

SNOWDOG®

WWW.SNOWDOG.COM

User's manual

Snowdog Compact B10 ME Standard B10 ME



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1 Preamble

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 highly reliable tracksled, equipped with a high-quality Briggs & Stratton engine and ready for off-road work or fun.

All information in this manual corresponds to the state of the products 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 yours, please contact your Snowdog dealer to get the latest information.

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 following rules and instructions may cause serious damage and even injuries. Snowdog operating safety tips and instructions are marked with "CAUTION!" tag listed herein.

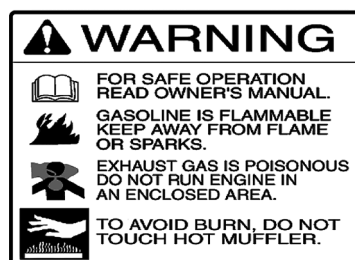
⚠ Caution

- Before operating the Snowdog you must read the Owner's manual and the engine operator'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 of safe operating 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 chain protection cover, mud flaps and emergency engine shutdown switch.
- Operating a faulty or defective Snowdog unit is prohibited.

- Operating the Snowdog on the public roads and trails is strictly prohibited.
- Snowdog is designated strictly for outdoor use. Indoor use is prohibited.

3 Introduction

The purpose of this manual is to familiarize you with the Snowdog maintenance and operation procedures, and give you troubleshooting tips. "Snowdog Compact" and "Snowdog Standard" are towing modules primarily designed for cargo transportation in the luggage compartment, hauling cargo on sledge or semi-trailer over different surfaces.



4 Snowdog purpose

The Snowdog is designed primarily to be used during winter time. For operating it during warm season it is necessary to remove the cover and to take measures 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.

⚠ Caution

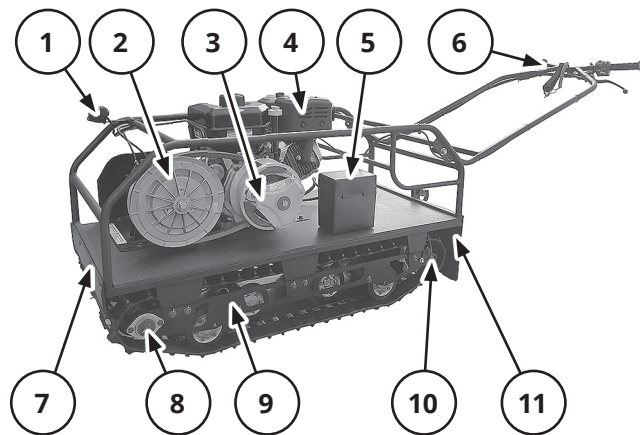
- Before starting the engine make sure there are no people, animals or objects near the Snowdog that may be damaged or injured.
- Strap the engine security switch on your hand before starting the engine.
- Stay clear of the moving gears in the drive shaft and chain!
- Park the Snowdog at a safe distance from people and animals.
- Make sure the engine is stopped before removing the transmission protective cover.
- Make sure all the gear screws and drive shafts are tightened before operating the Snowdog.
- Do not start the engine if the handlebar is folded.
- Do not fold the handlebar while the engine is running.
- Please do not use the parking brake during the motion. It may cause the loss of control of Snowdog and trauma.
- Before starting the engine please make sure the throttle control lever moves freely and is not fixed.
- Before starting the engine move the handlebar into the operating position.
- Always check the parking brakes.
- In case of any control malfunctions you should stop, locate the problem and fix it.
- Sled or semi-trailer must be fixed to a Snowdog with the rigid drawbars only.
- Wearing protective hand gloves when riding the Snowdog is recommended.
- For safety reasons we recommend using the helmet.

