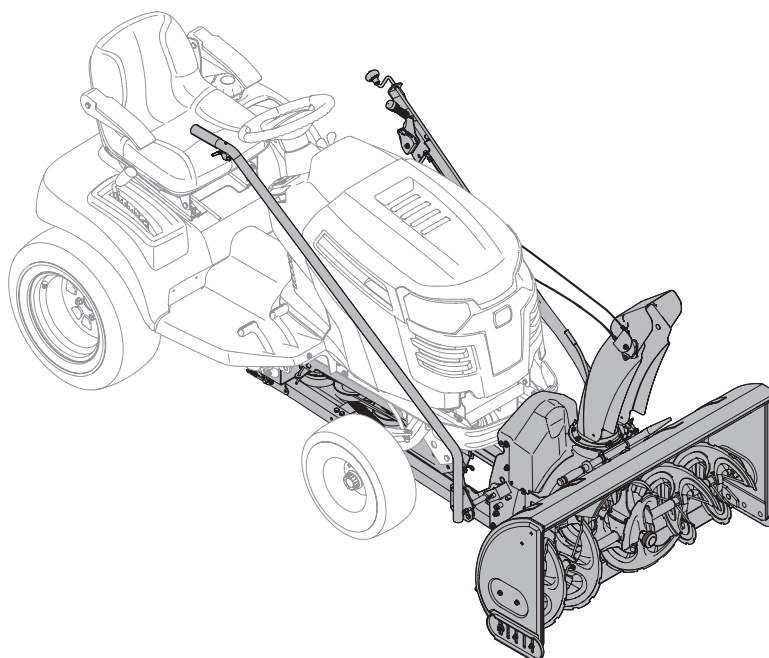


Cub Cadet[®]

OPERATOR'S MANUAL



Three-Stage Snow Thrower Attachment — 19A40023100

NOTE: This Operator's Manual covers several models. Features may vary by model. Not all features in this manual are applicable to all models and the model depicted may differ from yours.

⚠ WARNING

**READ AND FOLLOW ALL SAFETY RULES AND INSTRUCTIONS IN THIS MANUAL
BEFORE ATTEMPTING TO OPERATE THIS MACHINE.
FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.**

CUB CADET LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

Thank You

Thank you for purchasing this product. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual prior to operating the equipment. It instructs you how to safely and easily set up, operate and maintain your machine. Please be sure that you, and any other persons who will operate the machine, carefully follow the recommended safety practices at all times. Failure to do so could result in personal injury or property damage.

All information in this manual is relative to the most recent product information available at the time of printing. Review this manual frequently to familiarize yourself with the machine, its features and operation. Please be aware that this Operator's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

If applicable, the power testing information used to establish the power rating of the engine equipped on this machine can be found at www.opei.org or the engine manufacturer's website.

If you have any problems or questions concerning the machine, phone your local authorized service dealer or contact us directly. We want to ensure your complete satisfaction at all times.

Throughout this manual, all references to *right* and *left* side of the machine are observed from the operating position.

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Record Product Information

Before setting up and operating your new equipment, please locate the model plate on the equipment and record the information in the provided area to the right. You can locate the model plate by standing at the operator's position and looking down at the rear of the auger housing. This information will be necessary, should you seek technical support via our web site, Customer Support Department, or with a local authorized service dealer.

MODEL NUMBER

--	--	--	--	--	--	--	--	--	--	--

SERIAL NUMBER

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Customer Support

If you have difficulty assembling this product, have questions regarding the controls, operation, or maintenance of this machine, want to order replacement parts/attachments/accessories or want to view an online How-To video; you can seek help from the experts. Have your full model and serial number ready. Choose from the options below:

- ◇ **Web:** www.cubcadet.com/equipment/cubcadet/service-and-parts
- ◇ **Phone:** (800) 965-4CUB
- ◇ **Mail:** Cub Cadet LLC • P.O. Box 361131 • Cleveland, OH • 44136-0019



WARNING! This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol. **HEED ITS WARNING!**

CALIFORNIA PROPOSITION 65



WARNING! Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to State of California to cause cancer and birth defects or other reproductive harm.



DANGER: This machine was built to be operated according to the safe operation practices in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating fingers, hands, toes and feet and throwing foreign objects. Failure to observe the following safety instructions could result in serious injury or death.

Training

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
3. Never allow children under 14 years old to operate this machine. Children 14 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.
4. Never allow adults to operate this machine without proper instruction.
5. Thrown objects can cause serious personal injury. Plan your snow throwing pattern to avoid discharge of material toward roads, bystanders and the like.
6. Keep bystanders, pets and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
7. Exercise caution while operating tractor with this attachment, especially when traveling in reverse.

Preparation

1. Thoroughly inspect the area where the equipment is to be used. Remove all door mats, newspapers, sleds, boards, wires and other foreign objects which could be thrown by the auger/impeller.
2. Always wear safety glasses or eye shields during operation and while performing an adjustment or repair to protect your eyes. Thrown objects which ricochet can cause serious injury to the eyes.
3. Do not operate without wearing adequate winter outer garments. Do not wear jewelry, long scarves or other loose clothing which could become entangled in moving parts. Wear footwear which will improve footing on slippery surfaces.
4. Adjust collector housing height to clear gravel or crushed rock surfaces.
5. Disengage all clutches and shift into neutral before starting the engine.
6. Never attempt to make any adjustments while engine is running, except where specifically recommended in the operator's manual(s).
7. Let tractor engine and attachment adjust to outdoor temperature before starting to clear snow.

8. To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Wash your skin and change clothes immediately.
 - a. Use only an approved gasoline container.
 - b. Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground, away from your vehicle, before filling.
 - c. When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
 - d. Keep the nozzle in contact with the rim of the fuel tank or container opening at all times, until refueling is complete. Do not use a nozzle lock-open device.
 - e. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
 - f. Never fuel machine indoors.
 - g. Never remove gas cap or add fuel while the engine is hot or running.
 - h. Allow engine to cool at least two minutes before refueling.
 - i. Never over fill fuel tank. Fill tank to no more than ½ inch below bottom of filler neck to provide space for fuel expansion.
 - j. Replace gasoline cap and tighten securely.
 - k. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.
 - l. Never store the machine or fuel container inside where there is an open flame, spark or pilot light (e.g. furnace, water heater, space heater, clothes dryer etc.).
 - m. Allow machine to cool at least 5 minutes before storing.
4. Do not operate machine while under the influence of alcohol or drugs.
5. Muffler and engine become hot and can cause a burn. Do not touch.
6. Exercise extreme caution when operating on or crossing gravel surfaces. Stay alert for hidden hazards or traffic. Do not carry passengers.
7. Exercise caution when changing direction and while operating on slopes.
8. Do not clear snow across the face of slopes; go up and down. Exercise extreme caution when operating on slopes. Do not attempt to clear steep slopes.
9. Plan your snow throwing pattern to avoid discharge towards windows, walls, cars etc. To avoid property damage or personal injury caused by a ricochet.
10. Never direct discharge at children, bystanders and pets or allow anyone in front of the machine.
11. Do not overload machine capacity by attempting to clear snow at too fast of a rate.
12. Never operate this machine without good visibility or light.
13. Disengage power to the auger/impeller when transporting or not in use.
14. Never operate machine at high transport speeds on slippery surfaces. Look down and behind and use care when in reverse.
15. If the machine should start to vibrate abnormally, stop the engine, disengage the power take-off, lower the attachment and set the parking brake. Inspect thoroughly for damage. Repair any damage before starting and operating.
16. After striking a foreign object, stop the engine (motor), remove the wire from the spark plug, thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.
17. Disengage the power take-off, lower attachment, set the parking brake and stop engine before you leave the operating position. Wait until the auger/impeller comes to a complete stop before unclogging the discharge chute, making any adjustments, or inspections.
18. Do not carry passengers.
19. Use only attachments and accessories approved by the manufacturer (e.g. wheel weights, tire chains, cabs etc.).
20. If situations occur which are not covered in this manual, use care and good judgment. Contact your dealer or telephone 1-800-800-7310 for assistance and the name of your nearest servicing dealer.

Operation

1. Do not put hands or feet near rotating parts, in the auger/impeller housing or discharge chute. Contact with the rotating parts can amputate hands and feet.
2. Never operate with a missing or damaged discharge chute. Keep all safety devices in place and working.
3. When cleaning, repairing or inspecting the snow thrower, make certain the collector/impeller and all moving parts have stopped. Disconnect the spark plug wire and keep the wire away from the plug to prevent someone from accidentally starting the machine. Do not run the engine indoors, except when starting the engine and for transporting the snow thrower in or out of the building. Open the outside doors; exhaust fumes are dangerous.

Clearing A Clogged Discharge Chute

Hand contact with the rotating impeller inside the discharge chute is the most common cause of injury associated with snow throwers. Never use your hand to clean out the discharge chute.

To clear the chute:

- 1. SHUT THE ENGINE OFF!
- 2. Wait 10 seconds to be sure the impeller blades have stopped rotating.
- 3. Always use a clean-out tool, not your hands

Maintenance And Storage

- 1. Never tamper with safety devices. Check their proper operation regularly.
- 2. Disengage power take-off, lower the attachment, set the parking brake, stop engine and remove key to prevent unintended starting. Wait until the auger/impeller comes to a complete stop before cleaning, repairing, or inspecting.
- 3. Check bolts, and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage.
- 4. Do not change the engine governor setting or over-speed the engine. The governor controls the maximum safe operating speed of the engine.

- 5. Snow thrower shave plates and skid shoes are subject to wear and damage. For your safety protection, frequently check all components and replace with original equipment manufacturer's (O.E.M.) parts only. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
- 6. Check clutch controls periodically to verify they engage and disengage properly and adjust, if necessary. Refer to the PTO and safety interlock system in your tractor's operator's manual for instructions.
- 7. Maintain or replace safety and instruction labels, as necessary.
- 8. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
- 9. Prior to storing, run machine a few minutes to clear snow from machine and prevent freeze up of auger/impeller.
- 10. Never store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace ,clothes dryer etc.
- 11. Always refer to the operator's manual for proper instructions on off-season storage.

Safety Symbols

The safety symbols below may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate.

Symbol	Description
	WARNING— ROTATING BLADES Keep hands out of inlet and discharge openings while machine is running. There are rotating blades inside
	WARNING— ROTATING AUGER Do not put hands or feet near rotating parts, in the auger/impeller housing or chute assembly. Contact with the rotating parts can amputate hands and feet.



WARNING! Your Responsibility—Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

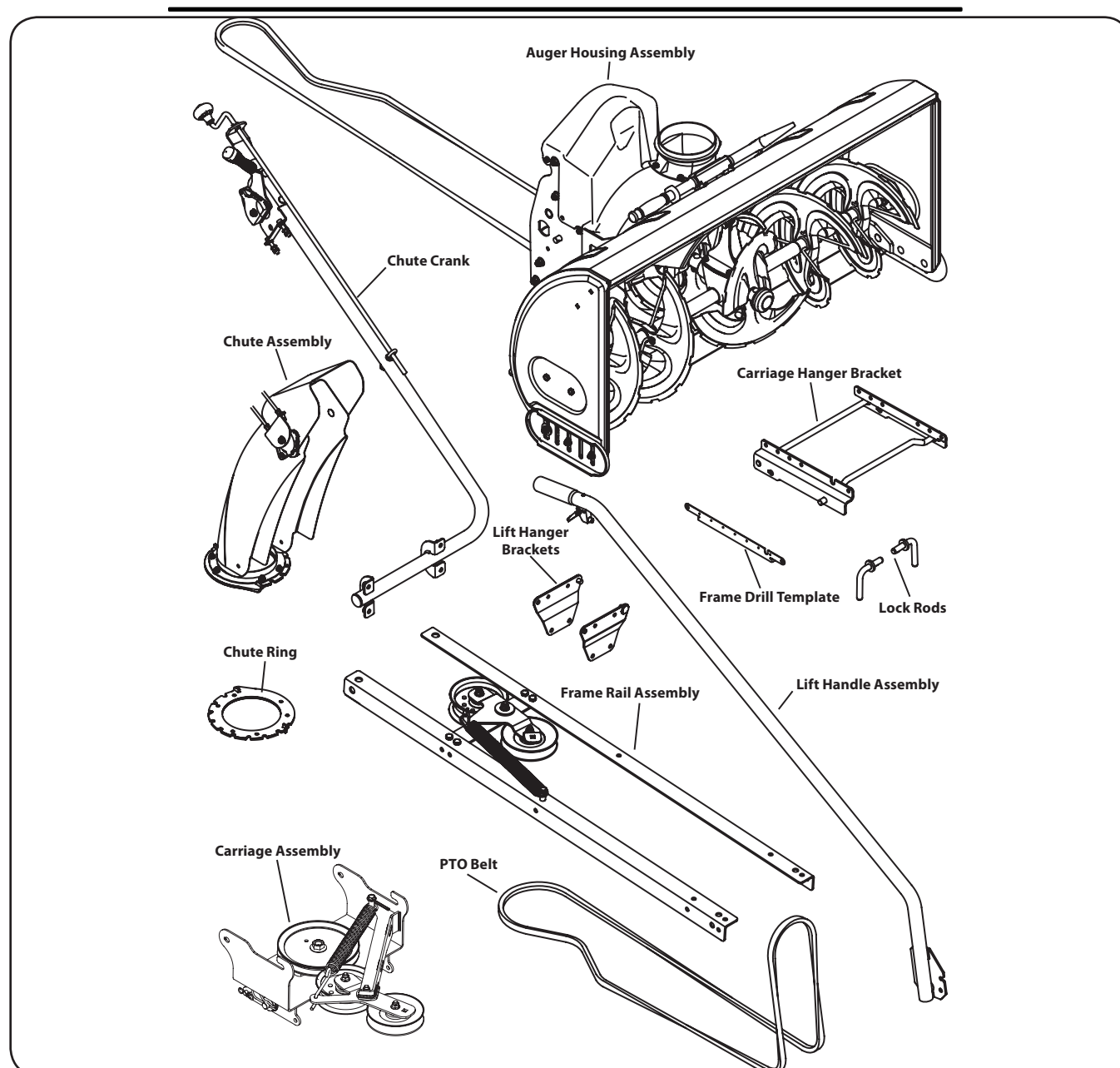
SAVE THESE INSTRUCTIONS!

