

TURF
TEQ

**OPERATOR'S
MANUAL**



**MODEL 1305BC
BRUSH CUTTER**

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Honey Brook, PA 19344 U.S.A.

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DISCLAIMER: THE INFORMATION IN THIS MANUAL IS PROVIDED TO PROMOTE THE SAFE USE OF, AND ASSIST THE OPERATOR IN ACHIEVING MAXIMUM PERFORMANCE FROM THE MODEL 1305 BRUSH CUTTER AS DESCRIBED IN THIS MANUAL.

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INTRODUCTION

This manual is provided as a guide to help you safely operate the product and to achieve the maximum performance from your Brush Cutter.

Before operating the Brush Cutter, thoroughly read the entire manual. It is important that you, the operator, thoroughly understand how to operate the machine and adhere to all safety and operating procedures. Special attention should be paid to all Safety Precautions which are detailed in this manual.

Instructions were written from the perspective that the operator is standing behind the machine grasping the handlebars and facing the forward direction of travel.

Some pictures in this manual may show optional equipment installed or may not depict current production.

Please contact Turf Teq, LLC directly if, after reading the manual, you have questions about the safe operation of this machine.

Congratulations!

Thank you and congratulations on your purchase of a new Turf Teq Brush Cutter!

We are confident that your Brush Cutter will be one of the most gratifying pieces of equipment you will ever own. As a result of your investment in the Brush Cutter, you will eliminate the need for manual back-breaking work and you will see an increase in productivity.

Your happiness is our goal, so please let us know of any questions or issues you may have so that we may answer them or address them as quickly as possible. (Please have your serial number available when you call us). We would also like to hear from you on how much you enjoy your new Brush Cutter!

Turf Teq, LLC Toll Free (866) 503-TURF

Total Customer Satisfaction is our Goal

The Brush Cutter is designed to provide trouble-free operation. To ensure that you are satisfied with your Brush Cutter, we offer the following Guarantee of Satisfaction:

- The Brush Cutter is **GUARANTEED TO THE ORIGINAL PURCHASER FOR ONE FULL YEAR** against defects in materials and workmanship. If you feel that a part is defective, contact us and we replace the defective part and provide repair instructions as required.
- The engine is guaranteed by the engine manufacturer:
Honda Engine: Two years in consumer use; two years in commercial use
- If you have questions or are not 100% satisfied with your Brush Cutter within the first 30 days of use, call us toll free at **1-866-503-TURF** and we will work to answer your questions and to resolve your concerns.

Please have the following information from your packing slip and from the Brush Cutter available when contacting our customer service department:

Name of Purchaser _____

Tractor _____

Model _____

Serial Number _____

Date Purchased _____

Sales Order Number _____

Brush Cutter _____

Model _____

Serial Number _____

Date Purchased _____

Sales Order Number _____

Turf Teq, LLC

WARRANTY AND LIMITATION OF LIABILITY

(Customer Copy - Page 1)

COVERAGE PROVIDED

Turf Teq, LLC, hereinafter called "Turf Teq" warrants to the original retail purchaser of each new Turf Teq Product that Turf Teq will replace any part thereof found to be defective in materials or workmanship within the time periods identified below.

DEFINITION

"Products" are machines, attachments, and Replacement Parts therefore supplied by Turf Teq.

WARRANTY PERIOD

12 months from the date of first retail purchase.

Replacement Parts are warranted for 60 days or to the end of the Warranty Period, whichever is longer.

LIMITATIONS, INCLUDING DISCLAIMER OF IMPLIED WARRANTIES AND CONSEQUENTIAL DAMAGES

This warranty gives you specific legal rights and you may also have other rights that vary depending on state or provincial laws.

Turf Teq does not authorize any person or Dealer to create for it any other obligation or liability in connection with these Products. **TO THE EXTENT ALLOWED BY LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS APPLICABLE TO THIS PRODUCT IS LIMITED TO THE STATED DURATION OF THIS WRITTEN WARRANTY. TURF TEQ IS NOT LIABLE FOR LOSS OF THE USE OF THE PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR CONSEQUENTIAL DAMAGES.**

Some states and provinces do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

The remedy of repair or replacement of a defective part during the warranty period herein specified shall be the purchaser's exclusive remedy.

RIGHT TO MAKE DESIGN CHANGES

Turf Teq reserves the right to make changes in the design and other changes in its Products at any time and from time to time without notice and without incurring any obligation with respect to any product previously ordered from it, sold or shipped by it.

Turf Teq, LLC

WARRANTY AND LIMITATION OF LIABILITY

(Customer Copy - Page 2)

The warranty period will begin on the date of first retail sale.

The obligation of Turf Teq to purchase under this warranty is limited to the repair or replacement of defective parts free of charge using genuine Turf Teq Replacement Parts. Repair or replacement in accordance with this warranty shall constitute fulfillment of all liabilities of Turf Teq in respect to such Products.

Your dealer shall review these warranty provisions with the purchaser prior to retail sale, secure his acknowledgement of delivery of this warranty and record the date of first retail sale.

WHAT IS NOT COVERED BY THE WARRANTY?

This warranty shall **NOT** apply under the following conditions:

1. With respect to vendor warranty items such as engines, which shall be warranted by their manufacturer, or local representative
 - a. **Honda Engines** have a **2 YEAR WARRANTY** that is covered by American Honda Motor Corporation.
2. If the Product has been subject to misapplication, abuse, misuse, improper maintenance or other negligence, fire or other accident.
3. If parts or attachments other than those made or marketed by Turf Teq have been used in connection with the Product, and in the sole judgment of Turf Teq such use affects its performance, stability or reliability.
4. If the Product has been altered or repaired in a manner which, in the sole judgment of Turf Teq, affects its performance, stability or reliability.
5. Turf Teq shall have no liability for used equipment sold beyond the specified coverage period.
6. No warranty shall apply to damage resulting from accident or damage caused by environment (such as exposure to corrosive material). Turf Teq shall not be responsible for any costs relating to rental equipment used to replace the Product being repaired.
7. The warranty shall **NOT** apply to normal maintenance services, to normal replacement of service items, or to normal deterioration due to use or exposure. Turf Teq shall not be responsible for normal replacement parts such as belts, chains, clutches, filters, oil, brushes, or other parts that are worn out, unless they are determined by Turf Teq to be defective in material or workmanship.

Customer Signature _____

Date of Purchase _____

Date of Signature _____

Tractor Model Number _____

Tractor Serial Number _____

Brush Cutter Model Number _____

Brush Cutter Serial Number _____

Turf Teq, LLC

WARRANTY AND LIMITATION OF LIABILITY

(Turf Teq Warranty Registration Copy - Page 1)

Important: This copy must be completed, signed and returned to Turf Teq to register the product and activate the warranty.

COVERAGE PROVIDED

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Turf Teq, LLC

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2. If the Product has been subject to misapplication, abuse, misuse, improper maintenance or other negligence, fire or other accident.
3. If parts or attachments other than those made or marketed by Turf Teq have been used in connection with the Product, and in the sole judgment of Turf Teq such use affects its performance, stability or reliability.
4. If the Product has been altered or repaired in a manner which, in the sole judgment of Turf Teq, affects its performance, stability or reliability.
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Customer Signature _____

Date of Purchase _____

Date of Signature _____

Tractor Model Number _____ Brush Cutter Model Number _____

Tractor Serial Number _____ Brush Cutter Serial Number _____

Important: This copy must be completed, signed and returned to Turf Teq within 30 days of purchase to register the product and activate the warranty.

**RETURN TO: Turf Teq, LLC
699 Todd Road
Honey Brook, PA 19344**

SAFETY INFORMATION

PERSONAL SAFETY

SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read and take the following precautions before operating the machine. Equipment should be operated only by those who are properly trained.

GENERAL INFORMATION

1. Read the Operator's Manual carefully before using the machine.
2. Only allow properly trained and qualified persons to operate the machine.
3. Keep safety decals clean.
4. Install shields before starting or operating the machine.
5. Make sure all shields are in place at all times.
6. Do not operate the Brush Cutter over cables, wires, pipes or other objects.
7. Keep people at least 75 feet away from the Brush Cutter when it is in operation.

PERSONAL PREPARATION AND ATTIRE

1. Wear safety glasses while operating the machine to protect your eyes.
2. Wear safety shoes with non-slip treads. Do not go barefoot or wearing open-toed shoes while operating the machine.
3. Wear long pants
4. Use ear muffs or ear plugs to protect your hearing.
5. Wear gloves.

MACHINE SAFETY

MACHINE PREPARATION

1. Read the Operator's manual for the machine and engine before operating the machine.
2. Become familiar with the controls BEFORE starting to operate the machine.
3. Inspect the area you will be working in for hidden objects such as large rocks, wires and other obstructions. Operating the machine over obstacles could damage the machine, cause property damage or cause personal injury.
4. Wait for the engine to cool before refueling.
5. Fill the gasoline tank with the engine turned off and the machine outdoors.
6. Do not smoke while handling gasoline.
7. Keep any type of open flame away from the machine.
8. Make sure all shields are installed and secured.
9. Remove the spark plug wire from the spark plug before doing any work on the Brush Cutter.
10. Allow the engine and muffler to cool before working around the engine.

OPERATING THE MACHINE SAFELY

1. Shut off the engine, place the transmission control lever in the transmission engaged position when the machine is not in use. Engage the optional park brake if equipped.
2. Do not operate the machine engine in an enclosed building without adequate ventilation.
3. Make sure all shields are in place before starting the machine.
4. Do not leave the attachment in the raised position when the machine is parked.
5. Only allow properly trained personnel to operate the machine
6. Keep bystanders at least 75 feet away from the machine. The Brush Cutter can throw objects at great speed and strike a bystander. Do not operate the machine when children or pets are in the area.
7. Disengage the main drive and stop the engine when a person or pet approaches the machine closer than 75 feet.
8. Be sure the main drive and the hydrostatic control are disengaged before starting the engine.
9. NEVER operate the machine without all the shields installed.
10. NEVER reach under the shields when the engine is running.
11. ALWAYS shut off the engine and disconnect the spark plug wire before making any adjustments to the machine.
12. ALWAYS shut off the engine and disconnect the spark plug wire before cleaning the machine.
13. Operate the machine during daylight hours.
14. Lower the attachment to the ground when the machine is turned off.
15. Keep the machine clean and do not allow combustible materials to accumulate on the machine.
16. Operate slowly on slopes and uneven terrain
17. DO NOT weld, cut, bend or otherwise modify your Turf Teq machine including any shielding. Altering or modifying your machine will void the warranty and may make the machine unsafe.
18. Make sure you operate at a speed where you have 100% control of the machine at all times.
19. Do not backup unless there is adequate clear space to safely maneuver.
20. Engage the attachment drive before lowering the attachment to the ground and starting forward motion.
21. Keep feet and hands away from rotating components.

SERVICING THE MACHINE SAFELY

1. Stop the engine before performing any service on the machine.
2. Remove the spark plug wire when working on the machine.
3. Wait for the engine and muffler to cool before working around the engine area.
4. Wear thick gloves when checking, changing, sharpening or tightening the blade.

INTENDED USE

The Brush Cutter is a machine designed for cutting down large weeds, brush tall grass, saplings up to 1-1/2 inch thick and other types of growth down to a height of 3-3/4 inches. Growth of 6 inches or less can be cut to 2-3/4 inches.

This machine is not a lawn mower and will not provide the quality of cut achieved with a lawn mower.

The Brush Cutter should not be used in tight confined spaces. It should be operated in rural settings or large acreages.



WARNING: To prevent personal injury, make certain all tractor and Brush Cutter safety shields are in place and secure before operating.

SURVEY THE AREA

Take a few minutes to walk around the job site. These few minutes are time well-spent because you can:

1. **Look for obstructions.** Walk around the job site to spot items that can damage your machine. Remove or avoid rocks, roots, steel strapping, rope, wire, plastic wrapping, or anything that may hinder or damage your machine. Remove these items before you start operating.



PERSONAL SAFETY DECALS

This manual shows machine decals with safety messages on, “WARNING,” and “DANGER.” These safety messages are intended for your personal safety and those working with you. Please read the safety messages and the specific information they contain.



WARNING: THE WORD “WARNING” IS USED WHERE THERE IS A POTENTIAL OR HIDDEN HAZARD WHICH HAS THE POSSIBILITY FOR SERIOUS INJURY OR DEATH IF YOU DO NOT FOLLOW THE OPERATING INSTRUCTIONS FOR YOUR MACHINE. IT IS USED TO WARN OPERATORS AND OTHERS TO EXERCISE EVERY APPROPRIATE MEANS TO AVOID A SURPRISE INVOLVEMENT WITH MACHINERY.



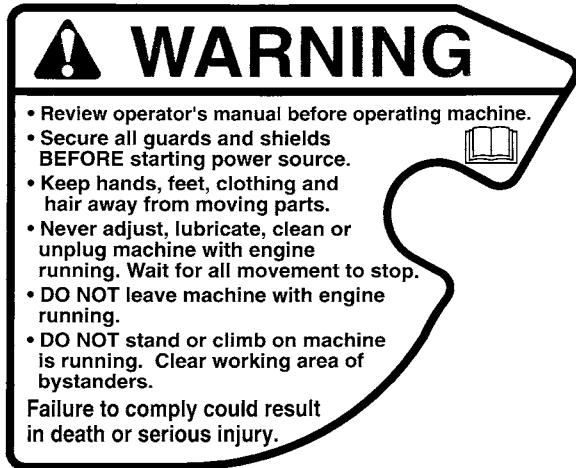
DANGER: THE WORD “DANGER” IS USED WHERE YOU ARE AT RISK OF BEING KILLED OR SERIOUSLY INJURED IF YOU DO NOT FOLLOW THE OPERATING INSTRUCTIONS IN CONNECTION WITH A SERIOUS HAZARD.

FAILURE TO FOLLOW THE “WARNING” AND “DANGER INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.

SAFETY DECAL INFORMATION

The following safety decals were installed on the machine in the areas indicated. They are on the machine for your safety.

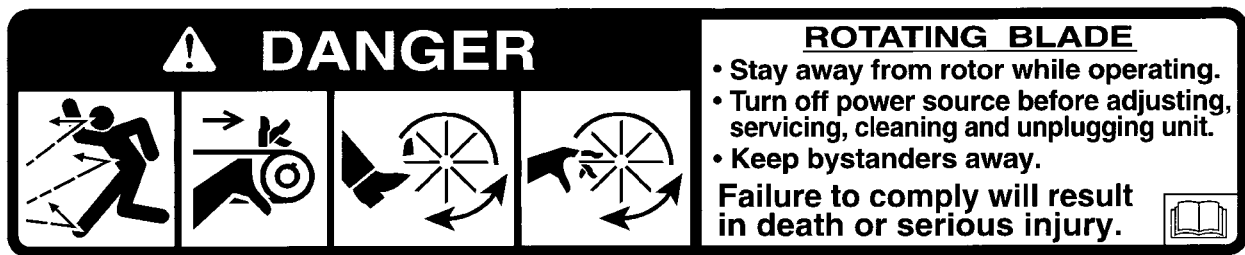
Keep the decals clean and legible at all times.



Located on the control console.



Located on the cutting deck.



Located on the cutting deck.

SERIAL NUMBER LOCATIONS

TRACTOR SERIAL/MODEL NUMBER LOCATION

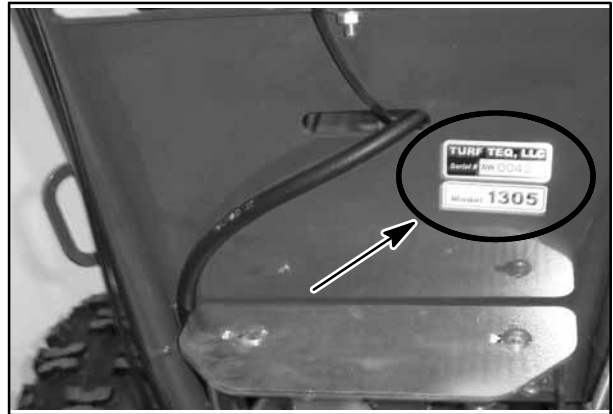
The serial and model numbers are located below the control panel as shown.

The serial and model numbers will be required when ordering parts.

For easy reference, enter Model and serial number on the lines:

Model _____

Serial Number _____



1

ENGINE SERIAL NUMBER LOCATION

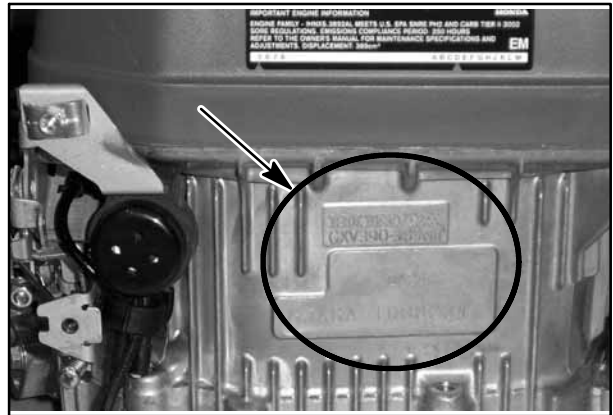
The Honda engine serial number is located on the backside of the engine as shown.

The serial number will be required when ordering parts.

For easy reference, enter the engine manufacturer and the serial number on these line:

Manufacturer _____

Serial Number _____



2

BRUSH CUTTER SERIAL NUMBER LOCATION

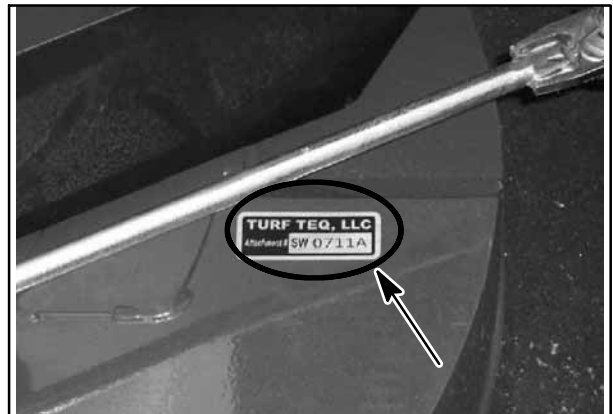
The serial number is located on the left side of the attachment as shown.

The serial number will be required when ordering parts.

