



Classic Manure Spreader
PTO Drive Models 50 -125
Setup Guide



**Model P130 shown/some features may be optional

****PLEASE READ AND UNDERSTAND BEFORE OPERATION****

Ver. 1.2.6

Thank You,

On behalf of the ABI family we would like to thank you for your recent purchase of your PTO Classic Spreader. Our Company's goal is to provide you, our customer; with innovative, quality tools as well as first rate customer service.

These instructions are designed to help you, the customer; get your new PTO Classic Spreader off the delivery pallet and into use. Once you have put your PTO Classic Spreader to work, if you have any questions, please feel free to call and talk with our friendly and knowledgeable Customer Service Department. To contact our Customer Service Department call 855-211-0598, M- Th 8am-8pm EST and Friday 8am-5pm EST.

To order parts for your PTO Classic Spreader please contact our Customer Support Department by phone at: 855-211-0598 M-TH 8am – 8pm and Friday 8am-5pm EST

Additional Contact Information –

Additional information on the PTO Classic Spreader can be found on the ABI Support site at:

www.abisupport.com

To contact ABI's Customer Service Department after hours go to the Help Desk on the ABI Support page at: www.abisupport.com and send our Customer Service Department an email regarding any issue you may be experiencing with the PTO Classic Spreader.

To the Operator –

The information presented in this manual will prepare you to operate the PTO Classic Spreader in a safe and knowledgeable manner. Operating the PTO Classic Spreader in a proper manner will provide a safer working environment and create a more efficient result. Read this manual fully and understand the entire manual prior to setup, operation, adjusting, performing maintenance, or storing the PTO Classic Spreader. This manual contains information that will allow you the operator to get years of dependable performance from the PTO Classic Spreader.

This manual will provide you with information on safely operating and maintaining the PTO CLASSIC SPREADER. Operating the PTO CLASSIC SPREADER outside of the stated safety and operations guidelines may result in injury to operator and equipment, or void the warranty.

The information provided in this manual was current at the time of printing. Variations may be present as Absolute Innovations, Inc. continues to improve and upgrade the PTO Classic Spreader for future use. Absolute Innovations, Inc. reserves the right to implement engineering and design changes to the PTO Classic Spreader as may be necessary without prior notification.

Operational Safety Rules-

Please exercise caution at all times when setting up, operating, or performing maintenance on the PTO Classic Spreader. Remember, any piece of equipment like the PTO Classic Spreader can cause injury/damage if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times with using the PTO Classic Spreader.

- Never permit any person to ride or board the PTO CLASSIC SPREADER at any time. **NEVER ALLOW RIDERS ON THE PTO CLASSIC SPREADER!**
- Use care and maintain minimum ground speed when operating the PTO CLASSIC SPREADER on a hillside, or when operating close to ditches, fences, or water sources.
- Never place any body part under the while the PTO CLASSIC SPREADER is in operation.
- Never allow anyone near the PTO CLASSIC SPREADER while in operation.
- Operate the PTO CLASSIC SPREADER in the daylight or under good artificial light. Operator should always be able to clearly see where they are going.
- Be alert for hidden hazards. Always operate the PTO CLASSIC SPREADER with caution over work environments that may have buried obstacles.
- Stay well and clear of all moving parts. Keep all limbs clear of attachments when making adjustments with all hydraulically operated attachments.
- Use caution when operating the PTO CLASSIC SPREADER in icy, wet, or snowy condition.
- Do not use the PTO CLASSIC SPREADER on highways or public thoroughfares. The PTO CLASSIC SPREADER is designed for off road use only.
- Always follow Tractor Manufacturer's rules for safe Operation of Tractor, and for proper procedures for attaching and disconnecting attachments. Contact your local dealership for an Owner's Manual for any questions related to the safe operation of the Tractor.

Use caution when operating the PTO CLASSIC SPREADER. Using the PTO CLASSIC SPREADER outside of stated safety and operations guidelines may result in injury to operator or others, property damage, or a void in warranty.

Information on your PTO Classic Spreader –

1/3 Heavier Than Most Competitor's Equivalent:

When it comes to equipment made of steel; weight is a good thing. The heavier the manure spreader is the more high density steel is being used. The more high density steel is being used the longer the manure spreader will last and the better it will perform. Weight is a quality metric you can feel. In this case it is significant. ABI Classic manure spreaders are 1/3 heavier for about the same price!

