

ROTARY TILLER

OPERATION AND ASSEMBLY MANUAL



For more information and questions, please contact: Tarter Customer Service 1-800-RED-GATE (1-800-733-4283)

Tarter products are sold through Authorized Retailers.

INTRODUCTION

THANK YOU.

Tarter Farm and Ranch Equipment has been improving life on your land since 1945. Thank you for choosing Tarter. You have purchased a dependable Tarter implement. You can expect many years of service when you maintain and use our implement according to this manual and additional information that may be provided at Tarterusa.com.

READ THIS MANUAL BEFORE ASSEMBLING OR OPERATING YOUR TARTER IMPLEMENT.

REQUIRE ALL OPERATORS TO READ THIS MANUAL.

5. All fasteners torqued to specifications in torque

Name

3.

chart. (Pg. 29)

OBSERVE ALL SAFETY INFORMATION IN THIS MANUAL AND SAFETY DECALS ON THE TARTER IMPLEMENT.

If replacement parts are needed, use only genuine Tarter parts, as substitute parts will VOID THE WARRANTY and may not meet standards required to insure dependable use and safe operation.

CUSTOMER INFORMATION

Purchased From		
Date Purchased		
Model		
Serial #		
PREPARAT Verify the following before		
implement is completely assembled.	<u> </u>	Check PTO driveline. Make sure it is the correct
Gearbox is filled with oil and checked for	_	length to operate rotary tiller with intended tractor.
possible leaks.	<u></u> 7.	All decals in place and legible.
All fittings are lubricated.	8.	Overall condition good (i.e. paint, welds)
All shields in place and in good condition.	□ 9.	Operator's manual has been given to owner and

the owner has been instructed on the safe and

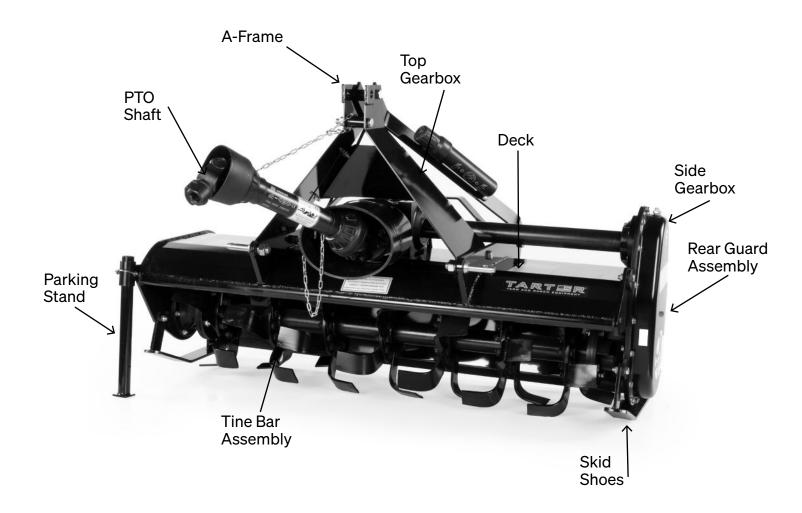
proper use of the Rotary Tiller.

For more information and questions, please contact:
Tarter Customer Service
1-800-RED-GATE (1-800-733-4283)

GENERAL DESCRIPTION

Your Rotary Tiller has been carefully designed for cultivating and stirring up soil for gardens, food plots and other tillage needs. This manual is provided to give you the necessary operation and maintenance instructions for keeping your rotary tiller in excellent operating condition. Please read this manual thoroughly. Understand the purpose of the controls and how to use them. Observe all safety precautions on the machine and as noted throughout this manual. If any assistance or additional information is needed, contact us at 1-800-RED-GATE.

MAJOR COMPONENTS



NOTICE

All information, illustrations, and specifications in this manual are based on the latest information available at the time of publication. Because we are always striving to improve our products, the images could differ slightly from actual equipment. Specifications are subject to change without notice. We also reserve the right to make changes at any time without notice.

TABLE OF CONTENTS

TABLE OF CONTENTS

Description	
Safety	
Safety Description and Decals	6
Assembly	
Attaching	
Modify PTO Driveline	
Operating/Maintenance	20
Reversing Tiller Tine Direction	
Storage	
Product Specifications	24
Parts	
Torque Specifications	30
Trouble Shooting	
Warranty	
Notes	34

THE BEST SAFETY DEVICE IS AN INFORMED, CAREFUL OPERATOR. WE ASK YOU TO BE THAT KIND OF OPERATOR.

YOUR SAFETY is our concern. We design and manufacture our implements with this in mind. Our design can't eliminate an operator's careless actions. Hazard control and accident prevention are dependent upon the awareness, concern, judgment, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

CALIFORNIA PROPOSITION 65 WARNING: Cancer and reproductive harm - www.P65Warnings.ca.gov

Throughout this manual, the term <u>IMPORTANT</u> is used to indicate that failure to observe procedures can cause damage to equipment. The terms <u>CAUTION</u>, <u>WARNING</u> and <u>DANGER</u> are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.



This Safety-Alert Symbol indicates a hazard and means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



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



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.



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

IMPORTANT

Indicates that failure to observe can cause damage to equipment.

NOTE

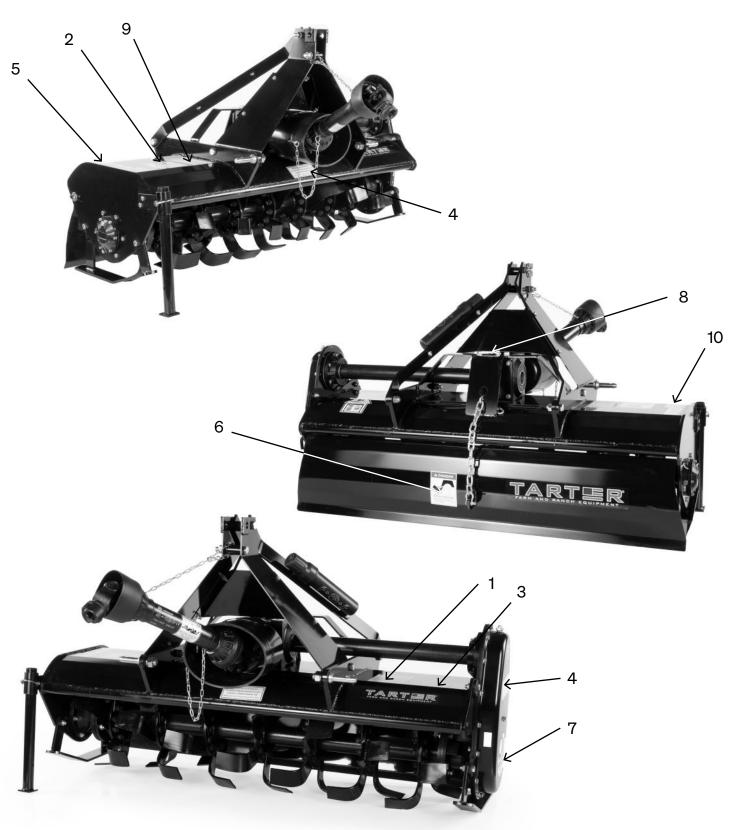
Indicates helpful information.

SAFETY AND INSTRUCTION DECALS

SAFETY AND INSTRUCTIONAL DECALS ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

A

Replace Immediately if Damaged!





SAFETY AND INSTRUCTIONAL DECALS ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Slip Clutch Adjustment (when unit is supplied with one)

The Slip Clutch is designed to slip so that the

gearbox and driveline are protected if the implement strikes an obstruction.