Three-stage Snowthrower Attachment (19A40023100) is designed for use with select lawn tractors and garden tractors. Refer to your tractor's Operator's Manual to assure compatibility.

Carton Contents

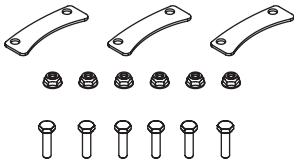
Before beginning installation, remove all parts from the carton to make sure everything is present. The Hardware Pack contains seven individual Hardware Bags. Do NOT open the individual bags until you reach the point in the assembly steps where the hardware is required.

- Operator's Manual (1)
- Lift Handle Assembly (1)
- Carriage Hanger Brackets (1)
- Lock Rods (2)
- PTO Belt (1)
- Auger Housing Assembly (1)
- Carriage Assembly (1)
- Chute Crank / Chute Assembly (1)
- Lift Hanger Brackets (2)
- Frame Rail Assembly (1)
- Frame Rail Assembly (1)
- Hardware Pack (1)
- Chute Ring (1)
- Frame Drill Template (1)

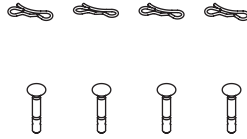


Hardware Pack

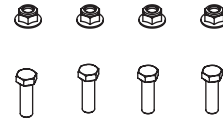
689-00350



689-00356



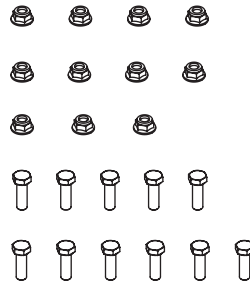
689-00364



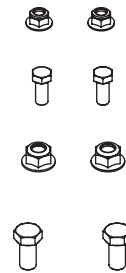
689-00353



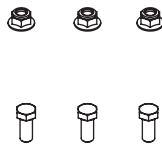
689-00363



689-00365



689-00355



WARNING! Before installing the attachment, place tractor on a firm and level surface. Place the PTO in the disengaged (OFF) position, set the parking brake, shut engine OFF and remove key to prevent unintended starting.

NOTE: References to LEFT and RIGHT indicate the left and right sides of the tractor when facing forward in the operator's position. Reference to the FRONT indicates the grille end; to the REAR the drawbar end.

Several components on your tractor must be removed prior to mounting the snow thrower attachment. Refer to Deck Removal in your tractor's Operator's Manual for detailed instructions. If your tractor is equipped with any front-end accessory (i.e. front bumper kit), it must also be removed.

Having a second person assist with assembly is not necessary, but will aid in completing some of the steps.

Assembly

Mounting the Lift Hanger Brackets

Use Hardware Bag (689-00364) to mount the front lift hanger brackets.

1. Using two $\frac{3}{16}$ " wrenches, remove the bumper hardware securing it to the frame. See Figure 3-1.

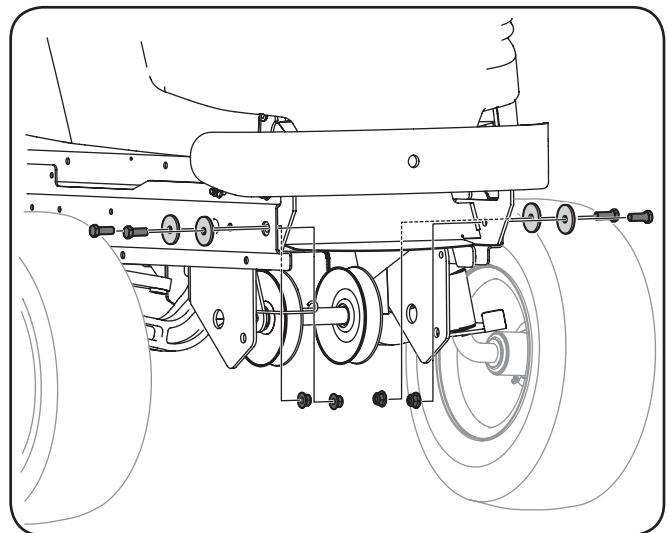


Figure 3-1

2. Using the four hex screws and flange lock nuts, secure the LEFT and RIGHT lift hanger brackets and the bumper to the frame as shown in Figure 3-2.

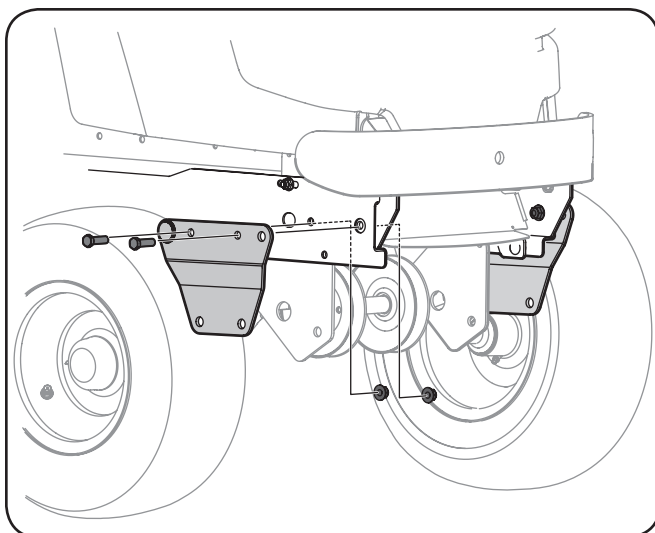


Figure 3-2

NOTE: The Lift Hanger Brackets can remain attached to the frame when the mowing deck is remounted to the tractor.

Attaching the Carriage Hanger Brackets

Use Hardware Bag (689-00363) to attach the rear carriage hanger brackets.

1. To mount the rear carriage hanger brackets a template is provided to drill additional needed holes. Using a hex screw and flange lock nut from the hardware bag, mount the template on the outside right of the frame. See Figure 3-3.

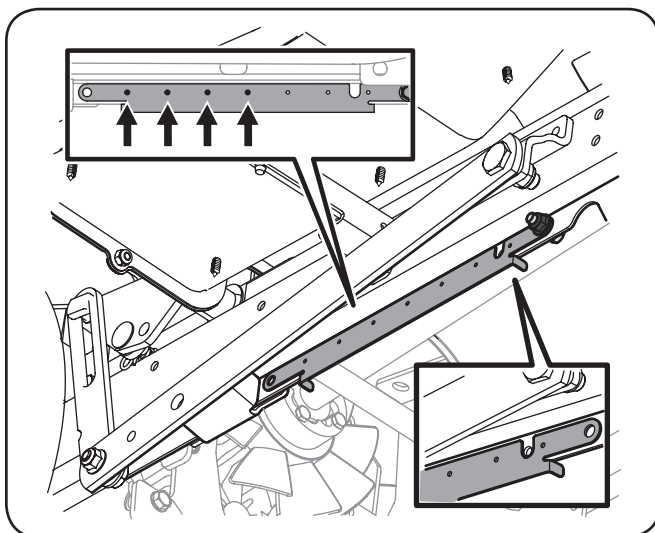


Figure 3-3

NOTE: The tabs on the bracket should be touching the bottom of the frame.

2. Using a $\frac{1}{32}$ " drill bit, drill the four $\frac{1}{8}$ " pilot holes shown in Figure 3-3.

3. When the holes are drilled, remove the template and mount on the outside left of the frame as shown in Figure 3-4.

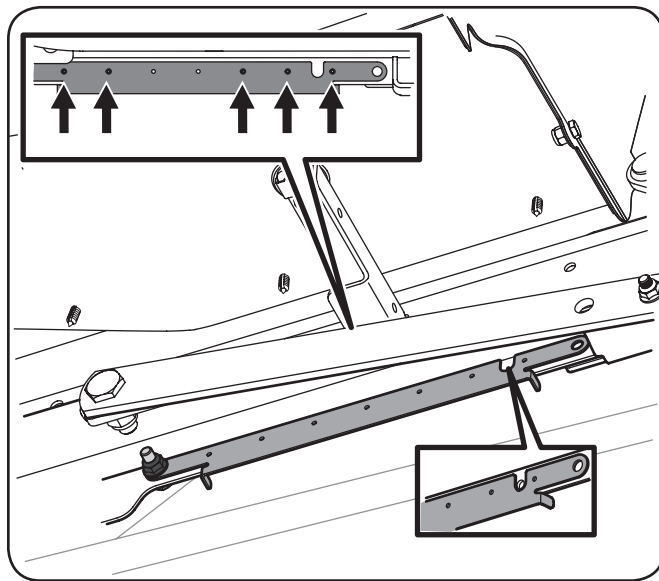


Figure 3-4

NOTE: Removing the bolt from the deck lift arm will make drilling the holes and mounting of the hanger bracket easier.

NOTE: The tabs on the bracket should be touching the bottom of the frame.

4. Using a $\frac{1}{32}$ " drill bit, drill the five $\frac{1}{8}$ " pilot holes marked in Figure 3-4.
5. Remove the template from the frame and secure the carriage hanger brackets to the tractor's frame with 11 hex screws (five on the right and six on the left) and flange lock nuts. See Figure 3-5.

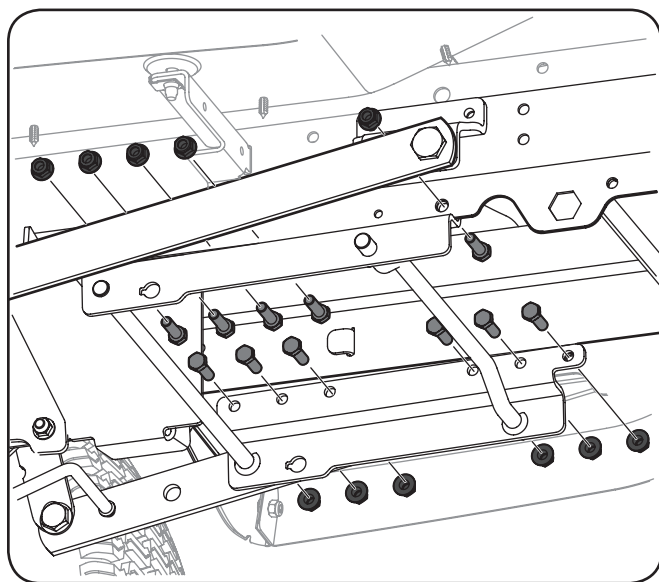


Figure 3-5

NOTE: The carriage support brackets **MUST** be removed from the frame when the mowing deck is remounted to tractor.

Mounting the Carriage Assembly

1. Remove the clevis pins and hairpin clips from the carriage assembly. Retain the clips and pins, as they will be used to attach components in later steps. See Figure 3-6.

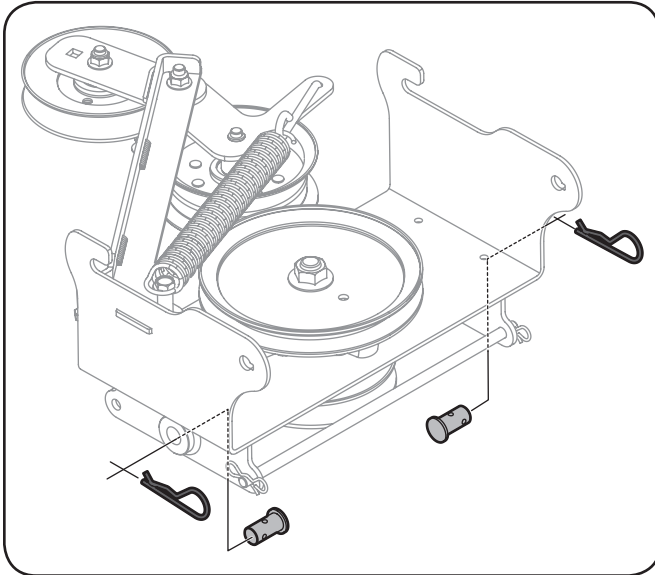


Figure 3-6

2. Remove the rod from the rear of the carriage assembly. Retain the clips and rod, as they will be reattached in later steps. See Figure 3-7.

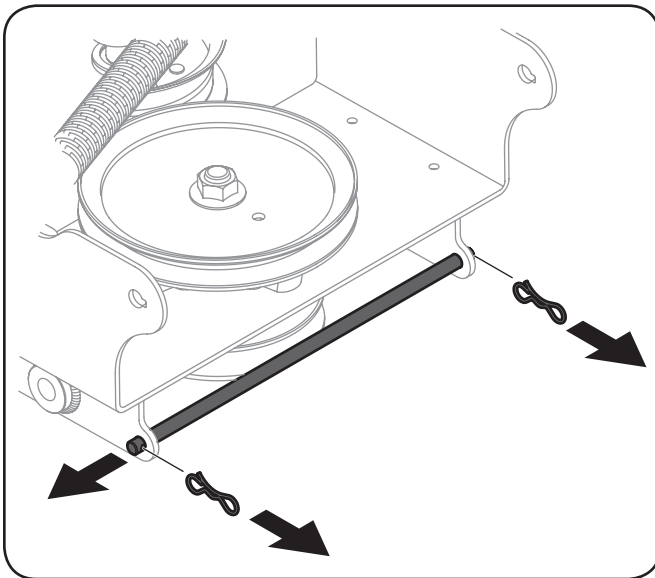


Figure 3-7

3. Place the deck lift lever in the highest setting.
4. Position the carriage beneath the tractor.

5. Carefully raise the carriage up and position the slots on the rear of the carriage over the pins on the support brackets. See Figure 3-8.

