Ensure the safety chain rating is equal or greater than the gross weight of the AMX850T.
 - Route the safety chain around the upper safety chain bolt (1).
 - Attach the chain to a secure location on the tractor.
 - Fasten the chain hook with the hook lock (2).



Connect Safety Chain

222215C

Section 3 - Preparing to Use the AccuMix AMX850T

4. Attach the driveline to the PTO.

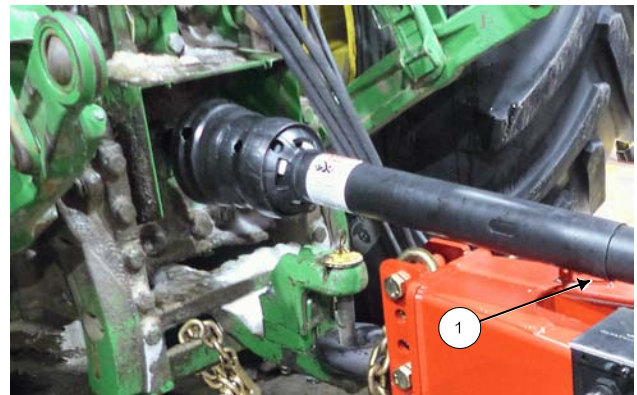


Shut off the tractor engine before attaching PTO driveline. Entanglement in the rotating driveline can cause serious injury or death.



The AMX850T shall not be operated without the driveline shields in place.

- Shut off the tractor engine and remove the key.
- Check that the driveline telescopes easily and that the shields are in good condition and rotate freely.
- Lift the tractor PTO shield.
- Support the driveline, pull back on the yoke collar, align the splines by rotating the AMX850T driveline and push the driveline into the tractor PTO shaft until the collar snaps into place.
- Push and pull the yoke several times to ensure the driveline is locked. Do not pull on the collar as this will release the lock.
- Fold down the PTO support holder (1).
 - Failure to fold down the support may result in damage to the driveline.
- Lower the tractor & hitch PTO shields into place.
- Connect the chains on the driveline guards to the driveline shield and the tractor.



Connect the Driveline to PTO

222216C



Connect Driveline Cover Chains

222217

Section 3 - Preparing to Use the AccuMix AMX850T

5. Inspect all the hydraulic motors, cylinders and hoses.



Use a piece of cardboard or heavy paper to check for leaks. Do not use your hand. Wear proper hand and eye protection when searching for leaks.

Relieve pressure on the hydraulic system before repairing, adjusting or disconnecting.

- Visually inspect all the hydraulic hoses and fittings.
 - See Section 5 "Maintaining" for conditions indicating that replacement is needed.

6. Visually check that the tub does not have any build up or foreign material in it.



Do not enter the tub while the mixers are turning.

Entering the tub when the mixers are turning will result in death or serious injury.

Do not lean over the mixing tub while the screws are turning to avoid the danger of falling into the tub.

Do not enter the tub with material in the tub.

The material is unstable and may cause entrapment.

There is no means of exiting the tub when the tub is full.

7. Visually check that the screws are in good condition.



Check All Hydraulics

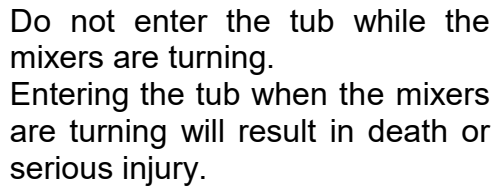
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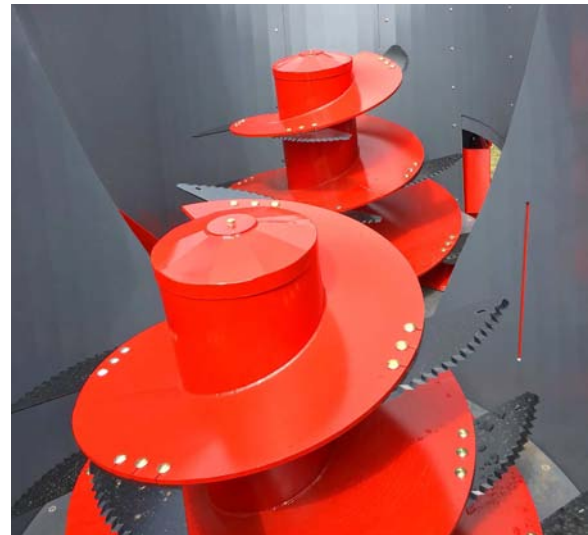
Check for Build Up in the Tub and the Condition of the Screws

219255

8. Check the condition of the knives installed on the screws.



- Note: See Section 5 "Maintenance" for more information on the knives.



219264

-
- A black and white photograph of a metal tool, possibly a pry bar or crowbar, lying on a dark surface. The tool has a long, flat head with a serrated edge and a handle with a yellow ring attached to it.

219256C

Section 3 - Preparing to Use the AccuMix AMX850T

10. Check that the front unloading tub door works.
- Extend and retract the door cylinder to check for easy movement of the door.



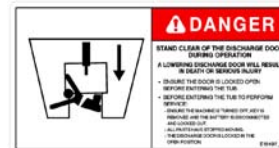
Check the Front Tub Door Works

219265

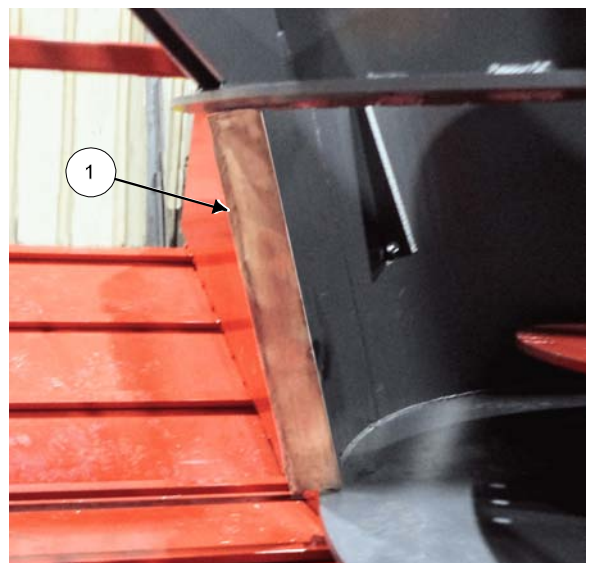
11. Take precautions if it is required to enter the tub.



Stand clear of the discharge door during operation.
A lowering discharge door will result in death or serious injury.



- Ensure all parts have stopped moving before entering an empty tub to perform service.
- Raise the tub door.
- Support the door (1) to ensure that the door does not close causing entrapment.



Raise and Support the Tub Door

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Section 3 - Preparing to Use the AccuMix AMX850T

12. Check that the unload conveyor operates and moves freely.



Check that the Unload Conveyor Works

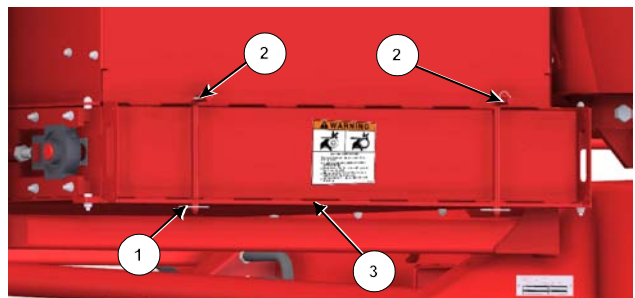
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13. Clean out the material on the bottom of the conveyor.



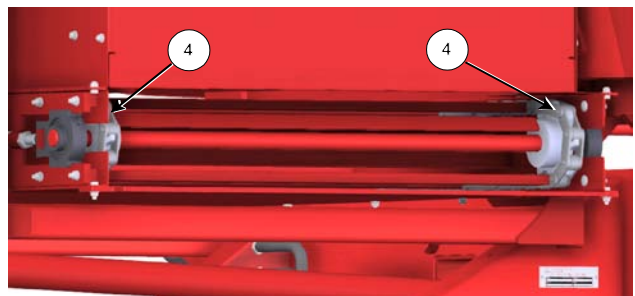
Keep body and clothing away from moving parts to prevent serious injury or death.

- Remove the spring pins (1) from the two shield retainers (2)
- Remove the shield retainers (2) from the clean out door (3).
- Remove the clean out door (3).
- Clean the conveyor chain sprockets (4).
- Use compressed air or a broom to remove any material located on the spill guard sheet that is under the conveyor.
- Place the clean out door (3) back into position.
- Replace the two shield retainers (2).
- Fasten the shield retainers (2) with the spring pins (1).



Clean the Conveyor Spill Collector

222247C



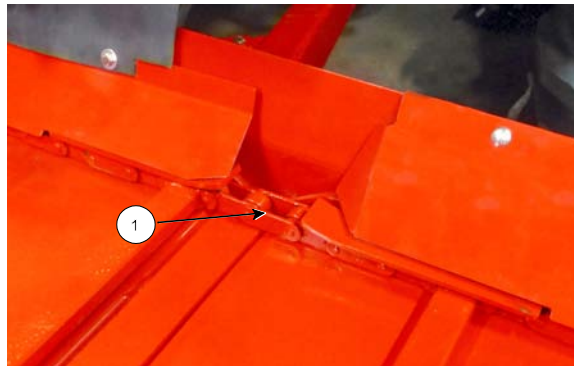
Clean the Conveyor Sprockets

222248C

Section 3 - Preparing to Use the AccuMix AMX850T

14. If the flip up conveyor or the dog leg conveyor option is installed, check that the pivot points (1) on both sides are clear of debris.

