



OPERATOR'S AND MAINTENANCE MANUAL Rotary Mower Series

**100 SERIES – 148
160
166
172**

**1000 SERIES – 1060
1060L
1060R
1060W
1066
1072
1072L
1072R
1072W
1084
1084W**

**1100 SERIES – 1160
1172
1172W
1184W**



DANGER

Read this manual and the manual for your tractor carefully to acquaint yourself with both machines before operating!

MODEL NUMBER _____
SERIAL NUMBER _____
DATE OF PURCHASE _____

TO OUR CUSTOMERS

Take the time NOW to read this entire manual before using the mower.

We, at HARDEE by EVH manufacturing, thank you for purchasing your new Hardee Rotary Mower.

We have tried hard to build a mower to do the work you have in mind. Many hours of engineering, field-testing and improvements have gone into the design and workmanship. We will continue this, always keeping in mind the customer's needs.

The best performance of your mower will depend on factors like proper lubrication, maintenance, hookup, adjustments and operation to give you long and dependable service. However, as with any type of equipment, your mower is designed to perform with specific functions. It is best used on tractors between 35 and 120 H.P. (See "SPECIFICATIONS")

In this manual, you will find instructions on all features, including maintenance and operation. Should replacement parts or service be needed, your Hardee Dealer will be able to provide prompt and efficient service. PLEASE SPECIFY MODEL AND SERIAL NUMBER WHEN ORDERING PARTS.

Customer Pre-Operation Check List		Reference
<input type="checkbox"/>	Read, understand and follow the general safety rules listed in this manual.	Page 3
<input type="checkbox"/>	Check all shields and guards.	Page 3
<input type="checkbox"/>	Check all grease fittings.	Page 9
<input type="checkbox"/>	Check the fluid level in the cutter gearbox.	Page 11

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SPECIFICATIONS

SPECIFICATIONS					
	48" Mowers	60" Mowers	66" Mowers	72" Mowers	84" Mowers
DIMENSIONS					
Width (in)	52"	64"	70"	76"	89"
Length (in)	81"	100"	106"	112"	122"
CUTTING					
Width (in)	48"	60"	66"	72"	84"
Height (in)	2"-12"	2"-12"	2"-12"	2"-12"	2"-12"
REPLACEABLE SKIDS (in)					
100 Series	NONE	NONE	3/8" x 2"	NONE	-
1000 Series	-	3/8" x 2"	3/8" x 2"	3/8" x 2"	3/8" x 3"
1100 Series	-	3/8" x 2"	-	3/8" x 2"	3/8" x 3"
BLADES					
100 Series	3/8" x 3"	3/8" x 3"	3/8" x 3"	3/8" x 4"	-
1000 Series	-	1/2" x 3"	1/2" x 3 1/2"	1/2" x 3 1/2"	1/2" x 3 1/2"
1100 Series	-	1/2" x 3"	-	1/2" x 3 1/2"	1/2" x 3 1/2"
TRACTOR HP					
100 Series	35-45	35-45	35-45	35-45	-
1000 Series	-	35-85	35-85	35-85	35-85
1100 Series	-	40-120	-	40-120	65-120
PTO RPM	540	540	540	540	540
GEARBOX HP					
100 Series	40	40	40	40	-
1000 Series	-	90	90	90	90
1100 Series	-	125	-	125	125
BLADE TIP SPEED					
100 Series (ft/min)	9975	12468	13716	14962	-
1000 Series (ft/min)	-	12384	13623	14860	17337
1100 Series (ft/min)	-	12384	-	14860	11875
DECK THICKNESS					
100 Series	10 GA	10 GA	10GA	10 GA	-
1000 Series	-	7 GA	7 GA	7 GA	10 GA
1100 Series	-	7 GA	-	7 GA	7 GA
WEIGHT					
100 Series (lbs.)	420	520	600	650	-
1000 Series (lbs.)	-	810	870	900-1035	1110-1230
1100 Series (lbs.)	-	890	-	1094	1400
HITCH PIN					
100 Series	Cat.1	Cat.1	Cat.1	Cat.1	-
1000 Series	-	Cat.1	Cat.1	Cat.1	Cat.2
1100 Series	-	Cat.1 and 2	-	Cat.1 and 2	Cat.1 and 2

INTRODUCTION

Owner's Responsibility

The manufacturer has no control over the ultimate use of the mower and therefore assumes no responsibility or liability for damage or injury resulting from the use of this machine.