A new slip clutch or one that has been in storage over the winter may seize. Before

operating the implement, make sure it will slip by performing the following: 1. Turn off tractor engine and remove key

2. Remove driveline from tractor PTO. 3. Loosen the cap screws to remove

all tension from the spring plate.

make sure clutch slips.

and clutch hub.

Reassemble clutch.

clutch stops slipping.

thickness is 1/16".

4. Hold clutch hub solid and turn shaft to

If clutch does not slip freely, dissembled and

clean the thrust plate faces, flange yoke,

7. Finger tighten spring until it is against the thrust plate of the clutch and then tighten

each of the nuts by 1 1/2 - 2 full rotations.

Try the Implement and watch for clutch to slip. Adjust nuts another 1/2 turn as needed until

If clutch continues to slip when the spring is

compressed check friction disc for excessive wear. Discs are 1/8" when new. Replace discs after 1/16" wear. Minimum disc

AWARNING

TO PREVENT SERIOUS INJURY OR DEATH Keep hands and body out of hitch area

Keep body clear of crush point between tractor and tiller.

when attaching tiller to tractor

Replace Immediately if Damaged!

AWARNING

To prevent serious injury or death:

Sino lee ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad.

- Read and understand Operator's Manual before using
- Do not permit riders on the tractor or tiller, including children
- Do not allow children to operate tiller.

 Operate only with guards installed and in good condition.

 Keep away from moving parts.
- Operate only with tractor equipped with ROPS and
- Use extra care when operating on rough terrain or when rocks or debris are present.
- Do not operate in the raised position.
- Stop engine, lower tiller, set brake and wait for all moving parts to stop before dismounting.
- Support tiller securely before working beneath unit.

 Transport with clean reflectors, SMV and working lights as required by federal, state, and local laws.
- Keep yourself, others, and clothing away from the rotating PTO.
- Operate only at a safe distance from bystanders.
- Do not stand between tractor and tiller
- Be careful on uneven terrain. Decrease speed when turning.
- Locate underground utility lines before tiling. Do not exceed a safe transport speed.



ROTATING TINES HAZARD

- · Keep away from rotating tines.
- · Rotating tines may cause serious injury or death.



ITEM 6

ITEM 9

ITEM 1





ROTATING DRIVELINE HAZARD **KEEPAWAY**

To prevent serious injury or death from rotating driveline:

- Keep all guards in place when operating. Operate only at 540 RPM. Keep hands, feet, hair and clothing away
- from moving parts.
 Do not operate without driveline securely attached at both ends.
 Do not operate without driveline shields that
- turn freely on driveline.

ITEM 8

Operators Manuals are available from your dealer, or

www.tarterusa.com

TARTER

ITEM 3

ITEM 5





ITEM 7

ITEM 10

ITEM 2

SHIPPED WITHOUT OIL IN GEAR BOX AND WITHOUT GREASE IN GREASE FITTINGS. "CONSULT OWNERS MANUAL FOR LUBRICATING AND OPERATING INSTRUCTIONS."

ITEM 4

SAFETY GUIDELINES

At Tarter, we care about your safety. Most accidents can be avoided by a few seconds of thought and a careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions and insist those working with you follow them too.

If you need assistance or a replacement manual and safety decals, go to Tarterusa.com or call 1-800-RED-GATE.

PLEASE READ YOUR TRACTOR/AUV/UTV (POWER UNIT) MANUAL BEFORE ASSEMBLING OR OPERATING YOUR TARTER IMPLEMENT.

In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, a Tarter implement should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.

Replace any safety decal that is illegible or missing. Location of such safety decals are indicated in this manual.

Never use alcoholic beverages or drugs that can hinder alertness or coordination while operating the power unit or the Tarter implement. Consult your doctor about operating this machine while taking prescription medications.

Under no circumstances should children under the age of 18 be allowed to operate the power unit or the Tarter implement. Do not allow persons to operate or assemble the Tarter implement until they have read this manual and have developed a thorough understanding of the safety precautions and how it works. Review the safety instructions with all users annually.

This Tarter implement can be dangerous to children and persons unfamiliar with its operation. The operator should be a responsible, properly trained and physically able person familiar with farm machinery and trained in this Tarter implement's operations.

Always use a power unit equipped with a Roll Over Protective System and seat belts(ROPS). Keep your seat belt securely fastened because falling off can result in your death from being run over or crushed. Always keep a foldable ROPS system in the "locked up" position at all times.

Never exceed the limits of any piece of machinery, whether the power unit of the Tarter implement. If its ability to perform a job safely is in question **DO NOT TRY IT.**

Do not modify the Tarter implement in any way. Unauthorized modification could result in serious injury or death and may impair the function and life of the implement.

In addition to the design of this implement, including safety signs and safety 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 Tarter implement. Refer also to safety messages and operation instruction in each of the appropriate sections of the power unit and Tarter implement manuals. Heed the safety signs affixed to both the power unit and Tarter implement.



DANGER: Failure to follow instructions or safety rules can result in serious injury or death.

Follow all safety rules and safety decal information.

Your Tarter implement is attached to a power unit. You must know the controls of your power unit and how to stop the engine and implement quickly in an emergency. All operators must be capable to safely operate the power unit, its attachments, and all controls.



DANGER: DO NOT allow anyone to operate the power unit or the Tarter implement without proper instruction.

PREPARATION

Always wear relatively tight and belted clothing to avoid getting caught in any moving part. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, ears, and head. Wear respirator or filter mask when appropriate. Before using the Tarter implement, check all driveline guards for damage and replace any damaged guards. Make sure all guards rotate freely on all drivelines. Inspect chain or rubber guards before each use and replace any that are damaged.

Check that all hardware is properly installed.

Always tighten to torque chart specifications unless instructed otherwise in this manual.

Make sure the Tarter implement is properly secured, adjusted and in good operating condition.

Before using the Tarter implement, check and adjust PTO driveline length as instructed in this manual. The driveline must not bottom out or pull apart throughout the full range of the tractor hitch.



IMPORTANT: DO NOT operate PTO until driveline length is correct.

Make sure PTO driveline shield safety chain is attached as shown in this manual and replace if damaged or broken. Make sure collar slides freely and is seated firmly in tractor PTO spline groove.

A minimum of 20% of tractor weight must be on the tractor's front wheels when Tarter implements are in use. Without this weight, the tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and Tarter implement. **DO NOT ESTIMATE.**

STARTING AND STOPPING

Check the Tarter implement master shield over the PTO stub shaft. Make sure it is in good condition and fastened securely to the power unit. Purchase a new shield if old shield is damaged or missing.

All power units that are not equipped with a "live" power takeoff (PTO) must be equipped with an over-running PTO clutch. These are available through most farm equipment stores.



NOTE: The addition of an over-running PTO clutch may change the length of the PTO driveline required. Be sure to refer to the instructions on the PTO driveline installation. Be sure that the driveline system guarding is adequate.

The Tarter implement is operated from power supplied from the power unit PTO. Refer to the power unit manual for PTO engagement and disengagement instructions.

Understand how to stop the power unit and Tarter implement quickly in case of an emergency.

When engaging the PTO, the engine RPM should always be at idle speed. Once engaged and ready to start, raise PTO speed to 540-RPM and maintain throughout operation.

TRANSPORTATION

Never transport the power unit or the Tarter implement while under the influence of alcohol or drugs.

Always comply with all federal, state and local laws regarding lighting, marking requirements and transportation of farm equipment on a public roadway.

Transport only in daylight or satisfactory artificial light.

Be aware of overhead utility lines.

Never allow riders on the power unit or Tarter implement. Do not operate PTO during transport.

