

HONDA

Power

Equipment

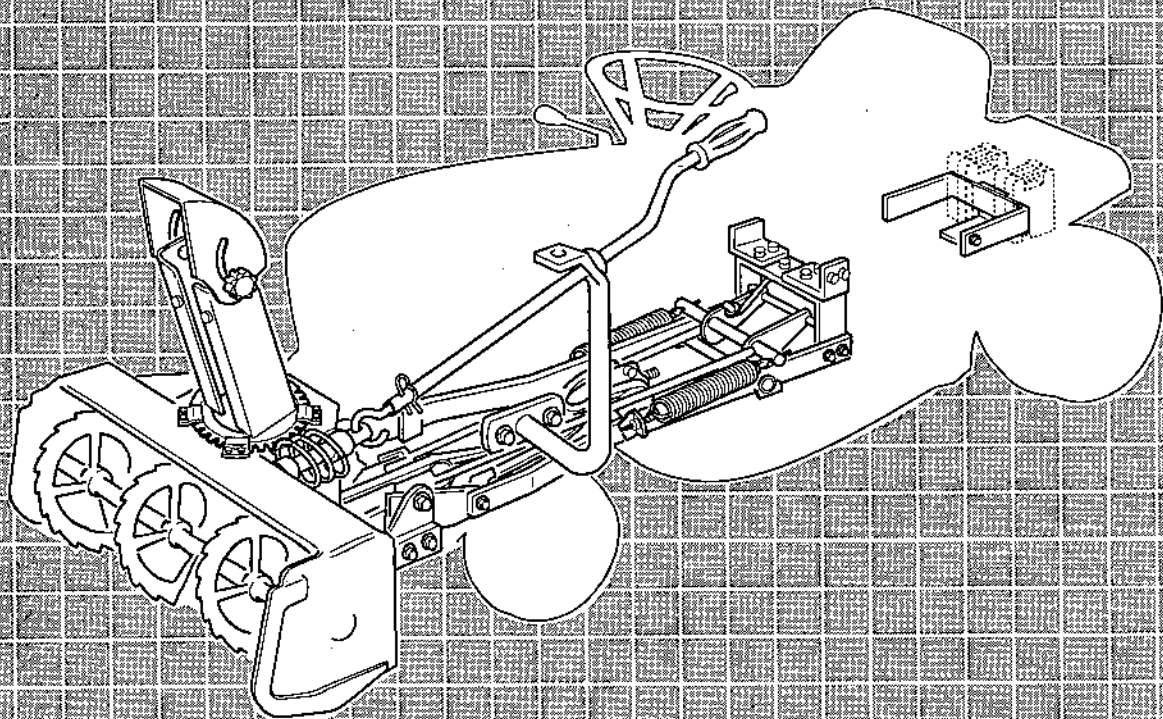
HTA

OPERATOR'S MANUAL

SB2040 Snowblower

for use with the

Harmony H2013 Lawn Tractor



The information in this operator’s manual is limited in application to the Honda SB2040 Snowblower (frame serial numbers 1000001 –1001000) when installed and used on a Honda Harmony H2013 lawn tractor. Before installing or operating this equipment, read this operator’s manual and the owner’s manual supplied with the lawn tractor .

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This manual is a permanent part of the snowblower and must stay with the snowblower if resold .

SAFETY MESSAGES

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the snowblower. Please read these messages carefully.

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol and one of the following three words: DANGER, WARNING, or CAUTION.

These words mean:



You **WILL** be KILLED or SERIOUSLY HURT if you don't follow instructions.



You **CAN** be KILLED or SERIOUSLY HURT if you don't follow instructions.



You **CAN** be HURT if you don't follow instructions.

Each message tells you what the hazard is, what can happen, and what you can do to avoid or reduce injury.

DAMAGE PREVENTION MESSAGES

You will also see other important messages that are preceded by the word NOTICE.

This word means:



Your equipment or other property can be damaged if you don't follow instructions.

The purpose of these messages is to help prevent damage to the snowblower, lawn tractor, other property, or the environment.

THE IMPORTANCE OF INSTALLATION

Proper installation is essential to operator safety and the reliability of the machine. Any error or oversight made by the technician assembling and servicing a unit can easily result in faulty operation, damage to the machine, or injury to the operator

⚠ WARNING
Improper service can cause an unsafe condition that can lead to serious injury or death.
Follow the procedures and precautions in installation instructions and shop manuals carefully.

Some of the most important safety precautions are given below. However, we cannot warn you of every conceivable hazard that can arise in performing this installation. Only you can decide whether or not you should perform a given task.

⚠ WARNING
Failure to properly follow installation instructions and precautions can cause you to be seriously hurt or killed.
Follow the procedures and precautions in installation instructions carefully.

IMPORTANT SAFETY PRECAUTIONS

Make sure you have a clear understanding of all basic shop safety practices and that you are wearing appropriate clothing and safety equipment. When performing this installation, be especially careful of the following:

- Read the instructions before you begin, and make sure you have the tools and skills required to perform the tasks safely.

Make sure the engine is off before you begin any maintenance or repairs. This will help eliminate several potential hazards:

- Carbon monoxide poisoning from engine exhaust. Be sure there is adequate ventilation whenever you run the engine.
- Burns from hot parts. Let the engine and exhaust system cool before touching.
- Injury from moving parts. Do not run the engine unless the instruction tells you to do so. Even then, keep your hands, fingers, and clothing away. Do not run the engine when any protective guard or shield is removed.

To reduce the possibility of a fire or explosion, be careful when working around gasoline or batteries. Use only a nonflammable solvent, not gasoline, to clean parts. Keep all cigarettes, sparks, and flames away from the battery and all fuel-related parts.

Safety Labels


Immediately replace any label that becomes damaged or unreadable. Contact a servicing Honda lawn tractor dealer for replacement label.

⚠ WARNING

FAILURE TO FOLLOW SAFE OPERATING PROCEDURES MAY RESULT IN INJURY.

- FOR SAFE OPERATION FOLLOW ALL OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS IN OPERATOR'S MANUAL.
- EYE PROTECTION MUST BE WORN AT ALL TIMES.
- KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER DRIVEN PARTS.
- STOP ENGINE BEFORE LEAVING OPERATOR POSITION.
- WAIT FOR ALL MOVEMENTS TO STOP BEFORE STARTING TO ADJUST, LUBRICATE, CLEAN OR UNBLOCK THE MACHINE.
- KEEP THE AREA OF OPERATION CLEAR OF ALL PERSONS AND ANIMALS.
- KEEP ALL GUARDS AND SHIELDS IN PLACE.
- NEVER DIRECT DISCHARGE TOWARD BYSTANDERS, BUILDINGS, CARS ETC.
- ALWAYS USE A DUST MASK WHEN WORKING IN DUSTY CONDITIONS.
- KEEP PLASTIC MATERIALS AWAY FROM INTENSE HEAT AND OPEN FLAME.
- NEVER ALLOW PASSENGERS ON THE ATTACHMENT.

⚠ DANGER

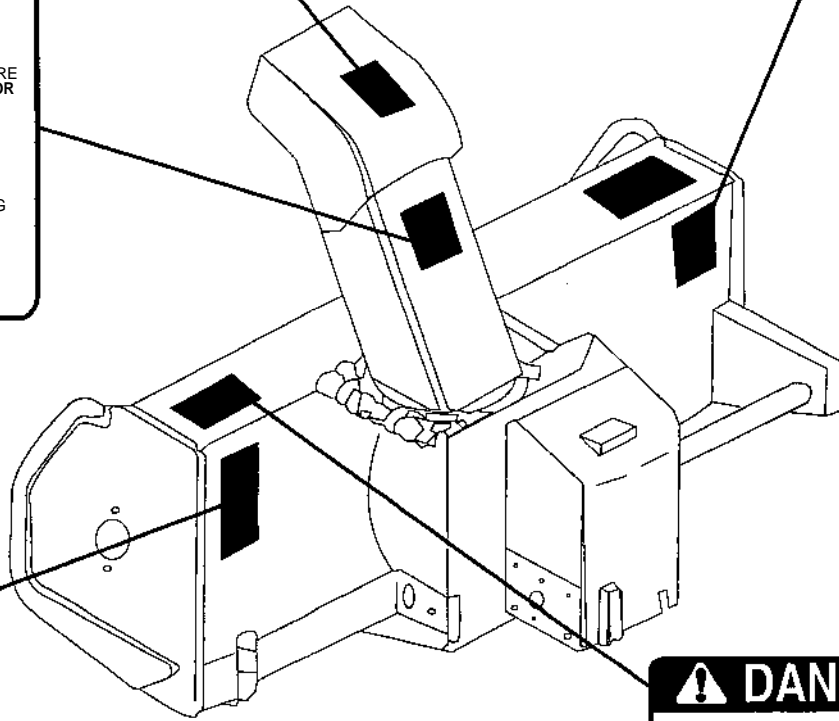


TO AVOID SERIOUS INJURY: KEEP HANDS OUT OF THIS DISCHARGE CHUTE WHILE THE ENGINE IS RUNNING

⚠ WARNING

TO AVOID INJURY WHEN USING SNOWBLOWER

- A REAR COUNTERWEIGHT IS REQUIRED TO COUNTERBALANCE SNOWBLOWER WEIGHT
- MINIMUM 100 LBS. COUNTERWEIGHT IS RECOMMENDED
- APPROVED TIRE CHAINS ARE REQUIRED WHEN DISMOUNTING SNOWBLOWER, REMOVE REAR COUNTERWEIGHT
- **⚠** NOT OPERATE ON SLOPES GREATER THAN 10%; READ OPERATOR'S MANUAL



⚠ DANGER



AVOID INJURY FROM DRIVE BELT-

- KEEP HANDS, FEET AND CLOTHING AWAY
- STOP ENGINE AND REMOVE IGNITION KEY BEFORE COMING NEAR DRIVE BELT
- DO NOT ATTEMPT TO INSTALL OR REMOVE DRIVE BELT WITHOUT READING OPERATOR'S MANUAL.

⚠ DANGER

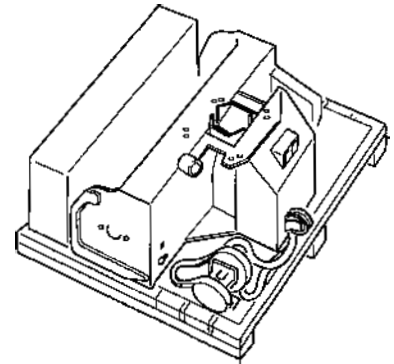


AVOID INJURY FROM ROTATING AUGER
KEEP HANDS, FEET AND CLOTHING AWAY

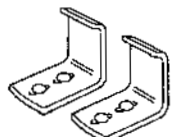
Assembly and Installation

Proper installation of the SB2040 includes installing four (4) 26-lb. counterweights. These counterweights are not included with the snowblower and must be purchased separately.

1. Remove the lag bolts holding the blower head and the pulley assembly to the shipping pallet.
2. Remove the blower head and pulley assembly from the pallet.
3. Remove the loose parts box, then inventory the contents.



Inventory Loose Parts



SKID SHOES (2)



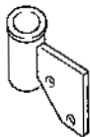
5/8 x 13-7/16" ROD



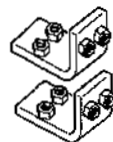
3/4 x 11-7/8" ROD



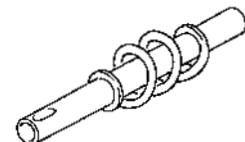
HOLD-DOWN BRACKET



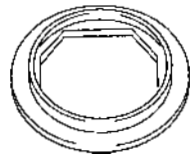
WORM SUPPORT BRACKET



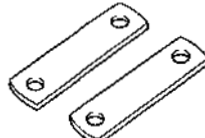
• L-SHAPED BRACKETS (2)



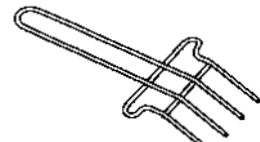
WORM GEAR



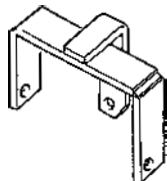
ANTIFRICTION RING



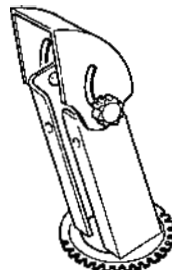
LIFT PLATE (2)



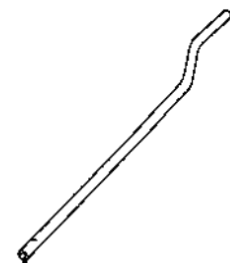
DISCHARGE GUARD



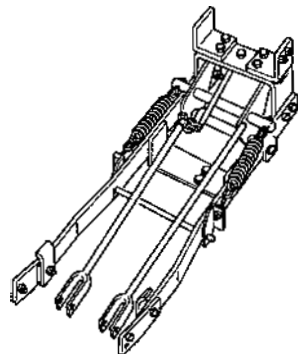
COUNTERWEIGHT BRACKET



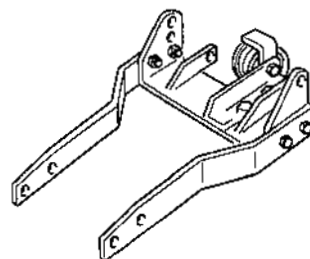
DISCHARGE CHUTE



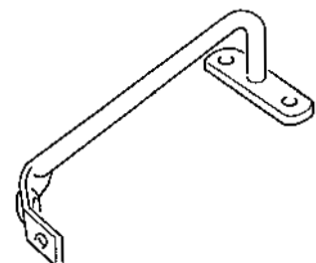
HANDLE



SUBFRAME ASSEMBLY



PUSH FRAME





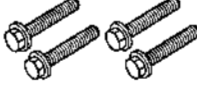














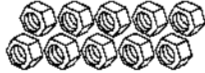


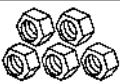
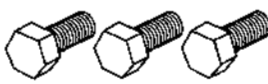



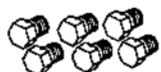


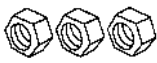
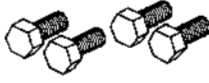
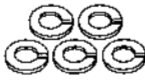





HANDLE SUPPORT

• These brackets (and associated hardware) are loosely installed on the subframe of units with serial numbers from 1000001 - 1000500.













Inventory Hardware Bags

Refer to the serial number (located on the right side of the blower head) and check all hardware.

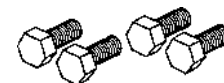


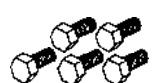
The following parts are included with all units:

 3/4" ID x 1-11/16" plastic bushing	 5/16 x 1" carriage bolt (4)	 8 x 25 mm flange bolt (4)	 turnbuckle 7" ~ 9"
 1/2" flat washer (2)	 metal bushing (2)	 3/4 ID x 1-5/16" plastic bushing	 5/16" lock washer (4)
 5/16" flat washer (2)	 9/16" flat washer (2)	 1/2" lock washer (2)	 grommet
 2.5 x 40 mm spring clip (1)	 4 x 80 mm spring clip (3)	 7/16 dia. hole flat washer (4)	 reflector (2)
 handle hook (1)	 1/4" hex nut (10)	 3/16 x 1-1/2" roll pin (silver)	 5/16" hex nut (5)
 7/16" hex nut (5)	 1/2 x 1-1/4" hex bolt (3)	 8 mm flat washer (4)	 1/2 x 1-3/4" hex bolt (2)
 1/4" x 1/2" hex bolt (4)	 1/4 x 3/4" hex bolt (6)	 1/2 x 3" plastic handle (1)	 3/8" lock washer (5)
 1/2" hex nut (3)	 7/16 x 1-1/4" hex bolt (4)	 7/16" lock washer (5)	 7/16 x 1" hex bolt (1)
 1/2" lock washer (5)	 3/8" hex nut (1)	 retaining plate (4)	 packing list

The following parts are included only with serial number 1000001 -1000500 only. The parts indicated in the shaded boxes are not required for assembly and installation of the snowblower.