The upkeep of the rotary mower is the responsibility of the user. This upkeep includes all shielding, guards, and safety decals (OSHA Regulation 1928.57). You can obtain replacement parts from any authorized Hardee dealer.

Read this Operator's Manual before operating the mower. Failure to do so could result in serious injury or death to the operator or to others. Remember that most accidents occur due to neglect or carelessness. The operator is responsible for inspecting and making repairs as may be necessary. Cleaning after each use and storage under a shelter will extend the life of the mower.

Purpose of This Manual

This manual provides information on safety, operation, adjustments, troubleshooting and maintenance of your new mower. Please read and follow all the recommendations to help ensure that you get many years of service from your new Hardee mower.

If you need additional copies of this manual, please contact your local Hardee dealer or download a copy from our website at www.hardeebyevh.com.

Safety-Alert Symbol



This symbol is the safety alert symbol. It appears throughout this manual to call your attention to instructions involving your personal safety and the safety of others. Failure to follow these instructions can result in injury or death.

Signal Words

Safety signal words are words that call attention to the safety sign and designate a degree or level of hazard seriousness. The signal words used throughout this manual are DANGER, WARNING and CAUTION. Please read and follow all safety messages that have these signal words shown for your protection.

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Customer Assistance

The Hardee By EVH sales team would like you to be satisfied with your new ROTARY MOWER. If for some reason you have any questions about the information in this manual or have a problem with your mower, please discuss the problem or question with the management of your local dealership. If further assistance is required, please contact:

HARDEE by EVH Manufacturing Company, LLC

Sales Department

4895 Red Bluff Road

Loris, SC 29569

843-756-2555

sales@hardeebyevh.com

SAFETY INFORMATION

General Safety Rules

This section of your manual will address the safe operation of your new mower. We, at Hardee, strive to produce a machine that is both a quality product and safe to operate. Please take the time to read, understand and follow the safety rules listed below and throughout this manual.

Your safety also depends on you becoming familiar with the basic operation of your new mower. You can find complete instructions for this mower in the Operation Instruction section of this manual. We believe that using your mower safely, in a safe environment will give you great results!

DANGER

If your tractor has an open cab, then it **MUST** be equipped with operator protective equipment in the form of shielding from thrown objects to operate this equipment safely.

DANGER

Rotary mowers have the inherent ability to throw debris considerable distances when the blades are allowed to strike foreign objects. The operator must use caution or serious injury may result. Be sure by-standers are at a safe distance at all times when the mower is in use.

WARNING

ALWAYS keep your tractor level. Be careful to keep ample distance between the rear tire and the top of the ditch bank to avoid a cave-in of the bank.

WARNING

Failure to keep the tractor level may result in loss of traction, tipping, rollover, property damage, personal injury or death.

WARNING

- NEVER allow an UNQUALIFIED OR UNDERAGE person to operate the mower.
- NEVER allow any person under the influence of drugs or alcohol, or who is otherwise impaired, to operate the mower.

DANGER

DO NOT look under the mower deck or attempt to remove objects or branches from under the mower

deck while the tractor is running. Serious injury, loss of limb or death may result.

DANGER

DO NOT reach under the mower deck at any time. Cutting blades may cause serious injury, loss of limb or disfigurement.

WARNING

All shielding, guards and safety decals must be in place at all times while the mower is in operation. Consult OSHA Regulation 1928.57 for further details.

WARNING

- NEVER operate the mower in an area where objects can be thrown by the mower. Clear areas to be cut of all foreign objects before cutting.
- NEVER allow passengers to ride on the mower or the tractor while the mower or any other implement is operating.
- NEVER dismount the tractor from the rear.
- NEVER allow HORSEPLAY in the vicinity of the tractor while the mower is operating.

WARNING

NEVER allow the mower to impact rock piles, piles of gravel, steel guardrails or concrete abutments. Contact with these objects could cause blade failure. Serious machine damage, property damage or bodily injury may occur. Check the area for these items BEFORE mowing.

DANGER

NEVER attempt to use the mower to remove brush larger than 2 inches in diameter.

DANGER

- ALWAYS disengage the PTO, set parking brake, turn off the tractor engine, remove key and wait for all rotary motion to stop BEFORE dismounting the tractor.
- ALWAYS dismount the tractor FROM THE SIDE.
- ALWAYS keep blade holder and bolts tight.
- ALWAYS wear safety goggles when operating the mower.

SAFETY INFORMATION

Safety Decals

Your Hardee mower ships with all safety decals in place. They are located in areas on the mower that are potentially hazardous. Please locate, read and follow the information you find on these decals.