5 Technical specifications

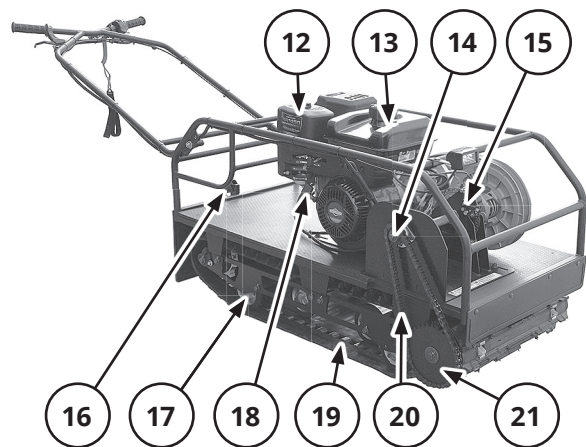
5.1 Technical specifications for Snowdog models

Specs	Snowdog Compact B10 ME	Snowdog Standard B10 ME
Length in transporting/operation position, in (mm)	50.0 / 86.5 (1 270 / 2 200)	58.0 / 94.5 (1 470 / 2 400)
Width (including steering handles), in (mm)	26 (650)	26 (650)
Height, in (mm)	33.5 (850)	33.5 (850)
Weight, lb (kg)	298 (135)	320 (145)
Maximum load capacity on top, lb (kg)	100 (40)	110 (50)
Maximum sledge load capacity, lb (kg)	330 (150)	440 (200)
Maximum speed, mph (km/h)	15.53 (25)	15.53 (25)
Engine series	1450	1450
Engine model, type	19N1370076	19N1370076
Engine Displacement, ci (cc)	18.67 (306)	18.67 (306)
Fuel type (gasoline)	87 octane	87 octane
Fuel tank, l	5.3	5.3
Track type	Compact	Standard
Tread count	48	56
Track length × width, in (mm)	95.43 × 19.69 (2 424 × 500)	111.3 × 19.69 (2 828 × 500)
Transmission type	CVT	CVT
CVT belt, mm	30 × 14 × 1120	30 × 14 × 1120
Center distance between CVT pulleys, in (mm)	10.2–10.8 (260–275)	10.2–10.8 (260–275)

6 Overview



1. LED headlight
2. CVT Driven pulley
3. CVT Driving pulley
4. Muffler
5. Battery
6. Engine security kill switch
7. Front mud flap
8. Axle bearings (self-centering)
9. Side plate chassis
10. Track tensioner
11. Rear mud flap



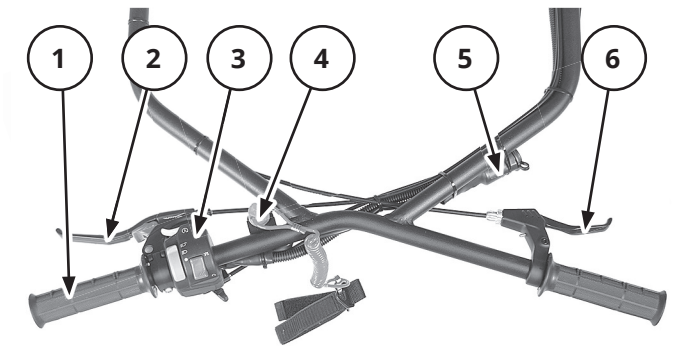
12. Air filter
13. Fuel tank
14. Driving sprocket
15. Brake disk
16. Hooking device
17. Wheel trolley of suspension
18. Manual starter handle
19. Track
20. Transmission chain
21. Driven sprocket

6.1 Snowdog identification

Serial no. is located on the front part of the chassis. It is also shown on the back part of the chassis using point marking method.