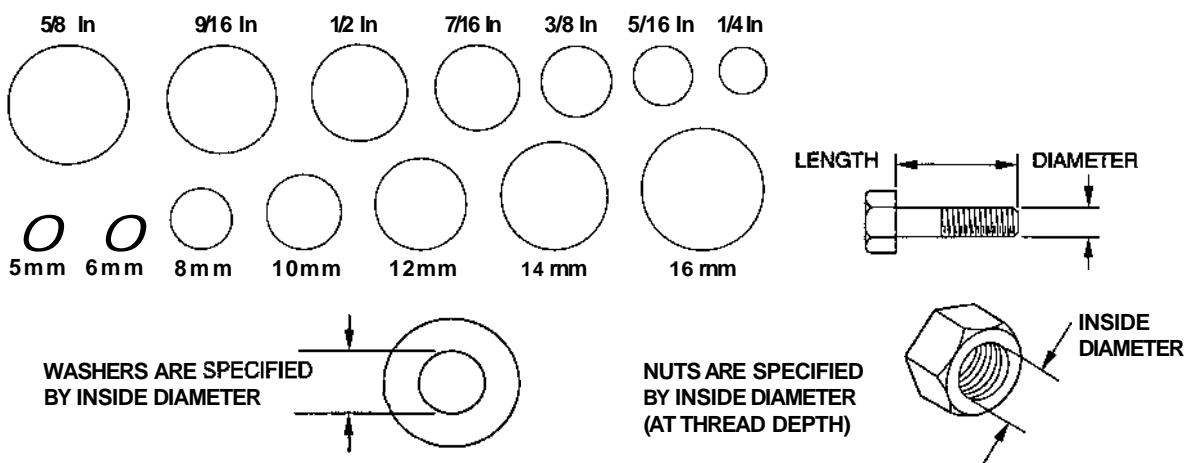
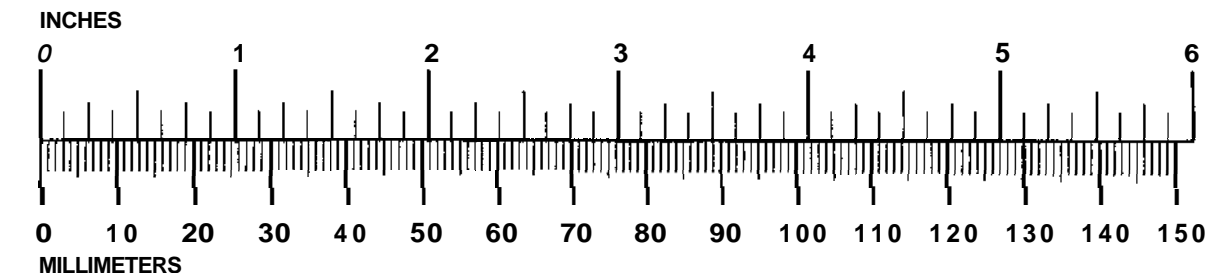
 <p>5/16 x 1-1/4" carriage bolt (2)</p>	 <p>1/4 x 1/2" hex bolt (2)</p>	 <p>1/8 x 1-1/2" roll pin (gold)</p>	 <p>5/16" flange nut (2)</p>
 <p>1/4" lock washer (2)</p>	 <p>1/4" hex nut (2)</p>	 <p>5/16 x 3/4" hex bolt (2)</p>	 <p>5/16" hex nut (2)</p>
 <p>5/16" flat washer (2)</p>	 <p>13/16" flat washer (1)</p>	 <p>5/16 lock washer (4)</p>	 <p>3/8 x 1" hex bolt (4)</p>

The following parts are only included with serial number 1000501 and up:

 <p>5/16 x 3/4" hex bolt (4)</p>	 <p>3/8" flat washer (4)</p>	 <p>5/16 lock washer (E)</p>	 <p>3/8 x 1" hex bolt (5)</p>
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Hardware Measuring Chart

How to measure hardware and components:



Torque Values

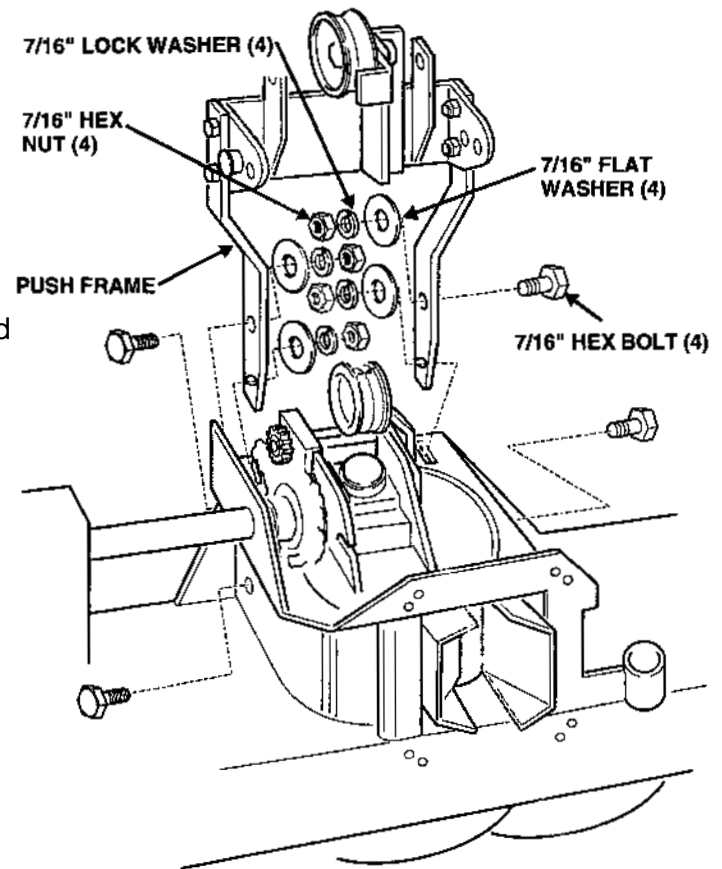
Fastener / Size	Nom	ft-lb.
Hex nut / bolt, 1/4"	6.8-8.1	5-6
Hex nut / bolt, 5/16"	14-16	10-12
Hex nut / bolt, 3/8"	27-31	20-23
Hex nut / bolt, 7/16"	41-47	30-35
Hex nut / bolt, 1/2"	61-70	45-52
8 x 25 mm flange bolts	9-19	7.2-14

Assemble the Snowblower

FOLLOW THESE INSTRUCTIONS CAREFULLY. Correct installation of this snowblower is essential for safe, reliable operation.

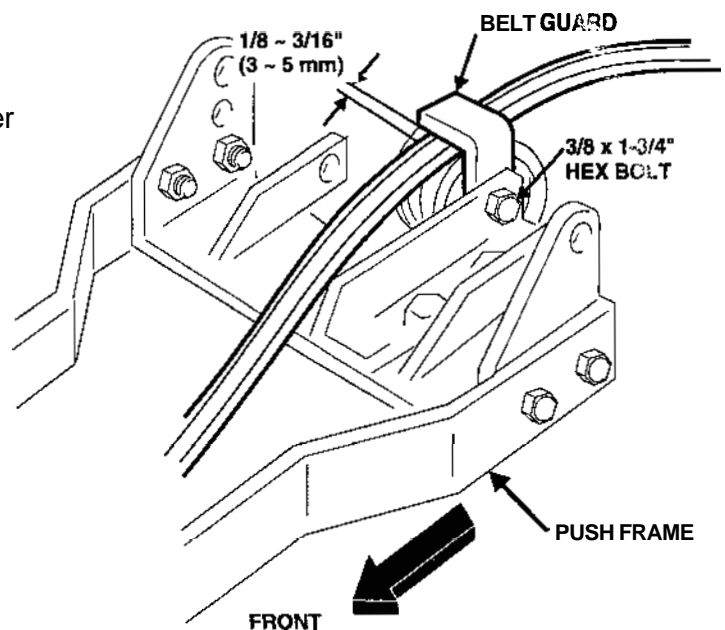
Push Frame Installation

1. Position the blower head on its front end as shown.
2. Slide the push frame assembly into the blower head.
3. Install and finger-tighten two 7/16 x 1-1/4" hex bolts, 7/16" flat washers, 7/16" lock washers and 7/16" hex nuts to the front holes.
4. Install two additional 7/16 x 1-1/4" hex bolts, 7/16" flat washers, 7/16" locking washers and 7/16" hex nuts to the rear holes.
5. Hold the edges of the push frame parallel to the edges of the blower head, then tighten all hardware.



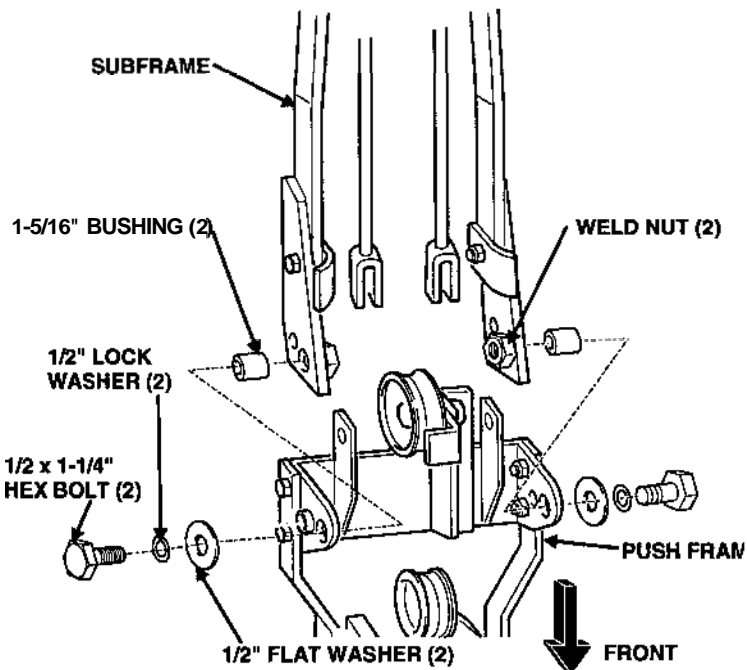
Install Belt to Idler Pulley

1. Locate the 3/8 x 1-3/4" hex bolt securing the idler pulley to the push frame. Loosen this bolt enough to allow the belt guard to be moved.
2. Locate the belt where it exits the bottom of the blower head. Install the belt onto the idler pulley with the wide, flat side of the belt against the pulley as shown.
3. Position the belt guard straight up. Adjust the gap between the guard and the pulley to 1/8 - 3/16" (3 - 5 mm) and tighten the hex bolt.



Install Push Frame to Subframe

1. Position the push frame to the subframe as shown.

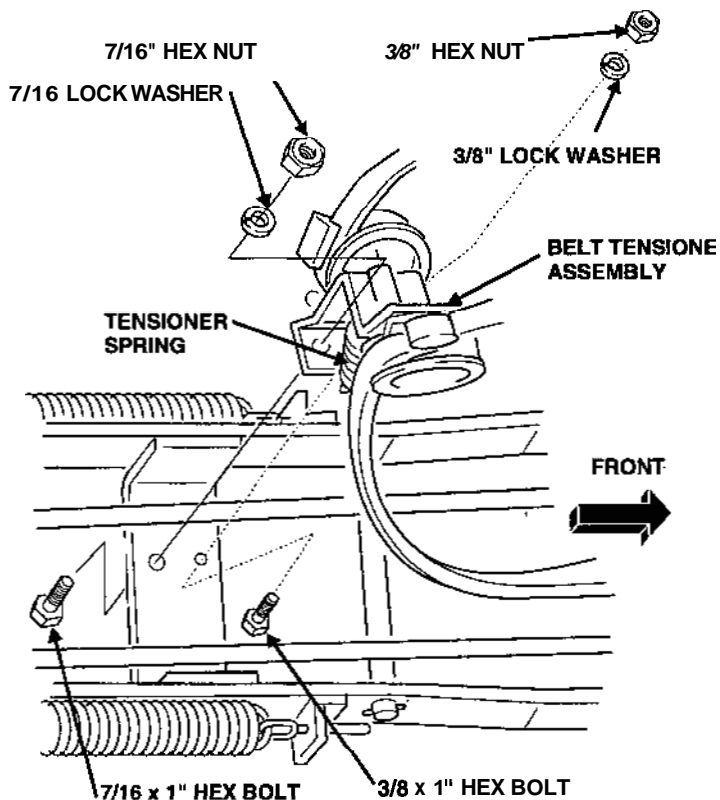


2. Install two 1-5/16" bushings, then install two 1/2 x 1-1/4" hex bob, 1/2" lock washers, and two 1/2" flat washers to the weld nuts on the push frame. Tighten the two nuts securely.

For clarity, the drive belt is not shown in this illustration.

Install PTO Clutch Assembly

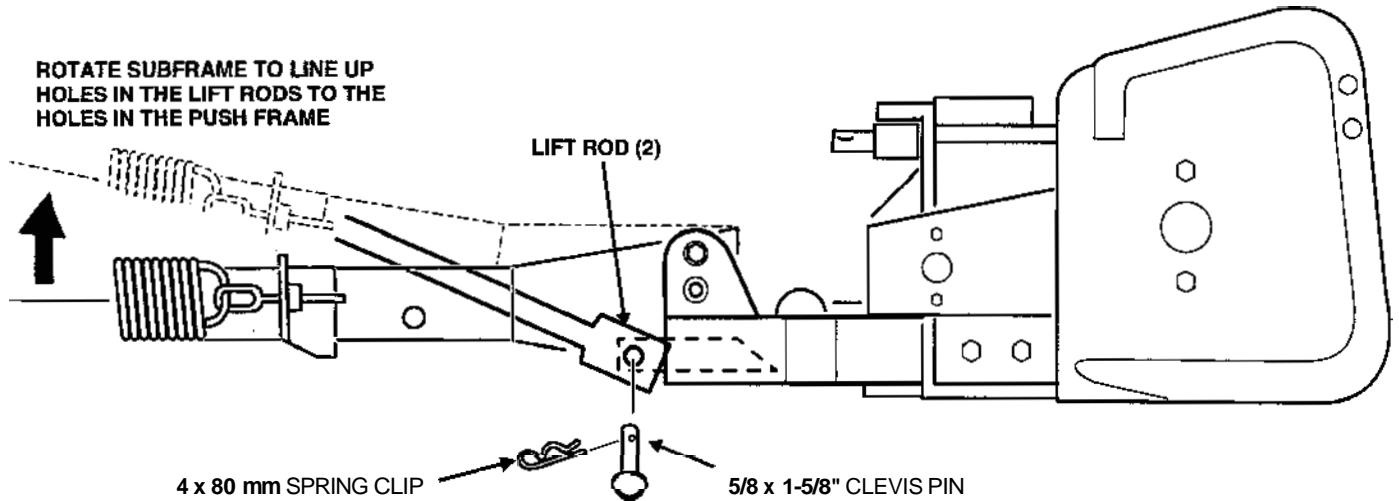
1. Position the assembly as shown. Make sure the belt is fully enclosed inside the push frame, and the tensioner spring faces away from the blower head.



2. Install the assembly to the push frame using 3/8 x 1" hex bolt, 3/8" lock washer and 3/8" hex nut in the front (closest to the blower head) hole, then install a 7/16" x 1 hex bolt, 7/16" lock washer and 7/16" hex nut to the rear hole in the subframe.

Connect Lift Rods

1. Allow the subframe to pivot (while the blower head remains stationary), so you can connect the two lift rods to the subframe using the two 5/8 x 1-5/8" clevis pins and 4 x 80 mm spring clips.
2. Verify that the two counterbalance springs remain connected at both ends.

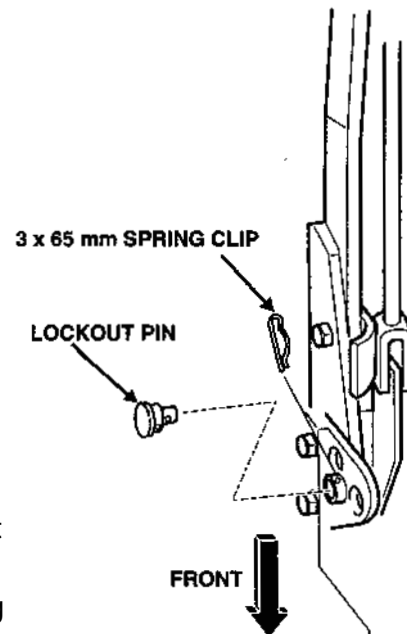


Engage Lockout Pin

The counterbalance springs transfer the weight of the push frame (and blower head) against the subframe. This arrangement allows the height adjustment lever to easily raise and lower the entire blower head. The push frame must be locked into position (using the lockout pin) before the springs can be properly adjusted.

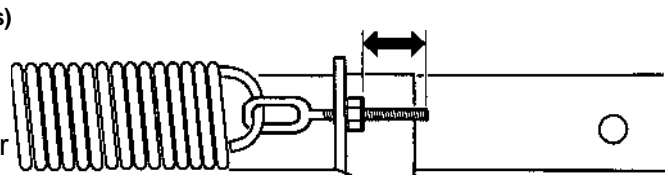
Once the counterbalance springs are adjusted, they are under tension. The lockout pin must be kept in the locked position until the entire snowblower is fully installed.

1. Place a suitable block of wood or other support under the push frame, so the subframe can pivot downward.
2. Adjust the position of the subframe as needed to slide the lockout pin through the push frame and into the corresponding hole in the subframe. Secure the lockout pin with a 3 x 65 mm spring clip.
3. Verify the lockout pin is correctly installed by attempting to pivot the subframe on the push frame.



Adjust Counterbalance Springs

1. Tighten the adjustment nut on each counterbalance spring bolt so the exposed thread length is 75 mm (3.0 inches).
2. Lift the subframe and remove the block of wood or support.