By law, you must replace any safety decals that are damaged or missing. You can order replacement decals from any local Hardee dealer. Ask for part number listed next to decal.

To apply the replacement decals:

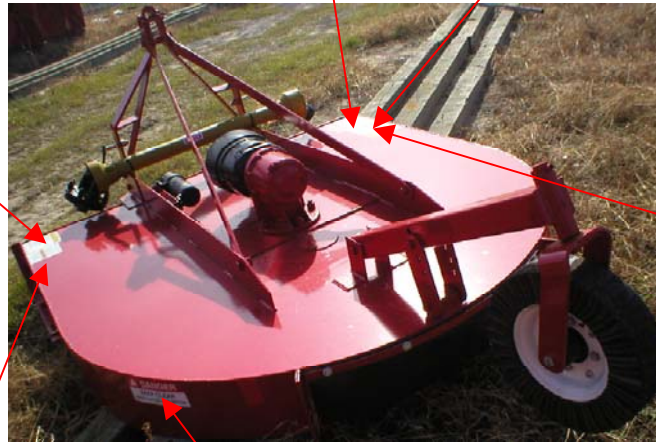
- Clean the surface to place the new decal.
- Peel the decal away from the paper backing.
- Press firmly onto the clean surface.
- Squeeze out any air pockets using a straight edge.

P/N 11011



P/N 11003

P/N 11004



P/N 11005

P/N 11006



P/N 11002

PREPARATION FOR USE

CHECK



Danger

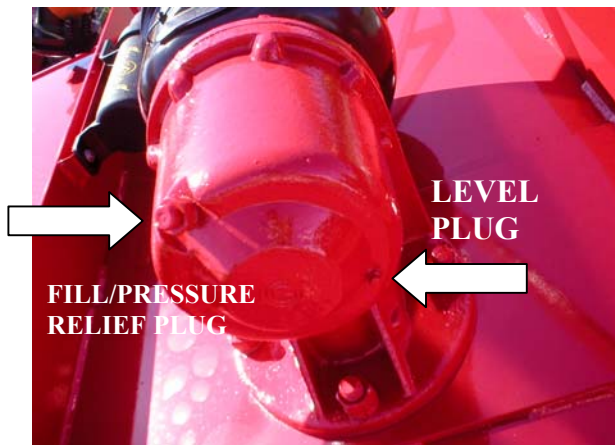
NEVER attempt any checks, repairs or adjustments with the tractor engine running or the power take-off engaged. Adjustment of rotating parts while the tractor engine is running can result in serious personal injury or death if the PTO accidentally engages.

Gearbox Lube Level

The gearbox is filled with lubricant at the factory. If a shaft seal or cover gasket is damaged, the lubricant will leak. After periods of heavy use (at least every 10 hours of operation), or if lubricant leaks are observed, check the lubricant level.

- Position mower on a level surface.
- Visual check and look for leaks in shaft and open plate cover and check for oil in blade pan.
- Remove gearbox lubricant level inspection plug and check lubricant level. Lubricant should be at or near the hole.
- If lubricant is low, remove gearbox Fill/Pressure Relief Plug (P/N 15664) and add SAE 85-140 lubricant until lubricant starts to flow from level inspection hole. DO NOT OVERFILL. Overfilling will induce leakage and cause damage to seals and gaskets.
- Replace Lubricant Level Plug and Fill/Pressure Relief Plug (P/N 15664).

Note: DO NOT OPERATE THE MOWER WHEN LUBRICANT LEVEL IS LOW. Replace damaged seals or gasket and add lubricant to the correct level. DO NOT OVERFILL.



Checking Gearbox Lubricant Level

Blade and Blade Holder Condition

- Lift and support mower by an approved means.



Danger

The mowers weigh BETWEEN 420 and 1400 pounds and will cause severe injury or death if one falls on the operator during maintenance. Support the mower with a supporting device having a capacity for at least 1 ½ times the weight of the mower (e.g. – 1400 pound mower = 2100 pound lifting device capacity).

- Check mower blades for sharpness and condition. Replace worn mower blades in pairs only. Sharpen dull mower blades in pairs only.

Note: It is a good practice to weigh blades after sharpening to ensure balance.



Warning

Excessively worn or dull mower blades, or the replacement or sharpening of only one mower blade, can cause excessive mower vibration, resulting in damage to the gearbox and structural damage to the mower. Excessive vibration can cause rotating parts to break and fly off the mower, causing serious injury or death to the operator or bystanders.