- Check there is no debris lodged in the chains.



Check the Flip Up/Dog Leg Conveyor is Free of Debris

220200C

15. On the flip up unload conveyor check that the end of the conveyor raises/lowers for bunk height adjustment.

- Operate the hydraulic cylinder to move the bunk arm.



Stay clear of the flip up unload conveyor when it is lowering. Crushing could cause serious injury or death.



Check that Flip Up Conveyor Raise/Lowers

222273

16. Check that the mixing screws in the tub operate normally.

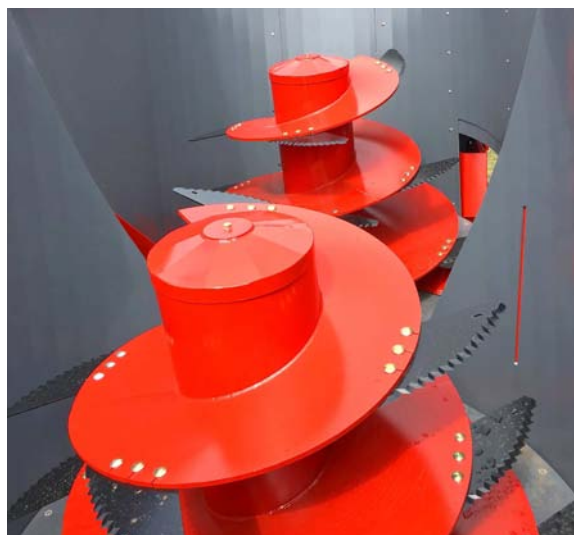
- The mixing screws must be able to turn before loading any material.



Do not enter the tub while the mixers are turning. Entering the tub when the mixers are turning will result in death or serious injury.

Do not lean over the mixing tub while the screws are turning to avoid the danger of falling into the tub.

Do not contact the rotating screws.



Check that the Mixing Screws Turn

219264

Section 3 - Preparing to Use the AccuMix AMX850T

17. Check the oil level for the mixing screw drive boxes.

- The oil level indicator is located on the left side of the tub.
- Check the level when the oil is cold.
- Ensure that the oil level is near the middle of the sight glass.
- See Section 5 "Maintenance" for filling procedures.



Check the Oil Level for the Mixing Screws

222249

18. Check the condition of the tires.

- Check that the tire sidewalls and treads are in good condition.
- Fill with air to 41 psi (283 kPa).



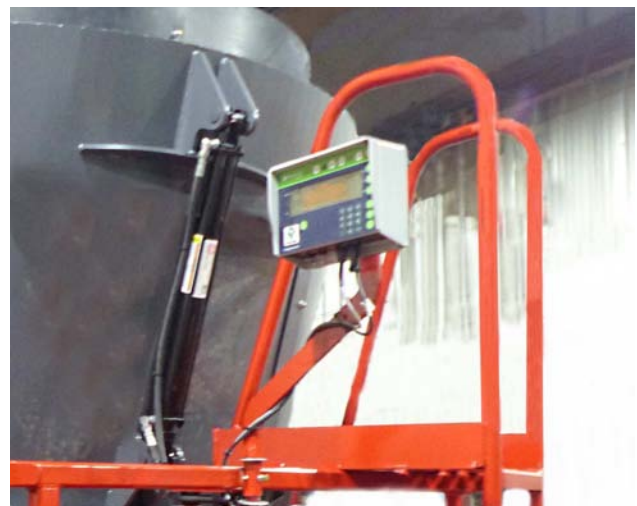
Check the Condition of the Tires

222313

19. Check that the weigh scale display is working.

- Refer to the Weigh Scale Manual for Information.

Note: For the calibration procedure of the weigh scale See Section 5 "Maintenance".



Check the Weigh Scale Monitor Is Working

222226

20. If the optional second weigh scale display is present, check that it is working.



Optional Second Weigh Scale

222274

21. If the optional tub camera is present, check that the camera display is working.
- Check the camera monitor for a clear image of the mixing tub area.
 - Check the camera monitor for a clear image from the camera at the rear of the tub.



Optional Camera Display

222246

22. Lubricate all grease fittings. See Section 5 "Maintenance" .
23. Ensure all fasteners are tightened.

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Operating the AMX850T

Cutting and Mixing - General Considerations

Note: It is highly recommended to consult with a feed nutritionist when planning the rations, the mixing time and cut length. A feed nutritionist is able to provide the information needed to optimize the ration mix that is best suited for the herd. Follow the nutritionist's recommendations to ensure the best results with the AccuMix AMX850T.

Note: It is the operator's responsibility to ensure that the materials in the feed mix are suitable for livestock feeding.

The cutting and mixing of materials with the AccuMix AMX850T will differ with the various feeds and the weather conditions. Mixing times will vary depending on the mix of materials. Follow the nutritionist's recommendations for mixing times to ensure the best results with the AccuMix AMX850T.

Mixing beyond a certain amount of time may cause the mix quality to deteriorate. An extended mixing time or a high speed of rotation causes heating of the product because of the contact with the surface of the screws and tub walls.

The ideal mix will be light, fluffy and uniform. Hays and straws will be cut cleanly at short lengths and no clumping of feed will be visible.

The regular use of a particle separator helps to ensure accuracy of the mix.

Loading Materials

1. Close the tub door.
 - Extend the door hydraulic cylinder to move the door down to the closed position.



Ensure Front Tub Door Is Closed

222221

2. Start the mixing screws at an appropriate speed.



Do not enter the tub while the mixers are turning. Entering the tub when the mixers are turning will result in serious injury or death.



Start the Mixing Screws

222222

Section 4 - Operating the AMX850T

3. Load the feeding materials over the edge of the tub.

Note: It is the operator's responsibility to ensure that the materials in the feed mix are suitable for livestock feeding. Some of the silage cover material will be discharged with the feed if the cover material is contacted by the rotating milling head.



Load Feeding Materials

222343

4. Monitor the weight of material being loaded by watching the weigh scale display.

Note: Refer to the weigh scale manual for information on using the weigh scale monitor.

- Add materials according to the ration recommended by the animal nutritionist.



Monitor Weight of Material Added

222226

5. Before loading bales remove the twine/wrap or other materials from the bales to prevent the twine/wrap or other material from being in the ration mix or becoming entangled in the machine.

Note: Pre-processing the bale material before loading will reduce the cutting of material time and the mix time.



Remove Wrap from Bales Before Loading

222227

Section 4 - Operating the AMX850T

6. Minerals or supplements can be loaded with a machine or with bags/pails from the loading platform.



Do not enter the tub while the mixers are turning. Entering the tub when the mixers are turning will result in death or serious injury.

Note: It is the operator's responsibility to ensure that the materials in the feed mix are suitable for livestock feeding. The mineral/supplement packaging material will be discharged with the feed if the packaging materials are allowed to enter the loading arm.



Supplements Can Be Added from the Platform 222226

7. When loading from overhead augers or piping, drive under the output so that the material will land near the center of the tub.

- Monitor the weight of material being loaded by watching the weigh scale display.

Note: Refer to the weigh scale manual for information on using the weigh scale monitor.

- Add materials according to the ration recommended by the animal nutritionist.



Loading from Overhead Auger

222254-2

Driving to the Feeding Site

1. Have the mixing screws turning while driving to the feeding site.
 - The turning screws will completely mix the materials.
 - The turning screws will prevent the load from settling and compacting.

Note: If traveling long distances to the unloading site, be aware that having the screws turning may:

- Cut the material more than desired.
- Cause material to separate out from the mix.
- Consult with the animal nutritionist for the appropriate mixing time.
- If the screws are turned off while traveling, be aware that the load may settle, especially with larger loads.
- Load settling may make it more difficult for the screws to begin rotating again.



Keep the Mixing Screws Turning

222240

2. Adjust the travel speed according to the terrain to maintain control and have the machine stable at all times.

Note: It is the operator's responsibility to decide if the weather, road or ground conditions permit safe operation on a hillside, slope, rough, slick or muddy surfaces.

Unloading the Mix



Stay clear of the unloading conveyor.

Contact with the conveyor could result in death or serious injury.

Keep body and clothing away from moving parts to prevent serious injury or death.



1. If the adjustable optional flip up conveyor is installed, activate the hydraulic cylinder to raise the conveyor to unload into the bunk.



Stay clear of the flip up unload table when it is lowering. Crushing could cause serious injury or death.



Raise the Flip Up Conveyor

222273

2. Start the unloading conveyor before opening the discharge door.

- The speed of the conveyor can be adjusted by adjusting the flow control at the tractor.
- Adjust the speed of the conveyor to suit the unloading requirements.



Start the Unload Conveyor

222309

3. Raise the tub door to control the amount of feed exiting the mixing tub.



Open the Tub Door to Control Flow of Mixed Material

222235

- There are number indications on the side of the tub to give a reference point for how much the tub door is open.



Indications for Door Opening

222224

4. Drive forward to distribute the feed.
5. Control the amount of feed discharged at each feeding spot by adjusting the following:
 - Tub door opening
 - Mixer speed
 - Driving speed



Unload at the Feeding Site

222238

6. Monitor the scale indicator readings to evaluate the ration distribution to the unloading areas.

Note: Refer to the weigh scale manual for information on using the weigh scale monitor.