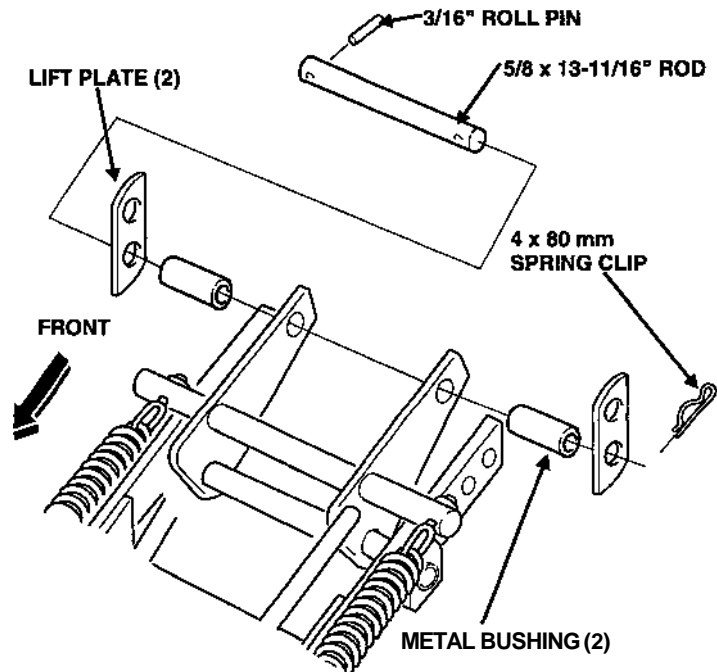


After the counterbalance springs have been adjusted, they are under tension. Do not remove the lockout pin until the entire snowblower is fully installed on the lawn tractor.

The effort required to raise and lower the blower head can be adjusted by varying the length of exposed thread on the spring bolts. See the **Maintenance** section for details.

Install Lift Plates

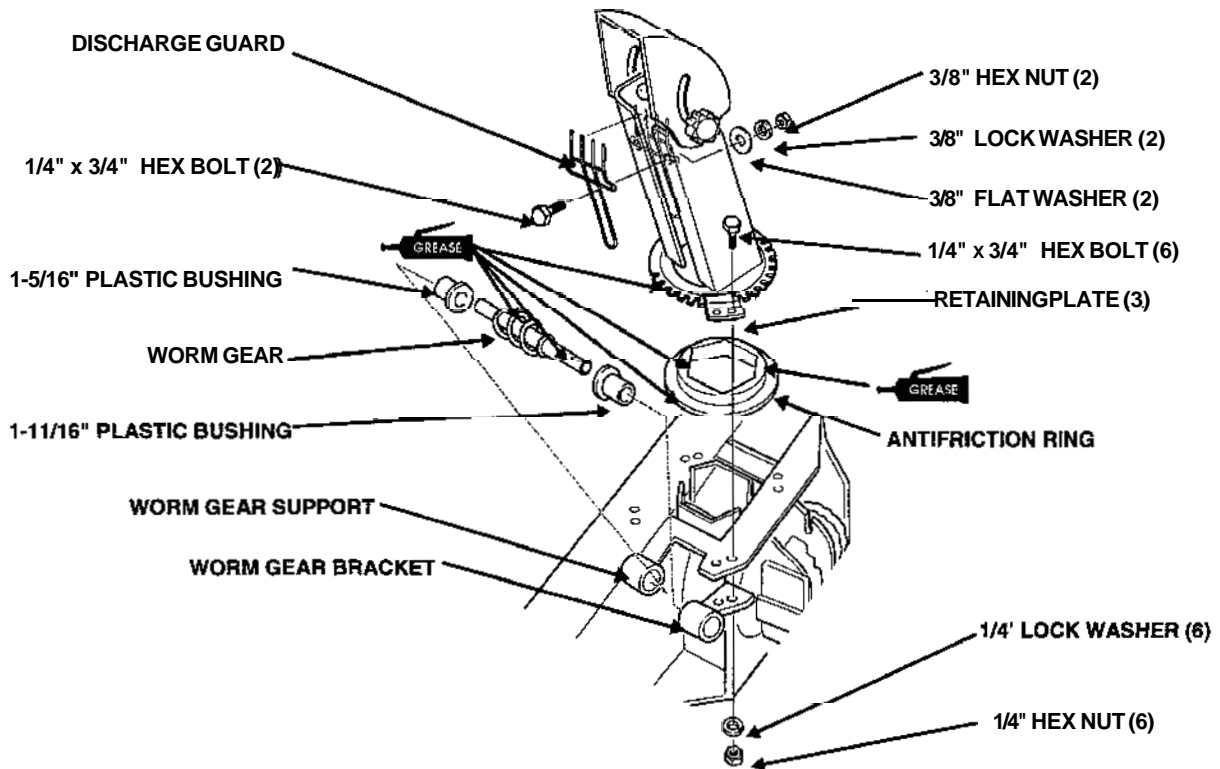
1. Install a 3/16" roll pin into one hole on the 5/8 x 13-1 1/16" rod. Install one lift plate and metal bushing on the rod and slide them against the roll pin.
2. Insert the other end of the rod through the holes in the subframe as shown. Install the other metal bushing and lift plate, then a 4 x 80 mm spring clip.



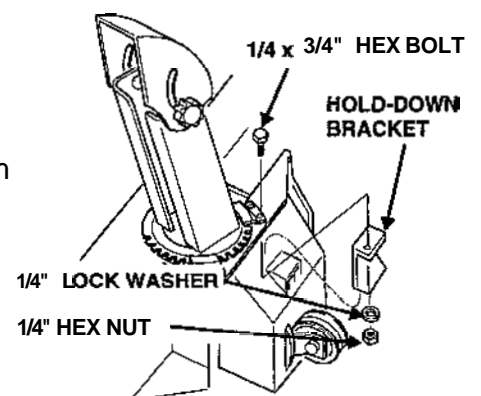
The remaining holes on each lift plate will attach to the two lifting arms on the lawn tractor when the snowblower is installed.

Discharge Chute Assembly

1. Install the discharge guard on the chute as shown using two 3/8-3/4" hex bolts, 3/8" flat washers, 3/8" lock washers and 3/8" hex nuts.
2. Place the antifriction ring onto the blower head; the ring is keyed to the blower head so only one position fits.
3. Apply a generous amount of general purpose grease to the top lip of the antifriction ring.
4. Install the long (1-11/16") plastic bushing into the worm gear bracket. Apply grease to the inside surface of the bushing.

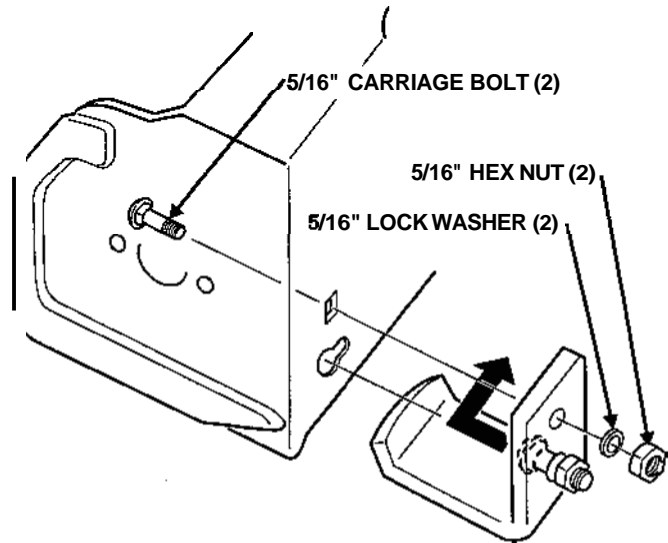


5. Grease the inside of the shorter (1-5/16") plastic bushing then slide it onto the short shaft of the worm gear. Grease the long shaft on the worm gear, and install it into the bushing on the worm gear bracket.
6. Position the chute on the blower head. Get a helper to hold it in place if needed.
7. Install the two front retaining plates using four 1/4 x 3/4" hex bolts, lock washers and hex nuts.
8. Install the short shaft of the worm gear (with bushing) into the bracket on the blower head.
9. Use the 1/4 x 3/4" hex bolts to install the left rear retaining plate along with the crank handle bracket.
10. Apply a generous amount of general purpose grease to the worm gear and chute gear teeth.
11. Use the longer, 1/4 x 3/4" hex bolts to secure the right rear retaining plate, hold-down bracket, and the plastic chain cover.



Skid Shoe Installation

1. Insert one 5/16 x 1" carriage bolt into the lower hole of each skid shoe. Loosely attach a 5/16" lock washer and 5/16" hex nut.
2. Slip the carriage bolt head into the keyhole opening in the lower, rear outside corner of the blower head.
3. Install the other 5/16 x 1" carriage bolt, lock washer and hex nut as shown. Tighten both hex bolts securely.
4. Repeat for the other skid shoe on the other side of the blower head.
5. The holes in the skid shoes are slotted so the skid shoes may be adjusted. See the **Operation** chapter for details on adjusting the skid shoes.



Installing the Snowblower

Remove the Mower Deck

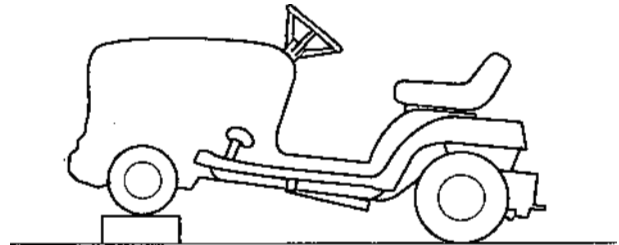
Follow the procedure in the *H2013 Owner's Manual* or *H20133 Shop Manual*, and remove the mower deck and front links from the lawn tractor.

Remove Optional Trailer Hitch and/ or Grass Bag Supports:

Remove the trailer hitch and/or the grass bag supports if either are installed on the lawn tractor. The counterweight bracket cannot be installed with the trailer hitch or grass bag supports.

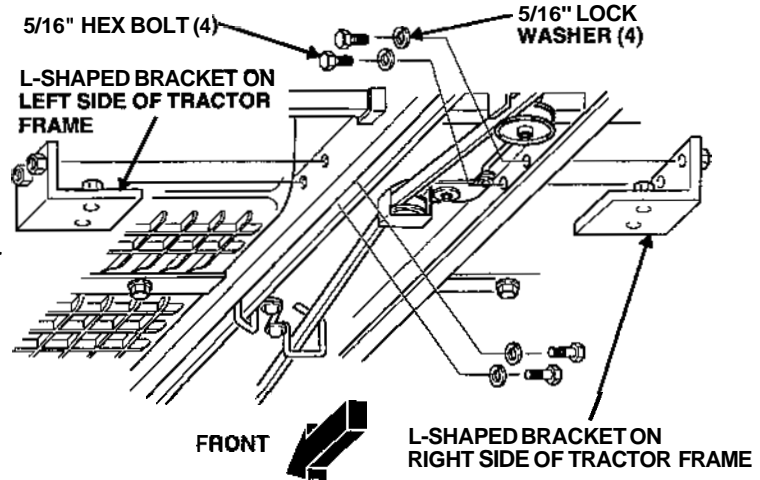
Raise and Support the Lawn Tractor

1. Raise the front end of the lawn tractor, and then support it by placing a 4 x 4" board under each front tire.
2. Engage the parking brake, remove the ignition key, and disconnect the spark plug cap.

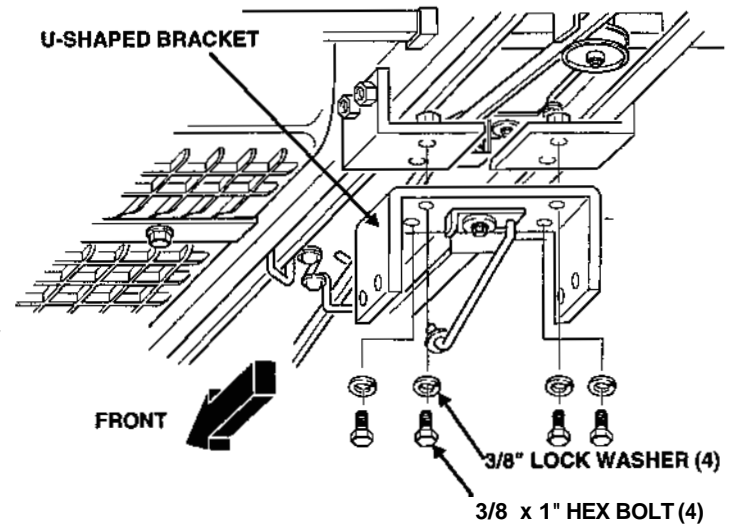


Install Brackets

1. If already installed, remove the hardware and the I-shaped brackets from the subframe of the assembled snowblower.
2. Install the I-shaped brackets to the lawn tractor frame using two 5/16 x 3/4" bolts and 5/16" lock washers as shown. Make sure the I-shaped brackets are installed on the **outside** of the lawn tractor frame.
3. Remove the u-shaped bracket and hardware from the subframe.

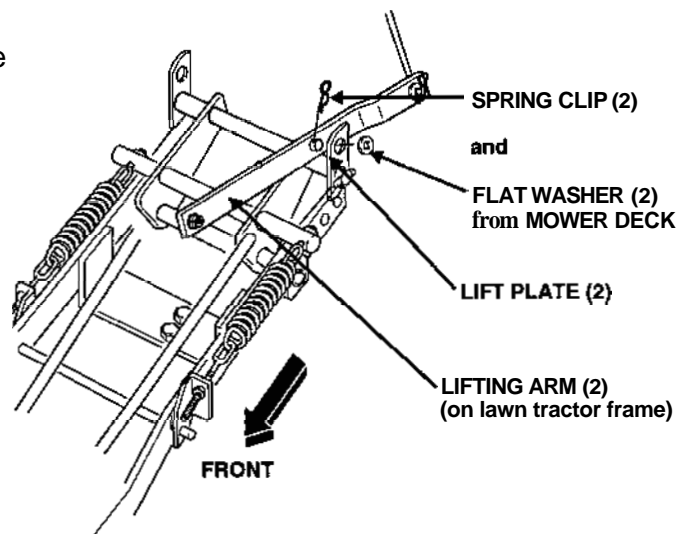


4. Loosely install (don't tighten) the u-shaped bracket to the two I-shaped brackets using four 3/8 x 1" hex bolts and 3/8" lock washers.
5. Raise the height adjustment lever as far as possible.



Install the Snowblower

1. Position the snowblower assembly directly in front of the lawn tractor. Raise and support the blower head, then slide the snowblower assembly under the lawn tractor so the subframe holes are about 1/4" further back from their corresponding holes in the u-shaped bracket.
2. Lower the height adjustment lever all the way down.
3. Connect the lift plates to the rear lift arms on the lawn tractor using the same spring clips and flat washers used for the mower deck.

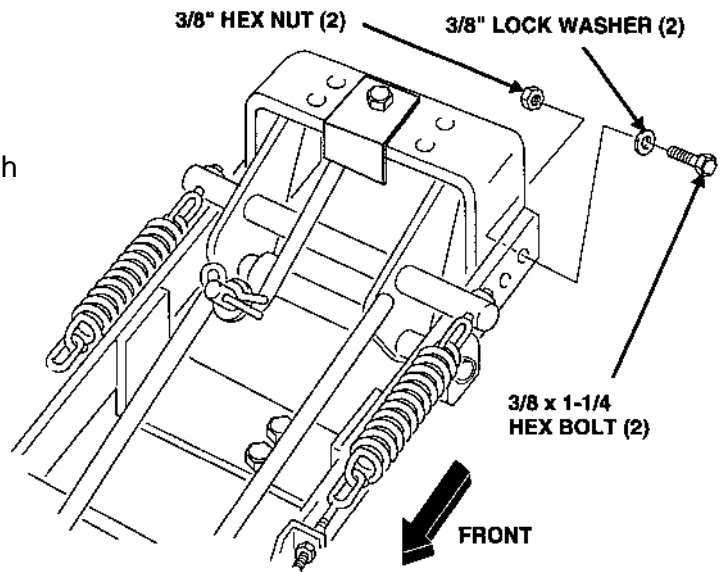


4. Slowly lift the subframe with the height adjustment lever, so the hole on the left side of the subframe aligns with the rear hole on the u-shaped bracket.

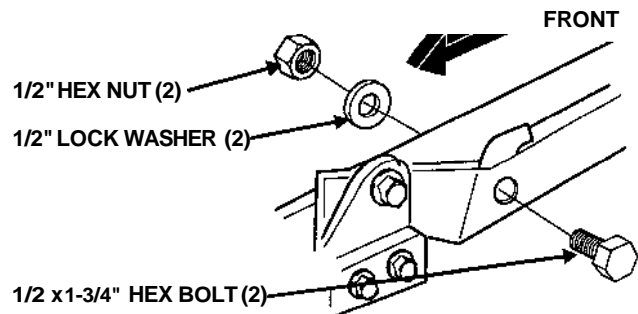
Loosely install a single 3/8 x 1-1/4" bolt through the **rear holes only** on each side of the u-shaped bracket and secure with a 3/8" lock washer and hex nut.

