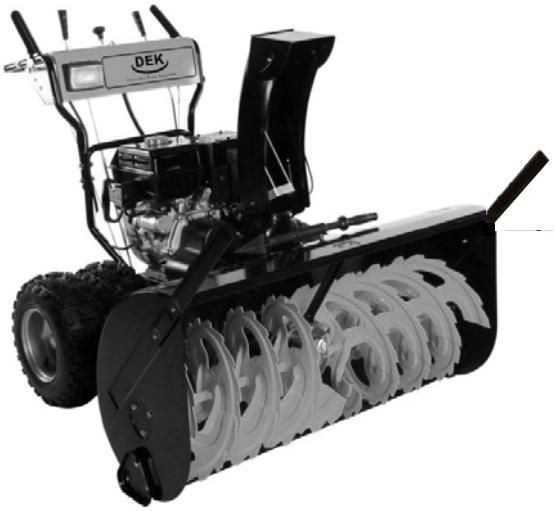
Snow Blower Owner's Manual

This manual contains important safety instructions for the gasoline engine powered snow blower models: 30SD, 36SD, 45SD

READ SAFETY WARNINGS AND OPERATING INSTRUCTIONS CAREFULLY.
SAVE THIS MANUAL.



Need Help?

Parts, Service, and Technical Assistance call:

(919)-550-3259

Monday-Friday 8:00AM-5PM EST

DO NOT RETURN THIS SNOW BLOWER TO THE STORE!

When you call the help-line you will need to have the following information:

Date of Purchase: _____

Location of Purchase: _____

Serial # - Snow Blower: _____

*Serial number is located on the engine block below the starter.

Snow blower and engine life are extended greatly by performing frequent lubrications, oil changes and regular maintenance. To protect your investment perform routine maintenance.

This manual contains important safety instructions for Snow Blowers
READ SAFETY WARNINGS AND OPERATING INSTRUCTIONS CAREFULLY
SAVE THESE INSTRUCTIONS.

This owner's manual is considered a permanent part of the snow blower and should remain with the snow blower if resold.

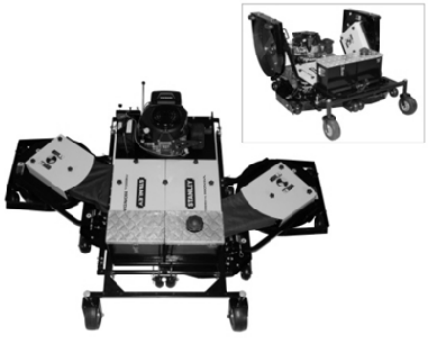
For more information or where to purchase DEK outdoor power equipment, visit us at: www.GXiOutdoorPower.com

Brush Mower
- 36" Brush Mower.
- 20 hp Kawasaki engine with electric start.
- Dual hydrostatic drive for maneuverability.
- Convertible deck— easily converts to a finish mower.
- Heavy duty 6 gauge welded deck.
- High capacity deck for high speeds through tall grass.
- Dual break-away blades.
- Model #: 36BS
-

Zero-Turn Commercial Mowers
- In three models 48", 54" and 62".
- Kawasaki engines.
- Electric Start.
- Roll bar, seat belt, large tires, head lights.
- 7.5 gallon fuel tank.
- Dual hydrostatic drive for maneuverability.
- Heavy duty 7 gauge welded steel deck.
- Model #: 48ZS
- Model #: 54ZS
- Model #: 62ZS

Commercial Walk Behind Mowers
- 36" and 54" deck.
- 20 HP Kawasaki engine with electric start.
- 4.5 gallon fuel tank.
- Dual hydrostatic drive for maneuverability.
- Quick change and floating deck type.
- Ride along sulky available.
- Model #: 36FS
- Model #: 54FS

100" Tow Behind Mower
- Briggs and Stratton electric start engine.
- Cuts up to 100 inches.
- 52 in. main deck, two 26 in. wings folds up
- Quick adjust floating deck, no tools required.
- High blade tip speeds for cleaner cut.
- Converts to a 52'' brush mower.
- Tow behind: ATV, UTV, or lawn tractor.
- Model #: 100TS



Electric Pressure Washer

- 1450 psi to 1800 psi electric pressure washers
- 20 ft of high pressure hose and 35 ft. cord with GFCI protection
- Sleek and unique, high quality, stainless steel finish
- 13 Amps, 120V
- Auto-stop shut off system prolongs pump life

Generator Cord Accessories

240V, 10/4, heavy duty extension cords with L14-30 connectors at each end. ***This cord reduces harmful voltage drops experienced when using most 120V extension cords***. Available in 15' and 25' lengths and can be combined to reach the desired length.

Chipper Shredders

- Models available from 208cc with 2.25" capacity to 420cc electric start engines with 3"x4" capacity

- Commercial models feature:
  - 420cc electric start engine
  - Two way feed: 3"x4" capacity limb chute, and over sized leaf funnel for easy loading
  - Hardened steel cutting blade with 16 hammers
  - Centrifugal clutch and belt design protect engine and product from overloading

Contents

About the DEK Snow Blower Manual

Congratulations on the purchase of your new DEK commercial snow blower. We at GXi Outdoor Power are confident that this snow blower will provide excellent performance, outstanding quality, and great durability when operated and maintained as directed in this manual.

1. This manual contains assembly, operating, safety, adjustment, maintenance, and troubleshooting instructions. BEFORE OPERATING YOUR SNOW BLOWER, CAREFULLY READ THIS MANUAL IN ITS ENTIRITY.
2. This owner's manual is considered a permanent part of the snow blower. It must be available to all operators and/or person(s) servicing the snow blower. Should the snow blower be resold, this manual must remain with the snow blower.
3. All information, illustrations, and specifications contained in this manual were in effect at the time of the publication. GXi Outdoor Power reserves the right to add, delete or modify specifications and/or designs without notice.
4. If you ever have questions in regards to the operation, maintenance or safety of your snow blower, please

Safety Information

Emission Control System Information

The U.S. and California Clean Air Acts

EPA and California regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emission control systems. The following instructions and procedures must be followed in order to keep the emissions from your engine within the emission standards. Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are ''certified'' to EPA standards.

Safety Label Locations

Safety labels are located on your snow blower to warn you of potential hazards. Read them carefully. If a label comes off or becomes hard to read, contact GXi Parts and Service, LLC for a replacement.

Operator Responsibility

It is the owner's responsibility that all operators and mechanics must be trained and read this manual before operating the snow blower as well as being physically able individuals. They should be instructed about safe operating and mechanical procedures. If they can not read or understand English, it is the owner's responsibility to explain all safety operating instructions. The owner or operator is responsible for accidents or injuries occurring to themselves, other people or property. Potential misfortunate incidents can be prevented

Snow Blower Inspection

For your safety, inspect the snow blower before each use. Before you begin your inspection, be sure the following conditions are met: the snow blower should be on a level surface, with the ignition switch off, the key removed, and the augers disengaged. Also, disconnect the spark plug wires from the spark plugs and ground them against the engine to prevent inadvertent starting.

Training

1. Read, understand, and follow all instructions on the machine and manual(s) before attempting to assemble and operate.
2. Operator must be familiar with all controls, their operations, and how to stop the engine and disengage the controls quickly.
3. Never allow children to operate this machine.
4. Never allow adults to operate this machine without proper instruction.
5. Exercise caution to avoid slipping or falling, especially when operating the machine in reverse.
6. Keep area of operation clear at all times.

WARNING

WARNING! Do not use your DEK snow blower to carry passengers. Keep bystanders, helpers, pets and children at a safe distance from the machine while it is in operation. Inspect the area where the equipment is to be used and remove all objects such as rocks, toys, and wires which can be thrown by the machine causing serious injury or death.

WARNING

Wear appropriate clothing including hard hat, safety glasses and hearing protection. Long hair, loose clothing or jewelry may get tangled in moving parts.

Preparation—Safety Precautions

1. Inspect the area where the equipment is to be used and remove all objects such as rocks, mats, and wire which can be thrown by the machine causing serious injury or death.
2. Disengage all clutches and shift to neutral before starting the engine.
3. Disengage all control levers before starting the engine.
4. Use extension cords and receptacles as specified by the manufacturer for all units with electric drive motors or electric starting motors.
5. Use a grounded three-wire extension cord when using the electric start option.
6. People, pets, and most importantly children must not be near the area being cleared. Do not operate the snow blower in their presence.
7. Never operate snow blower with damaged guards, shields or covers.
8. All users of the snow blower must be alert and pay attention to safety alerts, symbols, and safety signs.
9. Be sure to inspect snow blower before each use.
10. Check the controls and shields to make sure that they are functioning properly before operating. Do not operate if any are damaged or missing.
11. Never attempt to make any adjustments to the snow blower while it is running.
12. Adjust the collector housing height to clear gravel or crushed rock surfaces.
13. Wear appropriate clothing including hard hat, safety glasses and hearing protection. Long hair, loose clothing or jewelry may get tangled in moving parts.
14. Do not operate without wearing adequate winter clothing. Wear footwear that will improve footing on slippery surfaces.
15. Allow snow blower to adjust to outdoor temperature before starting the engine.

Gasoline and other fuels—Safety Precautions

Use extra care when handling gasoline and other fuels as they are flammable and vapors can explode.

1. Only use gasoline approved containers for storage and keep out of reach from children.
2. Do not fill fuel tank completely full. Overfilling may result in fuel leakage. Leave a reasonable amount of space for fuel to expand.
3. If fuel is spilled, do not start the engine. Move the snow blower away from the area, wipe up the spill thoroughly and wait until fuel vapors have evaporated before starting engine.
4. Keep the nozzle in contact with the rim on the fuel tank or container opening at all times, until refueling is complete. Do not use nozzle lock-open device.
5. Do not fill gasoline containers or equipment inside a vehicle or on a truck/trailer bed.
6. Always place gasoline containers on the ground away from your vehicles prior to filling.
7. Never remove gas cap or add fuel when engine is running or the engine is hot.
8. Avoid prolonged breathing of gasoline vapors.
9. Never refuel or drain the machine indoors.
10. Keep face away from nozzle and gas tank opening.
11. Keep gas and other fuels away from skin and eyes. If fuel is spilled on clothing, change clothing immediately.
12. Never use the mouth to siphon gas.
13. Never refuel the snow blower until all moving parts on the snow blower have stopped.
14. Never smoke when handling fuels and stay away from an open flame where fumes can be ignited by a spark.

DANGER

DANGER: GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. Do not add fuel while the engine is running or is hot. Keep open flames, sparks, and heat away from the fuel and store fuel in containers specifically designed for that purpose. **ADD FUEL OUTDOORS ONLY. IF THE FUEL IS SPILLED, DO NOT START THE ENGINE.** Manually push the snow blower away from the spill and wipe up immediately.

Equipment Operation—Safety Precautions

1. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect. Carbon monoxide is odorless, tasteless, and can be fatal.
2. Never operate the snow blower without good visibility or light.
3. Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
4. Never operate the snow blower with defective guards or shields, or without the safety devices securely mounted in place and functioning properly.
5. Be aware of discharge and never direct discharge of material toward people or areas where property damage can occur. Keep children and others away.
6. Do not change the governor settings or over speed the engine.
7. Do not overload the machine capacity by attempting to clear snow at too fast a rate.
8. Always stop the engine when you leave the snow blower, even for a moment.
9. To help reduce fire hazard, keep the engine and the area around the engine free of grass, leaves or any other type of foreign material.
10. Beware of any sharp edges. For safety always wear gloves when performing augers/impeller maintenance activities
11. If lightning is seen or thunder is heard in the operators vicinity, do not operate machine. Instead find shelter, as lightning may cause injury/death.
12. After striking a foreign object, stop the engine, remove the wire from the spark plug, thoroughly inspect the snow blower for any damage, and repair the damage before restarting and operating the snow blower.
13. If machine starts to vibrate or function abnormally, stop the engine immediately and check for cause. Vibration is generally a warning of trouble.
14. Keep hands and feet away from augers/ impeller . This product is capable of amputating hands and feet.
15. Be alert and slow down when making turns. Also look left, right, and behind before changing directions and reversing to be sure there is a clear path.
16. Never operate snow blower at high transport speeds on slippery surfaces.
17. Never operate snow blower under the influence of alcohol and drugs.
18. Use care when loading or unloading the machine into a trailer or truck.
19. Use care when approaching blind corners, shrubs, trees, or other objects that may obstruct vision.
20. Always disengage power to augers when not in use or transported.
21. Never listen to music with headphones/ earphones while operating the snow blower.
22. Use extreme caution when operating on slopes.
23. Never touch a hot engine or muffler.
24. Use caution when operating on gravel surfaces.
25. Only use attachments and accessories that are approved by DEK.
26. When starting the engine pull the cord slowly until some resistance is felt before using full force.
27. Always have a good grip on the handles and never run while operating the snow blower.
28. Stop the engine whenever you leave the operating position, before unclogging the augers/impeller or discharge chute, and when making any repairs, adjustments or inspections.
29. When cleaning, repairing or inspecting the snow blower, stop the engine and make certain the augers/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 engine.

Clearing A Clogged Chute—Safety Precautions

1. SHUT THE ENGINE OFF!
2. Wait at least 10 seconds to be sure the augers have stopped rotating.
3. Remove and ground the spark plug when clearing the blockage.
4. Always use a cleanout tool and never your hands.

IMPORTANT! The snow blower belts are adjusted to ensure the augers/impeller stop turning within five (5) seconds of releasing the impeller control lever. If you are making any belt adjustments whatsoever, for your safety and the safety of others around you, you must ensure the belts are re-adjusted to achieve this design specification.

DANGER: Do not bypass, modify, alter or disconnect the safety system. Make sure that the safety interlock system is fully operational each time before operating the machine.

Before attempting to use your snow blower, make sure you are familiar with all of the components and have read the manual.

Do NOT over-prime the engine. Pressing the primer bulb more than 3x could result in flooding the carburetor making the engine hard to start

GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. FUEL LEAKS, A LOOSE FUEL TANK, OR A LOOSE FUEL VALVE CAN LEAD TO SEVERE INJURY OR DEATH. DO NOT OPERATE THIS SNOW BLOWER IF ANY COMPONENT OF THE FUEL SYSTEM IS LOOSE OR LEAKS GASOLINE!

Before setting up your DEK snow blower, disconnect the spark plug wires from the spark plugs and ground them against the engine to prevent inadvertent starting. This step should be taken as a precaution whenever you are working on this machine.

Check engine oil level before each use. Maintain oil level between run marks on the dipstick, and change oil according to the

Need Help?

