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1 Introduction

Thank you for purchasing the Snowdog!

Before using Snowdog, please read this manual carefully.

Following technical instructions and safety tips ensure continuous years of reliable product usage.

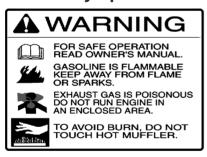
Snowdog is a compactly designed and reliable highly tracksled, equipped with a high-quality Briggs & Stratton engine and ready for off-road trips or fun.

All information in this manual corresponds to the state of the product at the date of signing and printing the document.

The manufacturer reserves the right to make changes to design without prior notice and without any obligations. If a difference is found between this Manual and your machine, please contact your Snowdog dealer to get the latest information.

Service life of Snowdog is 5 years.

2 Safety tips



This Owner's manual contains important information on safety tips and operating instructions for Snowdog. In case of resale, please share this document and the engine service manual with the next Snowdog owner due to the importance of the information contained.

Please read this manual carefully before operating the Snowdog. Non-compliance with the operation instructions and non-acquaintance with the information in the user's manual may cause serious damage and even injuries.

Snowdog operating safety tips and instructions are marked with "Warning" tag listed herein.

All the information on operating safety tips and instructions for Briggs & Stratton engine is in the engine user's manual. Please read the manual carefully before using the Snowdog.

A Warning

Before operating the Snowdog you must read the user's manual and engine user's manual.

- It is prohibited to operate the Snowdog for minors under 16 years old, and not recommended to operate Snowdog for people who are not capable to operate it safely for different reasons.
- It is prohibited to operate the Snowdog under the influence of alcohol and/or drugs.
- It is prohibited to use Snowdog without the mud flaps and emergency engine shutdown switch.
- Operating a faulty or defective Snowdog machine is prohibited.
- Operating the Snowdog on public roads and trails is strictly prohibited.
- Snowdog is designed for outdoor use only. Indoor use is prohibited.
- Park the Snowdog at a safe distance from people and animals.
- Before starting the engine make sure there are no people, animals or objects near the Snowdog that may be damaged or injured.
- Strap the engine security switch on your hand before starting the engine.
- Before starting the engine make sure the throttle control lever moves freely and is not fixed.
- Do not start the engine if the handlebar is folded.
- Do not fold the handlebar while the engine is running.
- · Always check out the parking brakes.
- Stay clear of the drive shafts!
- Any maintenance of the Snowdog and the engine must be carried out only after the engine is shut off, unless otherwise required for maintenance.
- Make sure all the screws on shafts are tightened before operating the Snowdog.
- In case of any control malfunctions you should stop, locate the problem, and fix it.
- Wear protective gloves when operating the Snowdog.
- Wear protective helmet when operating the Snowdog.
- Wear ear protectors to reduce the harmful effects of noise caused by the Snowdog.

• Sled or semi-trailer must be attached to the Snowdog with rigid drawbar only.





3 Technical specifications

-	T								
Model	Twin Track V14 MER								
Length in transporting position, in (mm)	57.48 (1 460)								
Width, in (mm)	35.03 (890)								
Height, in (mm)	31.1 (790)								
Maximum speed, mph (km/h)	15.53 (25)								
Engine series	Vanguard 400								
Engine model and type	25V3370054F1								
Engine Displacement, ci (cc)	24.9 (408)								
Oil volume, I	0.82-0.92								
Fuel type (gasoline)	87 octane								
Fuel tank, l	6.1								
Track length × width, in (mm)	113.31 × 14.96 (2878 × 380)								
Weight, lb (kg)	445 (202)								
Maximum load capacity on top, lb (kg)	165 (75)								
Maximum sledge load capacity, lb (kg)	661 (300)								
CVT belt size, mm	30 × 14 × 1380								
Center distance between CVT pulleys, in (mm)	16.53–16.73 (420–425)								

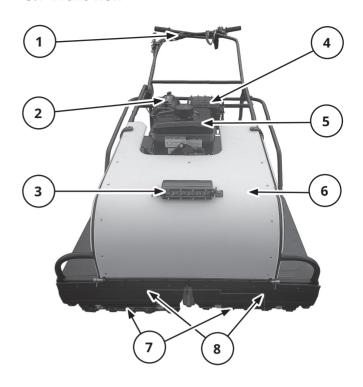
4 Snowdog purpose

The Snowdog is designed primarily to be used during wintertime. For operating it during warm season it is necessary to remove the slider suspension and the plastic covers to prevent engine overheating.

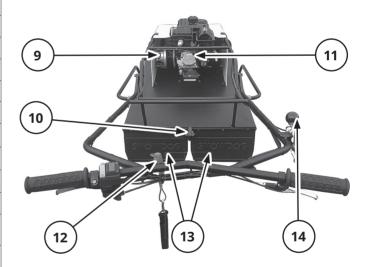
Snowdog is designed for towing the sled or semi-trailer on multiple terrains. Snowdog isn't meant to be used on roads, sandy soils and on the water.

5 Overview

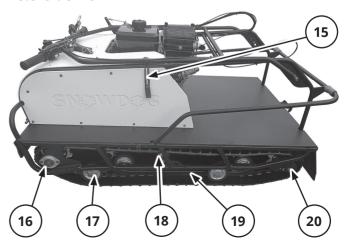
5.1 Front view



5.2 Rear view

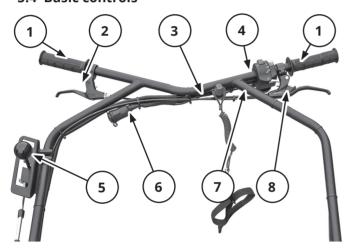


5.3 Side view



- 1. Handlebar
- 2. Air filter
- 3. Headlight
- 4. Muffler
- 5. Fuel tank
- 6. Hood
- 7. Track
- 8. Front mud flap
- 9. CVT pulley
- 10. Hitch
- 11. Engine
- 12. Engine security kill switch
- 13. Rear mud flap
- 14. Reverse shift lever
- 15. Hood fastener
- 16. Axle bearing
- 17. Trolley wheel
- 18. Track support wheel
- 19. Sliders
- 20. Track tensioner

5.4 Basic controls



- 1. Handle grip
- 2. Parking brake lever
- 3. Engine security kill switch
- 4. Handle switch assembly
- 5. Reverse shift lever
- 6. DC outlet
- 7. Choke lever
- 8. Parking brake

5.5 Handle switch assembly



1. Electric starter button (1).

When this button is pressed the electric starter is working and the engine can be started. Do not hold the button pressed for more than 10 seconds.