Watch for hidden hazards on the terrain during transport.

Do not operate or transport on steep slopes.

Do not stop, start or change directions suddenly on slopes.

Use extreme care and reduce ground speed on slopes and rough terrain. When encountering rough terrain during transport, reduce the power unit speed to minimize the horizontal movement of the Tarter implement.

Stabilizer bars should be used during transport to reduce lateral movement of the Tarter implement.

Ensure the towing vehicle and trailer are safely capable of transporting the Tarter implement and that everything is properly secured.

OPERATION

Never operate the power unit or the Tarter implement while under the influence of alcohol or drugs.

Operate only in daylight or satisfactory artificial light.

Do not allow bystanders in the area when operating, attaching, removing, assembling or servicing the power unit or Tarter implement.

Never discharge directly toward people, animals or property.

Ensure the rear-guard assembly is in place to reduce the possibility of objects being thrown.

This Tarter implement is intended for agricultural applications only. Do not operate within 300 feet of bystanders or public roads or highways.

Keep hands, feet, hair and clothing away from the power unit and Tarter implement while the power unit engine is running. Stay clear of all moving parts.

Always sit in the power unit seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake and ensure all other controls are disengaged before starting the power unit engine.

DO NOT EXCEED the power unit PTO at 540 RPM.

Look down and to the rear and make sure area is clear before operating in reverse. **REVERSE OPERATION IS NOT RECOMMENDED.**

Be aware that turning the power unit tightly may cause the Tarter implement to come in contact with the rear wheels of the power unit and cause damage or injury.

Watch for hidden hazards on the terrain during operation.

Do not operate on steep slopes.

Do not stop, start or change directions suddenly on slopes.

Use extreme care and reduce ground speed on slopes and rough terrain. When encountering rough

terrain, reduce the power unit speed to minimize the horizontal movement of the Tarter implement.

Stop the power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

MAINTENANCE

Make certain all movement of the power unit and Tarter implement components has stopped before approaching for service.

Before detaching the power unit from the Tarter implement or performing any service or maintenance, follow these steps: disengage power to the power unit, lower the 3-point hitch and all raised components to the ground, set parking brake, stop engine, remove key and unfasten seat belt. Before performing any service or maintenance, disconnect driveline from tractor PTO.

Before working underneath the power unit or a Tarter implement, carefully read this manual's instructions, disconnect driveline, raise implement, securely block up all corners with jack stands, and check stability. Secure blocking prevents a Tarter implement from dropping due to hydraulic leak down, hydraulic system failures or mechanical component failures.

Never go underneath a Tarter implement (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body underneath the power unit or a Tarter implement or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause a Tarter implement to drop or rotate unexpectedly and cause severe injury or death. Follow the power unit and Tarter implement manual for working underneath and blocking procedures.

Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, ears, and head. When appropriate wear a respirator or filter mask.

Keep all persons away from you while performing adjustments, service or maintenance.

Frequently check blades/tines/shanks. They should be sharp, free of nicks and cracks and securely fastened. Do not handle blades/tines/shanks with bare hands. Careless or improper handling may result in serious injury.

Do not modify, alter, or permit anyone else to modify or alter the power unit, the Tarter implement or any of their components in any way, except as outlined in this manual.

STORAGE



WARNING: Never attempt to move Tarter implement by hand.

Always use a power unit to position a Tarter implement for storage.

Block the Tarter implement securely for storage.

Keep children and bystanders away from storage area.

OPERATING INSTRUCTIONS

- 1. Before each use, perform all necessary maintenance described in the maintenance section.
- Read, understand and follow the safety information pertaining to training, preparation, starting and stopping, operation, transportation, maintenance and storage at the beginning of this manual.

TOOLS REQUIRED

- TIN SNIPS
- SOCKETS AND WRENCHES 9/16", 3/4", 15/16", AND 1-1/4". (IMPACT WRENCH IS PREFERRED)
- 1. With Rotary Tiller still in the rack, set it on a level spot for assembly.



2. Remove the PTO Shaft, leaving the chains attached to the PTO.



3. Remove lift arms and backstraps using a 3/4" wrench. Set aside after removing.

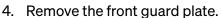
*BOLTS CAN BE DISCARDED.





*Remove the hardware box and set aside.

(Hardware box contents are listed on pg. 28).







5. Insert lift strap and slowly lift tiller.



DANGER: Be cautious of weight shifting when lifting.



6. With pressure relieved for the bolts, remove the bolts from the tiller rack, using 3/4" wrenches.

*BOLTS AND NUTS CAN BE DISCARDED.

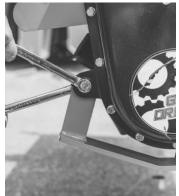


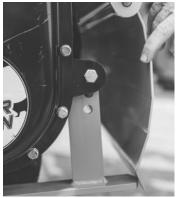
7. Before setting on level ground, remove the pin from the kick stand, flip the kick stand over and set at desired height.





8. Adjust skid shoe as needed.





9. Set the Rotary Tiller on level ground.



10. Install the lift arms onto the Rotary Tiller, using the CAT I pins and the 5/8" x 2" Grade 5 bolts, with nuts and washers, on the inside of the deck bracing.



*CAT I pins are installed in the front hole and (2) 5/8" x 2" Grade 5 bolts are installed in the rear.





11. Attach the rounded end of the backstraps to the outside of the rear tiller deck bracing using (2) 5/8" x 2" Grade 5 hex bolt with nuts and lock washers.



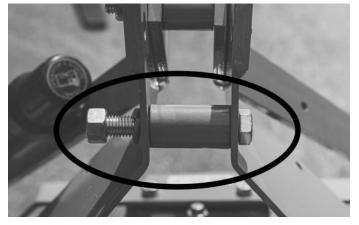


- 12. Repeat for opposite side.
- 13. Attach the square end of the backstraps to the inside lift arms plates using the 1-1/2" spacer and 5/8" x 4" hex bolt, nuts and lock washers.



ASSEMBLY

14. Using the 5/8" x 4" hex bolt, install the 2-1/4" spacer.



15. Attach the front guard plate to the lift arm plates using (4) 3/8" x 1" hex bolt, nuts and lock washers.



- 16. Fully tighten all bolts.
- 17. Install the PTO guard using (4) ¼ " x ¾" hex bolts and flat washers. Make sure the opening on the PTO guard is on the top.



18. Install PTO driveline.

- 19. Remove the bolt from the PTO shaft. Slide the PTO shaft onto the gearbox and reinstall the bolt through the opening in the PTO shaft guard.
- 20. Assembly of your Rotary Tiller is now complete. Please read the next section of this manual for filling gearboxes with oil and lubricating instructions and sizing your PTO (if applicable).

BEFORE PUTTING YOUR ROTARY TILLER INTO SERVICE

A

IMPORTANT: This tiller was shipped without oil in the gearboxes and without grease in the the grease fittings.

UNIT MUST BE SERVICED BEFORE USE.

NOTE: Fill the gearboxes using EP 85-90W gear oil. For all grease fittings use TYPE/Grade II tube grease.

- Please ensure that your Rotary Tiller is secure and level.
- 2. Using a 7/8" wrench, remove the ½" vented pipe plug located on top of the gearbox.



3. Using a 9/16" wrench, remove the check plug, located on the back of the gearbox.



4. Fill the gearbox using specified gear oil, until oil begins to overflow from the check plug hole in the rear. (Holds approx. 1-1/2 quarts.)



IMPORTANT: DO NOT overfill gearbox. This could cause damage to oil seals and can cause permanent damage to the gearbox. This issue will not be covered under warranty.