Shredded Output:

Shredding the material offers a number of advantages. It exposes more of the manure to sunlight which reduces parasite eggs/fly larva and allows the manure to decompose far more quickly than non-shredded material. It enables the manure to decompose quickly to encourage a healthy pasture and greatly reduces the amount of time between spreading and horses grazing again on the pasture.

Variable Flow Control:

Variable flow control enables the operator to apply just the right amount of material to the ground. This ensures proper application rates of material to maximize its nutritional value; minimizing waste and reduces nitrogen burn to vegetation. All ABI Classic manure spreaders feature the ability to control the flow rate of manure being applied to the ground. Both the PTO and ground drive manure spreaders have 4 different speed settings that are controlled by the pull rope. Flow control is accomplished by speeding up or slowing down the apron chain (or conveyor) that feeds manure to the back beaters. You now have a choice of emptying the spreader as fast as possible or applying controlled amounts of manure.

Eco Smart Results From A Classic Design:

The combination of the shredded output, controlled spread and variable flow control make the ABI Classic Manure Spreader one of the most eco-friendly spreaders on the market.

All Welded COR-TEN Steel Construction: **Exclusive Feature******

All ABI Classic manure spreaders are fully welded for long life and made of COR-TEN steel to resist rust and corrosion. Unlike standard mild steel that competitors use, COR-TEN steel is a "weathering" steel originally engineered as a corrosion resistant steel for the construction industry. This steel may be exposed to the elements, even unpainted, and not rust through for many years. (ABI manure spreaders are painted black for cosmetic purposes however.) Most competitors bolt together many components of their spreaders. Not here! ABI Classic manure spreaders are fully welded to take on the most punishing situations for many years. These manure spreaders are the toughest most durable spreaders we know of. In fact, ABI classic manure spreaders weigh about 1/3 more than most competitors! Now that is a quality difference you can feel!

PTO Drive Mechanism: (PTO Drive Units Only)

If your tractor has a 540 RPM PTO (Power Take Off) than the ABI Classic PTO models can provide an even higher level of performance. PTO models are ideal for extremely heavy loads, where extra power may be needed; or on terrain that is not conducive to good ground traction. (Such as extremely rough or hilly terrain, snow and ice or very soft or wet land) PTO manure spreaders also tread lightly on pastures as they do not use Ag traction tires under pressure. The operator may also control the speed of the beaters and apron chain to control material flow

ABI Classic PTO Spreader Setup Guide

rate all from the seat of the tractor. The apron web (conveyor) has 4 speed settings controlled by a pull rope. Not available on 25 cu ft unit.

4 Speed Variable Flow Control: ****Exclusive Feature****

All ABI Classic Manure spreaders feature the ability to control the flow rate of manure being applied to the ground. Both the PTO and ground drive units have 4 different speed settings that are controlled by the lever (ground drive units) or pull rope (PTO units). Flow control is accomplished by speeding up or slowing down the apron chain (or conveyor) that feeds manure to the back beaters. You now have a choice of emptying the manure spreader as fast as possible or applying controlled amounts of manure to specific areas to maximize the nutrient fertilizer value of the manure and minimize negative environmental issue such as run-off into water supply.

Shredder Beaters: ****Exclusive Feature****

Unlike most manure spreaders that use one beater bar to spread material, ABI Classic manure spreaders use 2 or 3 beaters depending on the unit size. 50 cu ft units ABI Classic manure spreaders have one shredder beater that shreds the manure and bedding (hay and straw) into smaller pieces before the manure is passed through to the wide spread paddles and thrown from the spreader. This additional shredding process breaks down the material for quick decomposition which promotes a healthy pasture. On 85 - 125 cu ft units ABI Classic manure spreaders have 2 shredder beaters. One small beater at the top of the spreader to shred the top of mounded material and a large shredder beater just in front of the wide spread beater. The shredder beaters are geared slower than the wide spread beater to maximize shredding power. 50 cu ft units feature 32 shredder blades, the 85 cu ft units feature 100 shredder blades, 110 & 125 cu ft units feature 120 shredder blades. The top shredder bar also helps to deflect flying material away from the operator and tow vehicle.

Wide Spread Beater:

The component that actually throws the manure from the manure spreader is the wide spreader beater. These beaters are expertly designed to further break down the manure and evenly distribute it on the ground. The 50 cu ft manure spreaders have 10 paddles, the 85 cu ft manure spreaders have 8 larger paddles and the 110, & 125 cu ft manure spreaders have 10 larger paddles.