2. Headlight switch (2).

When the switch is in position **§O**^{Heat}, the handle heater, the headlight and the DC outlet are working.

When switch is in position **§O**, the light and the DC outlet are working.

When switch is in position ●, the handle heater, and the light are off. The DC outlet is working.

A Warning

Do not switch on the headlight if the battery is **not connected!**

3. Ignition on/off switch.

When the switch (3) is in position Ω (toward the operator), the ignition is on. The engine can be started.

When the switch (3) is in position \bowtie (away from the operator), the ignition is off. The engine cannot be started.

5.6 Fuel lock

The fuel lock is located under the fuel tank.



To close the fuel lock, shift the lever at STOP position.

To open the fuel lock, shift the lever from STOP position.

A Warning

If you store and transport the Snowdog with an open fuel lock, the fuel will get into the crankcase and mix with the oil.

5.7 Engine security kill switch

There is an engine emergency kill switch on the handlebar, it consists of the button and the safety pin.

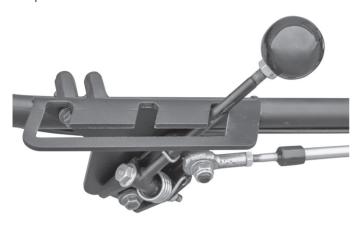


Snowdog should always be operated with safety pin strap belt around the hand. If the operator loses control while moving, safety pin will spring out off the button and turn off the engine. The machine will stop.

5.8 Reverse gearbox

To shift the gear, stop the Snowdog and switch on the parking brake. Reduce the engine to idle. Make sure the driving CVT pulley does not lock the belt or shut off engine.

To shift the higher gear, shift the lever forward, as shown in the picture below.



To shift the lower gear, shift the lever to a central position, as shown in the picture.



To shift the rear gear, shift the lever backward, as shown in the picture.



If there are difficulties with shifting the gear, stop the engine, switch the parking brake off and swing the Snowdog back and forth.

Warning

Never shift gears if the CVT driven pulley is rotating.

Never change the directions while moving when the parking brake is switched off. Never start moving when the parking brake is switched on.

Never use the full throttle immediately after the shift of the gear. Start moving smoothly, with minimal possible speed. For the first couple of meters after the shift, move with the lowest possible engine load.

5.9 DC outlet

The DC outlet (1) can be used for plugging lighting devices, radio devices, etc. The outlet should be used only when the engine is running.

Maximum values of parameters permitted for using the outlet: rated voltage — 12 V; maximum power — 20 W (1.6 A).



A Warning

When the outlet is not in use, it must always be covered by a cap.

Do not plug in external power consuming devices, which require more power than the aforementioned maximum value.

If external power consuming devices are used while the engine is not running, the battery may discharge, and it will be impossible to start the engine using the electric starter.

Do not use car cigarette lighter and other accessories with plugs that can produce heat as this can damage the outlet.

5.10 Parking brake lever



- 1. Parking brake lever
- 2. Parking brake lever lock

5.10.1 Switching the parking brake on:

- 1. Press the lever (1).
- 2. Pull and hold the lock (2).
- 3. Release the lever (1).

5.10.2 Switching the parking brake off:

- 1. Press the lever (1).
- 2. Release the lever (1).

A Warning

Never start the engine while the parking brake is switched off or faulty.

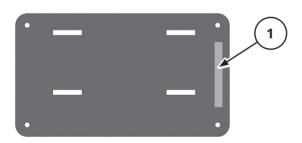
Never start the moving while the parking brake is switched on.

5.11 Snowdog identification



Manufacturer's informational labels with the information of the manufacturer, model, and Snowdog serial number are located on the front of the engine mount.

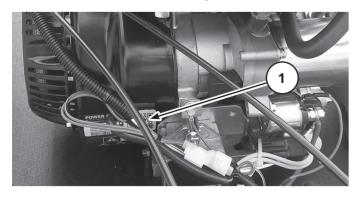
Serial number (1) is placed on the rear part of the engine mount (under the cylinder).



5.12 Engine identification

5.12.1 Engine identification

An adhesive label with the serial number and the barcode **(1)** is affixed to the front of the engine.



6 Snowdog setup

A Warning

Please read the user's manual for the engine and the Snowdog carefully before operation.

Make sure you have fully understood the instructions for the operation and maintenance of Snowdog.

6.1 Handlebar height adjustment



To adjust the height of the handlebar you need to rearrange fixture in one of three holes. To raise the handlebar higher, move the mounting holes in the bottom. To put the handlebar down, move the handlebar to the upper hole. Please NOTE, both mountings of the handlebar must be on the same level.

A Warning

Check fastening of wires and cables after adjusting height of handlebar. Wires and cables should not have any tension either in folded position or in unfolded position.

Don't place your whole weight on the handlebar. Do not step on the handlebar. Do not use the handlebar as a lever for lifting front part of Snowdog. Overloading the handlebar can damage it.

7 Operating the Snowdog

A Warning

The first 20 hours of operating the Snowdog are needed for engine and transmission to adjust. During this period, use Snowdog with lowest possible load.

At the ambient temperature above +41 °F (+5 °C), it is necessary to remove the plastic covers and operate the Snowdog without them to prevent engine overheating.