- 5. Replace and tighten the check plug.
- 6. Replace and tighten the ½" vented pipe plug and clean away any excess oil.

7. Using a 7/8" wrench, remove the ½" pipe plug located at the top of the side gearbox and a 9/16" wrench to remove the 1/8" check plug located on the side of the side gearbox.





8. Fill the side gearbox using specified gear oil until the oil begins to overflow from the check plug hole. (Holds approx. 2-1/2 quarts.)



IMPORTANT: DO NOT overfill gearbox. This could cause damage to oil seals and can cause permanent damage to the gearbox. This issue will not be covered under warranty.

- 9. Replace and tighten the ½" vented pipe plug and the 1/8" check plug. Clean away any excess oil.
- 10. Grease the grease fitting on the out-board hub.
- 11. Grease the two grease fittings on the PTO universal joints.
- 12. Grease the two grease fittings on the PTO safety
- 13. Separate the PTO shaft and grease the inner surface.

ATTACHING TO A TRACTOR

- 1. Place tiller and tractor on level ground.
- 2. Back tractor into position by lining up lift arms and Category I pins on the tiller. Attach lift arms to Category I pins and secure with lynch pins.





3. Attach top link using Category I lift pin and lynch pin.





- 4. Attach PTO driveline and secure anti-rotation chains.
- 5. Once everything is securely attached, raise tiller off the ground and adjust the top link so the tiller sets level from front to back.
- 6. Determine if the PTO shaft needs to be shortened.



IMPORTANT: A driveline that is too long to fit between tractor and tiller will bottom out causing structural damage to the tractor and tiller

7. Always check driveline collapsible length during initial setup, when connecting to a different tractor and when alternating between using a quick hitch and a standard 3-point hitch. More than one driveline may be required to fit all applications.

- 8. Make sure driveline is properly installed and level before checking driveline collapsible length.
- With driveline level, measure 1" back from universal joint shield to end of outer driveline shield. If measurement is less than 1", then shorten driveline using instructions provided in section "Sizing The PTO Shaft".

Final Inspection and Adjustments

IMPORTANT: PTO driveline may be too long for some tractor models, causing tractor transaxle damage. Modify driveline if necessary.

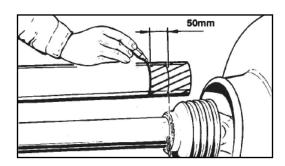
Attach Rotary Tiller to tractor and check tiller-to-tractor driveline telescoping length clearance.

(See MAINTENANCE BEFORE EACH USE in Lubrication and Maintenance section.)

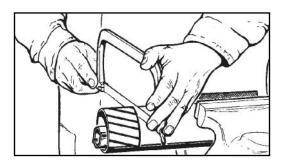
MODIFY PTO DRIVELINE

Modify PTO Driveline (If Necessary)

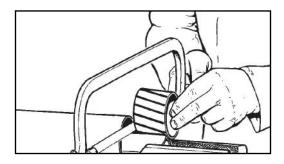
1. To adjust the length, hold the half-shafts next to each other in the shortest working position and mark them.



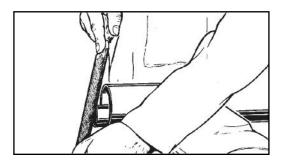
2. Shorten inner and outer guard tubes equally.



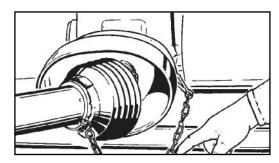
3. Shorten inner and outer sliding profiles by the same length as teh guard tubes.



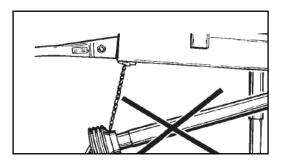
 Round off all sharp edges and remove burrs.
 Grease sliding profiles. No other changes may be made to PTO drive shaft and guard.



5. Chains must be fitted so as to allow sufficient articulation of the shaft in all working positions.



6. The PTO drive shaft must not be suspended from the chains.



SIZING THE PTO SHAFT

Refer to Figure 1

- 1. Detach the driveline from tractor PTO shaft and pull outer and inner drivelines apart.
- 2. Reattach outer driveline to tractor PTO shaft. Pull on inner and outer drivelines to ensure universal joints are properly secured.
- 3. Hold inner and outer drivelines parallel to each other:
 - a. Measure 1" ("B" dimension) back from outer driveline universal joint shield and make a mark at this location on the inner driveline shield.
 - b. Measure 1" ("B" dimension) back from inner driveline universal joint shield and make a mark at this location on the outer driveline shield.
- 4. Remove driveline from tractor and gearbox shafts.
- 5. Measure from end of inner shield to scribed mark ("X" dimension). Cut off inner shield at the mark. Cut same amount off the inner shaft ("X1" dimension).
- 6. Measure from end of outer shield to scribed mark ("Y" dimension). Cut off outer shield at the mark. Cut same amount off the outer shaft ("Y1" dimension).
- Remove all burrs.
- 8. Continue with "Check Driveline Maximum Length".

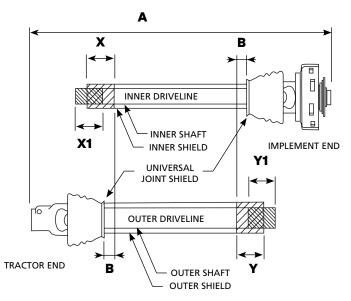


Figure 1 - Driveline Shortening

CHECK DRIVELINE MAXIMUM LENGTH

Refer to Figure 2

Make sure driveline's collapsible length is acceptable.

The driveline maximum allowable length must, when fully extended, have a minimum overlap of the profile tubes by not less than 1/3 the free length with both inner and outer profile tubes being of equal length.

- 1. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.
- 2. Assemble the two driveline profiles together with 1/3 of the profile tubes overlapping as shown below. Once assembled, measure and record the maximum allowable length for future reference.
- 3. Attach inner driveline yoke to the tiller's gearbox shaft. Attach outer driveline yoke to the tractor's PTO shaft.

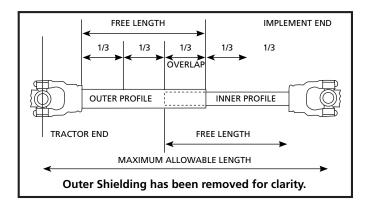


Figure 2 - Driveline Maximum Extended Length

4. Move yoke ends of driveline back and forth to insure they are secured to the tractor and tiller shafts. Reattach any end that is loose.



IMPORTANT: Small chains are supplied with the driveline. They must be attached to the inner and outer driveline shields and to the tiller and tractor to restrict shield rotation.

- 5. Hook driveline safety chain on the tractor end of driveline to tiller frame. Re-latch safety chain to the driveline shield.
- 6. Hook driveline safety chain on the Rotary Tiller end of driveline to the tiller frame. Re-latch safety chain to driveline shield.

- 7. Start tractor and raise Rotary Tiller just enough to remove support blocks.
- 8. Slowly engage tractor hydraulic 3-point control lever to lower the tiller while checking for sufficient drawbar clearance. Move drawbar in, aside or remove if required.
- 9. Raise and lower implement to find maximum extended driveline length. Check to make certain the driveline does not exceed maximum allowable length recorded in step 2.
- 10. If needed, set tractor 3-point lift height to stop driveline from exceeding maximum allowable length.
- 11. Continue with "Check Driveline Maximum Angle" below.

CHECK DRIVELINE MAXIMUM ANGLE

Refer to Figure 3



IMPORTANT: To avoid premature driveline breakdown, do not exceed an angle of 25° up or down with the driveline while driveline is rotating. If needed, set tractor 3-point left lever to limit driveline angle at a maximum of 25° up.

