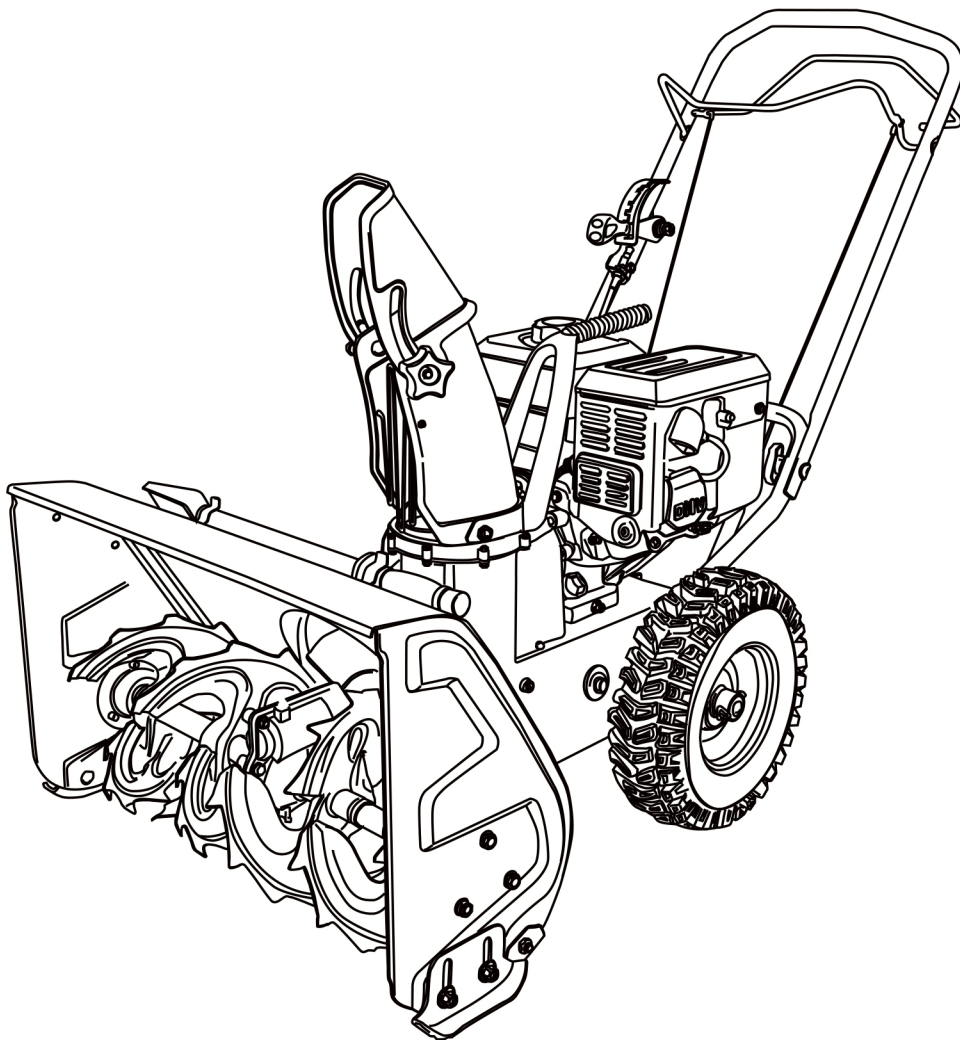




OWNER'S MANUAL **AGT1424S**

24 INCH TWO-STAGE SNOW BLOWER



FOR SERVICE CALL: 1-866-591-8921

WARNING : To reduce the risk of injury, user must read this manual before assembling, operating and maintaining this unit, You are responsible for operating the product properly & safely.

Version: V1.20170725

WARNING!

Read the following instructions before using the product!

These instructions below are for your safety. Please read through them thoroughly before use and retain them for future reference. Familiarize yourself with them to reduce hazards like personal injuries and damage to property.

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Safety Rules

Safety warnings

1. This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.
2. Children should be supervised to ensure that they do not play with the product.
3. and the proper use of the product. Know how to stop the product and disengage the controls quickly.
4. Never allow adults to operate the product without proper instruction.
5. Keep the area of operation clear of all persons, particularly small children, and pets.
6. Exercise caution to avoid slipping or falling, especially when operating in reverse.

Training

1. Read the operating and service instruction manual carefully. Be thoroughly familiar with the controls
2. Thoroughly inspect the area where the product is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.

2. Disengage all clutches and shift into neutral before starting the engine.
 3. Do not operate the product without wearing adequate winter garments. Wear footwear, which will improve footing on slippery surfaces.
 4. Handle fuel with care; it is highly flammable.
 - Use an approved fuel container.
 - Never add fuel to a running or hot engine.
 - Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - Replace fuel line caps securely and wipe up spilled fuel.
 5. Use a grounded three-wire plug-in for all units with electric drive motors or electric starting motors.
 6. Adjust the collector housing height to clear gravel or crushed rock surface.
 7. Never attempt to make any adjustments while the engine is running (except where specifically recommended by manufacturer).
 8. Let engine and product adjust to outdoor temperatures before starting to clear snow.
 9. The operation of any powered product can result in foreign objects being thrown into the eyes. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair.
- the discharge opening at all times.
 2. Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
 3. After striking a foreign object, stop the engine, remove the wire from the spark-plug, thoroughly inspect the product for any damage, and repair the damage before restarting and operating the product.
 4. If the product should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
 5. Stop the engine whenever you leave the operating position, before unclogging the collector/impeller housing or discharge guide, and when making any repairs, adjustments, or inspections.
 6. When cleaning, repairing, or inspecting, 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 accidental starting.
 7. Do not run the engine indoors, except when starting it and for moving the product in or out of the building. Open the outside doors; exhaust fumes are dangerous.
 8. Do not clear snow across the face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
 9. Never operate the product without

Operation

1. Do not put hands or feet near or under rotating parts. Keep clear of

proper guards, plates or other safety protective devices in place.

10. Never operate the product near glass enclosures, automobiles, window wells, offs, etc. without proper adjustment of the snow discharge angle. Keep children and pets away.
11. Do not overload the product capacity by attempting to clear snow at too fast a rate.
12. Never operate the product at high transport speeds on slippery surfaces. Use care when reversing.
13. Never direct discharge at bystanders or allow anyone in front of the product.
14. Disengage power to the collector/impeller when product is transported or not in use.
15. Use only attachments and accessories approved by the manufacturer of product (such as wheel weights, counterweights, cabs, etc.).
16. Never operate the product without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.
17. Do not carry passengers.
18. Never operate the product without good visibility or light.
19. Take all possible precautions when leaving the product unattended. Disengage the power take-off, lower the attachments, and shift into neutral. Set the parking brake. Stop the engine and remove the key.

Maintenance and storage

1. Check shear bolts; engine-mounted bolt, etc., at frequent intervals for proper tightness to be sure the product is in safe working condition.
2. Never store the product with fuel in the fuel tank inside a building where ignition sources are present such as hot water and space heaters, clothes dryers, etc. Allow the engine to cool before storing in any enclosure.
3. Always refer to owner's guide instructions for important details if the product is to be stored for an extended period.
4. Maintain or replace safety and instructions labels, as necessary.
5. Run the product a few minutes after throwing snow to prevent freeze-up of the collector/impeller.

Additional warnings

1. If the product starts to vibrate abnormally, check it immediately. Excessive vibration can cause injury.
2. Always ensure the product is fully assembled before using it. Never attempt to use an incomplete product or one fitted with an unauthorized modification.
3. Do not overload the product.

Fuel handling

1. Follow the maintenance and repair instructions for this product. Never carry out any modifications of the product. Never change the preset rotary speed or the engine and


- product settings. Information about maintenance and repair is provided in this user manual.
- Never carelessly touch the product, you can burn yourself. While the product is in operation or shortly thereafter, its parts such as the exhaust pipe, engine, and other surfaces are extremely hot! Pay attention to the markings on the product.
 - Make sure that the air intake of the combustion engine is clear. Keep the air intake free of dust, dirt particles, fueles and fumes.
 - Make sure that air circulation is adequate and good. The product must be easily accessible from all sides.
 - Always switch the product off and let it cool down, before refuelling it. Fuel is highly flammable. Never smoke when you are refuelling the product. Do not refuel the product, if there is an open fire in the vicinity!
 - Always use suitable aids such as funnels and filler necks. Do not spill any fuel on the product or its exhaust system. There is a risk of ignition. However, if fuel should be spilled, then you must remove it carefully from all parts of the product. Any residue which may be present must be completely removed, before the product is operated!
 - Exhaust fueles and fuel fumes are noxious. Fuel fumes can ignite. Never use the product in environments where there is a risk of explosion.
 - Never breathe in any fuel fumes, when you are refuelling the product. Never fill the tank in enclosed spaces, such as basements or sheds. There is a risk of poisoning and explosion!
 - Avoid skin contact with fuel.
 - Do not eat or drink, while you are refuelling the product. If you have swallowed fuel or oil, or if fuel or oil has got into your eyes, then seek medical advice immediately.
 - Close the tank lid immediately after filling the tank. Make sure that it is properly closed.
 - Never use the product without an air filter.
 - Do use caution when handling fuel. To avoid any accidental fires, move the product at least 3 meter (10') from the fuelling point before starting the engine.
 - If fuel is ignited, put out the fire with a dry powder fire extinguisher.