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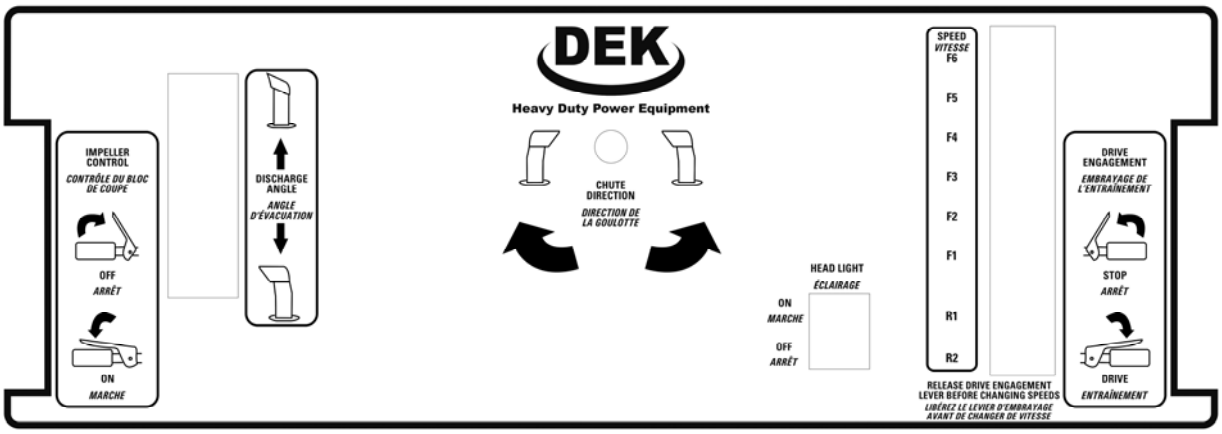
(919)-550-3259

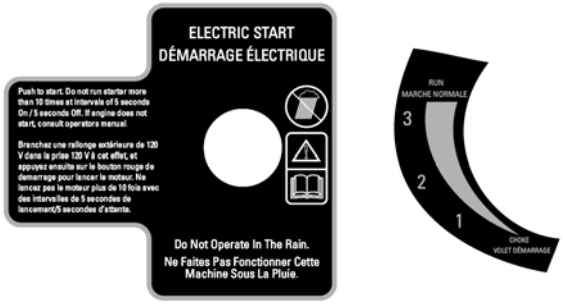
Monday-Friday 8AM-5PM EST

www.gxioutdoorpower.com

Safety Decal Identification

The labels shown below are located on your snow blower to warn you of potential hazards and provide you with important safety information. If these decals become difficult to read or are missing from the snow blower, please contact GXi Parts & Service, LLC at 1-919-550-3259 or www.gxioutdoorpower.com for a replacement.





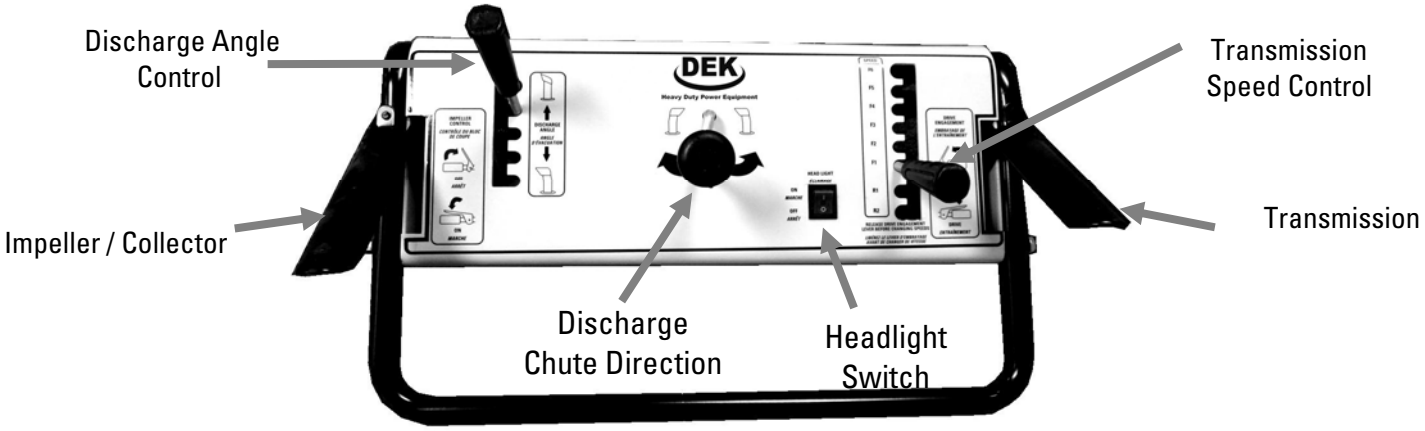
	Models		
Feature	**30SD**	**36SD**	**45SD**
Product Type	Snow blower	Snow blower	Snow blower
Clearing Path	30?	36?	45?
Engine	302cc	420cc	420cc
Torque	15.9 ft.lbs	20.7 ft.lbs	20.7 ft.lbs
Engine Start	120V Electric Start and recoil	120V Electric Start and Recoil	120V Electric Start and Recoil
Speed Control	6 fwd, 2 rev	6 fwd, 2 rev	6 fwd, 2 rev
Deck Type	All Steel	All Steel	All Steel
Discharge distance	40?	40?	40?
Impeller	16? 2 Stage	16? 2 Stage	16? 2 Stage
Auger	16? serrated	16? serrated	16? serrated
Discharge Chute	6?	6?	6?
Fuel/Capacity	Unleaded gasoline/1.32 GAL	Unleaded gasoline/1.32 GAL	Unleaded gasoline/1.32 GAL
Chute control	Crank	Crank	Crank

* Product Specifications may change without notice.

Throughout this manual, instructions are given on the operation of your DEK snow blower. We recommend that while going through this manual, you have your snow blower available for quick and easy access in order to orient yourself with the controls, maintenance and orientation of different parts. Please read through the manual before operating.

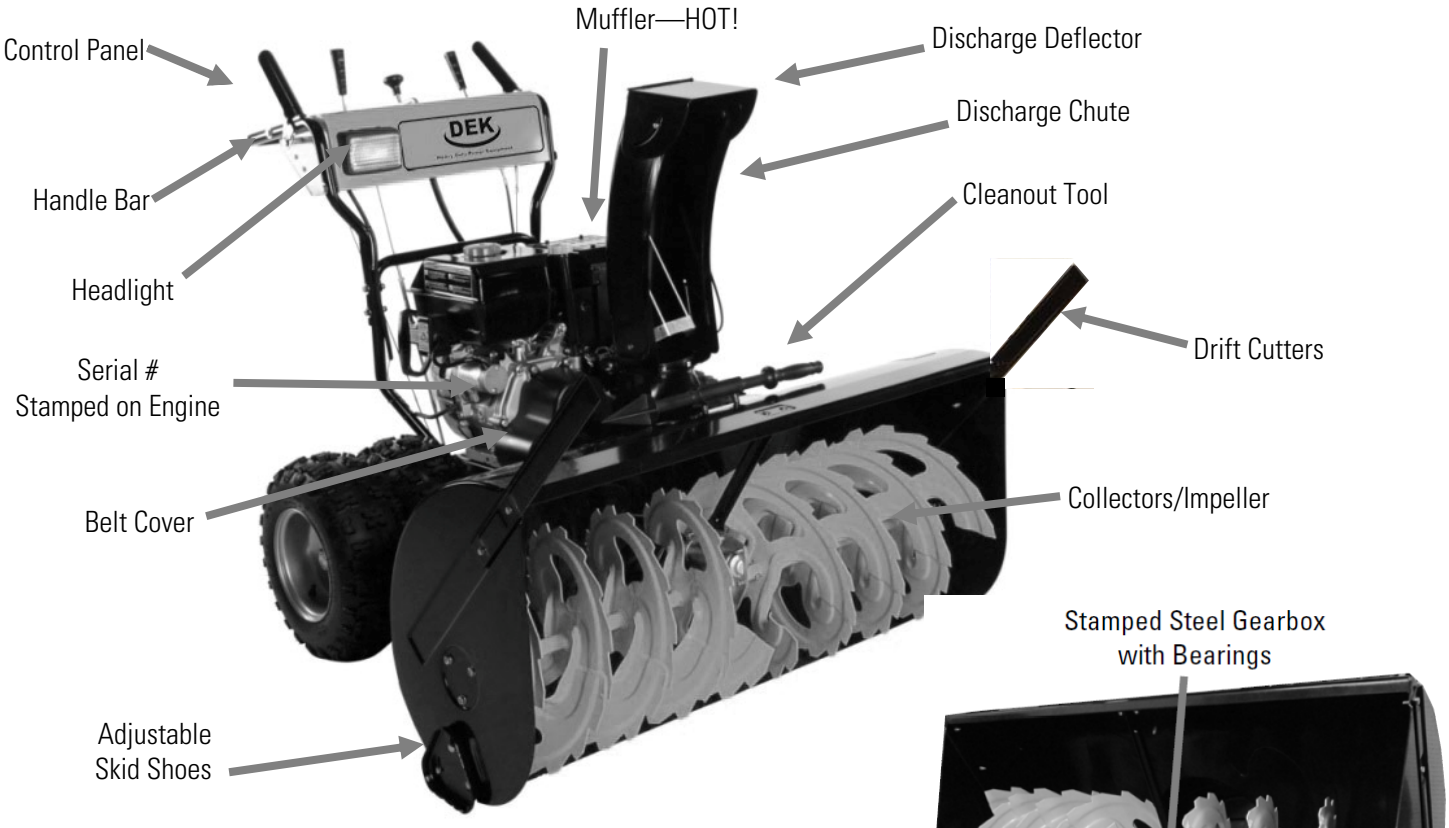
Control Panel

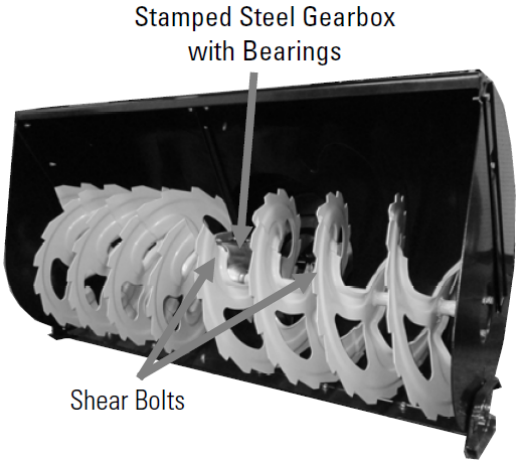
Below is a diagram of the control panel. Please take the time to familiarize yourself with the snow blower controls.

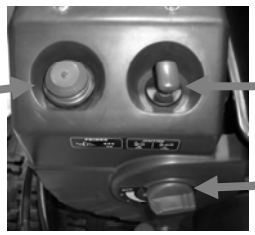


Snow Blower Component Identification

(Some components may appear different than shown, depending on the model.)







Please indicate the part that you are missing:

- ☐ Hardware bag
- ☐ Other _____
- ☐ Date of purchase _____

Model #: _____

Name

Address

Phone

Email

☐ Serial #: _____

Comments:

IMPORTANT: Please include your receipt. Without a receipt, your order will be delayed. You may also email us at:

customerservice@gxioutdoorpower.com

Fax: (919)-550-3277

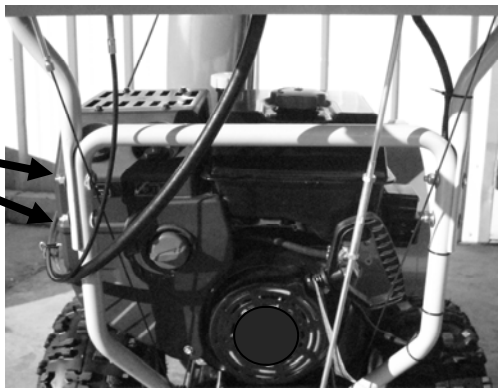
If emailing, please scan in your proof of purchase.

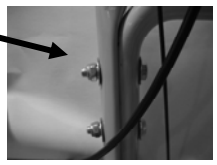
Please refer to pages 26-30 for a detailed parts listing and description. This will expedite the process of getting parts identified correctly for shipment.

Step 1: Control Panel Handles

1. Align the two holes on each side of the control panel handles over the lower handle frame.

2. Insert the bolts through the handlebar holes and frame holes. Secure in place with hardware provided. Insert bolts from the inside.

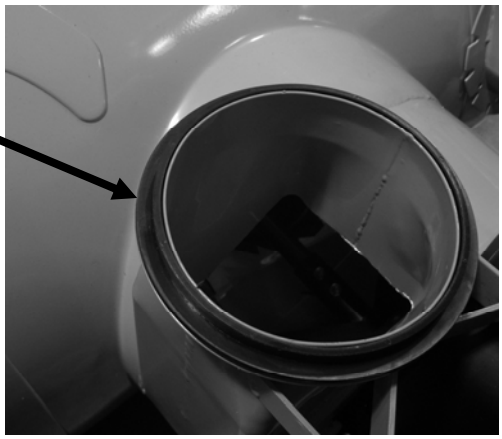


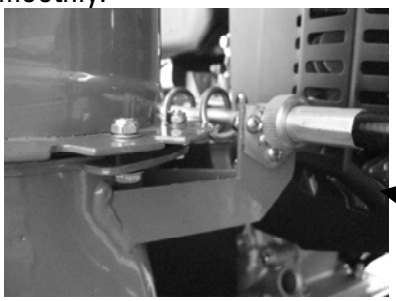


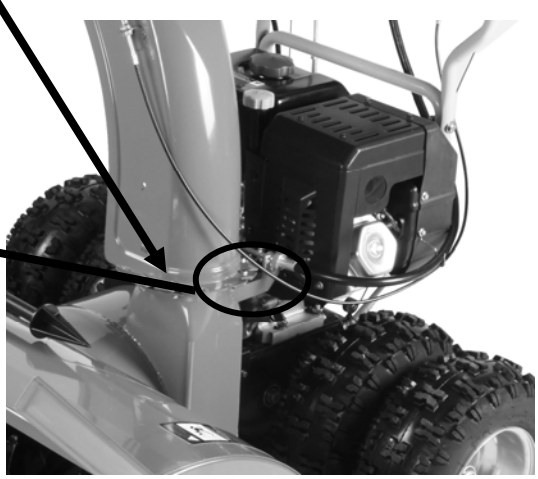
Step 2: Directional Discharge Chute

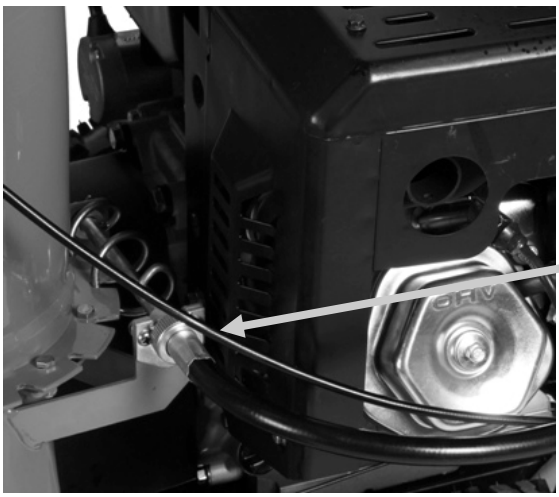
1. Fit the black plastic round spacer onto impeller housing before installing chute. Apply light coat of grease onto spacer.
2. Install the bolts for the retainer brackets with the plastic spacer between the chute and the steel retaining tabs.

DO NOT OVERTIGHTEN. If the bracket is too tight the chute will not move properly. Ensure there is enough space between the impeller housing and the bracket on all sides so that the chute rotates smoothly.







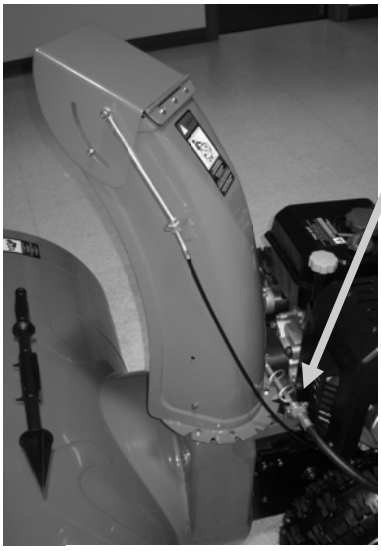


Step 3: Chute Rotation Cable

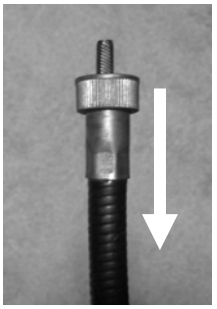
Attach the cable coming from the middle of the control panel by screwing the cable end onto the crank section.

See next page for specific instructions regarding this assembly.