7. At the end of feeding empty any feed remaining in the mixing tub to prevent it from settling and compacting.



Monitor the Feeding Ration with the Weigh Scale Monitor

222226

Removing Settled Material That Is Causing the Mixing Screws To Not Turn



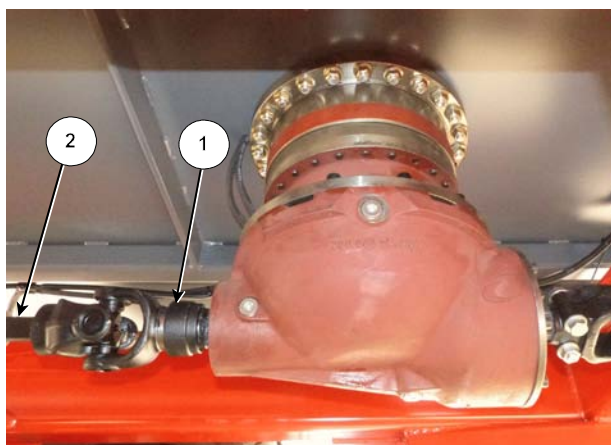
Shut down the engine before dismounting machine. Remove the key before doing this procedure.

Block the wheels of the machine to prevent any movement.



Disconnect the rear screw:

1. From underneath the machine disconnect the driveline coming out of the front screw gearbox.
 - This will allow the front screw to turn by itself.
 - Place a pipe wrench on the square sliding portion (2) of the drive line going to the rear screw.
 - Remove any torque that may be preventing the driveline quick connect (1) from being released.

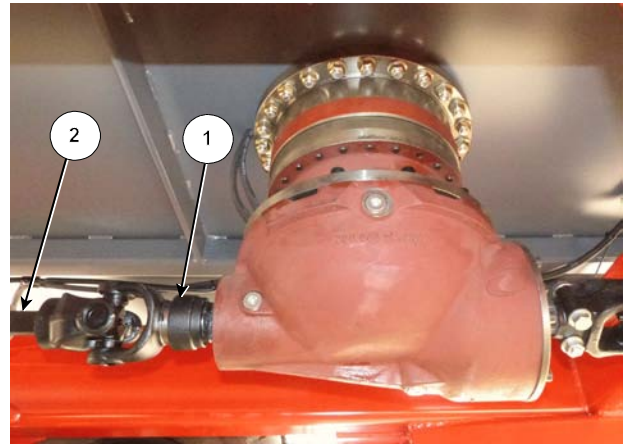


Disconnect Rear Screw Driveline

222239C

Section 4 - Operating the AMX850T

- Release the driveline quick connect (1) from the front screw gearbox.
 - Slide the driveline back.
 - Support the driveline going to the rear screw drive.
2. Open the front tub door.
 3. Start the conveyor.
 4. Start the front mixing screw to remove material in the tub.



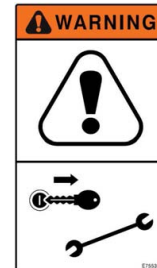
Disconnect Rear Screw Driveline

222239C

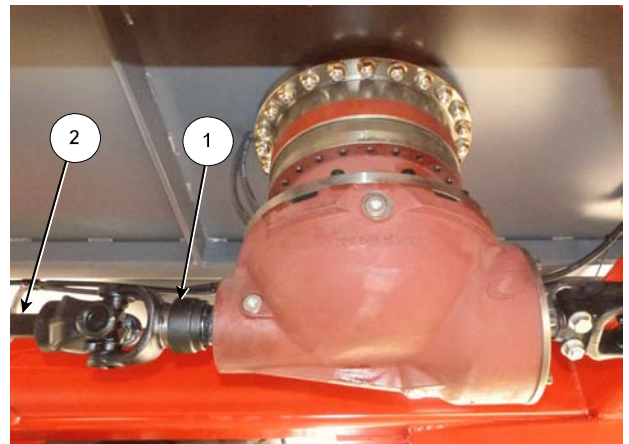
Reconnect the rear screw:



Shut down the engine before dismounting machine. Remove the key before doing this next procedure.



1. From underneath the machine reconnect the driveline going to the rear screw gearbox to the front gearbox.
 - Attach the driveline quick connect (1) to the front screw gearbox.
2. Open the front tub door.
3. Start the front conveyor.
4. Start the mixing screws to remove the remaining material in the tub.



Reconnect the Driveline to Rear Screw

222239C

Section 4 - Operating the AMX850T

Align the screws in the tub:

After all the material is removed from the tub the screws need to be positioned in the same orientation to each other.



Shut down the engine before dismounting the machine. Remove the key before doing this next procedure.

1. From underneath the machine disconnect the driveline coming out of the front screw gearbox.

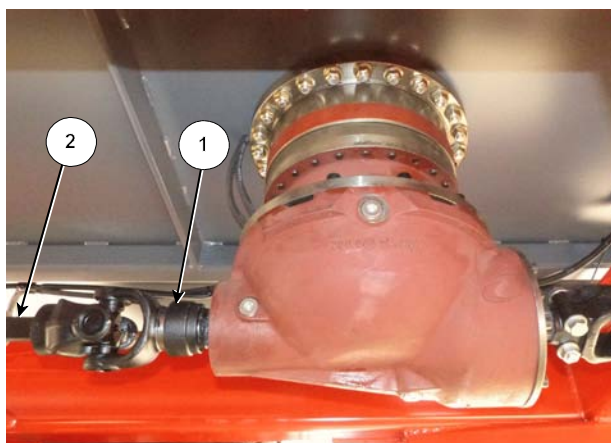
- This will allow the front screw to turn by itself.
- Place a pipe wrench on the square sliding portion (2) of the drive line going to the rear screw.
- Remove any torque that may be preventing the driveline quick connect (1) from being released.
- Release the driveline quick connect (1) from the front screw gearbox.
- Slide the driveline back.
- Support the driveline going to the rear screw drive.

2. Use a pipe wrench on the front gearbox shaft to turn the screw so that the leading edge of the front screw is in the same rotational position as the rear screw leading edge.

- Take care to not harm the splines on the gearbox shaft.

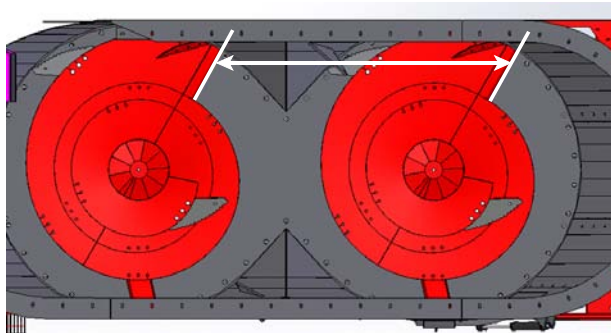
3. From underneath the machine reconnect the driveline going to the rear screw gearbox to the front gearbox.

- Attach the driveline quick connect (1) to the front screw gearbox.



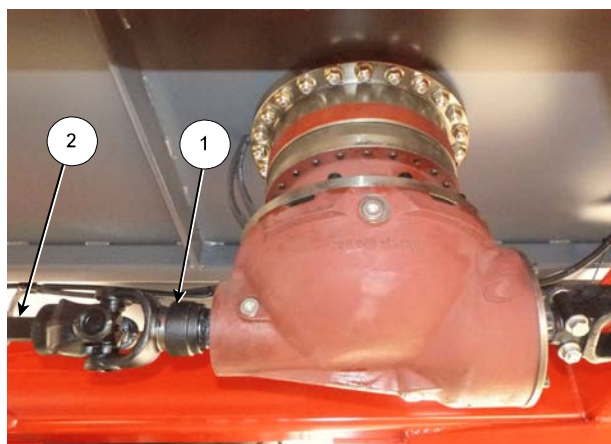
Disconnect Rear Screw Driveline

222239C



Leading Edge of Screws
in Same Position

219342C



Reconnect the Driveline
to Rear Screw

222239C

Maintenance of the AMX850T



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.



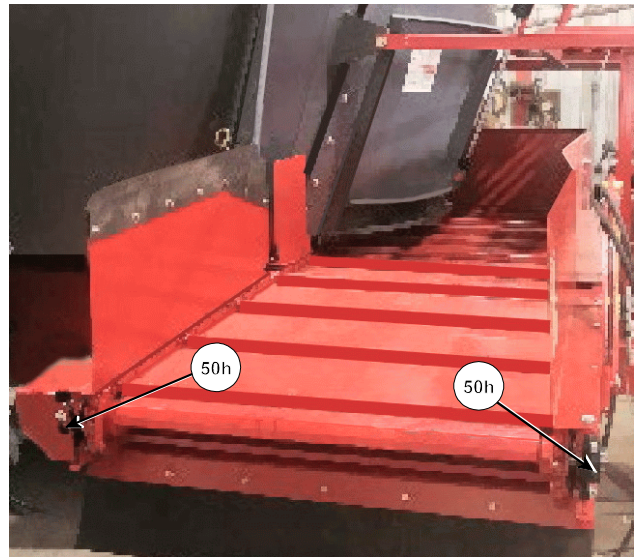
Lubrication - Grease

Lubricate all grease fittings with a quality lithium soap compatible E.P. grease meeting the N.L.G.I. #2 specifications and containing no more than 1% molybdenum disulfide.