For easy reference, enter Model and serial number on the lines:

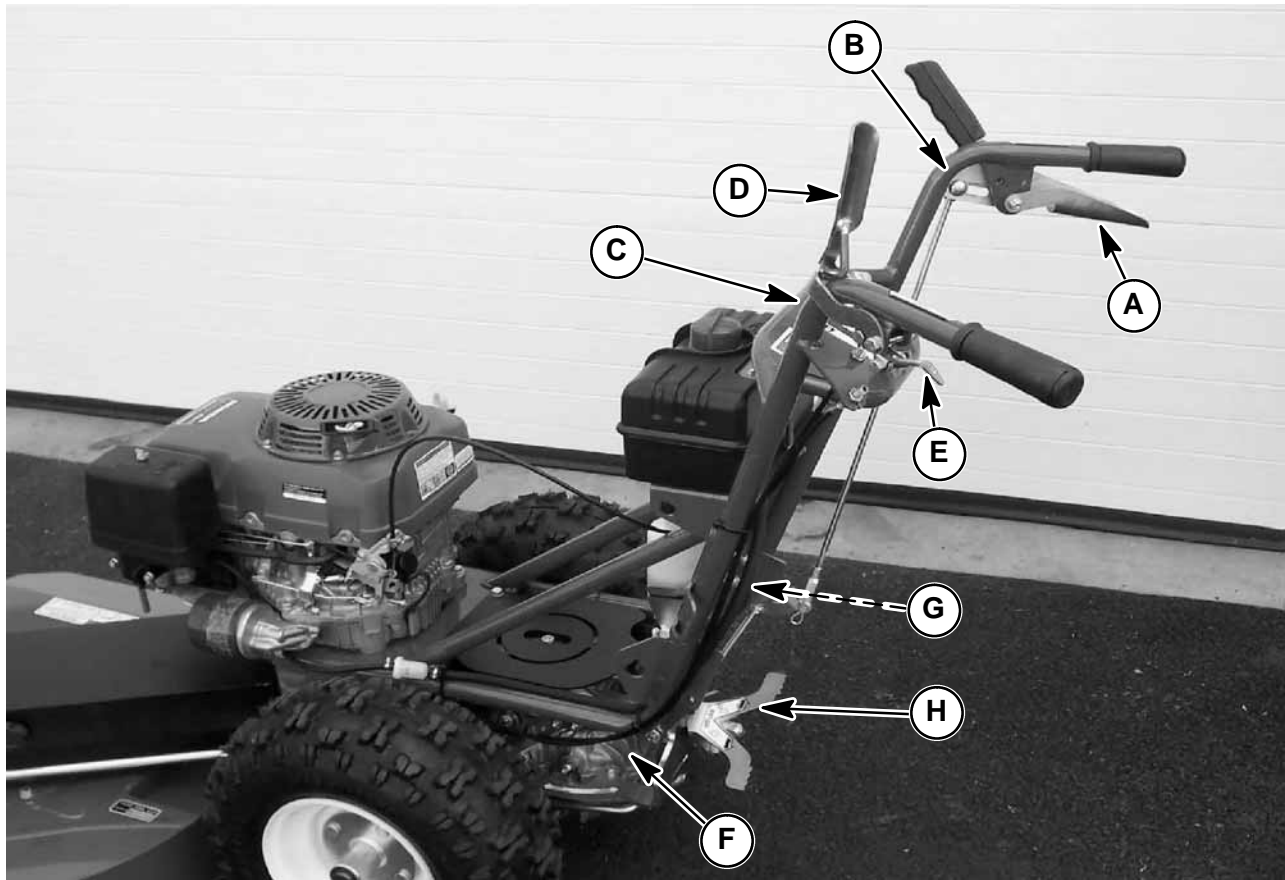
Manufacturer _____

Serial Number _____



3

CONTROL LOCATIONS - OVERVIEW



- A. Hydrostatic transmission control lever
- B. Adjustable speed control
- C. Throttle control
- D. Attachment drive engage/disengage with brake control lever

- E. Swing control lever
- F. Transmission engage/disengage (tow valve) control lever
- G. Park brake lever (Optional)
- H. Differential lock control lever

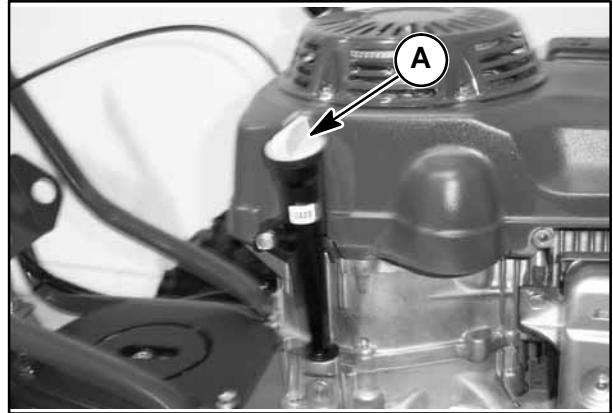
DAILY CHECKS TO PERFORM BEFORE STARTING THE ENGINE

NOTE: Perform all checks with the machine on a flat, level and hard surface

CHECK ENGINE OIL LEVEL

1. Remove the oil dipstick, A.
2. Check the oil level as indicated in the engine owner's manual and fill with the recommended motor oil.

NOTE: OVERFILLING THE ENGINE OIL WILL CAUSE LOSS OF POWER.



4

CHECK FUEL LEVEL

1. Remove the fuel tank cap, A.
2. Fill tank to the bottom of the fuel tank neck.
3. Use minimum of 86 octane gasoline.
4. Wipe any spilled fuel before starting the engine.

DO NOT OVERFILL THE FUEL TANK. OBSERVE ALL SAFETY STATEMENTS LISTED IN THE SAFETY INFORMATION SECTION

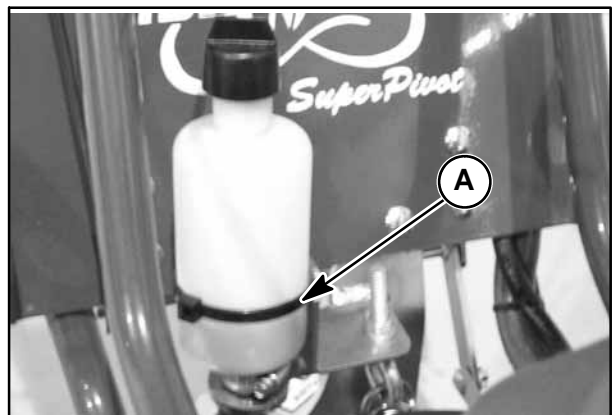


5

TRANSMISSION OIL LEVEL

1. Check that the oil level is to the full line, A, on the reservoir bottle.
2. Add 10W30 API motor oil as described in the "Service" section to the level of the black tie strap.

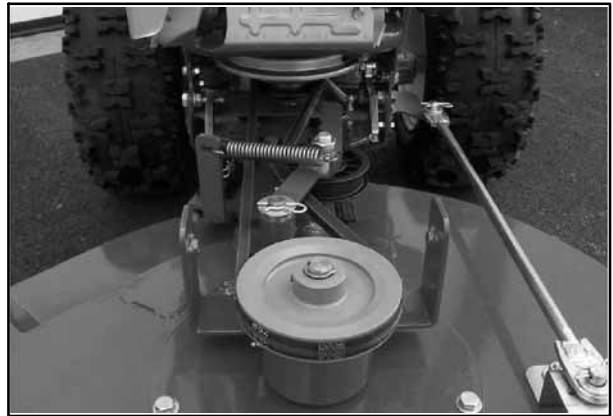
DO NOT OVERFILL.



6

MAIN DRIVE BELT CONDITION

1. Remove the belt cover.
2. Inspect the belt for cuts, excessive wear or damage.
3. Replace belt as required.
4. Replace the belt cover.

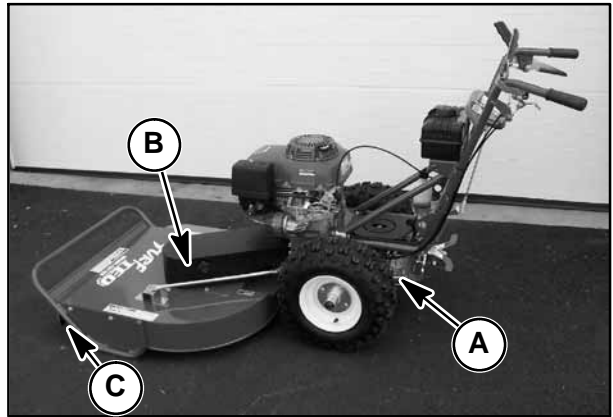


7

CHECK THAT ALL SHIELDS ARE IN PLACE AND HARDWARE IS TIGHT

1. Check the hydrostatic drive belt shield, A.
2. Check the main drive belt shield, B.
3. Front deflector, C.

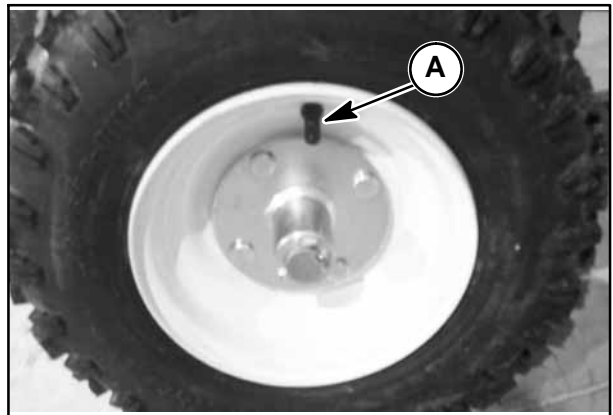
NOTE: DO NOT OPERATE THE MACHINE WITH LOOSE OR MISSING SHIELDS. REPLACE MISSING SHIELDS IMMEDIATELY.



8

CHECK TIRE PRESSURES

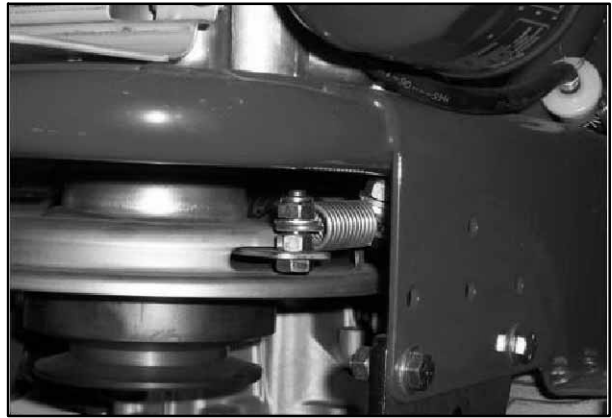
Check tire pressures in the two rear tires and inflate to 14 psi. The tires may have liquid in them so when checking the tire pressure, the valve stem, A, should be located at the top as shown or liquid will escape.



9

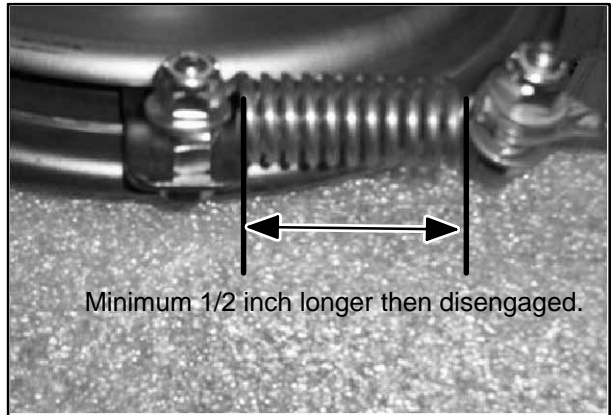
CHECK CLUTCH CABLE ADJUSTMENT

1. Measure the length of the spring in the disengaged position.
2. Engage the attachment drive clutch.
3. Measure the length of the spring with the clutch engaged.



10

4. The spring must be 1/2 inch longer in the engaged position than in the disengaged position.
5. Refer to the "Clutch Cable Adjustment" section for details.



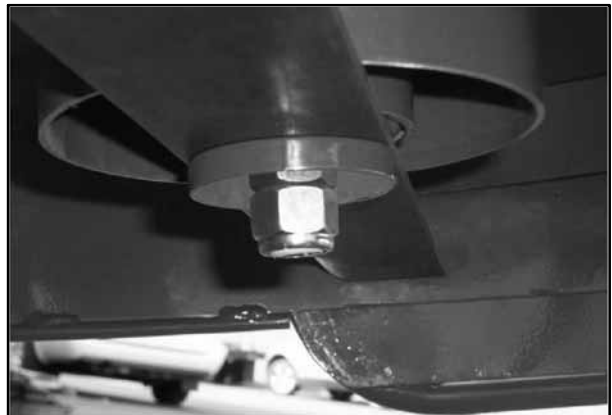
11

CHECK BLADE SHARPNESS

NOTE: WEAR HEAVY GLOVES WHEN WORKING AROUND THE BLADE.

1. Check the condition of the blade for any damage.
2. Check the cutting edge for sharpness.
3. Replace or sharpen the blade as required.

Refer to "Replacing the Blade" Section for details.



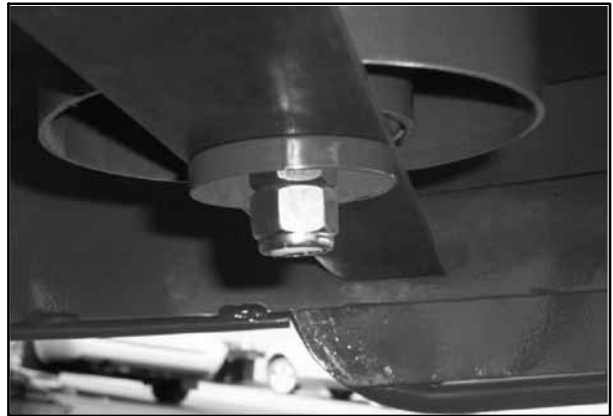
12

CHECK BLADE NUT TORQUE

NOTE: WEAR HEAVY GLOVES WHEN WORKING AROUND THE BLADE.

1. Check that blade nut torque is 90 lbs/ft.

Refer to “Blade Installation” Section for details and torque procedure.



13

GREASE MACHINE PIVOTS

1. Grease Brush Cutter pivot points daily before use.
2. Lubricate control cables daily before use.

Refer to the “Lubrication” Section for details.



14

GENERAL CONTROLS

PARK BRAKE (OPTIONAL EQUIPMENT)

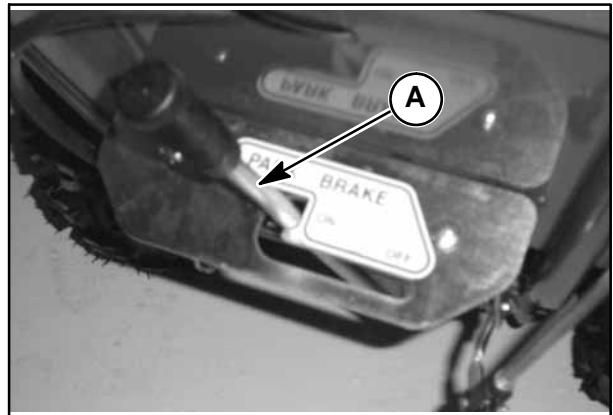
NOTE: The Park Brake is an option and will not be on every machine

When the Park Brake is engaged, the machine will keep the machine from moving when the engine is not running. When the Park Brake is disengaged, the machine can be moved.

NOTE: The Park Brake must be disengaged before moving the machine or the Park Brake and transmission may be damaged.

Park Brake Engaged

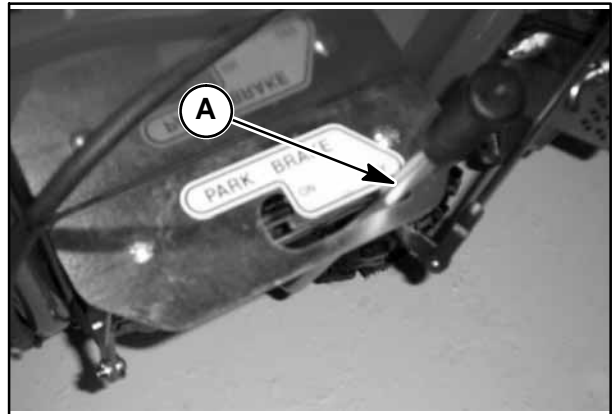
1. To engage, place the Park Brake lever, A, to the ON position. In this position the Park Brake will keep the machine from moving when the engine is not running.



15

Park Brake Disengaged

1. To disengage, place Park Brake lever, A, to the OFF position. In this position the Park Brake is disengaged and the machine can be moved.



16

TRANSMISSION CONTROL LEVER (TOW VALVE)

The TRANSMISSION CONTROL LEVER engages and disengages the transmission drive to the engine. This feature makes it easy to position the machine when the engine is not running.

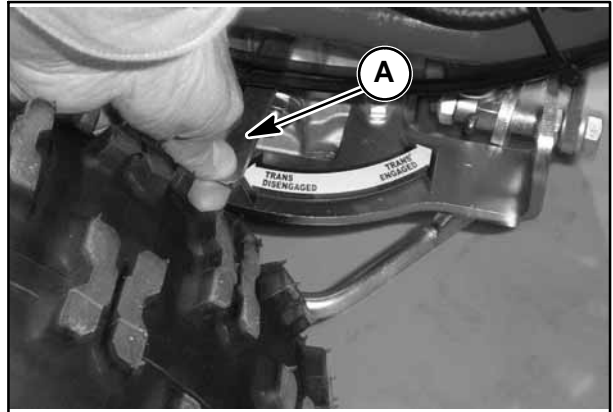
NOTE: The Transmission control lever must be in the engaged position for the machine to move using engine power.

Transmission Disengaged

When LEVER, A, is position forward as shown, the machine can be pushed or pulled without the engine running.

NOTE: In the Transmission Disengaged position, the transmission will not propel the machine in forward or reverse when the engine is running and the hydrostatic control lever is activated.

NOTE: Lever must be pushed to the detent position at the end of the lever's travel.



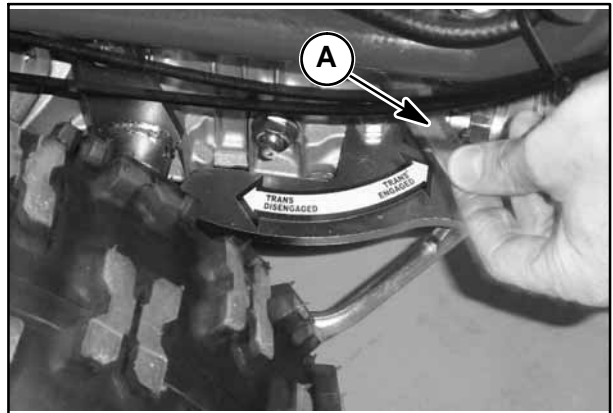
17

Transmission Engaged

When LEVER, A, is position rearward as shown, the machine will be very hard to push or pull when the engine is not running.

NOTE: In the Transmission Engaged position, the transmission will propel the machine forward or reverse when the engine is running and the hydrostatic control lever is activated.

NOTE: Lever must be pushed to the detent position at the end of the lever's travel.