Vibration and noise reduction

To reduce the impact of noise and vibration emission, limit the time of operation, use Low-vibration and low-noise operating modes as well as wear personal protective equipment. Take the following points into account to minimize the vibration and noise exposure risks:

- Only use the product as intended by its design and these instructions.
- Ensure that the product is in good condition and well maintained.

3. Use correct accessories for the product and ensure they in good condition.
4. Keep tight grip on the handles/grip surface.
5. Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
6. Plan your work schedule to spread any high vibration tool use a longer period of time.

 **WARNING! Depending on the actual use of the product the vibration values can differ from the declared total! Adopt proper measures to protect yourself against vibration exposures. Take the whole work process including times the product is running under no load or switched off into consideration. Proper measures include among others regular maintenance and care of the product and application tools, keeping hands warm, periodical breaks and proper planning of work processes.**

Emergency

Familiarize yourself with the use of this product by means of this instruction manual. Memorize the safety directions and follow them to the letter. This will help to prevent risks and hazards.

1. Always be alert when using this product, so that you can recognize and handle risks early. Fast intervention can prevent serious injury and damage to property.
2. Stop the engine and unplug the spark plug connector if there are

malfunctions. Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.

3. In case of fire stop the engine and unplug the spark plug connector. Take fire-extinguishing measures immediately if the garden power tool switch is no longer accessible.



WARNING! Never use water to extinguish a product on fire. Burning fuel must be extinguished with special extinguishing agents! We recommend that you keep a suitable fire extinguisher within reach in your work area!

Residual risks

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:



















1. Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
2. Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.
3. Danger of injury and property damage caused by flying objects.
4. Burns, if touching hot surfaces.



WARNING! This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

Symbols

Symbol	Illustration	Symbol	Illustration
	Note		Open flames in the work area, around the product and in the vicinity of flammable materials are prohibited!
	Warning.		Do not smoke in the work area, around the product and in the vicinity of flammable materials!
	Read the instruction manual.		Do not expose the product to rain or wet conditions.
	Wear hearing protection. Wear eye protection.		Risk of fire / flammable materials
	Wear protective gloves.		Do not open or remove safety shields while engine is running.
	Wear protective, slip-resistant footwear.		
	Objects thrown by the product could hit the user or other bystanders. Always ensure that other people and pets remain at a safe distance from the product when it is in operation. In general, children must not come near the area where the product is.		When cleaning, repairing, or inspecting, make certain that all mowing parts have stopped. Disconnect the spark plug connector, and keep the connector away from the plug to prevent accidental starting.

	<p>Wait until all moving parts have come to a complete stop before touching them. Auger continues to rotate after the product is switched off.</p>		<p>Only add unleaded fuel.</p>
	<p>Do not operate this machine in house</p>		<p>Add engine oil (Oil has been drained for shipping. So engine is without oil before the first use). Oil type 5W-30.</p>
	<p>Warning! Avoid injury from rotating working tool - keep hands, feet and clothing away.</p>		<p>Primer (press 3 times)</p>
	<p>Warning! Keep hands out of inlet and discharge openings while machine is running, There are rotating blades inside</p>		<p>Choke – CLOSE position</p>
	<p>Warning! Rotating impeller, keep fingers / hand away.</p>		<p>Choke – OPEN position</p>
	<p>Do not operate on steep slopes!</p>		<p>Ignition key(if equipped) O : STOP position I : START position</p>
	<p>This product produces noxious exhaust fumes. If the product is used improperly, these fumes can lead to poisoning, a loss of consciousness or death!</p>		<p>Electric start button (if equipped)</p>
	<p>Hot surface, do not touch. High temperatures on the product's surfaces and structural parts that could cause burns, if they are touched. The product can also stay hot for a longer period of time after operation!</p>		<p>Switch the engine off while you are refilling the tanks!</p>
	<p>Drive control</p>		<p>Auger control</p>

PRODUCT SPECIFICATIONS

Model #	AGT1424S
Description	Double-stage Snowblower
Oil tank capacity	0.6L/20.3 OZ
Engine oil type	5W-30
Fuel tank capacity	2.5L/85.4 OZ
Fuel type	#92, unleaded
Engine type	4-stroke
Start mode	120V starter & Recoil start
Engine displacement	212cc
Maximum power output	4.4kW
Max. engine speed	3600rpm
Working width	24"
Max. snow height	17"
Discharge distance	0~8m
Discharge Chute Rotation	180 degree
Chute Deflector	60 degree
Wheels Diameter	13"

KNOW YOUR SNOW BLOWER

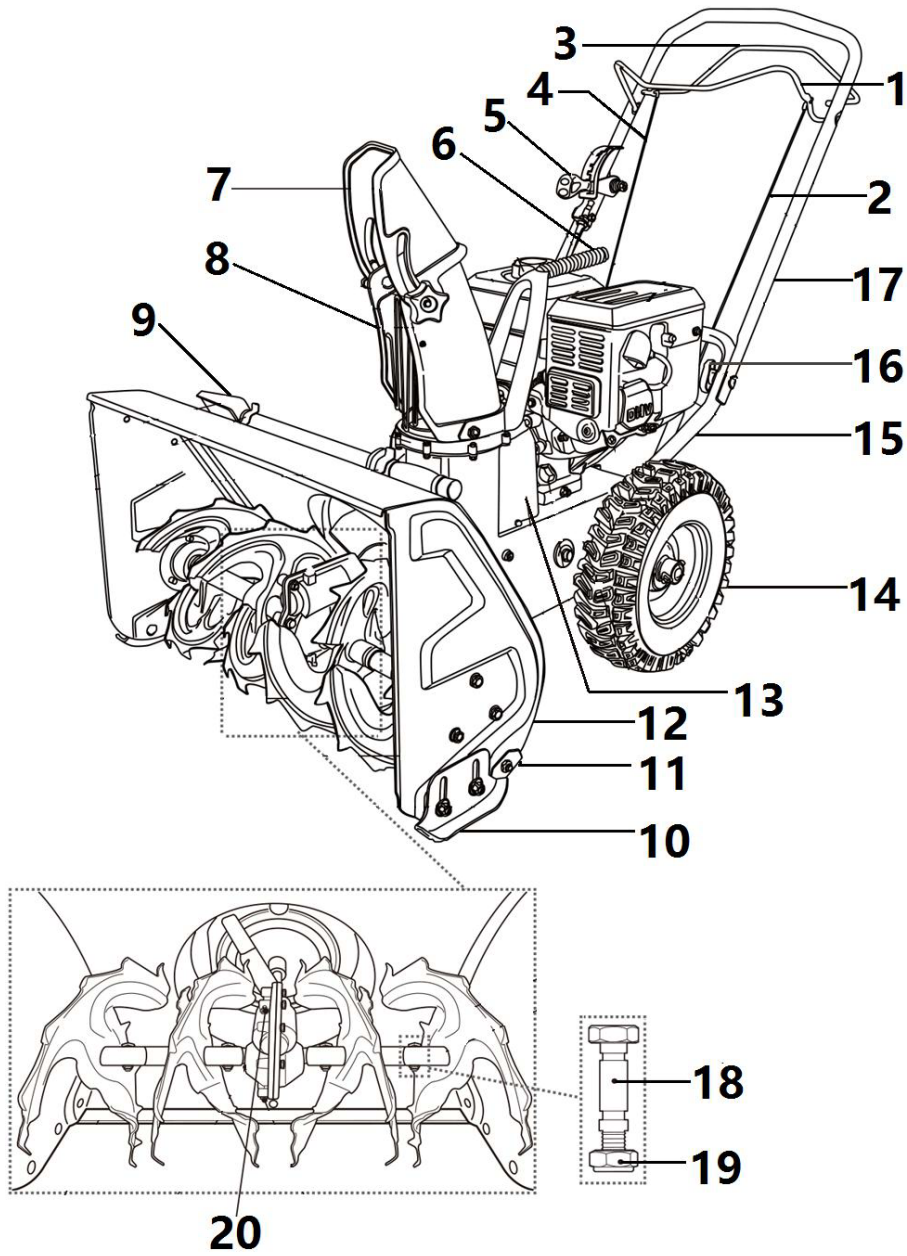


Fig. 1

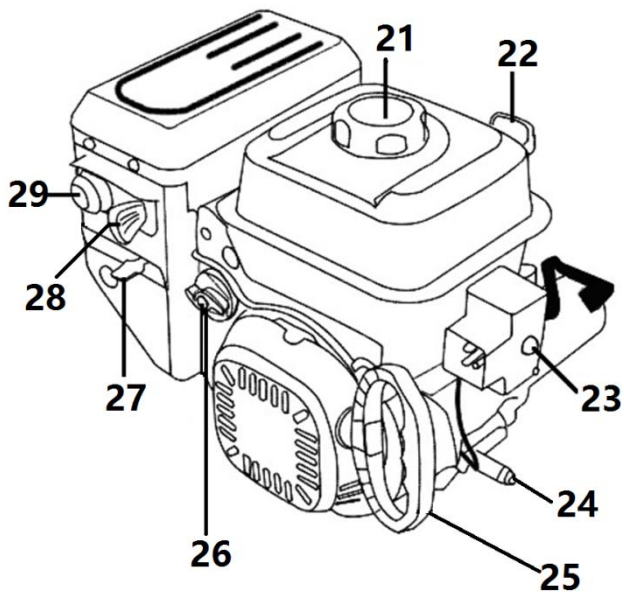


Fig. 2



Fig. 3

1	Auger control lever	16	Knob
2	Auger wire	17	Upper handle
3	Drive control lever	18	Shear pin
4	Drive wire	19	Nylon lock nut
5	Gear lever	20	Grease adding bolt
6	Chute direction lever	21	Fuel cap
7	Chute deflector	22	Oil cap with dipstick
8	Discharge chute	23	120V starter push button
9	Clean-out tool	24	Oil drain screw
10	Skid shoe	25	Recoil starter
11	Scraper	26	Fuel on/off lever
12	Auger housing	27	Choke lever
13	Belt cover	28	Ignition key
14	Snow Tire	29	Primer
15	Lower handle	30	Spark plug wrench

ASSEMBLY



NOTE: The product is heavy, ask another person for assistance if necessary.