All Welded COR-TEN Steel Box Design: ****Exclusive Feature****

The box on the ABI classic manure spreaders is very different from most competitors. The ABI box is not bolted together; it is fully welded and made of 12 gauge COR-TEN steel. This is thicker gauge steel than any other spreader, in this class, that we know of. ABI has chosen not to use galvanized steel as it is toxic to weld; therefore most competitors that use galvanized steel have resorted to bolt together construction. With the corrosion resistance of COR-TEN steel and the ability to have a fully welded box we feel our design is the best of both worlds. The box has flared sides to maximize capacity, lower the loading height and aid in keeping heaping loads of manure in the box when in transit. These flared sides also add further structural strength to the box.

Coal Tar Epoxy Box Liner and Tongue & Groove Poly Floor:

To further prevent corrosion and rust the inside of the box is sprayed with a Coal Tar Epoxy box liner. This box liner is not a traditional truck bed plastic insert liner that can cause corrosion under it and it is not a soft rubbery material that can rip. This box liner is ideally suited for the unique demands of a manure spreader. Coal Tar Epoxy offers great "flex" so it is perfectly suited to expand & contract with climate and can handle the abrasion and

ABI Classic PTO Spreader Setup Guide

acidity of manure flowing through the spreader. Coal Tar Epoxies are famous for protection from moisture and are commonly used on garage floors, underground pipelines/tanks even the hulls of barges. The floor of the ABI Classic Manure Spreader box is not steel and it is not wood. It is plastic! The floor is constructed of a tongue and groove poly lumber so it will never rot or rust. Even better yet the "tongue and groove" construction prohibits the individual poly boards that make up the floor from warping that would cause the apron web to get caught and bind on the flooring. This is premium maintenance free flooring that will last and comes with a limited lifetime warranty.

"5 Point" Corrosion & Rust Resistance:

Corrosion and rust resistance is one of the top concerns customers have in buying manure spreaders. ABI does not take this concern lightly. To ensure our Classic Manure Spreaders will last for many years to come we have implemented a suite of measures to prevent corrosion and rust.

1. We start with corrosion resistant COR-TEN steel.
2. All steel components are sand blasted before painting. This cleans the impurities off the steel and opens the pores to absorb the paint for the best bond.
3. Rust-Oleum "Stops-Rust" paint is applied. This paint is easy to repair and touch up and unlike powder coating moisture cannot get behind the paint to rust from the underside.
4. Coal Tar Epoxy box liner is applied inside the box.
5. Tongue and groove poly (plastic lumber) floor will not rust, corrode or rot. This floor has a Limited Lifetime Warranty.

ABI Classic PTO Spreader Setup Guide

Specifications:

Model	50P	85P	110P	125P
# of Horses	Up To 10	Up To 20	Up To 25	Up To 30
Capacity Heaped	50 cu. ft.	85 cu. ft.	110 cu. ft.	130 cu. ft.
Capacity Struck	30 cu. ft.	47 cu. ft.	76 cu. ft.	84 cu. ft.
Total Length	132"	200"	216"	234"
Total Width	54"	72"	80"	86"
Total Height	43"	59"	66"	66"
Box Length	76"	100"	114"	125"
Box Width	35"	40"	48"	48"
Box Height	19"	20"	24"	24"
Box Flared Width	40"	45"	53"	53"
Loading Height	34"	43"	47"	50"
Frame & Hitch Construction	All Welded Corrosion Resistant High Strength COR-TEN Steel!			
Box Sides Construction	All Welded 12 Gauge Corrosion Resistant High Strength COR-TEN Steel!			
Box Floor	Corrosion Proof Poly Tongue & Groove Lumber!			
Outside Body Finish	Rust-Oleum Rust-Stop Paint Applied To Sandblasted COR-TEN Corrosion Resistant Steel!			
Inside Box Sides Finish	Rust-Oleum Rust-Stop Paint + Hard Shell Epoxy Box Liner (Spray-On) Applied To Sandblasted COR-TEN Corrosion Resistant Steel!			
Tires	Road Tires For Easy Pulling			
Drive Mechanism	PTO 540 RPM - Gear Box			
Roller Chain	CA550			
Apron Chain	High Strength T-Rod Web			
Spread Speed	Variable Apron Web Speed - 4 Speed Settings			
Total # of Beaters	Two	Three		
Wide Spread Beater	Single Wide Spread Beater With 10 Aggressive Paddles	Single Wide Spread Beater With 8 Large Aggressive Paddles	Single Wide Spread Beater With 10 Large Aggressive Paddles	
Shredder Beater	Single Shredder Beater With 4 Bars & 32 Blades	Dual Shredder Beaters With 10 Bars & 100 Blades		Dual Shredder Beater With 10 Bars & 120 Blades
Shedder Hood & Spray Shield	Included	N/A		
Hitch Stand	2,000 lbs. Swing Away Jack Stand With Skid Plate			
Unit Weight	920 lbs. ----- 1220 lbs. w/crate	1670 lbs.	2,130 lbs.	2,250 lbs.
Empty Tongue Weight	70 lbs.	160 lbs.	230 lbs.	250 lbs.
Tractor Requirements	22+ hp Compact	25+ hp Standard	30+ hp Standard	35+ hp Standard
Warranty	Two (2) Year Limited Warranty Limited Lifetime Warranty on Poly Floor			