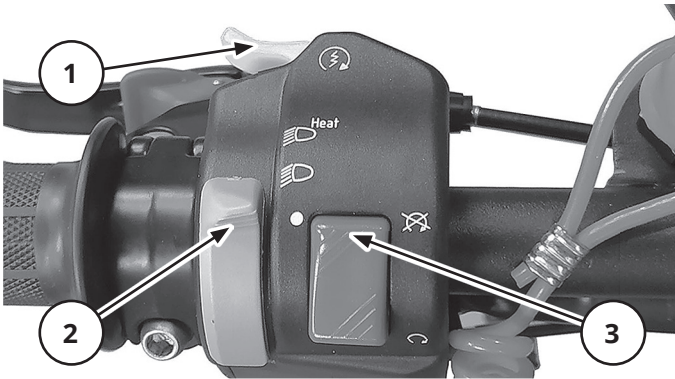


7 Basic controls



- 1. Handle grip
- 2. Parking control lever with lock
- 3. Handle switch assembly
- 4. Kill switch
- 5. DC socket for external devices
- 6. Throttle control lever

7.1 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 down for more than 10 seconds.

- 2. Headlight switch (2).

When the switch is in position the light and the DC socket are working.

When switch is in position the light and the DC socket are working.

When switch is in position the light is off. The DC socket is working.

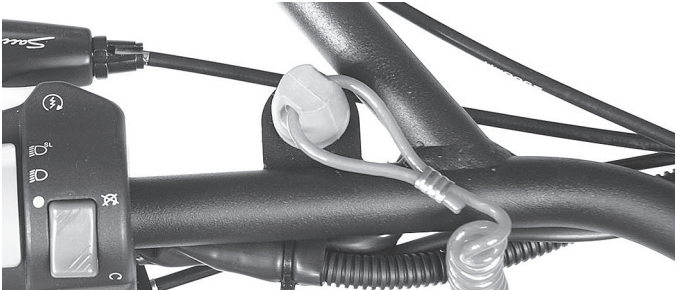
Warning
Do not turn on the headlight if the battery is not connected!

- 3. Ignition on/off switch. When the switch (3) is in position toward the operator the ignition is on. The engine can be started.

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

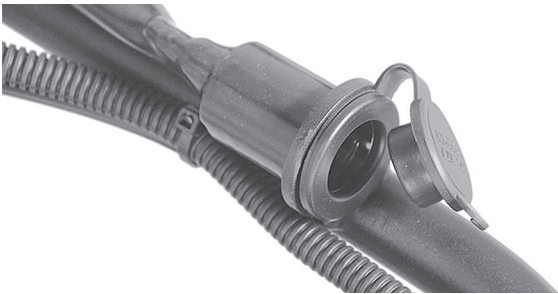
7.2 Engine security kill switch

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



The operator of the Snowdog should always operate it with safety pin installed and belt around his hand. If the operator loses control while riding Snowdog, safety pin will spring out off the button and turn off the engine. The machine will stop.

7.3 DC socket



The DC socket can be used for plugging lighting devices, radio devices, charging cellphone, etc. The socket should be used only when the engine is running.

Maximum values of parameters permitted for using the socket:

- rated voltage — 12 V DC;
- maximum power — 20 W (1.6 A).

The power is only supplied to the DC socket in mode.

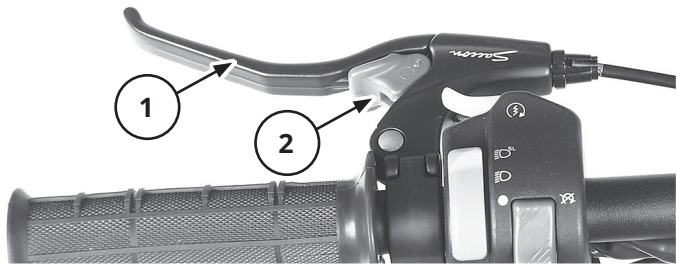
Warning
When the socket is not in use it must be covered by a cap.

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 lose charge 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 socket.