1. Unpack all parts and lay them on a flat, stable surface.
2. Remove all packing materials and shipping devices if applicable.
3. Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage, do not use the product but contact your dealer.
4. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

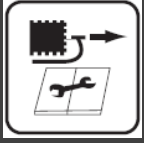
You will need

(items not supplied)

- Suitable personal protective equipment
- Fuel funnel
- Fuel
- Engine oil
- Assembly wrench



WARNING! The product must be fully assembled before operation! Do not use a product that is only partly assembled or assembled with damaged parts!

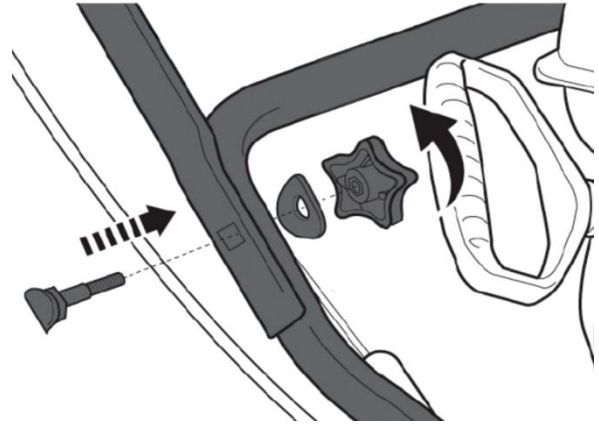


Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product.

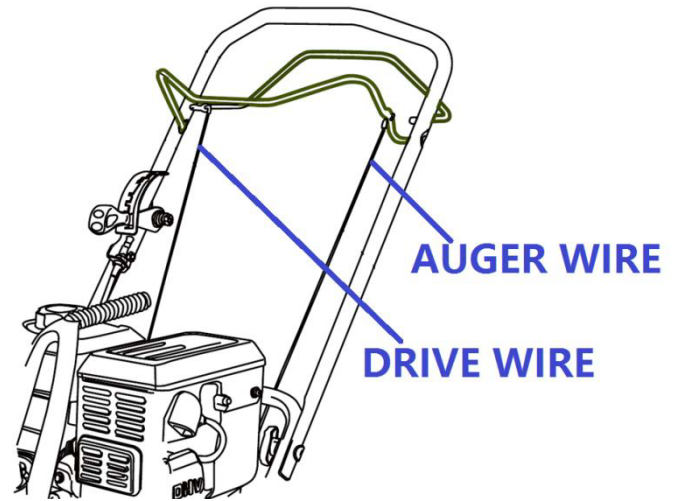
Secure **DO NOT** insert the ignition key in the hole before assembly, or remove the spark plug connector



NOTE: Take care of small parts that are removed during assembly or when making adjustments. Keep them secure to avoid loss.

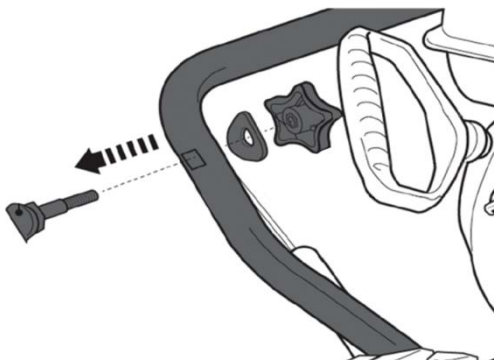


5. Ensure the auger wire and drive wire are well connected with auger control lever and drive control lever.



Handle bar

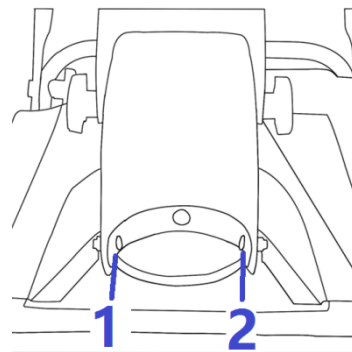
1. Check the connection of the drive wire and auger wire before assembling the upper handle bar.
2. Remove knobs with the washers and bolts from the lower handle bar.



4. Align the holes on the upper handle bar with those on the lower handle bar.
5. Secure the connection with the knobs, bolts, washers.

Discharge chute

1. Remove the pre-assembled bolts and nuts from the discharge chute.
2. Place the discharge chute onto the chute seat.
3. Firstly lead the bolts (1, 2) through the 2-side holes of the discharge chute and chute direction lever. Then, fasten the nuts. Do not fasten fully.



4. Secondly, lead the bolt through the middle hole. Fasten all nuts with wrench to secure the discharge chute assembly.

Engine oil and fuel

This product is equipped with a 4-stroke engine. Before operation you have to add proper engine oil and fuel.

1. Place the product on a stable, level surface. We recommend laying a nonflammable sheet underneath.
2. Use proper funnels. Avoid splitting and overfilling the tanks.



WARNING! Ensure that there are no naked flames around the product! Do not smoke while filling fuel and oil!

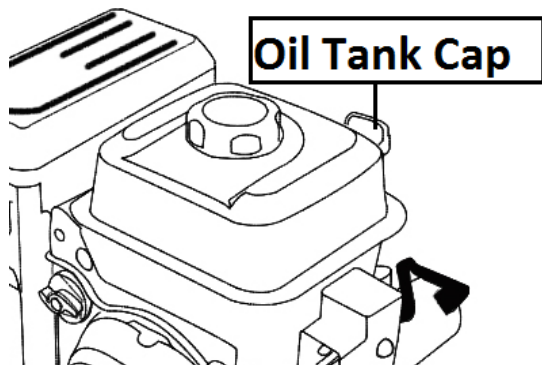
3. Always dispose fuel, used oil and objects contaminated with them in accordance with local regulations.

Engine oil



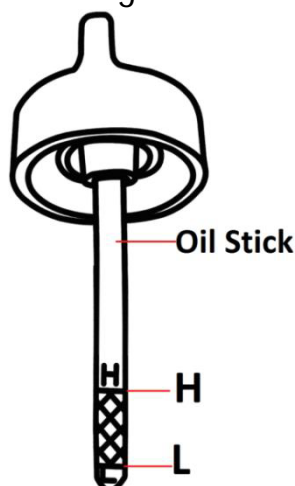
WARNING! This product is not supplied with oil. However, for manufacturing reasons it is possible that a small quantity may be in the engine! Before operating this product it is essential to fill it with proper oil (see “product specifications”)!

1. Unscrew and take out the oil tank cap.



2. Gradually add good-quality engine oil (5W-30). Allow the oil to settle.
3. Check the oil level frequently while filling. Wipe the oil dipstick clean; refit and tighten the oil tank cap and then

remove it again. The oil level must be between the “H (High)” and “L (Low)” markings. **Do not overfill.**



4. Wipe spilled oil with a soft cloth and screw up the oil tank cap.

Fuel




WARNING! This product is not supplied with fuel! Before operating this product it is essential to fill it with fuel!

1. Always use clean, fresh unleaded fuel. Purchase fuel in quantities that can be used within 30 days.
2. Never mix oil with fuel. Avoid getting dirt, dust or water in the fuel tank.
3. Unscrew the fuel tank cap.
4. Wipe any spilled fuel with a soft cloth and screw the fuel tank cap.











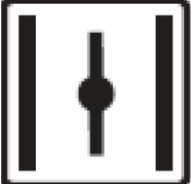

NOTE: Fuel deteriorates over time. It may be DIFFICULT to start the engine if you use fuel which has been kept for more than 30 days. Towards the end of the season, it is advisable to put only as much fuel in the tank as you need for each use, since it should be completely used up before storing the product. Empty remaining fuel from the tank and the CARBURETTOR when storing the product for over 30 days.

Operation

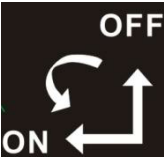







 **WARNING!** Do not use a product that is only partly assembled or assembled with damaged parts!

Cold Start (low environment temperature -20°C)




If it has never started before your start or the engine stops for a while (more than 20min) after your start, follow below steps.