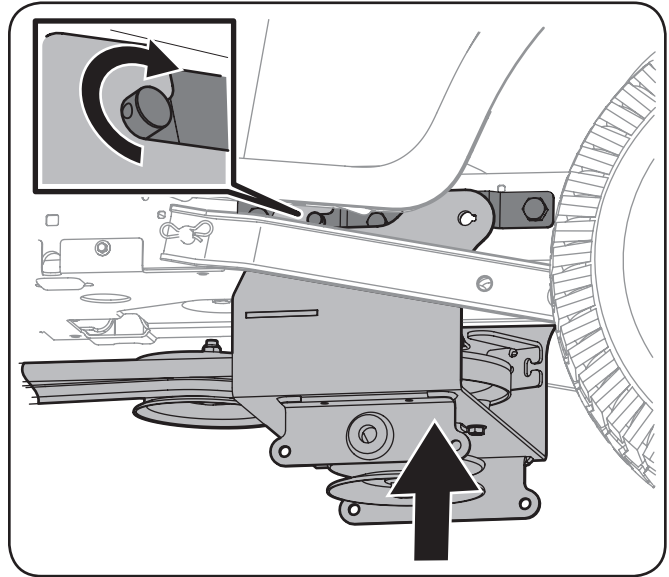


Figure 3-8

6. Secure the carriage in place with the two lock rods. See Figure 3-9.

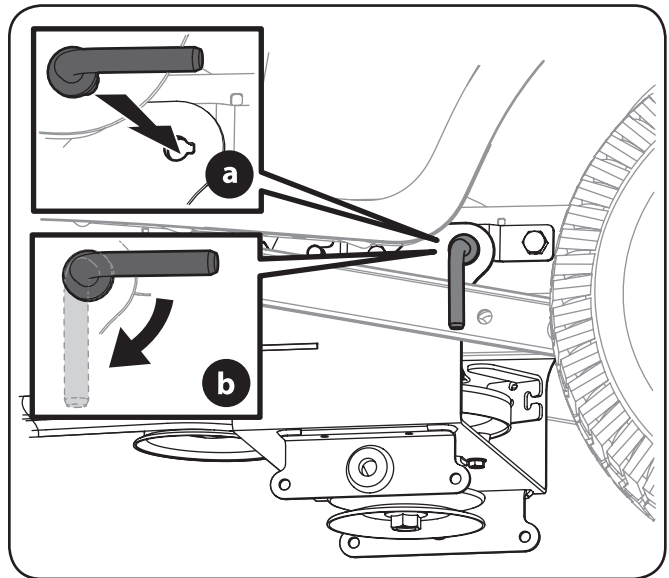


Figure 3-9

7. Working from the front of the tractor, route the belt around the PTO clutch pulley, with the 'V' side of the belt seated in the pulley. Carefully feed the belt downward and route it in the two mule drive pulleys. See Figure 3-10.

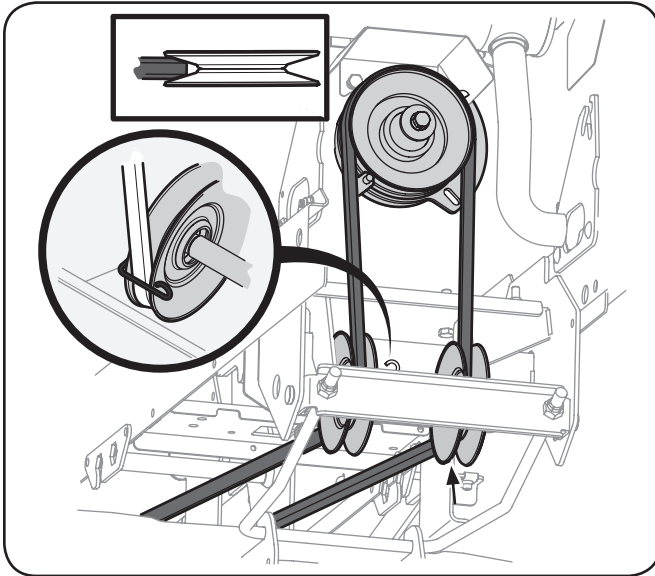


Figure 3-10

NOTE: The small belt keeper found on the right-hand mule drive pulley does NOT have to be removed in order to route the belt. Simply bend the keeper outward slightly and slip the belt past it and onto the pulley.

8. Feed the belt rearward, toward the carriage assembly.
9. Route the belt around the carriage assembly. See Figure 3-11.

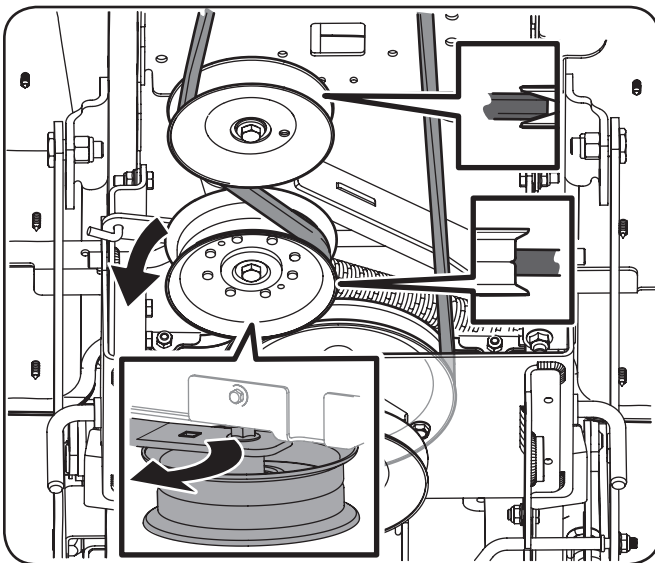


Figure 3-11

NOTE: To relieve tension on the idler pulley, insert a ratchet with a $\frac{3}{8}$ " drive into the square hole on the idler bracket and pivot the pulley outward.

IMPORTANT: Make certain that the flat side of the belt is positioned on the flat pulley, and the 'V' side of the belt is positioned on the V-Pulleys.

Attaching the Rail Assembly

Use Hardware Bag (689-00365) to attach the rail assembly.

NOTE: Having an assistant support and position the rail assembly will aid in completing the following step.

1. Carefully pivot the auger housing up and forward until the top front face of the housing is resting on the ground. Refer to Figure 3-13 and Figure 3-12
2. Using two $\frac{9}{16}$ " wrenches for the smaller rear bolts and flange lock nuts and two $\frac{3}{4}$ " wrenches for the larger front bolts and flange lock nuts, secure the rail assembly to the auger housing assembly. See Figure 3-12.

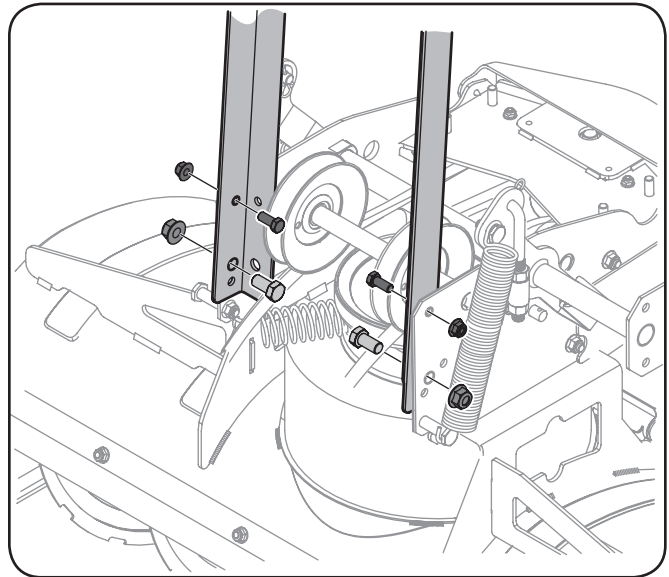


Figure 3-12

3. Route the auger assembly's belt around the rail assembly's idler pulleys. See Figure 3-13.

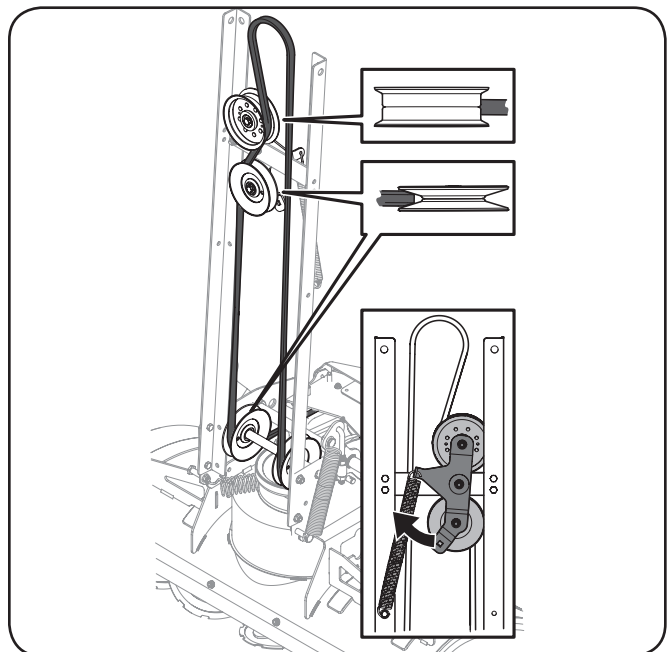


Figure 3-13

IMPORTANT: Make certain that the flat side of the belt is positioned on the flat pulley, and the 'V' side of the belt is positioned on the V-Pulleys.

NOTE: To relieve tension on the idler pulleys, insert a ratchet with a $\frac{3}{8}$ -inch drive into the square hole on the idler bracket and pivot it outward.

Attaching the Chute Crank Assembly

Use Hardware Bag (689-00353) to attach the chute crank assembly.

NOTE: Having an assistant support and position the chute crank assembly will aid in completing the following step.

1. Using a $\frac{9}{16}$ " wrench, secure the chute crank assembly to the auger housing assembly with four flange lock nuts. See Figure 3-14.

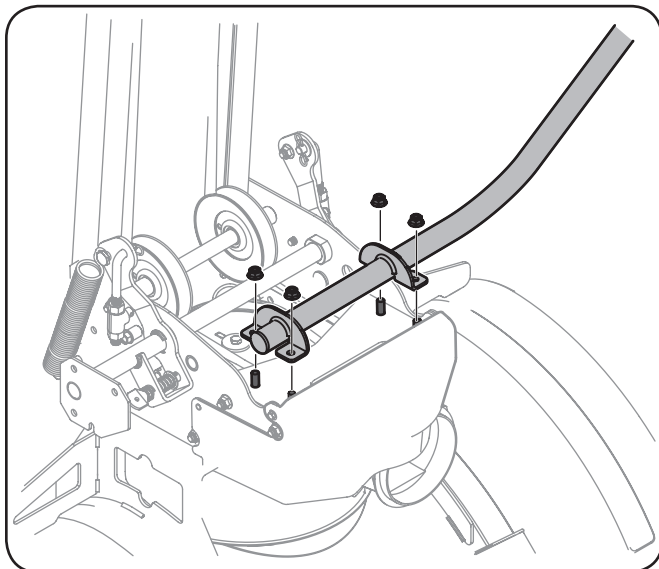


Figure 3-14

Attaching the Chute Assembly

Use Hardware Bag (689-00350) to attach the chute assembly.

NOTE: Having an assistant will aid in completing the following step.

1. While supporting the rail assembly, carefully pivot the auger assembly downward and position it in front of the tractor.
2. Position the chute ring on top of the auger housing's chute adapter. See Figure 3-15.

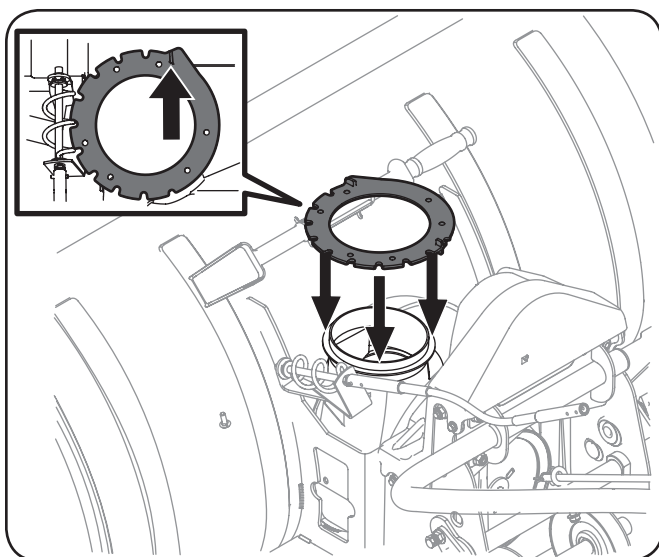


Figure 3-15

NOTE: Make sure the rib found in the chute ring is facing the FRONT.