Make sure the subframe remains on the outside of the u-shaped bracket.

For clarity, the I-brackets and lawn tractor frame are not shown in this illustration.



5. Raise the blower head enough so the forward holes in the subframe align with the holes on the tractor frame. Raise or lower the blower head to align the holes vertically, and push or pull the blower head to align the holes horizontally. Install two 1/2 x 1-3/4" hex bolts, 1/2" lock washers and 1/2" hex nuts



6. Install two 3/8 x 1-1/4" hex bolts, lock washers and hex nuts into the **front** holes of the u-shaped bracket. For clarity, the I-brackets and lawn tractor frame are not shown in this illustration.

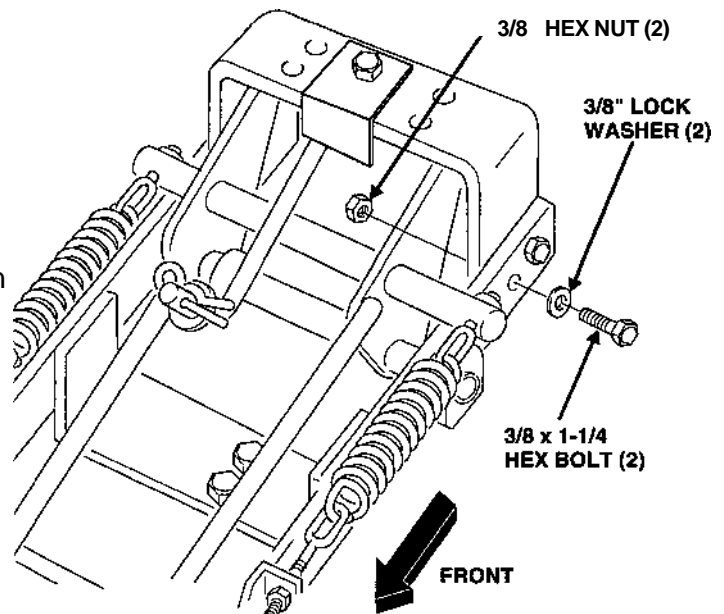
7. Securely tighten the 3/8 x 1-1/4" bolts and 1/2 x 1-3/4" bolts.

8. Raise the height adjustment lever as far as possible. This will **not** be the highest position on the lawn tractor; do not force it any higher.

9. Remove the supports from under the blower head. Lower the height adjustment lever all the way down.

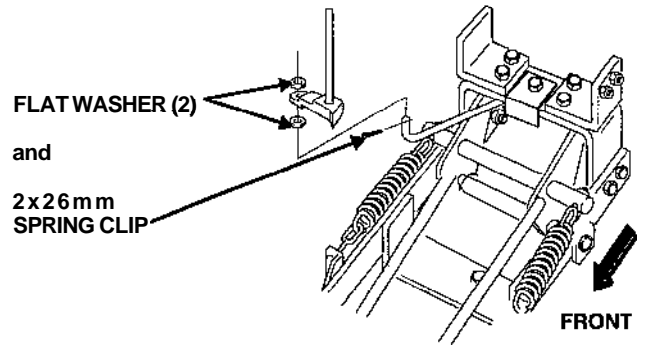
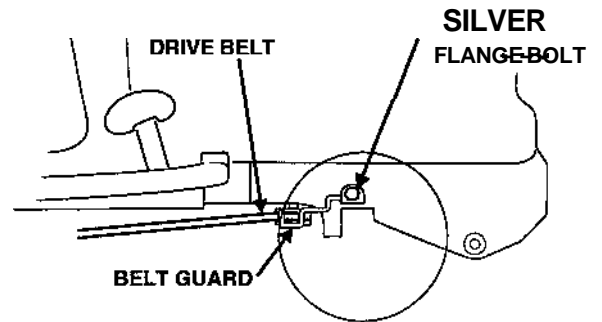
10. Disengage the lockout pin by removing its spring clip, then pulling the lockout pin out slightly. You may have to have a helper lift the blower head slightly to relieve any tension on the lockout pin.

11. Replace the spring clip on the lockout pin to secure it in the disengaged position.



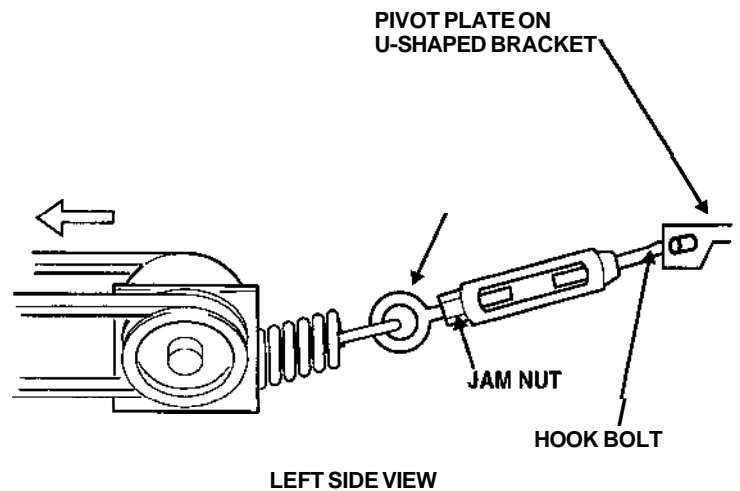
Connect Drive Belt & PTO Rod

1. Make sure the mower deck belt guard around the crankshaft pulley has been moved out of the way. This is typically done when the mower deck is removed.
2. Make sure the PTO clutch lever is OFF.
3. Install the snowblower drive belt to the crankshaft pulley, then install the belt guard. Tighten the silver-colored flange bolt securely.
4. Install the connecting rod from the pivot on the u-shaped bracket to the slot on the PTO rod using the two flat washers and 2 x 26 mm spring clip. Make sure the connecting rod is positioned on the right-hand side of the pivot.



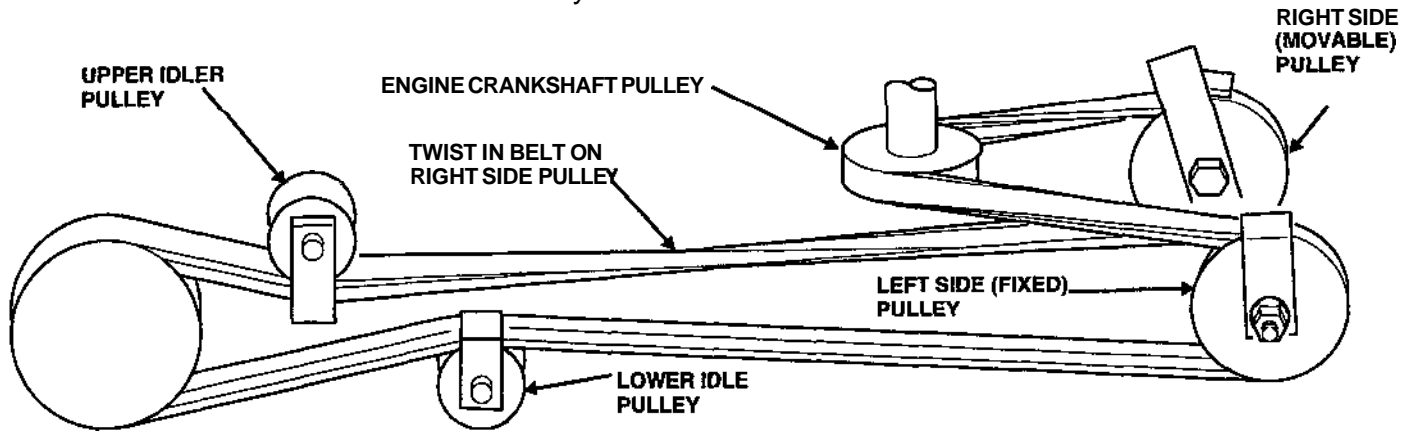
Connect Turnbuckle

1. Unthread the eye bolt side of the turnbuckle and install a 5/16" jam nut onto the eye bolt threads, then install the eye bolt back on the turnbuckle.
2. Connect the hook bolt end (tip of hook bolt must face out to the left side of the lawn tractor) of the turnbuckle to the pivot plate on the u-shaped bracket, and the eye bolt end of the turnbuckle to the tension spring on the belt tensioner pulley assembly.



Check Belt Routing Path

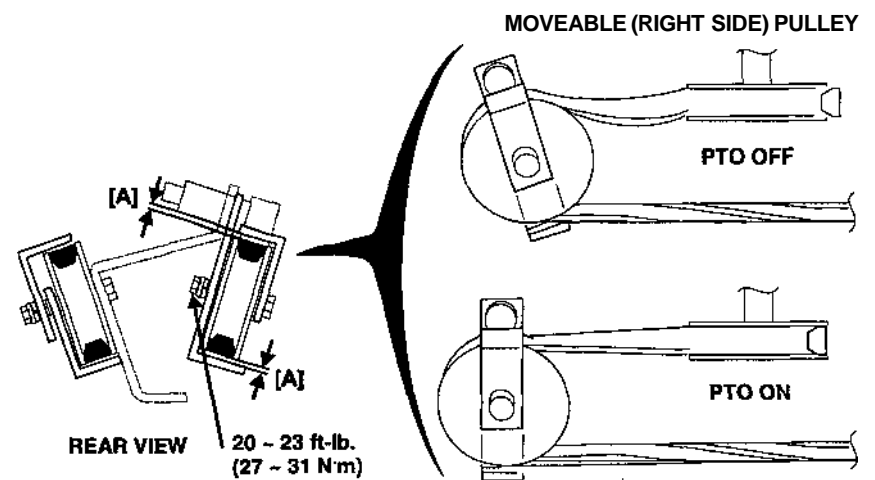
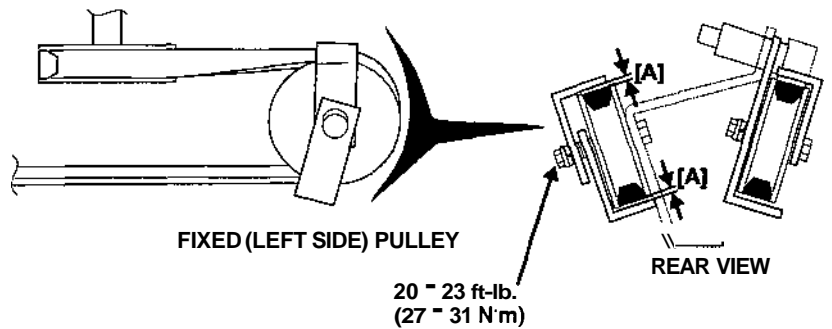
1. Move the PTO clutch lever to ON. Verify the belt has been routed as shown.



Check Belt Guards and Gap

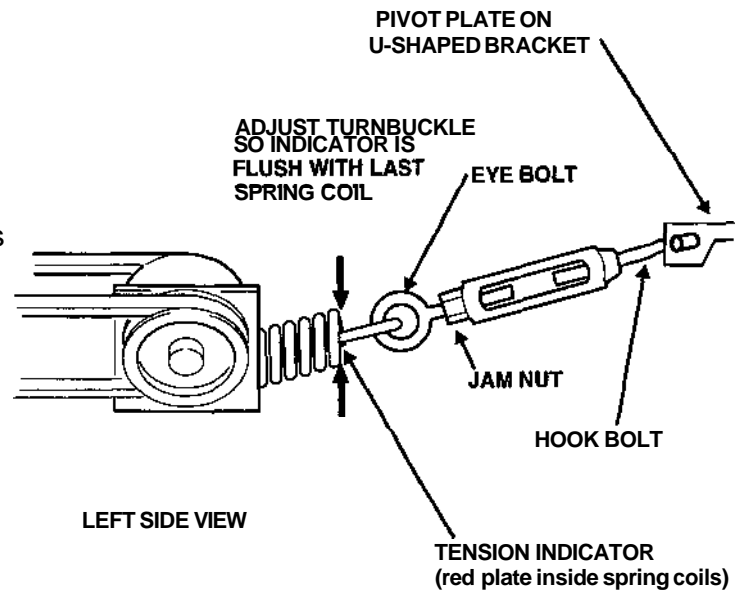
Inspect the four belt guards on the PTO clutch assembly. Verify each guard is positioned as shown.

Check the spacing between the the two pulleys and the four belt guards. Verify there is a gap of 1/8 - 3/16" (3 - 5 mm).



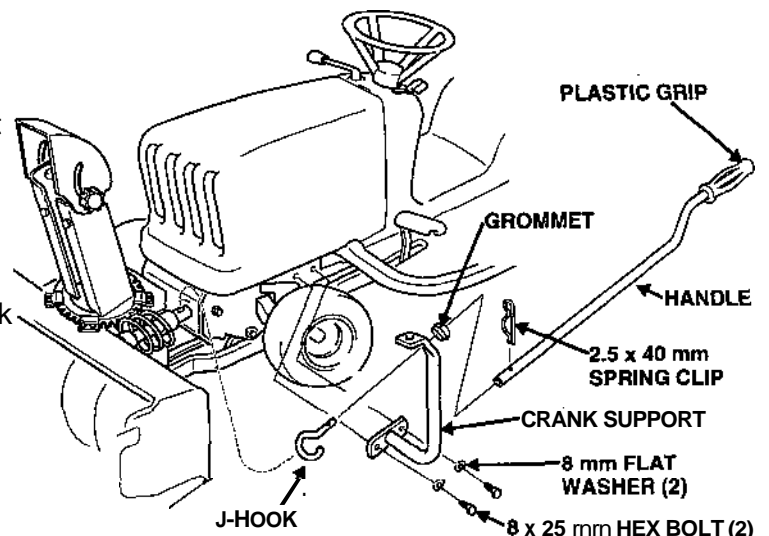
Adjust Belt Tension

1. Locate the thin metal plate inside the tensioner spring. This plate is the belt tension indicator.
2. Loosen the jam nut on eye bolt side of the turnbuckle, and then turn the turnbuckle until the square tip of the belt tensioner indicator is flush with the end of the tensioner spring. Tighten the nut securely.



Install Crank Handle and Crank Support

1. Install the plastic grip onto the end of the crank handle rod.
2. Locate and remove the two 8 x 18 mm flange bolts on the left front side of the lawn tractor frame, just to the rear of the left front tire.
3. Install the crank support to the lawn tractor frame using two 8 x 25 mm hex bolts and 8 mm flat washers.
4. Install the grommet into the end of the crank support, then insert the crank handle through the bushing. (The top most hole is used for mounting the optional light kit.)
5. Slip the J-hook into the tip of the worm gear, then install the other end into the crank handle. Secure it with a 2.5 x 40 mm spring clip.

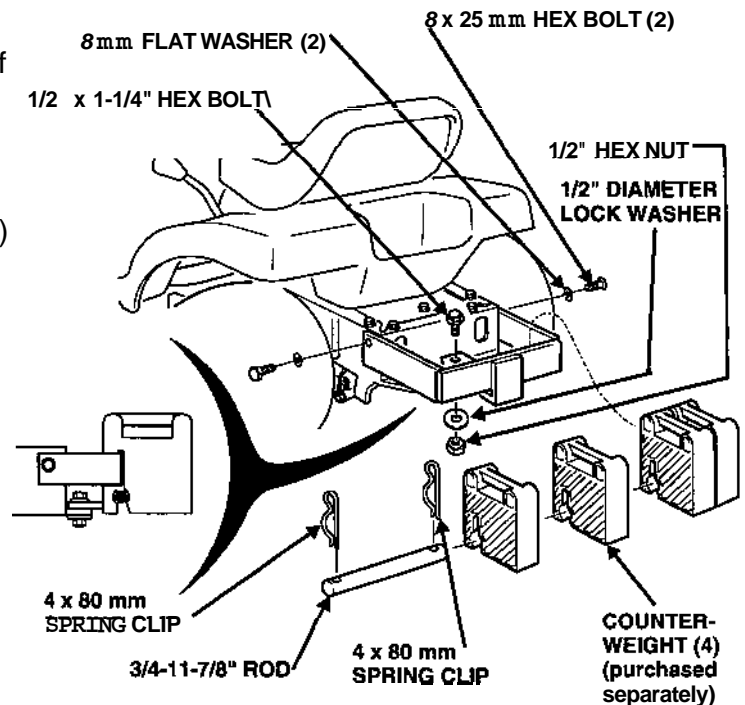


Counterweight Installation

Install the rear counterweight bracket to the rear of the lawn tractor frame as shown. Use two 8 x 25 mm hex bolts and 8 mm flat washers for the sides and a 1/2 x 1-1/4" hex bolt, 1/2" diameter lock washer and 1/2" hex nut for the center. Hang the four, 26 lb. counterweights (purchased separately) onto the bracket.