Step 3: Chute Rotation Cable (continued)

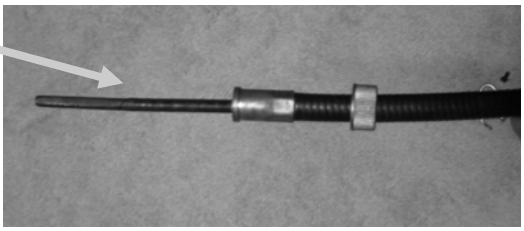


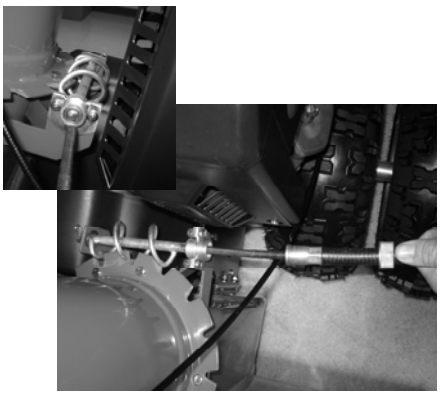
1. Locate the connection: The chute rotation cable connection is located at the base of the discharge chute between the engine and the discharge chute.



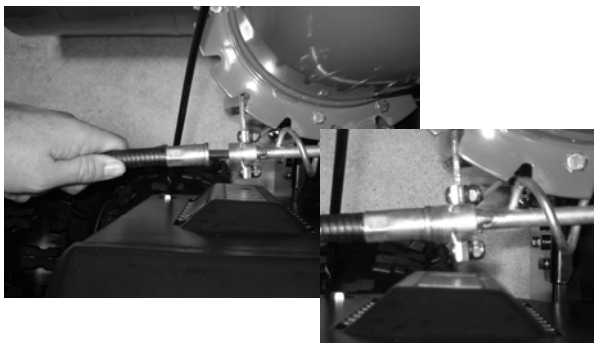
2. Slide the threaded end of the connector down the cable in order to easily see the end of the cable connection. The center section should be about 3/4" to 1" beyond the end of the cable.

NOTE: There is nothing wrong if the end of the center section of the cable protrudes more than about 3/4" to 1" beyond the end of the cable.
The center section can be easily pushed back into the cable.



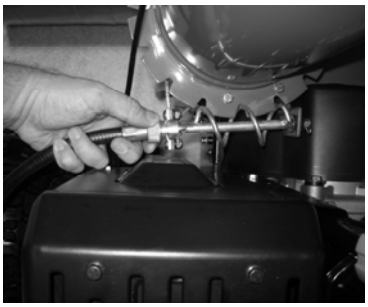


3. Align the center section with the cable chute rotator. The end of the center section is square and requires proper alignment in order to correctly connect to the machine.



4. Press the cable toward the chute rotator screw. The end of the cable should touch the end of the chute rotator.

If the surfaces do not contact, continue to apply pressure and slowly rotate the discharge chute direction handle on the control panel so the center of the cable aligns itself on both ends.



5. Slide the threaded end from Step 2 toward the chute rotator, and thread the end onto the chute rotator.

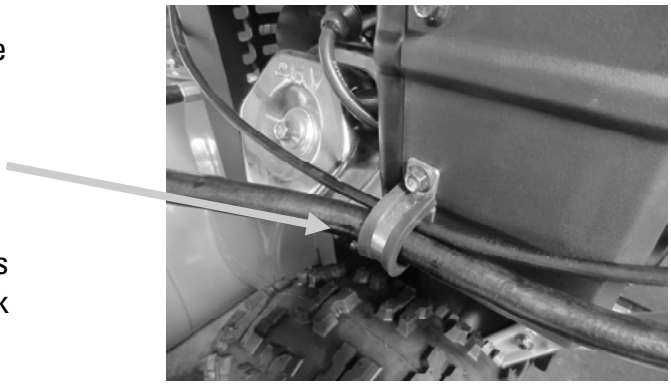
IMPORTANT: Finger tighten firmly. Inspect before each use to make certain the connection doesn't loosen during operation of the machine.

Step 4: Chute Direction Control Cable Support

With the rubber lined strap removed, put the chute direction control cable and the chute deflector cable into the opening, and press the strap together aligning the hole for the bolt.

Secure strap to side of the engine.

NOTE: Rotate discharge chute and ensure there is no binding of any cables and there is enough slack in the deflector cable for full rotation.

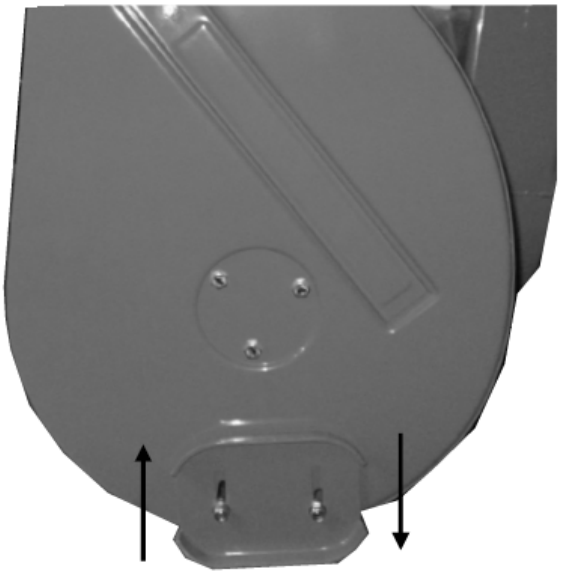


Step 5: Drift Cutters (if desired)

1. The drift cutters are attached to the main housing in the stored position.
2. Remove the two bolts on each drift cutter.
3. Reattach the drift cutters in the operating position.
4. Replace bolts and secure tightly.

Step 6: Skid Shoes

1. Skid shoes are stored in the hardware bag for shipping.
2. Remove from hardware bag, and install skid shoes using the provided fasteners
3. Insert the fasteners so the flat head of the carriage bolt is toward the inside of the main housing.



CAUTION: Check the skids to ensure that the auger does not contact the paved or gravel surface. Adjust skids as necessary to make up for wear on the snow blower.

Position skid shoes so that the scraper blade is elevated at least 1/4" from the ground. This allows easier maneuvering and prevents drag on the snow blower when encountering unseen imperfections on the surface to be cleaned.

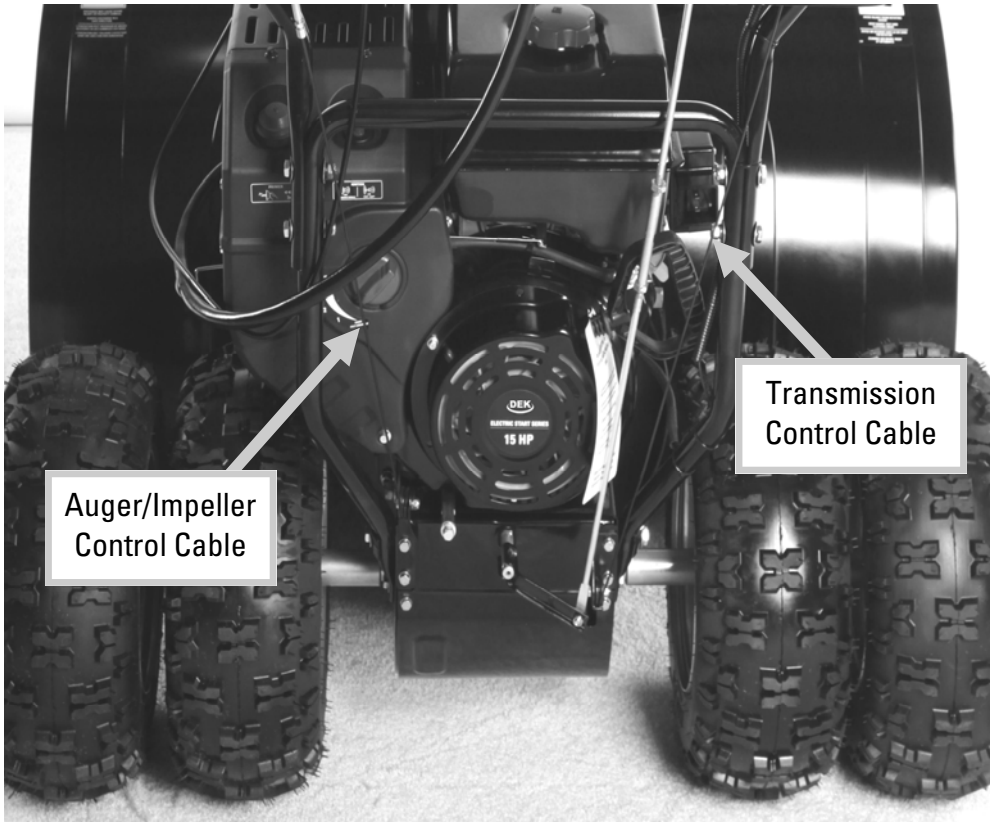
1. Check the tire pressure to ensure the tires are properly inflated.
2. Move skid shoes up and down to the desired position based on the surface texture.

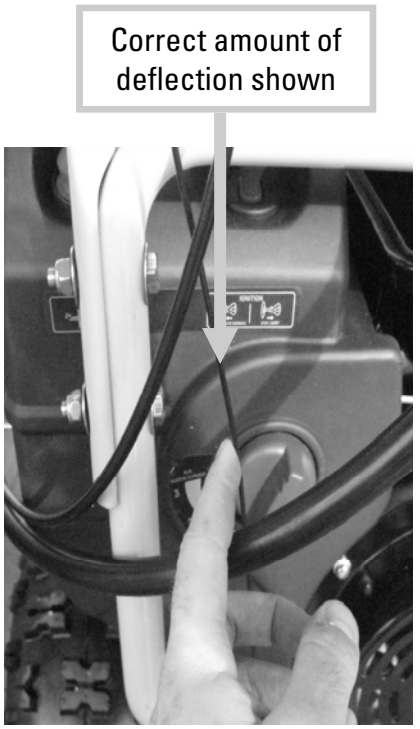
- If the surface is rougher adjust the skid shoes lower which increases the auger ground clearance.
- If the surfaces is smoother adjust the skid shoes higher (decrease ground clearance). Firmly tighten the nuts that secure both skids to the auger sides.

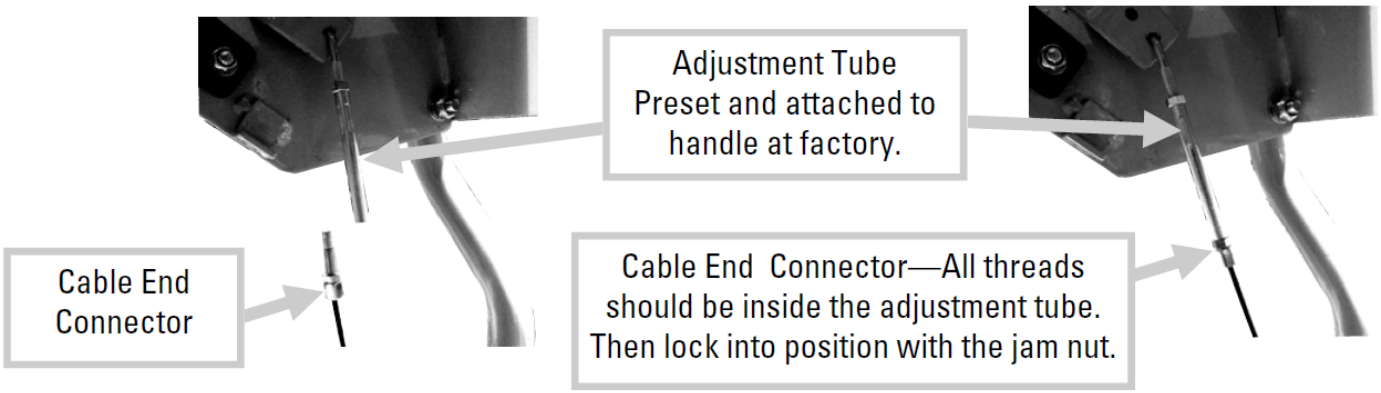
Step 7: Auger and Transmission Control Cables

Control cables are preset at the factory, but may require additional adjustment for optimal operation. Control cables require periodic inspection and maintenance to maintain optimal performance.

1. Locate the black cable on the right side (standing from the operator position) of the snow blower. Ensure the cable is properly seated in the plastic guide pulley at the rear of the chassis.
2. Attach the cable to the threaded end under the drive control handle. The cable adjustment tube with Z rod may need to be attached to the bottom of the handle.
3. Screw clockwise to secure until all threads are engaged in the adjustment tube. Tighten lock nuts when correct tension is achieved.
4. The drive and impeller cables will be at correct tension when the cables are properly attached to the handles and the cable has a 1 inch deflection to either side when pushed with a finger as shown.





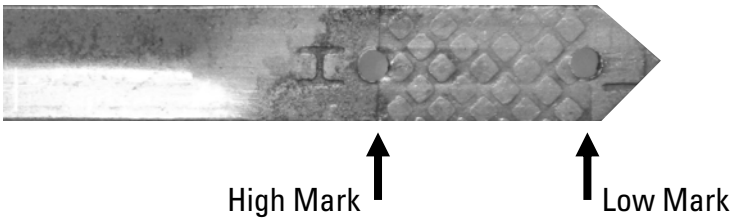


Step 9: Headlight

1. Connect snow blower headlight wire plug to the headlight bulb.
2. Connect the headlight bezel to the control panel.
   A. Tilt headlight assembly and align tabs on the top of the headlight bezel with the notches in the control panel. Insert the notches into the panel.
   B. Tilt headlight assembly down while gently squeezing the headlight bezel and push headlight into control panel.

Step 10: Filling Oil and Gasoline

1. Fill the engine with SAE 5W-30 engine oil. Fill the engine with 1.2 to 1.5 quarts of oil. Fill up to the full level mark on the dip stick. Do not overfill.
   When checking oil, remove dipstick, wipe completely clean, insert dipstick into dipstick tube on the engine (do NOT screw dipstick down), remove dipstick and observe oil level (detail below).
   Keep oil level at the high run mark for longest engine life.



Check engine oil level before each use. Maintain oil level between run marks on the dipstick, and change oil according to the

2. Check that the fuel inlet screen is clean and fill the tank to the proper level leaving adequate space for fuel to expand when the engine is running at its operating temperature. That level is about 0.75-1" below the top of the tank to ensure no gasoline leaks.

DANGER

DANGER: GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. Do not add fuel while the engine is running or is hot. Keep open flames, sparks, and heat away from the fuel and store fuel in containers specifically designed for that purpose. **ADD FUEL OUTDOORS ONLY. IF THE FUEL IS SPILLED, DO NOT START THE ENGINE.** Manually push the snow blower away from the spill and wipe up immediately.

GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. FUEL LEAKS, A LOOSE FUEL TANK, OR A LOOSE FUEL VALVE CAN LEAD TO SEVERE INJURY OR DEATH. DO NOT OPERATE THIS SNOW BLOWER IF ANY COMPONENT OF THE FUEL SYSTEM IS LOOSE OR LEAKS GASOLINE!

DANGER

Before attempting to use your snow blower, make sure you are familiar with all of the components and have read the manual.

DANGER: Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.

WARNING

Thoroughly inspect the area where you plan to use the snow blower. Look for items such as stones, sticks , wire, and other foreign objects. If struck by the snow blower, these and other objects may become projectiles that could lead to serious injury or death. Clear area of all debris. Keep people and pets at a safe distance.

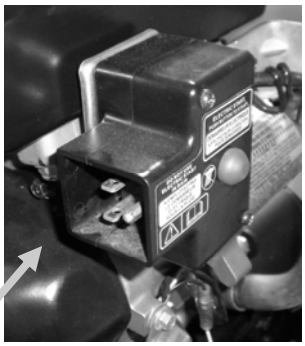
Starting the Engine Using the Recoil Start

NOTE: Be sure to add fresh unleaded gasoline and leave a gap for expansion and fill the engine with SAE5-W30 motor oil **(1.2—1.5 quarts)** before starting your snow blower. Check engine oil before each use.