7.4 Parking brake lever



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

7.4.1 Switching the parking brake on:

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

7.4.2 Switching the parking brake off:

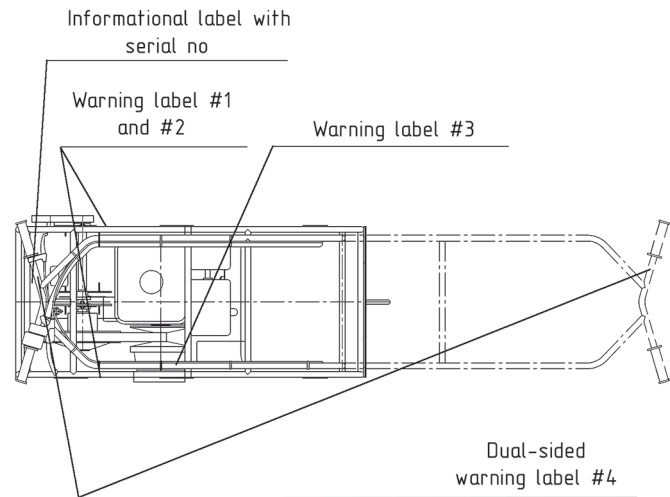
- 1. Press the lever (1).
- 2. Release the lever (1).

⚠ Warning


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

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

7.5 Informational labels displacement



Informational label with serial no.


snowdog.com


SNOWDOG LLC

Model: STANDARD Serial N°: Z9JSBAB30MC013708

Maximum permissible load, kg/lb: 50/110

Maximum permissible mass towed, kg/lb: 200/440

Warning labels #1 and #2.



MOVING PARTS CAN CRUSH AND CUT. KEEP GUARDS IN PLACE. SHUT OFF THE MACHINE BEFORE SERVICING.

PIECES MOBILES PEUVENT ECRASER ET COUPER. GARDEZ LES GRILLES DE PROTECTION EN PLACE. ARRETEZ L'APPAREIL AVANT TOUT INTERVENTION.

Warning label #3.



MOVING PARTS CAN CRUSH AND CUT. KEEP GUARDS IN PLACE. SHUT OFF THE MACHINE BEFORE SERVICING.

PIECES MOBILES PEUVENT ECRASER ET COUPER. GARDEZ LES GRILLES DE PROTECTION EN PLACE. ARRETEZ L'APPAREIL AVANT TOUT INTERVENTION.

Double sided Warning label #4.



DANGER!
DO NOT START THE ENGINE WITH HANDLEBAR FOLDED.

ATTENTION! NE DEMARREZ PAS L'APPAREIL AVEC LE GUIDON PLIE.



"APPLY PARKING BRAKE BEFORE STARTING THE ENGINE!"

APPUYEZ LE FREIN DE STATIONNEMENT AVANT DEMARRER LE MOTEUR!

8 Packaging

Snowdog delivery set contents:

- 1. Snowdog — 1 pc.
- 2. Support bracket — 1 pc.
- 3. Battery — 1 pc.
- 4. Eye bolt — 1 pc.
- 5. Owner's documentation — 1 pc.
- 6. Owner's Manual — 1 pc.
- 7. Operator's engine manual — 1 pc.



Note

Spare parts and accessories can be ordered from your dealer.

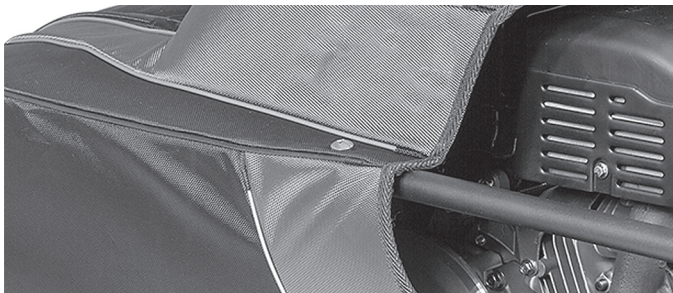
9 Snowdog setup

9.1 Installation of the cover support bracket

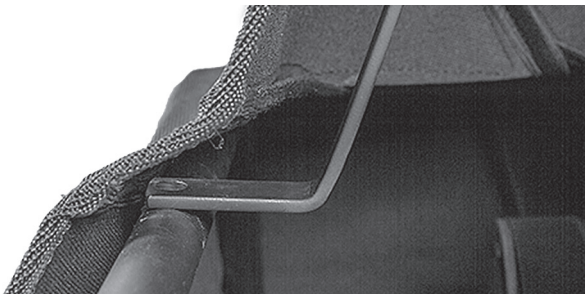
Before the first start install the cover support bracket, which is supplied with Snowdog. You will need a Philips screwdriver for that (not included).