18

DIFFERENTIAL CONTROL

The differential control lever is used to position the differential in either a unlocked or locked position.

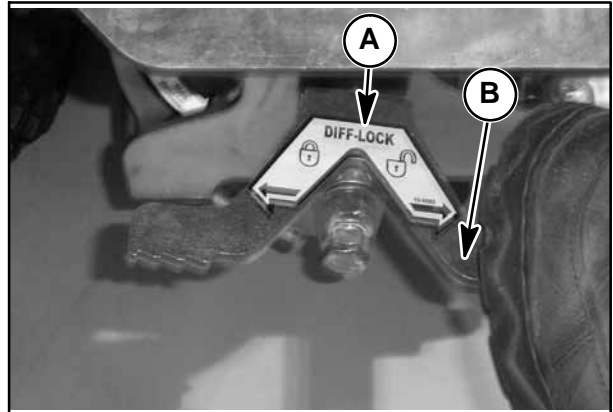
The machine should be operated in the Unlocked position until one tire starts to spin, then stop machine travel by placing the hydrostatic level in the neutral position. Place the Differential Lock in the Locked Position then resume machine travel.

NOTE: Only change the position of the Differential Lock when machine travel is stopped.

Unlocked Position

In the Unlocked position, the wheels may drive at different speeds depending on the traction available at each wheel. This position may provide reduced traction in certain ground conditions but will require the least effort to steer the machine.

1. Place the foot control, A, in the unlocked position by pushing down on the right side of the pedal, B, until the pedal locks in place.

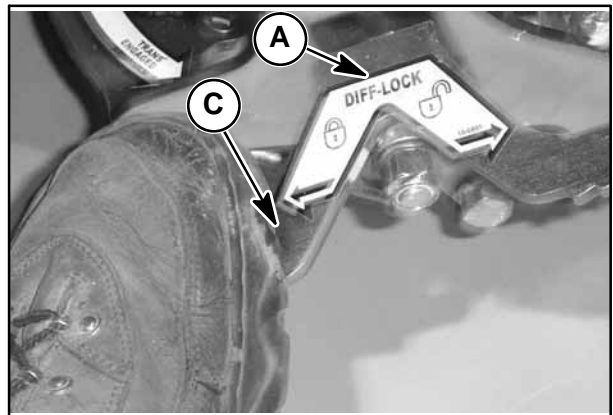


19

Locked Position

In the Locked position, both wheels will continuously drive at the same speed regardless of the available traction at each wheel. This position provides maximum traction but will increase the effort needed to steer the machine.

1. Place the foot control, A, in the locked position by pushing down on the left side of the pedal, C, until the pedal locks in place.



20

BRUSH CUTTER SWING CONTROL

Positioning The Brush Cutter Angle

POSITION THE BRUSH CUTTER ATTACHMENT STRAIGHT FORWARD FOR TRANSPORTING.

NOTE: Only change the Brush Cutter angle when the machine is on a level surface.

NOTE: Left and right are determined by standing behind the machine facing the direction of travel.

The Brush Cutter can be positioned as follows:

1. Straight ahead



21

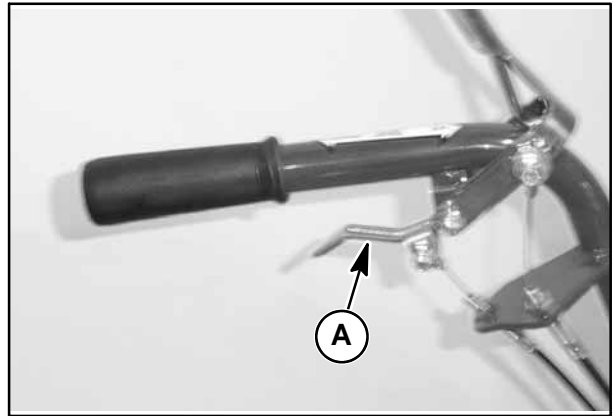
2. Pivoted to the Left



22

Brush Cutter Swing Control Lever

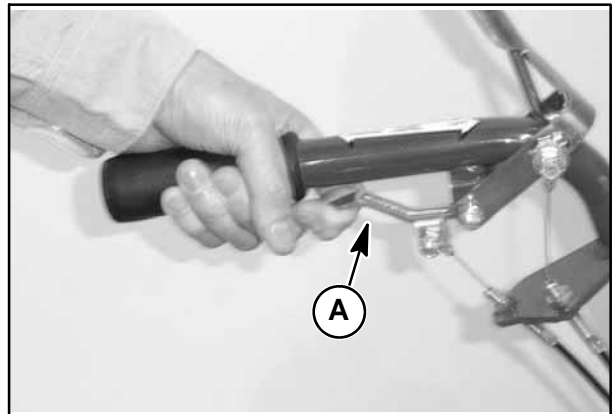
The swing control lever is shown at A.



23

Adjusting Brush Cutter Angle

1. Lift up and hold the SWING CONTROL LEVER, A.



24

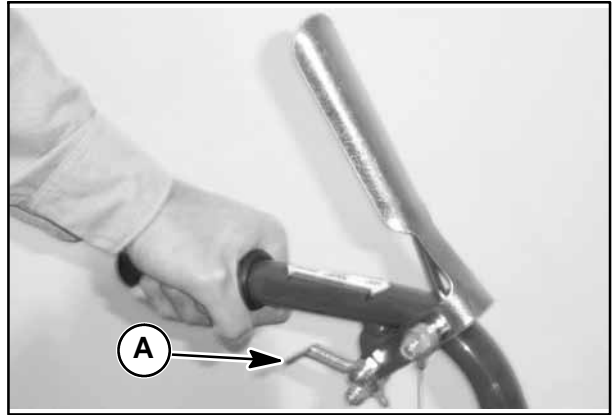
2. Push forward on the left handlebar and at the same time, pull rearward on the right handlebar until the desired angle is achieved.

NOTE: Only change Brush Cutter position when the machine is on a level surface.



25

-
3. Release the SWING CONTROL LEVER, A, and it will lock the Brush Cutter in the desired position.



26

PARKING THE MACHINE

When parking the tractor, use the following procedure.

1. Stop the engine by placing the throttle control to the **STOP** position.



27

2. If equipped with the OPTIONAL PARK BRAKE, put the brake to the ON position.



28

3. Park the machine on a level area with the deck flat on the ground as shown.



29

ENGINE OPERATION

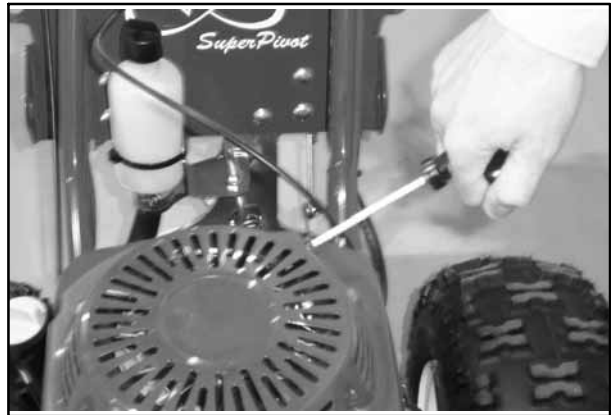
STARTING A COLD ENGINE

1. Place the throttle control to the **CHOKE** position.



30

2. Pull the starter rope slowly and with low force until the slack is out of the rope and resistance is felt.
3. When resistance is felt, pull the rope with enough force to turn the engine fast enough to start the engine. Return the pull rope gently to the retracted position.



31

4. When the engine starts, position the throttle to the **RUN** position for 30 seconds to allow the engine to warm up.



32

5. After the engine has warmed up, slowly place the throttle to the **IDLE** position.



33

6. Move the throttle to the **RUN** position when operating the machine.



34

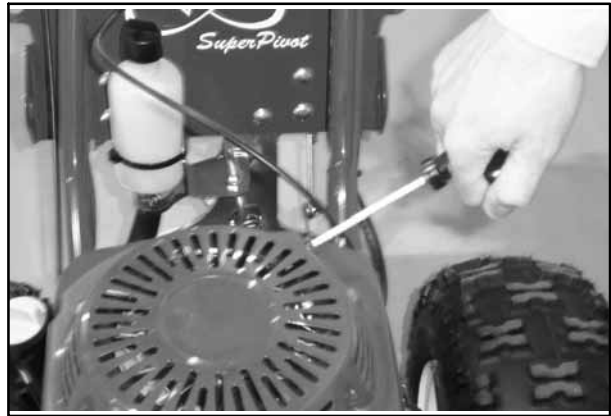
STARTING A WARM ENGINE

1. Place the throttle control slightly past the **IDLE** position.



35

2. Pull the starter rope slowly and with low force until the slack is out of the rope and resistance is felt.
3. When resistance is felt, pull the rope with enough force to turn the engine fast enough to start the engine.



36

4. Move the throttle to the **RUN** position when operating the machine.



37

STOPPING THE ENGINE

1. Place the throttle to the **IDLE** position and allow the engine to idle for 30 seconds.



38

-
2. Place the throttle in the **STOP** position and the engine should stop running.

NOTE: ENGINE COMPONENTS GET VERY HOT DURING OPERATION. STOP THE ENGINE AND ALLOW IT TO COOL BEFORE DOING ANY WORK ON THE ENGINE.

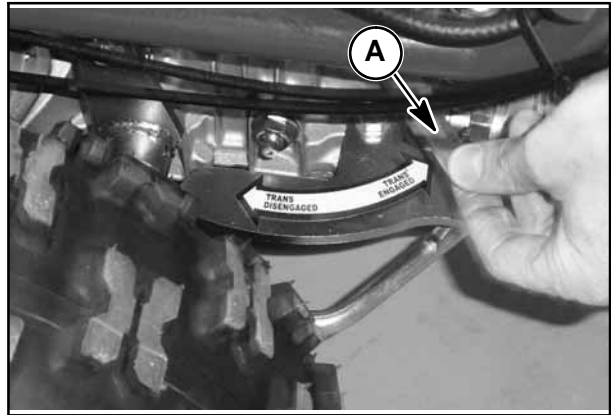


39

OPERATING THE DIRECTIONAL SPEED CONTROLS

PRELIMINARY STEPS TO MOVING THE MACHINE IN ANY DIRECTION WITH ENGINE RUNNING

1. Place LEVER, A, in the TRANSMISSION ENGAGED position as shown and described in the "Transmission Control Lever" Section.



40

2. Start the engine using the procedure described in the "Engine Operation" Section.



41

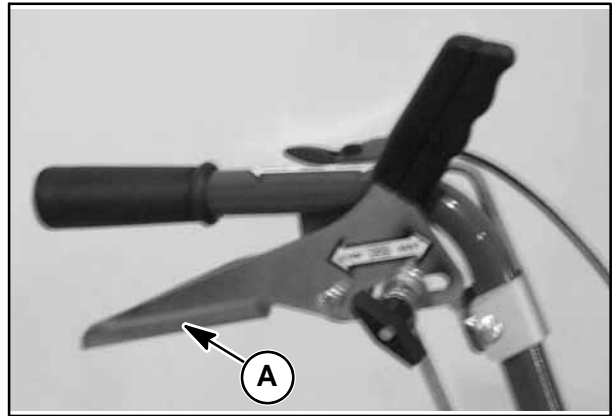
3. If equipped, place the OPTIONAL PARK BRAKE in the OFF position.



42

STOPPING MOVEMENT WITH ENGINE RUNNING

1. RELEASE the HYDROSTATIC CONTROL LEVER, A. The lever will automatically go the neutral position as shown.
2. When the hydrostatic lever is in the neutral position the machine will stop and not move.



43

VARIABLE SPEED CONTROL ADJUSTMENT

1. Adjust to slowest speed.

The maximum forward and reverse speeds can be adjusted to meet specific operating conditions by moving the Control Knob, A, in the adjustment slot.



WARNING: Adjust to slowest speed setting, B, (fully to the rear of the slot) while learning to operate the machine and when operating in confined spaces.

NOTE: Only adjust the variable speed control when the machine is stopped.

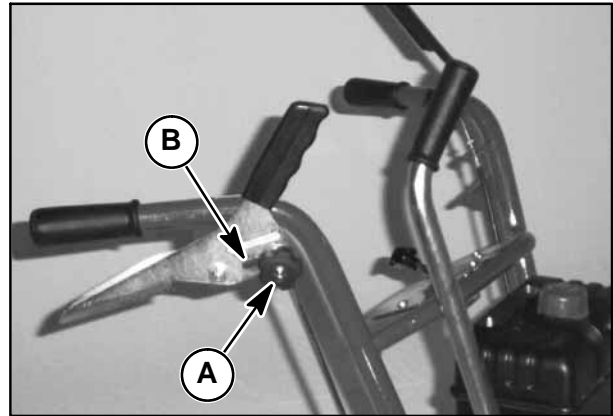
ADJUSTING THE VARIABLE SPEED CONTROL

1. Loosen the control knob, A.
2. Move the VARIABLE SPEED CONTROL KNOB forward to the FAST position to increase maximum speed.
3. Move the VARIABLE SPEED CONTROL KNOB rearward to the SLOW position to decrease maximum speed. (Knob shown in slowest position.)
4. Tighten control knob, A.

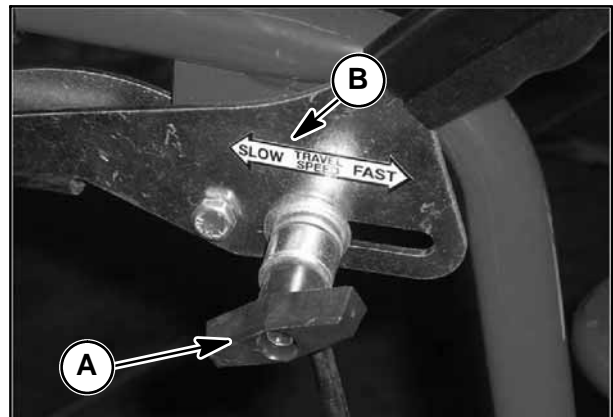
NOTE: The optimum location of the VARIABLE SPEED CONTROL KNOB allows you to fully engage the hydrostatic control lever to achieve a comfortable operating speed for the ground conditions.

NOTE: Moving the VARIABLE SPEED CONTROL KNOB toward the FAST position increases hydrostatic control level effort.

NOTE: Moving the VARIABLE SPEED CONTROL KNOB toward the SLOW position decreases hydrostatic control level effort.



44



45

FORWARD DIRECTION

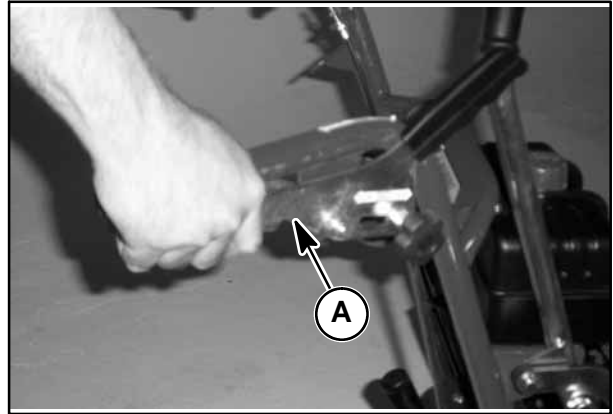
1. Complete the 4 steps in the PRELIMINARY STEPS TO MOVING THE MACHINE if not already completed.
2. SLOWLY apply pressure and gradually PULL UP on the HYDROSTATIC CONTROL LEVER, A, to provide a smooth start.
3. Forward speed is directly proportional to the amount the hydrostatic control lever is moved.
4. The more the lever is pulled up, the faster the forward ground speed will be.



CAUTION: When stopping, gradually release pressure on the speed control level to provide a smooth stop.

REVERSE DIRECTION

1. Complete the 4 steps in the PRELIMINARY STEPS TO MOVING THE MACHINE if not already completed.
2. SLOWLY apply pressure and gradually PULL BACK on the HYDROSTATIC CONTROL LEVER to provide a smooth start.
3. Reverse speed is directly proportional to the amount the hydrostatic control lever is moved.
4. The more the lever is pulled back, the faster the reverse ground speed will be.
5. Slowly release the lever to come to a smooth stop.



46



47

OPERATING THE BRUSH CUTTER

1. Start the engine and place the throttle to the run position as described in the "STARTING THE ENGINE" section.



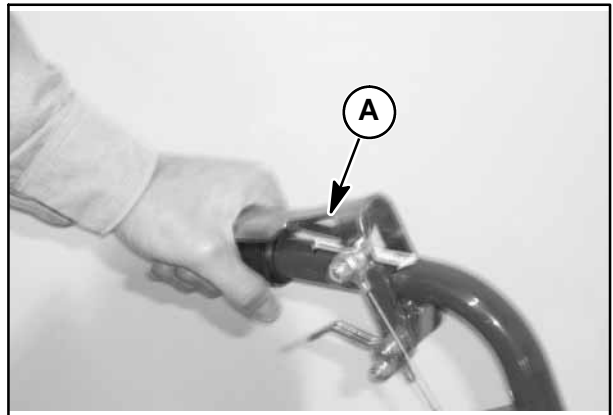
48

2. Depress the Brush Cutter DRIVE CONTROL AND BRAKE LEVER, A, as shown. This releases the attachment drive brake and engages the drive.



CAUTION: Operating at excessive speeds can cause excessive wear or damage to the machine.

NOTE: Engage attachment drive before entering the area to be cut.



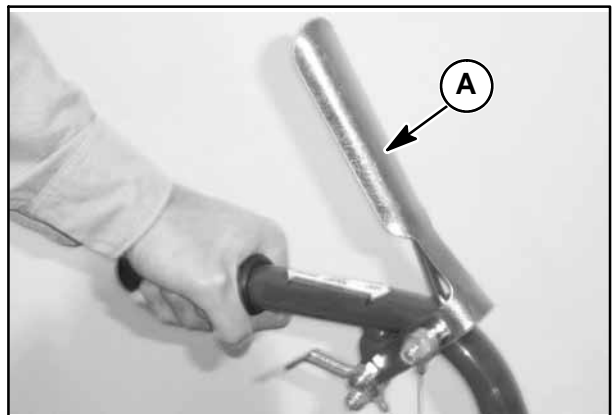
49

STOPPING THE BRUSH CUTTER

1. Release the Brush Cutter DRIVE CONTROL AND BRAKE LEVER, A, as shown. This will disengage the drive and apply the brake to stop the blade from turning.

NOTE: Apply and release the drive control lever in a smooth quick motion.