1. Make sure the safety key is fully inserted in order for the engine to start. Remove the key when the snow blower is not in use.
2. Firmly push the primer to force the fuel directly into the engine's carburetor. Push two to three times depending on the temperature. Note: Do not press the primer bulb more than 5 times. Fuel may leak from the carburetor with over priming.
3. Make sure the choke is set in the CHOKE 1 position (choke more in colder temperatures).
4. Pull the recoil to start the engine.
5. After the engine is started, slowly turn the choke up one level at a time as the engine warms up until it is at the maximum level or "RUN LEVEL."

WARNING

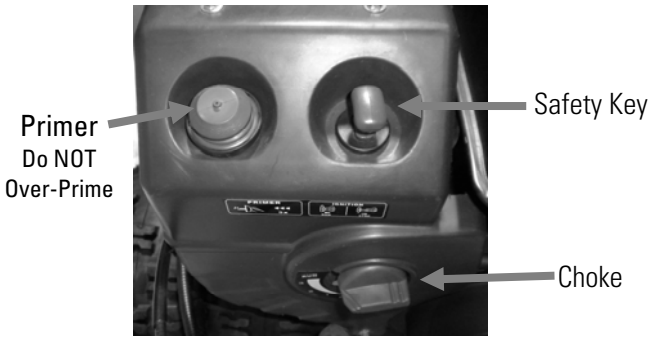
WARNING! The electric starter is designed to operate on 120 volt AC household current. Use only a UL-listed, 16 gauge extension cord for outdoor use that is no longer than 50 feet (15 meters).



To prevent damaging the electric starter wait 20 seconds between every electric start attempt and never use electric start in the rain.

Starting the Engine using the Electric Start

1. Use a safe, non damaged power cord to plug into the electric start outlet.
2. Make sure the safety key is fully inserted in order for the engine to start. Remove the key when the snow blower is not in use.
3. Firmly push the primer to force the fuel directly into the engine's carburetor. Push two to three times depending on the temperature. Note: Do not press the primer bulb more than 5 times. Fuel may leak from the carburetor with over priming.
4. Make sure the choke is set in the CHOKE position (choke more in colder temperatures).
5. Press the electric start button. Note: Do not engage starter more than 10 seconds each time.
6. After the engine is started, slowly turn the choke up one level at a time as the engine warms up until it is at the maximum level or "RUN LEVEL."
7. Unplug the extension cord before operating the



Do NOT over-prime the engine. Pressing the primer bulb more than 3x could result in flooding the carburetor making the engine hard to start

Transmission Control

Your snow blower is equipped with an easily adjustable transmission control, which can be adjusted for forward and reverse speed.

There are six forward and two reverse speeds.

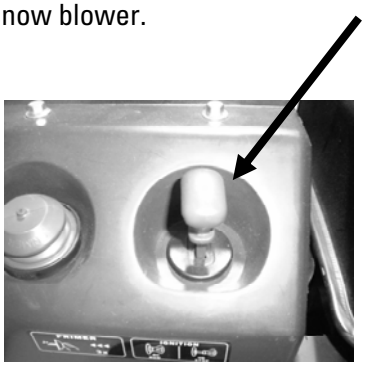
To change the speed, pull the handle out to the right and move the handle to the desired speed.

⚠ WARNING

DO NOT shift speeds while the transmission is engaged. Come to a complete stop and disengage the transmission handle before changing speed or switching from forward to reverse.

To Stop Engine

To stop the engine, pull the safety key up until the engine and augers/impeller stops running. For safety, it is recommended that you remove the key when not using the snow blower.



⚠ WARNING

WARNING! Do not operate the snow blower with defective guards, shields, or without the safety devices securely in place.

Engage Transmission Drive

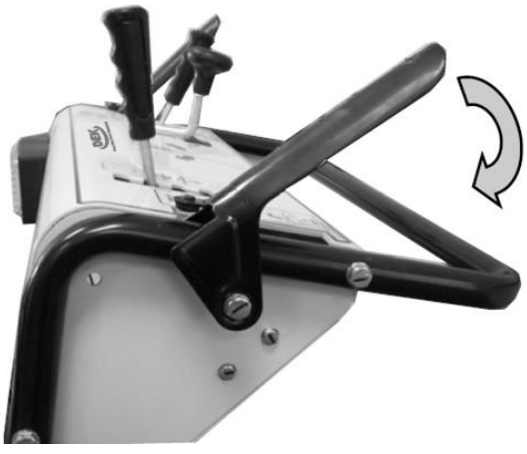
To engage the transmission drive squeeze the right lever to the hand grip.

To disengage, let go of the right lever.

Engage Augers/Impeller Control

To engage the augers/impeller drive, squeeze the left lever to the handgrip.

To disengage release the left lever.



IMPORTANT! The snow blower belts are adjusted to ensure the augers stop turning within five (5) seconds of releasing the impeller control lever. If you are making any belt adjustments whatsoever, for your safety and the safety of others around you, you must ensure the belts are re-adjusted to achieve this design specification.

Control Interlock Feature—One Hand Free Operation

The snow blower is equipped with a control interlock feature to allow the operator one hand free to change the direction of the discharge or adjust the discharge deflector without stopping the forward progress of the machine.

The interlock feature allows the operator's left hand to be free during use after both handles are fully engaged into the operating position. The fee hand can then rotate the discharge chute or adjust the discharge deflector angle.

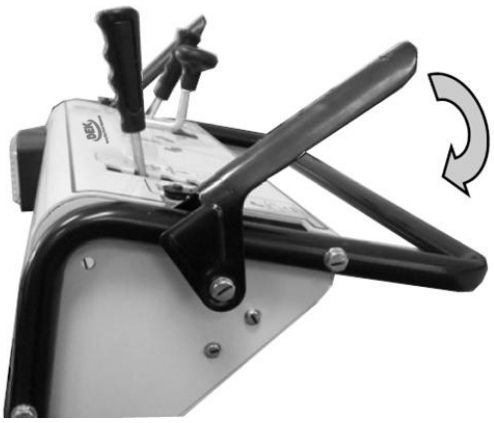
In order to stop the impeller / collector assembly and the transmission system, BOTH handles must be released.

The impeller control handle can be fully engaged, and the transmission lever can be engaged and disengaged without releasing the impeller control handle (free to engage or disengage at any time). This allows the impeller / collector assembly to continue to discharge snow while stopping to change speeds or allow the snow blower to clear the impeller

Engage Impeller/ Collector Control

To engage the impeller/collector drive, squeeze the left lever to the handgrip.

To disengage release the left lever.



Engage Transmission Drive

To engage the transmission drive squeeze the right lever to the hand grip.

To disengage, release the right lever.

WARNING

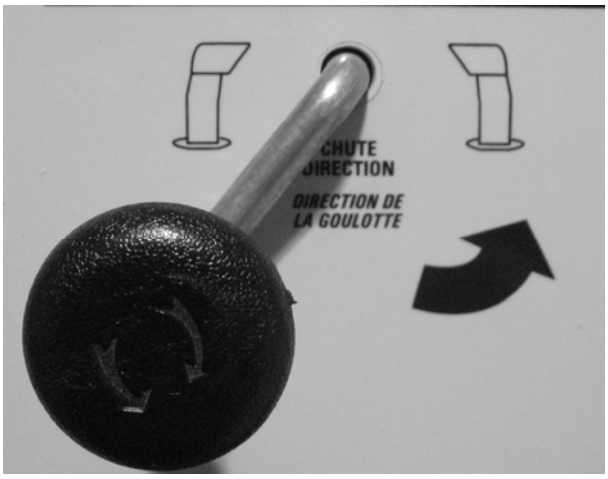
The operator of the snow blower should become familiar with this feature in a clear open area away from vehicles, homes, and away from public streets or areas with traffic.
Make certain that the operator is accustomed to all controls and the interlock feature before blowing snow.

If there are any questions regarding the control interlock feature of this snow blower please call:
GXi Customer Service at (919)-550-3259

Chute Direction Control

To rotate the chute to the right rotate the chute control clockwise.

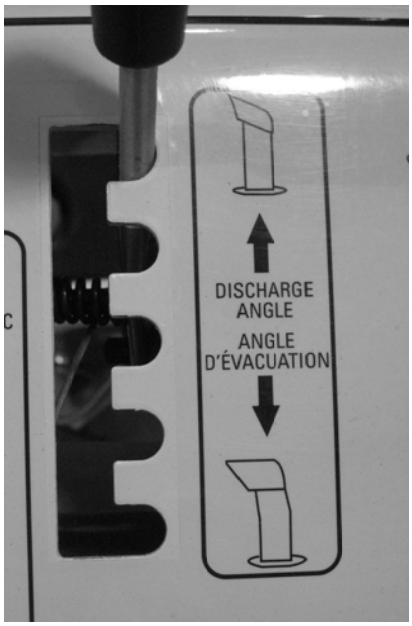
To rotate the chute to the left rotate the chute control counter-clockwise.



Chute Discharge Angle

There are five different angles the discharge chute can be arranged to discharge.

To change the discharge angle, pull the handle out to the left and move to the slot up to discharge snow at a higher angle and down to discharge snow at a lower angle.



Headlights

To turn on the lights, flip the switch up.
To turn off the lights, flip the switch down.
* Some models are equipped with an always on head-light that is always on when the engine is running.

WARNING

Never use your hands to clean a clogged chute or opening!

Clean Out Tool

Release both wheel and
impeller drives. Stop the engine by removing the safety key. Wait for all moving parts to stop.
Use clean out tool as needed.

DANGER

DANGER! Make certain the engine comes to a complete stop before putting you hands near the augers/impeller .

Using your DEK Snow Blower

The following tips will help ensure proper and long lasting use of your DEK snow blower. ALWAYS wear proper safety equipment when operating the snow-blower, and make sure you dress appropriately for cold weather.

Figure 1

- Before use, always ensure there is nothing lodged in the collector, or impeller area. Inspect the auger and impeller for damage from rocks or other debris, and ensure there is no string, twine, etc stuck on the auger or impeller shafts. Visually inspect for loose hardware or any control cables that are loose or disconnected. Ensure the shear-pins are intact before operation.

- Inspect the area you will be operating the snow blower. Avoid areas with rocks, large branches and limbs, or other debris that may damage the snow-blower. If operating the snow blower on a non-paved surface, lower the skid shoes to increase ground clearance, and prevent foreign objects from being thrown.

Figure 1

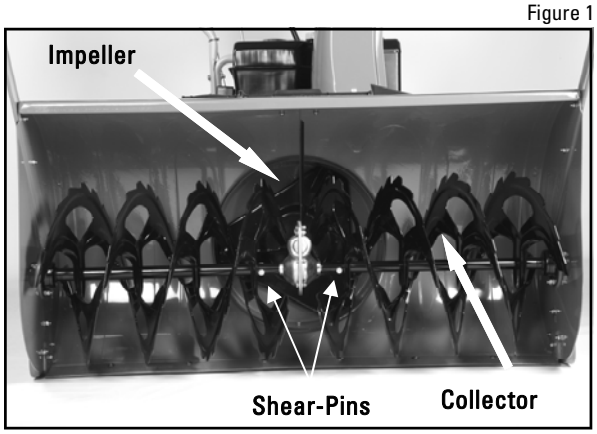


Figure 2

- To prolong the life of the friction wheel system, do not partially engage the drive system, or continually engage and dis-engage the drive system if the engine begins to slow under heavy loads. When operating the snow-blower in dense wet snow, or deep snowfalls, select a slower forward speed. Also, only shift speeds after coming to a complete stop.

Figure 3

- The snow blower uses a solid axle which means the wheels on either side of the snow blower turn together. When turning the snow-blower, do NOT stop the collector/impeller assembly. Keep the transmission engaged and pull on the handlebars to shift weight to the outside tire while pushing the snow blower through the turn. This will assist in turning the snow blower, and is especially important for the 45SD which uses double tires on each side.
  - ⇒Example: If turning left, shift the weight of the snow blower to the right. More weight on the right wheel helps the right side push the snow blower in the direction you wish to turn.
  - ⇒The wheels slip better when spinning than when stationary. Keeping the transmission engaged aids in turning the snow blower.
  - ⇒Keeping the collector /impeller assembly running prevents heavy snow from building up and making the unit difficult to turn.

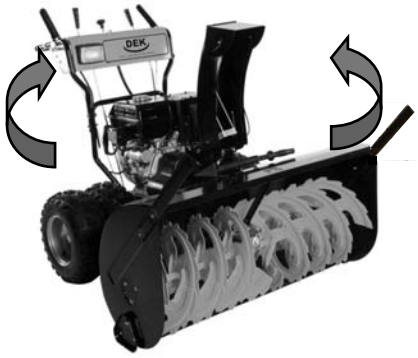
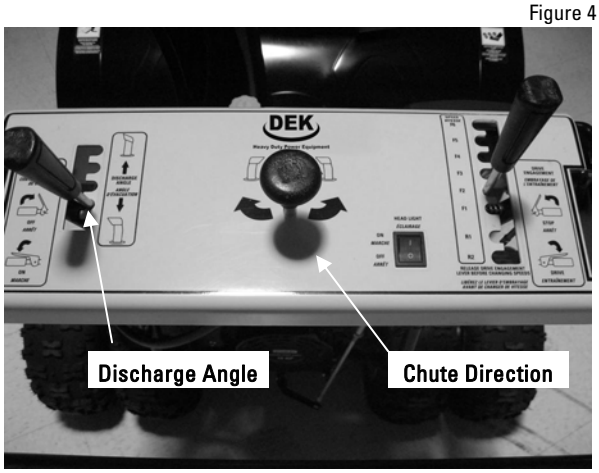


Figure 4

- Set the desired dis-charge direction and angle before engaging the auger/impeller. Always be aware of your surroundings and the direction the discharge chute and deflector are throwing snow to avoid injury to by standers or property damage.

Figure 4



Avoiding Impeller Freeze-Up

Impeller freeze-up occurs when snow and ice remain in the impeller housing after the job is finished. The remaining snow and ice melts partially and only temporarily due to residual heat in the snow blower. The remaining mixture re-freezes and essentially "welds" the impeller to the impeller housing and prevents rotation of the impeller.

Snow blowers are especially susceptible to freeze-up immediately after use when the machine is stored outside or in an un-heated garage where the temperature is below freezing.

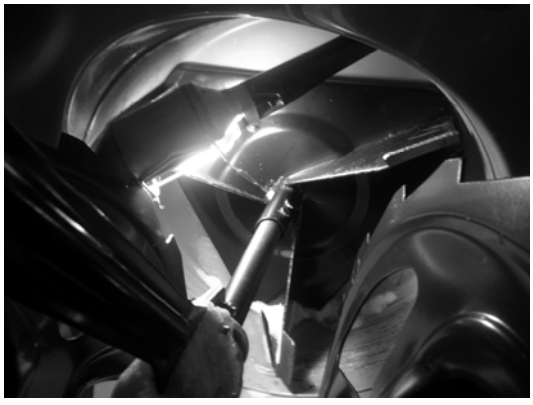
Residual snow in the discharge chute and impeller housing melts in the heat of the engine and friction from other rotating components. The melting residual drips and flows to the bottom of the impeller housing which is the furthest point from a heat source. During very cold conditions, the residual cannot escape through the drain hole before it freezes in the impeller housing and seizes the impeller. The remaining snow and ice pools in the bottom after the drain hole, and continues to build up ice around the components. The drain hole is located at the lowest point on the back of the impeller housing.

