

Turf Teq, LLC



OPERATOR'S MANUAL



SuperPivot

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Congratulations!

Thank you and congratulations on your purchase of a new Turf Teq Sidewindert - Super Pivot!

We are confident that your Sidewindert - Super Pivot will be one of the most gratifying pieces of equipment you will ever own. As a result of your investment in the Sidewindert - Super Pivot, you will eliminate the need for back-breaking work done with shovels and you will see an incredible 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 Sidewindert - Super Pivot!

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

Total Customer Satisfaction is our Goal

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

- The Sidewindert - Super Pivot 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 Sidewindert - Super Pivot 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 Sidewindert - Super Pivot available when contacting our customer service department:

Name of Purchaser _____

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 Product 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.

Turf Teq 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, 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 _____

Model Number _____

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.

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Turf Teq, LLC

WARRANTY AND LIMITATION OF LIABILITY

(Turf Teq Warranty Registration Copy - Page 2)

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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 _____

Model Number _____

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
P.O. Box 127
New Holland, PA 17557**

BLADE INFORMATION

BED OPENER BLADE

The *Bed Opener* is the ideal tool to use when opening a new bed or preparing to remulch an existing bed. The aggressive cutting action of the *Bed Opener Blade* creates a clean, contoured edge up to 4.5" deep and deposits the pulverized soil back into the bed. The bed is ready to mulch with no further clean-up effort required.



1

TRENCHING BLADE

Trenching action is useful for performing many different tasks. Aggressive *Trenching Blades* are available. The 16" diameter blade trenches 1-5/8" wide and up to 5" deep. The 21" diameter blade trenches 1-1/4" wide and up to 8" deep.



2

GROOMING BLADE

The *Grooming Blade* is ideal for edging existing mulch beds or manicured edges where minimal disturbance of the bed or edge plants is preferred. The *Grooming Blade* slices the edge up to 5" deep and is capable of riding up over roots or other obstructions. Because it neatly slices the edge it does minimal disturbance to the planting bed and can be used several times a season to groom a bed without remulching. The material sliced at the edge of the bed can be easily removed, if needed, to create a clean, fresh bed edge. The *Grooming Blade* can only be used with the *Sidewindert - Super Pivot* model.



3

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 tractor.
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. Check for buried cables, wires, pipes or foreign objects before starting to open a bed, groom a bed or to trench. Do not operate the machine over objects.

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.

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 off and the machine outdoors.
6. Do not smoke while handling gasoline.
7. Keep any type of open flame away from the machine.
8. Check the bolt torque of the groomer blade, bed opening blade or trenching blade before operating the machine.
9. Make sure the correct shield is installed for the blade.
10. Be sure the main drive belt is routed correctly to ensure the correct rotation for the blade.
11. Only operate the bed opener or trenching blade with the blade parallel to the right rear wheel.
12. Operate the groomer blade with the attachment arm pivoted from 10° to 40°.

OPERATING THE MACHINE SAFELY

1. Shut off the engine and apply the parking brake when the machine is not in use.
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 blades 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.
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 arm 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 attempt to backup with the attachment on or in the ground.
20. Engage the attachment drive before lowering the attachment to the ground.
21. Keep feet and hands away from cutting blade.

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 to cool before working around the engine and muffler.



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.



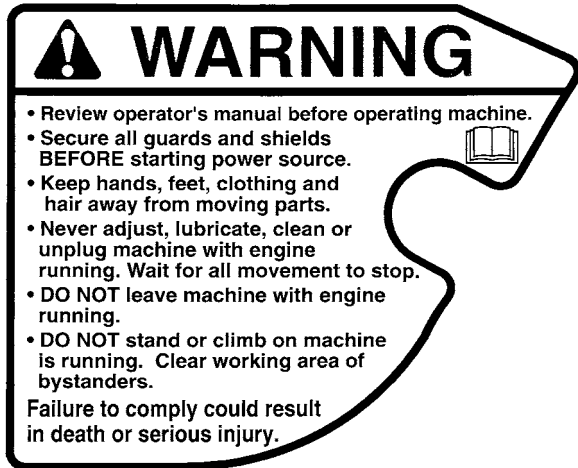
DANGER: THE WORD “DANGER” IS USED WHERE YOU ARE AT RISK OF BEING KILLED OR SERIOUSLY INJURED IF YOU DO NOT FOLLOW THE OPERATING INSTRUCTIONS IN CONNECTION WITH A SERIOUS HAZARD.

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.

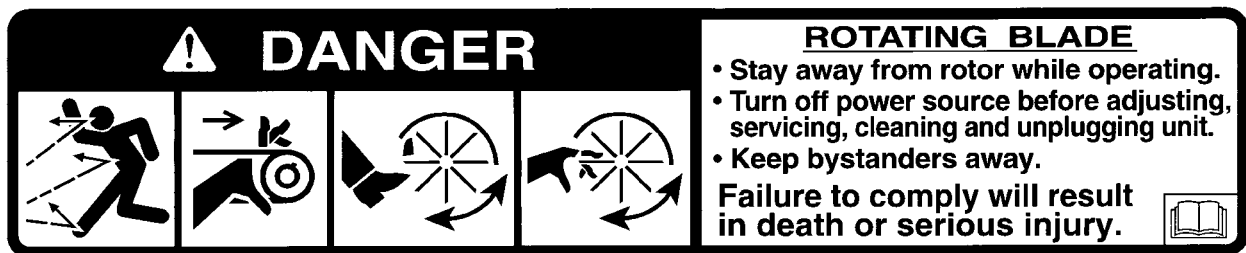
Keep the decals clean and legible at all times.



Located on the control console.



Located on front dolly wheel support.



Located on the blade cover.

SERIAL NUMBER LOCATIONS

SIDEWINDER™ - SUPER PIVOT SERIAL NUMBER LOCATION

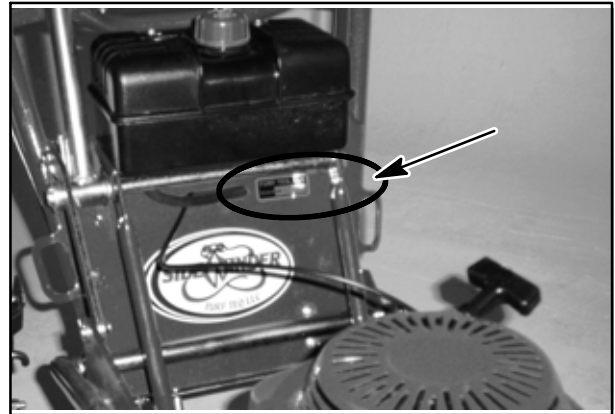
The serial number is located below the fuel tank as shown.

The serial number will be require when ordering parts.

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

Model _____

Serial Number _____



4

ENGINE SERIAL NUMBER LOCATION

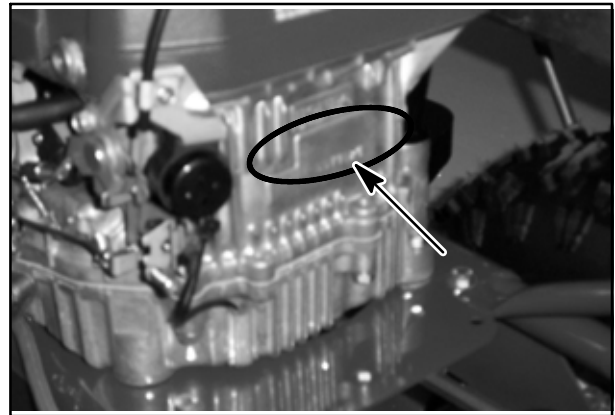
The Honda engine serial number is located on the backside of the engine as shown.

The serial number will be require when ordering parts.