Install a 4 x 80 mm spring clip into one hole of the 3/4 x 11-7/8" inch rod.

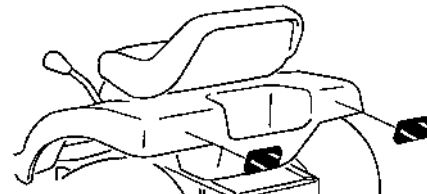
Position the other tip of the rod through the rounded slots in the counterweights, then secure the rod in place by installing a 4 x 80 mm spring clip in the remaining hole.




Install Rear Reflectors

Clean the rear fenders where the reflectors are to be installed.

Remove the protective backing from the two reflectors and press them firmly onto the rear fenders.



Verify Correct Installation

1. Make sure the height adjustment lever is all the way up and the PTO clutch lever is OFF.
2. Connect the spark plug cap, then start the lawn tractor and drive it off the 4 x 4" blocks. Drive the lawn tractor to a flat, level outdoor area.
3. Stop the lawn tractor, set the parking brake **ON**, and remove the ignition key.
4. Inspect the auger, discharge chute, subframe, **PTO** pulley assembly, snowblower drive belt and belt guards. Verify they are all correctly installed and all fasteners are securely tightened.
5. Sit in the operator's seat, then start the lawn tractor and leave the parking brake ON. After the engine has warmed up for at least a minute, move the throttle to  (FAST), then engage the PTO clutch lever.
6. Verify snowblower operation, then raise and lower the height adjustment lever up and down a few times. Move the PTO clutch lever to OFF, stop the lawn tractor's engine, and remove the ignition key.
7. Reinspect the auger, discharge chute, belt and pulley assembly and make sure they are not loose, broken or damaged.
- a. Inspect the belt path and make sure the snowblower drive belt is properly routed on all pulleys and belt guards. Verify the guard-pulley gap is set correctly on all belt guards.

Safety Recommendations

Introduction

1. The snowblower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.
2. Serious accidents which may cause injury or property damage can occur if the following safety guidelines are not followed. The operator is solely responsible for accidents or hazards that occur when using the snowblower. Preventing accidents is the responsibility of every equipment operator. Accidents can be prevented. Be careful before, during and immediately after use of any powered equipment. The following general safety precautions must be fully understood and followed during operation. Review these instructions frequently and never take chances. If you do not understand any part of this manual or need assistance, contact your authorized, servicing Honda lawn tractor dealer.

Training

1. Read, understand and follow all instructions in this manual and on the snowblower before starting. To order a replacement manual, contact an authorized, servicing Honda lawn tractor dealer, or Honda Customer Service (page 45).
2. Read and understand the H2013 Owner's Manual.
3. Allow only responsible adults, who are familiar with the instructions, to operate the machine.
4. Know the location of all controls before operating the machine. Know how to stop the engine and attachment quickly in case of emergency. Familiarize yourself with all safety and operation labels on the machine and attachment. If these labels are damaged or not legible, clean or replace them.

Preparation

1. Wear proper clothing when operating the snowblower. Always wear sturdy footwear (preferably steel-toed shoes) and hearing protection during operation.
 - a) Wear heavy, leather gloves whenever working near or servicing any cutting edges on the snowblower.
 - b) Do not wear loose fitting clothing, jewelry, scarves, ties, etc., which may get caught in moving parts. Tie up or restrain long hair.
 - c) Do not operate the snowblower while barefoot.
 - d) Do not wear sandals
 - e) Wear long trousers.
 - f) Wear hearing protection.
 - g) Do not operate the snowblower when tired, ill, or under the influence of alcohol and/or other drugs.
2. Be prepared for an emergency. Keep a first aid kit and fire extinguisher handy. Keep emergency telephone numbers for ambulance, fire, hospital, doctor and rescue near your telephone.

Before Operation

1. Before each use, clear work area of objects such as rocks, toys, wire, sleds, etc., which could be picked up and thrown.
2. Keep the snowblower in safe operating condition. Check the following each time before use:
 - a) All hardware for tightness (refer to the torque table for details).
 - b) Inspect auger and fan blades for wear or damage. Broken pieces thrown from worn or damaged auger or fan can cause serious injury.
 - c) Check for and maintain correct lawn tractor tire pressure. Check tires for cuts or bubbles. Check wheels for damage or for missing hardware. Repair or replace as required.
 - d) Check the engine oil level and add oil as required. If oil level falls below the maximum fill mark, do not run engine.
3. Do not operate the snowblower without safety devices and shields in place and operating properly.
4. Use counterweights (purchased separately) for extra traction and proper balance.
5. Check the lawn tractor brake function frequently. Adjust and service as required.
6. The lawn tractor is equipped with a safety interlock system, designed to shut off the engine when the operator leaves the seat while an attachment is running or the parking brake is not engaged. If the interlock system is not working properly, repair it before operating the snowblower.

Correct any malfunction before using the snowblower or the lawn tractor.

Operation

1. When starting the lawn tractor engine:
 - a) Disengage the PTO.
 - b) Set the parking brake ON
 - c) Move the shift lever to NEUTRAL.
2. Remain seated when starting the lawn tractor engine and during operation. Operate with feet flat on the lawn tractor running boards at all times.
3. Keep hands, feet, face, hair and clothing away from rotating parts. Stop engine before unclogging chute.
4. When operating the snowblower:

Disengage the PTO lever, shut *off* engine, set the parking brake ON, remove the ignition key, and wait for *all* moving parts to stop before unclogging discharge chute or auger blades.
5. Run the snowblower for a few minutes after use to discharge any leftover snow; this will prevent freeze-up of the auger and/ or fan.
6. Disengage the PTO lever when transporting to work area, or when the snowblower is not in use.
7. Be aware of snowblower discharge direction and do not point it at anyone. Do not operate without discharge deflector in place.
8. If you strike a foreign object, disengage the PTO, shut off the engine, set the parking brake on, and remove the ignition key. Inspect for and repair any damage before operating the equipment again.
9. Never carry passengers. Passengers interfere with safe operation of the snowblower. Passengers could be struck by foreign objects and/or be thrown from the machine and could be severely injured.
10. Be sure the area is clear of other people before operation. Stop the machine if anyone enters the area. Do not operate the machine with children, pets, or other nearby.

11. As a general rule, do not operate the machine in reverse. If it is absolutely necessary to back up:
 - a) Disengage the PTO clutch.
 - b) Check the area on the ground directly behind the machine.
 - c) Continue to observe area down and to the rear while backing up.
12. Approach blind corners cautiously.
13. Always observe the terrain. Watch for and avoid obstacles, stay away from holes, ditches, soft or steep embankments and other potentially dangerous terrain.
14. Wet surfaces reduce traction and stability. Always maintain proper traction. Grip the lawn tractor steering wheel firmly.
15. Slow down before turning.
16. Watch out for traffic when operating near or crossing roadways.
17. Never leave a running machine unattended. Always disengage the PTO lever, set the parking brake ON, and remove the ignition key before dismounting.

Children

1. Accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the snowblowing activity. Never assume that children will remain where you last saw them.
2. Never allow children to operate the machine, even under adult supervision. Local regulations may restrict operator age. Allow only responsible adults, who are familiar with these instructions, to operate this unit.
3. Never carry children as passengers. They may fall off or be seriously injured or interfere with safe machine operation.
4. Keep children out of the work area and under the watchful eye of another responsible adult.
5. Be alert and turn off the machine if children enter the area.
6. Before and when backing up, look behind and down the operating area for small children.
7. Use extreme care when approaching blind corners, drifts, trees or other objects that may obscure vision.
8. Keep children away while performing maintenance or adjustments.

Slope Operation

1. Slopes are a major factor in loss-of-control and tip-over accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or feel uneasy on it, do not operate on a slope.
2. Remove obstacles such as rocks, tree limbs, etc.
3. Watch for holes, ruts, or bumps. Uneven terrain could overturn the lawn tractor.
4. Always remove snow up and down the face of slopes, never across. Do not operate near drop-offs, ditches, or embankments. The lawn tractor could suddenly overturn if a wheel goes over the edge of a cliff or ditch, or if an edge caves in.
5. Always use counterweights for stability and extra traction.
6. Do not turn on slopes unless necessary, and then, move the PTO clutch lever to OFF, then turn slowly and gradually downhill.
7. Do not start or stop suddenly when going up or down a slope. Keep all movement on slopes slow and gradual. Do not make any sudden changes in speed or direction. Use a low gear setting so you will not have to stop or shift while on the slope.
8. If the machine is unable to continue moving uphill, move the PTO clutch lever to OFF, check the area on the ground immediately behind the machine, watch the area to the rear, and proceed backward slowly.
9. Do not operate unit on steep slopes where there is a risk of an overturn. Do not operate the lawn tractor on slopes greater than 10% grade. Use a slope gauge to check the slope if you are not sure.
10. Use extra care when using this attachment. The extra weight can change the stability of the lawn tractor.
11. Do not try to stabilize the unit by putting your foot on the ground.
12. Do not park the machine on a hill.

Stopping

1. Before leaving operator's position or leaving the machine unattended:
 - a) Bring the lawn tractor to a complete stop.
 - b) Move the PTO clutch lever to OFF.
 - c) Lower the snowblower all the way down.
 - d) Set the parking brake ON.
 - e) Shut off the engine and remove the ignition key.
 - f) Wait for all moving parts to come to a complete stop.
2. Disengage the PTO clutch lever when transporting the lawn tractor or if the snowblower is not in use.

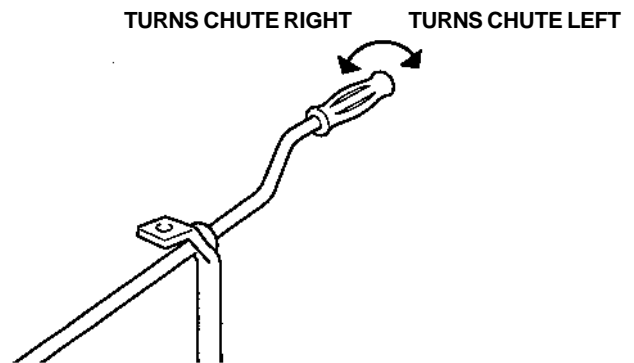
Maintenance

1. Before performing any service, adjustments or maintenance on the machine:
 - a) Park the machine on a firm, level surface.
 - b) Move the PTO clutch lever to OFF.
 - c) Lower the snowblower all the way down.
 - d) Move all control levers to NEUTRAL.
 - e) Set the parking brake ON.
 - f) Shut off the engine. Remove the ignition key. Allow the engine to cool.
2. Always wear sturdy footwear (preferably steel-toed shoes), long trousers, hearing and eye protection while performing maintenance on the machine. Do not wear loose fitting clothing, jewelry, scarves, ties, etc., which could get caught in moving parts. Tie up or restrain long hair.
3. Auger and fan blades are extremely sharp. Use caution when servicing. Wear heavy gloves.
4. Keep children away while performing maintenance or adjustments.
5. Keep nuts and bolts tight. Keep equipment in good condition.
6. Never tamper with safety devices. Check their proper operation regularly. Replace or repair as necessary.
7. Keep machine free of dirt and grim. Clean up oil or fuel spillage. Allow machine to cool before storing.
8. Frequently check components and replace when necessary. Use only factory-approved replacement parts. Parts manufactured by others may not be of the same quality.
9. Keep all safety and operation labels in place. If these labels are damaged or not legible, clean or replace them as needed.
10. Check the lawn tractor brake operation frequently. Adjust and service as necessary.
11. Chock lawn tractor wheels (place blocks of wood in front of and behind wheels) when performing maintenance with the parking brake off. Securely support unit if it must be raised for any reason.
12. Do not inflate the tires above recommended pressures. Use a clip-on chuck to inflate tires, with an extension long enough for you to stand to one side, and not over or in front of the tire assembly.

Controls

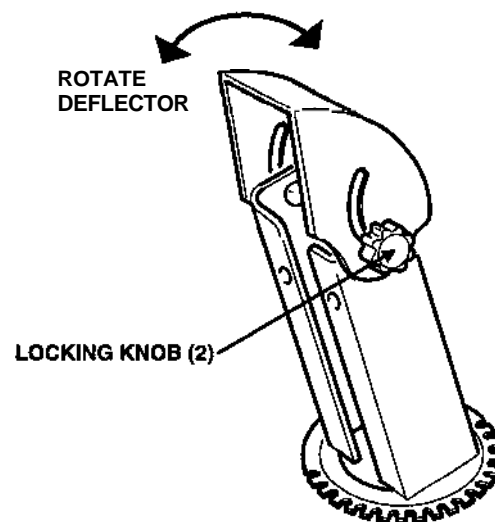
Discharge Chute Rotation Crank

Rotating this crank turns the discharge chute.



Discharge Chute Deflector

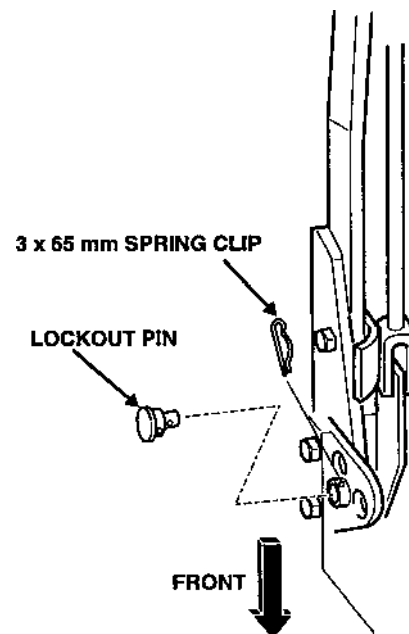
This determines the angle at which snow is discharged from the chute. The two locking knobs on the sides hold the chute at the desired angle.



Lockout Pin

The blowerhead pivots up and down on the subframe. Use the lockout pin to lock the blowerhead so it doesn't pivot. This is necessary when servicing, removing or installing the snowblower.

Get a helper to raise and lower the blowerhead so the lockout pin can be engaged or released. Always secure the lockout pin with the spring clip to prevent it from getting lost.



Preparing for Snow Removal

- Read the Safety Recommendations at the beginning of this section.
- Park the lawn tractor on a flat, level surface, Engage the parking brake, and remove the ignition key.
- Make sure the auger blades, blower head and discharge chute are free of any debris or objects.
- Verify the four counterweights (sold separately) are installed and properly secured to the rear frame.
- If you have the optional tire chains installed, inspect them and make sure they are secure.
- Inspect the position of the two skid shoes, and make sure they are properly positioned for conditions. See page 34 for skid shoe adjustment.
- Verify that the tension on the drive belt is correct. See page 19 for details on inspecting and adjusting drive belt tension.

Position the Discharge Chute

You can adjust the angle and direction of the discharged snow. The angle must be set while the lawn tractor is parked and the engine is off.

To adjust the discharge angle:

1. Loosen the two locking knobs on either side of the discharge chute.
2. Position the deflector at the desired angle. Tighten the locking knobs.
3. You may need to experiment and readjust the deflector after a few trial runs.

To adjust the discharge direction:

4. Rotate the crank handle and turn the discharge chute to the desired position. The crank will not rotate a full 360 degrees.

Setting the Height Adjustment Lever

Lift and move the height adjustment lever to the desired position.

You can adjust the amount of effort required to raise the snowblower; see the **Maintenance** section for details.

Operating the Snowblower

⚠ WARNING

Read the lawn tractor owner's manual carefully. Be thoroughly familiar with the controls and proper use of the lawn tractor. Know how to stop the lawn tractor and disengage the controls quickly.



Never allow children to operate the snowblower. Never allow adults to operate the snowblower without proper instruction.

Do not allow anyone other than the operator on the lawn tractor.

Keep the area of operation clear of all people and pets.

Clothing worn by the operator should be fairly tight and belted. Loose clothing should not be permitted because of the danger of getting into moving parts.

Tie up or restrain long hair.

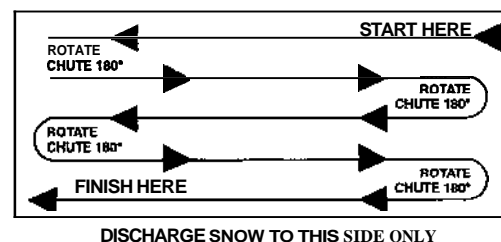
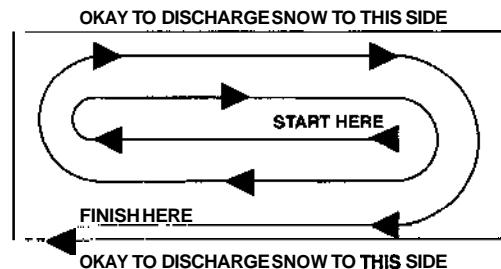
1. Start the lawn tractor. After the engine has warmed for at least a minute, move the throttle to  (FAST).
2. Verify that the blower head is properly positioned, then move the PTO clutch lever to ON.
3. Adjust the ground speed of the lawn tractor as needed. Use the shift lever to change ground speeds, never the throttle. For best performance, the throttle should always be set to  (FAST).