1	2	3
 <p>Rotate fuel lever to "ON"</p>	 <p>Set choke to the CLOSE</p>	 <p>Insert the ignition key fully. Do not rotate it.</p>
4	5	
 <p>Press primer 3 times</p>	 <p>Pull recoil starter handle.</p>	 <p>WARNING! Allow the cable to return slowly and in a controlled manner each time it is pulled.</p>
6	7	
 <p>Electric start: ①connect extension cord to start and plug extension into 120V 3-wire, grounded outlet ②press starter button on engine until engine starts ③remove the connect extension cord from the grounded outlet.</p> <p>NOTE: DO NOT operate starter more than 15 seconds per minute, as overheating and damage can occur. (If engine does not start, refer to TROUBLESHOOTING)</p>	 <p>Run idle for 20-30 seconds</p>	
8	9	
 <p>Move gradually the choke to OPEN position</p> <p>NOTE: When moving the choke to the OPEN position and the engine speed gets inconsistent. Then move the choke to the middle position to allow additional time for warming up. After warm up, move the choke to the OPEN position</p>	 <p>Operate</p>	

Warm Start

<p>1</p>  <p>Rotate fuel lever to "ON"</p>	<p>2</p>  <p>Set choke to the OPEN</p>	<p>3</p>  <p>Insert the ignition key fully. Do not rotate it.</p>
<p>5</p>  <p>Pull recoil starter handle</p>	<p>6</p>  <p>Electric start: ① connect extension cord to start and plug extension into 120V 3-wire, grounded outlet.</p> <p>② press starter button on engine until engine starts ③ remove the connect extension cord from the grounded outlet</p> <p>NOTE: DO NOT operate starter more than 15 seconds per minute, as overheating and damage can occur. (If engine does not start, refer to TROUBLESHOOTING.)</p>	
 <p>WARNING! Allow the cable to return slowly and in a controlled manner each time it is pulled.</p>		<p>7</p>  <p>Run idle for 20-30 seconds</p> <p>8</p>  <p>Operate</p>

Stopping

<p>1</p>  <p>Release auger and drive control lever</p>	<p>2</p>  <p>Run idle for 20-30 seconds</p>	<p>3</p>  <p>Pull out ignition key fully.</p>
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Intended use

This product is intended for clearing garden paths, yards and private

approach lanes from snow in domestic areas. The product may not be used on

high plateaus like roof gardens. For safety reasons it is essential to read the entire instruction manual before first operation and to observe all the instructions therein.

This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described.

Adjust discharge direction

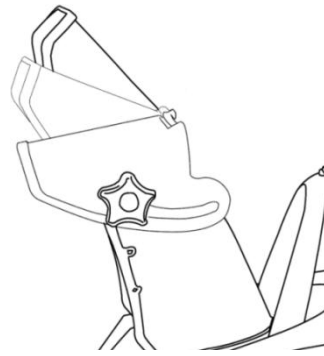
Adjust the discharge direction in vertical and horizontal position before each use. The proper direction depends among others on the snow condition and working area.

If the deflector is in a lower position the snow is thrown in a short distance; if the deflector is in an upper position the snow is thrown farther.



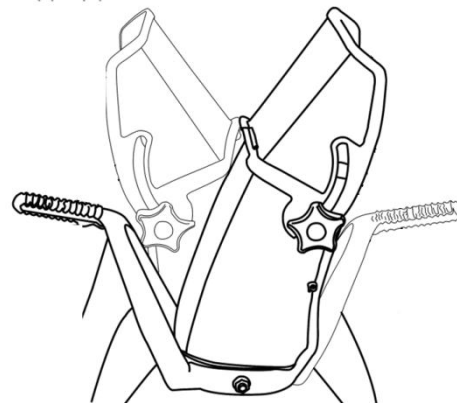
WARNING! Never direct the chute deflector at the operator, at bystanders, at vehicles or at nearby windows! The discharged snow and foreign objects accidentally picked up by the product can cause serious damage and personal injury! Always orient the discharge chute in the opposite direction from where you, bystanders, surrounding vehicles, or windows are located!

1. Adjust the chute deflector in proper angle, and hold the knob outside to finish the angle adjustment.



2. Retighten the knobs.

3. The discharge chute can be adjusted approx. 180 degrees by rotating the crank. Rotate the chute in proper direction by crank.



Auger control lever

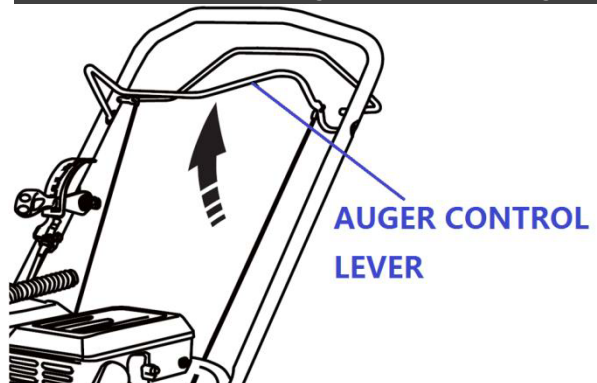
Squeeze the lever to engage the auger. Release the lever to stop the snow throwing action.



NOTE: Also refer to auger control test prior to operating this product.



WARNING! Be careful when squeezing the control lever – Danger of crushing hand.



Auger control test



NOTE: Perform the following test before operating your

product for the first time and the start of each winter season.

When the auger control lever is released and in the disengaged upper position, the auger wire should have very little slack. It should not be tight.

1. Stand behind the product.
2. Engage the auger and allow the auger to remain engaged for approx. 10 seconds.
3. Release the auger control lever.
4. Repeat the step 2 and 3 for several times.
5. Make sure that the auger has completely stopped when releasing the lever.

Drive control lever

Squeeze the lever to engage the wheel drive. Release it to stop.



Gear lever

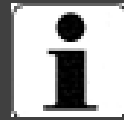
The gear lever is located in the right side and is used to determine both ground speed and direction. It can be moved to any of 6 positions (4 forward speeds, 2 reverse speeds).



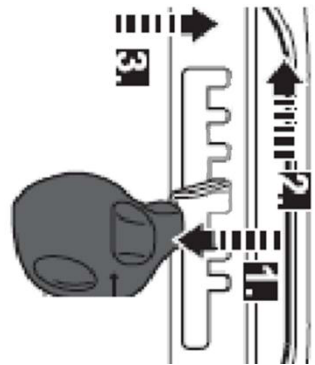
WARNING! Always release the drive and auger control lever and wait until rotating parts come to a full stop before changing the gear!
When starting the product, always use a lower gear position first!

Forward speeds

Press the gear lever downwards and set it to one of the four positions to the left and set it upward to operate the product in forward mode (1 = slow, 4 = fast). Choose a slower speed for heavier snow and faster speed for light snow and transporting the product.



NOTE: We recommend using a slower speed until you are familiar with the operation of the product.



Reverse speeds

Press the gear lever downwards and set it to one of the two positions to the right to operate the product in reverse mode (R1 = slow, R2 = fast).



WARNING! Be extremely careful when moving backwards! Pay attention to your steps! Ensure that you do not step on obstacles!


Carburettor

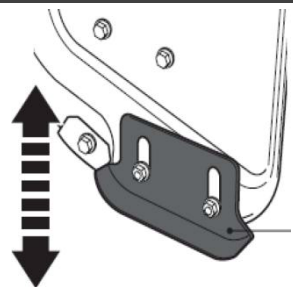
If the auger fails to operate at operational speed the carburettor may need to be adjusted. Please contact an authorized service centre or similar qualified specialist.

Skid shoe

The space between the scraper and the ground can be adjusted by positioning the skid shoes.

1. Slightly loosen the nuts and adjust the skid shoes in required position.
2. Fix the skid shoes in a lower or middle position for close snow removal on a smooth surface.
3. Fix the skid shoes in an upper position when the area to be cleared is uneven.

 **NOTE:** Always adjust both skid shoes in the same position!



General operation

1. Check the product as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear.
2. Double check that accessories are properly fixed.
3. Check the engine oil level, refill if necessary.
4. Keep the levers and handles dry and clean to ensure safe support.
5. Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air

vents may lead to overheating and damage the product.

6. Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to complete stop before putting it down.
7. Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.



WARNING! In some countries regulations define at what time of the day and on what special days products are allowed to be used and what restrictions apply! Ask your community for detailed information and observe the regulations in order to preserve a peaceful neighborhood and avoid committing administrative offences!

Clearing snow



WARNING! Foreign objects, such as rocks, broken glass, nails, wire, or string, can be picked up and thrown by the product, causing damage and serious personal injury! Ensure that no hidden objects are covered by the snow! Remove all foreign objects from the area to be cleared before operating the product!

1. Keep the area of operation free of foreign objects that can become thrown by the auger. Perform a thorough inspection of the area since some objects may be hidden from view by surrounding snow. If the product hits an obstruction or picks up a foreign object during use, stop the product, switch off, remove the obstruction, and inspect the

product for damage. Repair or replace any damaged part before restarting and operating the product.

2. Keep children, pets, and bystanders away from the area of operation. Be aware that the normal noise of the product when turned on may make it difficult for you to hear approaching people.

3. Pay attention to the wind direction. If possible, move in the same direction as the wind so that the snow is not thrown against the wind (and thus back into your face and on the just cleared path).

4. Do not push the product with excessive force. You should push the product gently and evenly in accordance with the products throw rate.

5. Some parts of the product may freeze under extreme temperature conditions. Do not attempt to operate the product with frozen parts. If the parts freeze while the product is in use, stop the product, switch off and disconnect from the power supply, and inspect for frozen parts. Free all parts before restarting or operating the product. Never force controls that are frozen.

Turns

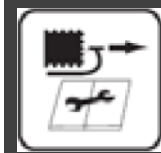
Use the forward and reverse gears respective to turn the product.