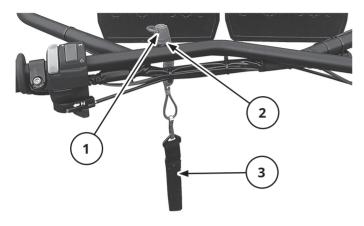
Do not turn on the headlight if the battery is faulty, removed or disconnected. It may lead to damage.

7.1 Preparations, necessary to maintain before every start up

- 1. Move the handlebar from the transporting position into the operating position.
- Sled or semi-trailer must be attached to the Snowdog with a hitch.
- 3. Check the chain tension.

- 4. Check the throttle and the brake cable (lubricate if needed).
- 5. Check how the throttle lever moves the lever should move easily and return to the starting position very quickly.
- 6. Check the parking brake.
- 7. Move the parking brake into the fixed position.
- 8. Install and connect the battery if it was removed.

Fix the cap (1) of the engine security kill switch safety pin (2) and put the strap belt (3) on your hand or attach it to your belt.

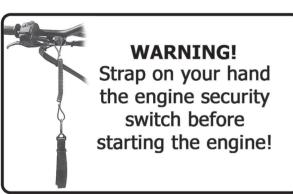


7.2 Starting the engine

A Warning

Make sure that there are no animals, people, or objects in front of the Snowdog which can be damaged or injured by uncontrolled movement of Snowdog.

Following the engine start, the Snowdog may start moving uncontrollably if it has been previously misused or improperly stored.







- 1. Check the oil level in the engine.
- 2. Make sure the throttle lever moves freely.
- 3. Close the choke on handlebar.
- 4. Set the ignition switch located on the handle switch assembly to "ON" Ω position.



5. Remove the fuel lock lever from the STOP position.



Start the engine. To start the engine press and hold the electric starter button on the handle switch assembly. Release the button right after the engine started. Make sure the starter button does not touch the parking brake lever.



A Warning

When starting the engine with the electric starter do not hold the button for more than 10 seconds at each attempt.

If the engine does not start, release the starter button. Pause for 30 seconds before making next attempt.

6. To start the engine with a manual starter, pull out the starter handle (1) until first noticeable resistance. Without returning it to its place, swiftly pull the handle further out. After starting the engine, slowly return the handle back to its initial position, allowing for the cord to wind-up.



A Warning

Do not twitch the handle when starting. Do not pull the cord out all the way until it stops.

Do not release starter handle abruptly after the engine has started.

- 7. Let the engine run with choke for about a minute, and then gradually move away the choke. Let the engine warm up for at least two minutes.
- 8. Release the parking brake from the fixed position before moving.

7.3 Snowdog operation

Throttle lever on the right side of the handlebar controls arm-off and speed change. Snowdog starts moving when the throttle lever is approximately in ¼ position.

Press the lever slowly to engage the transmission and to start moving. Increase pressure on the throttle lever until the desired speed is reached.

When starting to move on the crumbly snow, accelerate slowly to avoid slipping. To make a turn, steer the handlebar in the direction opposite to the turn. To stop the Snowdog, release the throttle back — never apply the parking brake to stop the Snowdog while driving.

7.4 Stopping the engine

To stop the Snowdog, slowly release the throttle lever. The Snowdog will slow down and eventually stop.

To shut down the engine in case of emergency, flip the ignition switch located on the switch assembly to "OFF" position or pull out the engine security switch.

When the Snowdog stops, switch the parking brake on.

When the Snowdog is stopped and the parking brake is on, you can switch off the engine. When stopping for more than 10 minutes, close the fuel lock.

Turn off the headlight and the handle heater.

Switch off the device, which may consume power from the DC outlet.

When raining or snowing, or the temperature reaches 32 °F (0 °C) or lower, it is necessary to protect the Snowdog with cover. Otherwise, snow and water can freeze on engine control levers and other parts of the Snowdog which makes operating impossible.

In case the Snowdog got through water or wet snow it is necessary to clear it from snow and ice, otherwise the water can freeze and bind down the transmission resulting in inability to move.

7.5 Maintenance

7.5.1 Before each trip

1. Remove snow and ice from the Snowdog.

The carburetor control levers and springs between the engine and fuel tank should be cleaned most carefully.

- 2. Check the secure connection of the parts and assemblies of the Snowdog and tighten the screws if necessary. Check the parking brake.
- 3. Check the engine oil level.
- 4. Pay particular attention to handlebar mounting and attachment of the sled.
- 5. Ensure that the throttle lever moves easily and returns to the starting position very quickly.

7.5.2 During each trip

When moving on wet snow, or snow with water under it, or on puddles, clean the transmission and the suspension of snow and ice regularly.

A Warning

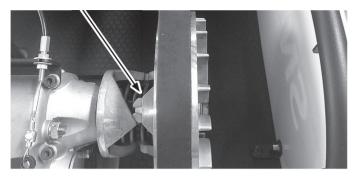
When operating the Snowdog for more than an hour, it is necessary to stop and check the following:

- 1. Check the throttle lever to see that it is working.
- 2. Check the carburetor and governor control lever. There should not be any ice or frozen snow on them
- 3. Visually inspect the mounting, paying particular attention to the attachment of the sled and handlebar.

7.5.3 After each trip

- 1. Close the fuel lock.
- 2. Switch off the ignition on the handle switch.
- 3. Switch off the headlight and the handle heater.
- 4. Unload the Snowdog.
- 5. Clear the Snowdog from any snow, ice, branches, leaves, dirt, etc.
- 6. Check the chain tension. If necessary, pull the chain.
- 7. Carefully inspect the CVT. Clean up if necessary.

Check the condition and lubricate the plastic inserts.
 If plastic inserts are missing or worn out — insert new ones.