- Lock blade holder so it will not turn.
- Remove blade holder shaft cotter pin.
- Check blade holder nut for tightness. Tighten as required.



Warning

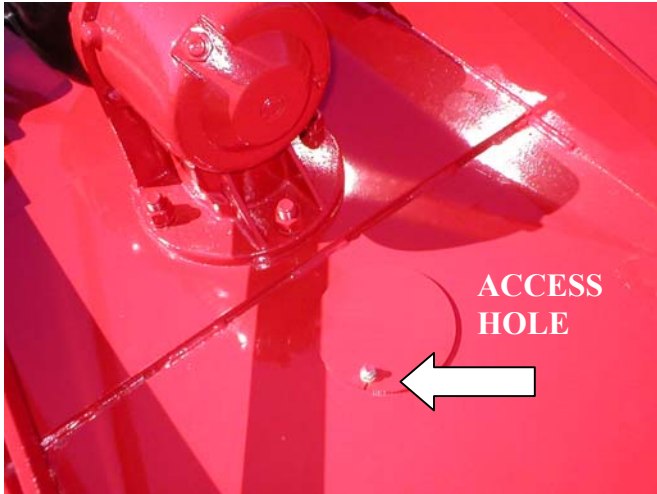
A loose blade holder shaft can cause the shaft to break, causing the holder to fly out, damaging the mower and causing serious personal injury or death to the operator or bystanders. Ensure that the nut is tight on the shaft and the cotter pin is securely in place.

- Replace blade holder shaft cotter pin.
- Remove supporting means and lower mower.

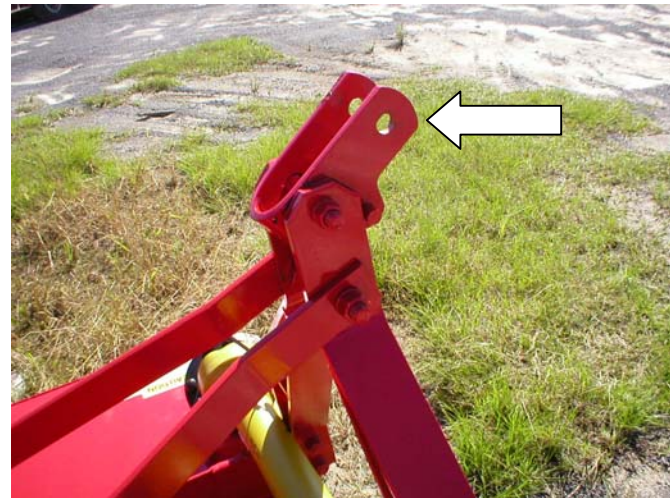
Blade Attaching Hardware

- Rotate blade bolt access cover (on top of mower deck in front of the gearbox) from covering over the access hole.
- Turn blade holder to position blade bolt under access hole.
- Tighten blade bolt.
- Turn blade holder to position second blade bolt under the access hole.
- Rotate blade bolt access cover over access hole.

PREPARATION FOR USE



Checking Blade Bolts



Positioning Hitch Upper Arm

Skid Condition

- Check skids for wear and tightness.
- Replace skids less than 1/16 inch thick.

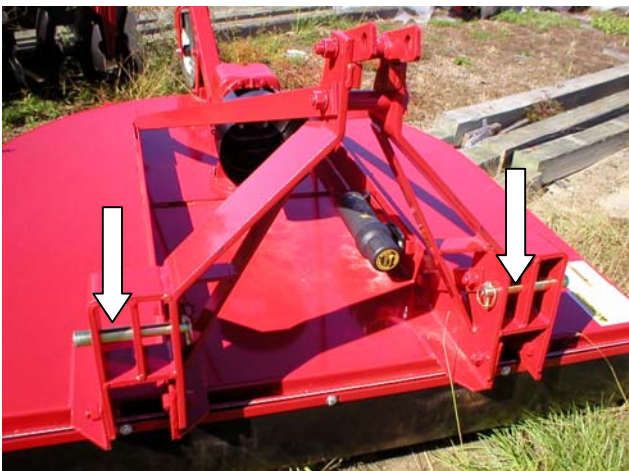
Decal Condition

Check all decals for position and legibility before attaching the mower to the tractor. Replace all decals that have been removed, damaged or destroyed. See the Safety Section for decal locations.

ATTACHMENT

Three-Point Hitch

- Position tractor in front of mower so that the tractor hitch is in line with mower hitch.
- Connect tractor lower hitch arms to mower hitch points and lock pins in place.