3. Position the chute assembly (facing forward) on the chute ring. See Figure 3-16.

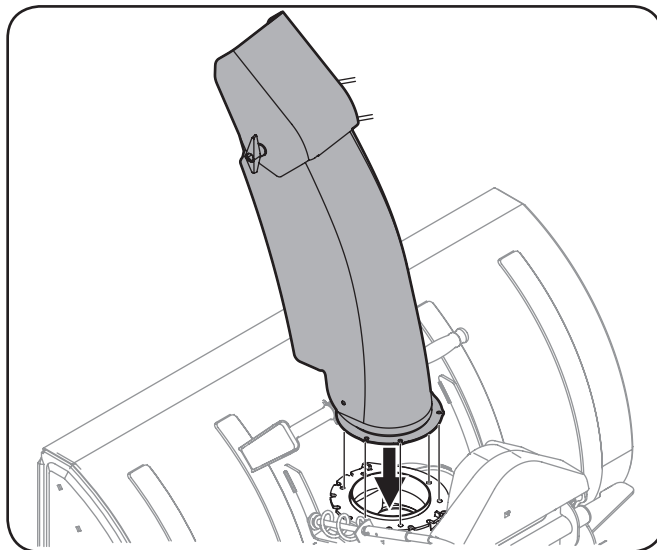


Figure 3-16

4. Using two $\frac{7}{16}$ " wrenches, secure the chute assembly to the chute ring with three flange keepers, six hex screws and flange nuts. Figure 3-17.

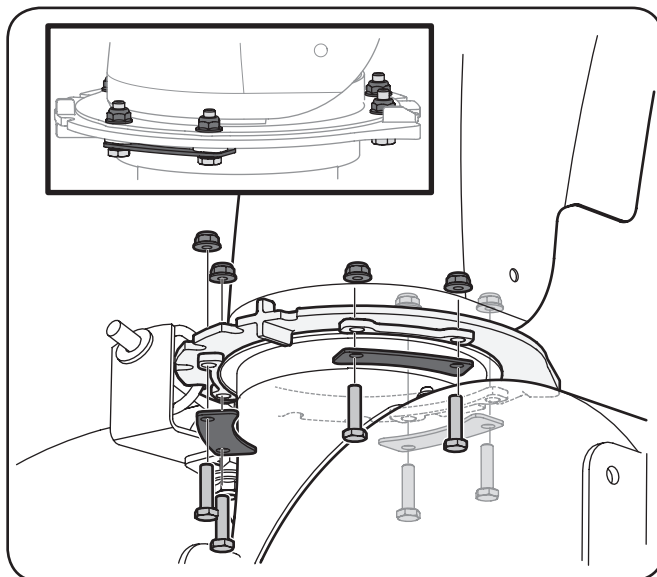


Figure 3-17

IMPORTANT: Do NOT over-tighten the flange keeper hardware. Doing so may result in the chute binding during rotation.

NOTE: After installing the first flange keeper, rotate the chute to more easily access the chute ring holes and install the next flange keeper.

5. Secure the flex shaft to the upper chute crank with the hair pin clip. See Figure 3-18.

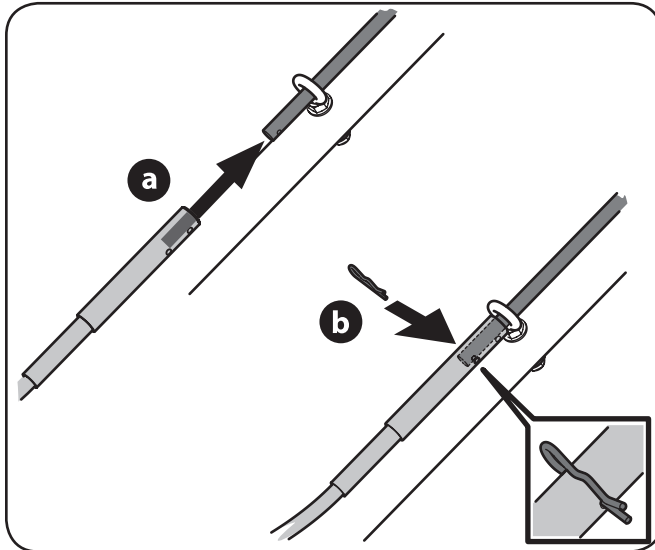


Figure 3-18

Attaching the Lift Handle Assembly

Use Hardware Bag (689-00355) to attach the lift handle assembly.

NOTE: Having an assistant support and position the lift handle assembly will aid in completing the following step.

1. Using two $\frac{5}{16}$ " wrenches, secure the lift handle to the auger housing assembly with three hex screws and flange lock nuts. See Figure 3-19.

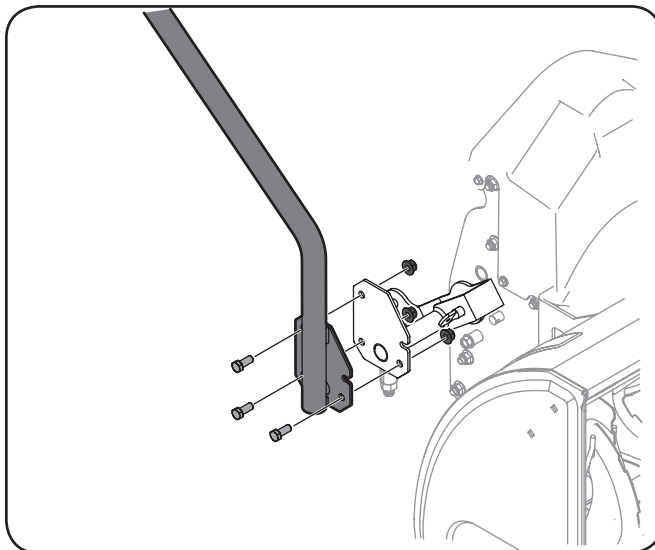


Figure 3-19

2. Position the cable housing in the notch on the lift handle. Attach the Z-fitting end of the lift cable to the lock rod found on the lift shaft assembly. See Figure 3-20.

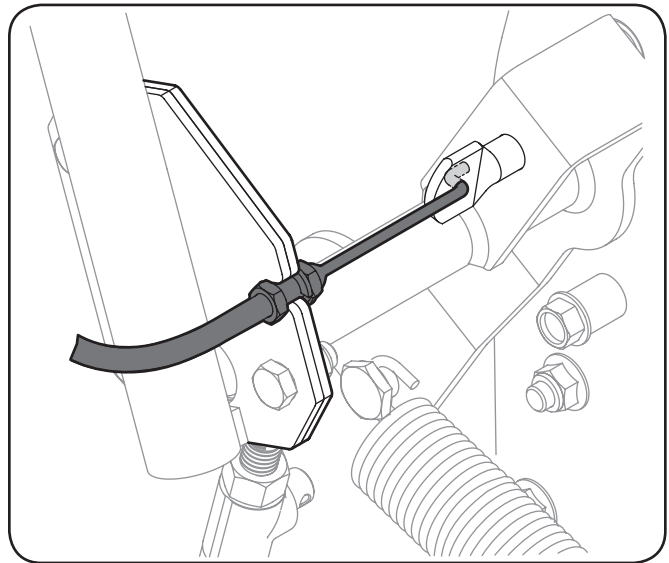


Figure 3-20

3. Pull the cable outward to take up slack, and tighten the jam nuts to secure the cable housing to the lift handle. See Figure 3-21.

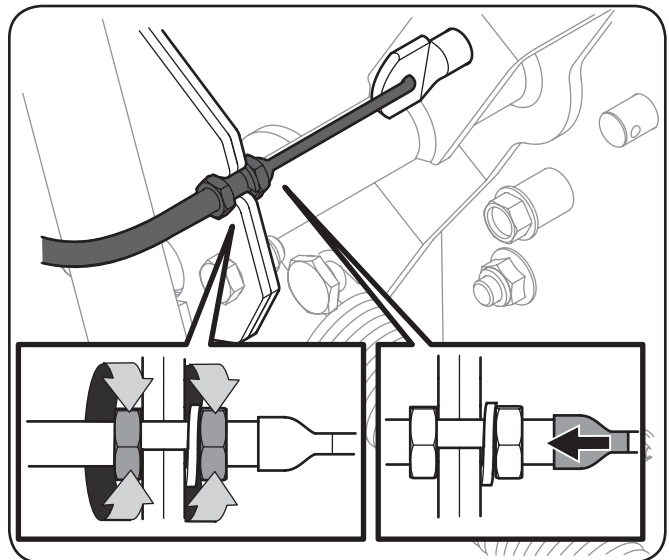


Figure 3-21

Mounting the Assembled Components to the Tractor

1. Roll the tractor into position over the frame rail assembly, aligning the frame rails with the carriage assembly. See Figure 3-22.

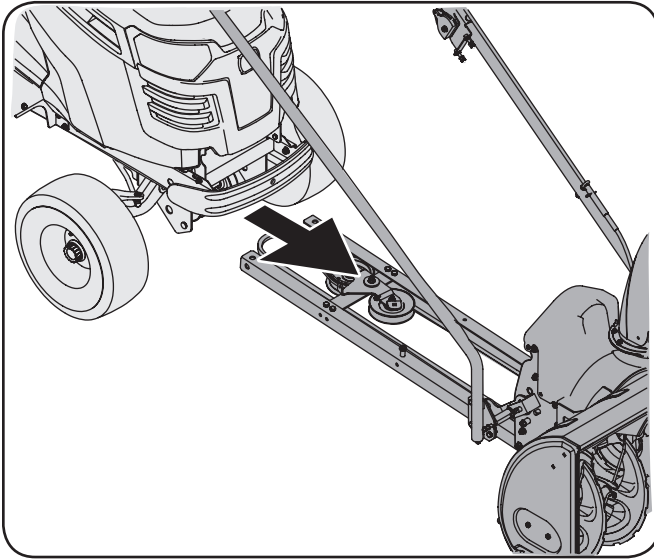


Figure 3-22

NOTE: Supporting the end of rail assembly with a 4x4 block of wood (beneath both rails) will aid in completing the following step.

2. Pivot the rear of the frame rail assembly upward and secure it to the inside of the carriage assembly with the clevis pins and hairpin clips removed in step 1 of Mounting the Carriage Assembly on page 9. See Figure 3-23.

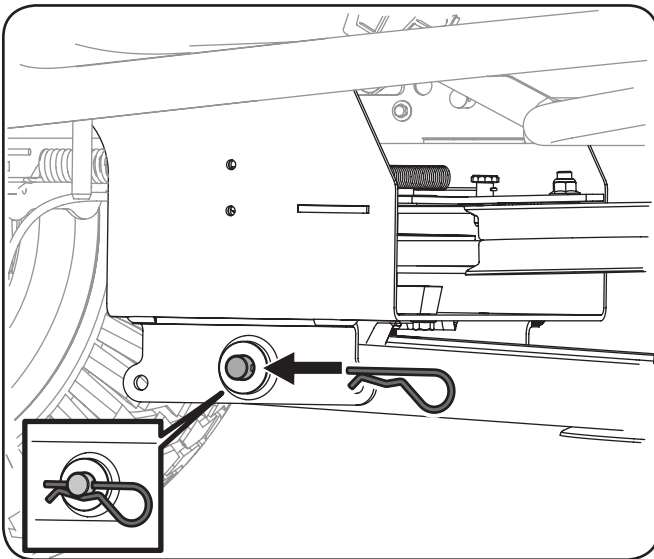


Figure 3-23

NOTE: Pushing up on the lift handle will assist in pivoting the rear frame rail assembly into position.

3. Squeeze the trigger found near the grip on the lift handle assembly and lift the handle up to align lift link ferrule and the hole in the bumper.

4. Remove the hair pin clip from the lift link ferrule. Insert the lift link ferrule into the hole found on the front bottom area of the RH lift hanger bracket and secure it with the hairpin clip just removed. See Figure 3-24.

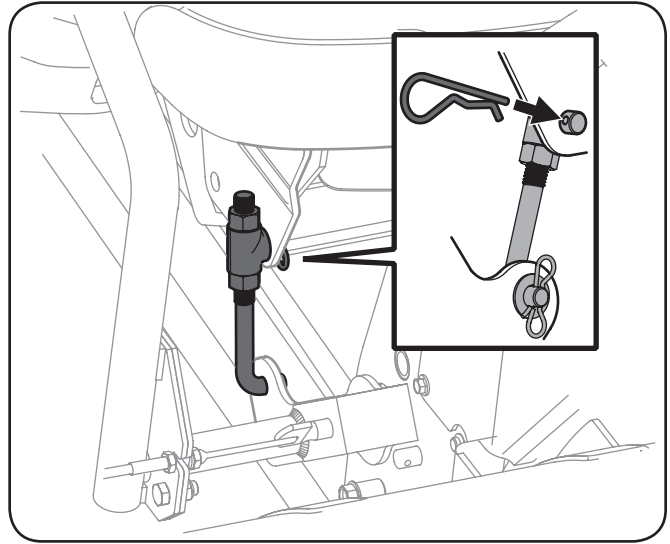


Figure 3-24

5. Repeat the previous step on the left side of the auger housing.

NOTE: If you purchased the 60" deck model with higher axles you will need to order and install an extended lift link kit (759-05097) in order to keep the lift arm within its proper operating range. This kit can be ordered free of charge from an authorized service dealer.