- At each grease fitting clean off the fitting before attaching the grease gun.

Every 50 Hours

- Lubricate 2 bearings at the front of the conveyor.
 - One point through the motor shield on the left of the conveyor.
 - One point on the bearing on the right of the conveyor.
- Lubricate 2 bearings at the rear of the conveyor.
 - One point on each side of the conveyor.



Grease Conveyor Front Bearings
(Flat Conveyor Shown)

222236C

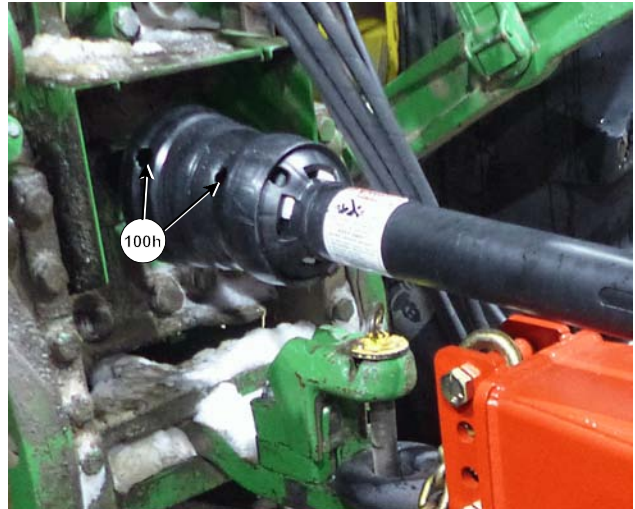


Grease Conveyor Rear Bearings

222252C

Every 100 Hours

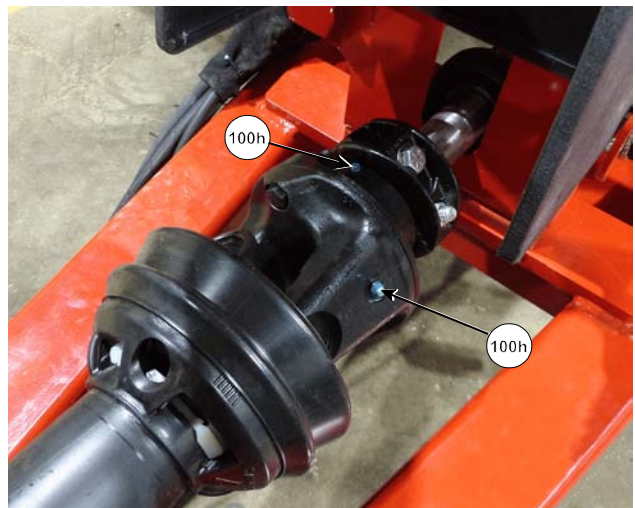
- Driveline at the tractor
 - 2 points on the driveline at the tractor PTO.



Grease Driveline at PTO

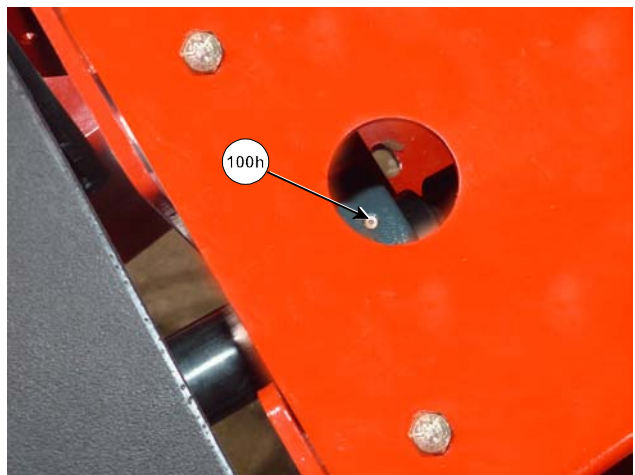
222258C

- Driveline to mixer.
 - Raise the driveline shield.
 - 2 points on the driveline at the mixer PTO.



Grease the Driveline at the Mixer

- Driveline Bearing on Mixer
 - 1 point that is accessed through a hole in the top of the bearing shield.



Grease the Driveline Bearing

222259C

Section 5- AMX850T Maintenance

- Mixing Screw Drivelines

Note: There are 2 different types of mixer drive boxes. The machine will have the same type drive boxes as a pair.

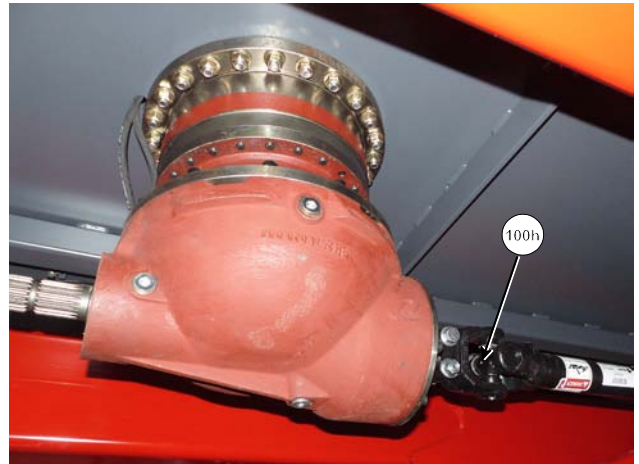
The Driveline to the 2 types of drive boxes are the same.

- 2 points on the joints at the front screw drivebox.
- 1 point on the slip portion of the shaft.
- 1 point on the joint at the rear screw drivebox.



Front Screw Driveline (Comer Drivebox Shown)

222255C



Rear Screw Driveline (Comer Drivebox Shown)

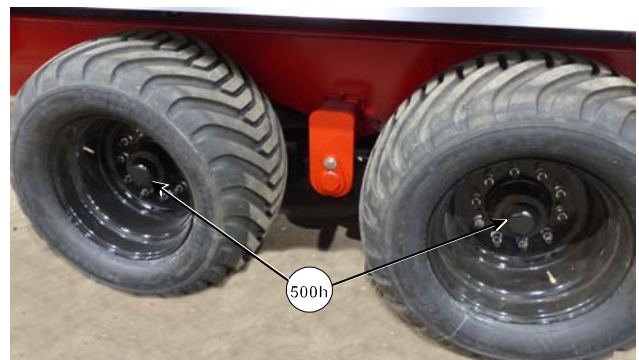
222256C

Every 500 Hours or Every Year

- Grease the wheel hubs

- 1 point on 4 hubs

Note: If working in heavy muddy conditions or areas with lots of moisture then grease more often.



Grease the Wheel Hubs

222219C

Every 2,000 Hours

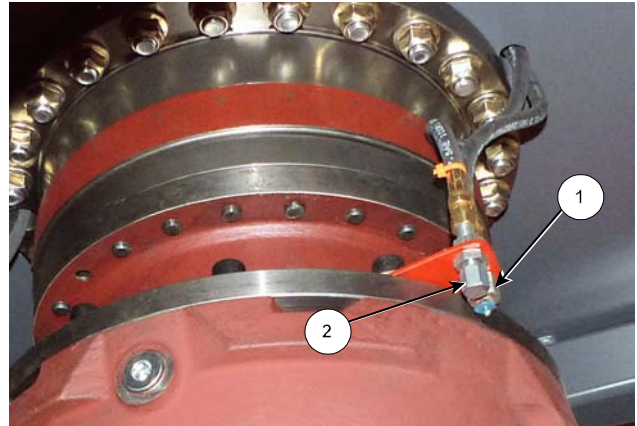
- Screw Drivebox Top Bearing on the Front and Rear Driveboxes

The front and rear screw driveboxes have remote grease locations for the top bearing. There are 2 grease lines at each remote location.

Note: The remote grease location is the same for both types of screw driveboxes.

Note: Grease in warm weather and with the gearbox warm for the best flow of grease.

- Use Shell GADUS S2 grease or similar.
- Remove the (2) grease line cap.
- Apply grease at the grease point (1) using a hand grease gun only.
 - Apply 20 pumps from the hand grease gun.
- Replace the grease cap (2) on the other line.



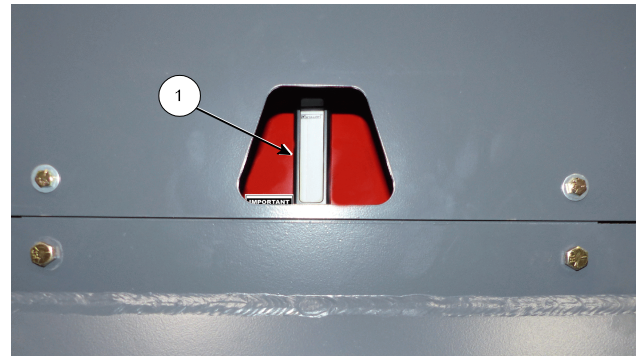
Grease Screw Drivebox Top Bearing
(Corner Drivebox Shown)

222268C

Mixing Screw Drivebox Oil

Note: There are 2 different types of mixer drive boxes. The machine will have the same type as a pair.

- The oil level indicator for both mixing screw gearboxes is located on the left side of the tub.
 - The drive boxes oil levels are linked together. The oil level in the tube indicates the oil level in both drive boxes at about the 80% full level.
- Compare the oil level to the decal beside the sight tube.
 - Check the oil level when the machine is cold.