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

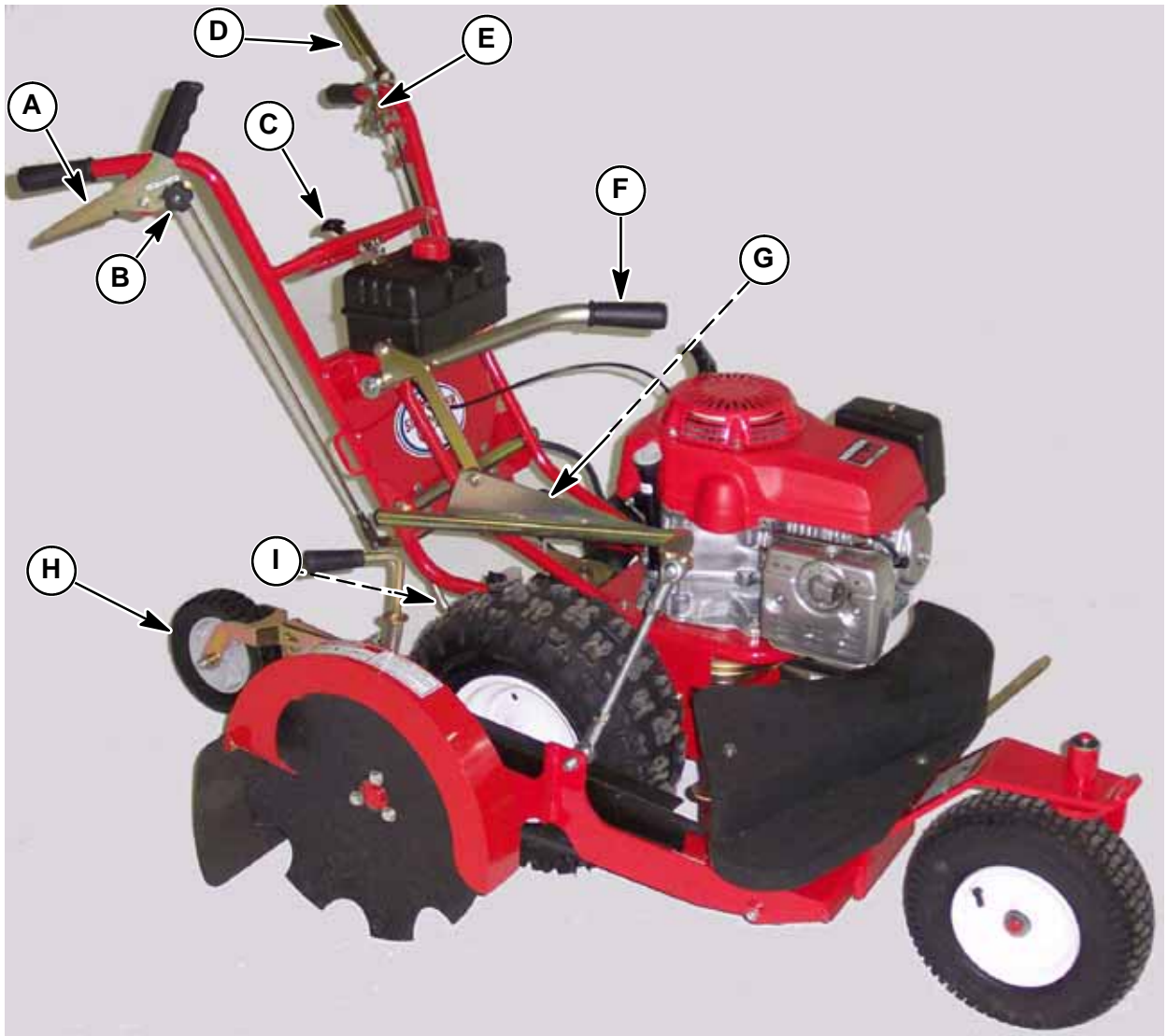
Manufacturer _____

Serial Number _____



5

CONTROL LOCATIONS - OVERVIEW



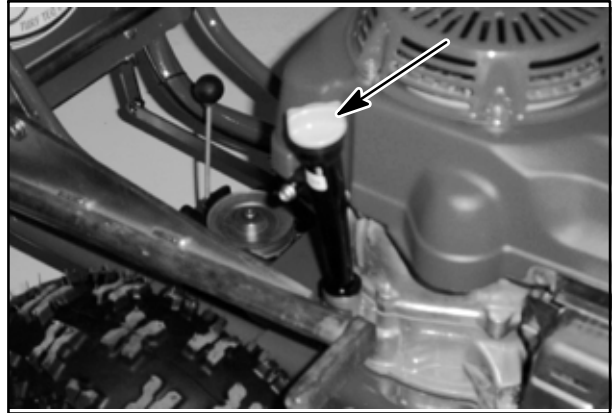
- A. Hydrostatic transmission control lever
- B. Adjustable speed control
- C. Throttle control
- D. Attachment drive control and brake lever
- E. Swing control lever

- F. Attachment height control mechanism
- G. Tow valve handle
- H. Self-aligning adjustable depth wheel
- I. Park brake lever

DAILY CHECKS TO PERFORM BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

1. Place the machine on a level surface then remove the oil dipstick.
2. Check the oil level as indicated in the engine owner's manual and fill with the recommended motor oil.



6

CHECK FUEL LEVEL

1. Remove the fuel tank cap.
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

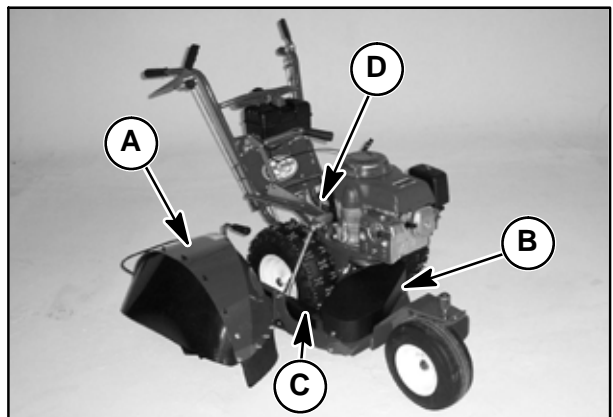


7

CHECK THAT ALL SHIELDS ARE INSTALLED AND ATTACHING HARDWARE IS TIGHT

1. Check that the attachment blade shield is installed, A.
2. Check the main drive belt shield, B.
3. Check the attachment blade belt shield, C.
4. Check the hydrostatic drive belt shield, D.

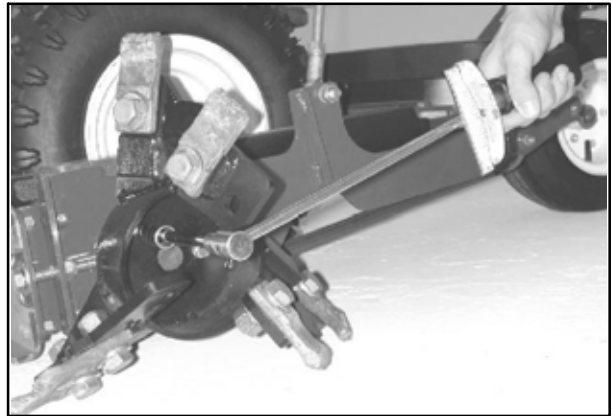
NOTES: DO NOT OPERATE THE MACHINE WITH LOOSE OR MISSING SHIELDS. REPLACE MISSING SHIELDS IMMEDIATELY.



8

CHECK THE BLADE AND ATTACHING HARDWARE

1. Remove the blade shield as described in the Changing Attachment Blade section.
2. Clean the shield and blade of dirt.
3. Check the blade for damage and wear.
4. Torque the 3 attaching bolts to 34 lb/ft. with a torque wrench.



9

5. Torque the carbide tipped teeth attaching bolts to 200 lb/ft.

NOTES: REPLACE DAMAGED AND WORN BLADES IMMEDIATELY. A TORQUE WRENCH MUST BE USED TO TORQUE THE ATTACHING BOLTS AND CARBIDE TIPPED TEETH.



10

CHECK TIRE PRESSURES

Check tire pressures in the three tires and inflate to 14 psi.

ENGINE OPERATION

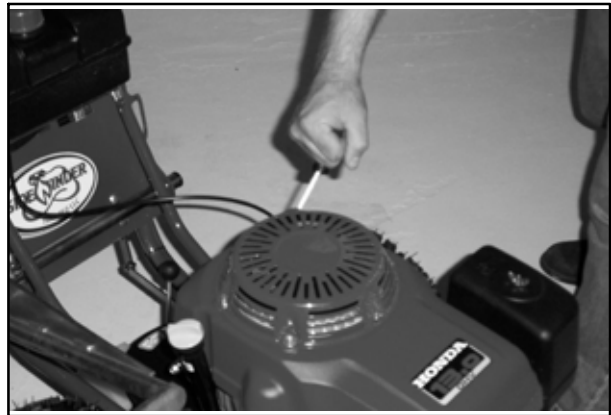
STARTING A COLD ENGINE

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



11

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.



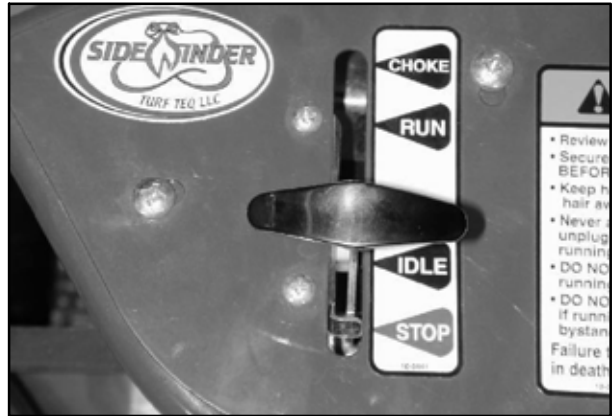
12

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



13

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



14

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



15

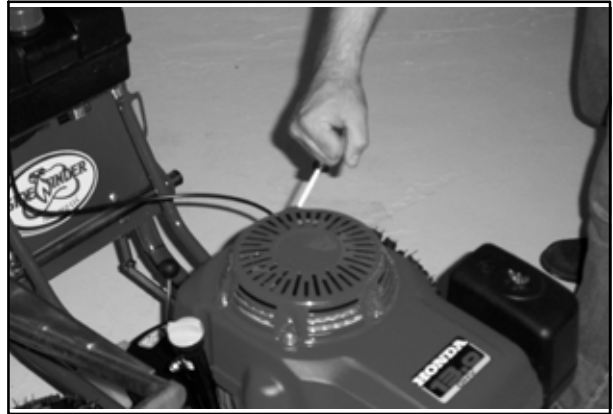
STARTING A WARM ENGINE

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



16

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.



17

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



18

STOPPING THE ENGINE

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



19

-
- 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.



PARKING THE MACHINE

When parking the tractor for any period of time, use the following procedure.