If the impeller is frozen up when the impeller / collector handle is engaged, the belts will bog down the engine and the belts will begin to burn on the engine pulley since they cannot move, or a shear pin could fail.

To avoid this, we recommend manually spinning the impeller before starting the snow blower to ensure it moves freely. If already frozen, a hairdryer will usually clear the ice quickly.

To avoid impeller freeze-up when storing in cold conditions, we recommend:

- Run the auger/impeller for a few minutes after snow blower use to clear any residual snow.
- After shutting off the snow blower, dust off any remaining snow.
- Manually spin the impeller so that none of the blades point straight down.
- Place a heat-source (an incandescent light bulb works well) in the housing (see photo right).
- Tarp the snow blower to retain the heat and to keep additional snow off the machine. Use caution when covering a hot snow blower. The muffler can melt covers or catch fire. Never cover a snow blower immediately after shutdown.



The Importance of Maintenance

Regular maintenance is essential to ensure your snow blower continues to deliver safe and high-quality performance.

To help you properly care for your snow blower, the following pages include a recommended maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Maintenance is the responsibility of the owner and must be performed regularly. More difficult service tasks or tasks that require special tools are best handled by a recommended service technician or other qualified mechanic.

The maintenance schedule described on page **21** applies to snow blowers used under normal operating conditions. If you operate your snow blower under severe conditions, such as sustained prolonged use or use it in unusually wet, dusty or rocky conditions, consult your servicing dealer for recommendations applicable to your individual needs and use.

Be sure to use genuine DEK Snow Blower replacement parts when servicing your snow blower to assure the best quality, safety and performance.

Need Help? Parts, Service and Technical Assistance (919)-550-3259

Check Skid Shoes

Check the skids to ensure that the auger does not contact the paved or gravel surface.

Adjust skids as necessary to make up for wear on the snow blower skid shoe surface.

Adjust skid shoes to have 1/4" clearance across the scrapper blade to reduce forces during turning and maneuvering.

Replacement skid shoes are available for purchase through GXi Parts & Service.

Part# B07111

www.serviceandwarrantyonline.com

Check Oil Level

CHECK ENGINE OIL BEFORE EACH USE. Add oil as needed according to dipstick level. Change oil as recommended on page 21 and follow proper procedures to check and change oil.

⚠ CAUTION

CAUTION! Before making any adjustments and/or servicing to your DEK Snow Blower , make sure the snow blower is on a level surface, with the ignition switch off, the key removed, and the augers disengaged. Also, disconnect the spark plug wires from the spark plugs and ground them against the engine to prevent inadvertent starting.

If you are performing adjustments or maintenance after operating the snow blower, allow the unit to cool and

⚠ CAUTION

CAUTION: Always wear work gloves when performing impeller and collector maintenance and beware of sharp edges. Be sure the engine is off, the key removed, and the spark plug wires are disconnected from the spark plugs to prevent inadvertent starting.

Shear Bolts

Check shear bolts (as well as other bolts) at frequent intervals for proper tightness to be sure the equipment is in safe working condition.

Do NOT use standard bolts to replace shear bolts.

Severe damage or injury could occur. Warranty is also void if shear bolts are not used.

Shear bolts are available for replacement through GXi Parts & Service.

Part# B06711

www.serviceandwarrantyonline.com

After Blowing Snow

Allow the machine to run with the impeller engaged for a few minutes after blowing snow to prevent freeze-up of the augers/impeller.

See page 19 for additional details for avoiding impeller freeze up which can lead to premature belt failure.

Item	Procedure	Time Interval				
		Break-in (first 5 hrs)	**Every 8 hrs** (daily)	**Every 40 hrs** (weekly)	**Every 100 hrs** (Bi-weekly)	**Every 200 hrs** (monthly)
Belts	Inspect Tension (adjust if needed)	X	X			
Augers/Impeller	Inspect for damaged and bent parts		X			
Shear Bolts	Inspect—both shear bolts must be present					
Engine Oil	Check—add as needed		X			
	Change 1.2-1.5 quarts			20-30 hrs		
Engine Spark Plug	Inspect			20-30 hrs		
Fuel System	Check				X	
Hardware	Check for proper tightness	X	X	X	X	X
Snow Blower Main Frame	Remove debris from under belt cover	Annually				
Safety Interlock System	Check Operations and Switches		X			
Tires	Check Air Pressure			X		
Collector / Impeller Brake	Collector/ Impeller stops in <5 seconds		X			

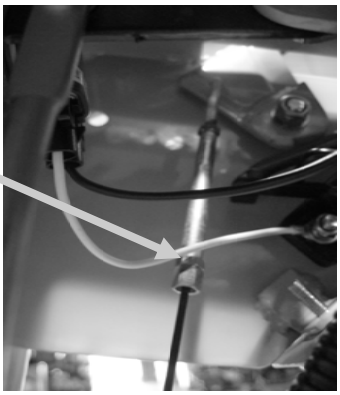
Cleaning the Snow blower

It is recommended that the DEK snow blower be cleaned on a daily basis. Excessive accumulation of dirt, debris, oil, etc. on the muffler, air inlet, snow blower augers/impeller and engine may present a potential safety hazard.

Adjusting Augers/Impeller Cable

If tension seems to be too loose or too tight, the augers/impeller, cables needs to be readjusted.

1. Loosen the bolt above where the cable screws in to the left side of the control panel.
2. Loosening the bolt enables the cable to screw in further, which makes the augers/impeller handle tighter.
3. Adjust the bolt and cable to the necessary adjustments.

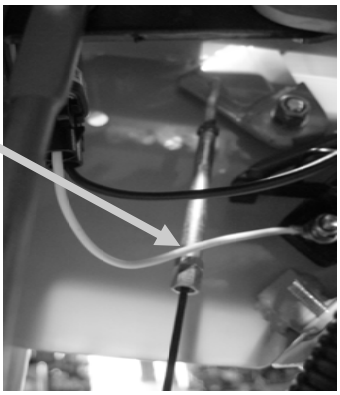


Additional setup procedures can be found in the impeller belt replacement instructions

Adjusting Drive Cable

If tension seems to be too loose or too tight, the drive cables needs to be readjusted.

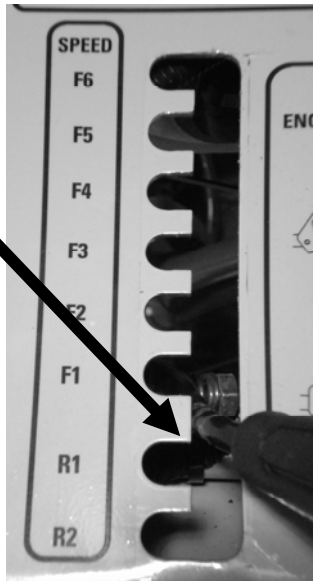
1. Loosen the bolt above where the cable screws in to the right side of the control panel.
2. Loosening the bolt enables the cable to screw in further, which makes the augers/impeller handle tighter.
3. Adjust the bolt and cable to the necessary adjustments.



Additional setup procedures can be found in the transmission service instructions.

Adjusting Shift Rod

The shift rod will be at a preset position from the factory, but after use, or maintenance, the shift rod may require occasional adjustment.



Signs of adjustment need:

1. The shift handle is moved to the F1 position, and when the engagement handle is pressed, the unit does not move.
2. The shift handle is moved to the R1 position, and when the engagement handle is pressed, the unit does not move.

If either of the above occur, it may be necessary to adjust using the following procedure:

1. Set the transmission handle to the space between F1 and R1 as shown on the right.
2. Loosen the 2 nuts on the adjustment turnbuckle.
3. Remove the cover plate from the transmission housing
4. Adjust the rod by turning the turnbuckle until the friction wheel aligns with the center of the circular disk in front of the rubber friction wheel.

Vertical Service Position

For some procedures it is necessary to put the snow blower into the vertical service position as instructed below. This allows for easy access to the top and the bottom of the snow blower.

1. Remove or place the drift cutters into the stored position.

2. Push up on the handle bars and rock the snow blower forward onto the front face of the collector housing as shown below.

Caution! Unit is heavy, this may require the assistance of a second person.

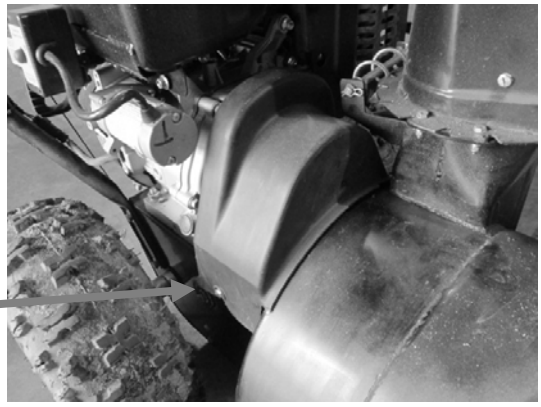
- Remove all fuel from fuel tank if possible by:
  - Turn fuel valve off
  - Remove fuel hose from fuel valve
  - Install short piece of fuel hose to valve
  - Turn fuel valve on and drain into gasoline safe container
- Make certain fuel valve is off.
- Tighten fuel and oil caps
- Remove key
- Close fuel valve
- Disconnect spark plug

DANGER

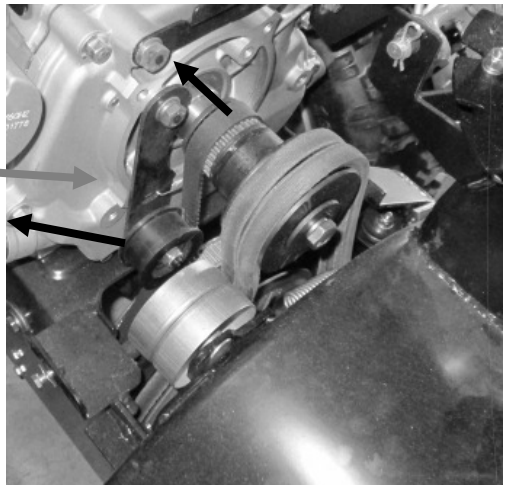
DANGER: GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. Do not add fuel while the engine is running or is hot. Keep open flames, sparks, and heat away from the fuel and store fuel in containers specifically designed for that purpose. **ADD FUEL OUTDOORS ONLY. IF THE FUEL IS SPILLED, DO NOT START THE ENGINE.** Manually push the snow blower away from the spill and wipe up immediately.

Inspection & Replacement of the Transmission Belt

The transmission belt is located under the belt guard between the engine and impeller. Follow the procedure below to inspect or replace the belt. Remove key, remove spark plug cable from spark plug and ground to the engine.



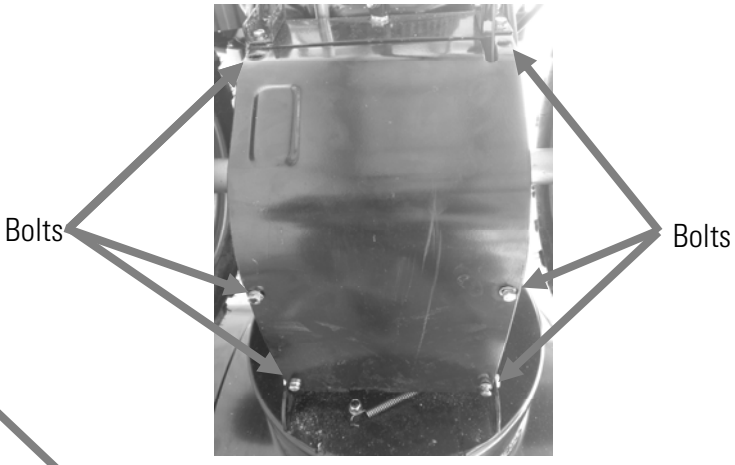
1. Loosen the two fasteners on either side of the belt cover. The cover will lift up and away from the snow blower during removal.
   The fasteners require a 10mm wrench or socket/ratchet.



2. Pull the transmission tension pulley arm away from the belt.
   While pulling the tension pulley arm, push the belt toward the engine—off of the pulley and onto the crankshaft.

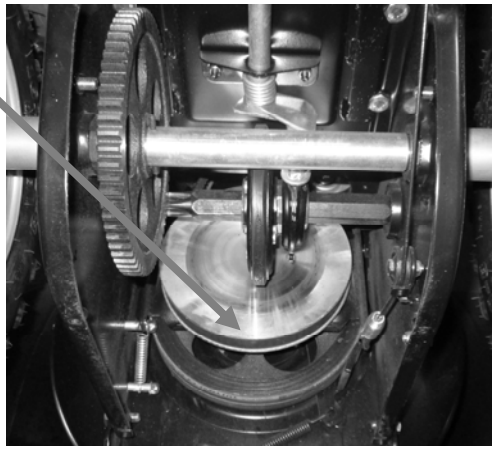
3. Remove the impeller belts from the front of the engine pulley. These belt should ONLY be removed from the engine pulley.
   Follow procedure for replacement of impeller belts for this item.

4. Put snow blower into the vertical service position standing on the front of the collector housing as instructed on page 23.



5. Remove the bottom cover (6 bolts) with a 10mm wrench or socket/ratchet.

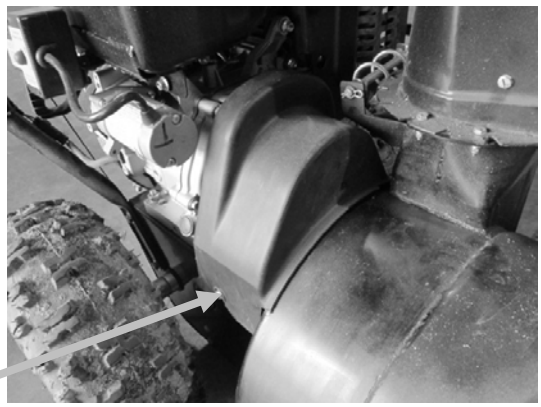
6. Remove the transmission belt from the aluminum pulley toward the back of the snow blower.



7. Pull the belt from the top side of the snow blower.
   The belt will have to be turned to the flat side to move between the friction wheel and the aluminum drive disk.
   The belt will removed between the impeller pulley on the engine and the impeller belts removed in Step 3.

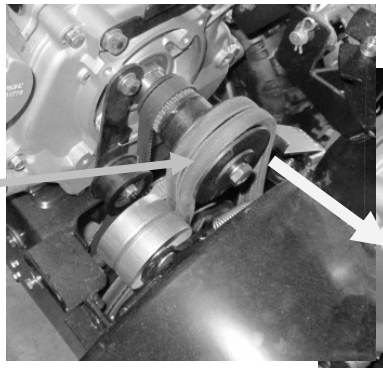
8. Reroute the new belt in reverse order from the removal process, and reverse the order of these steps to properly reassemble the belt to the pulleys.
   Double check that the belt is fully seated in both pulleys before replacing covers.

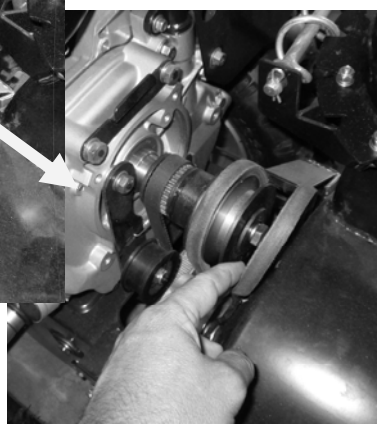
Inspection & Replacement of the Impeller / Collector Belts



The impeller / collector belts are also located under the belt guard between the engine and impeller. Follow the procedure below to inspect or replace the belts. Always replace these belts as a set. Remove key, remove spark plug cable from spark plug and ground to the engine.

1. Loosen the two fasteners on either side of the belt cover. The cover will lift up and away from the snow blower during removal.
   The fasteners require a 10mm wrench or socket/ratchet.