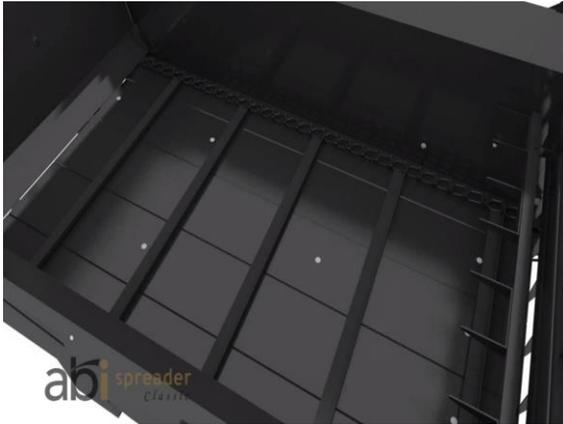
Usage:

Swing away Jack:



The swing away jack is used to hold the spreader in a safe level position when not connected to a tow vehicle. Use the jack to raise or lower the spreader for easy connection to the tow vehicle. To rotate the jack remove the attached pin from the holder, rotate, and reinsert pin. To keep the jack from catching during use, always raise and rotate the jack before operating the Spreader.

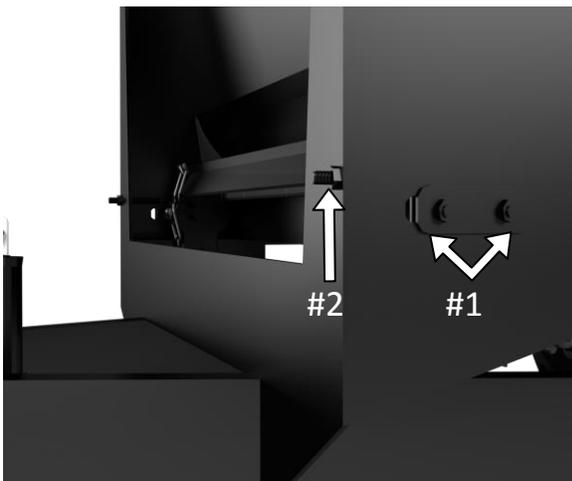
Spreader Bed:



Make sure to rinse out the bed of the spreader after every use. It is important to avoid putting soil and stones into the spreader. The ABI Classic spreader was not designed to spread soil or stone. Using the ABI Classic spreader to spread soil or rocks will cause damage to unit, and will not be covered under Warranty. Please do not store ABI Classic Spreader in direct sunlight as it may cause damage to the Tongue and Groove Poly Flooring.

****Use caution when spreading wet manure. You will want to use a slow speed to prevent bridging or build up, and to allow the manure to properly spread. ****

Apron Chain Adjustment:



Over time you will need to adjust the tension on the apron chain. To adjust the apron chain you will need to loosen the two bolts labeled #1. Then turn the nut labeled #2 to adjust the tension on the apron chain. For proper set up you want to have no more than 3" of lift in the middle of the bed on the apron chain. Once you have adjusted the apron chain remember to retighten Bolt set #1 before using the spreader again.