- 9. Visually check the track tension. If necessary, pull the track.
- 10. Check the condition of the sliders.
- 11. Visually inspect the Snowdog for leakage (fuel, oil).

7.6 Fueling

Make sure there is enough fuel in the fuel tank. Use only 87 or higher octane lead-free gasoline according to the engine manual.

A Warning

- Fuel is highly flammable and explosive, you should avoid getting burned and injured while working with it.
- Stop the engine before refueling. Make sure there are no heating appliances, sparks or flames around.
- Refuel outdoors only.
- Refuel only in a well-ventilated area and only if the engine is stopped. If the engine has been recently running, let it cool down first.
- Spilled fuel is not only highly inflammable but can also harm the environment. In case of spilled fuel, wipe down as soon as possible.

Do not fill the tank with fuel above the maximum level. The fuel expands when heated. If the tank is overfilled, the fuel heated by engine or sun can leak from the tank.

Do not spill fuel, especially on the engine and the muffler as it may cause fire and severe injuries.

Wipe the spilled fuel dry.

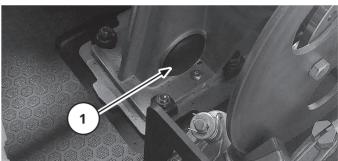
After refueling make sure that the cap of the fuel tank is sealed tightly.

7.7 Checking the chain tension

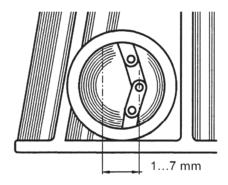
The chain tension is checked with a loose lift of the driven CVT pulley. Increase or reduce gears and check the loose lift of the driven CVT pulley. The chain will have a loose lift of 0.39–1.57 in (10–40 mm) along its diameter.

For accurate checking of the chain tension:

1. Remove the rubber cap (1) of the inspection hole.



- 2. Increase or reduce gears in the reverse gearbox.
- 3. Rotate the driven pulley disk counterclockwise all the way to increase the tension or rotate the driven pulley disk clockwise to decrease the tension. The difference of the chain positions must be 0.04–0.27 in (1–7 mm).



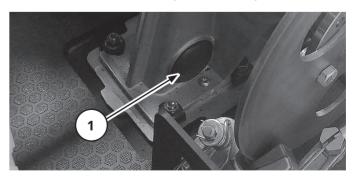
The chain tension is checked with a loose lift of the driven CVT pulley. Increase or reduce gears and check the loose lift of the driven CVT pulley. The chain will have a loose lift of 0.39–1.57 in (10–40 mm) along its diameter.

While operating, the chain stretches, and the distance between chain links changes. If the adjustment range is not enough, the chain should be replaced. Do not shorten the chain by removing one or more links.

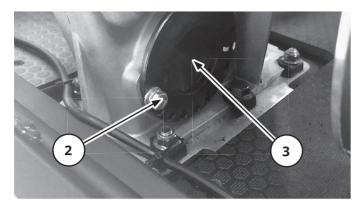
7.7.1 Adjusting the chain tension

To adjust the chain tension:

1. Remove the rubber cap (1) of the inspection hole.



2. Unscrew the fixing bolt (2) of the tensioner (3).



- 3. Switch the reverse gear lever to a Forward position.
- 4. Rotate the tensioner **(2)** to set the necessary chain deflection of 0.04–0.27 in (1–7 mm).
- 5. Fix the tensioner with a bolt (1).

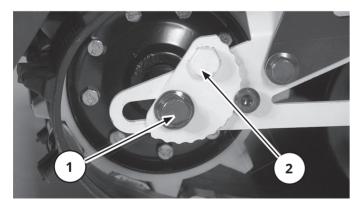
7.7.2 Checking the track tension

Before starting any movement check the condition and tension of the track. Overtension leads to engine power loss and causes overloads.

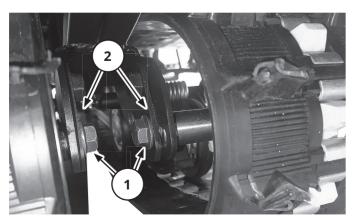
There is no measurable parameter for track tension adjustment. The track should be tensioned so that the hand force is sufficient to press its upper part against the Snowdog frame, but not enough to press it against the suspension trolley.

7.7.3 Track tension

- 1. Loosen the transmission driven shaft bolts (1).
- 2. Turn eccentrics (2) to adjust the shafts.



3. Check the track tension.



4. Tighten the bolts.

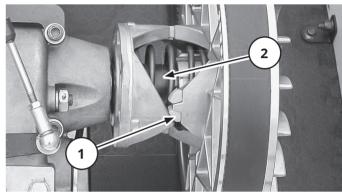
7.8 CVT maintenance

A Warning

All the repairs on the CVT should be carried out only with the engine shut off.

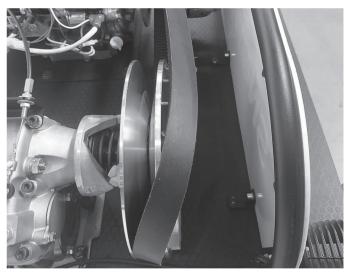
Carefully inspect the CVT. Clean, if necessary. Check the condition and lubrication of the plastic inserts after each use. If plastic inserts are missing or worn out — insert new ones.

Lubricate the inserts (1) and the CVT shaft (2) every month.



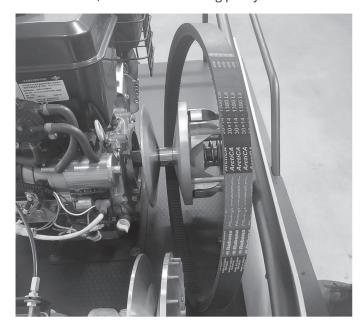
7.8.1 Replacement of CVT belt

- 1. Switch off the engine.
- 2. Open the hood.
- 3. Pull the part of the belt off to the external side of the driven pulley of the CVT.