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



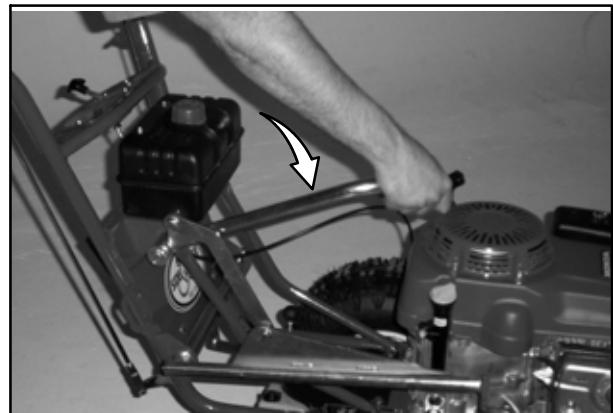
21

2. Place the PARK BRAKE to the ON position.



22

3. Lower the HEIGHT CONTROL LEVER so the attachment is positioned on the ground.



23

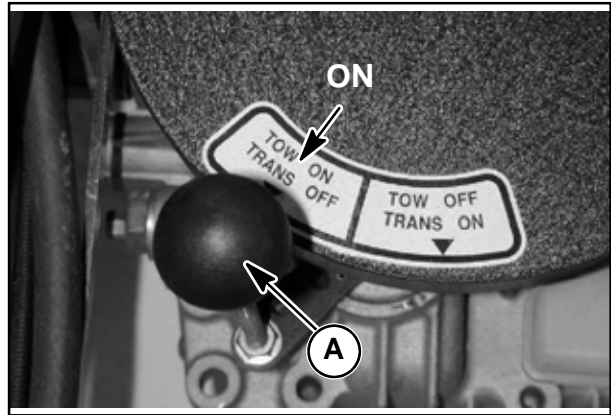
OPERATING THE TOW VALVE

The TOW VALVE disengages the transmission so the machine can be moved when the engine is not running. This feature makes it easy to push or pull the machine for precise movement when the engine is not running.

TOW VALVE ON

When the TOW VALVE, A, is in the ON position as shown, the machine can be pushed or pulled without the engine running.

NOTE: When the TOW VALVE is in the ON position, the transmission will not propel the machine in forward or reverse when the engine is running and the hydrostatic control lever is activated.

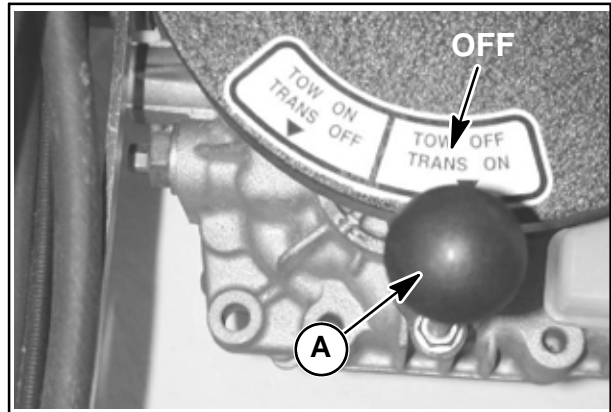


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TOW VALVE OFF

When the TOW VALVE, A, is in the OFF position as shown, the machine will be very hard to push or pull with the engine is not running.

NOTE: When the TOW VALVE is in the OFF position, the transmission will propel the machine forward or reverse when the engine is running and the hydrostatic control lever is activated.

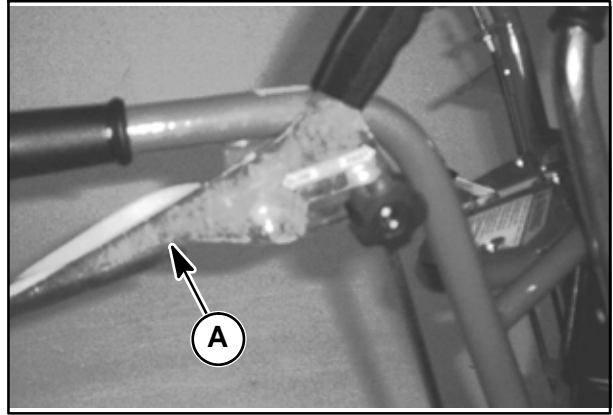


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OPERATING THE DIRECTIONAL CONTROLS

STOPPING MOVEMENT WITH ENGINE RUNNING

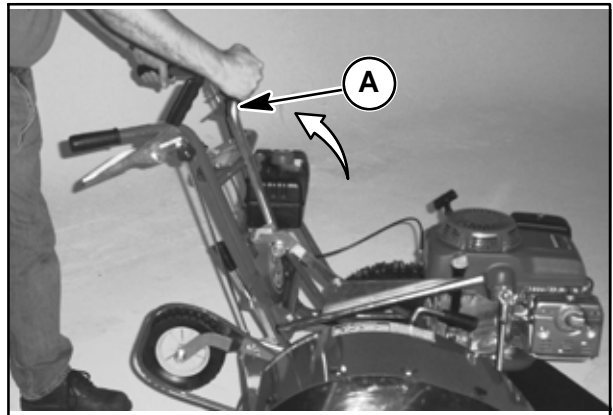
1. RELEASE the HYDROSTATIC CONTROL LEVER, A. The lever will automatically go the neutral position as shown.
2. When the hydrostatic lever is in the neutral position the machine will not move.



26

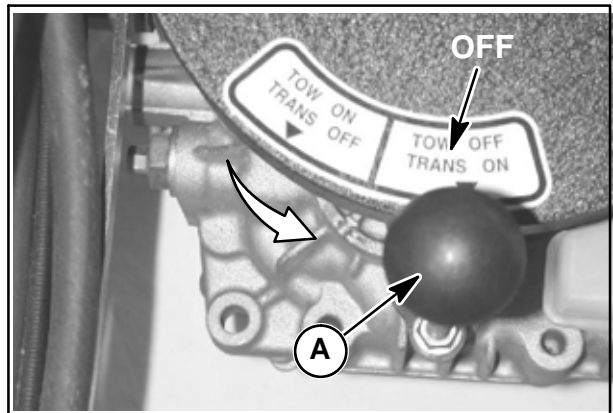
PRELIMINARY STEPS TO MOVING THE MACHINE IN ANY DIRECTION WITH ENGINE ON

1. Raise the attachment by lifting the attachment HEIGHT CONTROL LEVER, A, to the FULLY RAISED position as shown.



27

2. Place the TOW VALVE KNOB, A, in the TOW OFF position as shown.



28

3. Start the engine using the procedure described in the ENGINE OPERATION Section.



29

4. Place the PARK BRAKE in the OFF position.



30

VARIABLE SPEED CONTROL ADJUSTMENT

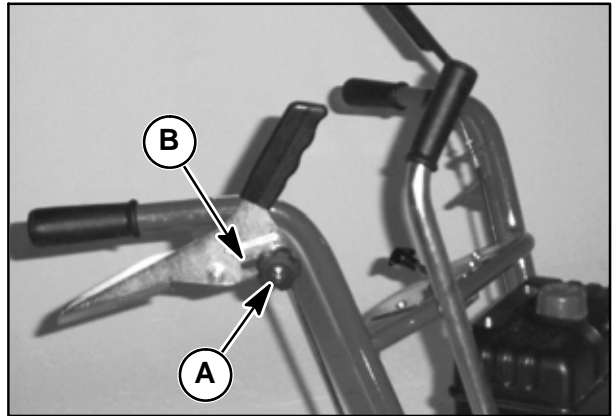
1. Adjust to slowest speed.

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, while learning to operate the machine and when operating in confined spaces.

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



31

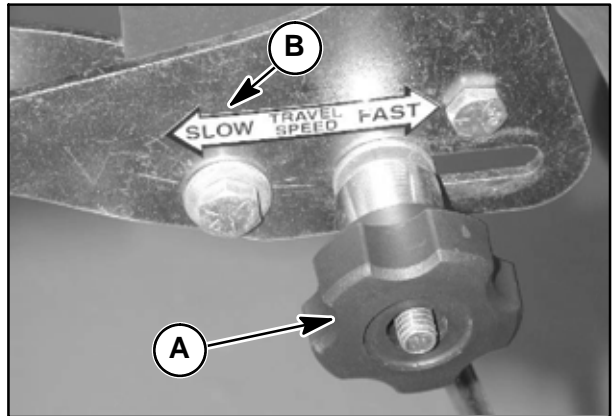
ADJUSTING THE VARIABLE SPEED CONTROL

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

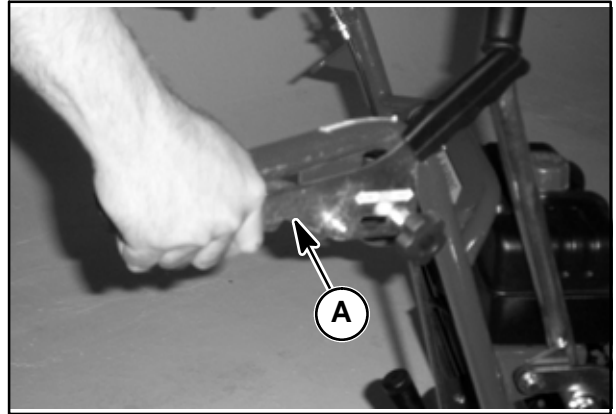
Moving the VARIABLE SPEED CONTROL KNOB toward the SLOW position decreases hydrostatic control level effort.