**** You will need to make the adjustment to both sides, so make sure to keep track of how many times you turn the adjustment nut. To keep the apron chain level you must adjust both sides the same. ****

ABI Classic PTO Spreader Setup Guide

PTO Shaft:



Make sure the PTO is fully locked in place before engaging the PTO drive. To prevent damage to the PTO, disengage the PTO before making any sharp turns. When engaging the PTO to operate the apron chain and Beater Bars you will want to follow the following procedure. Throttle down the Engine, and engage the PTO system. Engage the apron chain, and once running increase the throttle on the PTO to run the Beater Bars at full speed. When done spreading, disengage the apron chain (covered under speed adjustable rope section below) and disengage the PTO when bed is empty or returning to refill the Spreader. Repeat the process every time you use the spreader to prevent damage to the PTO shaft. Do not engage the PTO while the optional End Gate is down.

Speed Adjustable Rope:

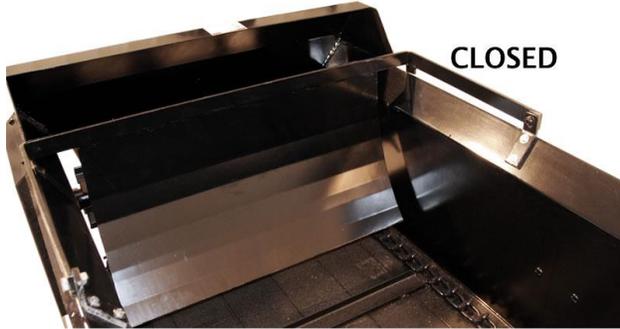


The speed adjustable rope controls the speed of the apron chain. Pull the rope forward slowly to allow the lever to lock into each slot as you pull forward. This allows for multiple spreading speeds. When you want to stop the apron chain pull the rope fully forward and allow the lever to fully reset. This will disengage the apron chain.

*** Make sure to disengage the apron chain after every use and before starting the PTO shaft to prevent damaging the spreader. ***

Optional Feature:

End Gate:



The optional end gate is used to prevent manure from spilling out during filling or transportation, and to help further deflect material from the operator during spreading. For ABI Classic Spreader models 25 – 50 the end gate must be operated manually. For larger models 85 – 130 there is an optional hydraulic lift arm for added convenience. Having this down during use will cause damage to the ABI Classic Spreader. Make sure to fully open the End Gate before use, or engaging the Apron Chain at any time.

Exclusive Feature:

Shredder Hood and Spray Shield:



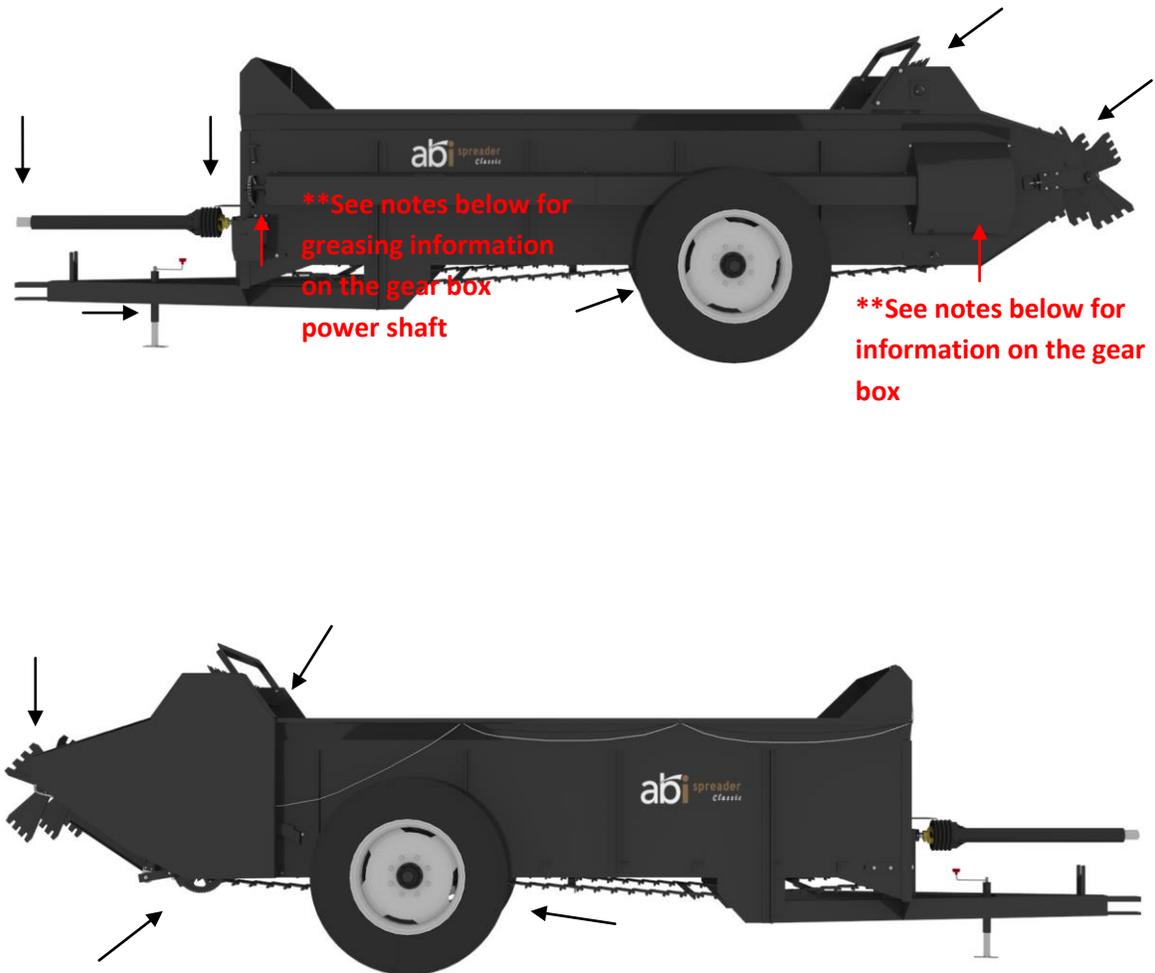
This exclusive feature offers two features. First is to prevent any manure from flowing over the beaters and shredder bars, and second it acts as a shield for spray off. This helps with “clean” spreading, and prevents spray off from hitting the operator.