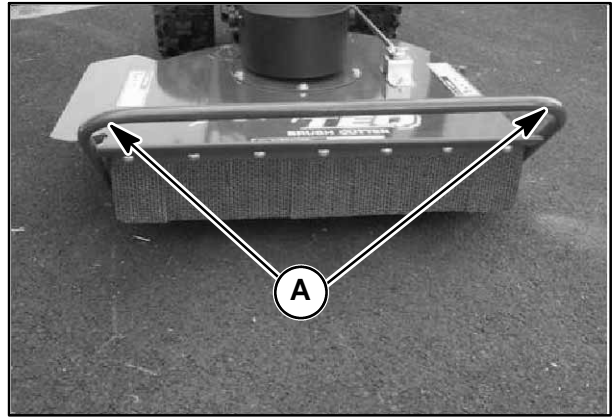
NOTE: Do not allow the clutch slowly or it will slip and overheat causing premature failure.



50

SECURING THE BRUSH CUTTER FOR TRANSPORT

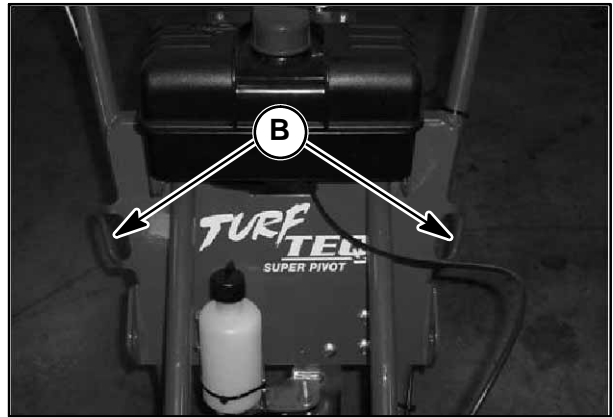
1. Position the Brush Cutter on a trailer or other vehicle.
2. Stop the engine.
3. Lower the Brush Cutter until the skids rest on the trailer deck.
4. Use the corner of the front push bar, A, to secure the front of the machine.



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5. Secure the rear of the tractor using the tie down loops, B, as shown.

NOTE: Do not over tighten the tie down straps or the frame or tires may be damaged.



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BRUSH CUTTER SERVICE AND MAINTENANCE SCHEDULE

Area	Check Interval	Action
Engine oil level	Daily when in use	See engine manual
Engine maintenance	Daily when in use	See engine manual
Transmission oil level	Daily when in use	Fill as required
Lubricate grease zerks	Daily when in use	Grease
Lubricate control cables	Daily when in use	Lubricate
Lubricate pivot points	Daily when in use	Lubricate
Check main drive belt condition	Daily when in use	Check condition/tension
Check clutch cable adjustment	Daily when in use	Check/adjust spring length
Check blade condition	Daily when in use	Check/sharpen/change
Check blade nut torque	Daily when in use	Torque as required

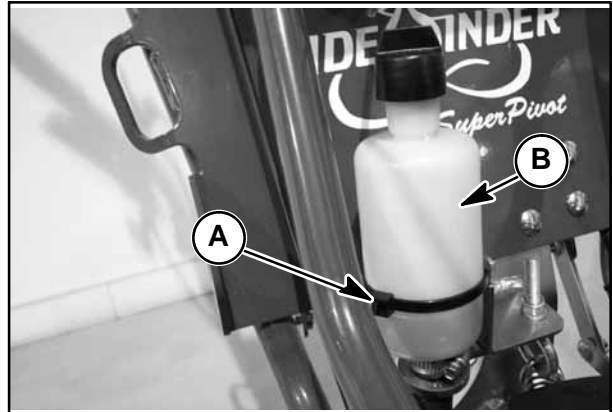
SERVICE

ENGINE MAINTENANCE

See engine manufactures owners manual.

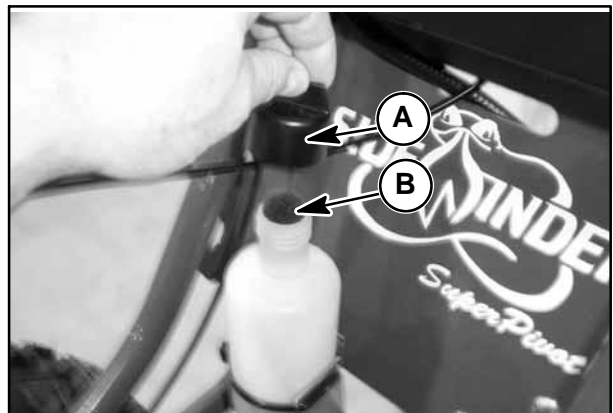
TRANSMISSION OIL LEVEL

1. Check the oil level when the transmission is cool.
2. The oil level should be to the full line, A, on the reservoir ,B.
3. Use 10W30 API motor oil to fill the reservoir.



53

4. Add oil by removing cap, A, then remove foam element, B.
5. Add oil as required.
6. Replace foam element and replace cap.



54

LUBRICATION

Lubricate the following grease points every 10 hours or on an annual basis whichever comes first.

Use a SAE all weather, high temperature, multipurpose grease.

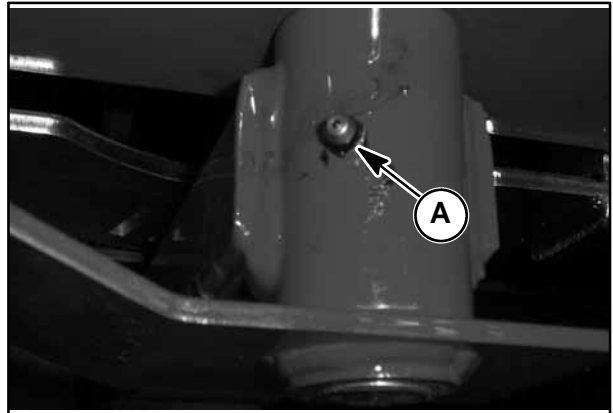
Add grease to the fittings until there is a slight increase in effort needed to operate the grease gun handle.



CAUTION: Worn grease fittings that will not hold the gun, and fittings with a stuck check ball, must be replaced.

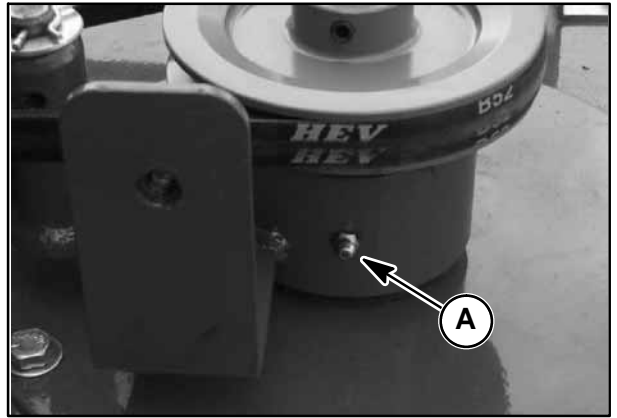
Items not equipped with grease fittings (linkages, cables, pins, levers, etc.) should be lubricated with SAE 30 oil before the start of each operating day, or more frequently as conditions require.

Attaching pivot located at the pivot located under the frame below the engine. Apply grease to zerk, A.



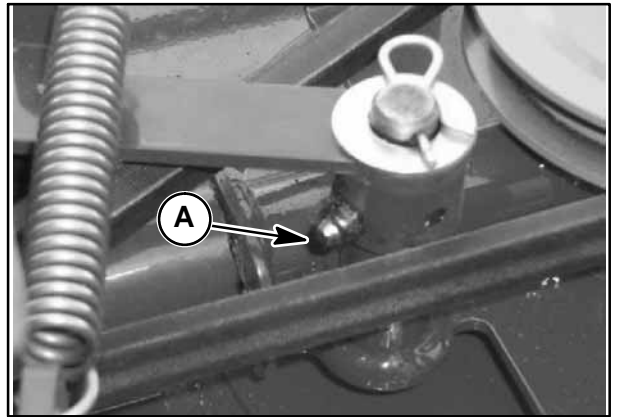
55

Deck pivot point. Apply grease to zerk, A.



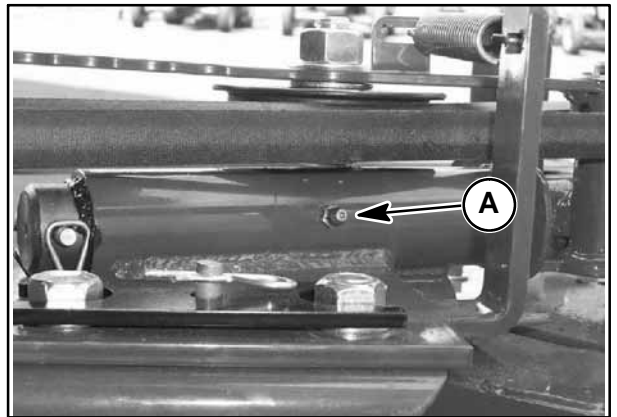
56

Idler pivot point. Apply grease to zerk, A.



57

Deck attaching pivot. Apply grease to zerk, A.



58

LUBRICATE CONTROL CABLES

Lubricate cables with WD 40, silicone or 10 weight motor oil.

Add lubrication between the cable and the sheath.

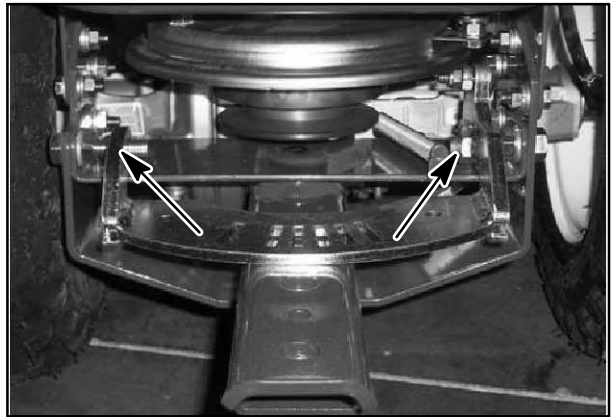


59

LUBRICATE PIVOT POINTS

Lubricate all pivot points with WD 40, silicone or 10 weight motor oil.

Add lubrication to pivot points.



60

MAIN DRIVE BELT

The main drive belt transfers power from the engine to the Brush Cutter. It is automatically tensioned by a spring attached to the idler assembly.

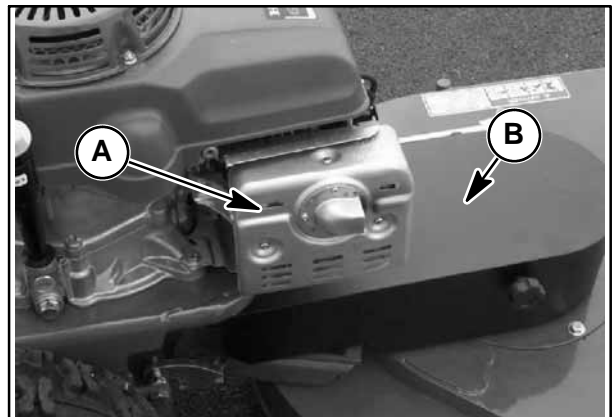


WARNING: Before starting any work:

1. Allow the engine and muffler to cool before starting work.
2. Remove the spark plug wire from the spark plug.
3. Place the throttle control to the Stop position.

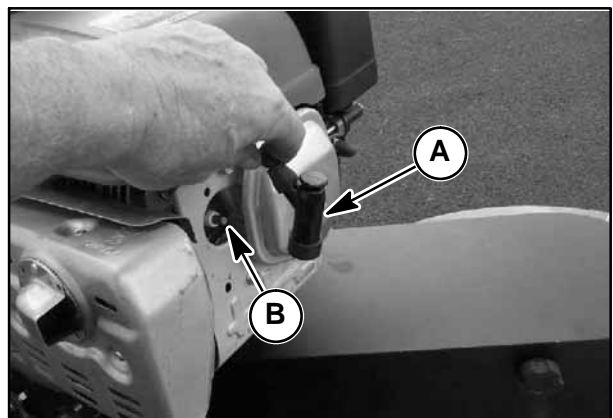
CHECK MAIN DRIVE BELT CONDITION

1. Allow the engine and muffler, A, to cool before working around the engine or to remove the main belt shield, B.



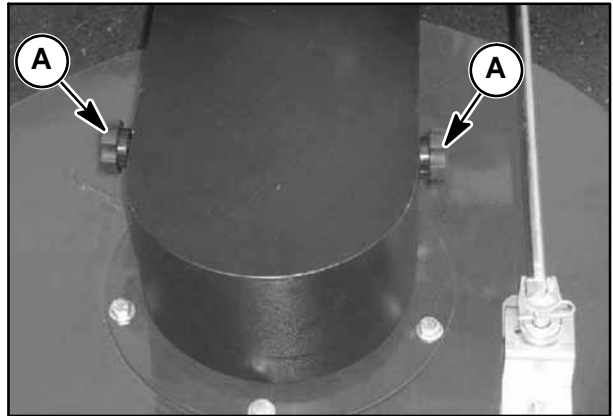
61

2. Remove the spark plug wire, A, from the spark plug, B.



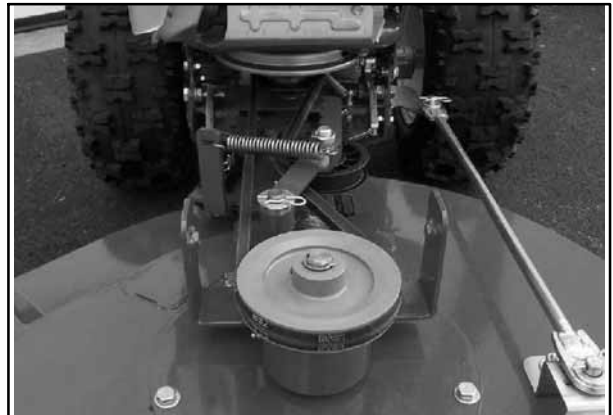
62

3. Remove the two shield attaching knobs, A.



63

4. Remove the shield to access the belt.
5. Check the condition of the belt and the tensioning spring.
6. Replace the belt if worn or stretched.
7. Check belt tension.
8. Reinstall all shields.



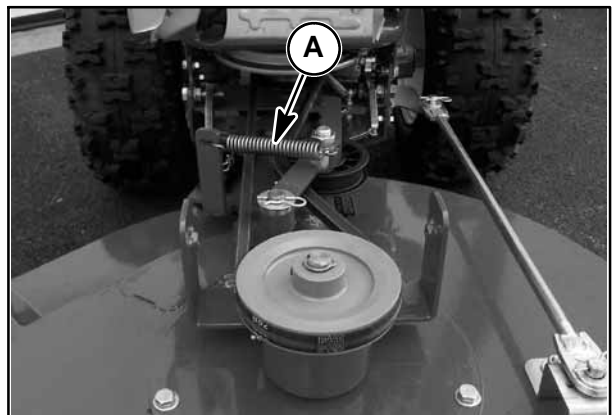
64

CHECK MAIN DRIVE BELT TENSION

The main drive belt transfers power from the engine to the Brush Cutter. It is tensioned by a spring, A, attached to the idler.

The belt is automatically tensioned by the spring, A.

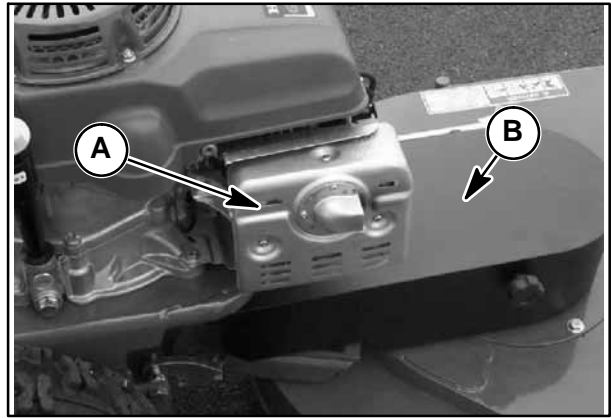
NOTE: No adjustment is required. Replace the belt if it starts to slip.



65

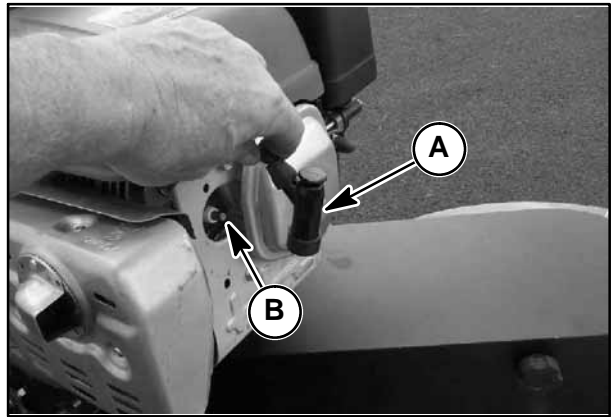
REPLACING THE MAIN DRIVE BELT

1. Allow the engine and muffler, A, to cool before working around the engine or to remove the main belt shield, B.



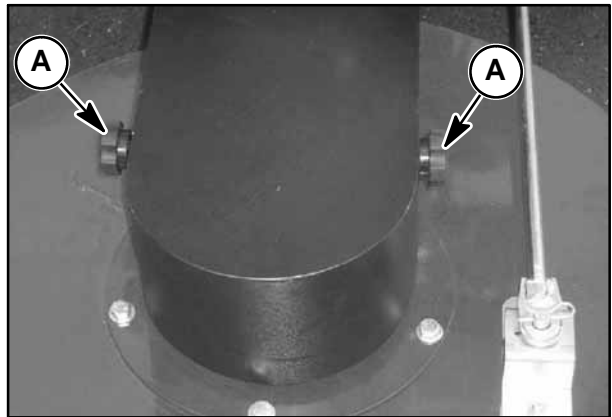
66

2. Remove the spark plug wire, A, from the spark plug, B.



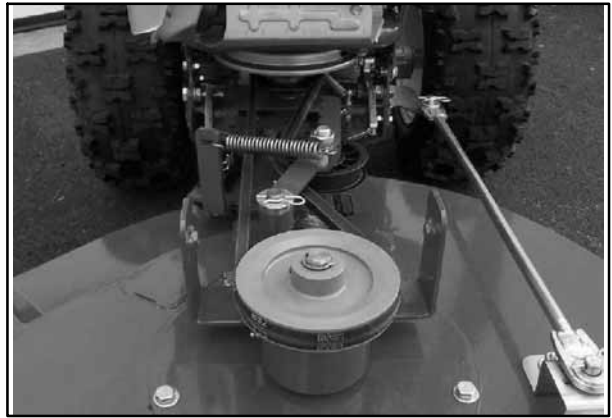
67

3. Remove the two shield attaching knobs, A.



68

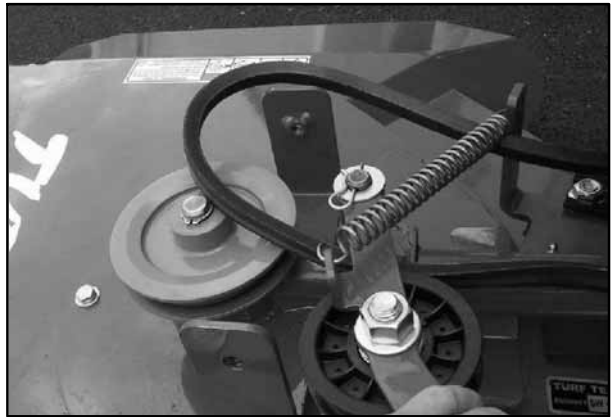
4. Remove the shield to access the belt.