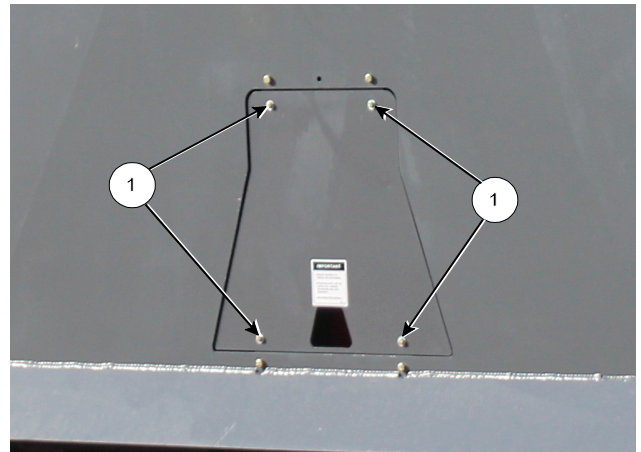
Mixing Screw Drivebox Oil Level

222249

To Fill the Driveboxes with Oil:

- On the left side of the mixer remove the four fasteners (1) holding the oil tank panel.
- Remove the oil tank cap (2).
- Fill with EP220 synthetic oil.

Note: Pour in oil in small amounts while giving time for the oil to run down the hoses into the gearbox and register in the level tube.



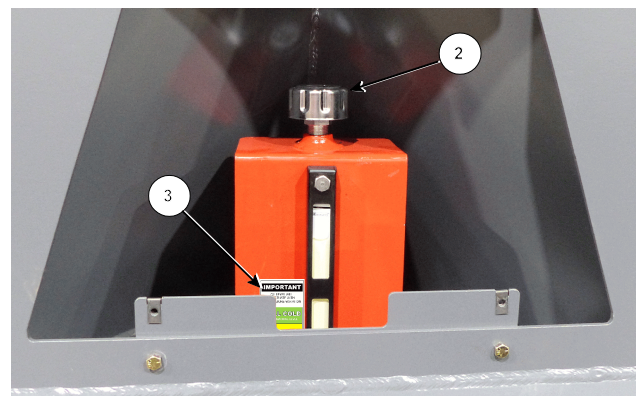
Remove the Oil Tank Panel

222260C

- Fill until the oil level is at the Full Cold level as shown on the decal (3) beside the sight tube.

Note: Do not overfill to prevent the breather port of the gearbox from being blocked.

- Replace the oil tank cap.
- Replace the panel over the oil tank.
 - Fasten the panel with the four fasteners (1).



Fill Oil Tank Through the Tank Cap

222261C

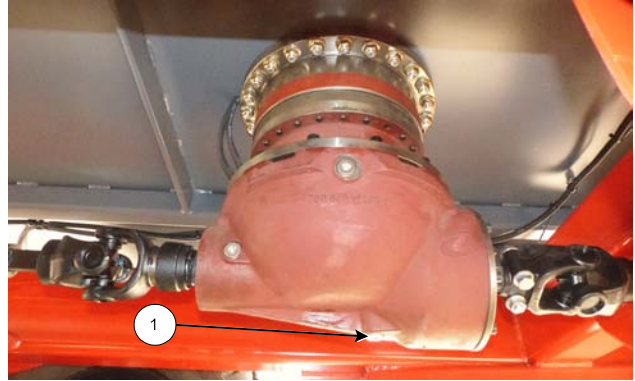
Changing Oil in the Screw Drivebox

Note: There are 2 different types of mixer drive boxes. The machine will have the same type as a pair.

The procedure of draining and filling with oil are the same for the different types.

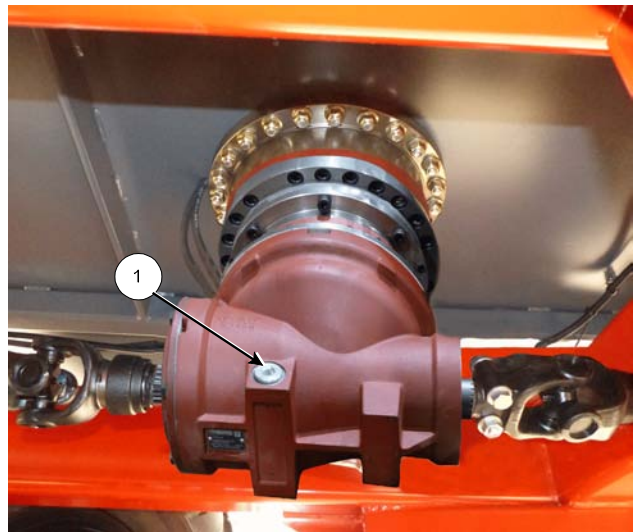
The drain and fill plugs are different on the 2 types of drive boxes.

1. Change the oil in the front and rear screw driveboxes according to the Maintenance Interval Schedule listed later.
2. Remove the drain plug (1) on the bottom of the drivebox to fully remove all the oil in the drivebox.
 - Catch the oil so it can be disposed of in a proper way.
3. Replace the drain plugs.



Drain Plug - Comer Drive Box

222255C2



Drain Plug - RR Drive Box

222262C

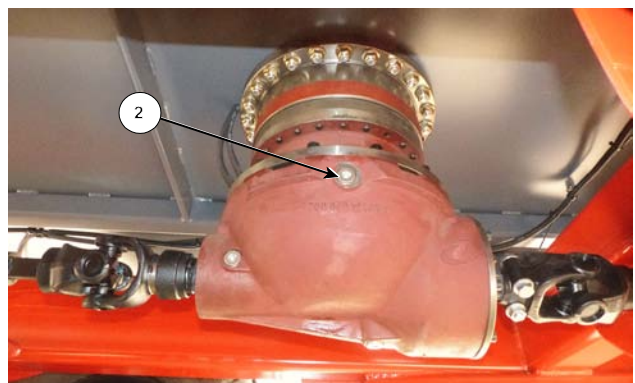
Filling the Screw Drivebox with Oil after Draining the Oil

Note: There are 2 different types of mixer drive boxes. The machine will have the same type as a pair.

The procedure of draining and filling with oil are the same.

The drain and fill plugs are different on the 2 types of drive boxes.

1. Remove the fill plug (2) located in the lower portion of the drive box.
2. Attach a hose to the fill plug port.



Fill Plug - Comer Drivebox (Front Drivebox Shown)

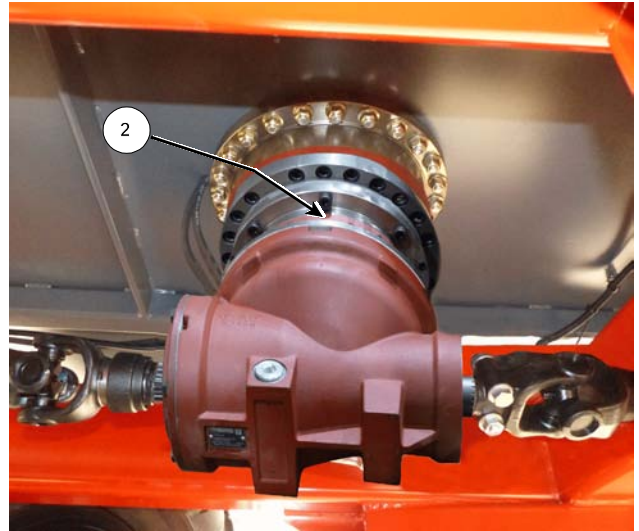
222255C3

Section 5- AMX850T Maintenance

3. Pump in EP220 synthetic oil until the oil is at the level indicated on the decal beside the sight glass.
 - For Comer Gearbox: Fill with approximately 24 liters of oil.
 - Top up according to the oil full level at the fill tank.
 - For RR Gearbox: Fill with approximately 20 liters of oil.
 - Top up according to the oil full level at the fill tank.

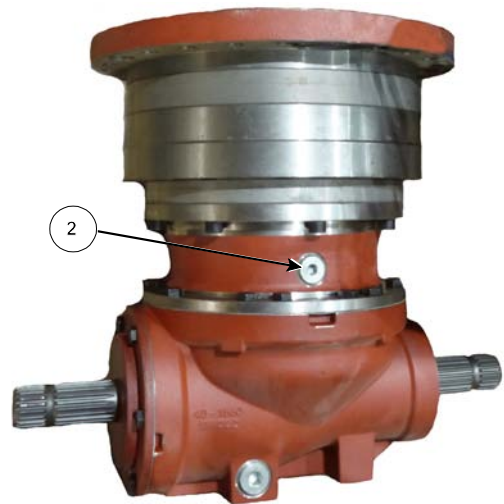
Note: Do not overfill as that will cause oil to come out of the top breather port of the drive box.

4. Disconnect the hose from the fill port.
5. Replace the fill port plug (2).



Fill Plug - RR Drivebox (Front Drivebox Shown)

222262C2



Detail - RR Drivebox Fill Plug

222263C

Wheel Nut Torque

- Ensure that the flat portion of the wheel stud washer is against the wheel rim.
- Torque the lug nuts to 300 lb-ft (407 Nm).

Tires

- Ensure the machine is on level ground.
- Ensure all tires are chocked.
- Check the tires for low pressure, cuts, bubbles.
- Check that the tire sidewalls and treads are in good condition.
- Check for damaged rims or missing lug bolts and nuts.
 - Have a qualified tire technician service the tires and wheels.
- Fill with air to 41 psi (282 kPa).