****Only available on the 25 and 50 cu ft spreader models****

ABI Classic PTO Spreader Setup Guide

Maintenance:

Grease Points:



- The spreader should be greased using a manual grease gun every 20 loads and before any periods of storage. You will need to remove and replace chain covers when greasing and oiling the spreader. Some areas may have multiple grease zerts; please check to make sure you grease all areas. Use caution when greasing, and do not over grease fittings as it may damage the bearings.
- Grease the PTO knuckles using a manual grease gun every 6 months. The PTO knuckles should only need 1 pump of grease per grease zert. Over greasing the PTO knuckles could cause damage to the PTO shaft, please use caution when greasing and do not over grease the PTO knuckles.

ABI Classic PTO Spreader Setup Guide

- Clean chains after every use and oil chains after every 25-30 loads, or before and periods of storage. Oiling the chains before periods of storage will help prevent rusting of the chains. For oiling the chains you can use SAE 30 or higher rated oil for all the chains. It is not recommended to pour oil directly into the bed when oiling the apron chain. To oil the apron chain you may want to use a paint brush with oil on it to apply oil to the apron chain.
- **Greasing the PTO Drive Shaft** – The PTO drive shaft (highlighted above) comes with pre-packed sealed roller bearings and should only be greased as needed. You will only need to put in 1 pump of grease into each grease zert only as needed. Over greasing the PTO drive shaft bearings may cause damage to the bearings, use caution when greasing PTO drive shaft bearings.
- When greasing the hubs for the ABI Classic PTO Spreader they will need to be hand packed at least once a year, for low volume use; or twice a year for high volume use.