After use

1. Switch the product off as described above, disconnect the spark plug connector and let it cool down.
2. Check, clean and store the product as described below.

Maintenance

The golden rules for care



WARNING! Always switch the product off, disconnect the spark plug connector and let the product cool down before performing inspection, maintenance and cleaning work!

1. Keep the product clean. Remove debris from it after each use and before storage.
2. Regular and proper cleaning will help ensure safe use and prolong the life of the product.
3. Inspect the product before each use for worn and damaged parts. Do not operate it if you find broken and worn parts.



WARNING! Only perform repairs and maintenance work according to these instructions! All further works must be performed by a qualified specialist!

General cleaning

1. Clean the product with a damp cloth. Use a brush for areas that are hard to reach.
2. In particular clean the air vents after every use with a cloth and brush.
3. Remove stubborn dirt with high pressure air (max. 3 bar).



NOTE: Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

4. Check for any damage and wear.

Maintenance Table

Part	To do	Before/after each use	5 hours	25 hours	50 hours / half year	100 hours / once a year
Engine Oil	Check	X				
Engine Oil	Change					X
Spark plug	Check			X		
Spark plug	Clean					X
Spark plug	Replace	whenever necessary				
Valve play	Adjust	whenever necessary				
Exhaust area	Clean		X			

Removing blockages



WARNING! Wear protective gloves when removing blockages! Use proper tools to remove debris, e. g. a wooden stick! Never use your bare hands!



Warning! Rotating working tool, keep hands away! Do not insert your hands into the discharge chute.

1. Check the discharge chute for blockages and use the clean-out tool to remove any.
2. Check the auger and remove possible clogging with the shovel, brush or blunt tool. Check to make sure the auger is in an undamaged condition. Contact an authorized service centre if parts are damaged and a replacement is necessary.

Auger



WARNING! Wear protective gloves when working on the auger to avoid injuries!



WARNING! Wait until all moving parts have come to a complete stop before touching them. Auger continues to rotate after the product is switched off.



1. Remove snow from the auger after use using a proper brush or tool.
2. Check for any damage and wear. Have the auger replaced by a qualified specialist if it is bent, damaged or worn. Otherwise the performance and safety of the product cannot be guaranteed.

Auger shaft

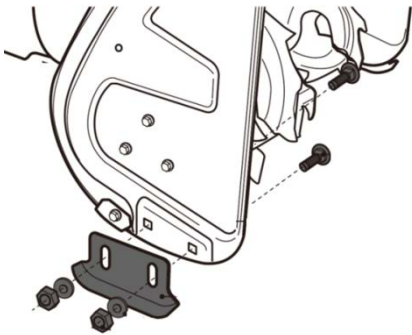
Remove the shear pins and nuts on the auger shaft. Spray lubricant inside the shaft and lubricate the auger bearings at least once a season.

1. Unscrew the lubricating grease drain bolt underneath the gear box.
2. Add freezing lubricating grease through opening of the grease adding bolt with an oil gun (not provided).
3. When the grease comes out of the place of the drain hole underneath the gear box, clean and dry the place and tighten the oil drain bolt.
5. Clean and dry the place of grease adding bolt.
5. Do this operation at least once a year.

Skid shoe

Replace worn skid shoes always in a pair.

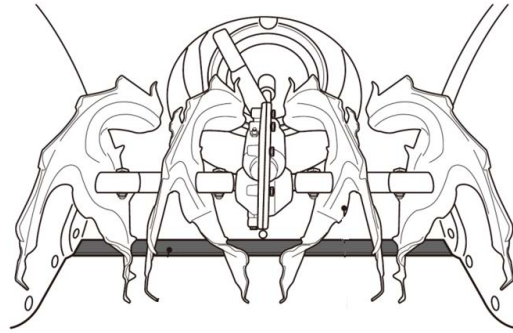
1. Loosen the nuts and remove them together with the bolts, washers and skid shoes on both upper sides of the guard.
2. Secure new skid shoes to the guard. Ensure the scraper plate is correctly aligned to the hole in the guard.
3. Secure the skid shoes with the bolts, washers and nuts in reverse order.



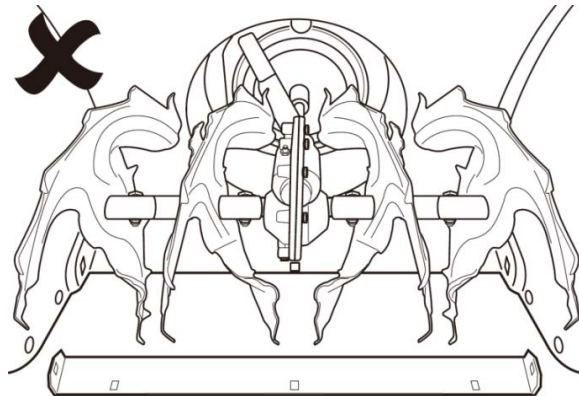
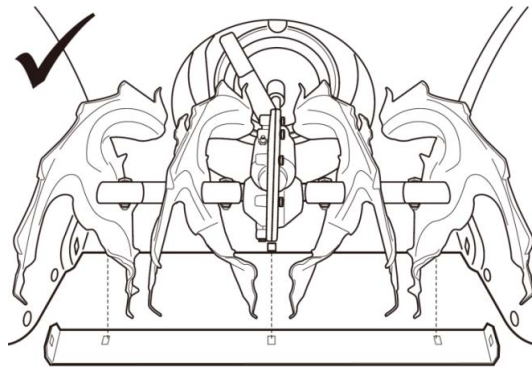
Scraper

1. The scraper is located at the base of the product beneath the guard.
2. Detach and remove the worn scraper

from the product by removing the bolts, washers and nuts that hold it in place.

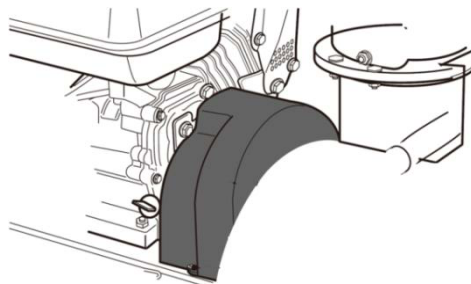


3. Install the new scraper and fasten it securely to the guard with the bolts, washers and nuts in reverse order.



Belt

1. Loosen the bolts on both sides of the belt case and remove them together with the case.



2. Check the belts for any damage and wear. Have them replaced if they are damaged or worn. Otherwise the

performance and safety of the product cannot be guaranteed.

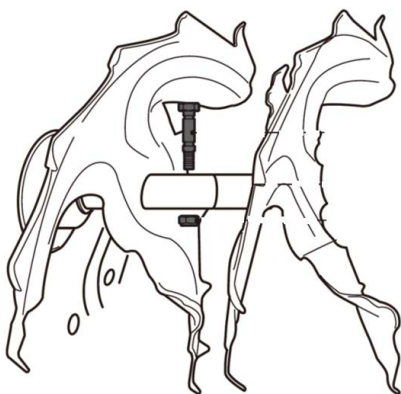
3. Attach and secure the belt case with the bolts.

Shear pin

A clog or jam in the auger may cause one or both of the shear pins to break. This is a safety mechanism to protect other parts of the product against overload and damage.

Replace a broken shear pin with one of the same type if required.

1. Unscrew the nut from the broken shear pin and remove them from the auger shaft.
2. Place a new shear pin through the hole in the auger shaft and tighten it with the nut.



Wheels

1. Check the wheels for pressure before every operation. Pump up the wheels with a proper tire pump if necessary. Observe the max. allowed pressure marked on the wheels.
2. If the wheels are damaged or worn replace them with a new one of the same type.

Engine oil

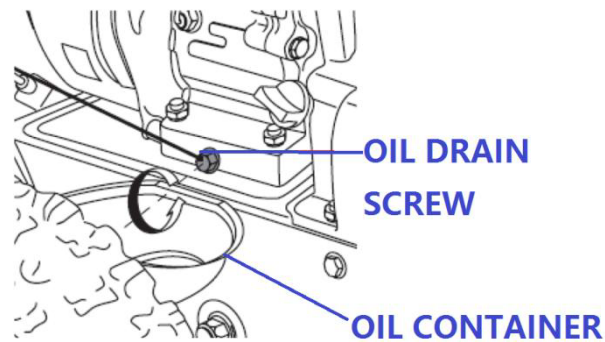


NOTE: Check the oil level and quality before each use and after every five hours of

operation to be sure correct oil level is maintained.

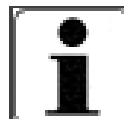
The oil should be clear and thick. If the oil is sticky or contains dirt particles the oil must be changed.

1. Place a suitable container under oil drain screw to collect drained oil.
2. Unscrew the oil drain screw and let the oil run into the container.