Snow Removal Methods

Use the following patterns to avoid discharging snow in unwanted locations and to prevent a second pass. For clarity, assume both methods are used on a rectangular area.

If you can discharge snow to both sides, it is best to start in the middle of the rectangle. Operate the snowblower from one end to the other, discharging snow to both sides. This method permits you to leave the discharge chute in the same position.

If you must discharge snow to only one side, start in one corner, then rotate the discharge chute with each pass. This method will require a bit more effort, but the snow will be discharge only to one side.




⚠ WARNING

You can be seriously injured by the fan or auger blades.

The blades spin and can cut or amputate your hand or fingers.

Never attempt to clear a clog with your hand; always use a stick at least 36" in length to clear a clogged discharge chute or auger.

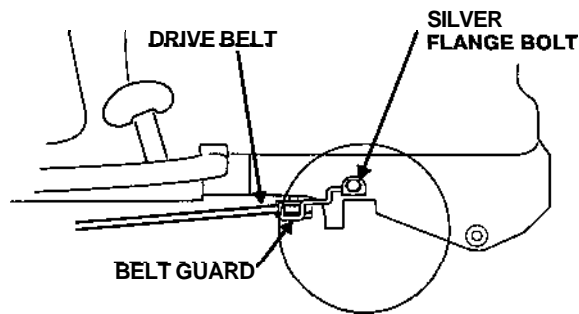
When removing snow, do not use the snowblower as a dozer blade to push snow. Let the snowblower work its way through deep drifts. If the travel speed of the lawn tractor is too fast, the snowblower may become overloaded and clog. For best results, raise the snowblower and remove a top layer of snow. A second pass will remove the remaining snow.

Always operate the lawn tractor with the throttle set to  **(FAST)**. Using other throttle settings can reduce performance and clog the discharge chute.

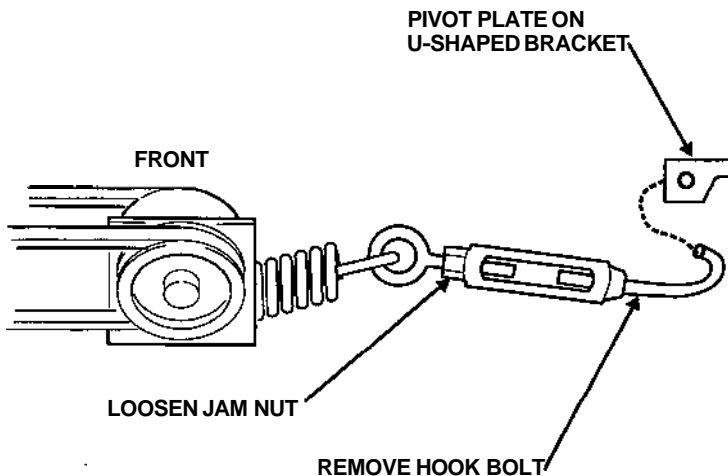
Removing the Snowblower

1. Make sure the PTO clutch lever is **OFF**.
2. Drive the lawn tractor to a flat, level surface, turn the engine off, remove the ignition key and set the parking brake ON. Disconnect the spark plug cap. Lower the height adjustment lever all the way down.
3. Raise the front tires and support them squarely on top of two 4 x 4" blocks of wood.

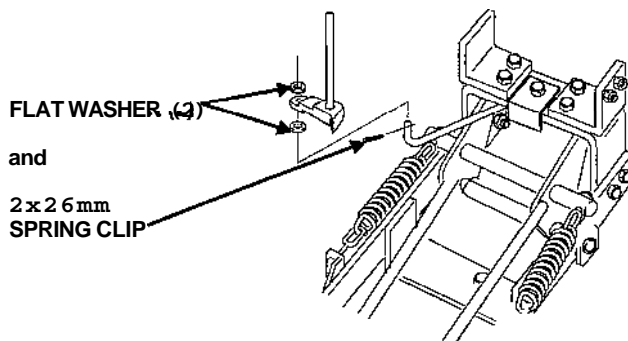
4. Remove the silver-colored bolt that holds the engine pulley belt guard to the right side of the lawn tractor frame. Allow the belt guard to fall down slightly, then remove the snowblower drive belt from the engine pulley.



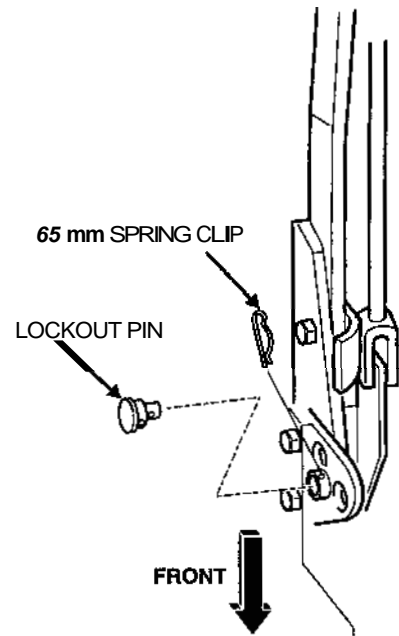
5. Loosen the jam nut on the belt tension turnbuckle, then lengthen the turnbuckle enough to disconnect the J-bolt from the **PTO** pivot plate.



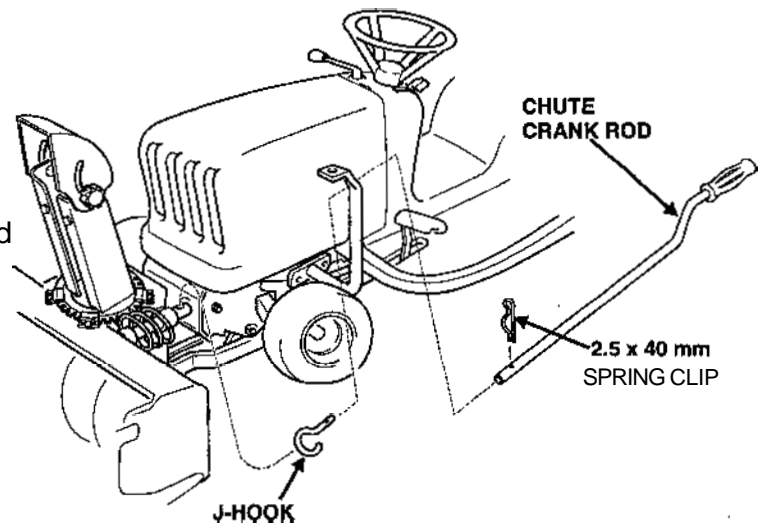
6. Remove the 2 x 40 mm spring clip and two flat washers from the PTO connecting rod where it is connected to the PTO pivot plate. Allow the rod to fall clear from the pivot plate. Retain the spring clip and washers when reinstalling the snowblower or the mower deck.



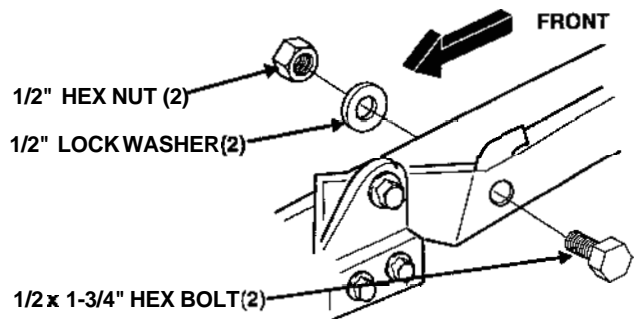
7. Remove the 3.5 x 80 mm spring clip from the lockout pin, then engage the lockout pin into the push frame. You may need to slightly raise or lower the blower head to get the holes in the push frame and subframe to line up; reinstall 3 x the spring clip when the lockout pin is engaged.



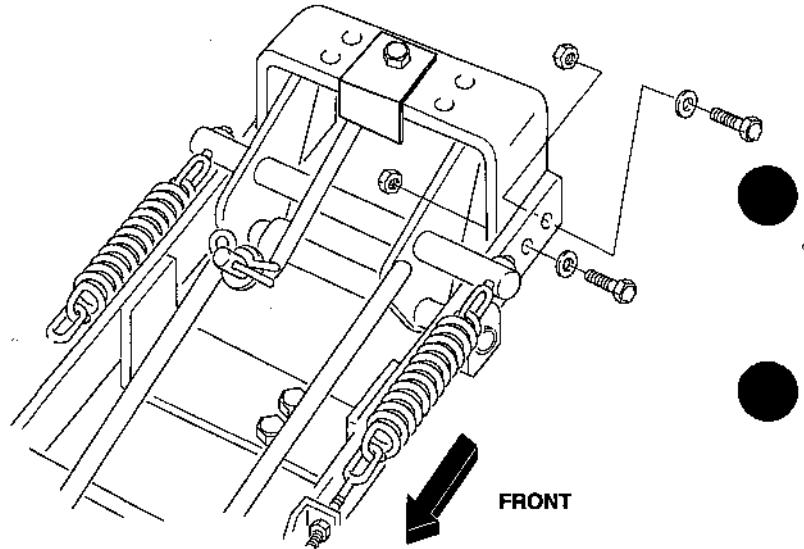
8. Remove the 2.5 x 40 mm spring clip from the J-hook end of the chute crank rod. Remove the rod from the crank support. Remove the J-hook from the worm gear, then store the J-hook on the chute crank rod with the spring clip.
9. If desired, you may optionally remove the crank support by removing the two 8 x 25 mm flange bolts from the support. Install the two bolts back into the frame.



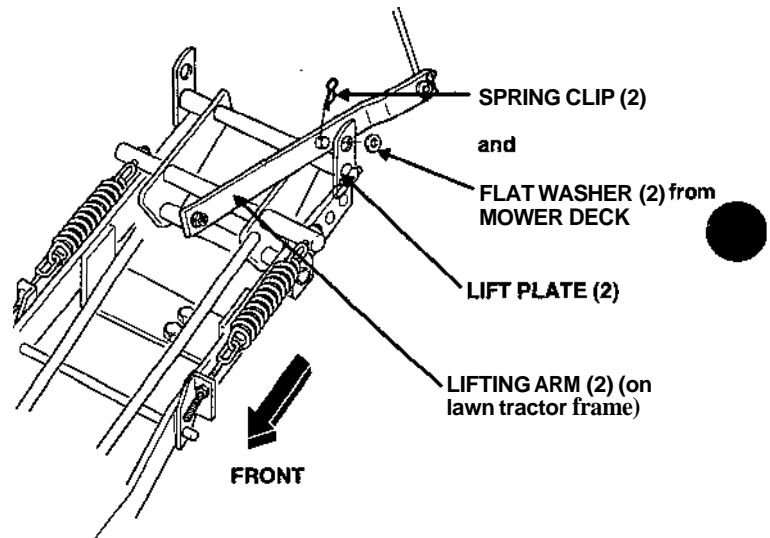
10. Raise the height adjustment lever all the way up; this will not be in the maximum position, so do not use excessive force.
11. Raise and support the blower head. Remove the two 1/2 x 3/4" hex bolts, 1/2" lock washers, and 1/2" hex nuts that hold the subframe to the lawn tractor frame. Adjust the support on the blower head to relieve any binding on the mounting bolts.



12. Lower the blower head slightly, then remove the four bolts that hold the u-shaped bracket to the subframe.

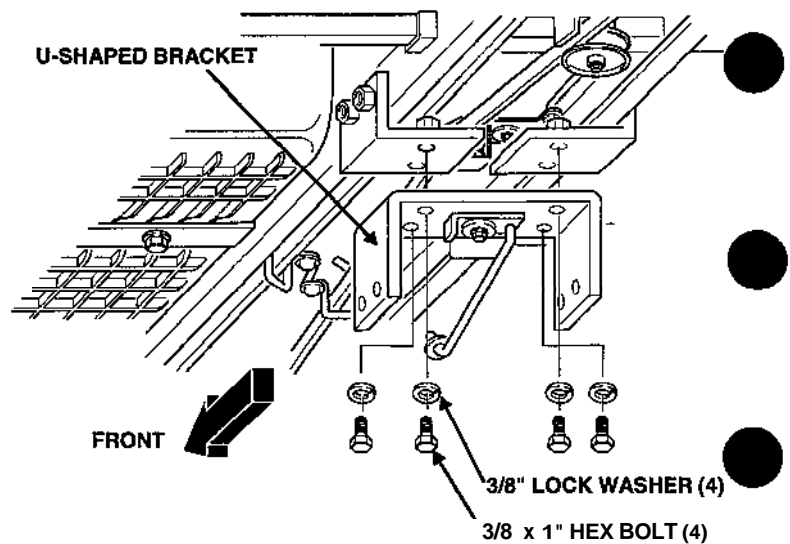


13. Remove the two spring clips and flat washers from the lift arms on the lawn tractor, then disconnect the two lift plates from the corresponding pins on the lift arms. Allow the lift plates to pivot and drop clear of the arms. Retain the clips and washers to reinstall the snowblower or mower deck.



14. Remove the snowblower from underneath the lawn tractor. Remove the four bolts that hold the u-shaped bracket to the two I-shaped brackets.

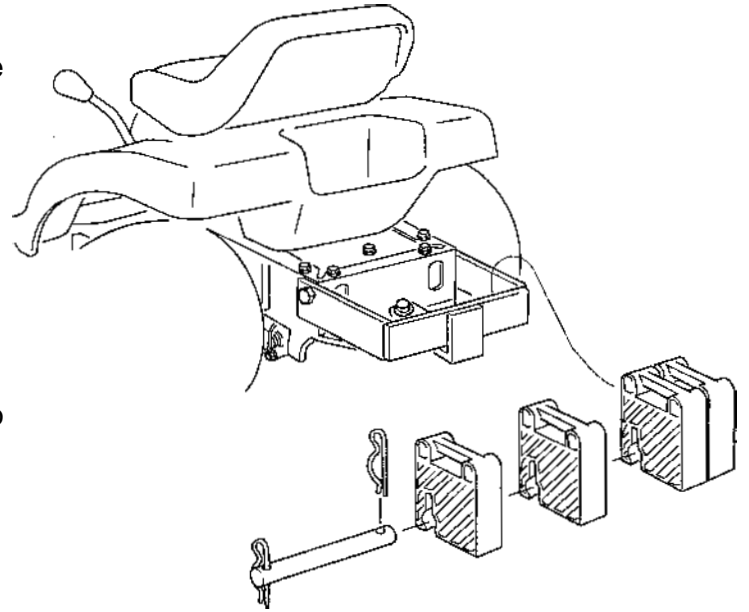
The two I-shaped brackets may remain on the lawn tractor frame; the brackets will not interfere with the installation and operation of the mower deck.



15. Remove one spring clip from the counterweight retaining rod, then remove the rod. Remove the four suitcase weights from the counterweight bracket.

The bracket may remain on the lawn tractor as desired. However, the bracket must be removed before the optional hitch or grass bag kit supports can be installed.

Follow the procedure in either the **H2013 Owner's Manual** or **H2013 Shop Manual** to install the mower deck.



Maintenance & Adjustments

Maintenance Schedule

What	When	Notes
Lubricate chains	Every two (2) hours	use chainsaw oil
Apply grease to antifriction ring	As needed	use general purpose grease
Apply grease to bushings	As needed	use general purpose grease
Apply grease to worm gear	As needed	use general purpose grease
Inspect and adjust PTO spring tension	Each use	adjust tension if needed

Adjustments

⚠ WARNING

You can be seriously injured by the fan or auger blades.

The blades spin and can cut or amputate your hand or fingers.

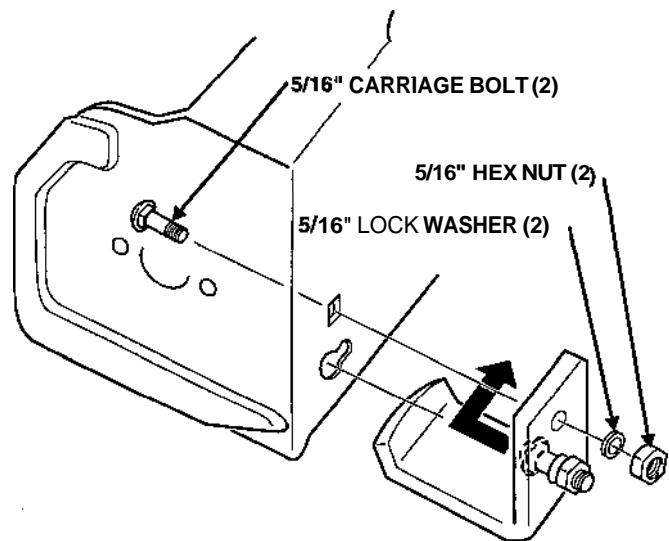
Always stop the engine, remove the ignition key, set the parking brake ON, and disconnect the spark plug cap before attempting any maintenance or adjustments.