4. Rotate the driven pulley and guide the belt to its external side.

5. After the belt is completely off the driven pulley of the CVT, take it off the driving pulley.



6. Install the belt in the reverse order.

7.9 Air filter maintenance

A Warning

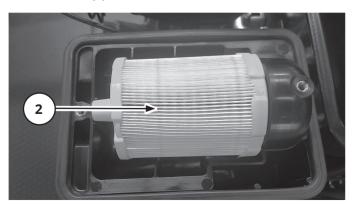
Maintenance and replacements intervals must be shortened if you use the Snowdog under severe operation conditions.

The air filter is located on the carburetor.

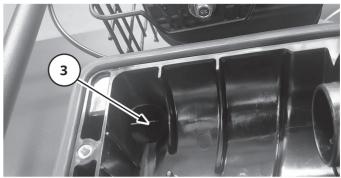
To remove the air filter cover, unscrew the winged nuts (1) and remove it.



The filter core (2) is located under the cover.



Check the condition of the rubber storage (3) before each use.



Clean the frame and the filter core no less than every 25 hours of operation or every year, as well as if there is dirt in the storage.

Replace the filter core no less than every 100 hours of operation or every year.

When you remove the cover and put it back on, pay attention to the condition of the air filter.

If there are contaminations or damage, replace the air filter.

7.10 Checking oil level

Check the oil level in the engine every day before use or every 8 hours of operation. Check the oil level on an idle engine located on a horizontal surface.

A Warning

Running the engine with insufficient oil level will cause damage.

1. Take out the oil filter cap.



- 2. Wipe it clean and put it back on, then take it out and check the oil level.
- 3. If the oil level is near or lower than the minimum mark on the cap, add the oil up to the upper mark.



Do not pour oil above the level.

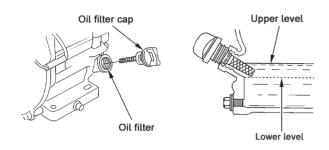
4. Put the oil filter cap back.

7.11 Changing the oil

Change the oil every 100 hours of engine operation or every year.

Change the oil only in a warmed-up engine.

- 1. Take the oil filter cap out.
- 2. Unscrew the drain bolt and drain the fuel.



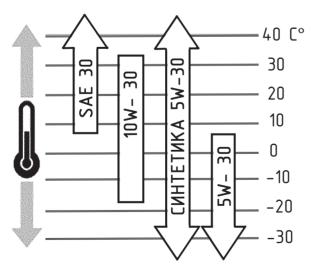


Warning

Please make sure the used oil is disposed in an environmentally safe way. We recommend that you take the used oil in a closed container to your nearest waste disposal site.

- 3. The engine should be located on a horizontal surface. Add the recommended oil to the upper mark level (lower edge of the oil hole).
- 4. Put the oil filter cap back and tighten it.

Use engine oil that meets or exceeds SF, SG, SH and SJ standards of API. Do not use special additives. Always check the API service mark on the oil container.

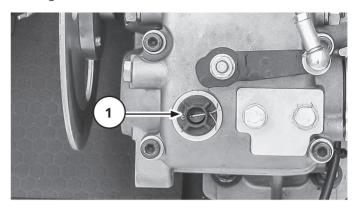


SAE 5W-30 oil is recommended for common use.

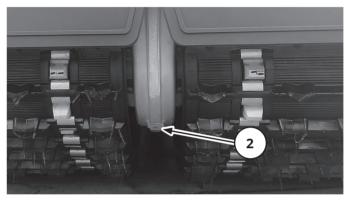
7.12 Reverse gearbox maintenance

7.12.1 Reverse gearbox oil change

1. Unscrew the oil filling plug (1) of the reverse gearbox.



2. Unscrew the drain bolt and drain the oil.



- 3. Screw in the drain bolt.
- 4. Fill the gearbox with 150 ml of oil and close the oil filling plug.

Warning

Total amount of oil in the gearbox is 150 ml.

Recommended oil: transmission oil SAE 75W-90 GL-5.

A Warning

Dispose of the oil in accordance with current legislation.

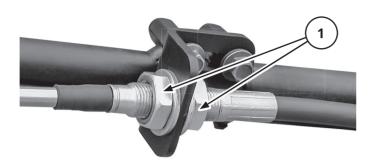
7.12.2 Adjustment of the reverse shift cable

If the shift cable of the reverse gearbox is sag or there are difficulties with switching gears, adjust the shift cable.

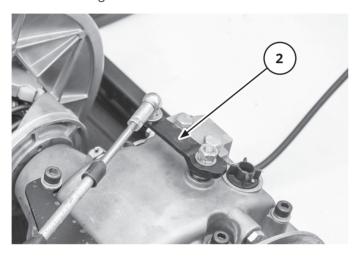
A Warning

Operating the Snowdog with insufficient adjustment of the shift cable will cause damage to the reverse gearbox.

- 1. Switch off the engine. Switch the lever of the reverse gearbox into the forward position.
- 2. Unscrew the locknuts (1).



3. Make sure the lever (2) is switched all the way clockwise. Rotating the driven pulley, make sure the forward gear is switched on.



- 4. Do not move the levers and the shell, tighten the locknuts (1).
- 5. Switch the lever of the reverse gearbox into the reverse position.



- Rotating the driven pulley, make sure the reverse gear is switched on. Make sure that the cables are stretched.
- 7. If necessary, rotate the locknuts (1) and move the cable to adjust the mutual arrangement of levers.

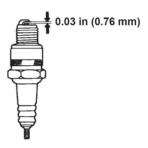
7.13 Spark plug maintenance

A Warning

Use only the recommended spark plugs.

Using the wrong spark plugs will damage the engine.