- 1. Raise and lower implement to find maximum driveline angle. Check to make certain the driveline does not exceed 25° up or down.
- 2. If needed, set tractor 3-point lift height to keep driveline from exceeding 25° up.

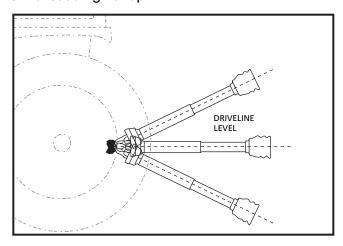


Figure 3 - Check Driveline Maximum Angle

OPERATING/MAINTENANCE

OPERATING INSTRUCTIONS

- 1. With the Rotary Tiller positioned on level ground, adjust the tractor lift arms so that when lifted, the rotor bar remains parallel to the ground.
- 2. With the Rotary Tiller attached to the tractor, raise and support the tiller with suitable blocks. Adjust the skids, located on the sides of the tiller. The adjustment bolts for both right and left sides should be adjusted in the same hole. This allows the tiller to till the same depth on each side. Adjust the rear guard assembly, with regulating chain, until the desired mulching effect is found.
- 3. Raise the tiller and remove the blocks.
- 4. With the tractor at idle RPM and the tiller lifted off the ground, engage the PTO and slowly advance throttle to 540 PTO RPM.
- 5. Select a low gear for the tractor and begin to move forward. Tractor ground speed is to be controlled by gear selection only and not engine speed. As the tractor moves forward, slowly lower the tiller down. Allow the tiller tines to gradually engage the ground.



IMPORTANT: Do not allow the tractor engine or Rotary Tiller to bog down or stall. This causes undue wear and tear on the tiller and tractor.

 After each use clean all debris from the tiller tines.
 Replace any missing or illegible safety decals. Inspect for any damaged or worn parts and replace before next use. Store Rotary Tiller in a dry environment.

MAINTENANCE

- 1. Periodically check and maintain proper gear oil level.
- 2. Every 8 hours, grease: (1) outboard hub, (2) PTO shaft universal joints, (3) PTO shaft safety shield and (4) PTO telescoping surface.
- 3. Check tiller tines for cracks and breaks before every use.

- 4. Slip clutch operational check. After the implement has been stored for thirty days or more perform the following operational check.
 - a. Loosen bolts and lock nuts progressively until tension is relieved.
 - b. To aid in determining slippage, scribe/mark a line across clutch plate and Belleville Spring.
 - With tractor at idle speed, engage tractor PTO drive 2-3 seconds. Clutch should slip without turning blades.
 - d. To retighten the slip clutch, tighten the torque spring bolts until the nut makes contact with the flange yoke and further tighten one and a (1-1/2) half turns.



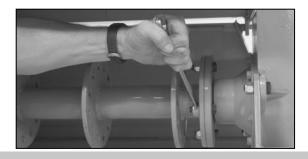
IMPORTANT: Slip clutch components must be free to rotate when necessary. After thirty days or more, linings of slip clutch may draw moisture. Linings may bond to metal parts causing slip clutch to be ineffective, resulting in machine damage.



NOTE: While this is a good starting point, further adjustments may need to be made based on soil conditions.

REVERSING TILLER TINE DIRECTION

- Detach tiller from tractor.
- 2. Make sure tiller is securely blocked and level.
- 3. Remove PTO shaft from tiller.
- 4. The tines <u>must</u> be reversed on the tiller before reverse operation.



A

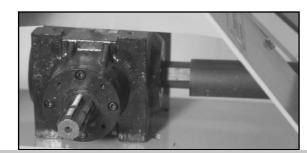
CAUTION: The bar assembly is heavy and contains sharp edges. Handle carefully!

- 5. Remove four (4) bolts in each end of tine carrier
- 6. Carefully remove tine bar assembly and turn 180° and place in front of the tiller. Before reattaching the tines, remove gearbox.





7. Loosen and remove a total of (6) bolts, (2) on top of gear box and (4) underneath.



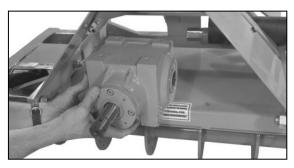
A

CAUTION: Gearbox is extremely heavy. Handle with care.

8. Slide gearbox to left approximately 5". Side hex shaft should drop out of gearbox on right hand side.



NOTE: If hex shaft does not come out of gearbox, simply slide hex shaft out of side gearbox first and then remove it from main gearbox.



9. Slide gearbox forward and out.



10. Remove vent plug from top of gear box.



11. Remove flat plug from bottom of gear box. Switch the vent plug from top of gearbox to bottom and flat plug from bottom to top.



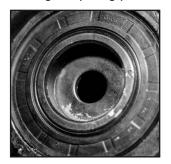
REVERSING TILLER TINE DIRECTION

12. On the side opposite where hex shaft was inserted, find washer held in by snap ring.





13. Using snap ring pliers, carefully remove snap ring.



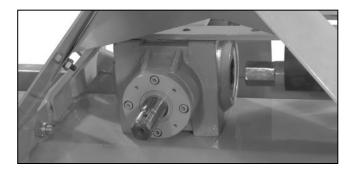


14. Remove washer from hex shaft hole as well.





- 15. Put washer and snap ring back into the hole where the hex shaft was just removed.
- 16. Flip gearbox over and re-insert into frame.

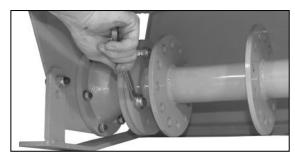


- 17. Slide hex shaft into the now opened hex shaft hole on opposite side of the gearbox.
- 18. Slide gearbox back to center of tiller.
- 19. Reinsert 6 bolts (2 top, 4 bottom).



NOTE: DO NOT tighten any of the six gearbox bolts until all six have been threaded and started.

20. Once hex shaft is successfully reinserted and all 6 bolts are started by hand, tighten all 6 bolts on gearbox.



Carefully reattach the tine bar assembly to each hub.



CAUTION: Tine bar assembly is heavy and contains sharp edges. Handle carefully!



NOTE: Instructions made with tines partially removed for instructional clarity only.

21. Your tiller unit should now turn and will with reverse direction.

STORAGE



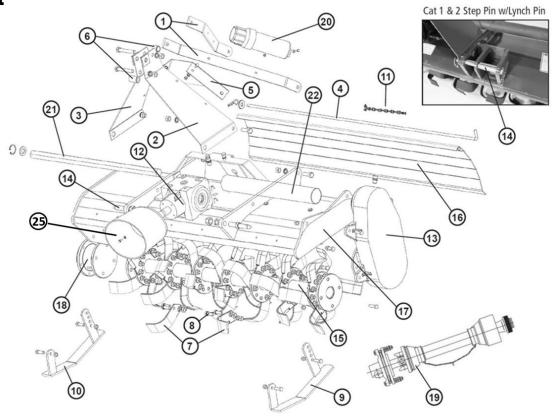
IMPORTANT: When the unit is going to be stored for an extended amount of time, please perform the following steps to keep the oil seals from deteriorating.

- Spray shaft extensions with a suitable dry film or similar preservative.
- Pack grease around the seal to prevent drying or cracking.
- Fill gearboxes with enough oil so that it covers the top of the input seal.
- Remove the breather and replace with an airtight plug.
- Remember to drain the oil back to the correct level before using again and put breather plug back in.