Flat of Washer Against Rim, Torque the Nuts

217100



Check the Tires

222313



Explosion hazard!

Do not remove, install, or make repairs to a tire on a wheel rim. Take the tire and rim to a tire shop to have a qualified tire mechanic service the tires and rims. Failure to comply could result in death or serious injury.



Tire Changing Procedure



Before beginning, make sure the tractor is turned off and the parking brake is set.



Securely block the mixer before any work is done around or under the machine.



Relieve hydraulic pressure and disconnect the hydraulic hoses.



1. Hitch the mixer to the tractor.
2. Block the mixer tires on the opposite side to prevent movement of the mixer.
3. Place a jack under the spindle tube of the tire to be changed.
4. Lift the spindle for sufficient clearance to remove the tire.
5. Put the new tire in place.
6. Ensure that the flat portion of the wheel stud washer is against the wheel rim.
7. Fasten the tire with the lug nuts.
 - Torque the lug nuts to 300 lb-ft (407 Nm).



Place Jack Under the Spindle Tube of Tire to be Changed

222219



Flat of Washer Against Rim, Torque the Nuts

217100

Visually Inspect Hydraulic Hoses/Fittings



The hydraulic system operates under extremely high pressure. Hydraulic oil leaking under pressure can penetrate the skin, causing serious injury or infection.

Shut down the machine and replace the hydraulic hose assembly if any of the following conditions exist:

- Fitting slippage on hose.
- Damaged, cracked, cut or abraded cover (any reinforcement exposed).
- Hard, stiff, heat cracked or charred hose.
- Cracked, damaged or badly corroded fittings.
- Leaks at fitting or in hose.
- Kinked, crushed, flattened or twisted hose.
- Blistered, soft, degraded or loose cover.



Visually Inspect the Hydraulic Cylinder

Shut down the machine and visually inspect the tub door hydraulic cylinder, looking for leaks and/or other damage.

- If hydraulic cylinder damage is found, make all necessary repairs or replace before operating the machine.



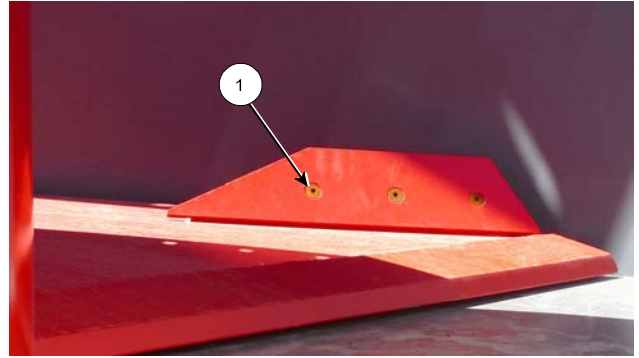
Inspect the Hydraulic Cylinder

222269

Adjust the Kicker Plate on the Screw Leading Edge

As the machine mixes material, the kicker plate edge will wear as it lifts material onto the screw.

- Adjust the kicker plate toward the outer edge on both screws.
- Loosen the fasteners (1) and slide the kicker plate to the edge of the screw.
- Tighten the fasteners (1) to hold the kicker plate.

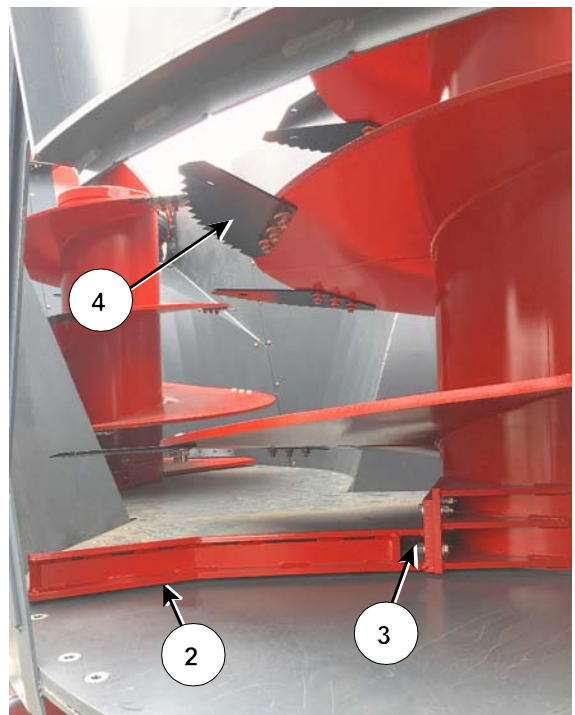


Adjust Kicker Plate to the Edge of the Screw

220138C

Adjust the Screw Sweeper

If the screw sweeper (2) is contacting the tub floor, add shims between the sweeper and screw mount (3) to move the sweeper up for a small clearance from the tub floor.



Knives on the Screws

Knives (4) are installed on the screws. The knives nearer to the base of the screw are subject to the most wear.

- To help with uniform wear, exchange the lower knives with the upper knives.
- Replace the knives when they are worn or are no longer cutting material.



Do Not Enter the Tub While the Mixers Are Turning.

Entering the tub when the mixers are turning will result in death or serious injury.

Do not lean over the mixing tub while the screws are turning to avoid the danger of falling into the tub.

Do not contact the rotating screws. Never attempt to manually remove debris while the screws are rotating.

Screw Sweeper Clearance
Change or Replace the Knives

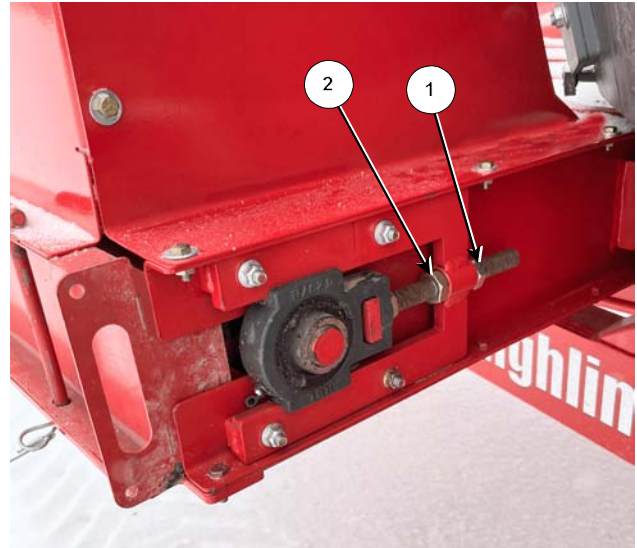
222267C



Adjusting the Unloading Conveyor Chains

- At the conveyor next to the left side of the tub:
 - Loosen the locking nut (1) on the tension adjusting bolt.

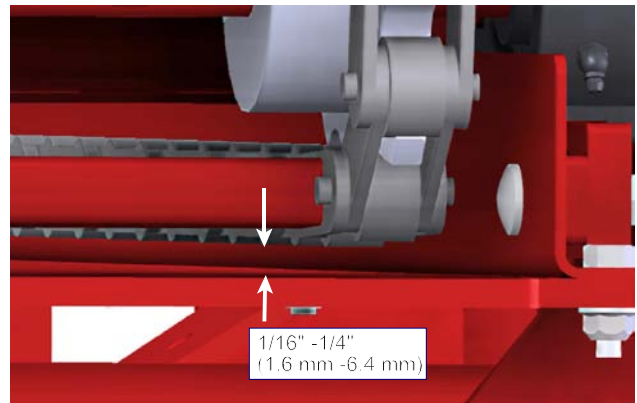
Note: If the flat conveyor is moved outward to the right then use the supplied special tool to adjust the locking nut and adjustment nut.



Rear Unload Conveyor Chain Tension Adjust 222327C

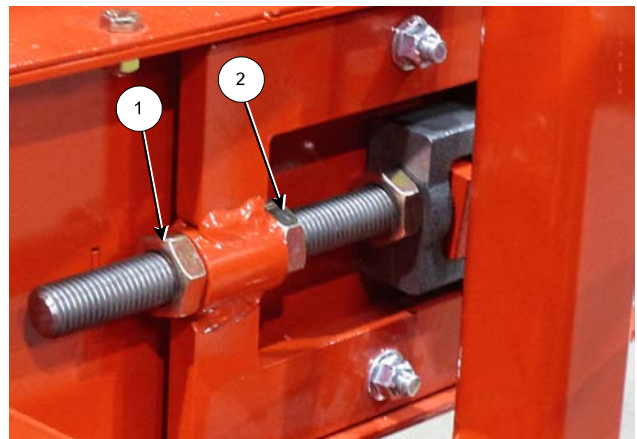
- Turn the adjusting nut (2) until the chain is 1-16" - 1/4" (1.6 mm - 6.4 mm) above the bottom panel.

Note: Adjust the flip-up conveyor chain tension when the conveyor is in the flat position. The chain tension will decrease when the conveyor is raised.



Chain Tension Adjustment Setting 222265C

- Tighten the locking nut (1).
-
- At the conveyor next to the front ladder:
 - Loosen the locking nut (1) on the tension adjusting bolt.
 - Turn the adjusting nut (2) until the chain hangs 1-16" - 1/4" (1.6 mm - 6.4 mm) above the conveyor bottom panel.
 - Tighten the locking nut (1).