Positioning Tractor for Hitching

- Connect tractor top hitch link to floating linkage on mower hitch. Adjust linkage to a 45° angle.

Driveshaft

Warning

NEVER attach the mower to a 1000-RPM PTO. The mower is rated for 540-RPM only. Operating the mower at over 540-RPM could result in severe damage to the mower, and in parts flying off the mower resulting in severe personal injury or death to the operator or bystanders.

- Lift tractor PTO guard.
- Pull U-joint guard back along driveshaft.

ADJUSTMENT

Slip Clutch

Mowers are equipped with a slip clutch on the driveshaft to protect the tractor and mower drivetrain parts from sudden overloads. When properly adjusted, the clutch will slip to relieve excess loads and automatically reset itself without interrupting the mower operation.

To compensate for clutch plate face wear and to maintain capacity during continuous use, the slip clutch must be adjusted periodically. Adjust the slip clutch at the beginning of each use, and when the mower has been idle for extended periods.

Warning

NEVER attempt any repairs or adjustments with the tractor engine running or the power take-off engaged. Adjustment of rotating parts while tractor engine is running can result in serious personal injury or death if the PTO accidentally engages.

PREPARATION FOR USE

- Remove slip clutch safety shield by removing the retaining clip and sliding shield back along the driveshaft.
- Loosen slip clutch adjusting nuts.
- Check clutch plate assembly. Free plates by lightly tapping on flat edges of drive plates if required.



Adjusting Slip Clutch

Note: Slip clutches have a tendency to seize if left idle for extended periods

- Replace slip clutch safety shield

Warning

Ensure that all bystanders are clear of the mower before the tractor engine is started. Objects thrown by the mower can cause severe personal injury or death.

- Start tractor engine and engage power take-off at low rpm for one or two seconds to remove any rust or other foreign material between the slip clutch plates.
- Disengage PTO and turn off tractor engine. Ensure that all rotary motion has stopped, set brake and remove the key before dismounting the tractor.
- Remove clutch safety shield.
- Tighten clutch adjusting nut 1/2 turn at a time.
- Scribe a chalk line across clutch drive plate and driven plate to mark their position relative to one another.

Note: The drive plate is on the U-joint side of the slip clutch. The driven plate is on the gearbox side.

- Replace clutch safety shield.
- Operate rotary mower for three or four minutes under normal load.
- Disengage PTO, turn off tractor, set brake and remove key. Ensure that all rotary motion has stopped before dismounting tractor.

- Remove safety shield.
- Observe chalk lines on clutch plates. If clutch is not slipping under normal load, chalk marks will still be aligned. Clutch is correctly adjusted. If clutch is slipping, chalk lines will not be aligned.

Note: If chalk is not available, the following method may be used to check for clutch slippage.

- Carefully check if clutch is overheating by holding hand near clutch. If slipping has occurred, allow clutch to cool before adjusting.

Warning

DO NOT touch the slip clutch with bare hands immediately after operation. Severe skin burns and component damage may result if the clutch is adjusted while hot.

- Tighten Slip Clutch adjusting nuts 1/6 to 1/3 turn and repeat above procedure until heating and slippage are eliminated.
- Replace clutch safety shield.

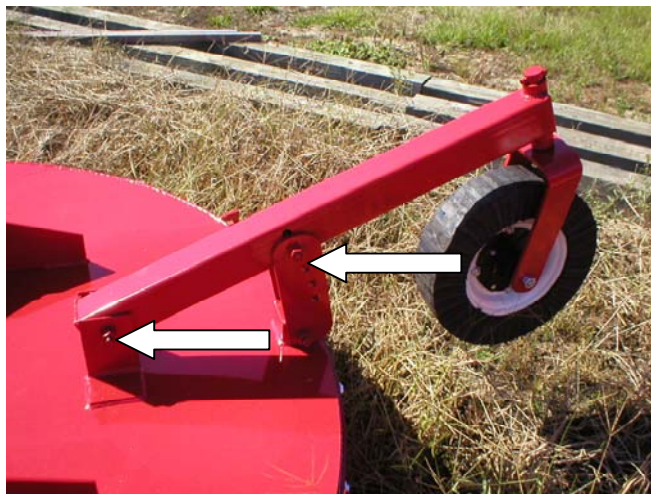
Cutting Height

Warning

The mower must be operated on a level plane at all times to minimize the risk of objects being thrown out from under the mower. Objects thrown by the mower can cause severe personal injury or death.