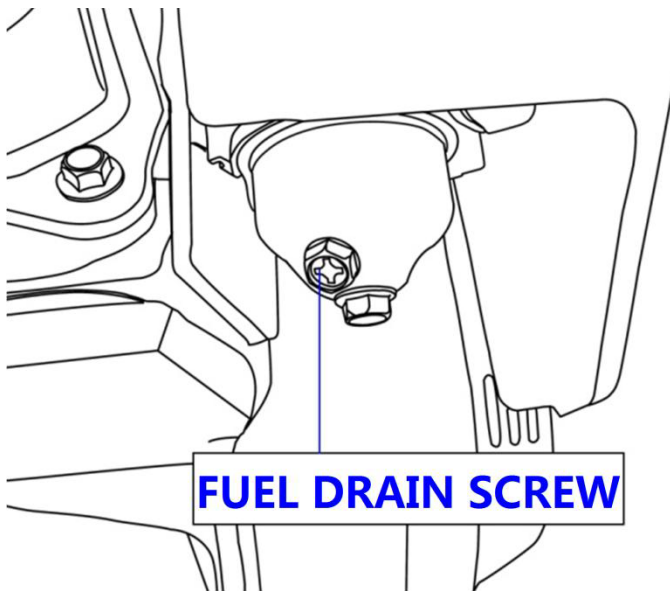
3. Screw the oil drain screw back in.
4. Wipe spilled oil up.
5. Refill the oil tank as described inspection "Engine oil and fuel– Engine oil".

Fuel



NOTE: Fuel deteriorates over time. Engine starting may be difficult if you use fuel kept for more than 30 days. Do not reuse any fuel that has been removed. Always empty the fuel tank when storing over 30 days.

1. Switch off the fuel lever. Empty the fuel in tank and carburettor when storing the product over 30 days to avoid deterioration of the fuel.
2. Place a suitable container under fuel drain screw of the carburettor to collect drained fuel
3. Unscrew the fuel drain screw, move the fuel lever to its open position and let the fuel run into the container.



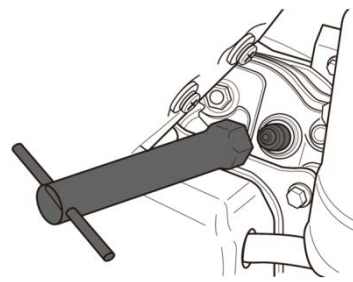
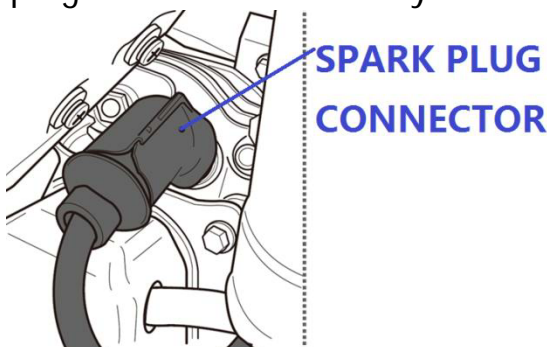
Screw the fuel drain screw back in.

5. Wipe spilled fuel up.
6. Before re-use refill the fuel tank as described in to section "Engine oil and fuel- Fuel."

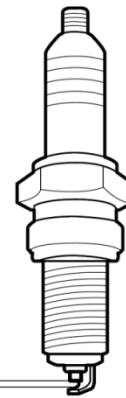
i NOTE: Towards the end of the season, it is advisable to put only as much fuel in the tank as you need for each cut, since it should be completely used up before storing the product.

Spark plug

1. Inspect the spark plug every 25 hours or prior to long-term storage over 30 days if the use has not been this high. Clean or replace with a new spark plug if necessary.
2. Unplug the spark plug connector.
3. Loosen the spark plug with the spark plug wrench and carefully remove it.



4. The color of the electrode should be light-brown colored.
5. Remove debris from the electrode with a soft wired brush; avoid heavy cleaning of the electrode.
6. Dry the spark plug with a soft cloth if it is wet from fuel.
7. Check the spark plug gap. It should be 0.6 – 0.7 mm.



8. Replace with a new spark plug if either the electrode or the insulation is damaged.
9. When replacing the spark plug, first screw it in hand tight and then lightly tighten it with the spark plug wrench.

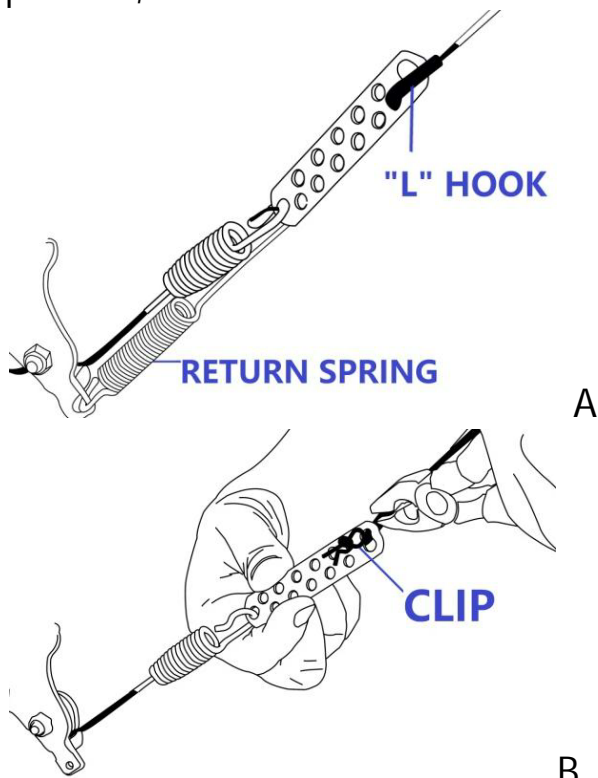
i WARNING! Do not over tighten the spark plug to avoid any damage!

Auger and Drive wire adjustment

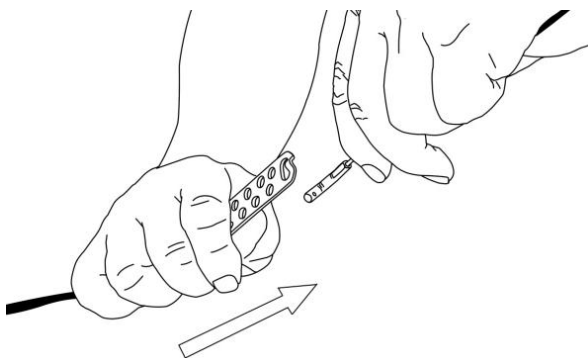
When the auger and drive control lever is released, the auger and drive should have very little slack. If it's found that they are tight or loose, it's necessary to adjust them as follows:

1. Slide the cable boot off the wire

adjustment bracket. Remove the return spring. Take off the clip and washer by a pliers. Then, remove "L" hook from the cable adjustment bracket. See below photo A,B.



2. Lower hand holds the adjustment bracket and lift it up. Upper hand moves the "L" hook to the next adjustment hole.



3. Replace the clip and washer. Put the cable boot over the cable adjustment bracket.

4. To check the adjustment, start the snow thrower.

4.1 Make sure the auger does not rotate when the auger drive lever is released.

4.2 Make sure the machine does not move forward or backward automatically.

5. Release control levers. The wire gets slightly slacked. When the lever is released, the wire must be neither slacked nor tensed. If you find some play, it is necessary to adjust and tense the wire. When the wire is correctly tensed the lever must touch the handle when pushed. In different case is necessary to adjust the wire.

Carburettor

The carburettor is pre-adjusted by the manufacturer. Should it be necessary to make any changes please contact an authorized service centre or similar qualified specialist. Do not attempt to make adjustments by yourself.

Storage

1. Clean the product as described above.
2. Store the product and its accessories in a dry, frost-free place.
3. Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 10 and 30°C.
4. We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.
5. If you are not going to use the product for an extended period of time (more than 30 days) and before storing it for the winter, empty the fuel in tank and carburettor and oil tank.

Transportation

1. Switch the product off and secure do

- not insert the ignition key in the hole
2. Drain out the oil. Otherwise, the oil could come into the piston during transportation, engine cannot start.
 3. Switch off the fuel.
 4. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.

- before assembly before transporting it anywhere.
5. Do not try to carry the product alone! Only transport it pushing forward. If it is necessary to lift the product ask another person for help.
6. Secure the product to prevent it from slipping or falling over.