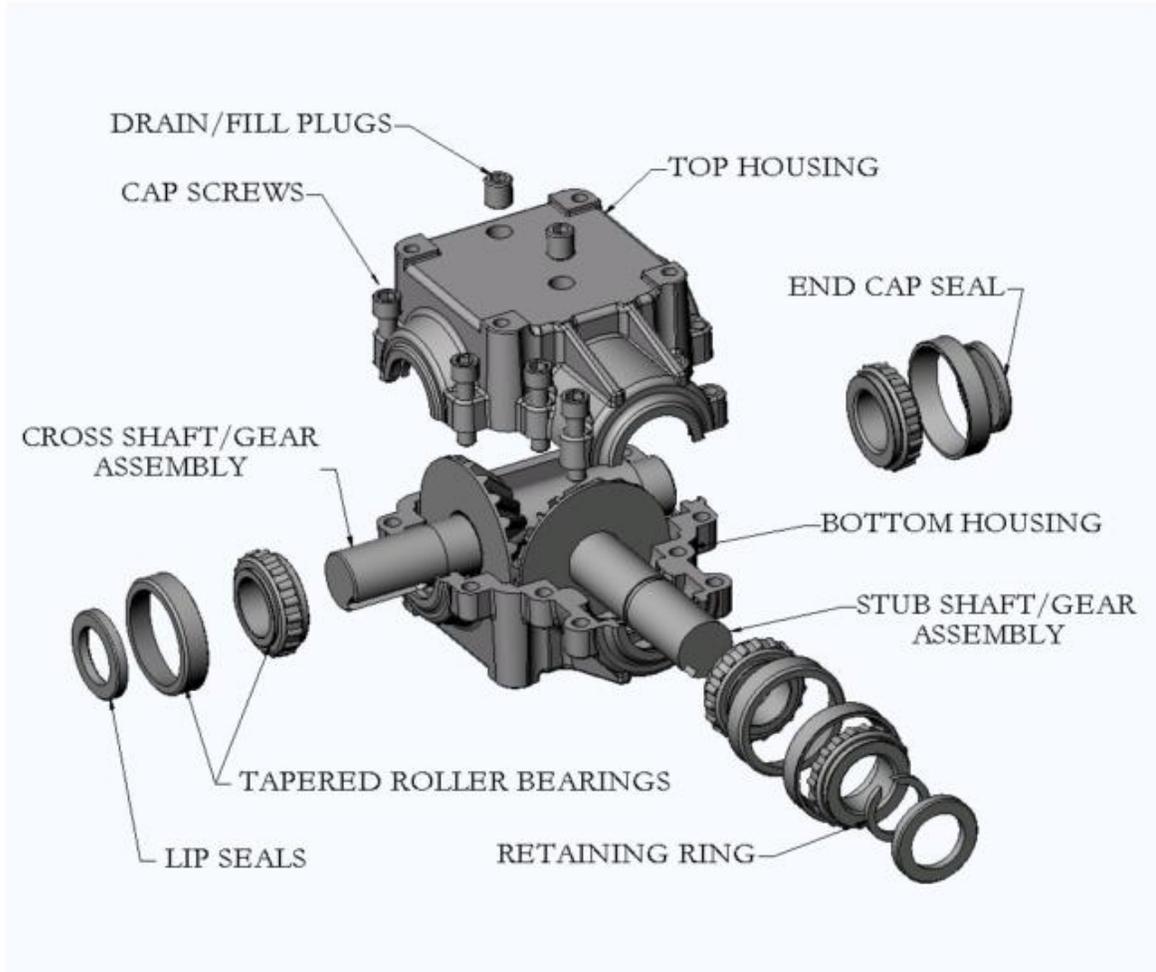
Gear Box Maintenance –

- All ABI Model Classic Spreaders come with Mobilube HD 80W-90 oil in the gear box. When replacing the oil in the gear box put in Mobilube HD 80W-90 (or equivalent) oil only. Do not combine synthetic with non-synthetic oils inside the gear box.
- Routinely inspect mounting bolts, couplers, and other hardware to ensure that all hardware is secure, and to ensure the gear box is firmly anchored.
- Inspect daily for oil leaks and unusual noises. If leaks or unusual sounds are found, discontinue use of the Classic Spreader and contact ABI Customer Service.
- Check oil levels after every 24 hours of operation. See below for information on adding or changing oil.
- Change oil in the gear box after the first 50 hours of use. Normal changes after initial oil change should occur between 250 and 1000 hours of operation. Oil changes may need to more frequent for high volume use or when used in severe environments. Always replace oil in gear box with Mobilube HD 80W-90 oil or equivalent only.

Adding or Changing Oil –

Locate the fill plug with breather on the top of the gear box. Using the appropriate tools, remove the fill plug from the gear box to add oil. Check to make sure the oil level inside the gear box does not exceed more than half full. If the oil in gear box is overfull, it may cause damage to the gear box.

ABI Classic Spreader Gear Box Break Down:



ABI Classic PTO Spreader Setup Guide

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For videos on the ABI PTO Classic Spreader check out our support page/Sales page at www.abiattachments.com. There you will find videos on basic walkthroughs, setups, and use for each tool on our support page.