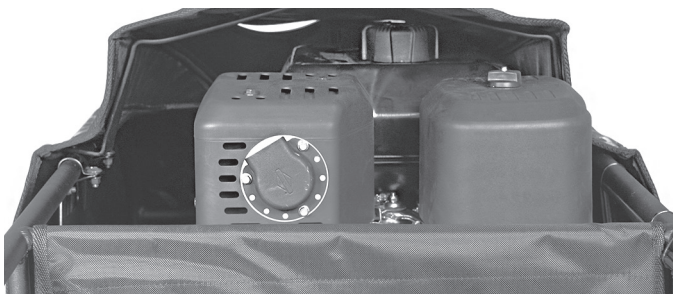
Unscrew the cover fixing screw in the top part of the chassis.



Insert the bracket under the cover, aligning the screw holes with the holes in the chassis. If necessary, bracket may be slightly bent to align the holes.



Screw the bolts, previously unscrewed from the chassis, so that the bracket would be placed between chassis and the cover, and would separate hot muffler from the cover.



Then put a fabric cover on the Snowdog. Make sure that there is a distance between cover and muffler of not less than 4 inches (100 mm). If the distance is less than 4 inches (100 mm), bend the cover bracket.

⚠ Warning

When operating the Snowdog at an ambient temperature of over 41 °F (+ 5 °C), it is necessary to open the zipper placed in the front part of the cover or remove the cover.

9.2 Battery installation

It is necessary to install and connect the battery before using the Snowdog. You will need a battery (supplied with the Snowdog), a metric wrench (not included) and a Philips screwdriver (not included).

Unscrew 2 bracket mounting bolts using metric wrench.

Install the battery, and tighten it with the bracket using the metric wrench.

Connect the electric wires to the battery, strictly observing the polarity. Wire with the red cover is connected to the cleat marked with "+" sign, wire with black cover is connected to the cleat marked with "-" sign. Tightly secure the contacts.



General view of the assembled battery is shown above.

⚠ Warning

Pay attention to the polarity when connecting the battery!

Do not turn on the headlight if the battery is not connected!

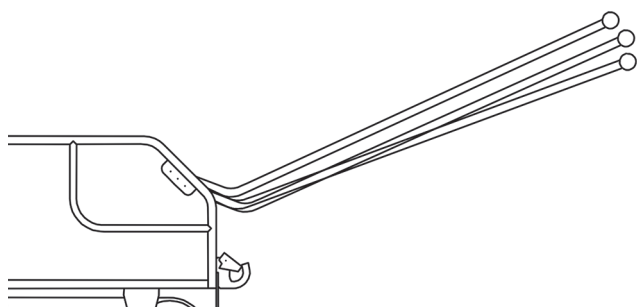
📝 Note

The voltage of the charged battery should be within the range of 12.6– 2.9 V. If the battery voltage is less than 12.6 V, it must be charged.

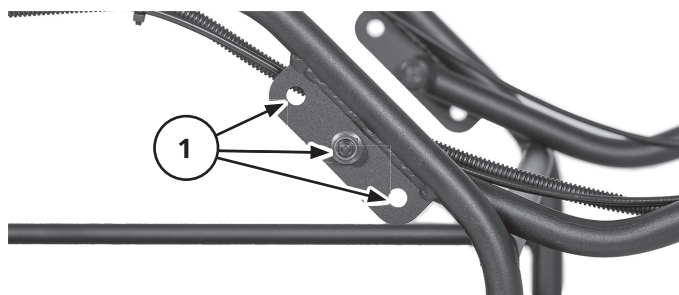
⚠ Warning

Use chargers designed for the AGM batteries. Do not use chargers with voltages above 14.6 V as they will damage the battery.