6. Route the auger assembly's belt around the carriage spindle pulley as shown in Figure 3-25.

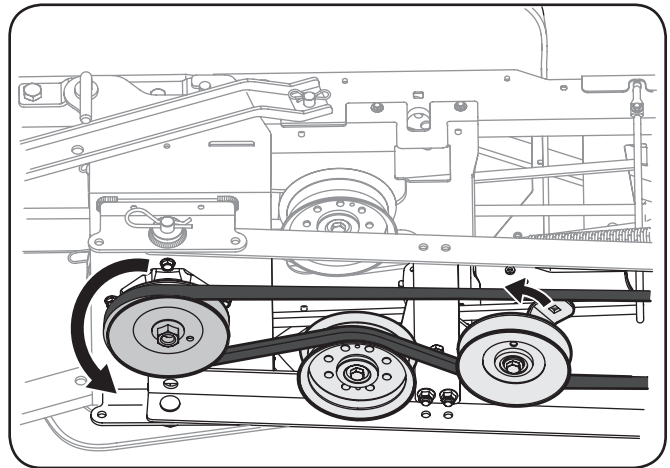


Figure 3-25

NOTE: To relieve tension on the idler pulleys, insert a ratchet with a $\frac{3}{8}$ " drive into the square hole on the idler bracket and pivot it outward.

7. Reinsert the rod into the rear of the carriage assembly and secure it in place with the two hair pin clips removed in step 2 of Mounting the Carriage Assembly on page 9. See Figure 3-26.

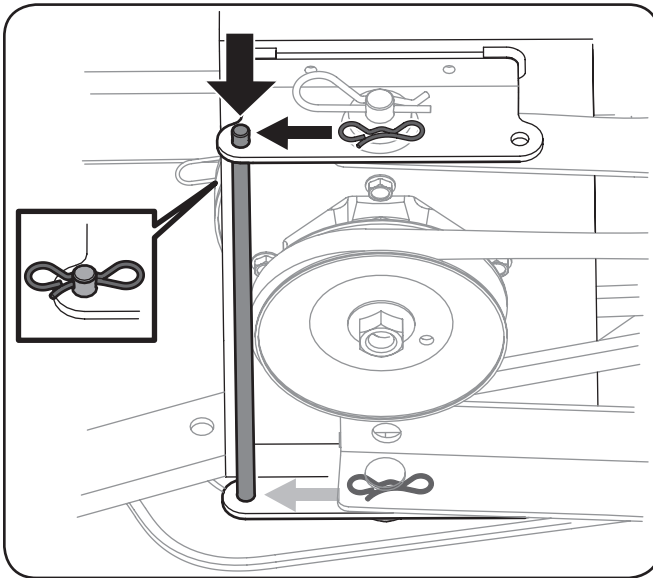


Figure 3-26

Attaching Reflectors

Peel off the clear backing from each of the reflectors to expose the adhesive surface. Adhere the reflectors to the REAR of the tractor's fender (one on the LEFT and one on the RIGHT) so that the reflectors simulate taillights.

Set-Up

Shear Pins

Two pairs of replacement auger shear pins and bow tie cotter pins are included with your snow thrower in Hardware Bag (689-00356). Store them in a safe place until needed.

Skid Shoe Adjustment



WARNING! Never attempt to make any adjustments while the engine is running, except where specified in the Operator's Manual. Place tractor on a firm and level surface. Place the PTO in the disengaged (OFF) position, set the parking brake, shut engine OFF, and remove key to prevent unintended starting.

The snow thrower skid shoes are adjusted at the factory for shipping purposes. Adjust them downward, if desired, prior to operating the snow thrower.



CAUTION: It is not recommended that you operate this snow thrower on gravel as it can easily pick up and throw loose gravel, causing personal injury or damage to the snow thrower and surrounding property.

- For close snow removal on a smooth surface, raise skid shoes higher on the auger housing.
- Use a middle or lower position when the area to be cleared is uneven, such as a gravel driveway

NOTE: If you choose to operate the snow thrower on a gravel surface, keep the skid shoes in position for maximum clearance between the ground and the shave plate.

To adjust the skid shoes:

1. Using a ½" wrench, loosen the hex nuts. Move skid shoes to desired position. See Figure 3-27.
2. Make certain the entire bottom surface of skid shoe is against the ground to avoid uneven wear on the skid shoes.
3. Retighten nuts and bolts securely.
4. Repeat the previous steps on the other side of the auger housing, making sure that both skid shoes are adjusted to the same height.

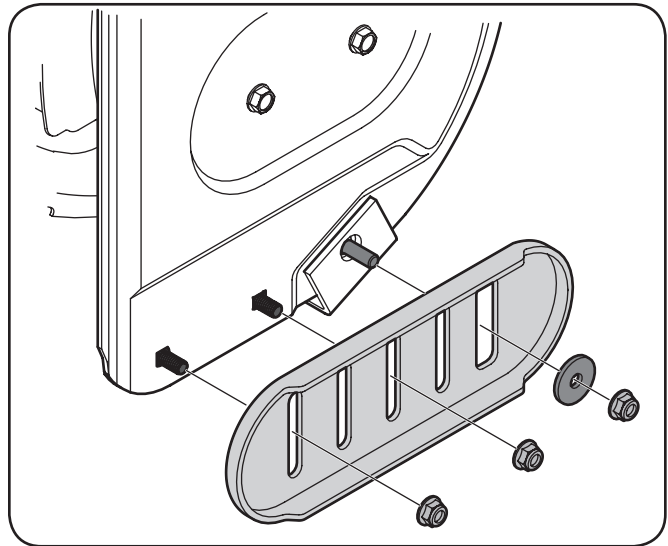
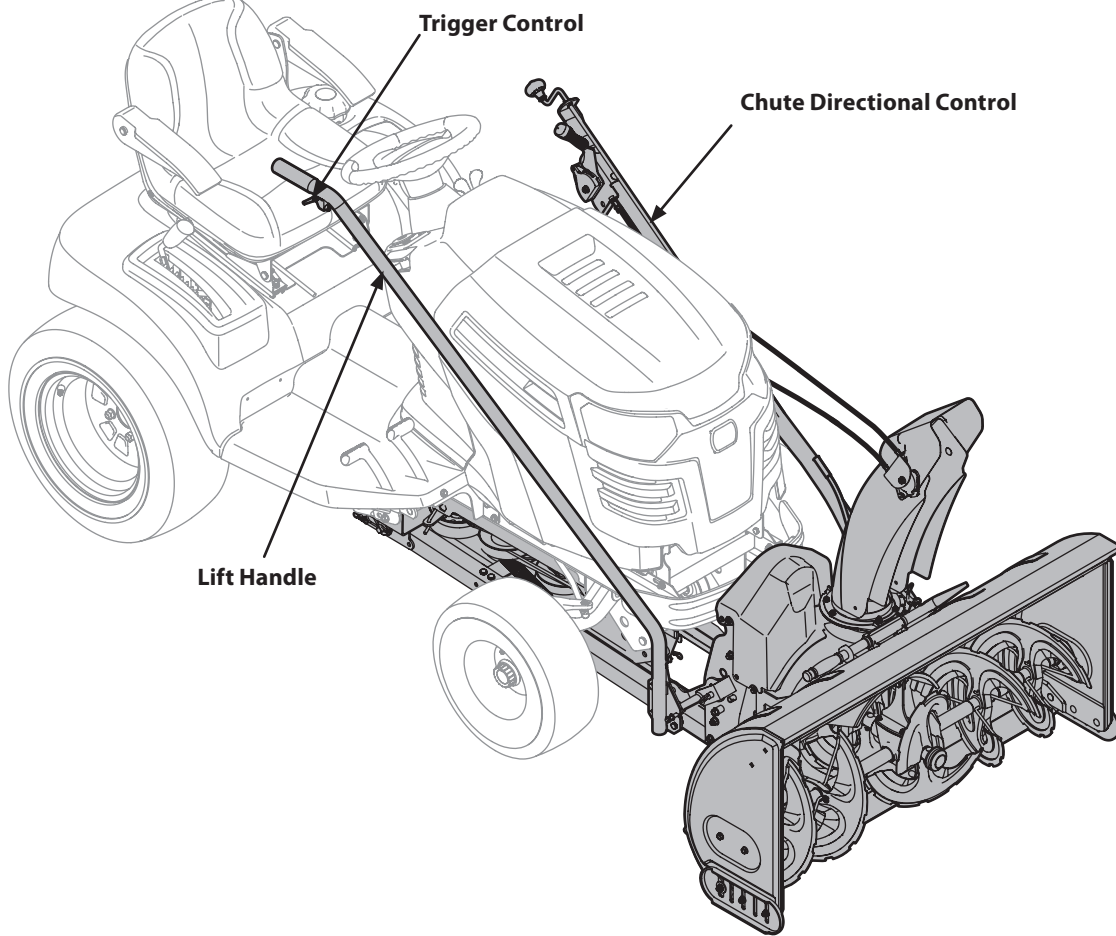


Figure 3-27



Controls



WARNING! Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.

Lift Handle

The lift handle is located on the RIGHT side of the tractor and is used to raise and lower the snow thrower attachment.

1. To raise the snow thrower attachment off of the ground, pull rearward and down on the lift handle until you feel the lift latch on the right side of the snow thrower engage, locking the snow thrower in a raised position.
2. To lower the snow thrower, push downward on the lift handle until there is enough slack in the lift cable so that you may squeeze the trigger control. With the trigger control squeezed, gently allow the snow thrower to lower until it reaches the ground.

Chute Directional Control

The chute directional control assembly is found on the LEFT side of the tractor and includes both the chute tilt lever as well as the chute crank. Both affect the direction that the discharged snow is thrown.

To pivot the upper section of discharge chute, affecting the distance and angle which the snow is thrown, move the chute tilt lever forward or rearward into a desired position.

The direction which snow is thrown can be changed by rotating the discharge chute with the chute crank. Turn the chute crank clockwise to rotate the chute and discharge snow to the left. Crank it counter-clockwise to rotate the chute and discharge snow to the right.

Operation



WARNING! Read, understand, and follow all instructions and warnings on the tractor, the attachment, and in the operator's manuals before operating. Your snow thrower attachment is capable of displacing snow and clearing a path a width of 42".

Observe the following operating instructions for efficient snow removal:

1. Become familiar and comfortable with using all of your tractor's controls as instructed in your tractor's Operator's Manual before operating it with the snow thrower attachment.
2. Make certain the correct weight (and volume) of motor oil is in your tractor's engine as instructed in the engine Owners Guide packed with the tractor's Operator Manual.
3. Always operate the snow thrower with the tractor's engine at maximum RPM (full throttle).
4. NEVER override any safety features on either your tractor or the snow thrower attachment.
5. Make certain that all nuts, bolts, and hardware are fastened securely and tight on both the tractor and the snow thrower attachment prior to use.
6. Make certain the snow thrower attachment is assembled properly and mounted to the tractor as instructed in this manual.
7. Test all the controls (tractor PTO, snow thrower lift handle, chute tilt lever & chute crank) for smooth operation prior to operating the snow thrower.
8. Make all adjustments (i.e. skid shoes) before operating your snow thrower attachment. Follow the instructions in the Assembly and Setup section of this manual when doing so.
9. Engage the tractor's PTO to activate power to the augers and impeller BEFORE driving the tractor forward and into snow.
10. Keep your tractor's ground-speed slow. The slower your tractor is traveling, the more effectively the snow thrower attachment can displace snow.
11. Adjust ground speed for snow conditions and become familiar with different snow applications. Your snow thrower attachment will operate differently in wet heavy snow than it will in light, fluffy snow.
12. Overlap a previously cleared path when necessary (deep snow) so as not to overload the auger housing with snow.

13. NEVER drive the tractor into a snow bank. The snow thrower attachment is not a dozer plow. The lift linkage and/or the snow thrower drive system can be damaged as a result of "plowing" with the snow thrower attachment.
14. If the augers become jammed with a chunk of ice or a foreign object, move the PTO into the disengaged (OFF) position immediately, turn off the tractor's engine and remove the ignition key. Examine the auger area thoroughly for damage and do NOT operate the snow thrower attachment until any damage is repaired.

IMPORTANT: The augers are secured to the spiral shafts with six shear pins and cotter pins. If you hit a hard foreign object or an ice jam, the snow thrower is designed so that the pins may shear. Four replacement shear pins and cotter pins are provided for your convenience. Store in a safe place until needed. NEVER replace the auger shear pins with standard hex bolts. Any damage to the auger gearbox or other components as a result of doing so will NOT be covered by your snow thrower's warranty.

15. Whenever possible discharge snow downwind.
16. Do NOT attempt to remove ice or hard-packed frozen snow.
17. When the tractor (with the snow thrower attachment mounted) is not in service, use the lift lever to lower the auger housing assembly to the ground to relieve strain on the tractor's front end between uses.
18. Always use tire chains and a rear weight kit on your tractor where extra traction is needed. Refer to the table in this section to determine which kits will fit your tractor.
19. Use drift cutters to aid in displacing snow through deep, drifted areas.

Engaging the Augers and Impeller

Power to the snow thrower attachment is activated by engaging the tractor's PTO.

1. Place the tractor's throttle control in the FAST (rabbit) position and allow it to remain there for efficient snow removal.
2. Move the PTO into the "ON" position to engage the augers and impeller.
3. Move the PTO into the "OFF" position to disengage the augers and impeller.

NOTE: Refer to your tractor's Operator's Manual for more information regarding your tractor's PTO and safety interlock system.

Replacing Shear Pins

The augers are secured to the spiral shafts with six shear pins and cotter pins. If the auger should strike a foreign object or ice jam, the snow thrower is designed so that the pins may shear. If the augers will not turn, check to see if the pins have sheared. See Figure 5-1.