PRODUCT SPECIFICATIONS

	RT205BL RT206BL		RT207BL	
Recommended tractor PTO Horsepower	25-50	30-55	45-60	
Weight	638 lbs.	718 lbs.	800 lbs.	
Max Working Depth	7"	7"	7"	
Working Width	58.75"	70.59"	82.43"	
Overall Width	64"	76"	89"	
Hitch	Cat 1/ quick hitch compatible	Cat 1/ quick hitch compatible	Cat 1 & 2/ quick hitch compatible	
Driveline	540 RPM Slip Clutch Protection	540 RPM Slip Clutch Protection	540 RPM Slip Clutch Protection	
Number of flanges on rotor	7	9	10	
Number of tines per flange	6	6	6	
Rotor Rotation	Reversible (FWD/ REV)	Reversible (FWD/ REV)	Reversible (FWD/ REV)	
Rotor Shaft Speed	211 rpm @ 540 rpm PTO	211 rpm @ 540 rpm PTO	211 rpm @ 540 rpm PTO	
Skid shoes	adjustable (0.4", 1.4",2.4")	adjustable (0.4", 1.4",2.4")	adjustable (0.4", 1.4",2.4")	
Top Gearbox construction	Cast Iron Housing, Hardened Steel Gears	Cast Iron Housing, Hardened Steel Gears	Cast Iron Housing, Hardened Steel Gears	
Side Gearbox construction	Formed Steel Housing, Hardened Steel Gears	Formed Steel Housing, Hardened Steel Gears	Formed Steel Housing, Hardened Steel Gears	
Gearbox lubrication	EP 80-90W gear oil	EP 80-90W gear oil	EP 80-90W gear oil	
Major Construction	3/8" solid steel gearbox plate and endplates, 5/8" steel hitch frame	3/8" solid steel gearbox plate and endplates, 5/8" steel hitch frame	1/2" solid steel gearbox plate and endplates, 3/4" steel hitch frame	

Rotary Tiller Parts List RT205BL,RT206BL, RT207BL



Item#	Part#	Description	
1	9000167	Tiller Backstrap w/ Hardware (2pk) (Black) (4',5',6',&7')	
2	9000168	Tiller LH Lift Arm w/ Hardware (Black) (4',5',&6')	
2a	9000169	Tiller LH Lift Arm w/ Hardware (Black) (7')	
3	9000170	Right Hand Lift Arm w/ hardware (black) (4',5',&6')	
За	9000171	Right Hand Lift Arm w/ hardware (black) (7')	
4	9000172	Rear Guard Steel Hinge w/ Hardware (black) (4')	
4a	9000173	Rear Guard Steel Hinge w/ Hardware (black) (5')	
4b	9000174	Rear Guard Steel Hinge w/ Hardware (black) (6')	
4c	9000175	Rear Guard Steel Hinge w/ Hardware (black)(7')	
5	9000176	Front guard plate w/ Hardware (black) (4',5',6',&7')	
6	9000177	Top Link Spacer (black)	
6a	9000178	Back Strap Spacer (black)	
7	9000012	Right Hand Tine Package w/ Hardware	
7a	9000013	Left Hand Tine Package w/ hardware	
8	P-P1813	Tine Bolt Package (4')	
8a	P-P1814	Tine Bolt Package (5')	
8b	P-P1815	Tine Bolt Package (6')	
8c	7TTBP	Tine Bolt Package (7')	

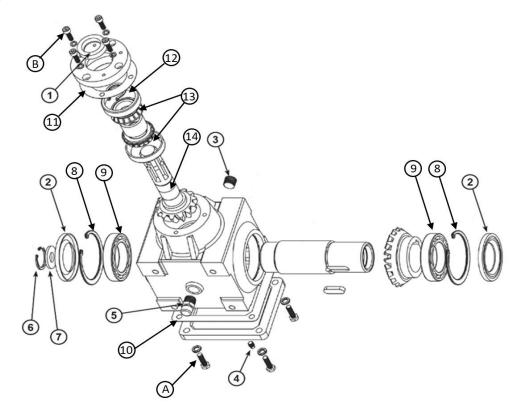
PARTS

9,10	9000179	(black) Universal Skid Shoe w/ Hardware (4',5',&6' works as right hand or left hand)
9a	9000180	Left hand Tiller Skid Shoe (black) (7')
10a	9000181	Right hand Tiller Skid Shoe (black) (7')
11	P-P1826	16 Link Chain (18" long)
11a	P-P1827	1/4" Chain Shackle
12	9000014	Tiller Top Gearbox w/ Hardware (4',5',6',&7')
13	9000015	Tiller Side Gearbox w/ Hardware (4',5',6',&7')
14	C1L	Tiller Category 1 Lift Pin (4',5',6')
14a	7TC12SPWLP	Tiller Category 1&2 Step Lift Pin (7')
15	9000016	Rotor Assembly w/ Hardware (4')
15a	9000017	Rotor Assembly w/ Hardware (5')
15b	9000018	Rotor Assembly w/ Hardware (6')
15c	7TRAWH	Rotor Assembly w/ Hardware (7')
16	9000182	Rear Guard Assembly (black) (4')
16a	9000183	Rear Guard Assembly (black) (5')
16b	9000184	Rear Guard Assembly (black) (6')
16c	9000201	Rear Guard Assembly (black) (7')
17	9000202	Frame Assembly (black) (4')
17a	9000203	Frame Assembly (black) (5')
17b	9000204	Frame Assembly (black) (6')
17c	9000185	Frame Assembly (black) (7')
18	9000019	Tiller Outboard Hub Assembly Assembly w/ Hardware
19	4-30QDTL	Tiller PTO shaft Assembly
19a	I12TPTO	implement Half Tiller PTO Shaft
19b	T12TPTO	Tractor Half Tiller PTO Shaft
19c	FF0.3	PTO Shaft Friction Discs (2pk)
20	P-P1870	Tiller manual Holder w/ Hardware
21	P-P1825	Hexagon Drive Shaft (4')
21a	P-P1903	Hexagon Drive Shaft (5')
21b	P-P2003	Hexagon Drive Shaft (6')
21c	7THS	Hexagon Drive Shaft (7')
22	P-P1824	Driveline Shaft Guard (4')
22a	P-P1902	Driveline Shaft Guard (5')
22b	P-P2002	Driveline Shaft Guard (6')
22c	TA5	Driveline Shaft Guard (7')
23	STTHP	Hardware Pack (4',5',6') not shown
23a	7STHP	Hardware Pack (7') not shown
24	7TSWH	Tiller Stand w/ Hardware (4',5',6',&7')
25	36-040	Black Gearbox Shield

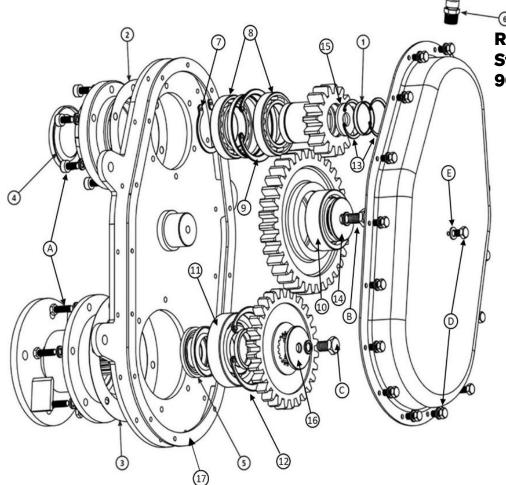
26

RT205BL,RT206BL,RT207BL

Tiller Top Gearbox 9000014



Item#	Part#	Description
1	S-201	Seal
2	S-209	Seal
3	S-504	Pipe Plug-Inner 6f
4	S-122	14×7.5×40mm key
5	S-502	Vent Plug
6	S-407	Retaining Ring
7	1G150-45	Washer
8	S-406	Retaining Ring
9	S-124	Bearing
10	H-C0144	Gasket (rectangle)
11	H-C0142	Gasket
12	S-403	Retaining Ring
13	S-123	Bearing
14	H-C0125	Input Shaft
15	S-404	72mm retaining ring
16	S-102	6207 bearing
17	S-509	M-10 seal ring
Α	non-service	3/8"-16 × 1" bolt with 3/8" split lock washer
В	non-service	M8 × 25 metric hex socket screw w/ M8 split lock washer
С	non-service	Bolt (3/8"-16 × 5/8")
D	non-service	3/8" split lock washer