32

FORWARD DIRECTION

1. Complete the 4 steps in the PRELIMINARY STEPS TO MOVING THE MACHINE if not already completed.
2. SLOWLY apply pressure and PULL UP on the HYDROSTATIC CONTROL LEVER, A, as shown.
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.

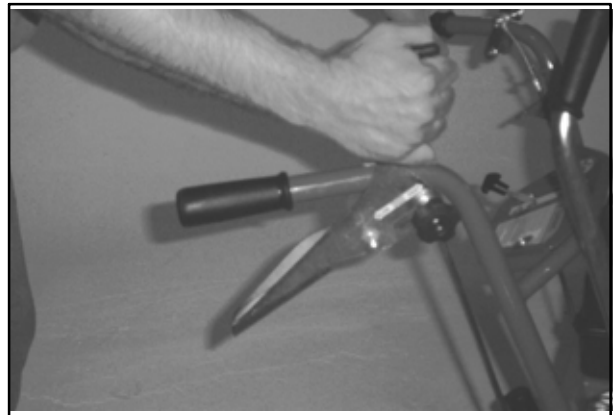


33

REVERSE DIRECTION

1. Complete the 4 steps in the PRELIMINARY STEPS TO MOVING THE MACHINE if not already completed.
2. SLOWLY apply pressure and PULL BACK on the HYDROSTATIC CONTROL LEVER as shown.
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.

NOTE: Do not back up with the attachment on the ground.



34

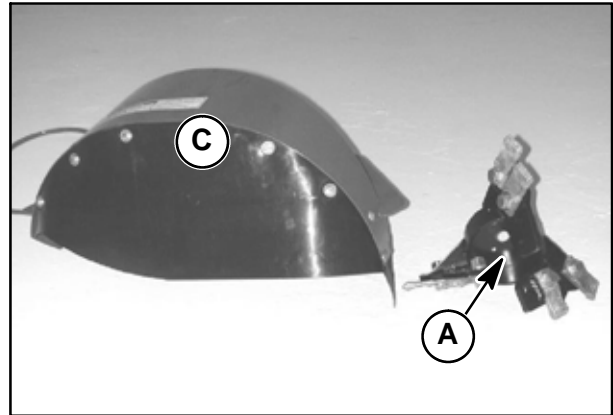
BLADE AND SHIELD COMBINATIONS FOR USE WITH THE SIDEWINDER™ - SUPER PIVOT



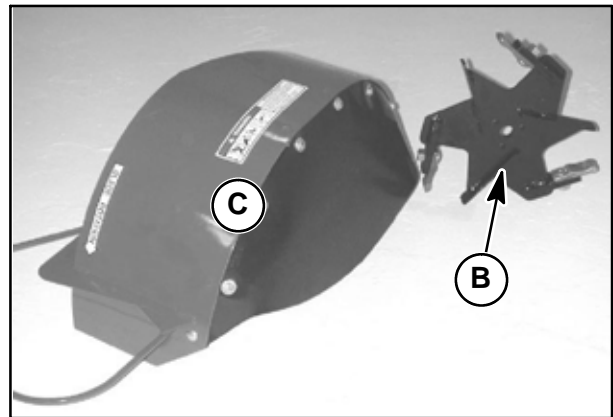
WARNING: Shield and blades **MUST** be used in specified combinations only. Failure to use the correct shield for the blade being used may cause personal injury or machine damage.

BED OPENER AND TRENCHING BLADE SHIELD

The Bed Opener blade, A, and Trenching blade, B, must be used with the Opener/trenching shield, C, as shown.



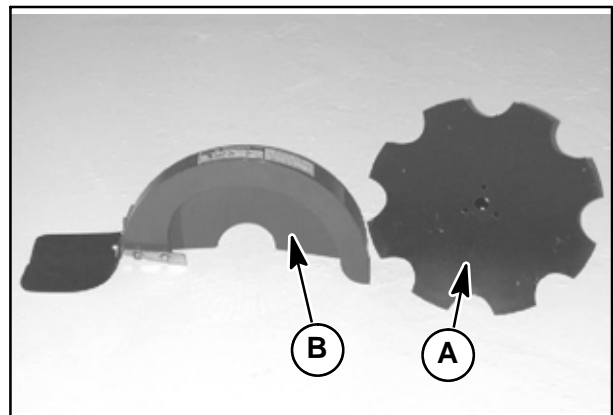
35



36

GROOMING BLADE SHIELD

The Grooming blade, A, must be used with the Grooming shield, B, as shown.



37

MAIN DRIVE BELT ROUTING FOR SPECIFIC APPLICATIONS

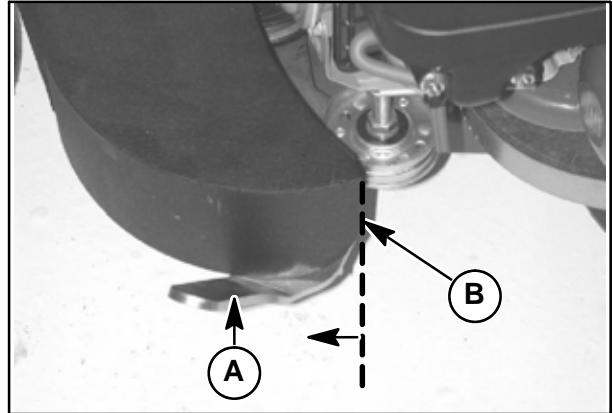


WARNING: The Main Drive Belt **MUST** be routed as specified for the specific application or the blade will turn in the wrong direction, which could cause personal injury or machine damage.

TENSION HANDLE LOCATION

BED OPENING OR TRENCHING POSITION

If the tensioning handle, A, is forward of the end of shield, B, the belt is routed for Bed Opening and Trenching.

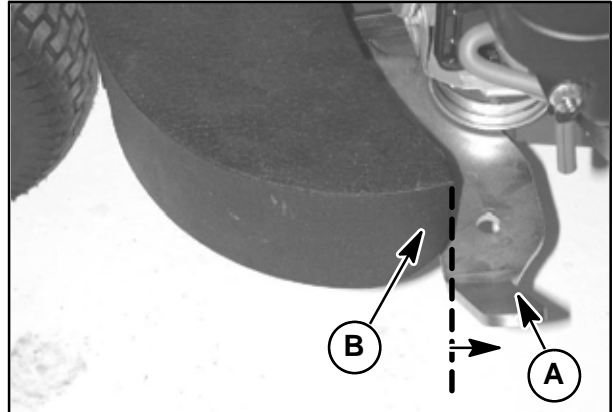


38

GROOMING POSITION

If the tensioning handle, A, is rear of the end of shield, B, the belt is routed for Grooming.

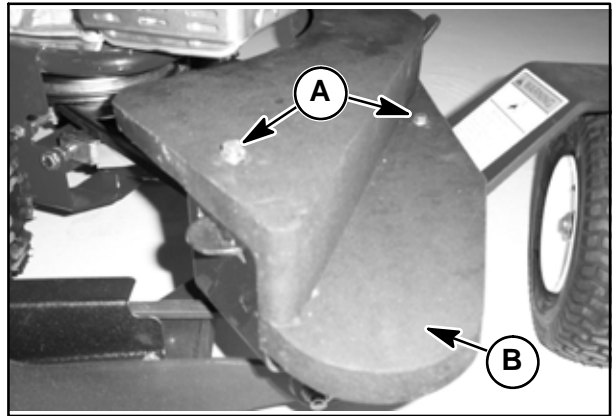
NOTE: If the belt is routed incorrectly or if you are not sure about the tensioning handle location proceed to the function you want to perform and route the belt as shown.



39

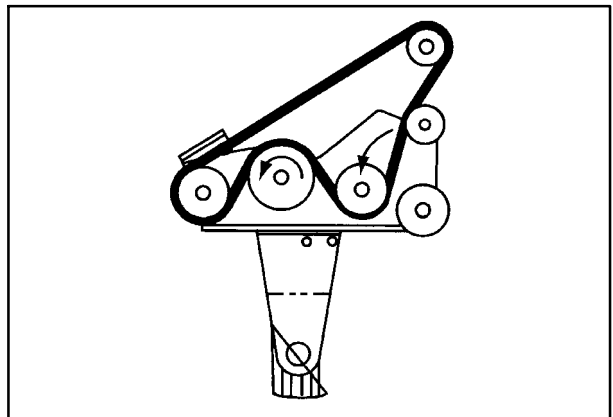
GROOMING – MAIN DRIVE BELT ROUTING

1. Remove the two shield retaining bolts, A, then remove shield, B.



40

2. Route belt as shown.

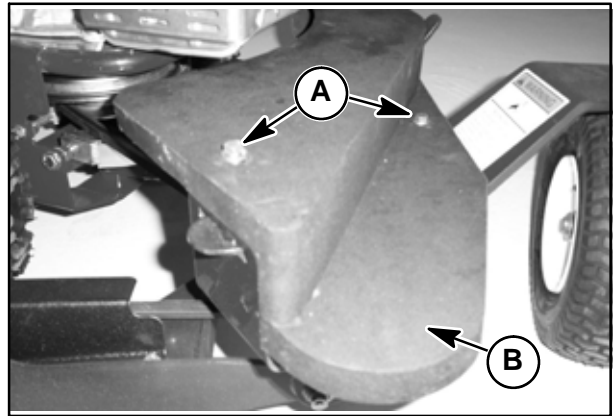


41



42

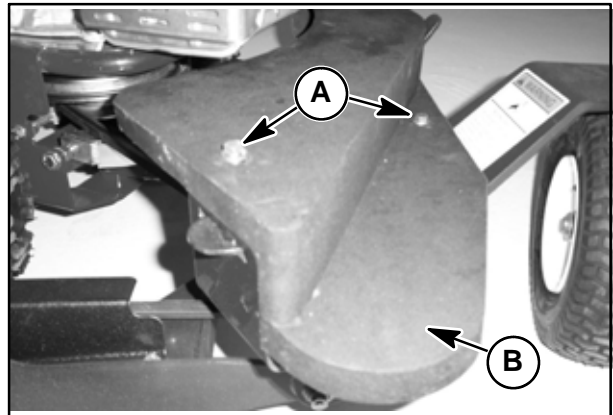
3. Install shield, B, and the two retaining bolts, A.
4. Torque bolts to 20 lbs./ft.