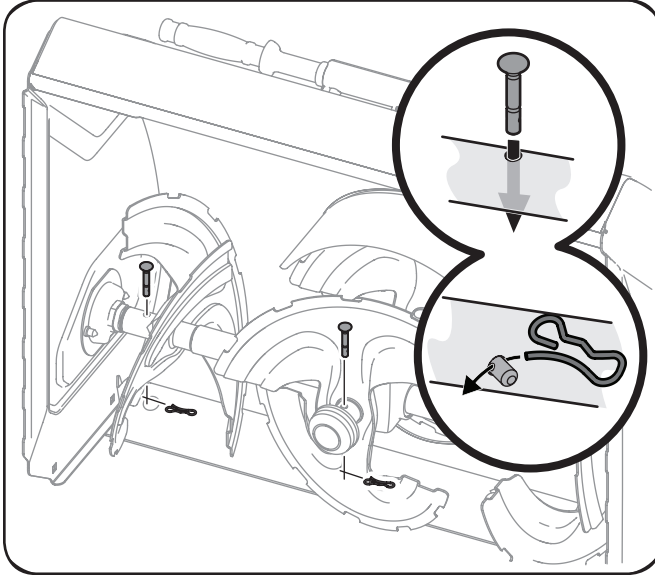


Figure 5-1



CAUTION: NEVER replace the auger shear pins with anything other than OEM Part No. 738-04124A replacement shear pins. Any damage to the auger gearbox or other components as a result of failing to do so will NOT be covered by your snow thrower's warranty.



WARNING! Always turn OFF the snow thrower's engine and remove the key prior to replacing shear pins.

Recommended Kits

Tire Chain Kits

- 23" x 10.50" tires 490-241-0026

Rear Weights

- Suitcase Weight Bracket 190-307-100
- 42 lb. Suitcase Weight 490-900-M059

Drift Cutters

- Drift Cutter Kit OEM-390-679

NOTE: None of the kits in the table are included as standard equipment with snow thrower attachment 19A40023100. Contact the retailer or dealer where you purchased this equipment, or refer to the contact information on page 2 of this manual for availability and information regarding these kits.



WARNING: Before lubricating, repairing, or inspecting, place tractor on a firm and level surface. Place the PTO in the disengaged (OFF) position, set the parking brake, shut engine OFF, and remove key to prevent unintended starting.

Lubricating the Chute Directional Control

The spiral on the end of the chute crank flex shaft and the base of the discharge chute itself should be lubed with multi-purpose automotive grease once per season. See Figure 6-1.

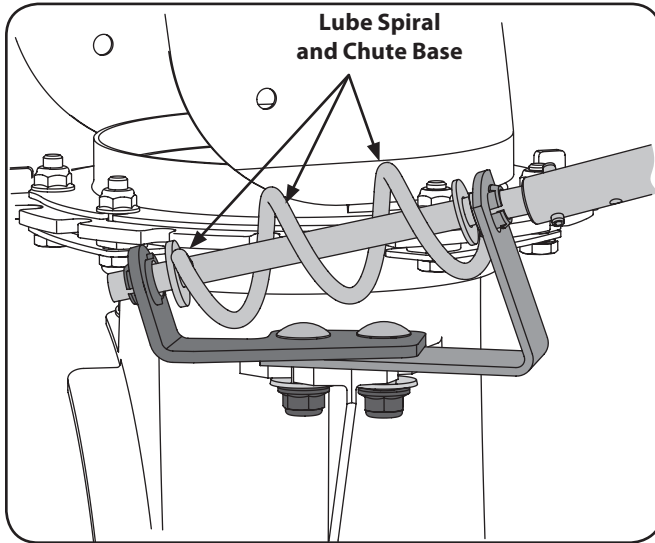


Figure 6-1

Adjusting Chute Directional Control Support Bracket

If the spiral at the base of the chute crank flex shaft isn't fully engaging with the notches in the lower chute assembly, the support bracket can be adjusted inward or outward as follows:

1. Loosen, but do NOT remove the two flange nuts that secure the support bracket to the snow thrower housing. See Figure 6-1.
2. Adjust the support bracket inward or outward so that the spiral is fully engaged in the notches on the chute before retightening the hex nuts.

Lubricating the Auger Shaft

At least once per season, remove the shear pins from the auger shafts. Oil or spray lubricant inside and on the plastic bearings and spacers on the shafts and near the holes where the shear bolts were removed before reattaching them. See Figure 6-2.

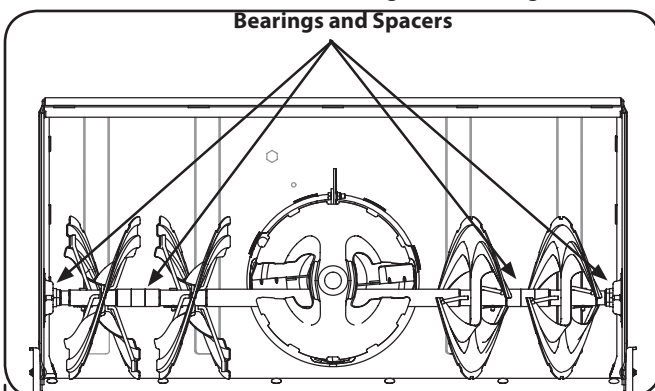


Figure 6-2

Off-season Storage

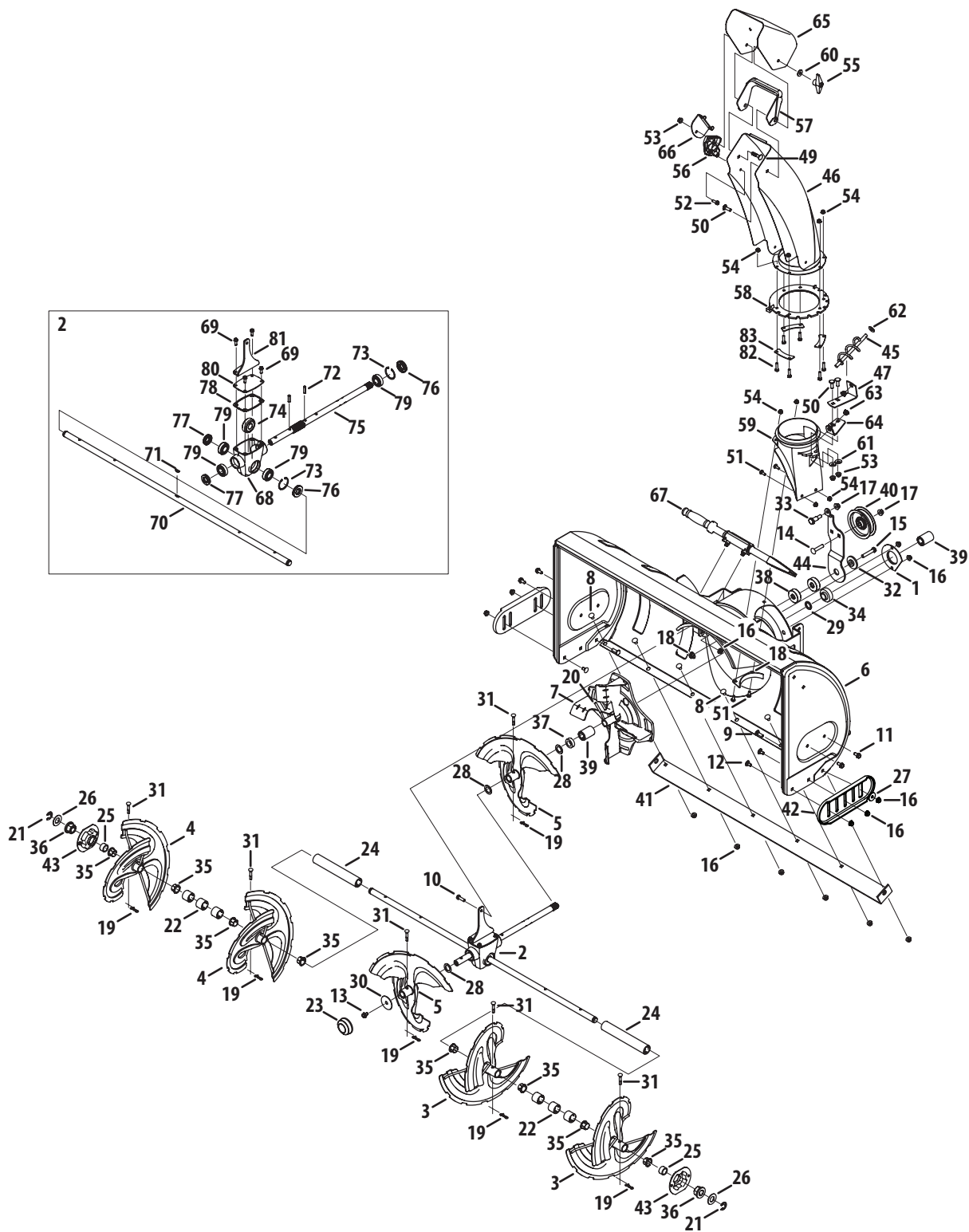
To remove the snow thrower attachment from the tractor, refer to the images found in the Set-up and Assembly section of this manual and follow the steps below:



WARNING: Before removing the snow attachment, place the tractor on a firm and level surface. Place the PTO in the disengaged (off) position, set the parking brake, shut engine OFF and remove key to prevent unintended starting.

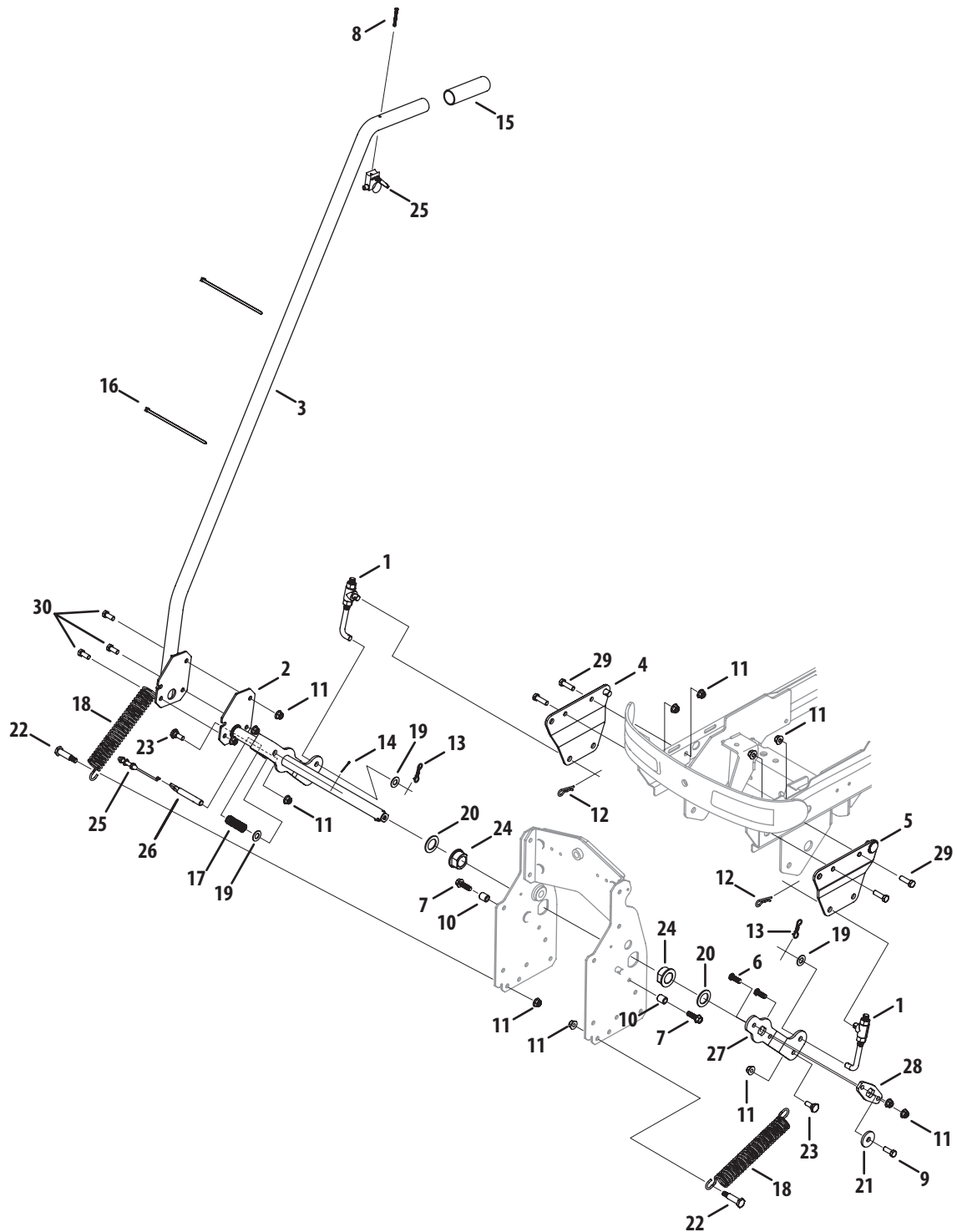
IMPORTANT: Store all hardware (e.g. clevis pins, hair pin clips, etc.) in a safe place during the off-season.