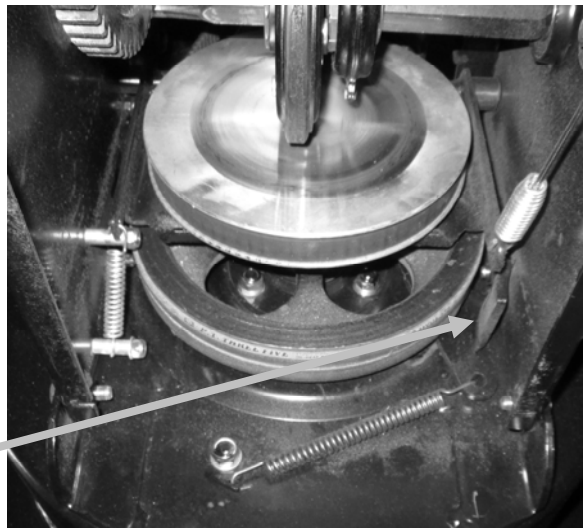




2. Remove the impeller belts from the front of the engine pulley.
   - Pull the front belt toward the front of the snow blower starting at the bottom of the engine pulley on the side without the idle pulley.
   - The belt may be snug, and it may be necessary to rotate the crankshaft or use a screwdriver to assist with rolling the belt out of the pulley groove.
   - Pull the back belt to the first pulley groove, then off of the front of the engine pulley.

3. Put snow blower into the vertical service position standing on the front of the collector housing as instructed in the service position page of the manual.

4. Remove the bottom cover (6 bolts) with a 10mm wrench or socket/ratchet. See diagram in Inspection and Replacement of Transmission Drive Belt.



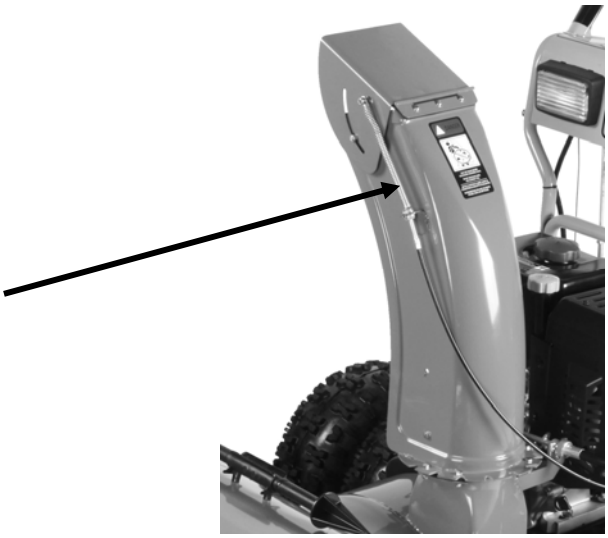
5. Using a piece of rope or strap, tie the impeller / collector engagement handle into the engaged position. This will pull the brake off of the large impeller pulley allowing the belts to be removed from this pulley.

6. Remove the belts one by one toward the top of the snow blower. Tie the transmission engagement handle in the engaged position if necessary for additional clearance while removing the belts.

7. Reroute the new belt in reverse order from the removal process, and reverse the order of these steps to properly reassemble the belt to the pulleys.
   Double check that the belt is fully seated in both pulleys before replacing covers.

IMPORTANT! The snow blower belts are adjusted to ensure the augers stop turning within 5 seconds of releasing the augers/impeller control lever. If you are making any belt adjustments whatsoever, for your safety and the safety of others around you, you must ensure the belts are re-adjusted to achieve this design specification.

Adjusting Discharge Deflector



The discharge chute is preset at the factory, but may require adjustment over time or during maintenance. For adjustments, follow the procedure below:

1. Loosen the two nuts at the chute cable mount on the discharge chute.
2. To make the chute open more, adjust nuts so the cable end moves closer to the discharge deflector (upward).
3. To make the chute close more, adjust nuts so the cable end moves further from the discharge deflector (downward).

Changing Friction Wheel

If the friction wheel needs to be replaced for any reason:

1. Remove the six bolts to remove the cover underneath the control panel between the wheels.
2. Remove the bolt and nut in the hexagonal shaft carrying the friction wheel
3. With the bolt and locking nut removed, the shaft can be removed with the rubber friction wheel assembly.
4. Replace the friction wheel and reassemble in reverse order.
5. Resetting the neutral position may be necessary.

The friction wheel can also be removed from the vertical service position as outlined on page 23. It can be removed without lifting the unit into the vertical service position.

Replacement friction wheel assemblies are available for purchase through GXi Parts & Service
Part# B02510

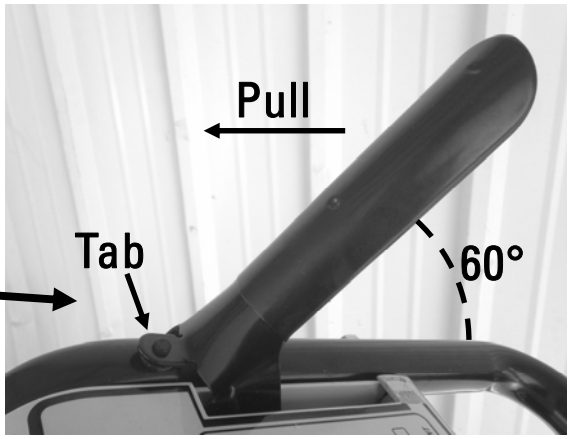
Replacing Headlight Bulb

1. Push the headlight case up from the bottom, then gently lift the headlight out.
2. Twist and remove bulb from headlight assembly
3. Replace the bulb and lock the headlight back into place the same way it was taken out.

Replacement bulbs are available for purchase through GXI Parts & Service.
Part# B03211

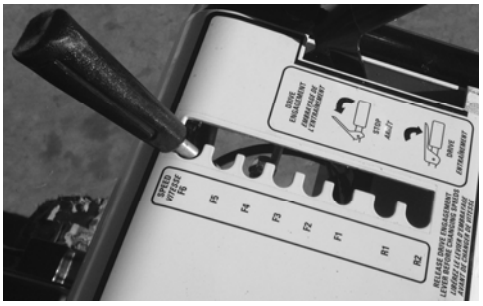
Transmission System Adjustment

If the friction wheel is changed or the snow blower requires more force to the ground to push snow, follow the procedure below to setup the transmission system. Remove key, remove spark plug cable from spark plug and ground to the engine.



1. Inspect the transmission engagement handle. The handle should have approximately 60 degrees of travel to ensure the correct transmission tension can be applied. The return stop tab may need to be bent to achieve the 60 degree opening.

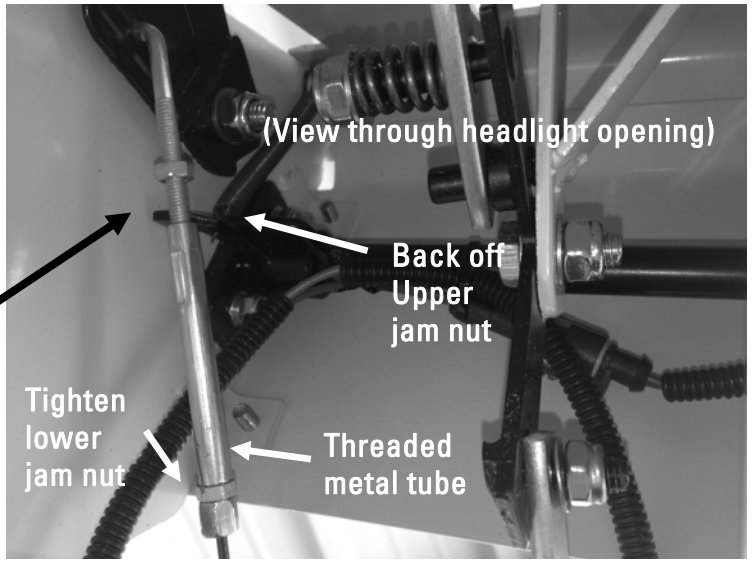
2. Set the transmission speed lever to F6.



3. Remove the headlight to gain access for adjustments. See more details in the headlight removal procedure.

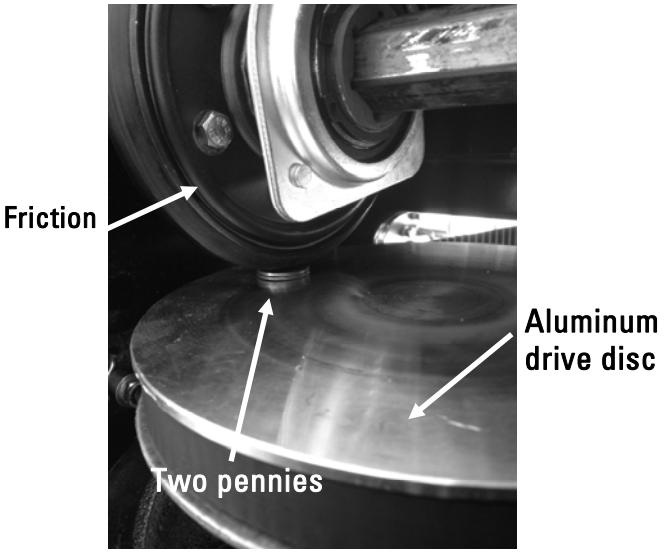
4. Put snow blower into the vertical service position standing on the front of the collector housing as instructed in the service position page of the manual.

5. Remove the bottom cover (6 bolts) with a 10mm wrench or socket/ratchet. See diagram in Inspection and Replacement of Transmission Drive Belt.



6. Back the upper jam nut off of the threaded metal tube and tighten the lower jam nut against the threaded metal tube. Using pliers and 8mm wrench.

7. Adjust the threaded metal tube to achieve the correct clearance between the friction wheel and drive disc.
   - Clockwise applies more tension to the friction wheel and transmits more power to the ground.
   - Counter-clockwise relieves tension to the friction wheel and transmits less power to the ground.
   - Adjust until two stacked pennies or other 1/8 inch thick gauge will barely fit between the drive disc and the friction wheel.
   - If unit is to be used on inclines exceeding 5 degrees, turn the threaded metal tube clockwise one full turn after removing the pennies or gauge. Note that this may increase friction wheel wear. Transmission maintenance will be required each season. It is recommended that a spare friction wheel be ordered: GXi part number B02510.



8. Tighten the upper jam nut against the threaded metal tube and remove the pennies.

9. Reassemble by reversing the disassembly steps above. Make certain all connections are properly tightened.

Short Term Storage

- Let engine cool before storing and do not store near flame, high heat, and possible ignitions from sparks.
- Always clean off all flammable material as well as grime and dirt before storage.
- Wash with mild detergent and water only.
- After washing the machine engage the engine at high and let the snow blower run for 5 minutes.
- Store snow blower only on the ground.
- Follow recommendations to avoid impeller freeze up.
- Do not drain fuel indoors or near a flame.
- Always park machine on level ground.
- Store the machine in a clean and dry environment.
- Always remove the safety key and ground the spark plug to the engine.
- Always run the snow blower before storage to clear up snow to prevent freeze up.
- Check all parts to see if they are in working condition.

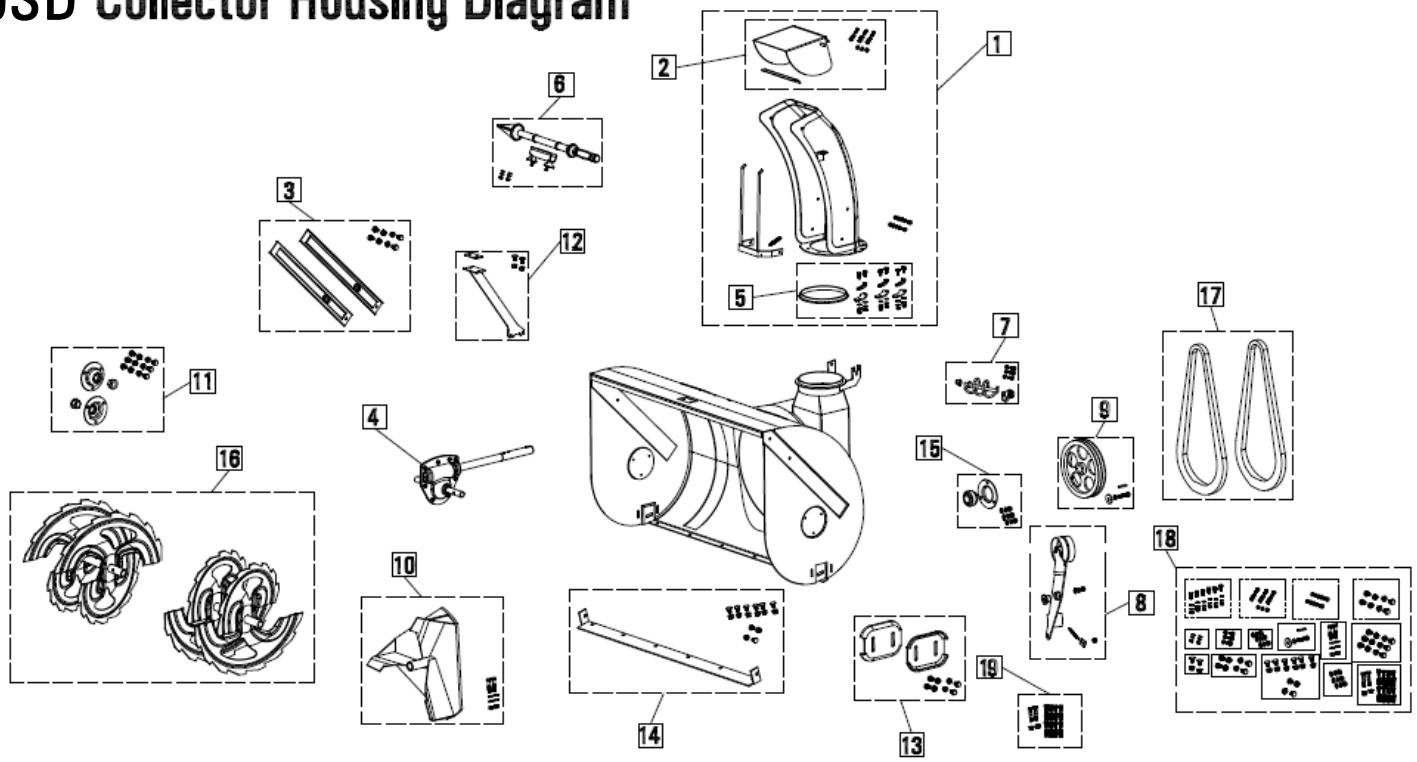
Extended Storage

- Make sure all fuel is drained from the carburetor before storing.
- To ensure all fuel is drained from the snow blower, turn the fuel valve off, then run the snow blower until it runs out of gas before storage.
- Add a fuel stabilizer to fresh fuel on the last refueling day.
- Check the spark plug condition and pour two tablespoons of engine oil in the spark plug holes and leave the spark plugs off.
- Cover the machine when in storage.
- Everything mentioned in short term storage should also be applied to extended storage.