Front Unload Conveyor Chain Tension Adjust 222266C

Recommended Service Interval Chart

Daily
Check Hydraulic Components for leaking
Check Mixer Screw Oil Levels
Remove Trash and Debris
Clean Backup Camera
Clean Tub Camera
Every 50 Service Hours
Grease Points as Indicated in this Section
Check Wheels
Check Tire Lug Nuts
Check Tire Inflation
Every 100 Hours
Grease Driveline Shafts
Grease Screw Drive Shafts
Every 500 Service Hours or Every Year
Check Mixing Screw Gearbox Seals and Screw Tightness
Check Wheels and Bolt Torque
Grease the Wheel Hubs
Every 2000 Service Hours
Change the Oil in the Mixing Screw Driveboxes
Check Tightness of Screws on Mixing Screw Drivebox
Grease the Top Bearing of the Screw Gearboxes
Every 5000 Service Hours
Check And/Or Replace the Seals of the Screw Planetary Gearbox

Calibration Procedure for DigiStar/TopCon Display Weigh Scale

DIGISTAR 2805 Calibration Procedure:

- Power On, Wait for it to boot up.
- Push: **Select** Repeatedly until "Setup" Appears.
- Immediately push and hold: **Function** until Setup reappears.
- Type: **145020**
- Push: **On** (then it should say "Storing" so just wait).
- Type: **36931**
- Push: **On**, then it goes back to Displaying Weight.
- Calibration Is complete.
- Scale Is ready to zero.

Max Weight Calibration:

- Push: **Select** repeatedly until "Menu" appears.
- Immediately Push and Hold: **Function** until it starts giving directions.
- Push: **Select** until "Menu 3" Appears.
- Push: **Enter** to Get into Menu 3.
- Push: **Enter** again to skip "Display Unit".
- Push: **Enter** again to skip "Auto Range" Option.
- Push: **Enter** again to skip "Display Unit Lb-kg" or **Select** then On to Modify.
- Cap Will Be Shown Now.
- Type: **30000**
- Push: **On** to Save.
- Push: **Off**

DIGISTAR 2810 Calibration Procedure:

- Power On
- Type: **8711**
- Push: **Select**
- Type: **145020**
- Push: **Enter**
- Type: **8712**
- Push: **Select**
- Type: **36931**
- Push: **Enter**
- Type: **3002**
- Push: **Select**
- Type: **30000** (To Enter 30000 Lb Max Capacity)
- Push : **Enter**
- Calibration Is Complete.
- Scale Is Ready to Zero.

Calibration Procedure for Dinamica Generale DG500 Weigh Scale

1. Turn on the weigh scale.
2. Hold down Enter as soon as it says on the screen to "Hold Enter" to get into Setup.
3. At the System Configuration screen choose option 6, "Setup Protected by Password".
4. Use up/down arrows to Enter password 12.
5. Confirm with the Enter key.
6. Use the up/down arrows to change the calibration number to 7680.

CALIBRATION NUMBER = LOAD CELL CAL (1920) X
NUMBER OF CELLS (4) =7680

7. Press Enter to confirm the entered value.



To Fine Tune the Weight on Dinamica Generale DG500 Weigh Scale:

1. Turn on the weigh scale.
2. Hold down Enter as soon as it says on the screen to "Hold Enter" to get into Setup.
3. At the System Configuration screen choose option 6, "Setup Protected by Password"
4. Enter password 67.
5. Confirm with the Enter key.
6. Use the up/down arrows to change the adjustment factor percentage.
7. Press Enter to confirm the entered value.



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Section 6 - Storing the AMX850T

Storing the AMX850T

1. Clean all the debris off the machine.



Clean Debris from the Machine

222315-2

2. Remove all material that is inside the tub.



Remove all Material from the Tub

222222

4. Place the jack onto the hitch.

- Remove the jack from the storage position.
- Pin the jack in place on the hitch.
- Ensure that the jack is resting on solid level ground or resting on a wood block.
- Raise the hitch until the weight is supported by the jack.
 - The hitch is heavy. Do not attempt to lift it without using the jack.



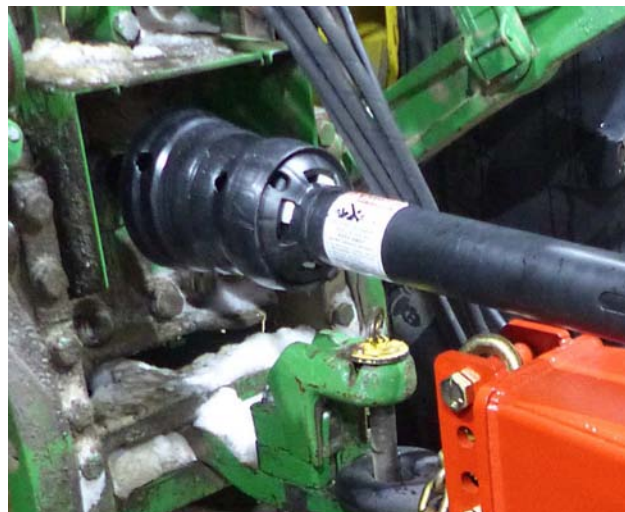
Lift Hitch with the Jack

222214

Section 6 - Storing the AMX850T

5. Raise the tub door a small amount to let any water that collects to drain out from the tub.
 - Support the tub door so it does not lower.

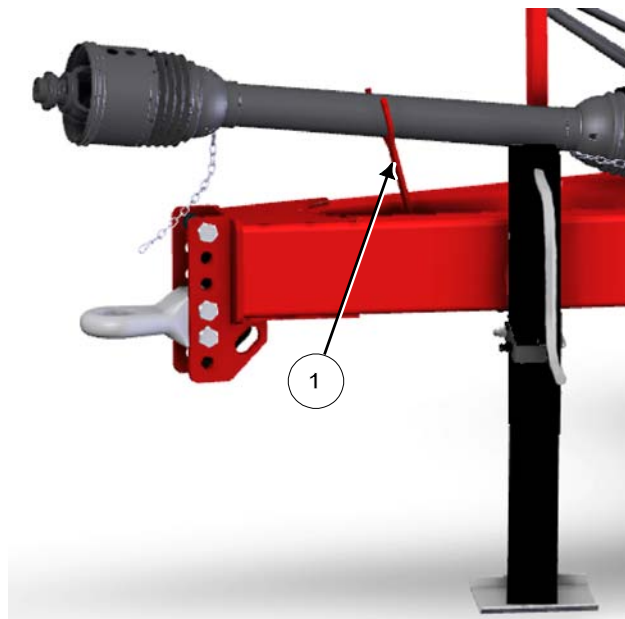
6. Remove the driveline from the tractor PTO shaft.
 - Disconnect the chain on the driveline guard from the tractor.



Disconnect the Driveline from the Tractor

222258

7. Place the driveline into the driveline support (1).



Place the Driveline into the Driveline Support

222271C

Section 6 - Storing the AMX850T

8. Disconnect the safety chain from the tractor.
9. Remove the hitch pin from the tractor.



Disconnect Safety Chain from Tractor
Remove the Hitch Pin

222215

10. Relieve the pressure on the hydraulic hoses and disconnect them.
11. Disconnect the electrical connection.



Disconnect Hydraulic Hoses & Electrical

108008

12. Secure the hydraulic hoses and electrical connector to the hose holder to keep them clean and off the ground.
13. Tighten all bolts to the recommended torque.
14. Check the machine for worn and damaged parts. Replace as needed.
15. Touch-up the paint to prevent rusting.



Place Hydraulic Hoses and Electrical Connector
Into the Holder

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Troubleshooting

Mixing Screws

Symptom	Problem	Solution
Screws will not start or they stop during operation	Load is heavy material	Load less material in the tub.
	Load has settled	Follow the procedures outlined in Section 5 for "Removing Settled Material That Is Causing the Mixing Screws To Not Turn".
Screw not cutting material	Aggression Bars	Move the aggression bars into the tub for more material cutting.
	Knives	Knives are dull. Exchange the lower knives that get more wear with the upper knives. Replace with new knives.
PTO and screws not turning	Driveline shear bolt	Replace shear bolt on drive line
Rear Mixing Screw Not Turning	Screw Driveline	Check that the driveline from the front mixing screw drivebox is connected to the rear mixing screw drivebox.

Unload

Symptom	Problem	Solution
Tub door does not open	Hydraulic cylinder	Check hydraulic connections
Unload conveyor does not turn	Hydraulic motor	Check the hydraulic connections at the motor.
	Material caught in the conveyor chains	Remove material from the chains.
	SCV not supplying enough hydraulic flow	Increase the flow rate at the SCV

Section 7 - Accumix AMX850T Troubleshooting

Material spills over sides of conveyor	Too much material released from tub	Control the amount of material coming from tub by controlling the tub door.
Not enough material comes out of tub door	Mixing Screw Speed	Increase the speed of the mixing screws to move more material out.
Optional Flip Up conveyor does not lift	Hydraulic Cylinder	Check the connections to the hydraulic lift cylinder.

Weigh System

Symptom	Problem	Solution
Weigh scales do not seem to show correct weight	Connection to the weigh bar	Check for good wire connections at all 4 weigh bars.
	Calibration of the weigh scales	Follow the scale calibration procedure as indicated in the Weigh Scale Operator manual.