43

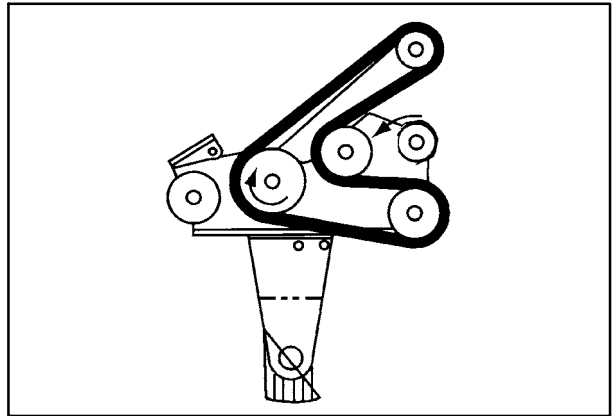
BED OPENING AND TRENCHING – MAIN DRIVE BELT ROUTING

1. Remove the two shield retaining bolts, A, then remove shield, B.

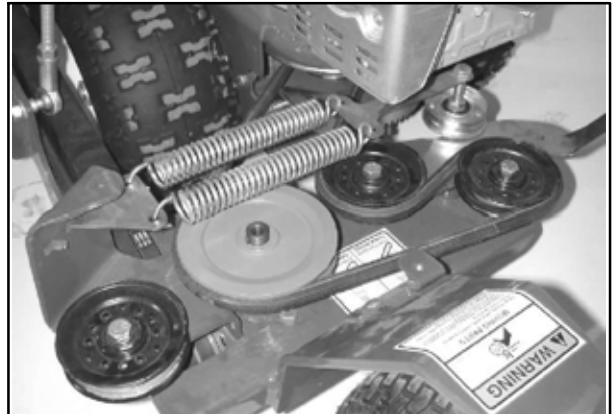


44

2. Route belt as shown.

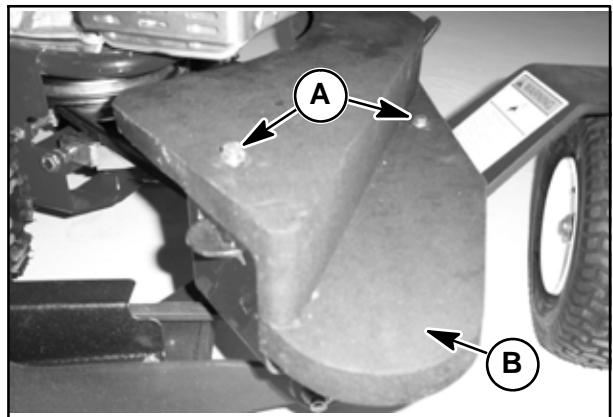


45



46

3. Install shield, B, and the two retaining bolts, A.
4. Torque bolts to 20 lbs./ft.



47

POSITIONING THE ADJUSTABLE ANGLE SIDEWINDER™ - SUPER PIVOT ATTACHMENT ARM

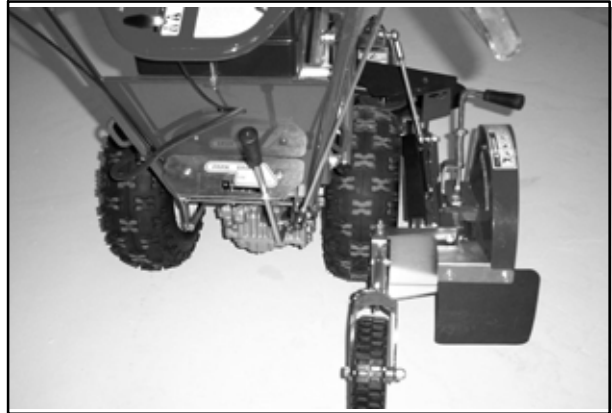
ATTACHMENT ARM POSITION WHEN TRANSPORTING THE SIDEWINDER™ - SUPER PIVOT WITH THE ATTACHMENT ARM RAISED

Position the attachment arm parallel to the right rear wheel as shown when moving or transporting the machine with the Attachment Arm raised. This position provides maximum vehicle stability.



WARNING: When transporting or moving the machine, the attachment arm must be positioned parallel to the right rear wheel as shown

NOTE: Only change the Attachment arm position when the Sidewinder™ - Super Pivot is on a level, hard surface and the engine is not running.



48

ATTACHMENT ARM POSITION FOR BED OPENER OR TRENCHING BLADE USE

The ATTACHMENT ARM must be positioned in the fully retracted position parallel to the right rear wheel as show.



WARNING: The attachment arm **MUST** be parallel to the right rear wheel, as shown, when using the Bed Opener blade and the Trenching blade. Personal injury and machine damage may result from operating the attachment arm in any position other than parallel to the right rear wheel when using the Beg Opener blade and the Trenching blade.

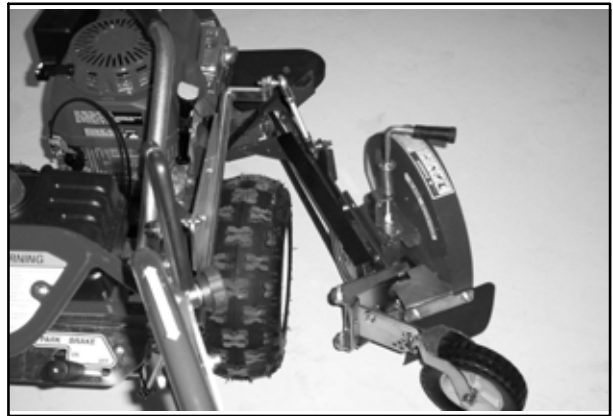


49

ATTACHMENT ARM POSITION FOR GROOMING BLADE USE

When using the **Grooming Blade**, the attachment arm must be swung out to approximately a 10 degree to 40 degree angle to the right rear wheel as shown.

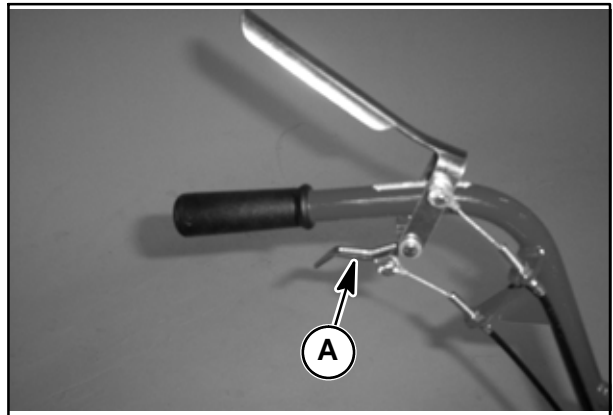
NOTE: Only change arm position when the Sidewinder™ - Super Pivot is on a level, hard surface.



50

SIDEWINDER™ - SUPER PIVOT SWING CONTROL LEVER

The swing control lever is shown at A.



51

ADJUSTING SIDEWINDER™ - SUPER PIVOT ATTACHMENT ARM POSITION

1. Stop the engine by positioning the throttle to the **STOP** position.



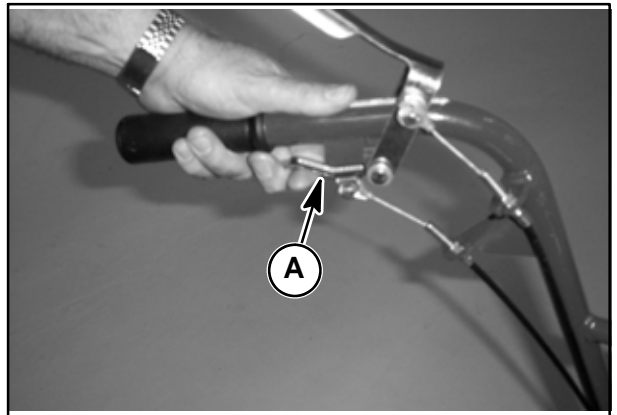
52

2. Lower the Attachment control lever to the down position so the attachment is resting on the ground.



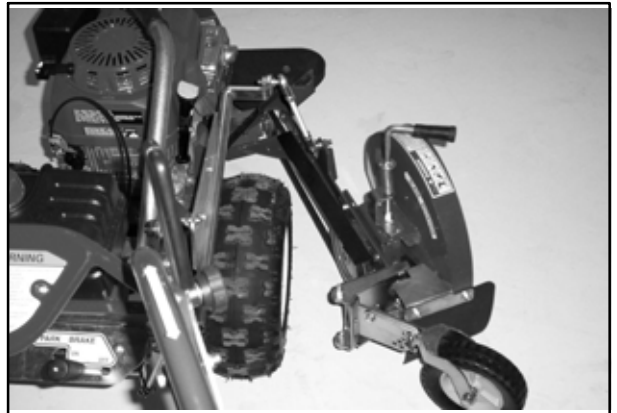
53

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



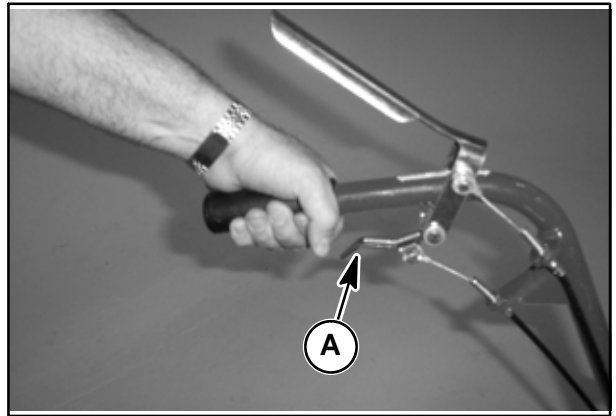
54

4. Push forward on the left handlebar while simultaneously pulling rearward on the right handlebar until the desired attachment angle is achieved.