- 1. Take the high-voltage wire connector off the spark plug and unscrew the spark plug using a wrench.
- 2. Inspect the spark plug. If you find any cracking or significant electrode wear, replace the spark plug.
- 3. Measure the gap between the electrodes. If the gap needs to be fixed, bend the side electrode. The gap should be 0.03 in (0.76 mm).



- 4. Check the condition of the washers. Engage the spark plug with your hands preventing it from thread misalignment.
- 5. Screw the spark plug in.

Tightening torque is 31 N·m.

A Warning

Spark plugs must be tightened. Otherwise, it can lead to engine damage.

7.14 Battery maintenance

Battery life depends on how it is used. The best battery operating mode can only be ensured if it is fully charged. When the engine is started with an electric starter, the battery gives up part of the charge and later makes up for this loss during the driving. When driving for a long time at low speeds with power consumers (e.g. a headlight) switched on, the charge may not be sufficient. In such cases, the battery must be charged. The voltage of a charged battery should be 12.6–12.9 V. If the battery voltage is less than 12.6 V, battery must be charged.

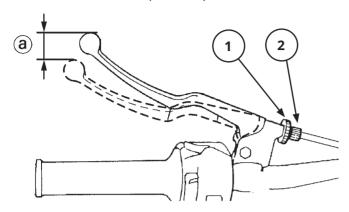
A Warning

Use chargers for AGM-batteries only. The use of chargers with voltage exceeding 14.6 V will damage the battery. Do not store the battery discharged. Leaving the battery discharged for a long time leads to its damage.

Before storing the Snowdog for a long time, remove the battery and charge it. Store the battery in a room with a temperature range of 33–68 °F (1–20 °C). Check the charge at least every two months.

7.15 Brake cable adjustment

Check the idle stroke of parking brake lever A. It should have a value of 0.2–0.4 in (5–10 mm).



To do this, loosen the locknut (1) and rotate the adjusting screw (2) counterclockwise to pull cable so that the brake lever has a free wheeling within 0.2–0.4 in (5–10 mm).

To loosen the brake cable, loosen the locknut (1) and rotate the adjusting screw (2) clockwise.

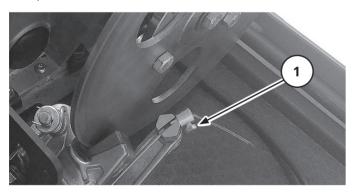
If the lever adjustment is not enough to set up the idle stroke, adjust the brake caliper and check the condition of pads.

Before adjusting the brake caliper, loosen the brake cable on the lever as much as possible.

7.16 Adjusting the brake caliper

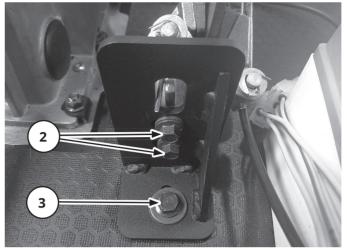
Ensure that the lever can be pressed and returned to the starting position easily. If the movement of the lever is complicated, lubricate or replace the cable.

Loosen the bolt (1) and pull the cable until the necessary clearance between the brake pads and the brake disk is set up.



Tighten the bolt (1) and check the movement of the parking brake lever.

Loosen the nuts (2) of the brake caliper and the nuts (3) of the support bracket and adjust the position of the brake pads to the brake disk.



Check the functioning of the parking brake.

If the brake pads are obstructing the brake disk's rotation, increase the brake lever stroke.

7.17 Washing and cleaning

After each trip clean the Snowdog of any snow, ice, branches, leaves, dirt. Use water and cleansing agents. Before using the cleansing agent, read its instruction.

Warning

Do not direct a jet of water under pressure at bearings, suspension parts, muffler, air filter or electrical parts. Water can wash out the lubricant from the bearings and damage other parts.

8 Severe operation conditions

A Warning

When operating under heavy duty conditions the maintenance should be carried out more often.

Heavy duty operating conditions include:

- Moving on deep loose snow (more than 16 inches in depth);
- Moving at temperature below -13 and above 50 °F;
- · Moving on wet snow and on snow containing water;
- Moving on surfaces flooded by water;
- Moving on rocky terrain;
- Moving on snow crust which cannot withstand the weight of the tracksled and sleds;
- Participation in races and competitions;
- Prolonged moving at low speed, "tightly strained";
- Moving with a towed load more than 330 lb;
- Moving on hard-surfaced roads;
- Moving on the mud;
- · Moving on the sand;
- · Prolonged moving uphill, downhill, or on slopes;
- Short trips with frequent stops.

9 Scheduled maintenance

9.1 After the first 5 hours of Snowdog operation

1. Change the oil in the engine.

9.2 Every 8 hours of Snowdog operation or daily

- 1. Check the motor oil level.
- 2. Clean the area around the muffler and the controls.
- 3. Clean the air intake grilles.

9.3 After the first 25 hours of Snowdog operation or every year

- 1. Clean or change the air filter.
- 2. Lubricate the throttle and parking brake cables with silicon oil.
- 3. Adjust the idle stroke of the throttle and parking brake levers.
- 4. Adjust the chain tension.
- 5. Check the transmission bearings.
- Check all the bolts fastening trolleys, sliders and bearings for tightness.
- 7. Check the reverse gearbox shift mechanism.

9.4 Every 100 hours of Snowdog operation or every year

- 1. Change the oil in the engine.
- 2. Change the oil in the gearbox.

- 3. Clean or change the air filter.
- 4. Change the spark plug.
- 5. Lubricate the throttle and parking brake cables with silicon oil.
- 6. Check the transmission bearings.
- 7. Adjust the idle stroke of the throttle and parking brake levers.
- 8. Adjust the chain tension.
- 9. Clean the muffler heat shield.
- 10. Check all the bolts fastening trolleys, bearings, wear strips and shafts for tightness.
- 11. Check the bolts fastening the engine and the reverse gearbox.

9.5 Every year

- 1. Change the spark plug.
- 2. Change the air filter.