Section 8 - Accumix AMX850T Specifications

Machine Specifications

Tub		
Capacity	745 ft ³	21 m ³
With tub extension	854 ft ³	24 m ³
Number of Screws	2	
Screw Speed	33 rpm @1000 PTO	
Aggression Plates	2	
Weigh System	4 Point Weighing System	

Dimensions and Weights		
Unloaded Weight (with flat conveyor)	22,000 lb.	9,979 kg
Max Payload	32,000 lb at 5 mph	14,515 kg at 8 kph
Length	316 in.	8.03 m
Height Standard	114 in.	2.90 m
Height with Extension	124 in.	3.15 mm
Width with Flat Conveyor	109 in.	2.77 m
Wheel Track Width	108 in.	2.73 m

Unloading		
Conveyor	Chain with Steel Slats	
Unload Height	30 in.	760 mm
Flat Conveyor	36 in.	914 mm
Dogleg Conveyor	50 in.	1270 mm
Folding Conveyor	36 - 60 in.	914 - 1524 mm
Unload Door Width	58 in.	1473 mm

Section 8 - Accumix AMX850T Specifications

Drivetrain		
Minimum HP	150 hp	112 kW
Drivetrain		
From Tractor	CAT 8 Constant Velocity 1-3/8", 1-3/4"	
Between Gearboxes	CAT 6 PTO, Shear Protection, 1-3/4" 1000 RPM	
Tires	550/45-22.5 16 Ply	
Suspension	Tandem Walking Beam	

Note: Right/left hand is determined by sitting in the tractor looking forward.

Highline New Equipment Limited Warranty Policy

One (1) Year / 12 Months - Parts and Labour

Highline Mfg. (hereinafter "Highline") warrants this new product of Highline's manufacturer to be free from defects in material and workmanship, under normal use and service for one (1) full year after initial purchase/retail sale. Highline will warrant its product for one (1) year parts and labour, if performed by a qualified Dealer. This Limited Warranty shall apply only to complete machines of Highline's manufacture. Parts are covered by a separate Limited Warranty.

EQUIPMENT AND ACCESSORIES NOT OF HIGHLINE'S MANUFACTURE ARE WARRANTED ONLY TO THE EXTENT OF THE ORIGINAL MANUFACTURER'S WARRANTY AND SUBJECT TO THEIR ALLOWANCE TO HIGHLINE ONLY IF FOUND DEFECTIVE BY SUCH MANUFACTURER.

During the Limited Warranty period specified above, any defect in material or workmanship in any warranted item of Highline Equipment not excluded below shall be repaired or replaced at Highline's option without charge by any authorized independent Highline Dealer. An authorized Dealer must make the warranty repair or replacement. Labour in accordance with Highline's labour reimbursement policy. Highline reserves the right to supply remanufactured replacement parts as it deems appropriate.

RETAIL PURCHASER RESPONSIBILITY

This Limited Warranty requires proper maintenance and periodic inspections of the Equipment as indicated in the Operator's Manual furnished with each new Equipment. The cost of routine or required maintenance and services is the responsibility of the retail purchaser. The retail purchaser is required to keep documented evidence that these services were performed. This Highline New Equipment Limited Warranty may be subject to cancellation if the above requirements are not performed.

EXCLUSIONS AND LIMITATIONS

The warranties contained herein shall NOT APPLY TO:

1. Any defect which was caused (in Highline's sole judgement) by other than normal use and service of the Equipment, or by any of the following:
 - a. accident
 - b. misuse or negligence
 - c. overloading
 - d. of reasonable and proper maintenance
 - e. improper repair or installation
 - f. unsuitable storage
 - g. non-Highline approved alteration or modification
 - h. natural calamities
 - i. vandalism
 - j. parts or accessories installed on Equipment which were not manufactured or installed by Highline authorized Dealers
 - k. the elements
 - l. collision or other accident
2. Any Equipment whose identification numbers or marks have been altered or removed.
3. Any Equipment which any of the required or recommended periodic inspection or services have been performed using parts not manufactured or supplied by Highline or meeting Highline Specifications including, but without limitation, lubricants (oil, grease), belt lacings, and hydraulic fluids.
4. Any Equipment used in demonstrations not performed by a Highline Dealer. Warranty will be at the discretion of Highline for all other demonstration warranty.
5. New Equipment delivered to the retail purchaser in which the warranty registration has not been completed and returned to Highline within thirty (30) days from the date of purchase.
6. Any defect that was caused (in Highline's sole judgement) by operation of the Equipment not abiding by standard operating procedures outlined in the Operator's Manual.
7. Tire Limited Warranties and support are the responsibility of the respective product's manufacturer.
8. Transportation costs, if any, of transporting to the Highline Dealer.
9. In no event shall Highline's liability exceed the purchase price of the product.
10. Highline shall not be liable to any person under any circumstances for any incidental or consequential damages (including but not limited to, loss of profits, out of service time and damage to equipment which

- this equipment may be attached) occurring for any reason at any time.
11. Diagnostic and overtime labour premiums are not covered under this Limited Warranty Policy.
 12. Depreciation damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions, misuse, and/or lack of proper protection during storage.
 13. Accessory systems and electronics not of Highline's manufacture are warranted only to the extent of such manufacturer's respective Limited Warranty if any.
 14. Wear items which are listed by product group below:

COMMON WEAR ITEMS

Roller chain, sprockets, clutches, shear bolts, clutch components, chains, gearbox housings bolts/torqued parts, flails, feed roller belting, coupler chain, DRV couplers, bogie wheels, apron tines and hoses, blades and blade pans, blade bolts and nuts, skid shoes, chain guards, clutches and clutch components.

PARTS WARRANTY

Parts replaced in the warranty period will receive the balance of the one year New Equipment Limited Warranty. Replacement parts after the original machine warranty are warranted to be free from defects of material for ninety (90) days or the part will be repaired or replaced, without labour coverage for removal and reinstallation.

EXCLUSION OF WARRANTIES

UNLESS OTHERWISE REQUIRED BY LAW, AND EXCEPT FOR THE WARRANTIES EXPRESSLY AND SPECIFICALLY MADE HEREIN, HIGHLINE MAKES NO OTHER WARRANTIES, AND ANY POSSIBLE LIABILITY OF HIGHLINE HEREIN UNDER IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE. HIGHLINE RESERVES THE RIGHT TO MODIFY, ALTER AND IMPROVE ANY PRODUCT WITHOUT INCURRING ANY OBLIGATION TO REPLACE ANY PRODUCT PREVIOUSLY SOLD WITH SUCH MODIFICATION. NO PERSON IS AUTHORIZED TO GIVE ANY OTHER WARRANTY, OR TO ASSUME ANY ADDITIONAL OBLIGATION ON HIGHLINE'S BEHALF.

AMX850T Extended Service and Warranty Policy

Highline Manufacturing (referred to hereafter as Highline) warrants its new, unused, Agricultural Equipment to be free of defects in material and workmanship at time of the delivery according to the Highline New Equipment Limited Warranty Policy found at the end of each product manual. In exception to this Highline offers the supplemental information below:

1) 3-YEAR LIMITED EXTENDED WARRANTY REPAIR PERIOD

- 1st Year: Highline will repair or replace, at its option, without charge for parts or labor, any defective part of the equipment for a period of twelve (12) months from the warranty start date to the first retail purchaser (see base warranty policy).
- 2nd Year: Highline will repair or replace, at its option, without charge for parts, any Highline Manufactured Part that is found to be defective for the period of thirteen (13) months to twenty-four (24) months from the warranty start date to the first retail purchaser.
- 3rd year: Highline will repair or replace, at its option, for a charge of 50% of the parts, any Highline Manufactured Part that is found to be defective for the period of twenty-five (25) months to thirty-six (36) months from the warranty start date to the first retail purchaser.

NOTE: A Highline Manufactured Part is any part which has been manufactured by Highline Manufacturing. Parts purchased from an outside supplier are not considered to be manufactured by Highline. Purchased parts would include roller chain, hydraulic motors, hydraulic cylinders, bearings etc.

Any parts that are covered by an Extended Warranty published by Highline are an exception to the Basic Policy and are to be warranted as per the details of the Extended Warranty document. The Extended Warranty policy may change from time to time without prior notice from Highline.

2) SUPPLEMENTAL EXTENDED WARRANTY

- Mechanical mixer gearbox drive units: Highline will repair or replace, at its option, without charge for parts or labor, any defective mixer drive gearbox and/or components for a period of 24 months from the warranty start date to the first retail purchaser. The mixer drive gearbox will be warranted against any defects in material and/or workmanship under normal use and while being maintained in accordance with the Operator manual or supplemental instructions. This supplemental warranty will require the submission of oil samples.

3) EXCEPTIONS TO THIS WARRANTY

- In no event shall the owner be entitled to recover costs for incidental, special or consequential damages such as, but not limited to: loss of profit or revenue, other commercial losses or inconvenience.
- Repair, Maintenance, and Service items not related to defects:
 1. Loss or damage during shipment.
 2. Failure resulting from lack of or improper maintenance.
 3. Damage caused by operator abuse, negligence, or improper operation.
 4. Non-defective items replaced due to customer demand unless authorized by the Highline Service Department.
 5. Non-reimbursable maintenance items including but not limited to oil, grease, chains, etc.
 6. Any and all costs for repairs or replacement of parts not shown to be defective.
 7. Damage due to accidents.

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