Troubleshooting

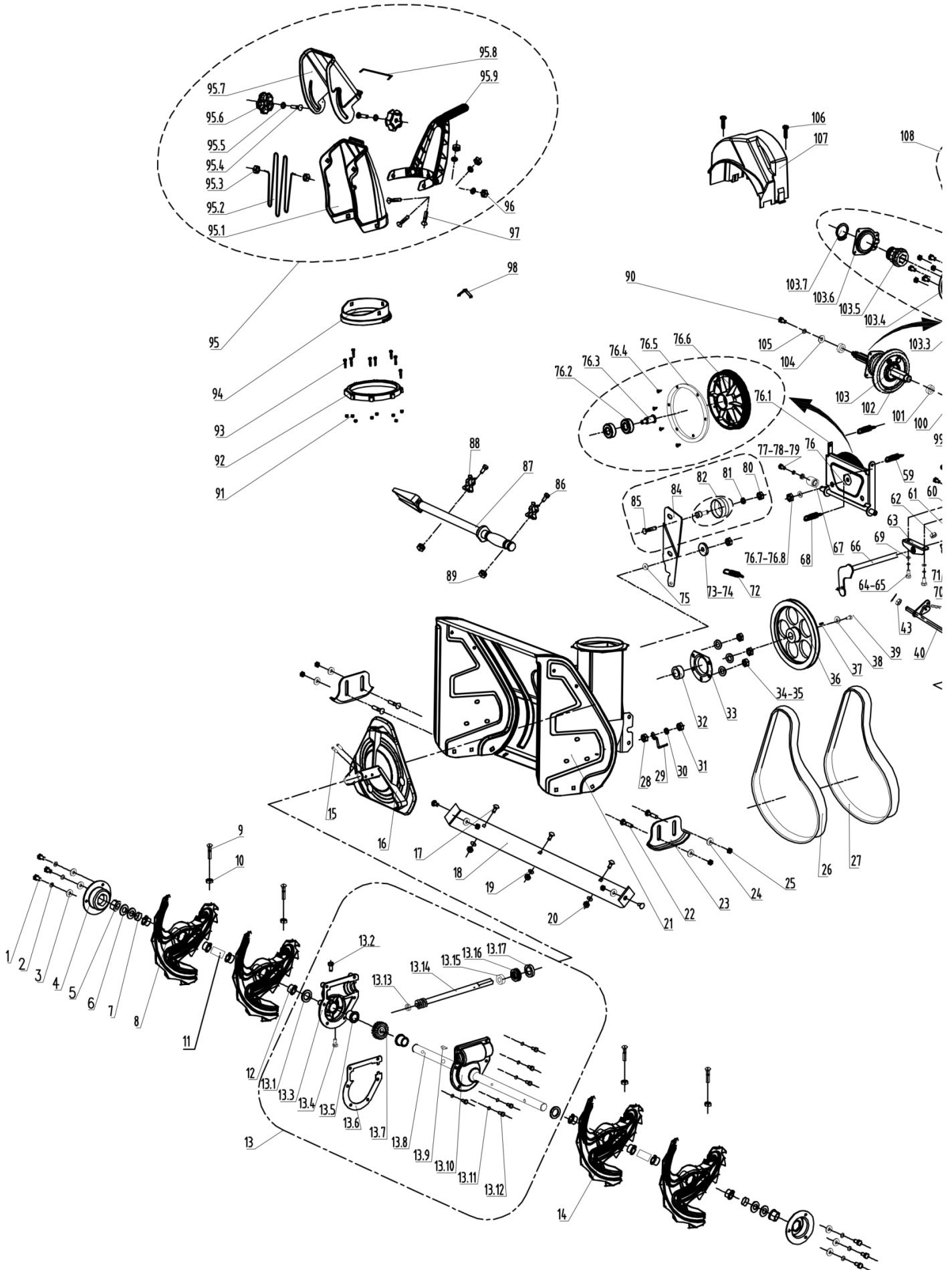
Suspected malfunctions are often due to causes that the users can fix themselves. Therefore check the product using this section. In most cases the problem can be solved quickly.

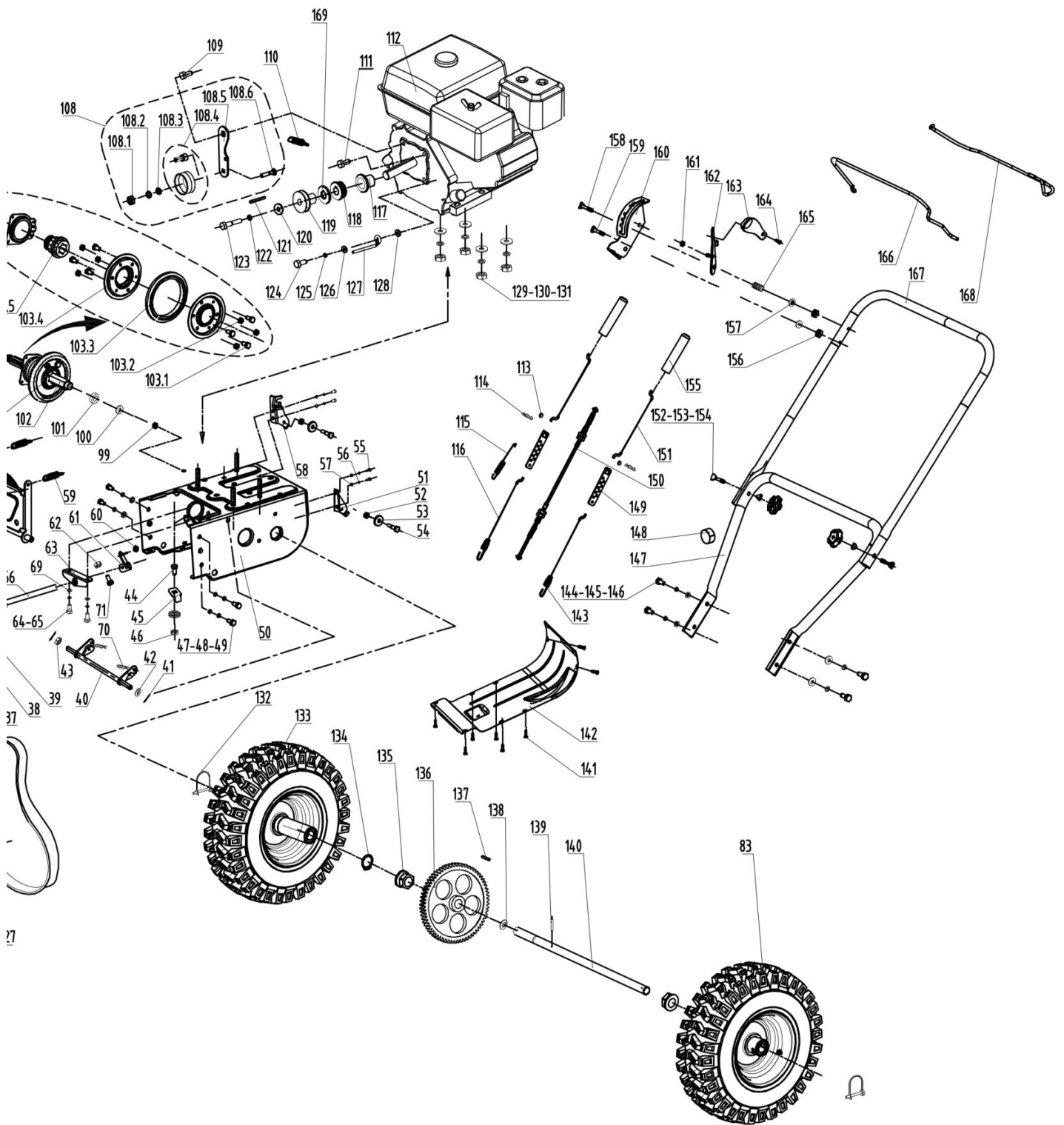


WARNING! Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorized service centre or a similarly qualified person if you cannot solve the problem yourself!

Problem	Possible cause	Solution
1. Engine does not start	1.1. Not enough fuel in fuel	1.1. Add fuel
	1.2. Primer has not been	1.2. Press the primer and
	1.3. Primer has been	1.3. Dry spark plug
	1.4. Spark plug is wet	1.4. Dry spark plug
	1.5. Spark plug is damaged	1.5. Replace spark plug
2. Engine stops	2.1. Not enough fuel in fuel	2.1. Add fuel
	2.2. Auger is blocked	2.2. Remove blockage
3. Unsatisfactory result	3.1. Auger damaged, worn	3.1. Have it replaced
	3.2. Impeller blocked	3.2. Remove the blockage
	3.3. Auger/chute blocked	3.3. Remove the blockage
	3.4. Shear pin broken	3.4. Replace it
4. Excessive vibration/noise or exhaust	4.1. Auger is damaged	4.1. Have it replaced
	4.2. Auger is blocked	4.2. Remove blockage
	4.3. Screws/nuts are loose	4.3. Tighten the screws/
	4.4. Fuel is incorrect or the	4.4. Empty out unused fuel

EXPLODED VIEW





PART LIST

Refe#	Description	Qty/pc	Stock#
1	Bolt	6	AGT1424S-1
2	Spring Washer	6	AGT1424S-2
3	Flat Washer	6	AGT1424S-3
4	Bearing Housing	2	AGT1424S-4
5	Flange Bearing	2	AGT1424S-5
6	Flat Washer	4	AGT1424S-6
7	Casing Pipe 2	2	AGT1424S-7
8	Spiral Ass. Rh	2	AGT1424S-8
9	Shear Pin	4	AGT1424S-9
10	Metal Nut	4	AGT1424S-10
11	Casing Pipe 1	2	AGT1424S-11
12	Flange Bushing	8	AGT1424S-12
13	Gear Case Ass.	1	AGT1424S-13
13.1	Reinforced Seal	2	AGT1424S-13.1
13.2	Oil Cup	1	AGT1424S-13.2
13.3	Housing RH	1	AGT1424S-13.3
13.4	Bolt	1	AGT1424S-13.4
13.5	Shaft Sleeve	2	AGT1424S-13.5
13.6	Fuelket	1	AGT1424S-13.6
13.7	Worm Gear	1	AGT1424S-13.7
13.8	Auger Axle	1	AGT1424S-13.8
13.9	Semicircular Key	1	AGT1424S-13.9
13.10	Housing LH	1	AGT1424S-13.10
13.11	Spring Washer	6	AGT1424S-13.11
13.12	Hex Bolt	6	AGT1424S-13.12
13.13	Ball Bearing	1	AGT1424S-13.13
13.14	Worm	1	AGT1424S-13.14
13.15	Ball Bearing	1	AGT1424S-13.15
13.16	Bearing	1	AGT1424S-13.16
13.17	Seal	1	AGT1424S-13.17
14	Spiral Ass. L	2	AGT1424S-14
15	Pin	2	AGT1424S-15
16	Impeller Ass.	1	AGT1424S-16
17	Bolt	5	AGT1424S-17