69

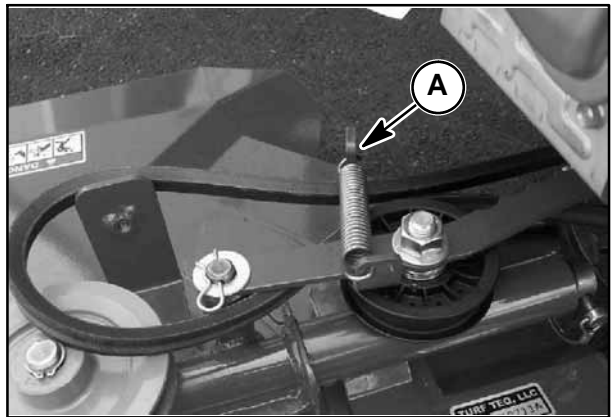
5. Pull on idler arm to remove belt tension.

6. Remove belt from pulley.



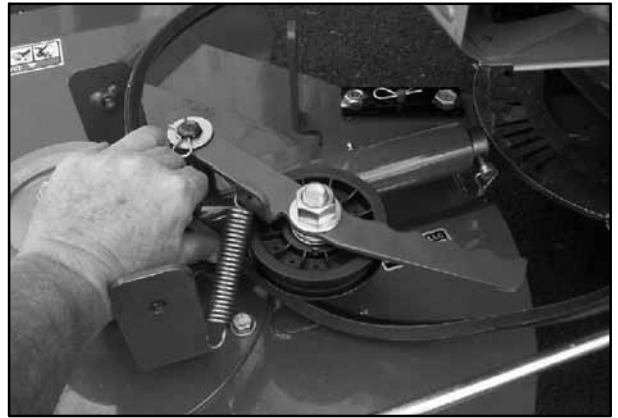
70

7. Remove spring from anchor arm, A.



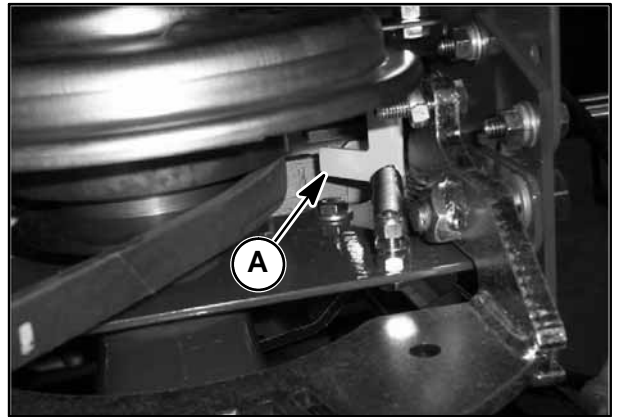
71

8. Slide belt under the idler.



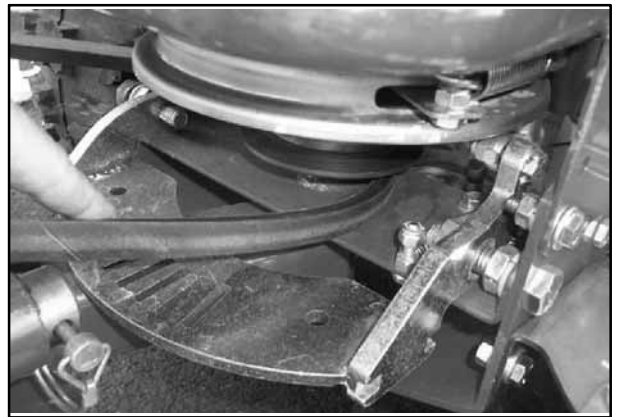
72

9. Push the belt guide, A, to the unlatched position as shown.



73

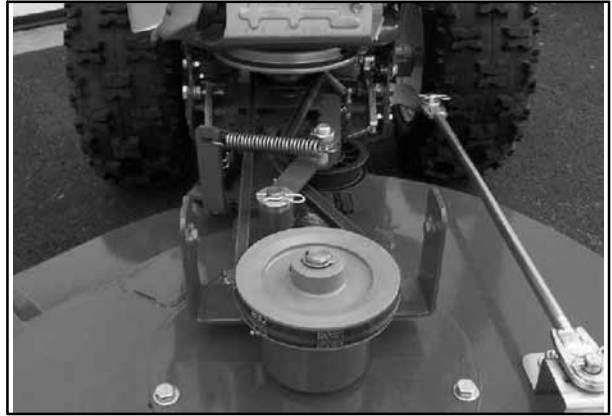
10. Remove the belt by sliding it between the pulley and the frame.



74

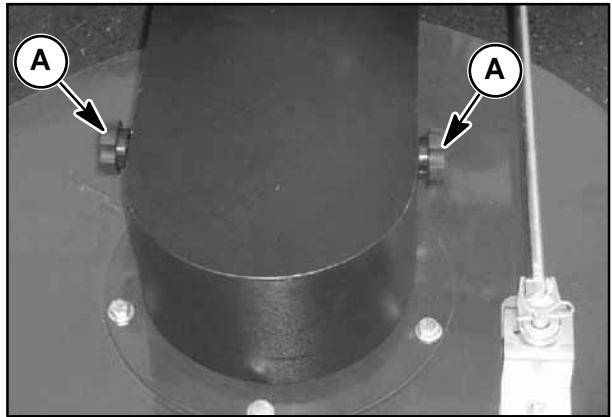
INSTALLING THE MAIN DRIVE BELT

1. Install the belt by reversing the removal procedure.



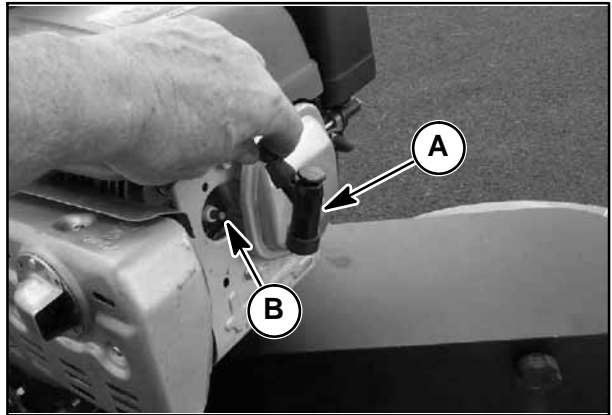
75

2. Reinstall the belt shield and tighten the two shield attaching knobs, A.



76

3. Install the spark plug wire, A, on the spark plug, B.



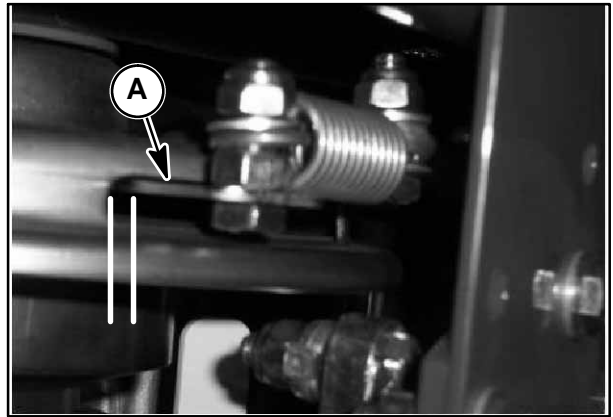
77

CLUTCH CABLE ADJUSTMENT

NOTE: Before checking clutch cable adjustment, check that when the clutch handle released is released, the clutch spring must not have tension on it and the lever, A, must be within 1/4 inch of the clutch housing as shown.



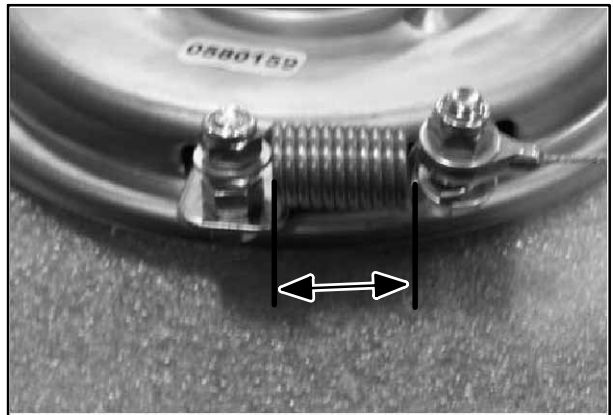
78



79

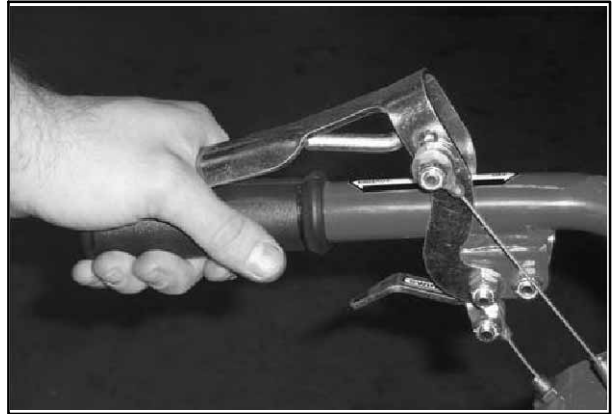
1. Measure the length of the spring in the disengaged position as shown.

NOTE: The spring must not have tension on it in the released position.



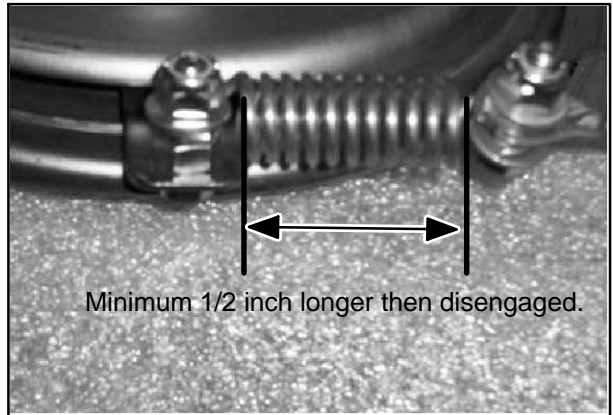
80

- Engage the attachment clutch lever.



81

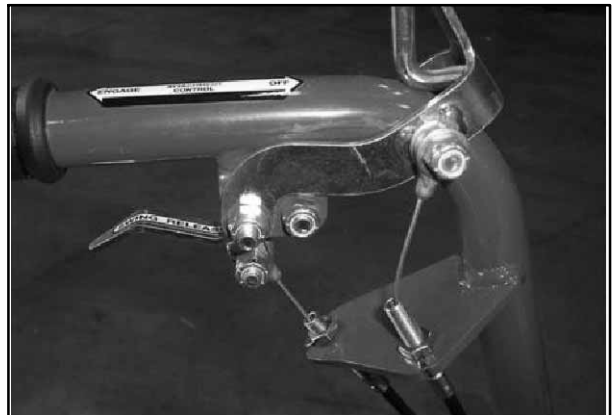
- Measure the length of the spring in the engaged position. It should be at least 1/2 inch longer than your measurement in the disengaged position.



82

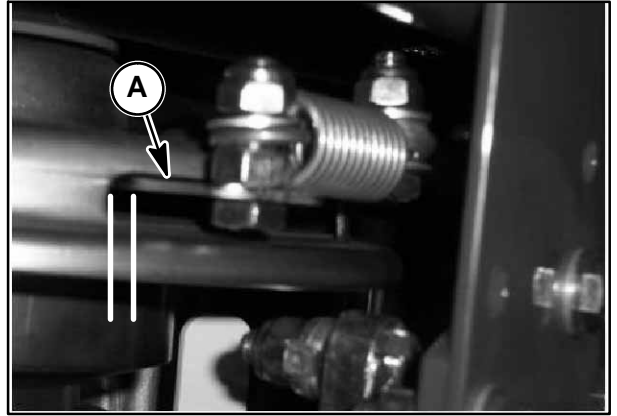
- Adjust the clutch cable nuts to obtain 1/2 inch stretch of the spring.

NOTE: Adjust the clutch cable nuts clockwise to increase spring tension.



83

NOTE: After adjusting the clutch cable, check that when the clutch handle is released the clutch spring has no tension on it and the lever, A, is within 1/4 inch of the clutch housing as shown.



84

TRANSMISSION DRIVE BELT

The belt delivers power from the engine to the transmission.

The belt does not need attention unless it starts to slip.

NOTE: If the belt starts to slip check belt tension as described below. If the tension is correct, the belt **MUST** be replaced.

NOTE: Do not over tighten the belt. Over tightening the belt will cause damage to the engine and/or transmission.

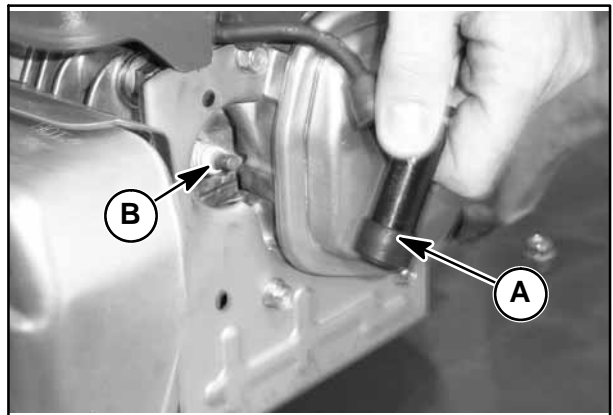


WARNING: Before starting any work:

1. Allow the engine and muffler to cool before starting work.
2. Remove the spark plug wire from the spark plug.
3. Place the throttle control to the Stop position.

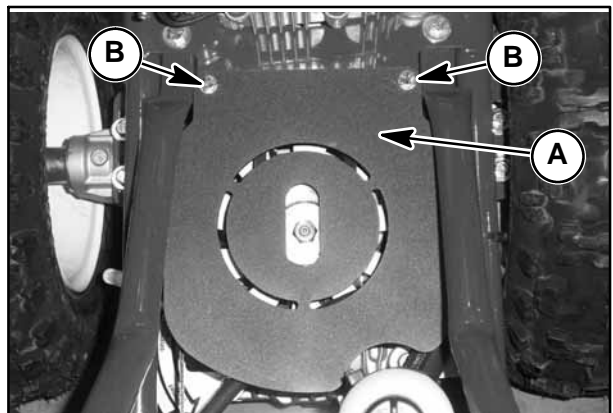
CHECK AND ADJUST TRANSMISSION DRIVE BELT TENSION

1. Remove the spark plug wire, A, from the spark plug, B.



85

2. Remove transmission shield, A, after removing two bolts, B.



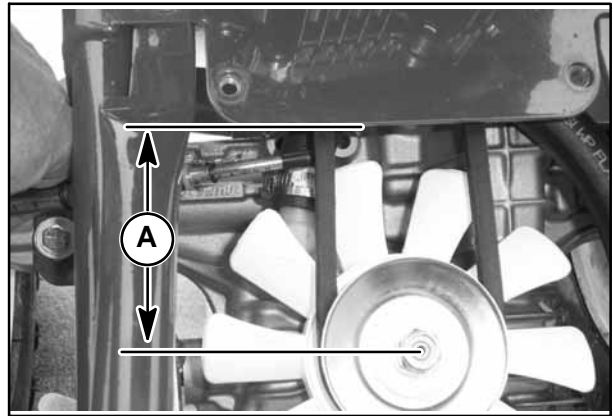
86

3. Check the belt for glazed belt edges, cracks or missing pieces. Replace the belt if any of the previous conditions are found. Proceed to the "Belt Replacement" section.
4. Check that the distance at A, from the frame to the center of the transmission input shaft, is between 3-5/8 to 3-3/4 inches as shown.

ATTENTION:

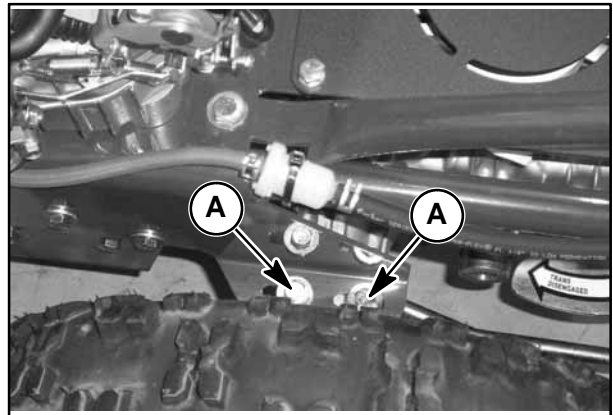
If the distance is less than 3-5/8 inches, proceed to step 5.

If the distance is 3-3/4 inches or greater, proceed to the "Belt Replacement" section.



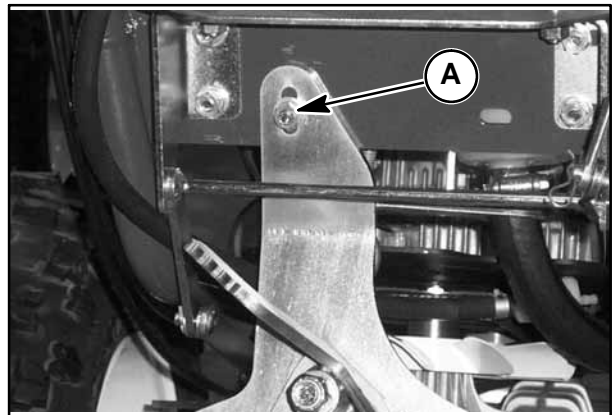
87

5. Loosen the two retaining bolts, A, that attach the left axle to the frame. Also, loosen the two retaining bolts securing the right axle to the frame.