RT205BL,RT206BL,RT207BL Standard Tiller Side Gearbox 9000015

Item #	Part#	Description
1	H-C0245	Side Gearbox Sealed Cap
2	2000016	Side Gearbox Gasket-Input
3	2000018	Side Gearbox Gasket-Output
4	S-212	Input Seal
5	S-211	Output Seal
6	S-502	Vent Plug
7	S-411	Retaining Ring
8	S-124	Bearing
9	S-406	Retaining Ring
10	S-126	Bearing
11	S-133	Bearing
12	S-410	Retaining Ring
13	S-412	Retaining Ring

Item #	Part#	Description
14	H-C0253	Washer
15	H-C0216	Washer
16	H-C0255	Washer
17	2000019	Main Seal Ring
A	Non-Service	3/8"-16×1" hex bolt w/ 3/8" split lock washer
В	Non-Service	3/8"-16×1" hex bolt w/ 3/8" split lock washer
С	Non-Service	1/2"-13×1.25" hex bolt w/ 1/2" split lock washer
D	Non-Service	3/8"-16×17 mm hex bolt w/ 3/8" flat washer
Е	Non-Service	M10 rubber seal washer

RT205BL and RT206BL Hardware Box (STTHP) includes:

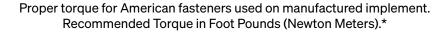
1/4" Plated Proof Coil 1 Chain X 19" Pin, Category 1 Plated 4" 2 5/8" - 11 × 2" Hex Bolt 4 GR5 5/8" Split Lock Washer 6 5/8" - 11 Hex Nut 6 5/8" - 11 × 4" Hex Bolt 2 GR5 3/8 - 16 × 1" Hex Head 4 **Bolt Plated** 3/8" Split Lock Washer 4 3/8" GR5 Hex Nut 4 1/4" - 20 × 3/4" Hex Bolt 4 1/4" Screw Pin Chain 1 Shackle 1/4" Flat Washer 4

RT207BL Hardware Box (7STHP) includes:

Step Pin,	_
Category 1 & 2	2
7/16" Lynch Pin	2
5/8" - 11 × 2" Hex Bolt GR5	4
5/8" Split Lock Washer	6
5/8" - 11 Hex Nut	6
5/8" - 11 × 4" Hex Bolt GR5	2
3/8 - 16 × 1" Hex Head Bolt Plated	4
3/8" Split Lock Washer	4
3/8" Grd.5 Hex Nut	4
1/4" - 20 × 3/4" Hex Bolt	4
1/4" Flat Washer	4

TORQUE SPECIFICATIONS

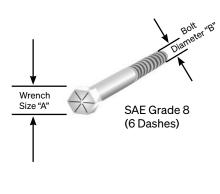
AMERICANBolt Head Markings





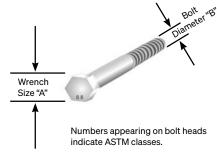
WRENCH SIZE(IN.)"A"	BOLT DIAMETER (IN.)"B" AND THREAD SIZE	SAE GRADE 2	SAE GRADE 5	SAE GRADE 8
7/16	1/4 -20 UNC	6 (7)	8 (11)	12 (16)
7/16	1/4 - 24 UNF	6 (8)	10 (13)	14 (18)
1/2	5/16 -18 UNC	11 (15)	17 (23)	25 (33)
1/2	5/16 - 24 UNF	13 (17)	19 (26)	27 (37)
9/16	3/8 - 16 UNC	20 (27)	31 (42)	44 (60)
9/16	3/8 -24 UNF	23 (31)	35 (47)	49 (66)
5/8	7/16 -14 UNC	32 (43)	49 (66)	70 (95)
5/8	7/16 - 20 UNF	36 (49)	55 (75)	78 (106)
3/4	1/2 - 13 UNC	49 (66)	76 (103)	106 (144)
3/4	1/2 - 20 UNF	55 (75)	85 (115)	120 (163)
7/8	9/16 -12 UNC	70 (95)	109 (148)	153 (207)
7/8	9/16 - 18 UNF	79 (107)	122 (165)	172 (233)
15/16	5/8 - 11 UNC	97 (131)	150 (203)	212 (287)
15/16	5/8 - 18 UNF	110 (149)	170 (230)	240 (325)
1-1/8	3/4 - 10 UNC	144(195)	266 (360)	376 (509)
1-1/8	3/4 - 16 UNF	192 (260)	297 (406)	420 (569)
1-5/16	7/8 - 9 UNC	166 (225)	430 (583)	606 (821)
1-5/16	7/8 - 14 UNF	184 (249)	474 (642)	668 (905)
1-1/2	1-8 UNC	250 (339)	644 (873)	909 (1232)
1-1/2	1 - 12 UNF	274 (371)	705 (955)	995 (1348)
1-1/2	1-14 UNF	280 (379)	721 (977)	1019 (1381)
1-11/16	1-1/8 - 7 UNC	354 (480)	795 (1077)	1288 (1745)
1-11/16	1-1/8 -12 UNF	397 (538)	890 (1206)	1444 (1957)
1-7/8	1-1/4 - 7 UNC	500 (678)	1120 (1518)	1817 (2462)
1-7/8	1-1/4 - 12 UNF	553 (749)	1241 (1682)	2013 (2728)
2-1/16	1-3/8 - 6 UNC	655 (887)	1470 (1992)	2382 (3228)
2-1/16	1-3/8 -12 UNF	746 (1011)	1672 (2266)	2712 (3675)
2-1/4 2-1/4	1-1/2 - 6 UNC 1-1/2 - 12 UNF	870 (1179) 979 (1327)	1950 (2642) 2194 (2973)	3161 (4283) 3557 (4820)





METRIC

Proper torque for metric fasteners used on manufacturer implement. Recommended Torque in Foot Pounds (Newton Meters).*



*Use 75% of the specified torque value for
plated fasteners. Use 85% of the specified
torque values for lubricated fasteners.