10 Transportation

Shut down the fuel lock before transporting. The Snowdog must be in a horizontal position during loading and unloading. When transporting the Snowdog, make sure it is secure.

11 Snowdog maintenance table

	Before each use	After each trip	After the first 5 hours of operation	Every 8 hours of Snowdog operation or daily	Every 25 hours of operation or every year*	Every 50 hours of operation or every year*	Every 100 hours of operation or every year*	Every 200 hours of operation or every year*	Every 250 hours of operation or every year*	Every 400 hours of operation or every year*	Under severe operation conditions	Preparation for transportation	Maintenance after transportation	Preparation for long storage*	During long storage	Commissioning after long storage*
Oil in the engine	Α		R	Α			R									
Fuel	Α											S	S	S		R
Fuel lock	Α	Α										Α		Α		
Process fluids leakage	Α	Α			Α										Α	
Areas around the muffler and the controls				S												
Muffler						S										
Valve expansion gap									Α							
Air intake grilles				S												
Throttle lever lidle stroke	Α			Α	S											
Throttle cable	Α				S											
Brake lever idle stroke	Α				S											

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				ylly	*	*	* 1	*]	ır*	۱۲*						
				Every 8 hours of Snowdog operation or daily	Every 25 hours of operation or every year*	Every 50 hours of operation or every year *	Every 100 hours of operation or every year *	Every 200 hours of operation or every year *	Every 250 hours of operation or every year*	Every 400 hours of operation or every year *						
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			ے	<u>.</u>	'er	'er	Ş	š	šve	şve	SC		_			*
			After the first 5 hours of operation	rat	e/	e/	J.	J.	or 6	or 6	Under severe operation conditions	_	Maintenance after transportation			Commissioning after long storage*
			ers	be	١O	١O	Ē	ū	n () U	l j	Preparation for transportation	tat	*		tor
			do	80	jor	ior	ţ	tic	atic	atic	00	tat	ŏ	Preparation for long storage*		S S
			of	ob/	rat	rat	era	ers	era	era	n C	or	nsk	tor		On
			ırs	ŏ	be	be	do	do	Ор	do	atic	nsp	tra	8 8	(D)	P -
			100	S	of c	of c	of	of	of	of	ere	tra	e	lon	During long storage	aft
	ISe		5	of	S	S	JrS	ırs	JrS	Jrs	do	or 1	aft	orl	tor	50
	Before each use	After each trip	rst	urs	onı	ıno	hol	hol	hoı	hoı	ere.	n	e e	n f	p0	ij
	Sac	유	e fi	h	5 h	h C	0	0	20	00	eV	ti)	Jan	tio	On	Si
	e e	ea	t	∞	/ 2!	/ 5(7	/ 2(/ 2!	/ 4(S	ara	te	ara	18	J:E
	lol	ter	ter	er)	er)	er)	er)	er)	er)	er)	ge	eb	ä.	eb	Ξ	Ē
	Be	Af	Af		EV	E			EV	Ev	5	P	ž	Pr	۵	ပိ
Handle switch assembly	Α				S											
Electric starter operation	Α				Α										L	
Manual starter operation	Α				Α						Α					
Engine idling	Α			Α							Α					
Engine response to throttle lever position	Α			Α												
Unusual sounds with running engine	Α			Α							Α					
Handlebar and their fitting	Α			Α							Α					
Semi-trailer attachment	Α	Α			S						S					
Reverse gear shifting	Α			Α												
Emergency engine shutdown switch	Α			Α												
Handle switch assembly	Α			Α												
Chain					Α						Α					
Headlight	Α	Α			Α											
Cleaning from dirt or snow		S									S			S		S
Battery		Α			S									S	S	S
Track		Α			S									S	S	S
Cleaning carburetor controls from snow	Α	S									S					
Track shafts		Α									Α					
Suspension trolleys		Α			Α						Α					
Transmission shaft bearings		Α			Α						Α					
Trolley bearings		Α			Α						R					
CVT pulleys		Α			S						S					S
CVT belt		Α			Α											
Reverse gear oil							R							R		Α
Air filter (T-V408-MER-MR)					S					R						
Muffler heat shield					Α		S				S					
Cooling system							S									
Fuel hose					Α		-									Α
Battery wires					Α							S	S			Α
Charging					Α											Α
Brake caliper and pads					Α						Α					
Parking brake disc					Α						Α					
Wear strip mount					S						S					
Suspension trolley fastening					S						S					
Support wheels				Α	S		S				Α					
Engine fastening					S						Α					
Gearbox fastening					S											
Engine mount fastening					S											
Spark plug							R									Α
Carburetor					S									S		S
Cai Dai Ctoi						\Box										ر

 $[\]begin{array}{l} {\rm A-Adjust;\,S-Service;\,R-Replace.} \\ {\rm *-carried\,\,out\,\,by\,\,a\,\,Snowdog\,\,dealer.} \end{array}$

12 Storage

Snowdog should be stored in a dry ventilated room or outdoors under a canopy with a waterproof cover. Snowdog must be protected from direct sunlight.

Warning

Make sure the storage area is free of high humidity or dust.

Engine maintenance must be carried out in accordance with Briggs & Stratton engine user's manual. If the instructions in this Snowdog owner's manual are different from those in the Briggs & Stratton engine user's manual, follow the instruction specified in the latter.

12.1 Preparation for short storage (less than one month)

- 1. Clean or wash the Snowdog.
- 2. Lubricate the throttle and parking brake cables with silicon oil.
- 3. Take the battery off and charge it.

12.2 Preparation for long storage (more than one month)

- 1. Clean the Snowdog.
- 2. Warm up the engine and change the motor oil.
- 3. Fill the fuel tank completely.
- 4. Shut down the fuel lock.
- 5. Take the battery off and charge it. Check the battery charge at least every two months. Charge it if needed. Store the battery in a room with a temperature range of 33–68 °F (1–20 °C).
- Rotate the track half a turn at least every six months.
- 7. Cover the Snowdog from dust.