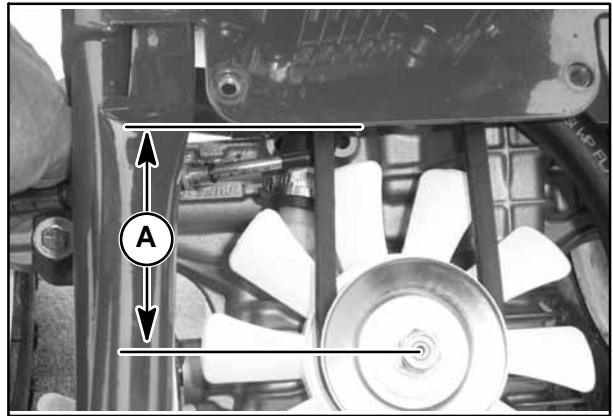
88

6. Loosen bolt, A, that attaches the transmission to the support.



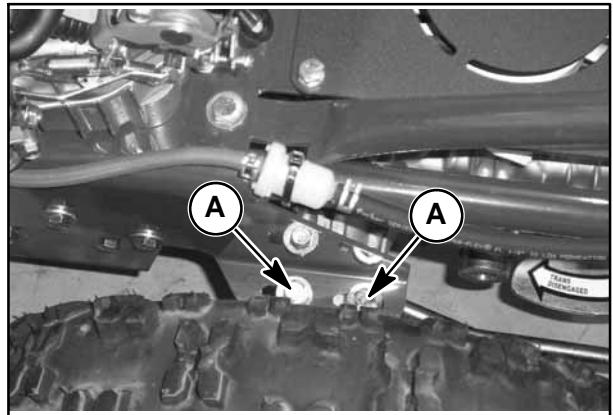
89

7. Adjust dimension at A, from the frame to centerline of the transmission shaft to 3-5/8 to 3-3/4 inches.



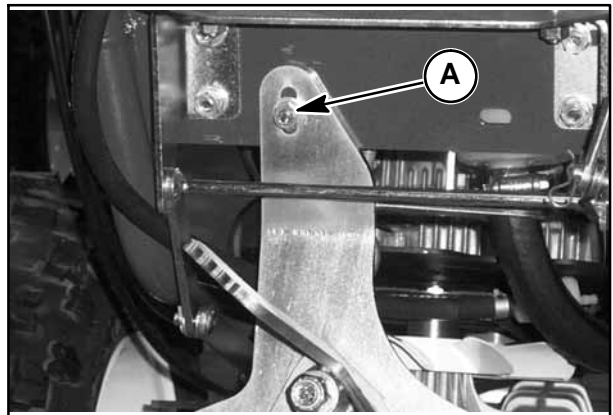
90

8. Tighten the two axle to frame attaching bolts, A, for the left axle. Tighten the two axle to frame bolts on the right axle.



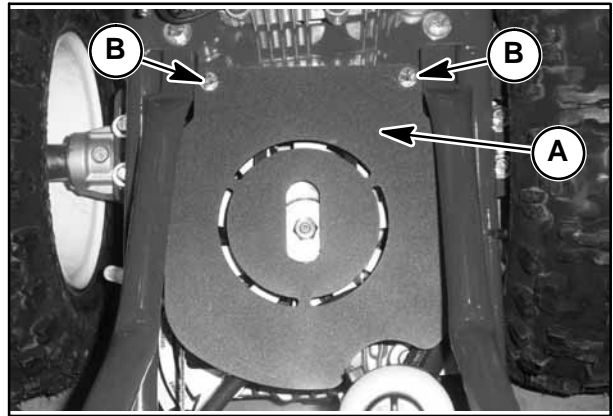
91

9. Tighten attaching bolt, A.



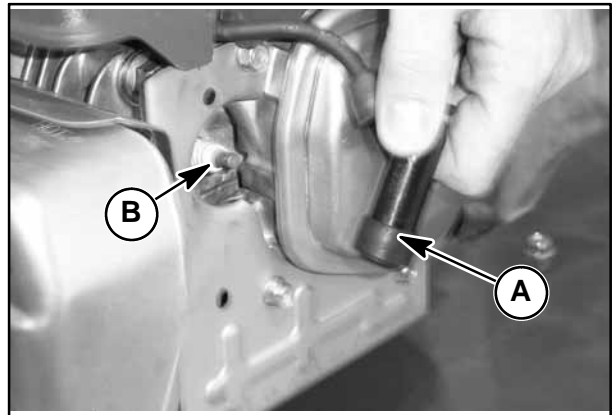
92

10. Install the transmission shield, A, and secure with bolts, B.



93

11. Install the spark plug wire, A, on the spark plug, B.



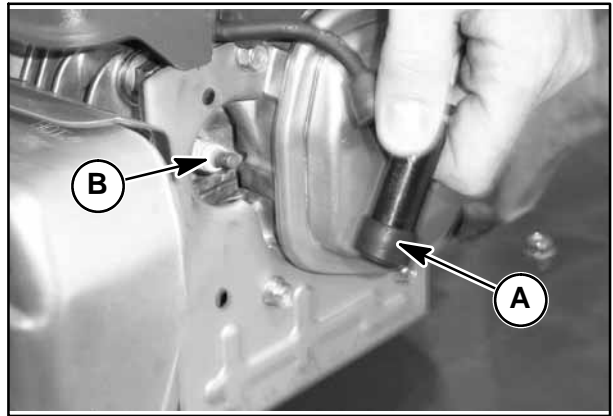
94

12. Start the engine and check for proper operation. Correct any issues before using the machine.

TRANSMISSION DRIVE BELT REPLACEMENT PROCEDURE

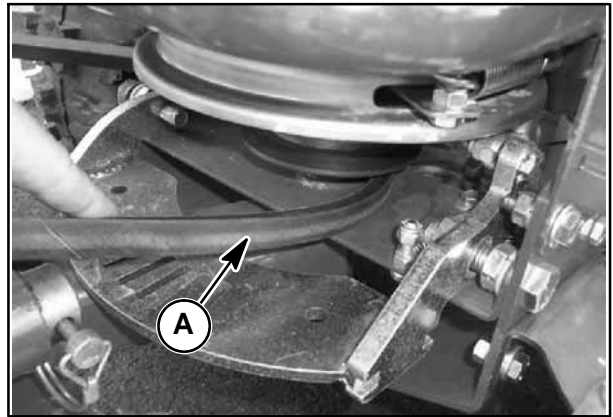
Belt Removal

1. Remove the spark plug wire, A, from the spark plug, B.



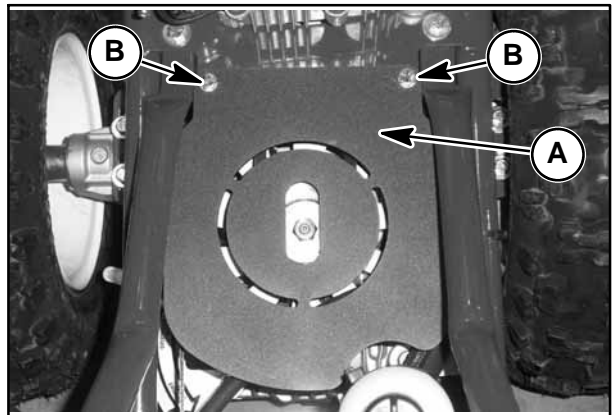
95

2. Remove the Brush Cutter main drive belt, A, from the engine pulley as described in the "Remove Main Drive Belt" section.



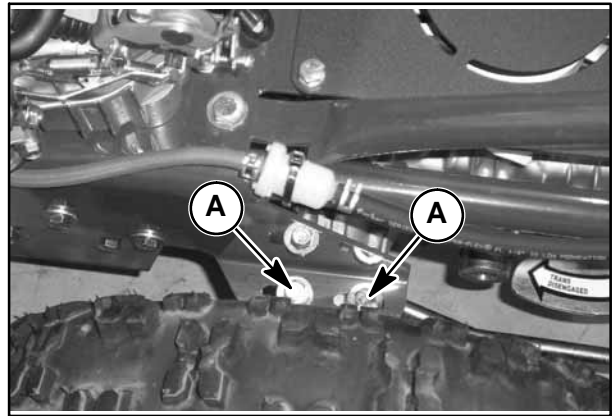
96

3. Remove transmission shield, A, after removing two bolts, B.



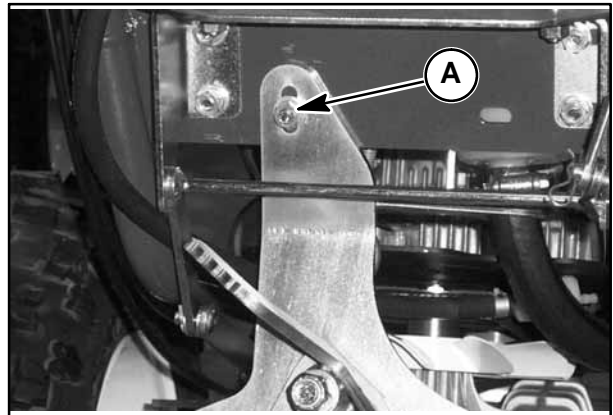
97

- Loosen the two retaining bolts, A, that attach the left axle to the frame. Also, loosen the two retaining bolts securing the right axle to the frame.



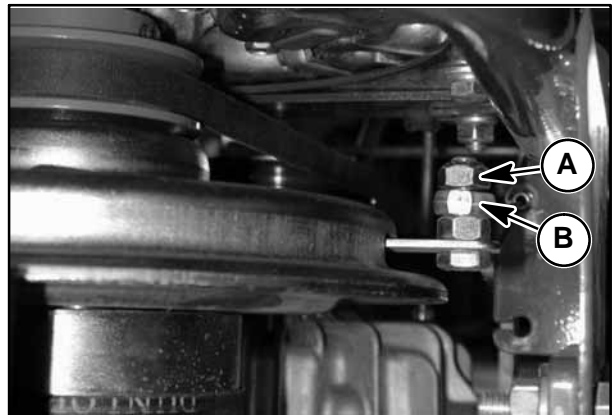
98

- Loosen bolt, A, that attaches the transmission to the rear frame support.



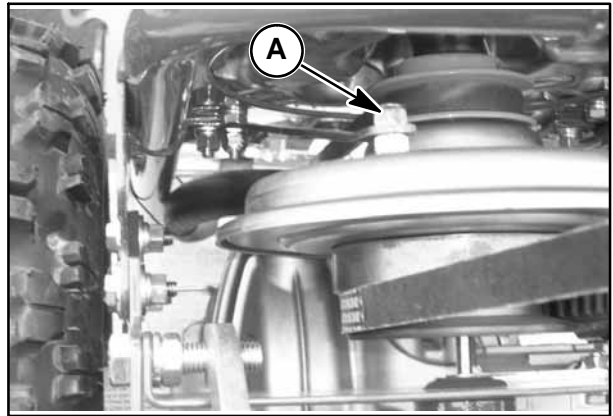
99

- Remove the clutch brake cable jam nut, A, then remove the cable yoke, B, from the stud.



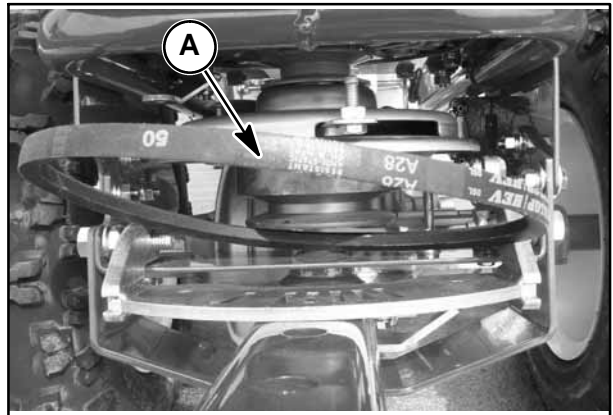
100

7. Remove nut, A, that hold the clutch brake torque strap then remove the strap from the stud and swing the strap toward the frame.



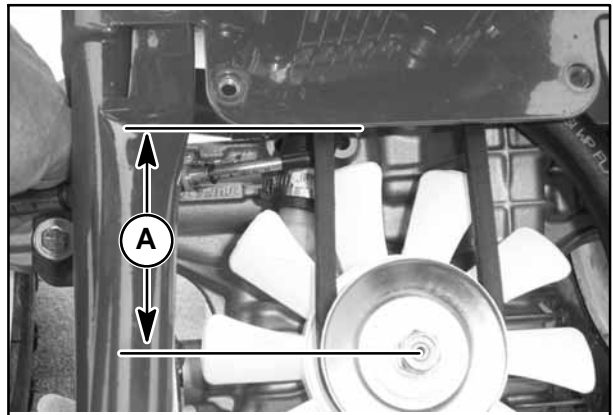
101

8. Remove the transmission belt, A, from the engine and transmission pulleys and from the tractor as shown.



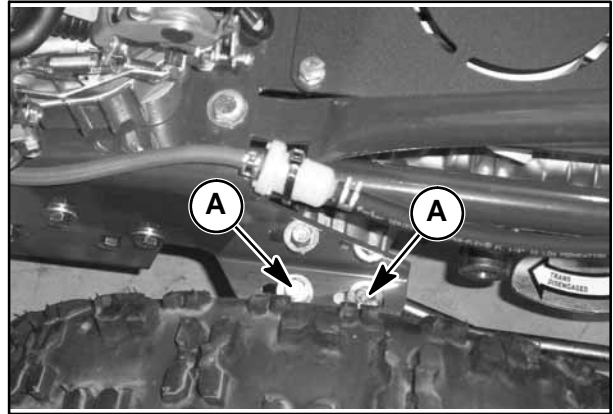
102

9. Adjust dimension at A, from the frame to centerline of the transmission shaft to 3-5/8 to 3-3/4 inches.



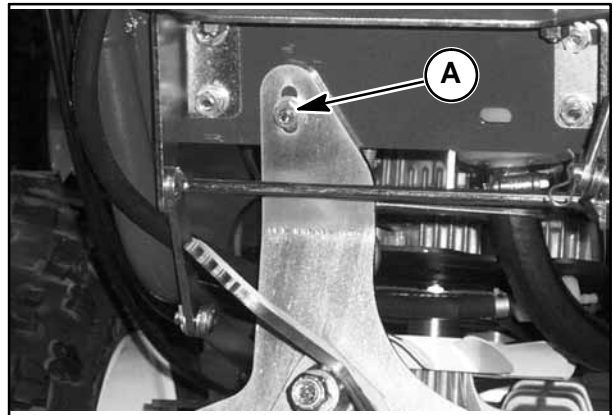
103

10. Tighten the two axle to frame attaching bolts, A, for the left axle. Tighten the two axle to frame bolts on the right axle.



104

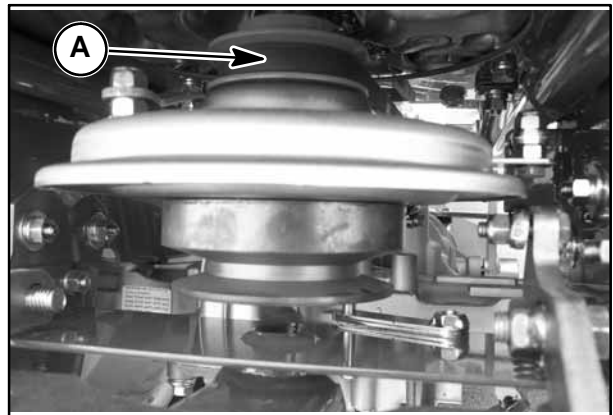
11. Tighten attaching bolt, A.



105

Belt Installation

12. Install the new transmission belt, A, and place on the engine sheave.



106

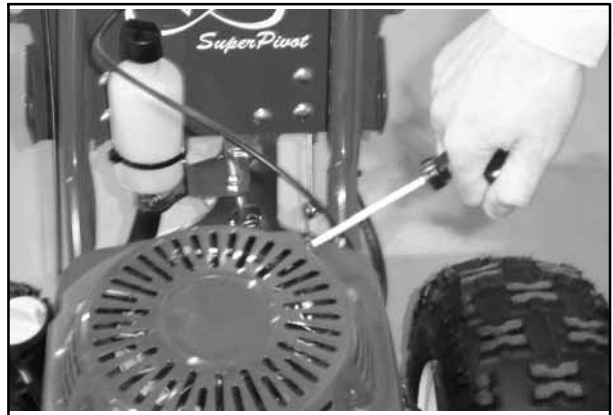
13. Place the belt on the transmission pulley as shown.



107

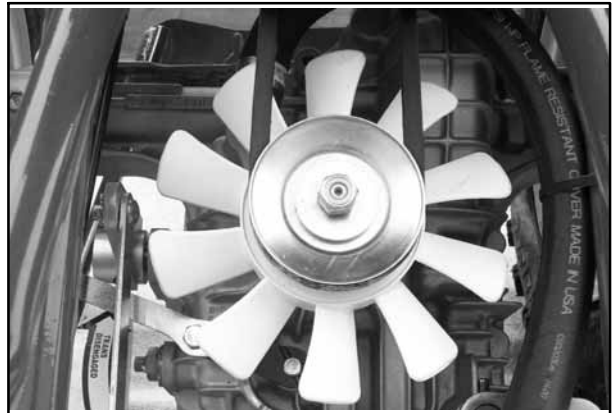
14. Slowly pull on the engine starter rope to place the belt on the pulley.

NOTE: Spark plug wire must be removed from the spark plug.



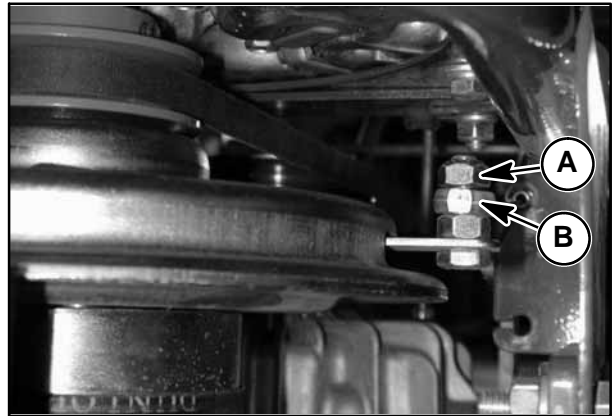
108

15. After the belt has seated on the pulley, pull the starter rope 4 times and check that the belt is fully seated on the pulleys, running straight, not contacting any objects and is not damaged. Correct as required.



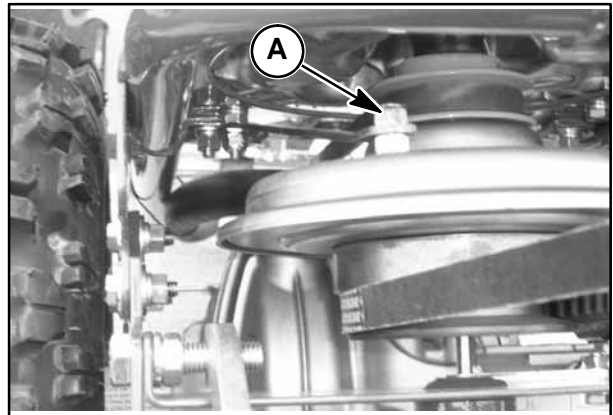
109

16. Install cable yoke, B, on the stud. Put two drops of red Locktite #271 on the threads of the jam nut, A, then tighten on the stud until there is 1/64 inch clearance between the jam nut and the yoke.