55

-
5. Release the SWING CONTROL LEVER, A, and it will lock the arm in position.



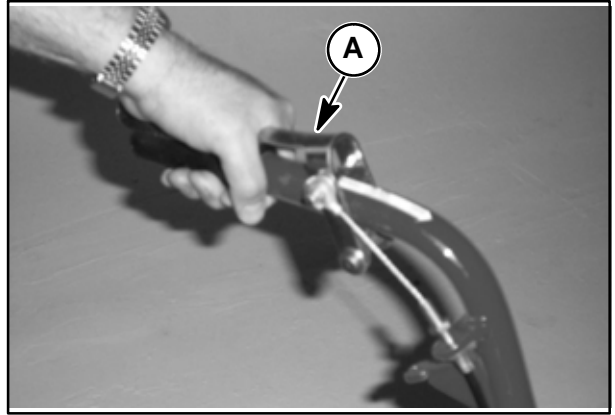
56

OPERATING THE ATTACHMENT

STARTING THE ATTACHMENT

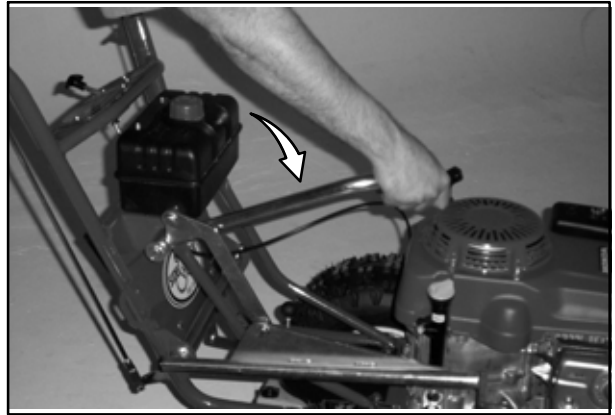
1. Raise attachment.
2. Start the engine and place the throttle to the run position as described in the STARTING THE ENGINE SECTION.
3. Depress the ATTACHMENT DRIVE CONTROL AND BRAKE LEVER, A, as shown. This releases the brake and engages the drive.

NOTE: Engage attachment before lowering onto the ground.



57

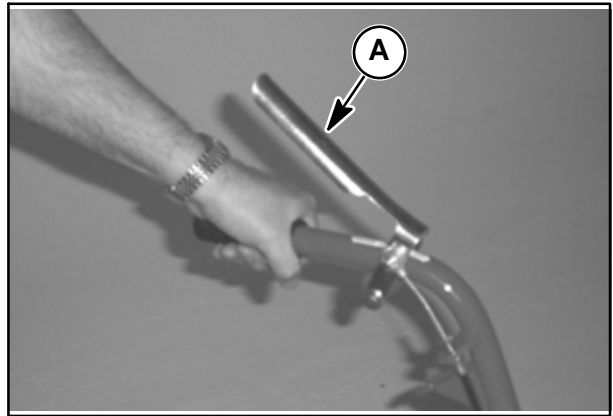
4. Lower the ATTACHMENT HEIGHT CONTROL LEVER as shown to lower the attachment on the depth control wheel.



58

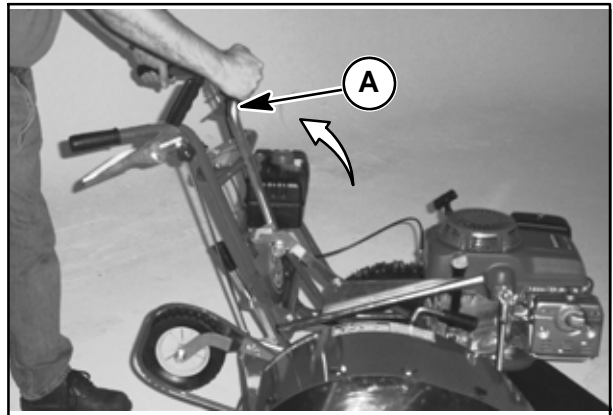
STOPPING THE ATTACHMENT

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



59

2. Raise the ATTACHMENT HEIGHT CONTROL LEVER as shown.



60

ADJUSTING THE DEPTH CONTROL WHEEL

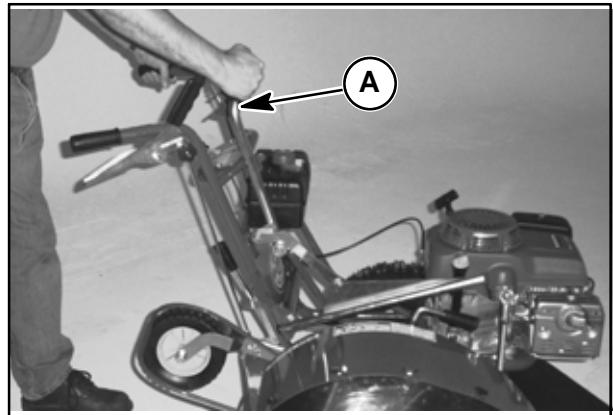
ADJUSTMENT PROCEDURE

1. Stop the engine by placing the throttle in the **STOP** position.
2. Place the PARK BRAKE in the ON position.



61

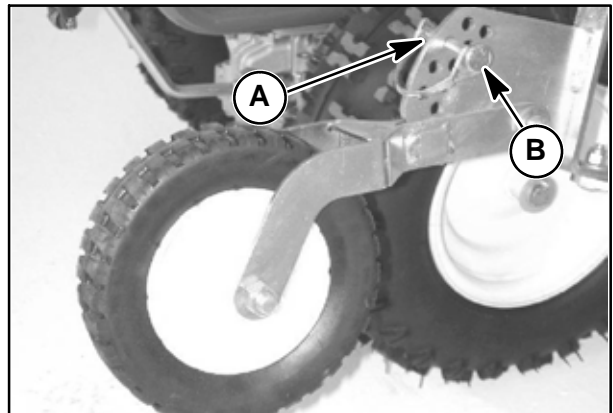
3. Raise the ATTACHMENT HEIGHT CONTROL LEVER as shown.



62

4. Remove clip, A, and pin, B, from the depth control bracket.
5. Move the wheel to the desired location.
6. Reinstall pin, B, and clip, A.

NOTE: Operate the attachment and repeat the adjustment procedure until the desired depth is obtained.



63

CHANGING ATTACHMENT BLADE

BLADE REMOVAL

1. Place the throttle in the **STOP** position and stop the engine.



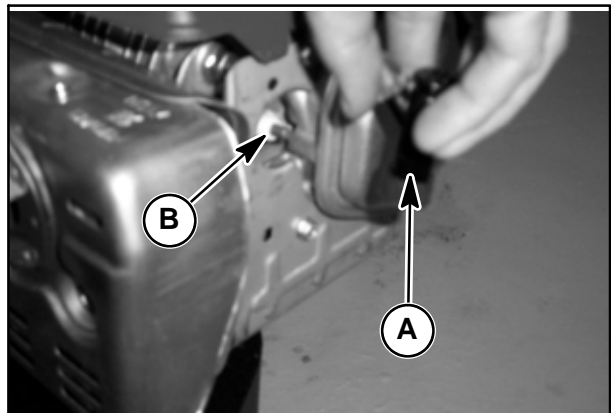
64

2. Place the PARK BRAKE in the ON position.



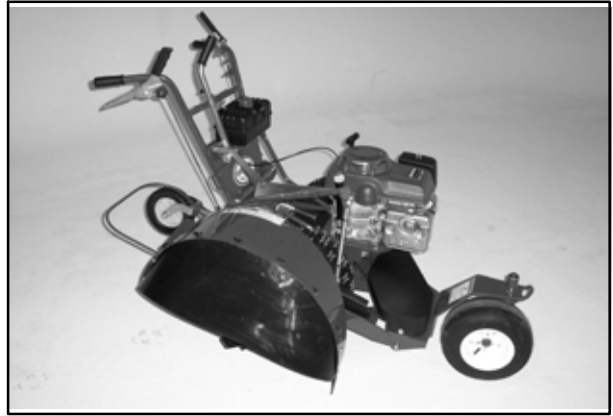
65

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



66

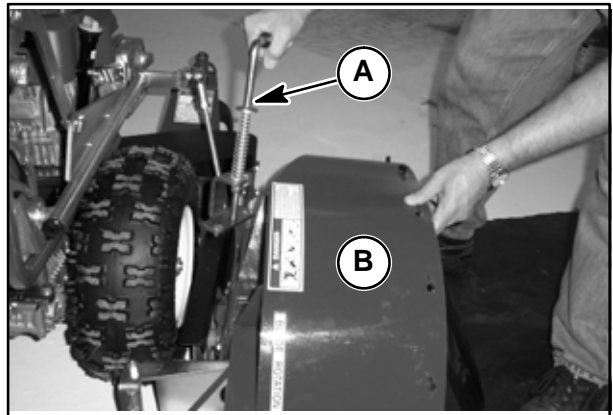
4. Lower the attachment to the ground and position the blade on the ground.