18	Shave Plate	1	AGT1424S-18
19	Plain Washer	5	AGT1424S-19
20	Metal Nut	5	AGT1424S-20
21	Auger Housing	1	AGT1424S-21
22	Bolt	4	AGT1424S-22
23	Skid Shoe	2	AGT1424S-23
24	Plain Washer	4	AGT1424S-24
25	Metal Nut	4	AGT1424S-25
26	Vee Belt	1	AGT1424S-26
27	Belt	1	AGT1424S-27
28	Plain Nut	1	AGT1424S-28
29	Belt Rod	1	AGT1424S-29
30	Flat Washer	1	AGT1424S-30
31	Metal Nut	1	AGT1424S-31
32	Ball Bearing	1	AGT1424S-32
33	Clamp Plate	1	AGT1424S-33
34	Metal Nut	3	AGT1424S-34
35	Flat Washer	3	AGT1424S-35
36	Auger Pulley	1	AGT1424S-36
37	Flat Key	1	AGT1424S-37
38	Flat Washer	1	AGT1424S-38
39	Bolt	1	AGT1424S-39
40	Rubber Base	1	AGT1424S-40
41	Cotter Pin	2	AGT1424S-41
42	Flat Washer	1	AGT1424S-42
43	Flap Fuelket	1	AGT1424S-43
44	Steps Bolt	1	AGT1424S-44
45	Wheel Plate	1	AGT1424S-45
46	Metal Nut	1	AGT1424S-46
47	Spring Washer	4	AGT1424S-47
48	Bolt	4	AGT1424S-48
49	Flat Washer	4	AGT1424S-49
50	Frame Ass.	1	AGT1424S-50
51	Cable Bracket	1	AGT1424S-51
52	Metal Nut	2	AGT1424S-52
53	Roller	3	AGT1424S-53
54	Steps Bolt	2	AGT1424S-54

55	Bolt	4	AGT1424S-55
56	Spring Washer	4	AGT1424S-56
57	Flap Fuelket	4	AGT1424S-57
58	Cable Bracket	1	AGT1424S-58
59	Spring	2	AGT1424S-59
60	Nut	1	AGT1424S-60
61	Retainer	1	AGT1424S-61
62	Nut	1	AGT1424S-62
63	Shift Fork Bracket	1	AGT1424S-63
64	Spring Washer	2	AGT1424S-64
65	Bolt	2	AGT1424S-65
66	Shift Fork	1	AGT1424S-66
67	Sleeve	1	AGT1424S-67
68	Spring	1	AGT1424S-68
69	Flap Fuelket	2	AGT1424S-69
70	Pin	2	AGT1424S-70
71	Screw	1	AGT1424S-71
72	Spring	1	AGT1424S-72
73	Metal Nut	1	AGT1424S-73
74	Washer	1	AGT1424S-74
75	Flap Fuelket	1	AGT1424S-75
76	Friction Disc Ass.	1	AGT1424S-76
76.1	Wheel Support	1	AGT1424S-76.1
76.2	Ball Bearing	2	AGT1424S-76.2
76.3	Axle	1	AGT1424S-76.3
76.4	Screw	6	AGT1424S-76.4
76.5	Pulley	1	AGT1424S-76.5
76.6	Friction Disc	1	AGT1424S-76.6
76.7	Flap Fuelket	1	AGT1424S-76.7
76.8	Locknut	1	AGT1424S-76.8
77	Flap Fuelket	1	AGT1424S-77
78	Spring Washer	1	AGT1424S-78
79	Screw	1	AGT1424S-79
80	Metal Nut	1	AGT1424S-80
81	Flap Fuelket	1	AGT1424S-81
82	Flat Idler	1	AGT1424S-82
83	Tire LH	1	AGT1424S-83

84	Auger Idler Arm	1	AGT1424S-84
85	Bolt	1	AGT1424S-85
86	Bolt	2	AGT1424S-86
87	Clear-Out Tool	1	AGT1424S-87
88	Tool Mount	2	AGT1424S-88
89	Metal Nut	2	AGT1424S-89
90	Flap Fuelket	1	AGT1424S-90
91	Metal Nut	8	AGT1424S-91
92	Spinning Disk	1	AGT1424S-92
93	Screw	8	AGT1424S-93
94	Swivel Piece	1	AGT1424S-94
95	Middle Chute Ass.	1	AGT1424S-95
95.1	Middle Chute	1	AGT1424S-95.1
95.2	Safety Shelf	1	AGT1424S-95.2
95.3	Nut	2	AGT1424S-95.3
95.4	Bolt	2	AGT1424S-95.4
95.5	Flap Fuelket	5	AGT1424S-95.5
95.6	Knob	2	AGT1424S-95.6
95.7	Deflector	1	AGT1424S-95.7
95.8	Coupling Pin	1	AGT1424S-95.8
95.9	Rotation Handle	1	AGT1424S-95.9
96	Nut	3	AGT1424S-96
97	Bolt	3	AGT1424S-97
98	Locking Piece	1	AGT1424S-98
99	Metal Nut	1	AGT1424S-99
100	Flat Washer	1	AGT1424S-100
101	Ball Bearing	2	AGT1424S-101
102	Wheel Hub	1	AGT1424S-102
103	Rubber Ring Ass.	1	AGT1424S-103
103.1	Bolt	6	AGT1424S-103.1
103.2	Metal Nut	6	AGT1424S-103.2
103.3	Rubber Ring	1	AGT1424S-103.3
103.4	Ring Retainer	2	AGT1424S-103.4
103.5	Wheel Hub	1	AGT1424S-103.5
103.6	Shifting Fork	1	AGT1424S-103.6
103.7	Circlip	1	AGT1424S-103.7
104	Flap Fuelket	1	AGT1424S-104

105	Spring Washer	1	AGT1424S-105
106	Screw	2	AGT1424S-106
107	Belt Cover	1	AGT1424S-107
108	Idler Arm Ass.	1	AGT1424S-108
108.1	Metal Nut	1	AGT1424S-108.1
108.2	Spring Washer	1	AGT1424S-108.2
108.3	Flap Fuelket	1	AGT1424S-108.3
108.4	Flat Idler	1	AGT1424S-108.4
108.5	Flat Idler Arm	1	AGT1424S-108.5
108.6	Bolt	1	AGT1424S-108.6
109	Bolt	1	AGT1424S-109
110	Spring	1	AGT1424S-110
111	Bolt	1	AGT1424S-111
112	Engine	1	AGT1424S-112
113	Washer	2	AGT1424S-113
114	Butterfly Pin	2	AGT1424S-114
115	Spring	1	AGT1424S-115
116	Cable Z-Fitting	1	AGT1424S-116
117	Adjusting Washer	1	AGT1424S-117
118	Drive Belt Pulley	1	AGT1424S-118
119	Auger Belt Pulley	1	AGT1424S-119
120	Flap Fuelket	1	AGT1424S-120
121	Flat Key	1	AGT1424S-121
122	Spring Washer	1	AGT1424S-122
123	Bolt	1	AGT1424S-123
124	Bolt	1	AGT1424S-124
125	Spring Washer	1	AGT1424S-125
126	Flap Fuelket	1	AGT1424S-126
127	Belt Rod	1	AGT1424S-127
128	Lock Washer	1	AGT1424S-128
129	Spring Washer	4	AGT1424S-129
130	Flap Fuelket	4	AGT1424S-130
131	Metal Nut	4	AGT1424S-131
132	Dowel Pin	2	AGT1424S-132
133	Tire Ass. Rh	1	AGT1424S-133
134	Circlip	1	AGT1424S-134
135	Wheel Hub	2	AGT1424S-135

136	Big Gear	1	AGT1424S-136
137	Flat Key	1	AGT1424S-137
138	Washer	1	AGT1424S-138
139	Pin	1	AGT1424S-139
140	Wheel Axle	1	AGT1424S-140
141	Bolt	8	AGT1424S-141
142	Frame Cover	1	AGT1424S-142
143	Control Cable	1	AGT1424S-143
144	Bolt	4	AGT1424S-144
145	Spring Washer	4	AGT1424S-145
146	Flap Fuelket	4	AGT1424S-146
147	Lower Handle	1	AGT1424S-147
148	Wire Clip	1	AGT1424S-148
149	Adjusting Plate	2	AGT1424S-149
150	Soft Shaft	1	AGT1424S-150
151	Control Cable	2	AGT1424S-151
152	Knob	2	AGT1424S-152
153	"T" Bolt	2	AGT1424S-153
154	Cupped Washer	2	AGT1424S-154
155	Sleeve Cover	2	AGT1424S-155
156	Metal Nut	2	AGT1424S-156
157	Flap Fuelket	2	AGT1424S-157
158	"T" Bolt	1	AGT1424S-158
159	"T" Bolt	1	AGT1424S-159
160	Controlling Plate	1	AGT1424S-160
161	Metal Nut	1	AGT1424S-161
162	Gear Lever	1	AGT1424S-162
163	Gear Lever Grip	1	AGT1424S-163
164	Tapping screws	1	AGT1424S-164
165	Spring	1	AGT1424S-165
166	Auger Control Lever	1	AGT1424S-166
167	Upper Handle	1	AGT1424S-167
168	Drive Control Lever	1	AGT1424S-168
169	Adjusting Washer	1	AGT1424S-169