Problem	Possible Causes	Solution
Engine will not start	1. Key in the OFF position 2. Insufficient fuel in the tank 3. Air bubble in the fuel line 4. Fuel valve in OFF position 5. Choke not ON 6. Choke linkage out of adjustment 7. Loose spark plug wire 8. Fouled spark plug 9. Plugged or dirty air filter 10. Bad / old gasoline	1. Turn key to ON position 2. Add gasoline 3. Prime engine or shake bubble out 4. Turn valve ON 5. Turn choke ON 6. Refer to Engine Owner's Manual 7. Add engine oil 8. Tighten wire or connections 9. Clean or replace the plug 10. Clean or replace the air filter 11. Drain and replace with fresh gasoline
Fuel is leaking from the engine.	1. Primer bulb was pressed too many times. 2. Fuel hose has become dis-connected 3. Carburetor has contaminants in it causing the bowl to flood.	1. Do not press primer more than 3 times. Wipe off excess fuel and allow to dry COMPLETELY before attempting to start 2. Re-connect fuel hose and clamp(s) 3. Fuel tank and carburetor needs to be flushed and carburetor needs cleaning.
Engine will not start with electric starter	1. Not using proper gauge cord 2. Safety key is loose 3. No power from electrical source	1. Use 120V 16 gauge cord in good condition. 2. Verify the safety key is fully inserted. 3. Check breaker and plug connections
Engine will not keep running/quits	1. Water in the fuel 2. Fuel valve is OFF 3. Low engine oil	1. Drain and replace with fresh fuel 2. Turn fuel valve ON 3. Add engine oil
Augers do not turn	1. Shear pins holding the augers may have sheared.	2. If the pins sheared, replace them as needed after applying lubricant into the shaft. Call GXi Parts & Service at 1-919-550-3259 or email: customerservice@gxioutdoorpower.com for parts.
Shaft is not turning	1. Shear-Pins holding the augers may have sheared. 2. Check the gearbox.	If the pins sheared, replace them as needed after applying lubricant into the shaft. Call GXi Parts & Service at 1-919-550-3259or email: customerservice@gxioutdoorpower.com for parts.
Snow blower always pulls to one side	1. Skid shoes and / or scrapper blade dragging more on one side than the other 2. Air pressure in tires is not equal on both sides.	1. Adjust skid shoes and / or scrapper blade so the scrapper blade drags uniformly on the surface being blown. 2. Check air in tires. Add or remove pressure as needed.

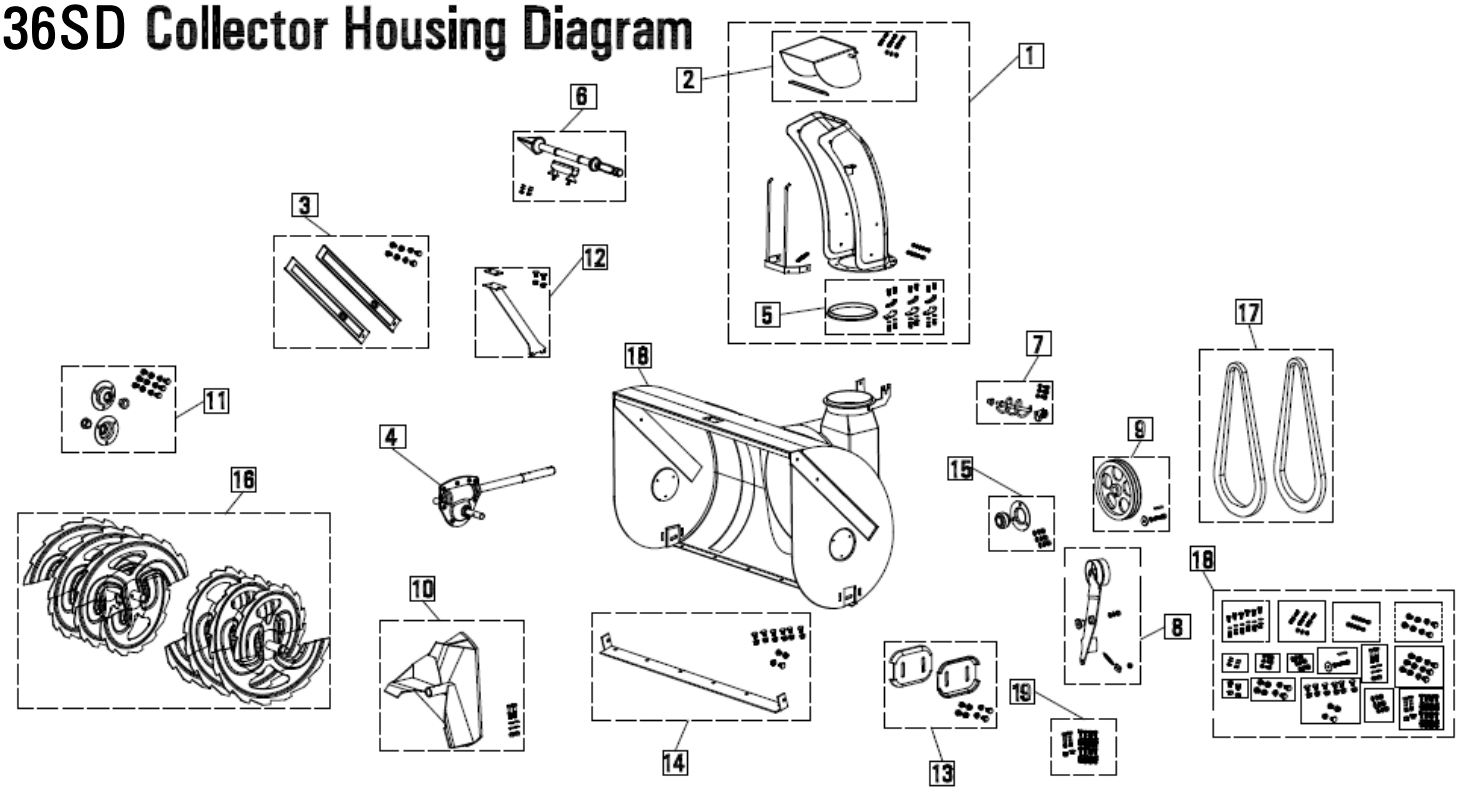
Problem	Possible Causes	Solution
Snow blower will not move forward or reverse	1. Transmission cable out of adjustment (too loose) or damaged. 2. Friction wheel rubber worn	1. Readjust transmission cable If damaged, replace and readjust (page 27) 2. Replace friction wheel assembly (page 26)
Cannot move snow blower when the engine is off	1. Transmission handle is pressed into the engaged position 2. Transmission cable out of adjustment (too tight)	1. Release transmission handle 2. Readjust transmission cable (page 27)
Engine is overheating	1. Dirt in the fuel line 2. Dirty air filter 3. Low engine oil 4. Fouled spark plug 5. Misuse of the snow blower	1. Replace fuel filter and flush tank 2. Clean or replace the air filter 3. Add engine oil 4. Replace spark plug 5. Walk the snow blower slowly

30SD Collector Housing Diagram



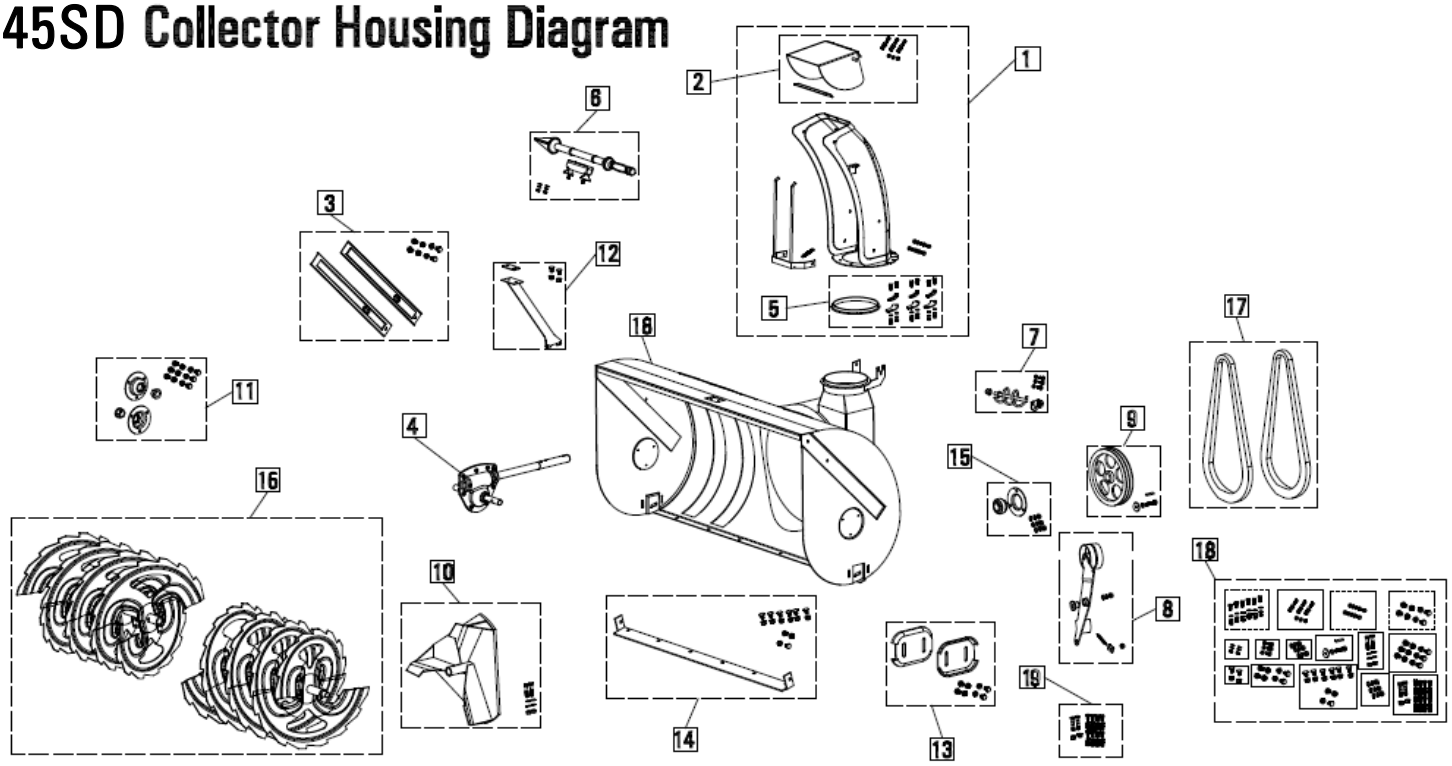
30SD Collector Assembly Diagram Key - Year Model 2012/13		
Item #	GXi Part Number	Description
1	B00612	Discharge chute assembly, SS black, with labels, hand guard, hand guard spring, deflector, deflector seal, plastic rotation ring, chute mounts and spacers, deflector cable, and hardware
2	B00812	Discharge chute deflector, SS black, with deflector seal and hardware
3	B01010	Drift cutters, set of 2, SS black, with hardware
4	B01412	Auger/Impeller gear box, SB, SS
5	B01512	Discharge chute rotation ring, SB, SS, black chute mount tabs, chute mount spacers with steel tube inserts, and hardware
6	B02410	Snow cleanout tool with mounting bracket and hardware
7	B03712	Discharge chute direction gear (spiral gear), SB, SS, with threaded chute cable connection, cotter pin, plastic bushing, flat washer, and hardware
8	B04812	Auger/Impeller clutch pulley assembly, SB, SS, includes clutch arm, idle pulley, hardware, brake spring with spring mount, and pivot bushing
9	B05112	Auger/Impeller pulley, SB, SS, double V, with key and mounting hardware - loctite recommended (not included)
10	B06511	Impeller, SB, SS, welded 3 blade impeller with hardware
11	B06811	Auger shaft bearings, SB, SS, collector housing end, with plastic bushing, bearing housing and hardware
12	B06912	Gear box support bar, SB, SS, black reinforcement, with top reinforcement plate, and hardware.
13	B07011	Skid shoes, set of 2, steel, reversible, SS black, with hardware
14	B10912	30" Scraper blade assembly, 30SB, 30SS, black, with hardware, scrapper blade assembles to bottom of collector housing with carriage bolt heads down.
15	B08211	Impeller shaft main bearing with support bracket and hardware, SB, SS, black
16	B09511	30" Snow collectors (augers), set, 30SB, 30SS, black only replacements
17	B08911	Auger/Impeller belt set of 2, SB, SS, aramid fiber MXV4-370
18	B08112	Collector assembly hardware kit, SB, SS
19	B06711	Shear bolts, package of 10 with locking hardware

36SD Collector Housing Diagram



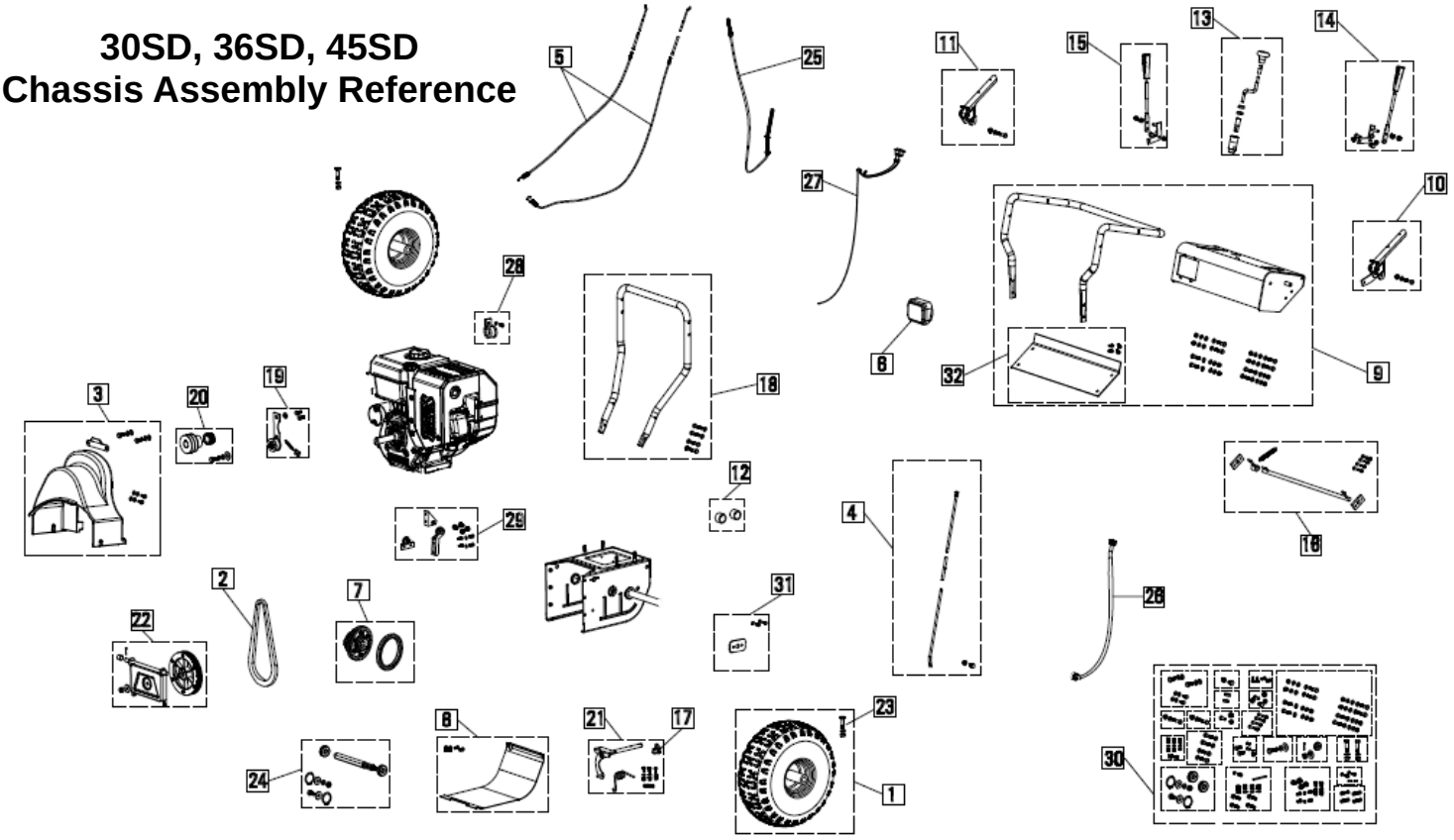
36SD Collector Assembly Diagram Key - Year Model 2012/13		
Item #	GXi Part Number	Description
1	B00612	Discharge chute assembly, SS black, with labels, hand guard, hand guard spring, deflector, deflector seal, plastic rotation ring, chute mounts and spacers, deflector cable, and hardware
2	B00812	Discharge chute deflector, SS black, with deflector seal and hardware
3	B01010	Drift cutters, set of 2, SS black, with hardware
4	B01412	Auger/Impeller gear box, SB, SS
5	B01512	Discharge chute rotation ring, SB, SS, black chute mount tabs, chute mount spacers with steel tube inserts, and hardware
6	B02410	Snow cleanout tool with mounting bracket and hardware
7	B03712	Discharge chute direction gear (spiral gear), SB, SS, with threaded chute cable connection, cotter pin, plastic bushing, flat washer, and hardware
8	B04812	Auger/Impeller clutch pulley assembly, SB, SS, includes clutch arm, idle pulley, hardware, brake spring with spring mount, and pivot bushing
9	B05112	Auger/Impeller pulley, SB, SS, double V, with key and mounting hardware - loctite recommended (not included)
10	B06511	Impeller, SB, SS, welded 3 blade impeller with hardware
11	B06811	Auger shaft bearings, SB, SS, collector housing end, with plastic bushing, bearing housing and hardware
12	B06912	Gear box support bar, SB, SS, black reinforcement, with top reinforcement plate, and hardware.
13	B07011	Skid shoes, set of 2, steel, reversible, SS black, with hardware
14	B07212	36" Scraper blade assembly, 36SB, 36SS, black, with hardware, scrapper blade assembles to bottom of collector housing with carriage bolt heads down.
15	B08211	Impeller shaft main bearing with support bracket and hardware, SB, SS, black
16	B08311	36" Snow collectors (augers), set, 36SB, 36SS, black only replacements
17	B08911	Auger/Impeller belt set of 2, SB, SS, aramid fiber MXV4-370
18	B08112	Collector assembly hardware kit, SB, SS
19	B06711	Shear bolts, package of 10 with locking hardware