Safety chain shielding is highly recommended to minimize the danger of objects being thrown out from under the mower. Safety chain shielding is available from Hardee Mfg. and authorized Hardee dealers and distributors. Safety belting comes standard on all mowers.

Use the tractor hitch leveling arms to adjust the cutting height of the front of the mower. Adjust the tail wheel arm positioner to level the mower.



Adjusting Tailwheel Arm for Cutting Height

OPERATING INSTRUCTIONS

CAUTIONS

Danger

Incorrect operation of the mower may produce hazardous situations that can lead to serious injury or death. The mower has been designed to minimize the risks of accidents, but there is no substitute for a careful operator.

Note: See SAFETY PRECAUTIONS in the introduction section for a list of safety related cautions to be observed while operating mower.

Lights, SMV Emblems

If operating along public roads, warning lights or slow moving vehicle emblems should be used unless prohibited by law. Check local and state codes.

Low Speed

Slow the tractor down when approaching trees, fences, ditches or other obstacles. The flywheel effect of the blade rotation will move some tractors forward after the main drive clutch has been disengaged. To stop forward movement, apply tractor brakes and throttle the engine back to allow the engine to slow the rotor before disengaging the PTO or drive clutch.

NORMAL PROCEDURES

Travelling

Raise the mower to its maximum height when travelling. Additional ground clearance can be obtained by shortening the tractor hitch center arm. NEVER engage PTO while mower is in travelling position WITHOUT a cutting load.



Mower in Travelling Position

Warning

Transporting the mower at maximum height changes the center of gravity of the tractor. Do not travel at high rates of speed with the mower in travelling position, especially over rough or bumpy terrain. Tractor instability during high-speed travel can cause a rollover, resulting in serious personal injury or death.



Mower in Operating Position

Mowing

- Watch for holes, rocks, roots or other hidden hazards.
- Keep away from drop-offs.
- Do not cut near the edge of a gully or bank.
- Slow down before turning.
- Engage PTO as directed by tractor manufacturer.

Reverse Operation

Do not operate the mower in reverse unless absolutely essential.

Caution

DO NOT operate mower in reverse unless absolutely essential and is allowed by the tractor manufacturer. Reverse PTO operation may damage tractor drivetrain. Material maybe thrown out through the front of the mower during reverse operation, posing a hazard to the operator and bystanders. Cut in reverse only if optional safety chain shielding is installed on the mower.

- Look behind mower before putting tractor in reverse gear.
- Back tractor at lowest speed available
- Watch back of mower at all times while backing.

LUBRICATION

Slopes

Cut down, not across, steep slopes. Avoid sudden starts and stops. Avoid mowing up steep slopes. Slow down before changing direction on steep slopes.

Sharp Turns

When turning with the mower, ensure that the rear tractor wheels do not strike any part of the mower. Extremely short turns should be avoided to prevent excessive U-joint wear.

HEIGHT ADJUSTMENT

Warning

The mower must be operated on a level plane at all times to minimize the risk of objects being thrown out from under the mower. Objects thrown by the mower can cause severe personal injury or death.

LUBRICATION

Visually inspect the mower at least once a week. Lubricate parts with good lithium EP grease at the intervals specified. If heavy, long-duration operation is expected, lubricate more frequently. Wipe off excess grease after lubricating.

Interval	Grease Location
4 hours	U-Joints
10 hours	Driveshaft Slip Joint Tail Wheel Bearings Tail Wheel Pivot



Lubricating Tail Wheel Bearings



Lubricating Driveshaft Slip Joints



Lubricating Universal Joints



Lubricating Tail Wheel Pivot.

MAINTENANCE

MAINTENANCE

Danger

NEVER attempt any checks, repairs or adjustments with the tractor engine running or the power take-off engaged. Adjustment of rotating parts while tractor engine is running can result in serious personal injury or death if the PTO accidentally engages.

BLADES

Check Blade Condition

Danger

Excessively worn or dull mower blades, or replacement or sharpening of only one mower blade can cause excessive mower vibration, damage to the gearbox and structural damage to the mower. Excessive vibration can cause rotating parts to break and fly off the mower, resulting in serious injury or death to the operator or bystanders.

- Lift and support mower by approved means.