For best possible performance, the SB2040 features a number of adjustments:

Skid Shoes

The skid shoes should be adjusted based on the type of ground surface. For level, paved surfaces, adjust the skid shoes to permit 5.0 - 6.5 mm (3/16" - 1/4 inch) of clearance between the bottom edge of the blower head and the ground. For uneven or gravel surfaces, set the clearance to 13.0 - 16.0 mm (1/2" - 5/8 inch).

To adjust the skid shoe position, loosen (don't remove) the two hex nuts on the skid shoe, position the shoe as needed, then tighten the hex nuts. Recheck the measurement and repeat if necessary.

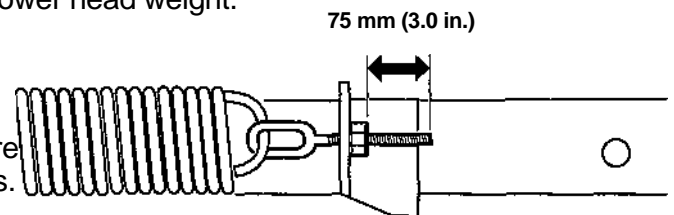


Height Adjustment Lever Effort

You may vary the amount of effort required to raise the blower head with the height adjustment lever. This is done by lengthening or shortening the exposed threads on the two counterbalance spring adjustment bolts. This balances the weight of the blower head against the springs, making the blower head easier (or harder) to lift with the height adjustment lever.

However, if the blower head does not have enough weight, it may float above the surface of the snow. For this reason, the recommend setting is to leave 75 mm (3 inches) of exposed thread. This setting offers a good compromise between lifting effort and blower head weight.

To decrease lifting effort, increase the length of the exposed threads by tightening the hex nut on each bolt. To increase effort, loosen the hex nut on each bolt. When making any adjustments, always make sure the length of exposed thread is the same for both bolts.



Blower Head Angle

You may adjust the angle of the lower edge of the blower head. This adjustment will allow the blower head to tilt forward or backward slightly.

Engage the lockout pin (page 11). Locate and loosen (don't remove) the four 7/16" hex bolts that attach the blower head to the push frame (see illustration at top of page 10). Hold the blower head at the desired angle and tighten the four bolts securely. Disengage the lockout pin.

Lubrication

Chain

The drive belt operates two chains inside the blower head. One chain runs the discharge fan and the other drives the auger. Both chains must be lubricated on a regular basis for proper operation.

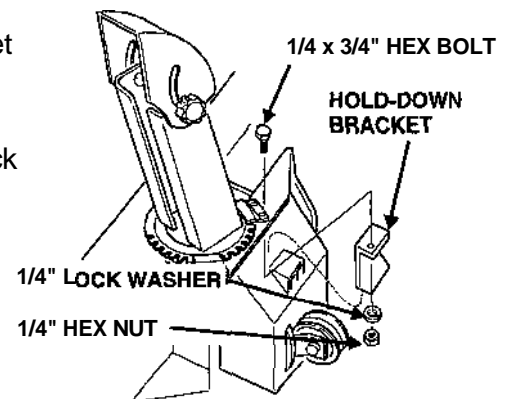
Always park the lawn tractor on a flat, level surface, engage the parking brake, and remove the ignition key before attempting to lubricate any of the chains.

Auger Drive Chain: Apply chain saw oil to the main auger sprocket and chain located on the right side of the blower head. Put on heavy gloves and turn the auger to lubricate the rest of the chain.

Discharge Fan Chain: Remove a 1/4" hex bolt, retaining plate, lock washer, hex nut and chain cover hold-down bracket from the right rear of the discharge chute.

Remove the plastic chain cover from the rear of the blower head to expose the discharge fan chain.

Apply chain saw oil to the two sprockets and chain. Installation is the reverse of removal.



Discharge Chute & Worm Gear

Apply a liberal amount of general purpose grease to the outer edge of the antifriction ring on the base of the discharge chute. Apply grease to the worm gear and the sector on the discharge chute.

Bushings

Apply a liberal amount of general purpose grease to the insides of the worm gear bushings and the crank handle bushing. Wipe away any excess grease from the outside of each bushing.

Other Maintenance Items

Shear bolt Replacement

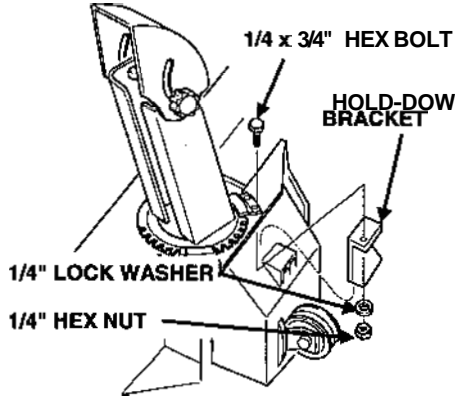
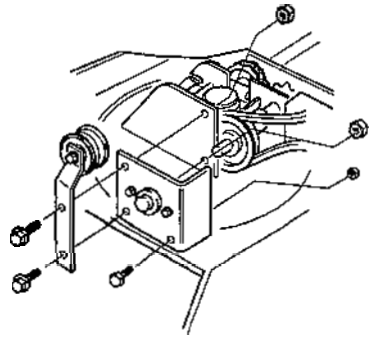
The auger and discharge fan both have special shear bolts that are designed to break if either the auger or fan are put under an excessive load. In the event a shear bolt does break, replace it with the bolt specified here:

Fan, 5 x 40 mm with 1/2" shoulder, SAE Grade 8, Auger, 5 x 45 mm with 1/2" shoulder, SAE Grade 8. See **Blower Head** in the parts listing for the locations of the shear bolts.

Belt Replacement

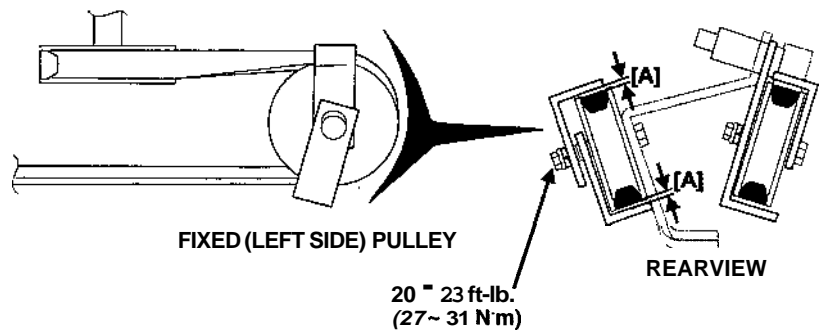
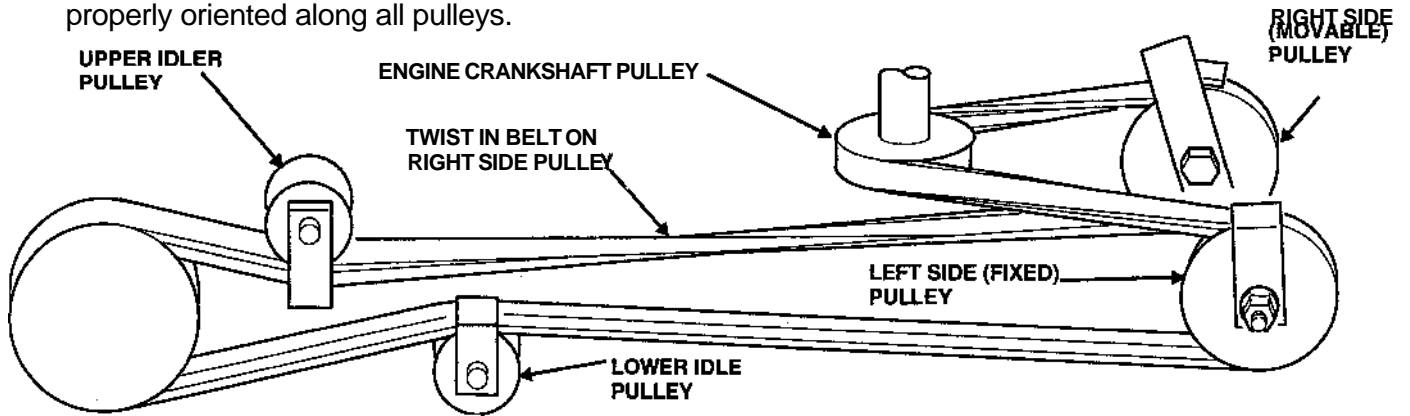
While it is **not** necessary, removing the snowblower from the lawn tractor makes this job much easier. See page 30 for the snowblower removal procedure.

Remove the Old Belt

1. If the snowblower remains on the lawn tractor, remove the silver, 10 mm flange bolt on the right side of the lawn tractor frame that holds the snowblower drive belt guard. Remove the snowblower drive belt from the engine pulley.
 2. Remove the two bolts, lock washers and flat washers from the right rear discharge chute retaining plate. Remove the retaining plate and the chain cover hold-down bracket.
 
 3. Loosen the center bolt on the idler pulley (mounted to the blower head) enough to move the belt guard out of the way, then remove the old belt from the pulley.
 4. Remove three 5/16 x 3/4" hex bolts holding the idler pulley bracket and side plate.
 5. Remove the four 5/16 x 3/4" carriage bolts that support the pulley shaft bearings.
 6. Remove the pulley shaft from the blower head to remove the old belt.
 7. Loosen (don't remove) the center bolts from the **PTO** clutch pulley and return pulley on the subframe. Remove the old belt from both pulleys.
- 

Install the New Belt

1. Installation is the reverse of removal. Refer to the illustration here to make sure the new belt is properly oriented along all pulleys.

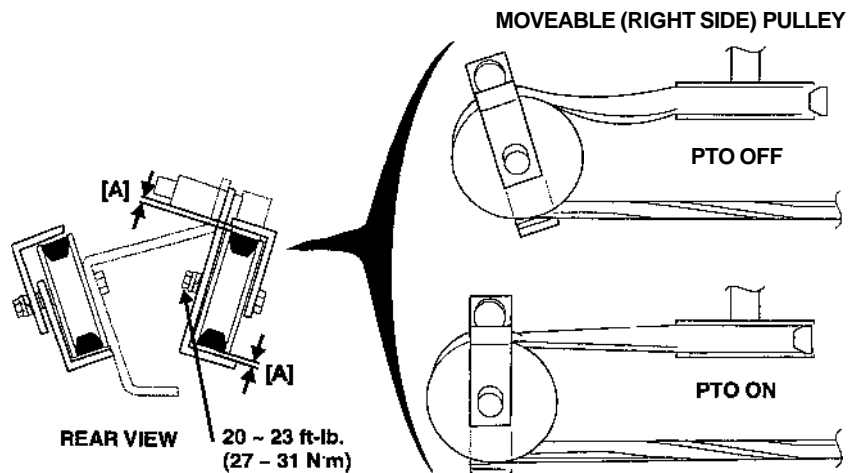


2. Make sure the belt guards are correctly positioned as shown. Tighten the center bolt on each pulley to 27 - 31 N·m (20 - 23 ft.-lb.).

There should be a 3 - 5 mm (1/8 - 3/16") gap [A] between each guard and pulley.