45SD Collector Housing Diagram



45SD Collector Assembly Diagram Key - Year Model 2012/13		
Item #	GXi Part Number	Description
1	B00612	Discharge chute assembly, SS black, with labels, hand guard, hand guard spring, deflector, deflector seal, plastic rotation ring, chute mounts and spacers, deflector cable, and hardware
2	B00812	Discharge chute deflector, SS black, with deflector seal and hardware
3	B01010	Drift cutters, set of 2, SS black, with hardware
4	B01412	Auger/Impeller gear box, SB, SS
5	B01512	Discharge chute rotation ring, SB, SS, black chute mount tabs, chute mount spacers with steel tube inserts, and hardware
6	B02410	Snow cleanout tool with mounting bracket and hardware
7	B03712	Discharge chute direction gear (spiral gear), SB, SS, with threaded chute cable connection, cotter pin, plastic bushing, flat washer, and hardware
8	B04812	Auger/Impeller clutch pulley assembly, SB, SS, includes clutch arm, idle pulley, hardware, brake spring with spring mount, and pivot bushing
9	B05112	Auger/Impeller pulley, SB, SS, double V, with key and mounting hardware - loctite recommended (not included)
10	B06511	Impeller, SB, SS, welded 3 blade impeller with hardware
11	B06811	Auger shaft bearings, SB, SS, collector housing end, with plastic bushing, bearing housing and hardware
12	B06912	Gear box support bar, SB, SS, black reinforcement, with top reinforcement plate, and hardware.
13	B07011	Skid shoes, set of 2, steel, reversible, SS black, with hardware
14	B11012	45" Scraper blade assembly, 45SB, 45SS, black, with hardware, scrapper blade assembles to bottom of collector housing with carriage bolt heads down.
15	B08211	Impeller shaft main bearing with support bracket and hardware, SB, SS, black
16	B08411	45" Snow collectors (augers), set, 45SB, 45SS, black only replacements
17	B08911	Auger/Impeller belt set of 2, SB, SS, aramid fiber MXV4-370
18	B08112	Collector assembly hardware kit, SB, SS
19	B06711	Shear bolts, package of 10 with locking hardware

30SD, 36SD, 45SD
Chassis Assembly Reference



30,36,45SD **Collector Assembly Diagram Key - Year Model 2012/13**		
Item#	**GXi Part Number**	**Description**
1	B00112	Snowtire and rim, SB, SS, includes shoulder bolt and locking nut
2	B01110	Transmission belt, timing belt, SB, SS
3	B01312	Belt guard, SB, SS, plastic, top retaining tab and with hardware
4	B01910	Shift rod assembly, SB, SS, connects between shift handle and transmission linkage on chassis
5	B02010	Auger/Impeller OR Transmission Engage cable, SB, SS, ONE cable per package, includes spring, adjustment tube, jam nut, and attachment rod
6	B02212	Headlight assembly, SB, SS, includes bezel, light housing, bulb, and wires to first 2-pin connector
7	B02510	Friction wheel assembly with bearings, SB, SS
8	B02610	Chassis bottom cover, SB, SS, black with hardware
9	B02712	Upper control handle assembly, SS black and yellow, includes 30mm wrapped handle, control panel, control panel cover, assembly hardware, controls label applied, and 30", 36", and 45" labels included - customer installs model label depending on their model
10	B09112	Left snowblower control handle, SS black, for 30mm handlebars, includes rubber grip, and hardware
11	B09212	Right snowblower control handel, SS black, for 30mm handlebars, includes rubber grip and hardware
12	B11312	Wheel spacers, SB, SS, sets proper wheel clearance from chassis
13	B03512	Chute direction control handle, SB, SS, includes crank handle, rubber knob, square cable receiver, bearings, and cable adapter
14	B03811	Discharge chute angle lever, left, SB, SS, includes rubber grip, mounting hardware, and cable connection pivot
15	B03911	Transmission speed shift lever, right, SB, SS, includes rubber grip, mounting hardware, and transmissioni shift rod connection pivot
16	B04412	Control handle interlock assembly, SB, SS, includes rod, pivot tab, springs, end connections, and hardware
17	B04511	Cutter transmission shaft linkage, SB, SS, black, adapts transmission shift shaft on chassis to transmission control rod on control panel

30,36,45SD **Collector Assembly Diagram Key - Year Model 2012/13**		
Item#	**GXi Part Number**	**Description**
18	B04612	Lower handle bar frame, SS black, 30mm lower handle bar with hardware to connect to chassis
19	B04912	Transmission belt idle pulley assembly, SB, SS, includes idle pulley, radused pivot arm, pivot bushing, tension spring and hardware
20	B05011	Crankshaft pulley assembly, SB, SS, includes double-v impeller driving pulley, transmission timing belt driving pulley, retaining spacers, key, and hardware
21	B05612	Transmission shift assembly, SB, SS, includes friction wheel shifting shaft, front shaft mount, outer transmission shift linkage, and hardware
22	B09311	Friction wheel aluminum drive disc assembly, SB, SS, includes aluminum timing pulley / drive disc mounted to transmission pivot plate
23	B09412	Snowblower wheel retaining shoulder bolt, Set of 2, SB, SS
24	B09711	Intermediate transmission shaft, SB, SS, hex shaft / small driving gear with bearings, snap rings, and hardware
25	B02110	Discharge chute deflector cable, SB, SS, includes spring, spring guides and hardware
26	B01810	Chute direction control cable, SB, SS
27	B00412	Headlight switch and wiring harness, SB, SS, with two pin connectors, includes wire loom
28	B08012	One hole strap with rubber liner, SB, SS, retains chute rotation and deflector cables with mounting bolt
29	B10612	Auger/Impeller and transmission cable guide pulley kit, SB, SS, includes cable guide pulleys and mounting brackets
30	B08012	Chassis assembly hardware kit, SB, SS
31	B11112	Transmission pivot plate tab with hardware, SS, SB
32	B11412	Control panel cover, SS yellow, with hardware
33	B11312	Wheel spacers, SB, SS, sets proper wheel clearance from chassis

To order replacement parts, visit our web-site at www.serviceandwarrantyonline.com
Or dial Toll Free 1-800-393-0668 Monday-Friday 8AM-5PM
OEM Replacement Parts

Engine Parts	
GXi Part Number	Description
E10211	Fuel Primer Bulb Kit: Includes primer bulb assembly, fuel line, and 2 clamps. Models: 30SB, 30SD, 36SB, 36SD, 45SB, 45SD
B01712	Fuel Tank with gas cap, fuel valve, fuel line, and clamps for 420cc Snow Blower Engine. Models: 36SB, 36SD, 45SB, 45SD
B09611	Oil Fill Plug and Gasket for 420cc & 302cc Snow blower Engine. Models: 30SB, 30SD, 36SB, 36SD, 45SB, 45SD
E11512	Engine Assembly - 302cc Electric Start (Includes complete ready to run engine assembly with fuel tank and recoil. Does NOT include crankshaft pulleys.) Models: 30SD, 30SB
E07612	Engine Assembly - 420cc Electric Start (Includes complete ready to run engine assembly with fuel tank and recoil. Does NOT include crankshaft pulleys.) Models: 36SB, 36SD, 45SB, 45SD
E10811	Engine Recoil Assembly for 302cc Snow blower Engine. Models: 30SD, 30SB
E07910	Engine Recoil Assembly for 420cc Snow blower Engine. Models: 36SB, 36SD, 45SB, 45SD
E11311	Carburetor Assembly for 302cc Snow blower Engine. Models: 30SD, 30SB
E08010	Carburetor Assembly for 420cc Snow blower Engine. Models: 36SB, 36SD, 45SB, 45SD
E08110	Snow blower Safety Key Models: 30SB, 30SD, 36SB, 36SD, 45SB, 45SD
E08210	Fuel Tank Lid. Models: 30SB, 30SD, 36SB, 36SD, 45SB, 45SD
E09211	Snow blower fuel tank screen. Models: 30SB, 30SD, 36SB, 36SD, 45SB, 45SD
E10411	Muffler Cover for 302cc Snow blower Engine. Models: 30SD, 30SB
E10311	Engine Cover for 302cc Snow blower Engine. Models: 30SD, 30SB
E09311	Engine Cover for 420cc Snow blower Engine. Models: 36SB, 36SD, 45SB, 45SD
E09411	Muffler Cover for 420cc Snow blower Engine. Models: 36SB, 36SD, 45SB, 45SD
E09511	Muffler Assembly for 420cc Snow blower Engine. Includes muffler and elbow and air check valve. Models: 36SB, 36SD, 45SB, 45SD
E09612	Oil Fill and Drain Assembly. Includes oil fill neck, dipstick, drain tube and drain bolt. For 420cc & 302cc Snow blower Engine. Models: 30SB, 30SD, 36SB, 36SD, 45SB, 45SD
E10611	120V Electric Start Assembly for 302cc Snow blower Engines. Models: 30SD, 30SB
E09711	120V Electric Start Assembly for 420cc Snow blower Engines. Models: 36SB, 36SD, 45SB, 45SD
E09811	EPA Approved Fuel line - Preformed for 420cc snow blower engine. Includes hose clamps. Models: 36SB, 36SD, 45SB, 45SD
E09911	Snow blower engine on/off switch. Includes safety key. Models: 30SB, 30SD, 36SB, 36SD, 45SB, 45SD
E10012	Plastic choke knob for 420cc & 302cc Snow blower engines. Models: 30SB, 30SD, 36SB, 36SD, 45SB, 45SD

Products Covered by this Warranty	Length of Warranty: *(from the date of original retail purchase)		
	Non-commercial/ Non-rental	Commercial	Rental
Engine	24 Months Limited	90 Days Limited	90 Days Limited
Transmission	24 Months Limited	90 Days Limited	90 Days Limited
Snow blower	24 Months Limited	90 Days Limited	90 Days Limited
All Steel Gear Case	60 Months Limited	12 Months Limited	12 Months Limited

*LENGTH OF WARRANTY: Batteries supplied with applicable products as standard, original equipment are covered by this warranty for a period of 90 days from the date of original retail product purchase. Consumable parts such as oil, spark plugs, shear pins, filters, dirty carburetors, and augers/impeller are not covered by this warranty.

To Qualify for this Warranty
The product must be purchased in the United States from a dealer authorized by GXi Outdoor Power, LLC to sell those products. This warranty applies to first retail purchaser/owner during the applicable warranty time period. SAVE YOUR PROOF OF PURCHASE RECEIPT.

What GXi Outdoor Power Will Repair or Replace under Warranty
GXi will repair or replace, at its option, any part that is proven to be **defective in material or workmanship** under normal use during the applicable warranty time period subject to the exclusions stated herein. This warranty is void if the owner fails to follow the prescribed maintenance and operating procedures described in this manual. This specifically refers to ensuring routine lubrication and oil changes are made, that fuel stabilizer is used when the product is stored and that the product is not overloaded.

GXi has the right to recover warranty administration costs from the owner if the root cause of the malfunction is found to be other than defective material or workmanship. In particular, this warranty does not cover: contaminants in the fuel or oil; damage caused by not following the prescribed warnings and operating practices; failure to follow proper maintenance and storage procedures; and physical damage due to misuse, shipping, handling or storage.

Warranty repairs will be made without charge for parts and labor for the first year.
Anything replaced under warranty becomes the property of GXi. Parts replaced under warranty will be considered as part of the original product and any warranty on those parts will expire coincident with the original product warranty.

To Obtain Warranty Service
You must take the DEK product, accessory, replacement part, apparel or the power equipment on which the accessory or replacement part is installed, and proof of purchase, at your expense, to any DEK service location in the United States, who is authorized to service that product, during the service location's normal business hours. If you are unable to obtain warranty service, or are dissatisfied with the warranty service you receive, take the following steps: First, contact the manager of the service center involved; normally this will resolve the problem. However, if you should require further assistance, write or call the GXi Parts and Service, LLC.

Exclusions
This warranty does not cover: normal wear, contaminants in the fuel or oil; damage as a result of use in an application for which the product was not designed; damage caused by incorporation or use of unsuitable attachments or parts, unauthorized alteration, or other misuse and neglector; damage caused by failure to follow the prescribed warnings, operating practices, proper maintenance and storage procedures; parts affected or damaged by accident and/or collision; damage due to shipping, handling, storage or any causes other than defects in material or workmanship of the product. The customer is responsible for transporting the snow-blower to and from the service center. Pick Up & Delivery service will depend on service center availability and willingness, and will be made at the owner's expense.

Disclaimer of Consequential Damage and Limitation of Implied Warranties
GXi disclaims any responsibility for loss of time or use of the product, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written limited warranty.

THIS WARRANTY IS VOID IF THE MANUFACTURING DATE AND THE SERIAL NUMBER ON THE EQUIPMENT HAS BEEN REMOVED OR THE EQUIPMENT HAS BEEN MODIFIED.

EMISSION CONTROL SYSTEM INFORMATION
The U.S. and California Clean Air Acts
EPA and California regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emission control systems. The following instructions and procedures must be followed in order to keep the emissions from your engine within the emission standards. Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are ''certified'' to EPA standards.
The emission control systems on your engine were designed, built, and certified to conform with EPA regulations. We recommend the use of genuine parts whenever you have maintenance done. These original-design replacement parts are manufactured to the same standards as the original parts, so you can be confident of their performance. The use of replacement parts that are not of the original design and quality may impair the effectiveness of your emission control system. A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emission performance. The manufacturer or re-builder of the part must certify that use of the part will not result in a failure of the engine to comply with emission regulations. Emission controls are covered by this warranty for all uses for a period of 2 years from original retail purchase date, this coverage extends to subsequent owners of the product with proof of original purchase. For emissions warranty service call 1-800-393-0668 or e-mail customerservice@gxioutdoorpower.com .