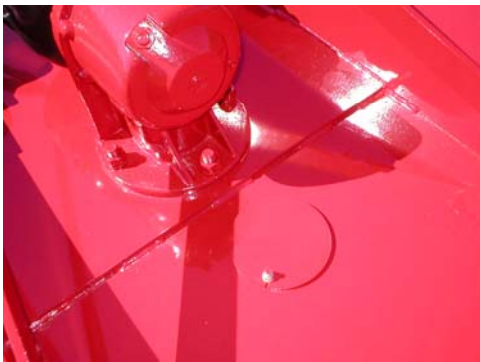
Danger

Lift and support mower by approved means only. The mowers weigh BETWEEN 420 and 1400 pounds and will cause severe injury or death if it falls on the operator during maintenance. Support the mower with a supporting device having a capacity for at least 1 ½ times the weight of the mower (e.g. – 1400 pound mower = 2100 pound lifting device capacity).

- Check mower blades for sharpness and condition. Replace worn mower blades in pairs only.

Remove Blades

- Disconnect driveshaft from gearbox.
- Rotate blade bolt access cover (on top of the mower deck in front of the gearbox) from over the access hole.
- Turn blade holder to position blade bolt under access hole.
- Remove blade bolt and blade.



Removing Blade Bolt

Remove Blade Holder

- Lock gearbox shaft by an approved means.
- Remove cotter pin from shaft.
- Back off set bolt.



Removing Blade Holder Nut

Danger

The blade holder is heavy and will cause serious personal injury or death if it falls on the operator. Support the holder by an approved means before proceeding to the next step.

- Remove set bolt and nut.
- Remove slotted nut, washer and blade holder.

Remove Blade Holder

- Lift blade holder onto gearbox shaft.
- Install set bolt and nut.
- Install washer and slotted nut. Tighten the nut.
- Install cotter pin on gearbox shaft.

Danger

A loose blade holder could cause the gearbox shaft to break under load, causing the holder to fly out from under the mower. This could cause damage to the mower and serious personal injury or death to the operator or bystanders. Ensure that the slotted nut is tight against the holder and that the cotter pin is in good condition.

Replace Blades

- Rotate blade bolt access cover away from access hole in mower deck.
- Position holder so that a blade-mounting hole is directly beneath access hole.
- Position blade on holder.
- Install and tighten blade bolt.

MAINTENANCE

- Turn blade holder to position second blade-mounting hole under access hole.
- Install and tighten blade bolt.
- Rotate blade bolt access cover over access hole.
- Install driveshaft.
- Remove supporting means and lower mower.

Gearbox Lube Level

After periods of heavy use (at least every 10 hours of operation), or after repairing the gearbox, or if lubricant leaks are observed, check gearbox lubricant levels.

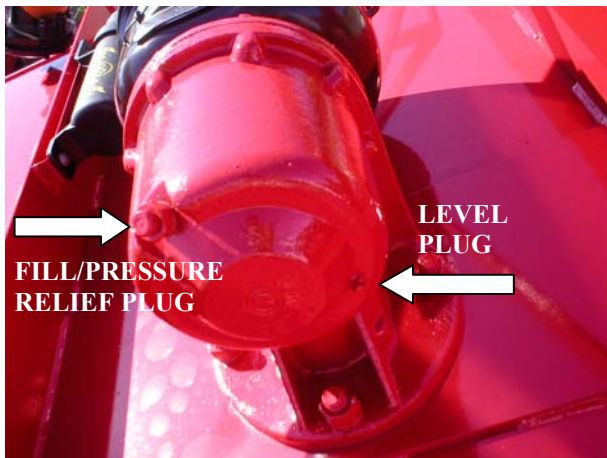
Caution

DO NOT operate the mower if lubricant level is low. Replace damaged seals or gasket and add lubricant to the correct level. DO NOT OVERFILL.

- Position mower on a level surface.
- Visually check and look for leaks in shaft and open plate cover and check for oil in blade pan.
- Remove gearbox lubricant level plug and check lubricant level. Lubricant should be at or near bottom of hole.
- If lubricant is low, remove gearbox Fill/Pressure Relief Plug (P/N 15664) and add SAE 85-140 lubricant until lubricant starts to flow from level inspection hole. DO NOT OVERFILL. Overfilling will induce leakage and cause damage to seals and gaskets.
- Replace Lubricant Level Plug and Fill/Pressure Relief Plug (P/N 15664).

Caution

*FILL/PRESSURE RELIEF PLUG (P/N 15664) Must not be **CLOGGED OR RESTRICTED**. Must be able to vent gearbox.*



Checking Gearbox Lubricant Level

GEARBOX

Gearbox Seals and Gaskets

Check the gearbox for leaks around the seals and gasket daily when the mower is in use. If a shaft seal or gasket is damaged, lubricant will leak out of the gearbox.