67

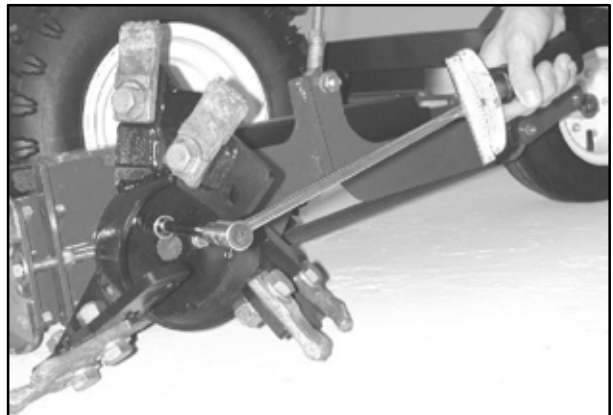
5. Remove the shield attaching bolt by turning the handle, A, counterclockwise.
6. Remove the shield, B, by lifting it up.

NOTE: The shield is heavy. Be sure to have a firm grip on the shield while loosening the clamping, A.



68

7. Remove the three blade attaching bolts then remove the blade.

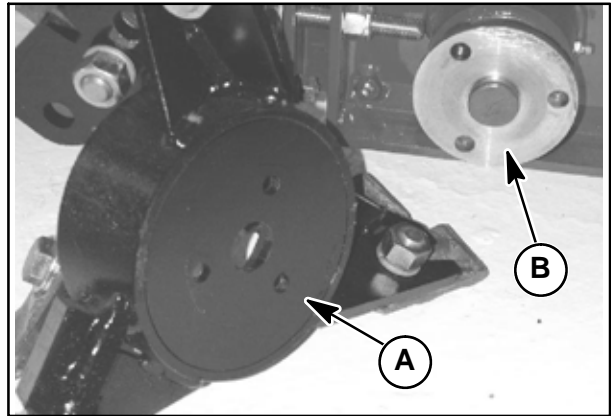


69

INSTALLING THE BLADE

1. Clean the mounting surface of the blade, A, and the mounting surface of flange, B.

NOTE: Be sure both surfaces are clean and free of any damage that would prevent the blade from seating on the flange.



70

2. Mount the blade and install the 3 mounting bolts. Torque each bolt to 34 lb/ft.



DANGER: A torque wrench must be used to torque the bolts. Improper torque could cause the bolts to loose or fail allowing the blade to come free causing personal injury.

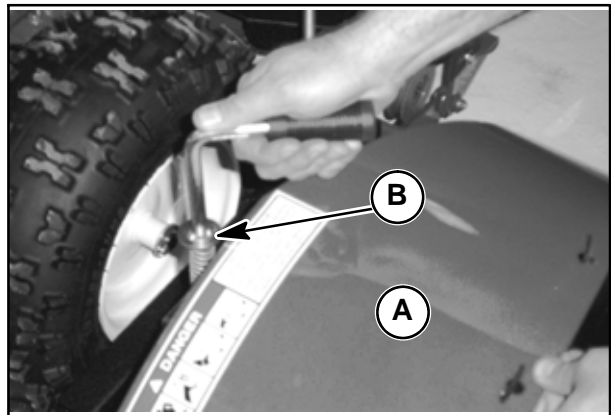


71

3. Install the shield, A, by inserting the shield pins in the mounting flange.

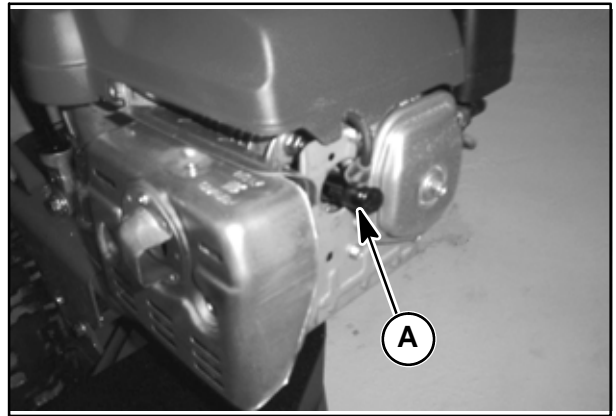
NOTE: The shield is heavy. Be sure to have a firm grip on the shield while loosening the lever.

4. Install the shield attaching bolt, B, by turning the handle clockwise.



72

5. Install the spark plug wire, A, on the spark plug.

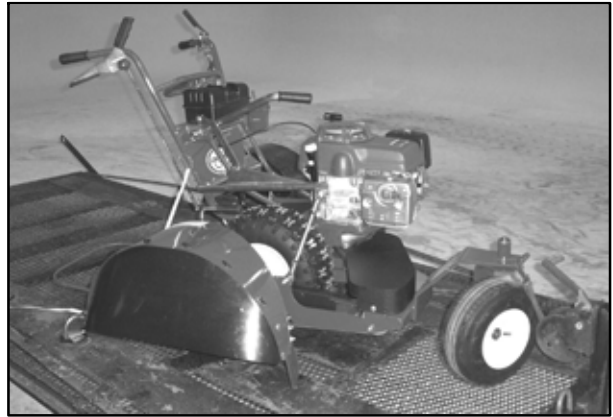


73

SECURING THE MACHINE FOR TRANSPORT

1. Position the machine on a trailer or other vehicle
2. Stop the engine.
3. Lower the attachment arm until the arm rests on the deck.

NOTE: *The attachment must be fully lowered during transport or the frame may be damaged.*



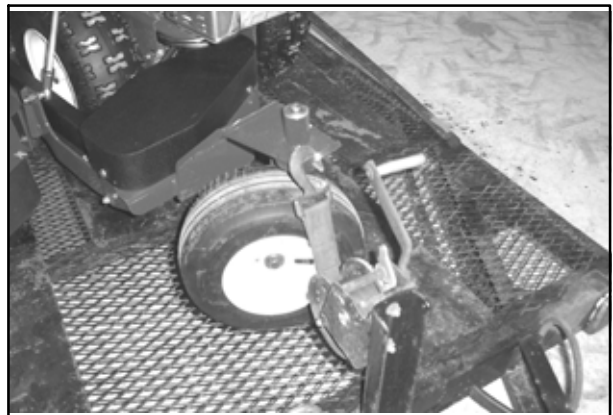
74

4. Set the PARK BRAKE to the ON position



75

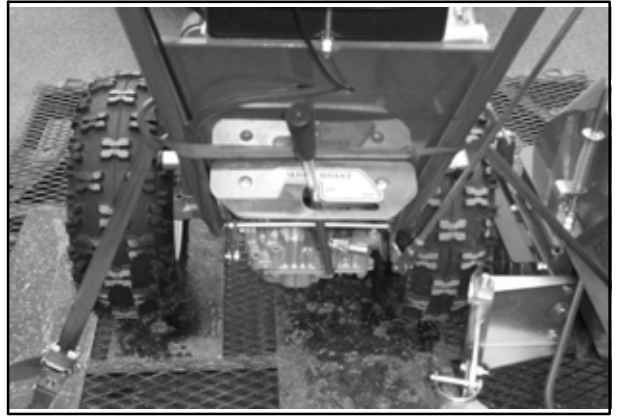
5. Use the front tie down loop at the front of the dolly wheel support to secure the front of the machine.



76

-
6. Secure the left rear of the machine using the tie down loop as shown
 7. Secure the right rear of the machine using the tie down loop as shown

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



77

ENGINE MAINTENANCE

See engine manufactures owners manual.

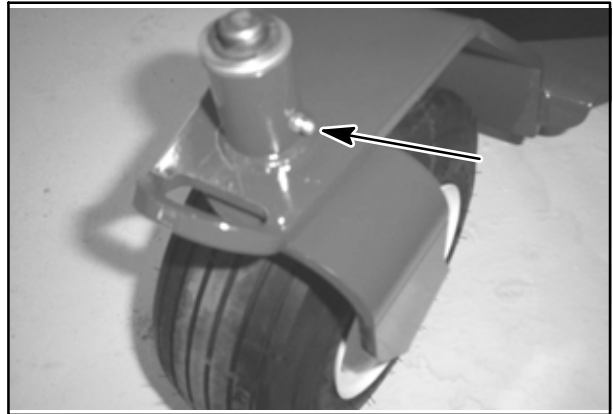
LUBRICATION

Lubricate the following grease points every 50 hours or on an annual basis whichever comes first.