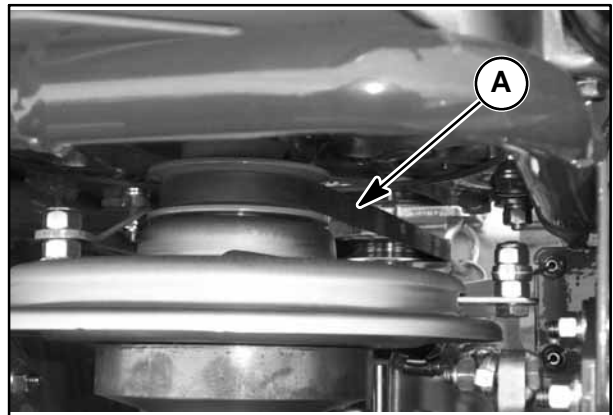
110

17. Reinstall the clutch brake torque strap. Put two drops of red Locktite #271 on the threads of the jam nut, A, then tighten securely.



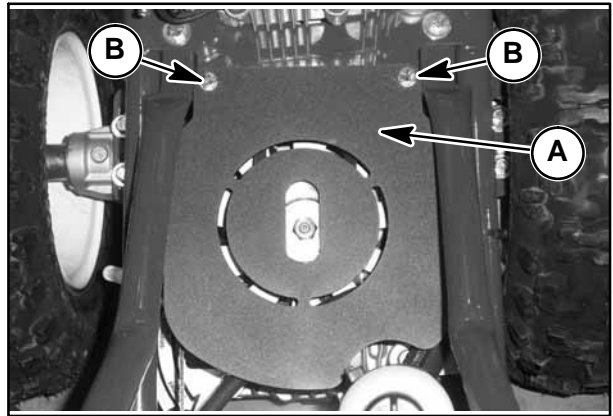
111

18. Check that the transmission drive belt, A, is tracking correctly and not contacting any objects.



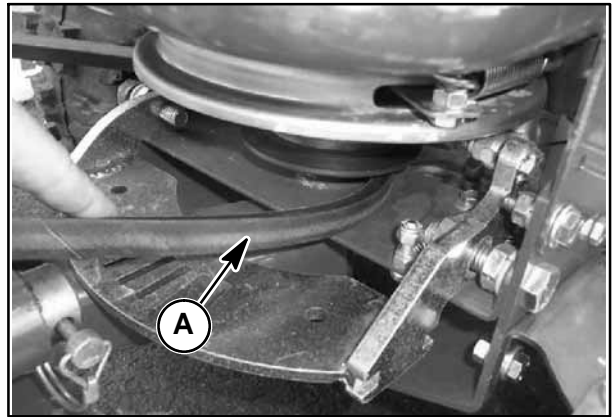
112

19. Install the transmission shield, A, and secure with bolts, B.



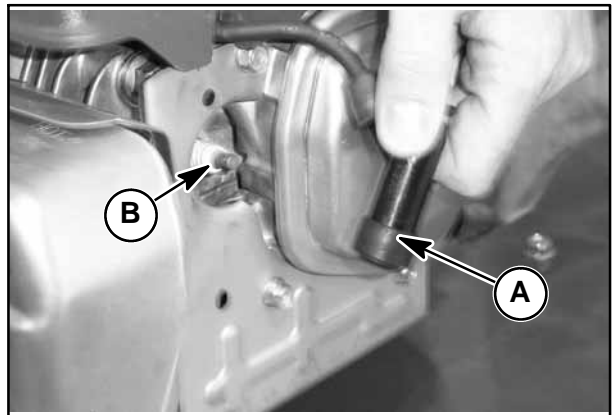
113

20. Install the Brush Cutter drive belt, A, as described in the "Replace Main Drive Belt" section.



114

21. Install the spark plug wire, A, on the spark plug, B.



115

22. Start the engine and check for proper operation. Correct any issues before using the machine.

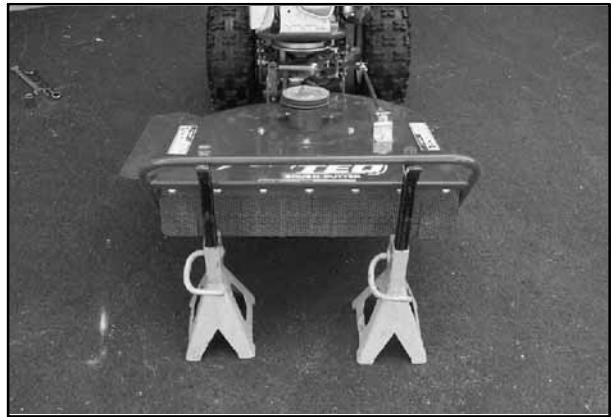
REPLACING THE BLADE

1. Remove the spark plug wire from the spark plug.



116

2. Support the deck on two jack stands as shown.



117

3. Remove the belt shield and hold the top pulley with a suitable wrench.



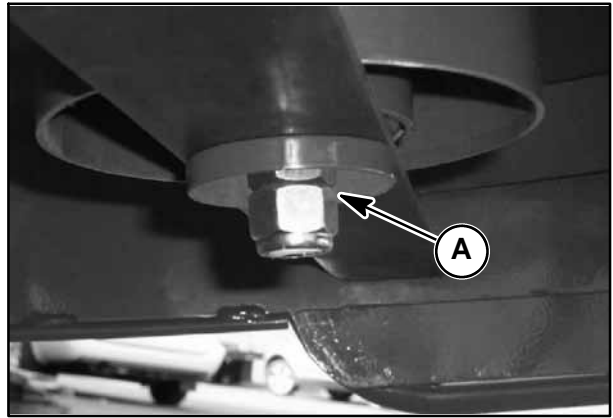
CAUTION: Wear thick gloves when working around the blade. The blade is sharp and can cut you.



118

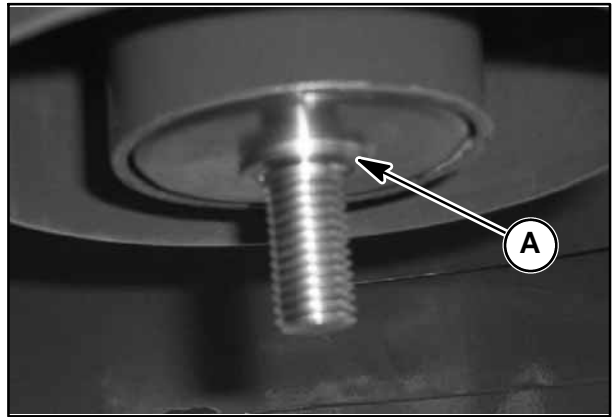
4. Remove the nut and spacer, A, using a 15/16 wrench.

NOTE: The nut is a right hand thread nut.



119

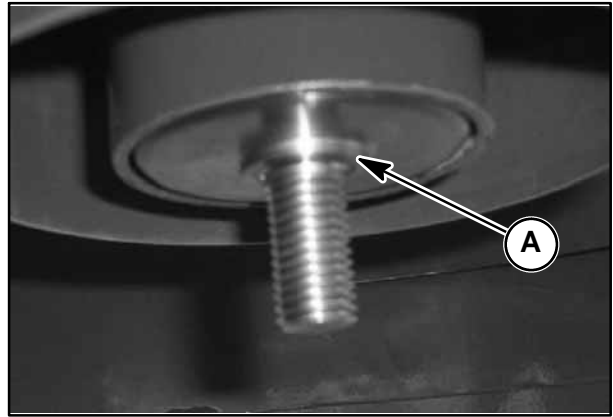
5. Check the condition of the threads on the shaft and nut. Replace if there is thread damage or if the nut is a loose fit on the shaft.
6. Check the pilot lip, A, for damage. Replace shaft if the lip is damaged.



120

BLADE INSTALLATION

1. Install the blade over the pilot lip, A.

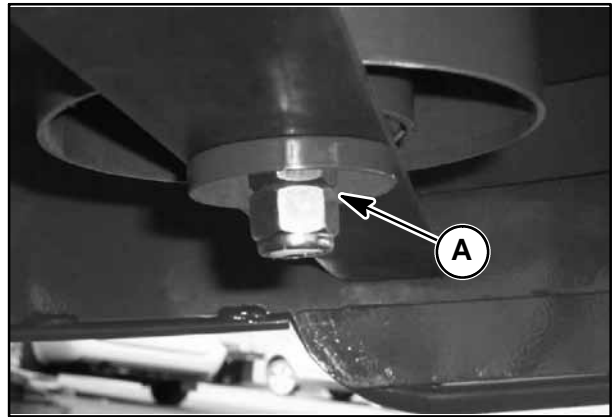


121

2. Install the spacer and nut, A.
3. Torque nut to 90 lbs/ft.



DANGER: Blade must fit over the pilot lip and nut must be torqued to 90 lbs/ft. or the blade may come loose.



122

4. Hold the flat sides of the shaft with a suitable wrench as shown while you torque the blade nut to 90 lbs/ft.

NOTE: Failure to hold the shaft will result in the nut not being torqued properly.

5. Install spark plug wire and main belt shield.
6. Run the mower.



123

NOTE: If the mower vibrates or you hear unusual noise stop the machine immediately. Find then repair the cause of the problem before operating the mower.



124

ATTACHING THE BRUSH CUTTER TO THE TRACTOR

SAFETY NOTES



WARNING: Read the entire operator's manual before starting any work.

Read these instructions thoroughly before starting any work.

Place the machine on a flat, level and hard surface.

Wear appropriate protective clothing, gloves and eye protection.



125

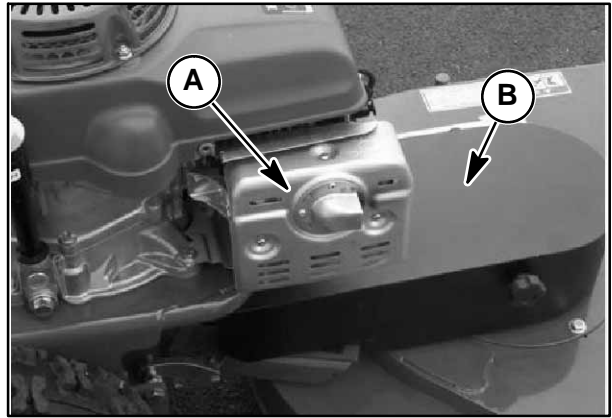


CAUTION: Do not work on the machine when the muffler is hot.



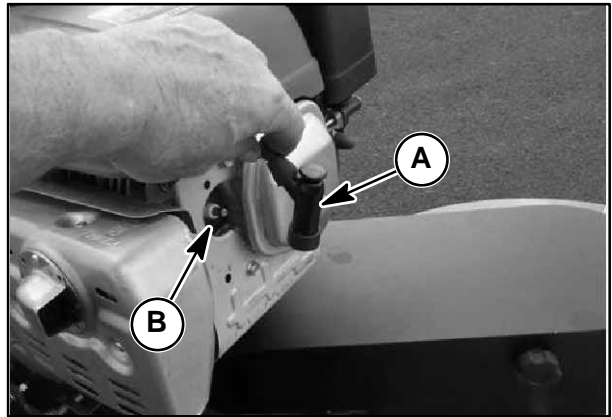
126

1. Allow the engine and muffler, A, to cool before working around the engine or to remove the main belt shield, B.



127

2. Remove the spark plug wire, A, from the spark plug, B.



128

3. Remove any attachment from the tractor.
4. Place blocking under the tractor as shown.



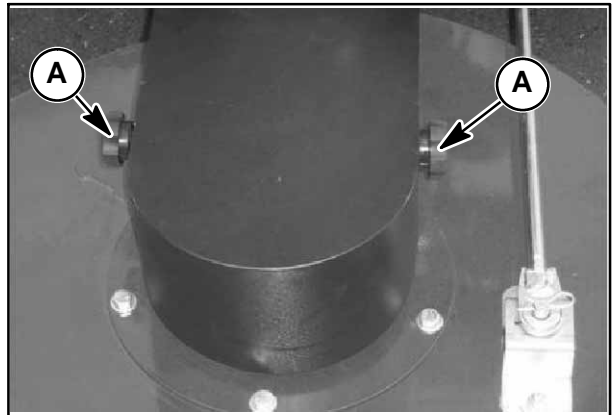
129

NOTE: Do not park the tractor resting on the tongue.
Oil will fill the cylinder causing the engine to smoke.



130

5. Remove the two shield attaching knobs, A.



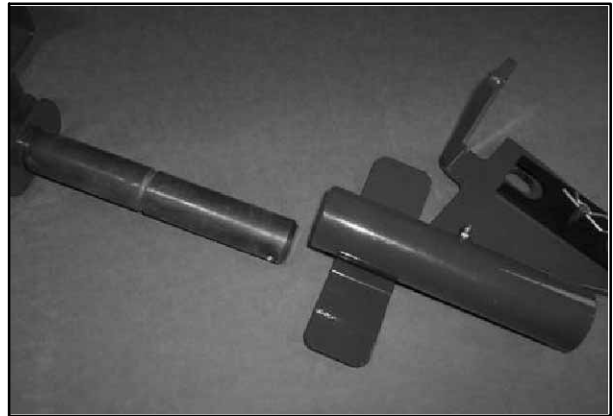
131

6. Remove the pin.



132

7. Slide the tube off the rod.



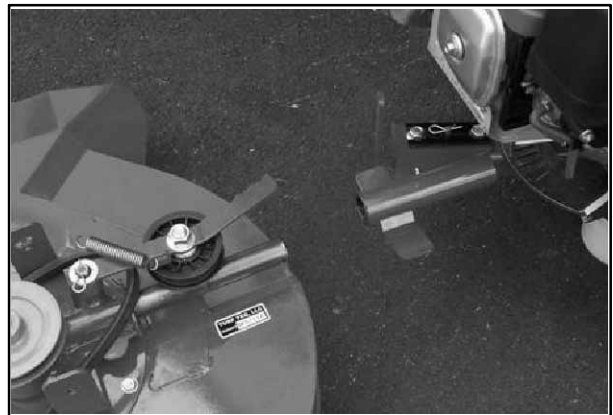
133

8. Remove pin.



134

9. Slide the mount bracket from the tube.



135

10. Install the receiver, A, on the tongue.



136

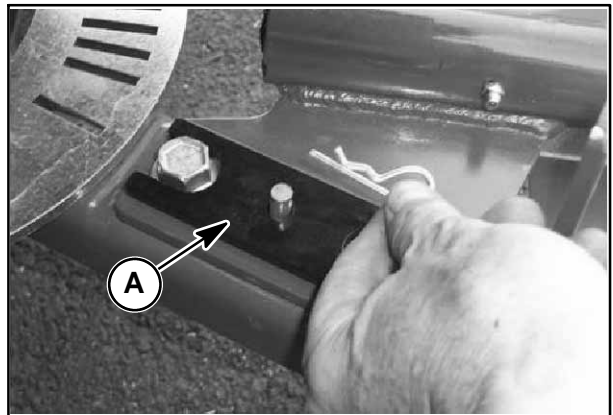
11. Torque the rear bolt and the front nut to 65 lbs/ft.



137

12. Install the lock plate, A, as shown over the bolts.

Note: If the lock plate does not fit over the bolt heads, tighten the hardware until the lock plate fit the hardware.



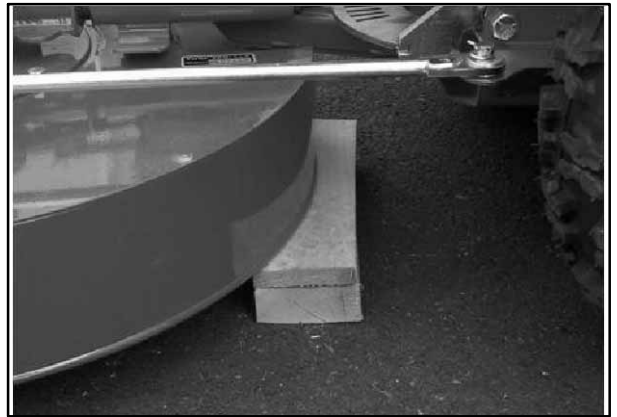
138

13. Install the hair pin as shown.



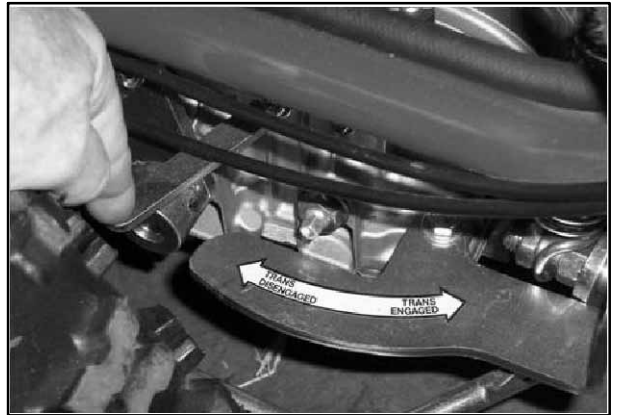
139

14. Place a 2 x 4 under the deck as shown.



140

15. Disconnect the transmission by placing the lever fully forward as shown.



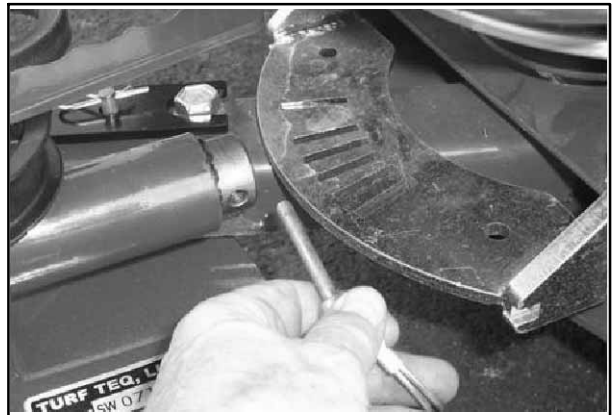
141

16. Push the tractor forward and inset the deck pin fully in the receiver.



142

17. Insert the pin to lock the deck to the receiver.



143

18. Slide belt under the idler.



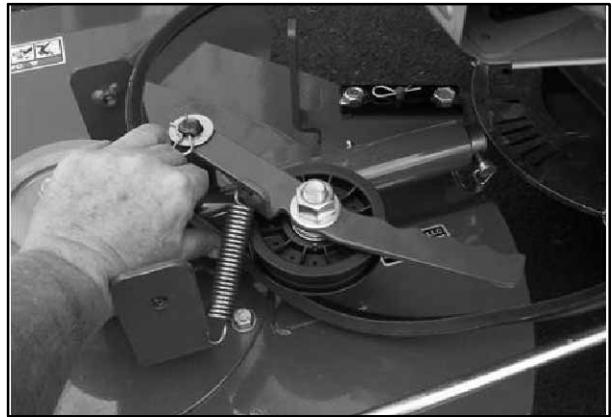
144

19. Position the white belt idler toward the belt until the spring pulls it overcenter.



145

20. Install the belt by sliding it between the pulley and the frame.



146

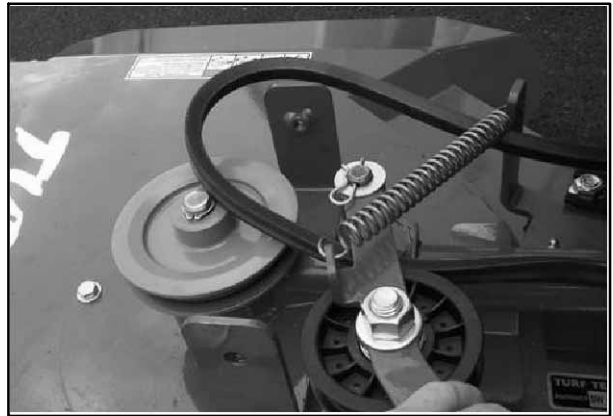
21. Attach the spring to the anchor arm as shown.