1. Use the lift handle to lower the snow attachment so that the auger housing is resting on the ground.
 2. Remove the auger housing assembly from the bumper by removing the pins from the lift link ferrules that secure it.
 3. Remove the rod from the rear of the carriage assembly by removing the two hair pin clips that secure it in place.
 4. Remove the belt from the lower pulley on the carriage. Insert a $\frac{3}{8}$ -inch drive into the idler bracket and pivot it outward to relieve the tension.
 5. Position a 4x4 block of wood under the rear of the rail assembly (beneath both rails).
 6. Position the deck lift lever into the highest cutting position.
 7. Remove the rail assembly from the carriage by removing the pins that secure it and carefully lower the rail assembly onto the 4x4 wood block.
 8. Remove the belt from the electric PTO clutch. Insert a $\frac{3}{8}$ -inch drive ratchet into the idler bracket and pivot it outward to relieve tension from the belt.
 9. Rotate the lock pins towards the rear of the tractor and remove from both the right side and the left side of the carriage.
 10. Slide the carriage forward and pivot it downward to remove it from the support brackets.
- NOTE:** The carriage support brackets secured to the frame rails of the tractor can remain assembled to the tractor.
11. Disengage the tractor's parking brake and roll the tractor rearward to expose the under carriage and rail assembly of the snow attachment.
 12. Store the snow thrower attachment with the auger housing resting on the ground, in its operating position. Position a 4x4 block of wood to support the rear of the rail assembly.

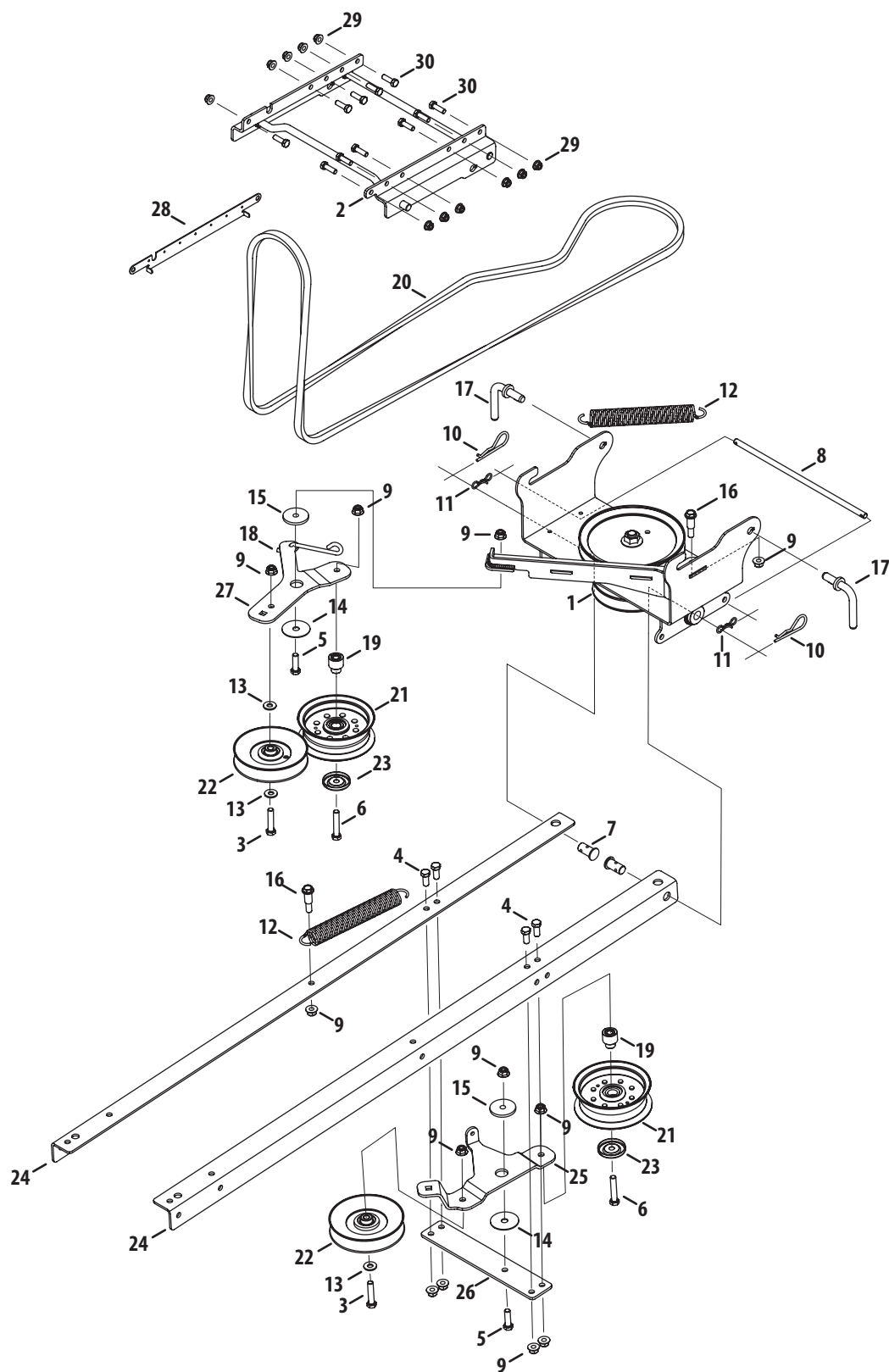


Ref No.	Part Number	Description	Ref No.	Part Number	Description
1	05931A	Bearing Housing, 1.85	43	790-00534 *	Bearing Housing, 1.1605
2	618-07032	Auger Gearbox Assembly	44	790-00636-0637	Idler Pivot Bracket
3	684-04163A-0637	LH Spiral Assembly	45	684-0061A	Chute Crank Assembly, 6.25
4	684-04164A-0637	RH Spiral Assembly	46	684-05072-0637	Chute Assembly
5	684-05015B*	Accelerator Assembly	47	703-2735A *	Chute Crank Bracket
6	684-05067	Auger Housing w/ Baffle	48	705-5226-0637	Chute Reinforcement
7	684-05075-0637	Impeler Assembly	49	710-0262	Carriage Bolt, 5/16-18 x 1.50
8	710-0260A	Carriage Bolt, 5/16-18 x .62	50	710-0276	Carriage Screw, 5/16-18 x 1.00
9	710-0276	Carriage Screw, 5/16-18 x 1.00	51	710-0703	Carriage Screw, 1/4-20 x .75
10	710-0376	Hex Screw, 5/16-18 x 1.00	52	710-0895	Hex Washer Screw, 1/4-15 x .750
11	710-04484	Hex Washer Screw, 5/16-18 x .750	53	712-04063	Flange Lock Nut, 5/16-18
12	710-0451	Carriage Bolt, 5/16-18 x .750	54	712-04064	Flange Lock Nut, 1/4-20
13	710-0607	Hex Washer Screw, 5/16-18 x .500	55	920-0284	Wing Knob, 5/16-18
14	710-3106A	Carriage Screw, 3/8-16 x 1.75	56	731-09535	Chute Tilt Cable Guide
15	710-3144	Hex Screw, 3/8-16 x 2.00	57	731-09539A	Upper Chute Adapter
16	712-04063	Flange Lock Nut, 5/16-18	58	731-10348	Chute Ring
17	712-04065	Flange Lock Nut, 3/8-16	59	731-1379D	Chute Adapter
18	712-04217	Flange Lock Nut, 3/8-16	60	936-0159	Flat Washer, .349 x .879 x .063
19	714-04040	Cotter Pin	61	736-0242	Bell Washer, .340 x .872 x .060
20	915-0114	Spiral Pin, .250 x 1.50	62	936-0300	Flat Washer, .406 x .875 x .059
21	916-0231	E-Ring, .750	63	941-0475	Snap Flange Bearing, .385
22	731-04870	Spacer, 1.25 x .75 x 1.00	64	784-5647-0637	Chute Crank Bracket
23	731-08637A	Shaft Cap	65	790-00529 *	Upper Chute
24	731-09558	Spacer, 1.25 x .75 x 7.805	66	790-00565-0637	Cable Bracket
25	731-10404	Sleeve, .758 x 1.00 x .555	67	684-04056	Snow Removal Tool
26	736-0188	Flat Washer, .76 x 1.49 x .06	—	931-2643	Cleanout Tool
27	936-0231	Flat Washer, .344 x 1.125 x .12	68	919-05029	Auger Housing, 500
28	936-0287	Flat Washer, .793 x 1.24 x .06	69	710-0642	Hex Washer Screw, 1/4-20 x .750
29	736-04624	Flat Washer, .75 x 1.13 x .10	70	711-06278	Auger Axle, .75 x 41.62
30	736-3040	Flat Washer, .406 x 1.92 x .060	71	914-0161	Hi-Pro Key, 3/16 X 5/8
31	738-04124A	Shear Pin, .25 x 1.50	72	715-04034	Roll Pin, .25 x 1.00
32	738-04162C	Shoulder Spacer, .8840 x .190	73	716-05001	Retainer Ring
33	738-04518	Shoulder Screw, 3/8-16 x .500 .875	74	917-04861	Worm Gear, 20T
34	941-0309	Ball Bearing, .75 x 1.85	75	917-05236	Worm Shaft, .75
35	741-0493A	Flange Bearing, .800 x .910	76	721-04612	Seal, .75 x 40 mm X .25
36	741-05041	Hex Flange Bearing, .75	77	721-04613	Seal, .75 x 1.375 x .25
37	750-05218	Spacer, .766 x 1.25 x .415	78	921-04614A	Gearbox Cover Gasket
38	750-06184	Spacer, .385 x 1.75 x .585	79	941-05042	Ball Bearing, .750 x 40 x 12
39	750-06261	Spacer, .76 x 1.25 x 1.8165	80	783-08281	Gearbox Cover, 500
40	756-0627D	Idler Pulley, 3.50	81	790-00603-0637	Gearbox Support Bracket
41	784-0396C-0637	Skid Plate	82	710-0597	Hex Screw, 1/4-20 x 1.00
42	784-5038B-0637	Slide Shoe	83	790-00659	Chute Flange Keeper Bracket

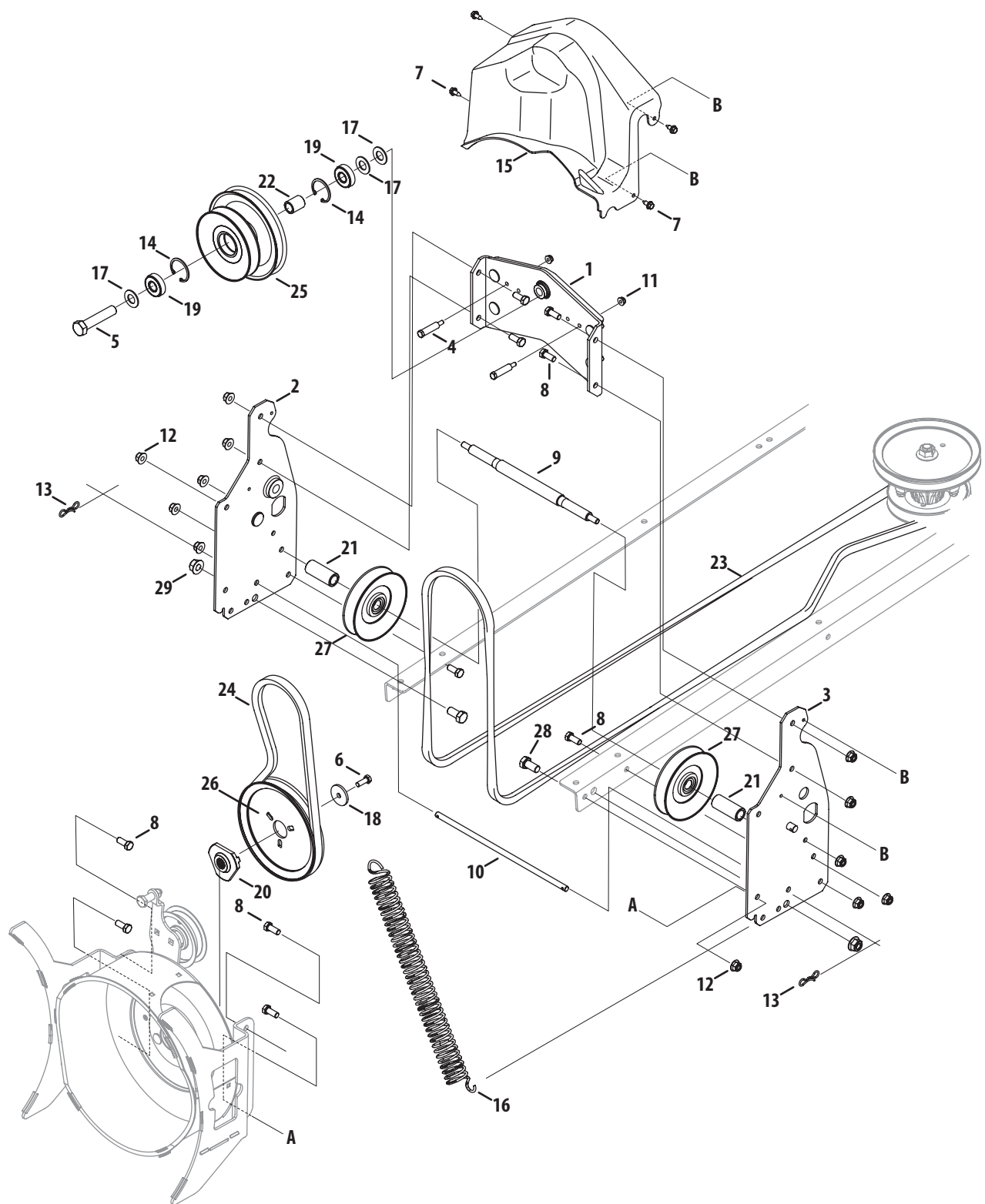
* — Choose color when ordering



Ref No.	Part Number	Description
1	618-07034	Lift Link Assembly
—	711-06143A	Ferrule, .510 x .496
—	747-06384	Lift Adjust Link
2	684-05084	Lift Shaft Assembly
3	684-05085-0637	Lift Handle Assembly
4	684-05106-0637	RH Hanger Bracket
5	684-05107-0637	LH Hanger Bracket
6	710-04095	Hex Screw, $\frac{3}{8}$ -16 x 1.00
7	710-1315	Hex Washer Screw, $\frac{3}{8}$ -16 x 1.250
8	710-1625	Oval Screw, #10-24 x 1.75
9	710-3118	Hex Lock Screw, $\frac{3}{8}$ -16 x 1.00
10	711-0396	Spacer, .385 x .623 x .750
11	712-04065	Flange Lock Nut, $\frac{3}{8}$ -16
12	714-0147	Cotter Pin, .125 x 1.75
13	714-05005	Pin, $\frac{7}{16}$ - $\frac{1}{2}$
14	714-3004	Cotter Pin, $\frac{3}{32}$ x 1.25
15	720-04083	Grip, 1.188 x 4.562
16	725-0157	Cable Tie, $\frac{3}{16}$ x .05 x 7.4
17	732-05216	Compression Spring, .772 x 1.95
18	732-05231	Extension Spring, 1.45 x 6.00
19	936-0272	Flat Washer, .510 x 1.00 x .060
20	736-0277	Flat Washer, 1.031 x 1.620 x .095
21	736-3082A	Flat Washer, .45 x 1.5 x .172
22	738-0213	Shoulder Screw, .498 x 1.445
23	938-0380	Shoulder Bolt, $\frac{3}{8}$ -16 x .500 x .270
24	741-0192	Flange Bearing
25	946-05201	Snowblower Lift Cable
26	747-06383	Lift Lock Rod
27	790-00649	Lift Bracket
28	790-00657	Link Lift Adapter
29	710-3005	Hex Screw, $\frac{3}{8}$ -16 x 1.25
30	710-3001	Hex Screw, $\frac{3}{8}$ -16 x .880