This preservation ensures the safety of the Snowdog for up to 12 months, provided the storage rules are observed. After 12 months, prepare the Snowdog for operation and run the engine for a few minutes. If further storage is required, prepare it for storage again.

12.3 Snowdog commissioning after long storage

- 1. Clean the Snowdog of dust and dirt.
- 2. Fill the fuel tank with fresh fuel.
- 3. Charge and install the battery.
- 4. Adjust the idle stroke of the throttle and parking brake levers.

13 Manufacturer's warranty Snowdog

13.1 General

Manufacturer's official representative (Snowdog LLC) warranties against defects of material or workmanship for a period of 12 months from the original date of sale (this warranty is not transferable). Snowdog will repair or replace at its option any parts or assembly that is proven to be defective in material or workmanship under normal use during the applicable warranty time period. Warranty repairs will be made without charge for parts and/or labor. Any part or assembly replaced under warranty becomes the property of Snowdog LLC and all parts and assemblies replaced under warranty will be considered as part of the original product and any warranty on those parts will expire coincident with the original Snowdog warranty (certain exceptions to this warranty are listed herein).

- 13.1.1 Throttle cable, parking brake cable, wire harness, including stop switch and track will be covered for a period of 90 days to be free of defects. Abuse and neglect are not covered under this warranty.
- 13.1.2 Drive chain, sprockets, driving and driven pulleys of CVT, headlight, heaters, protective covers, sliders will be covered for a period of 30 days to be fine of defects. Abuse and neglect are not covered under this warranty.
- 13.1.3 Battery will be covered for a period of 30 days from date of sale. Undercharged, overcharged or frozen batteries are not covered by this warranty. Abuse and neglect are not covered under this warranty.

13.2 The warranty does not cover:

- 13.2.1 Engine warranties are the responsibility of the manufacturer. Contact the authorized dealer for repairs.
- 13.2.2 Consumables and parts subject to wear and overcharge depending on the style, intensity and conditions of operation: supporting wheels, drive wheels, suspension springs, sliders, tubes, bearings, rubber-metal elements, dust caps, hitch mechanism and its mount, CVT belt, parking brake pads, protection elements, fuses, filling liquids, various types of gaskets, drive shafts, and consumables.
- 13.2.3 Any damage done to the frame and sub-frame, provided there are no holes and/or voids in the material and welding seams.
- 13.2.4 Any Snowdog damage resulting from water ingestion: getting through water, or contamination of parts and components (if they haven't been cleansed in timely manner) or hitting an obstacle.
- 13.2.5 Snowdog serviced by an un-authorized dealer or using non OEM parts.
- 13.2.6 Any damages done to the plastic, glass, rubber, paper, and cloth parts.
- 13.2.7 Any damages resulting from Snowdog exposure to extreme environment, such as storage in improper conditions, use of pressure washers, hitting a stone, industrial waste, wood tar, salt, hail, storm, lightning, natural disasters, or other environmental disasters, as well as acts of vandalism or other uncontrolled action.

- 13.2.8 Snowdogs, upgraded with parts which were not approved by the Manufacturer's official representative, or vehicles with altered serial number and engine number.
- 13.2.9 Any damages resulting from a collision (if they were not caused by technical faults).
- 13.2.10 Snowdog used in sporting events, competitive driving, for commercial purposes, as well as the vehicles with damage resulting from an overload
- 13.2.11 Snowdog which failed to pass scheduled technical maintenance.
- 13.2.12 Any damages resulting from incomplete or improper care (disregard of daily or periodic technical maintenance).
- 13.2.13 Any Snowdog defects, which can be eliminated by adjustment (track tension and position adjustments, chain tension adjustment, etc.).
- 13.2.14 Any side sounds, noises, squeaks, vibrations that do not affect the overall performance and efficiency of the Snowdog.
- 13.2.15 Any parts and components damaged in result of normal wear and tear.
- 13.2.16 Any additionally installed equipment and accessories (including heated handles, headlight, winch, etc.)
- 13.2.17 Slight leakage of oil or other fluids through the insulation causing no change in their level.
- 13.2.18 Consequences arising from operating the faulty Snowdog.
- 13.2.19 Any Snowdog misuse. The defects that appeared as a result of such misuse are to be paid by the client.
- 13.2.20 Expenses incurred by the owner associated with the breakdown of the machine, such as:
 - · technical assistance;
 - Snowdog towaway and transportation;
 - compensation for the inconvenience and commercial losses;
 - leasing and purchasing another equipment.
- 13.3 You must at your expense take the Snowdog and proof of purchase to any authorized Snowdog dealer during their normal business hours. Any defects in material or workmanship will be repaired at no charge to the end user. Abuse and neglect including section 13.2 are not covered by this warranty.

14 Warranty card*

14.1 Snowdog details

14.1 Showadg details		
Model		
Serial number		
Engine number		
Date of purchase		
14.2 Seller details		
Dealer name		
Dealer address		
Phone		
Dealer stamp		
14.3 Buyer details		
Name		
Address		
Phone		
warranty, the necessity of time	nd owner's manual to the Buyer; perating rules has explained the provision ly technical service. ding the Snowdog exterior condition	ons of the conditions of the manufacturer' Signature
Service ticket Maintenance services	Service ticket Maintenance services	Service ticket Maintenance services
Authorized dealer stamp	Authorized dealer stamp	Authorized dealer stamp
Date «20	Date «20	Date «20
Signature	Signature	Signature
Service ticket Maintenance services	Service ticket Maintenance services	Service ticket Maintenance services
Authorized dealer stamp	Authorized dealer stamp	Authorized dealer stamp
Date «20	Date «20	Date «20
Signature	Signature	Signature

17 Electrical drawing