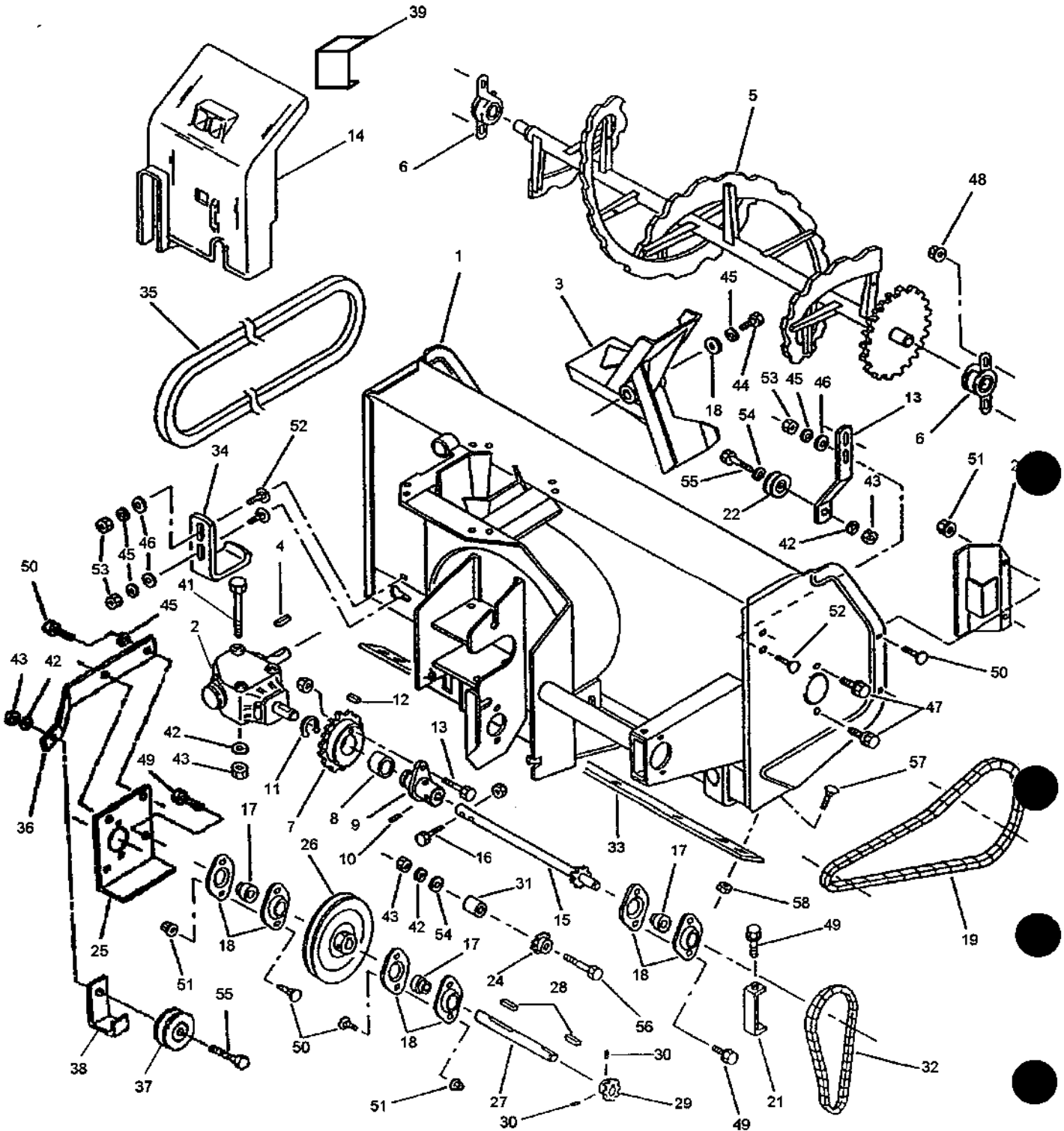
Belt Tension Adjustment

1. Adjust the belt tension as described on page 19.



Parts Listing

Blower Head & PTO Clutch Assembly

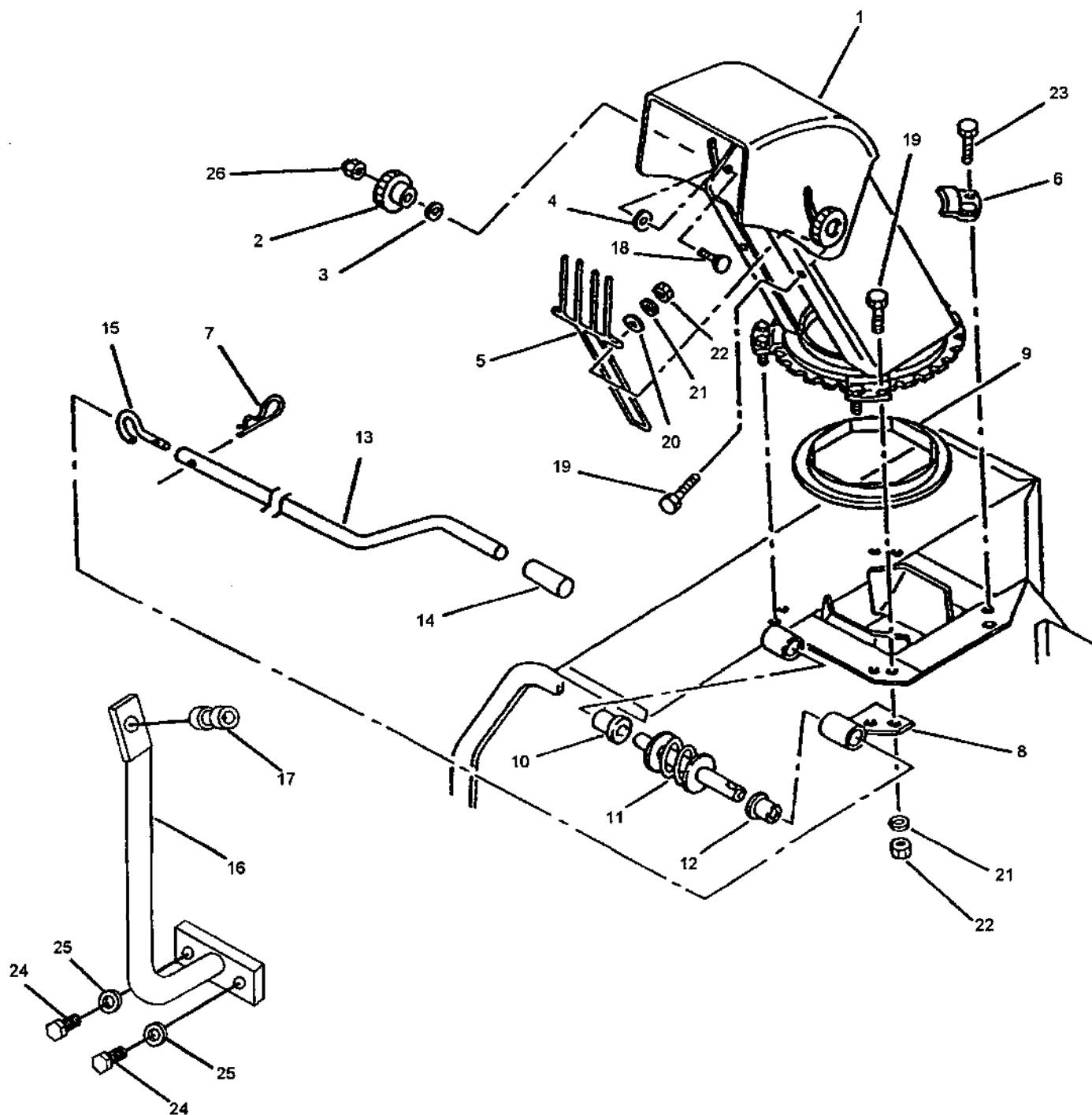


#	Description	Qty.	Part Number	Honda	Code	
1	blower frame comp		1		76710-771-S00	5251905
2	gearbo x assy		1		71205-771-S00	5251913
3	fan assy		1		72440-771-S00	5251921
4	key 8 x 7 x 35 mm		1		90764-771-S00	5251939
5	auger assy		1		72400-771-S00	5251947
5	bearing a		2		72428-771-S00	5251954
7	sprocket (40b28)		1		73561-771-S00	5251962
8	bushing		1		91575-771-S00	5251970
9	shear plate		1		76554-771-S00	5251988
10	set screw 5/16" nc x 5/16"		2		90114-771-S00	5251996
11	snap ring		1		91451-771-S00	5252002
12	key 8 x 8 x 35		1		90765-771-S00	5252010
13	shear bolt 5 x .8 x 40 & nyloc nut		1		90124-771-S00	5252028
14	cover, reduction		1		76736-771-S00	5252036
15	driven shaft		1		73556-771-S00	5252044
16	shear bolt 5 x .8 x 45 & nyloc nut		1		90125-771-S00	5252069
17	bearing b		3		91054-771-S00	5252077
18	bearing flange		6		73559-771-S00	5252085
19	chain (#40 x 91 w/master)		1		73571-771-S00	5252093
20	chain guard a		1		76718-771-S00	5252101
21	chain guard b		1		76719-771-S00	5252119
22	idler pulley		1		76723-771-S00	5252127
23	chain adjuster arm		1		76724-771-S00	5252135
24	idler sprocket		1		73563-771-S00	5252143
25	bearing support plate		1		76728-771-S00	5267513
26	pulley, driven(6")		1		22415-771-S00	5252168
27	driving shaft		1		73553-771-S00	5252176
28	key3/16" x 3/16" x 1"		2		90766-771-S00	5252184
29	sprocket(40b10)		1		73181-VE4-N00	5024468
30	set screw 1/4" nc x 1/4"		2		90118-771-S00	5252192
31	spacer, idler		1		73564-771-S00	5252200
32	chain (# 40 x 40 w/master)		1		73531-771-S00	5252218
33	scraper bar		1		76729-771-S00	5252226
34	skid shoe		2		76733-771-S00	5252234
35	belt, drive(b-12B)		1		22432-771-S00	5252242
36	bracket, idler pulley support		1		76737-771-S00	5252259
37	pulley a, idler		1		76743-771-S00	5251517
38	retainer c , belt		1		76762-771-S00	5251707
39	retainer, belt cover		1		63614-771-S00	5252267
-	decal set, (English)		1		87012771-500	5252275

Commercially Available Parts

#	Description	Qty.
3	bolt, hex 3/8" nc x 4"	3
4	washer, lock 3/8"	5
5	nut, hex 3/8"	5
8	bolt, hex 8 x 25 mm	1
9	washer, lock 5/16"	7
10	washer, flat 5/16"	7
13	bolt, flange 3/8" nc x 3/4"	4
14	nut, flange 3/8" nc	4
27	bolt, flange 5/16" nc x 5/8"	6
30	bolt, carriage 5/16"nc x 5/8"	6

Discharge Chute & Crank Rod

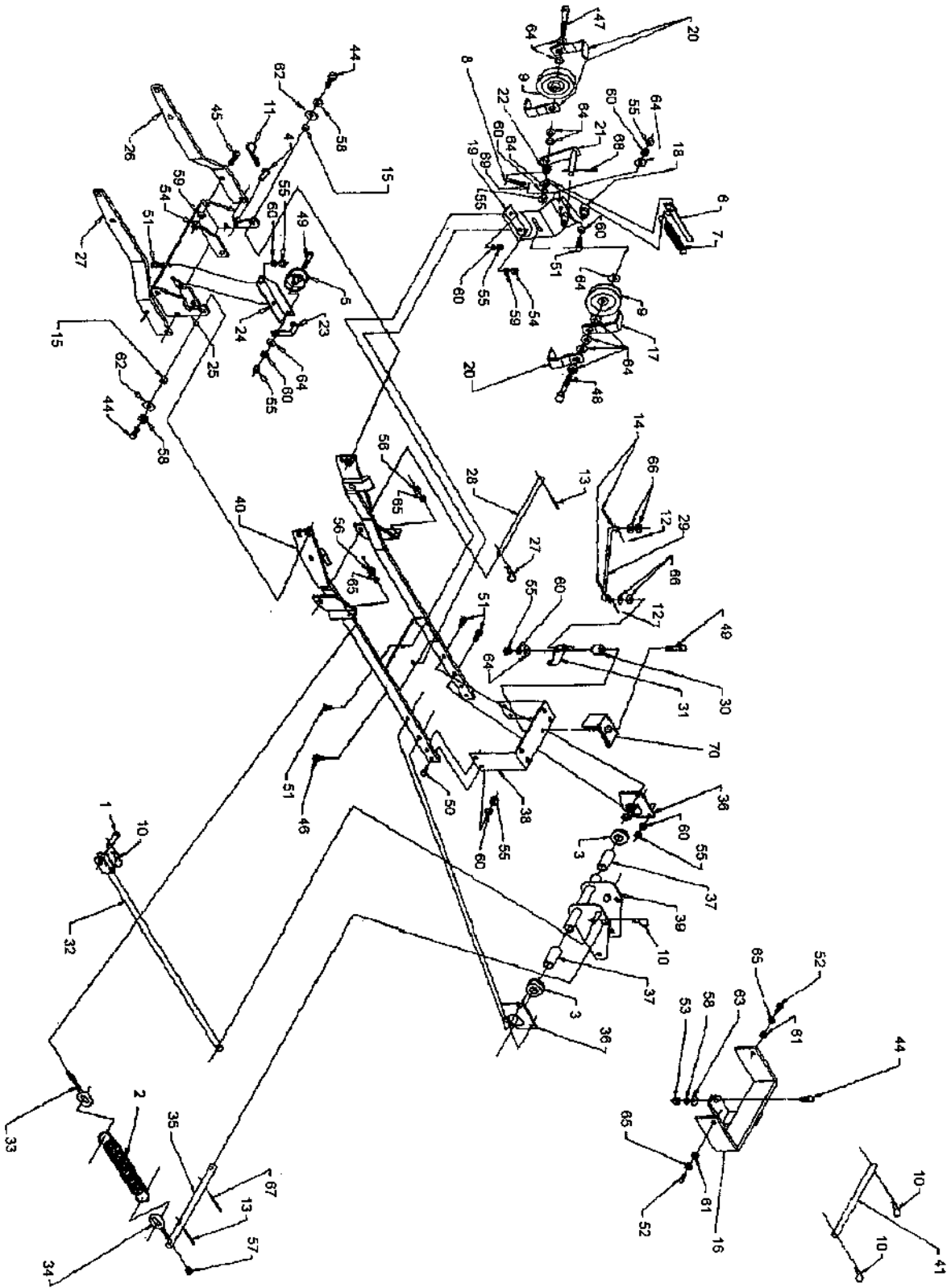


#	Description	Qty.	Part Number	Honda Code
1	chute & deflector assy	1	76310-771-S00	5252283
2	knob, 5/16"	2	76314-771-S00	5252291
3	washer, nylon flat 11/32"	2	90512-771-S00	5252309
4	washer, nylon flat 7/16"	2	90513-771-S00	5252317
5	hand guard	1	76317-771-S00	5252325
6	plate, chute retaining	4	76321-771-S00	5252333
7	hairpin cotter 2.5 x 40 mm	2	90767-771-S00	5252341
8	worm support	2	76341-771-S00	5252358
9	nylon ring	1	76325-771-S00	5252366
10	bushing, plastic 1-5/16"	1	91572-771-S00	5252374
11	rotation worm gear	1	76331-771-S00	5252382
12	bushing, plastic 1-11/16"	1	91573-771-S00	5252390
13	handle	1	76353-771-S00	5252408
14	handle grip	1	76351-VE4-N00	5024708
15	handle hook	1	76364-771-S00	5252416
16	support, chute rotation	1	76368-771-S00	5252424
17	grommet, plastic	1	76339-VE4-N00	5024443

Commercially Available Parts

#	Description	Qty.
18	bolt, carriage 5/16" nc x 1-11/2"	2
19	bolt, hex 1/4" nc x 3/4"	2
20	washer, flat 1/4"	2
21	washer, lock 1/4"	10
22	nut, hex 1/4" nc	10
23	bolt, hex 1/4" nc x 1 1/2"	6
24	bolt, hex 8 x 25 mm	2
25	washer, flat 5/16"	2

Subframe



#	Description	Qty.	Part Number	Honda Code
1	pin, clevis 5/8" x 1-5/8"	2	90768-771-S00	5251475
2	spring, counterbalance	2	76779-771-S00	5251483
3	bearing, ball	2	91053-771-S00	5251491
4	pin, clevis 1/2" x 1-1/16"	1	90755-771-S00	5251509
5	pulley A, idler	1	76743-771-S00	5251517
6	tension indicator	1	76746-771-S00	5251533
7	spring 1-1/8"x6-1/2"	1	76747-771-S00	5251541
8	spring 1/2" x 3-9/16"	1	76748-771-S00	5251558
9	pulley B, idler	2	76749-771-S00	5251566
10	hairpin cotter 4mm x 80mm	7	90761-771-S00	5251574
11	hairpin cotter 3mm x 65mm	1	90763-771-S00	5251582
12	hairpin cotter 2mm x 65mm	2	90756-771-S00	5251590
13	rollpin 1/8" x 1-1/2"	2	90757-771-S00	5251608
14	rollpin 1/8" x 3/4"	2	90758-771-S00	5251616
15	bushing, steel	2	91574-771-S00	5251624
16	brkt, counterweight support	1	76753-771-S00	5251632
17	retainer A, belt	1	76754-771-S00	5251640
18	brake, pto	1	76756-771-S00	5251657
19	brkt, pulley support	1	76757-771-S00	5251665
20	retainer B, belt	3	76758-771-S00	5251673
21	arm, tensioner	1	76759-771-S00	5251681
22	spacer, spring mounting	1	91570-771-S00	5251699
23	retainer C, belt	1	76762-771-S00	5251707
24	brkt, pulley support	1	76764-771-S00	5251715
25	brkt, subframe mounting	1	76766-771-S00	5251723
26	plate, blower mouting (RH)	1	76767-771-S00	5251731
27	plate, blower mounting (LH)	1	76768-771-S00	5251749
28	bar, belt protector	1	76769-771-S00	5251756
29	rod, clutch	1	76772-771-S00	5251764
30	spacer,	1	91571-771-S00	5251772
31	brkt, clutch pivot	1	76774-771-S00	5251780
32	lift arm	2	76776-771-S00	5251798
33	rod A, counterbalace adjust	2	76777-771-S00	5251806
34	rod B, counterbalace adjust	2	76778-771-S00	5251814
35	rod, tension	1	76782-771-S00	5251822
36	plate, bearing support	2	76783-771-S00	5251830
37	spacer, lift arm	2	76784-771-S00	5251848
38	brkt, subframe mounting	1	76786-771-S00	5251855
39	brkt, lift pivot	1	76787-771-S00	5251863
40	subframe	1	76741-771-S00	5251871
41	pin, counterweight retaining	1	76789-771-S00	5251889

Commercially Available Parts

#	Description	Qty.	#	Description	Qty.
44	bolt, hex 1/2" nc x 1-1/4"	3	57	nut, stove 5/16" nc	2
45	bolt, hex 7/16" nc x1-1/4"	4	58	washer, lock 1/2"	3
46	bolt, hex 7/16 nc x 1-	1	59	washer, lock 7/16"	5
47	bolt, hex 3/8" nc x 3"	1	60	washer, lock 3/8"	16
48	bolt, hex 3/8" nc x 2-1/2"	1	61	washer, lock 5/16"	2
49	bolt, hex 3/8" nc x 2"	2	62	washer, flat 9/16"	2
50	bolt, hex 3/8" nc x 1-1/4	4	63	washer, flat 1/2"	1
51	bolt, hex 3/8" nc x 1"	8	64	washer, flat 3/8"	12
52	bolt, hex m8-1.25 x 25	2	65	washer, flat 5/16"	2
53	nut, hex 1/2" nc	1	66	washer, flat 10 mm	4
54	nut, hex 7/16" nc	5	67	pin, cotter 1/8" x 1-1/4"	1
55	nut, hex 3/8" nc	15	68	pin, cotter 5/32" x 1"	1
56	nut, hex 5/16" nc	2	69	pin, cotter 5/32" x 3/4"	1

Optional Accessories

A number of optional accessories are available for use with the SB2040 Snowblower. See your authorized servicing Honda lawn tractor dealer for availability and pricing.

Tire Chains

Tire chains are available for the rear tires. These chains greatly improve traction and are strongly recommended when using the snowblower.

Headlight Kit

This is a single-lamp light kit that mounts to the crank support rod. The light connects with a lighting coil and wire that mounts to the engine flywheel. The light features an integrated, weather-resistant on/off switch and 50 watt halogen bulb.

Floor Mats

A set of rubber footwell mats are available for improved footing and grip.

Warranty Service Information

Honda Power Equipment dealership personnel are trained professionals. They should be able to answer any question you may have. If you encounter a problem that your dealer does not solve to your satisfaction, please discuss it with the dealership's management. The Service Manager or General Manager can help. Almost all problems are solved in this way.

If you are dissatisfied with the decision made by the dealership's management, contact Honda Power Equipment Customer Relations Office.

You can write:

American Honda Motor Co., Inc.
Customer Relations Office
4475A River Green Parkway
Duluth, Georgia 30136-2565

Or telephone:

(770) 497-6400 weekdays, 8:30 a.m. - 5:00 p.m. EST

When you call or write, please provide us the following information:

- Serial number (snowblower and lawn tractor frame)
- Name of the dealer who sold the snowblower to you
- Name and address of the dealer who services your snowblower or tractor.
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem

Current customer service contact information:

United States, Puerto Rico, and U.S. Virgin Islands:

Honda Power Equipment dealership personnel are trained professionals. They should be able to answer any question you may have. If you encounter a problem that your dealer does not solve to your satisfaction, please discuss it with the dealership's management. The Service Manager or General Manager can help. Almost all problems are solved in this way.

If you are dissatisfied with the decision made by the dealership's management, contact the Honda Power Equipment Customer Relations Office. You can write:

American Honda Motor Co., Inc.
Power Equipment Division
Customer Relations Office
4900 Marconi Drive
Alpharetta, GA 30005-8847

Or telephone: (770) 497-6400 M-F, 8:30 am - 5:00 pm EST

When you write or call, please provide the following information:

- Model and serial numbers
- Name of the dealer who sold the Honda power equipment to you
- Name and address of the dealer who services your equipment
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem

H/C: 4911210