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

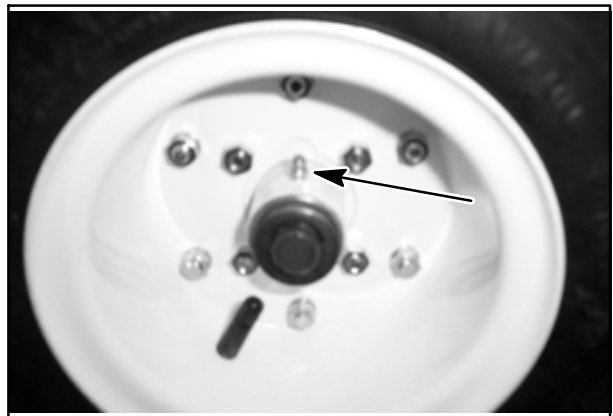
Add grease to the fittings until there is a slight increase in effort needed to operate the grease gun handle.

Front dolly wheel pivot.



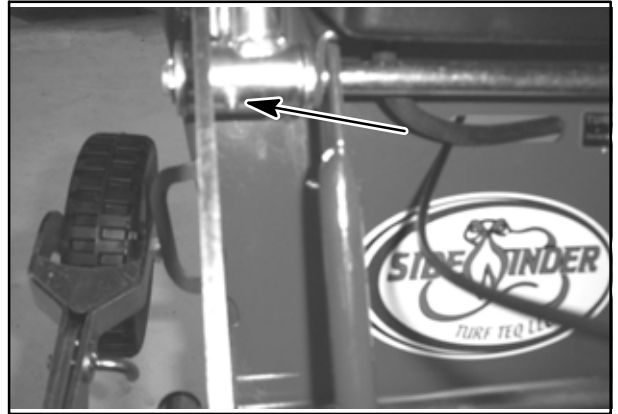
78

Front wheel bearing.



79

Attachment lift arm pivot.



80

SIDEWINDER™ - SUPER PIVOT BELT TENSION AND ADJUSTMENT

MAIN DRIVE BELT

CHECKING BELT TENSION

There is no tension check needed because the belt is automatically tensioned by springs, A, located under the cover shield.

ADJUSTING BELT TENSION

No adjustment is required because of the automatic tensioning springs, A, located under the cover shield.

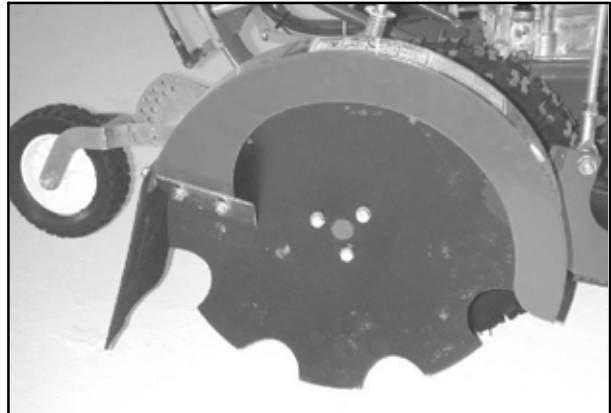


81

ATTACHMENT DRIVE BELT

CHECKING BELT TENSION

1. Lower the attachment arm until the blade contacts the ground.

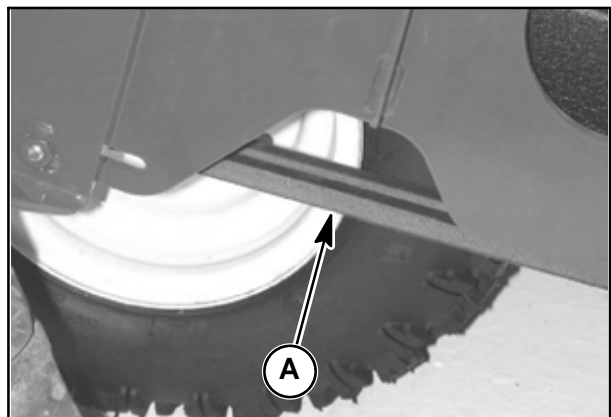


82

2. Apply 10 pounds of pressure to the belts at A, and check for 1/2" belt deflection

If tension is correct, no additional action is required.

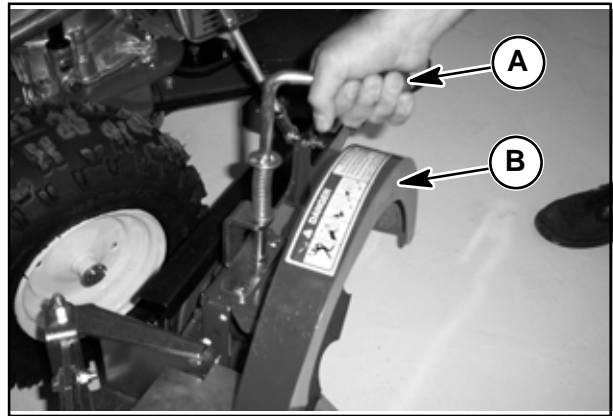
If tension is not correct, proceed to the adjustment section.



83

ADJUSTING BELT TENSION

1. Remove tension bolt handle, A.
2. Remove shield, B.

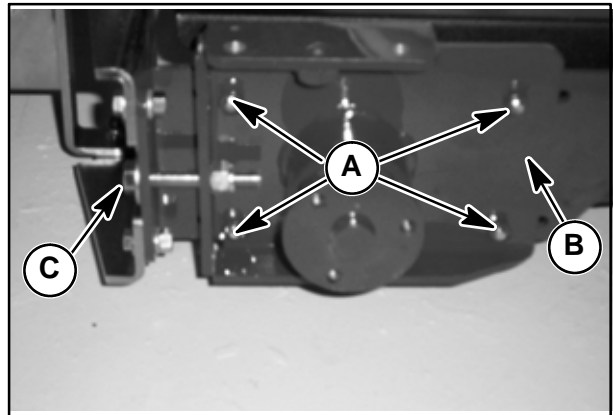


84

3. Loosen the four bolts, A. The bolt heads are on the backside of plate, B.

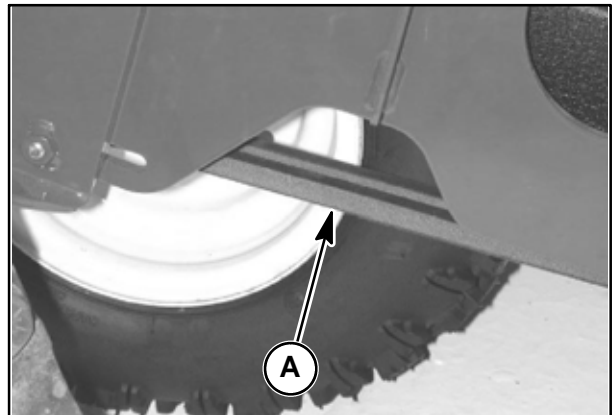
NOTE: The blade does not have to be removed. The blade was removed solely to show the bolts.

4. Tighten bolt, C, to increase belt tension



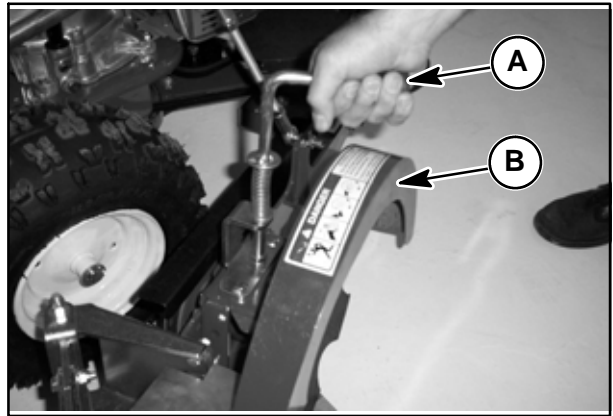
85

5. Increase tension until 10 pounds of pressure applied to the belts at A, results in a 1/2" belt deflection.



86

6. Install shield, B, and tighten handle, A.



87

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.

MACHINE SERVICE

1. Lubricate all grease point as shown in the Lubrication Section.

2. Lubricate all linkage pivot points.
3. Spray exposed cabled with a fluid lubricant to prevent binding and rust.
4. Examine all belts 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 and gearboxes for bearing condition. Replace any loose bearings.

SPECIFICATIONS

ENGINE

Honda – GXV390K1 13.0 HP

FUEL TANK

1.0 US Gallon

TRANSMISSION

Tuff Torq model K46
Hydrostatic
Infinite variable control

GROUND SPEED

0 – 4.2 mph

WEIGHT

350 Lbs. (weight will vary depending on blade and guard options)

DIMENSIONS

44" W x 43" H x 66" L

DRIVES

Engine mounted clutch/brake
Heavy duty bevel gearbox with sealed bearings
Reversible implement drive belt

TIRES

Rear = 18 x 6.5 heavy 4-Ply lugged

ATTACHMENT ARM

Variable angle from 0 to 40 degrees

CONTROLS

Park Brake
Variable speed control lever
Implement positioning lever

FRAME

Heavy formed tube mainframe

ATTACHMENT BLADES

Bed Opener blade

6-1/2" wide and up to 5" deep
Replaceable carbide teeth

Trenching blades

1-5/8" wide and up to 5" deep (16" diameter)
Replaceable carbide teeth

1-1/4" wide and up to 8" deep (21" diameter)
Replaceable carbide teeth

Grooming blade

Up to 5" deep (16" diameter)
Complete blade is replaceable
Cutting angle 0 - 40 degrees



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Printed in U.S.A.