147

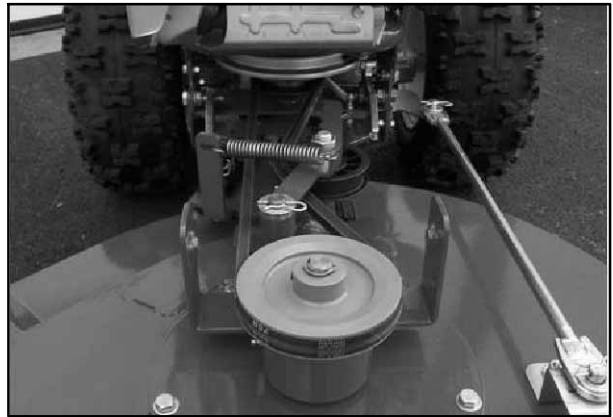
22. Pull on idler arm to remove belt tension.

23. Install the belt on the pulley.



148

24. Release the idler arm and check the belt if seated in the pulley.

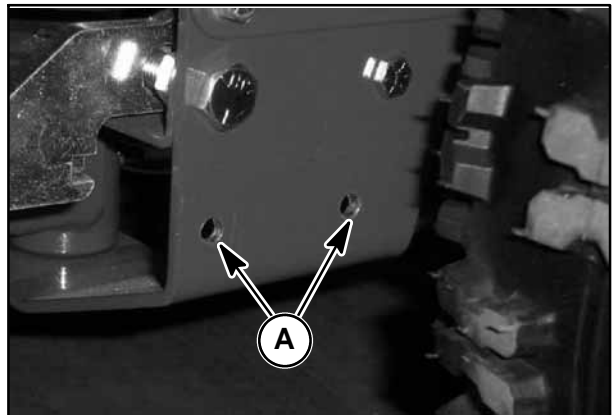


149

25. Check that your frame has the two holes, A, as shown for the bracket to attach.

Note: If the holes are not present proceed to the next step.

Note: If the holes are present proceed to step 33.



150

26. Jack up the left side of the tractor.

Note: Use a jack stand or blocking under the left axle housing to support the tractor.



151

27. Remove the C clip that holds the left wheel on the axle.



152

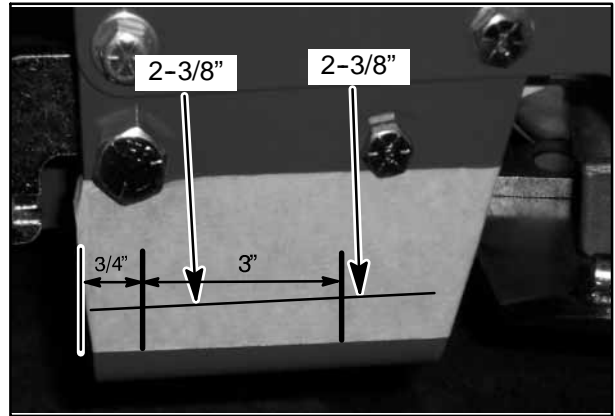
28. Remove the left wheel and tire.



153

29. Mark the hole locations as shown.

30. Drill two 11/32 inch holes where the lines intersect.



154

31. Reinstall the left wheel, and secure with the C clip.



155

32. Remove the jack and blocking.



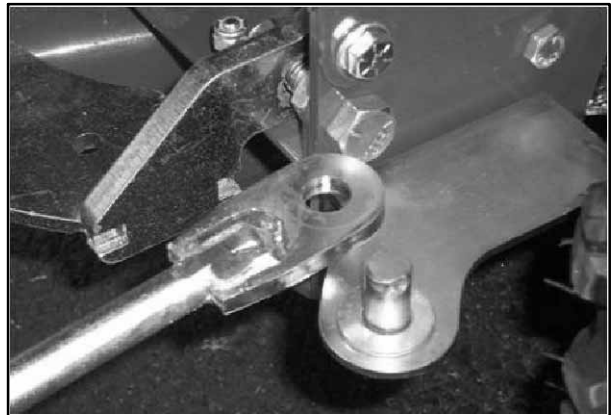
156

33. Install the bracket and tighten the hardware to 25 lbs/ft.



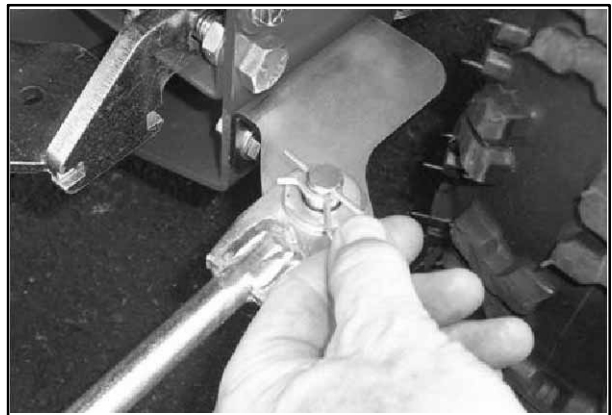
157

34. Install a flat washer as shown.
35. Install the link arm over the pin.



158

36. Install a flat washer.
37. Insert the slip pin as shown to secure the link arm.



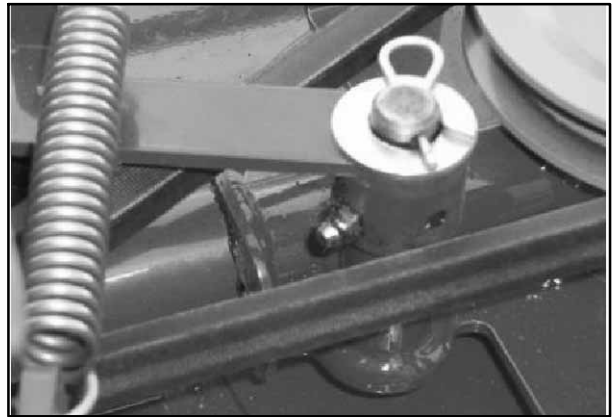
159

38. Grease the deck pivot point at the zerk shown. Apply grease until grease pushes out between the joint.



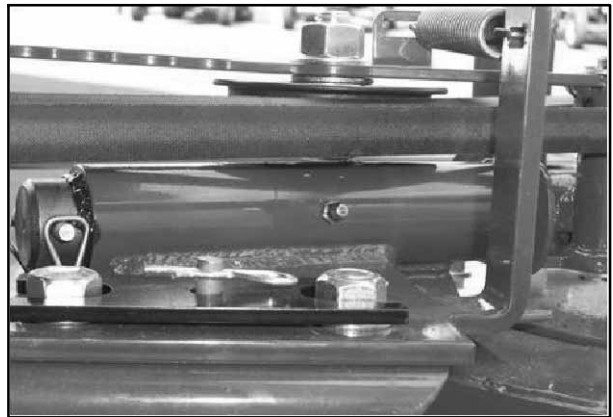
160

39. Grease the idler pivot point until grease pushes out between the joint.



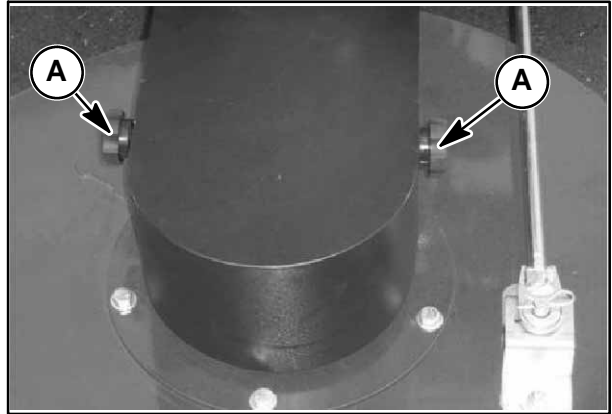
161

40. Grease the deck pivot zerk until grease pushed out of the joint.



162

41. Install the belt shield and tighten the two securing knobs, A.



163

42. Attach the spark plug wire to the spark plug.



164

43. Position the transmission level full rearward in the engaged position detent.



165



WARNING: Read the entire operator's manual before operating the Brush Cutter.

Operate the Brush Cutter and make sure everything is operating properly.

Correct any problem before using the Brush Cutter.



166

REMOVING THE BRUSH CUTTER FROM THE TRACTOR



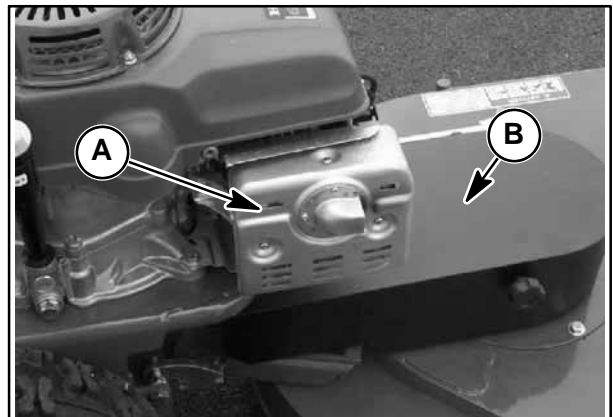
WARNING: Read the entire operator's manual before starting any work.

Removing the Brush Cutter is the reverse of installation.



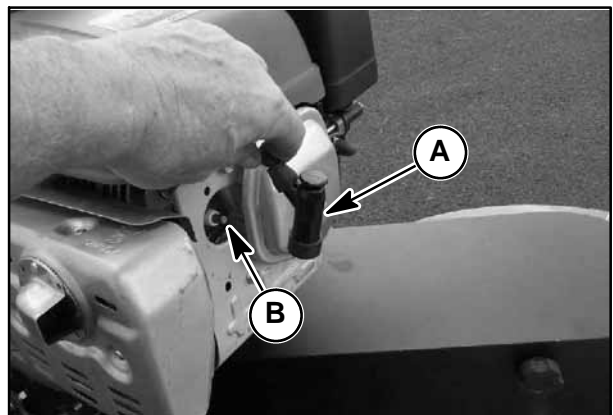
167

1. Allow the engine and muffler, A, to cool before working around the engine or to remove the main belt shield, B.



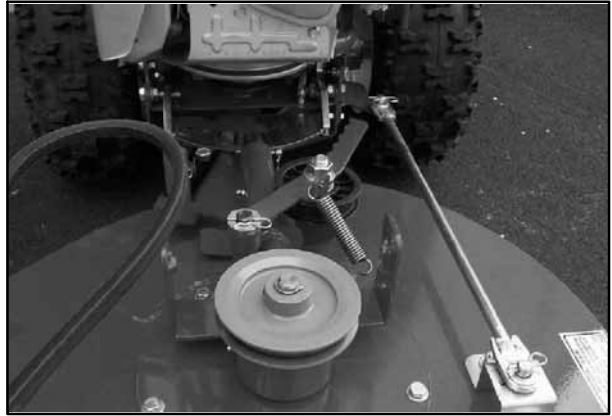
168

2. Remove the spark plug wire, A, from the spark plug, B.



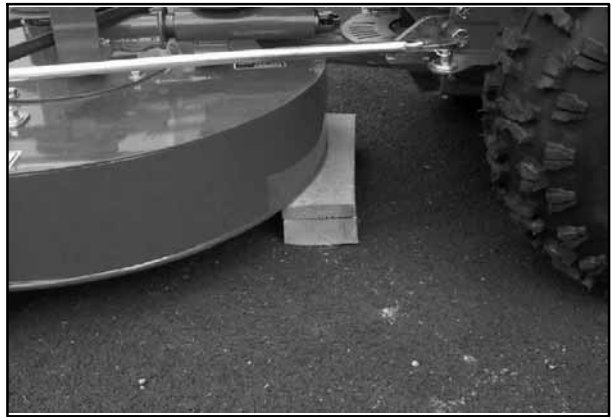
169

3. Remove the main drive belt as described in the "Replace Main Drive Belt" section.



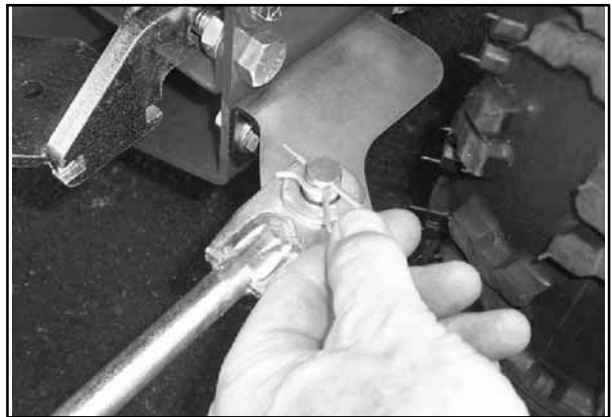
170

4. Support the rear of the deck with blocking.



171

5. Remove the pin from the link arm.



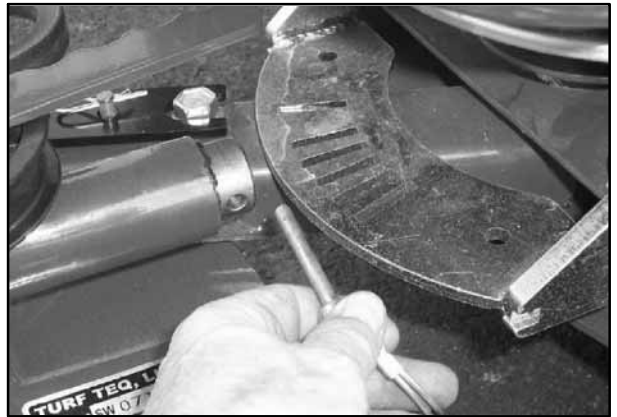
172

6. Disconnect the link arm from the pin.



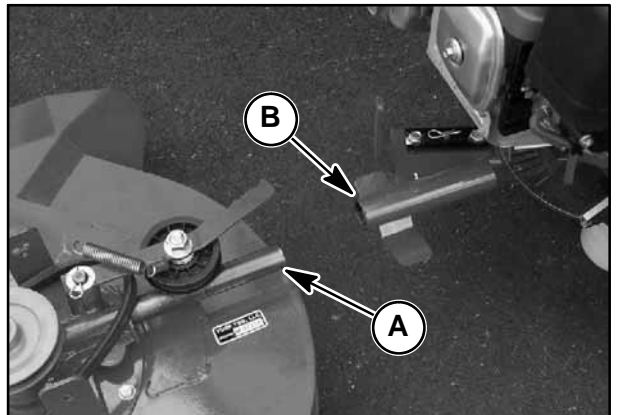
173

7. Remove the pin from the rear of the deck attaching rod.



174

8. Pull the tractor away from the deck until deck pin, A, is out of the receiver, B.



175

END OF SEASON STORAGE SERVICE

CLEAN THE ENTIRE MACHINE AND ENGINE

Thoroughly clean the machine and engine then blow dry with 50 PSI compressed air.

ENGINE SERVICE

1. Refer to the engine manufactures manuals for specific recommendations and procedures.
2. Drain the fuel tank.
3. Run the engine until the carburator runs out of fuel and the engine stops running.

MACHINE SERVICE

1. Lubricate all grease point as shown in the Lubrication Section.
2. Lubricate all linkage pivot points.

3. Spray exposed cables with a fluid lubricant to prevent binding and rust.
4. Examine belt for damage and replace as required.
5. Check the condition of all shields and replace as required.
6. Check safety decals and replace as required.
7. Check all bearing for bearing condition. Replace any loose bearings.
8. Check condition of the blade and replace as required.
9. Clean the bottom of the deck to prevent the deck from rusting.

SPECIFICATIONS

ENGINE	Honda – GXV390K1 13.0 HP
FUEL TANK	1.0 US Gallon
OPERATING SLOPE	Maximum operating slope 20 degrees
TRANSMISSION	Hydrostatic infinite variable control
GROUND SPEED	0 – 4.2 mph
WEIGHT	380 Lbs.
DIMENSIONS	42" W x 45" H x 76" L
BLADE WIDTH	26"
DECK WIDTH	28"
CUTTING HEIGHT	2-3/4" or 3-3/4"
DECK OSCILLATING	12 degrees right and left
SKIDS AND PUSH BAR	Adjustable for cut height Replaceable
DRIVES	Engine mounted clutch/brake
TIRES	Rear = 18 x 6.5 heavy 4-Ply lugged
ATTACHMENT ARM	Variable angle 0 to 18 degrees to the left Deck can be positioned up to 12 inches outside the left handle bar
CONTROLS	Variable speed control lever Implement positioning lever Differential lock Park Brake – optional
FRAME	Heavy formed tube mainframe

BEFORE EACH USE

1. Check brush cutter daily for loose, bent, broken, or missing parts.
2. Observe brush cutter's general condition, noting points that may need attention.
3. Check blade to be sure no foreign objects such as wire or weeds are wrapped around it.
4. Make certain drive line shields are in place and in good condition.
5. During operation, listen for abnormal sounds which might indicate loose parts, damaged bearings or other damage. Correct any problem immediately.

AFTER EACH USE

1. Clean all debris from brush cutter especially on the blade and deck.
2. To prevent rusting, touch up any spots where paint may have worn off.
3. Store in a clean, dry place.

TROUBLESHOOTING

SYMPTOM	POTENTIAL CAUSE	REMEDY
Blade does not turn.	Tractor attachment clutch is not engaged.	Engage tractor Attachment Drive. Control and Brake Lever
	Obstruction jammed between the rotor and frame.	Clear obstruction from the blade as detailed in the manual.
Blade stalls too easily.	Cutting height too deep.	Increase cutting height.
	Ground speed too fast.	Reduce ground speed.
	Main Drive Belt is slipping.	Replace Main Drive Belt.
	Blade not sharp.	Sharpen blade.
	Blade installed backward so blunt end of blade enters crop first.	Install blade so cutting portion of the blade enters crop first.
	Blade not tight on shaft.	Tighten nut to 90 LBS/FT.
	Main drive clutch is slipping.	Adjust main drive clutch cable tension.



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