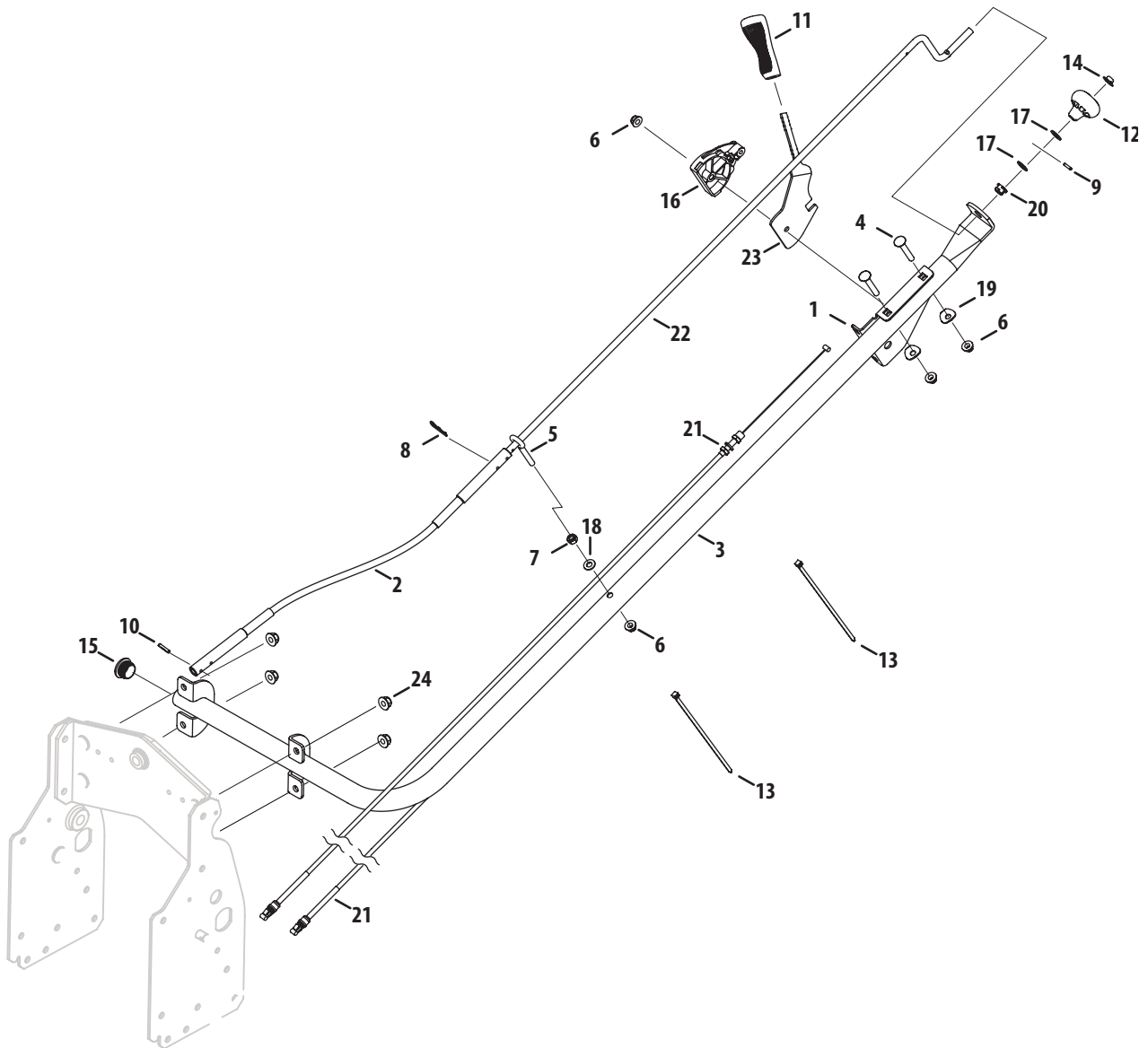


Ref No.	Part Number	Description
1	618-07072	Spindle Assembly, 7.25
—	918-07070	Spindle Housing Assembly
—	710-1260A	Hex Washer Screw, $\frac{5}{16}$ -18 x .750
—	712-0417A	Flange Nut, $\frac{5}{8}$ -18
—	738-0976	Spindle Shaft, 4.1250
—	756-05080	Pulley, 7.25
—	756-05081	Pulley, 5.57
2	684-05105	Hanger Bracket
3	710-0347	Hex Screw, $\frac{3}{8}$ -16 x 1.75
4	710-3001	Hex Screw, $\frac{3}{8}$ -16 x .880
5	710-3005	Hex Screw, $\frac{3}{8}$ -16 x 1.25
6	710-3144	Hex Screw, $\frac{3}{8}$ -16 x 2.00
7	711-0309A	Clevis Pin, .62
8	711-06303	Shaft, .375 x 12.3450
9	712-04065	Flange Lock Nut, $\frac{3}{8}$ -16
10	714-0117	Cotter Pin, .148 x 3.00
11	714-05005	Pin, $\frac{7}{16}$ - $\frac{1}{2}$
12	732-04927	Extension Spring, 1.25 x 8.5
13	736-0262	Flat Washer, .385 x .870 x .092
14	736-0518	Thrust Washer, .445 x 1.92 x .060
15	738-04162C	Shoulder Spacer, .8840 x .190
16	738-0966A	Shoulder Bolt, $\frac{3}{8}$ -16 x .50 x .925
17	747-06429	Lock Rod, .500
18	747-06483	Sprin Rod Hook
19	748-05037B	Idler Pivot Shoulder Spacer
20	954-05076	V-Belt, 114.3
21	756-05034	Idler Pulley, 4.50
22	956-3045A	Idler Pulley, 5.06
23	783-08389	Pulley Cap
24	790-00617-0637	Link Bracket
25	790-00629-0637	Idler Pivot Bracket
26	790-00630-0637	Bracket
27	790-00670-0637	Idler Pivot Bracket
28	790-00675	Hanger Bracket Template
29	710-0376	Hex Screw, $\frac{5}{16}$ -18 x 1.00
30	712-04063	Flange Lock Nut, $\frac{5}{16}$ -18



Ref No.	Part Number	Description
1	603-05172-0637	Spindle Support Bracket
2	684-05080-0637	RH Frame Bracket
3	684-05081-0637	LH Frame Bracket
4	710-05023	Shoulder Bolt
5	710-0923	Hex Screw, 5/8-18 x 3.00
6	710-1245B	Hex Screw, 5/16-24 x .875
7	710-1652	Hex Washer Screw, 1/4-20 x .625
8	710-3001	Hex Screw, 3/8-16 x .880
9	711-06298	Idler Support
10	711-06303	Shaft, .375 x 12.3450
11	712-04064	Flange Lock Nut, 1/4-20
12	712-04065	Flange Lock Nut, 3/8-16
13	714-05005	Pin, 7/16-1/2
14	916-3020	Retainer Ring
15	931-10414	Belt Cover
16	732-05205	Extension Spring, 1.6 x 7.584
17	736-0237	Flat Washer, .65 x 1.25 x .075
18	736-0505	Flat Washer, .34 x 1.50 x .150
19	941-0524A	Ball Bearing, .625 x 40 x 12 x 6203
20	748-04067A	Adapter Pulley, .75
21	750-06246	Spacer, .65 x .96 x 2.31
22	750-06251	Spacer, .88 x .635 x 1.105
23	954-05062	V- Belt, 138.4
24	954-05063	V-Belt, 39.988
25	756-05079	Double Pulley
26	756-05082	Pulley, 7.25
27	756-05084	Idler Pulley, 5.06
28	710-3131	Hex Screw, 1/2-13 x 1.00
29	712-04150	Flange Lock Nut, 1/2-13

Model 19A40023100



Ref No.	Part Number	Description	Ref No.	Part Number	Description
1	603-0302A-0637	Tilt Assembly	13	725-0157	Cable Tie, $\frac{3}{16}$ x .05 x 7.4
2	611-05064	Control Assembly	14	926-0100	Push Cap, $\frac{3}{8}$
3	684-05094-0637	Bracket Assembly	15	731-07580	Plug, 1.250
4	710-0487	Carriage Screw, $\frac{5}{16}$ -18 x 2.00	16	731-1313C	Chute Tile Cable Guide
5	710-05050	Eye Bolt, $\frac{5}{16}$ -18 x 3.25	17	936-0185	Flat Washer, .375 x .738 x .063
6	712-04063	Flange Lock Nut, $\frac{5}{16}$ -18	18	936-0275	Flat Washer, .344 x .688 x .065
7	912-3010	Hex Nut, $\frac{5}{16}$ -18	19	936-0451	Saddle Washer, .320 x .930 x .060
8	914-0101	Cotter Pin, .08 x 1.42	20	941-0475	Snap Flange Bearing, .385
9	915-0138	Roll Pin, $\frac{1}{8}$ x .63	21	946-04332A	Chute Deflector Cable, 74.5
10	715-04095	Spring Pin, .156 x .875	22	747-06436	Chute Crank, .375 x 34.63
11	720-04049A	Handle Grip, $\frac{3}{8}$	23	790-00650-0637	Chute Tilt Bracket Handle
12	720-04102	Shift Knob, .390	24	712-04065	Flange Lock Nut, $\frac{3}{8}$ -16

CUB CADET LLC

MANUFACTURER'S LIMITED WARRANTY

FOR SEPARATELY SOLD ATTACHMENTS AND ACCESSORIES

IMPORTANT: To obtain warranty coverage owner may be required to present an original proof of purchase and applicable maintenance records to the servicing dealer. Please see the operator's manual for information on required maintenance and service intervals.

The limited warranty set forth below is given by Cub Cadet LLC with respect to new merchandise purchased or leased and used in the United States and/or its territories and possessions, and by MTD Products Limited with respect to new merchandise purchased or leased and used in Canada and/or its territories and possessions (either entity respectively, "Cub Cadet").

Cub Cadet warrants this product (excluding its *Normal Wear Parts*, as described below) against defects in material and workmanship for a period of two (2) years commencing on the date of original retail purchase or lease and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship.

Normal Wear Parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of original purchase or lease. Normal wear parts include, but are not limited to items such as: belts, blades, blade adapters, grass bags, rider deck wheels, seats, and tires.

This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by Cub Cadet for use with the product(s) covered by this manual will void your warranty as to any resulting damage. In addition, Cub Cadet may deny warranty coverage if the hour meter, or any part thereof, is altered, modified, disconnected or otherwise tampered with.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE AND APPLICABLE MAINTENANCE RECORDS, through your local authorized service dealer. To locate the dealer in your area:

In the U.S.A.

Check your Yellow Pages, or contact Cub Cadet LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, call 1-877-282- 8684 or log on to our website at www.cubcadet.com.

In Canada

Contact MTD Products Limited, Kitchener, ON N2G 4J1, call 1-800-668-1238 or log on to our website at www.mtdcanada.com.

Without limiting the foregoing, this limited warranty does not provide coverage in the following cases:

- Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
- Service completed by someone other than an authorized service dealer.
- Cub Cadet does not extend any warranty for products sold or exported outside of the United States and/or Canada, and their respective possessions and territories, except those sold through Cub Cadet's authorized channels of export distribution.
- Replacement parts and/or accessories that are not genuine Cub Cadet parts.
- Transportation charges and service calls.
- Commercial or Institutional Use.

There are no implied warranties, including without limitation any implied warranty of merchantability or fitness for a particular purpose. No warranties shall apply after the applicable period of express written warranty above. No other express warranties beyond those mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind Cub Cadet. The exclusive remedy is repair or replacement of the product as set forth above.

The terms of this warranty provide the sole and exclusive remedy arising from the sale and/or lease of the products covered hereby. Cub Cadet shall not be liable for any incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

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

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW LOCAL LAWS RELATE TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights that vary in different jurisdictions.

Cub Cadet LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019, Phone: 1-877-282-8684
MTD Products Limited, Kitchener, ON N2G 4J1, Phone: 1-800-668-1238