- Disconnect driveshaft from gearbox.
- Remove lubricant drain plug and allow all of the lubricant to drain.

Input Shaft Seal and Cover Gasket

- Remove gearbox cover.
- Replace shaft seal and cover gasket.
- Replace gearbox cover.
- Replace drain plug and refill with lubricant.

Output Shaft Seal

- Remove blade holder.
- Remove gearbox from top deck. Drain lubricant.
- Replace shaft seal.
- Install gearbox on top deck.
- Replace drain plug and refill with lubricant.
- Install blade holder.

Gearbox Mounting Hardware

Check that the gearbox is tight on the mower top deck each day the mower is in use. If it becomes loose, tighten the mounting bolts.

SLIP CLUTCH

Danger

NEVER attempt any repairs or adjustments with the tractor engine running or the power take-off engaged. Adjustment of rotating parts while tractor engine is still running can result in serious personal injury or death if the PTO accidentally engages.

See SLIP CLUTCH adjustment procedure in Section 1.

SAFETY SHIELDS

Check safety shields before each use. Check to see that all attaching hardware is tight. Replace any length of chain that has missing or damaged links. Replace rubber belting if damaged. If mower has a haygate, after cutting hay, replace gate, making sure all nuts and bolts are in place and tight. To keep haygate bolts in good condition when operating without gate, replace nuts and bolts and tighten.

MAINTENANCE

TAIL WHEEL

Replace Wheel

Caution

Adequately support the mower and the wheel before removing the axle. Both the wheel and the mower are heavy and could cause damage to the mower or serious injury if dropped.

- Remove wheel axle nuts and axle.
- Remove wheel.
- Position wheel in pivot yoke.
- Install wheel axle and nuts.

Replace Pivot

- Raise and support mower using approved means. Support mower high enough so that pivot shaft can be removed from tail wheel pivot bracket.

Caution

Adequately support the mower and the tail wheel assembly before removing the bolt. Both the tail wheel and the mower are heavy and could cause damage to the mower or serious injury if dropped.

- Remove collar bolt, nut and collar on top of pivot bracket.



Removing Tail Wheel Pivot Collar Bolt

- Remove pivot from pivot bracket.
- Install replacement pivot in bracket.
- Install collar, collar bolt, and nut on pivot on top of pivot bracket.
- Lubricate with lithium EP grease (See LUBRICATION, Section 3).

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HARDEE LIMITED WARRANTY

Hardee warrants its **Equipment** (* Except Hydraulic Mowers) for one year to the original non-commercial, non-governmental, or non-municipal purchaser. And warrants for 90 days to the original commercial, industrial or municipal purchaser, that the goods are free from defects in material or workmanship.

Special OMNI Gearbox Warranty:

OMNI Gearboxes are warranted for a total of

3 years to the original non-commercial user and,

1 year to the commercial user.

This limited warranty does not apply to any part of the goods which has been subjected to improper or abnormal use, negligence, alteration, modification, or accident, damaged due to lack of maintenance, wrong oil or lubricants, or which has served its normal life.

The Warranty Card **must** be filled out and returned **within 30** days of purchase. **NO** warranty will be allowed without a properly completed and returned warranty card.

“Our obligation under this warranty shall be limited to repair or replacement of any part or parts of this implement which in our judgement shows evidence of such defect and provided further that said parts shall be removed and returned by the owner at the owner’s expense to Hardee by EVH Manufacturing Co. LLC, Loris, SC, through an authorized dealer, transportation prepaid, free and clear of liens or encumbrances.

This warranty shall not include normal wear items.

Changes or alterations to the implement made without the **written** authorization of the manufacturer, will render this warranty void.

This warranty does not obligate this company to bear any labor costs in replacement of defective parts.

Hardee by EVH Manufacturing Co., LLC. reserves the right to make changes or improvements in its equipment at any time, with the express understanding that such changes or improvements do not impose any obligation of the company to install such changes or improvements on implements previously manufactured.

IMPLIED WARRANTIES: You may have some implied warranties. For example, you may have an implied warranty of merchantability (that the unit is reasonably fit for the general purpose for which it was sold) or an implied warranty of fitness for a particular purpose (that the unit is suitable for your special purposes). This special purpose must be specifically disclosed to Hardee itself, and not merely to the dealer before your purchase, and Hardee itself, not just the dealer must approve, in writing that the special purpose is warrantable.

These implied warranties do not apply at all if you use your equipment for business or commercial use.

*See separate Hydraulic Mower Limited Warranty for Hydraulics



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