WRENCH SIZE (mm) "A"	BOLT DIA. (mm) "B"	ASTM 4.6	ASTM 8.8	ASTM 9.8	ASTM 10.9
8	5	1.8 (2.4)		5.1 (6.9)	6.5 (8.8)
10	6	3 (4)		8.7 (12)	11.1 (15)
13	8	7.3 (10)		21.1 (29)	27 (37)
16	10	14.5 (20)		42 (57)	53 (72)
18	12	25 (34)	74 (100)	73 (99)	93 (126)
21	14	40 (54)	118 (160)	116 (157)	148 (201)
24	16	62 (84)	167 (226)	181 (245)	230 (312)
30	20	122 (165)	325 (440)		449 (608)
33	22		443 (600)		611 (828)
36	24	211 (286)	563 (763)		778 (1054)
31	27		821 (1112)		138(1542)
46	30	418 (566)	1119 (1516)		1547(2096)

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Cannot attach PTO shaft to the tractor	PTO shaft is too long, PTO yoke attachment pin is seized.	Cut PTO shaft per OM instructions, lubricate attachment pin.
Tillage depth insufficient	Tractor is holding tiller up, Tractor has insufficient power, skid shoes preventing lowering, tines are worn, ground is too hard.	Adjust lift arm settings on tractor, increase tractor PTO speed, adjust tiller skidshoes, replace tines, make multiple passes.
Soil is not tilled fine enough	Ground speed too fast, PTO speed too slow, tines assembled incorrectly.	Slow tractor ground speed, Increase tractor PTO speed, check tine assembly.
Driveline vibrates	Universal joint is worn, debris wrapped around tine bar, driveline is at extreme angle.	Replace universal joint/cross bearing, remove debris, lower tiller and adjust tractor lift stop.
Constant abnormal gearbox noise	Low oil level, worn gears, gearbox bearings.	Check oil level, replace gears/ gearbox, replace bearings.
Tiller makes intermittent/ abnormal noise	Tines are loose, gearbox has damaged tooth, debris is wrapped around tine bar.	Tighten tines, replace damaged gear, clear debris.
Gearbox is overheating	Oil level is low, gearbox needs service, ventplug is seized, tiller load is too great.	Check oil level, replace old oil, replace ventplug, reduce ground speed/tilling depth.
Oil Leaking from gearbox	Seals and or gaskets are damaged, gearbox is overfilled with oil.	Replace seals or gaskets, drain oil to correct level.
Rotor will not turn	Tractor PTO is not engaged, gear drive has damage, friction clutch not adjusted properly.	Engage tractor PTO, inspect and repair gears, reduce tiller load or adjust clutch.
Tiller shaking	Ground is compacted and or dry, debris entangled in tines	Make multiple passes with shorter tilling depth, irrigate soil, clear debris.
Rear tailgate impacts tines	Tailgate adjustment chain in wrong position.	Adjust tailgate adjustment chain to hold tailgate higher.

MANUFACTURER'S LIMITED WARRANTY

Tarter Farm and Ranch Equipment warrants to the original purchaser that the purchased product is free from defects in material and workmanship for a period of one (1) year commencing on the date of original purchase, as evidenced by the original receipt, and will, at its option, repair, replace or issue credit for any product or part found to be defective.

This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial or industrial use, neglect, improper maintenance, alteration, or accident or which has been used for a purpose for which the product was not designed. Damage resulting from the installation or use of any part, accessory, or attachment not approved by Tarter Farm and Ranch Equipment, for use with the product covered by the Operator's Manual, shall void the warranty as to any resulting damage.

This limited warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this warranty does not transfer to the third party in any manner.

HOW TO MAKE A CLAIM:

To obtain warranty service through a local authorized retailer, a customer must present the following within thirty (30) days of implement failure:

- 1. Proof of purchase within one (1) year of purchase date.
- 2. Photographs of or return of the actual product in question.
- 3. Photograph of UPC label.

After receipt of the above information, if the product is alleged to be defective, Tarter Farm and Ranch Equipment will process the claim and issue a Return Manufacturers Authorization number (RMA). Once an RMA number is issued, Tarter Farm and Ranch Equipment will pick up the product from the authorized retailer and return to its facility for inspection. Tarter Farm and Ranch Equipment will replace, repair, or issue credit for any product after examination which is determined to be defective due to defects in material and workmanship.

For additional Warranty questions, please call 1-800-RED-GATE or email warranty@tarterusa.com for assistance.

WARRANTY DISCLAIMER:

This limited warranty is in lieu of, and Tarter Farm and Ranch Equipment disclaims and excludes any express and implied warranties with respect to the product including, without limitation, merchantability, and fitness for a particular purpose. No other express warranty, whether written or oral, given by any person or entity, including a retailer, with respect to any product, shall bind Tarter Farm and Ranch Equipment.

Tarter Farm and Ranch Equipment's exclusive liability for breach of the limited warranty, as set forth above, on the product shall be to repair or replace the implement within the warranty period in accordance with the terms of this limited warranty. The choice of remedy shall belong solely to Tarter Farm and Ranch Equipment. In no event shall Tarter Farm and Ranch Equipment be liable for any loss or damages of any other kind, whether direct, incidental, consequential including lost profits, exemplary, special, or otherwise, including without limitation, expenses incurred for substitute or replacement implement or for rental expenses to temporarily replace a warranted product.

Under no circumstance shall recovery, of any kind, be greater than the amount of the purchase price of the product purchased. Customer assumes all risk and liability for loss, damage, or injury to customer or customer's property and/ or the property of others arising out of the misuse or inability to use the product.

LEGAL RIGHTS

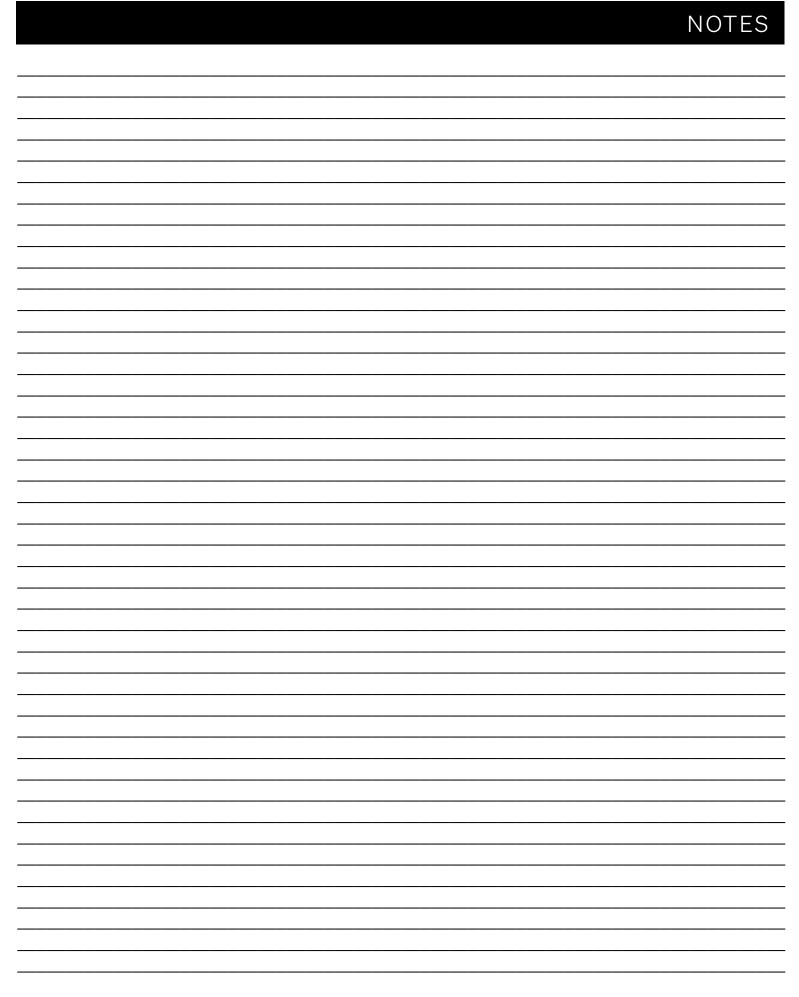
This limited warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. Some states do not allow any limitation on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

KEEP FOR YOUR RECORDS

Record the model number, serial number, and the date of purchase with the original sales receipt. This information will be helpful to the retailer if parts or service are required.

Model Number	
Serial Number	
Date of Purchase	
Retailer_	

NOTES	





P.O. BOX 10 10739 S. HWY 127 DUNNVILLE, KY 42528 1-800-REDGATE | TARTERUSA.COM

4000047 REV3 120621