9.3 Handlebar height adjustment



To adjust the height of the handlebar you need to rearrange fixture in one of the three holes **(1)**. To raise the handlebar higher, move the mounting holes in the bottom. To lower the handlebar, move the handlebar to the upper hole. Please NOTE, both mountings of the handlebar must be on the same level.



⚠ Warning

Check fastening of wires and cables after adjusting height of handlebar. Wires and cables should not have any tension during transport or operating position of the handlebar.

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

9.4 Preparations to be made before every start

1. Move the handlebar from the transporting position into the operating position.
2. Sled or semi-trailer have to be attached to the Snowdog with a hitch.
3. Check the chain tension — the chain should be neither loose, nor tight.
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. Be sure to follow all of the procedures specified in paragraph 9.5.
9. Prepare the engine for starting as described in the engine manual.

9.5 Pre-start engine inspection

9.5.1 Checking the oil level

⚠ Caution

Check the oil level in the engine, according to the engine manual before operating.

Running the engine with insufficient oil level will cause damage and is not covered by warranty.

9.5.2 Fueling

⚠ Warning

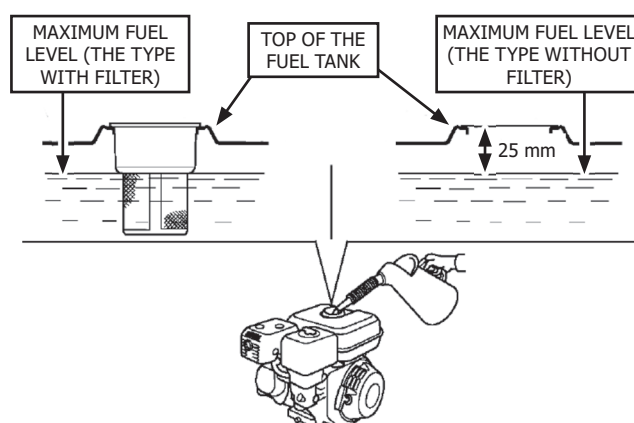
Fill the fuel tank with gas according to the engine manual.

📝 Note

- 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 only outdoors.
- 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.

Make sure that there is enough fuel in the tank.

Fill the fuel tank up to the bottom part of the filler neck, as shown in the picture below.



⚠ Warning

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

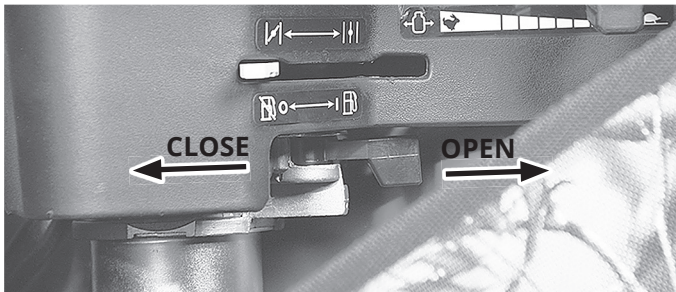
Do not spill fuel, especially on the engine and the muffler as it may cause fire and severe injuries. Wipe the spilled fuel dry.

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

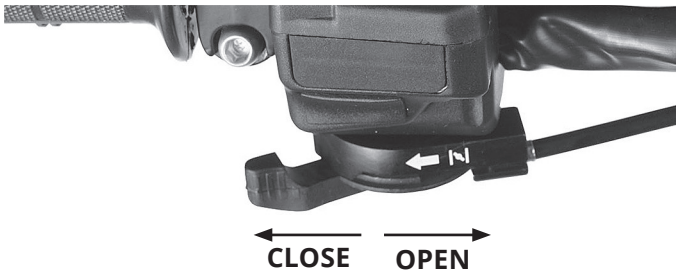
- ⚠ Warning**
If the Snowdog leans heavily or turns over, the fuel can leak through the tank cap.


9.6 Starting the engine

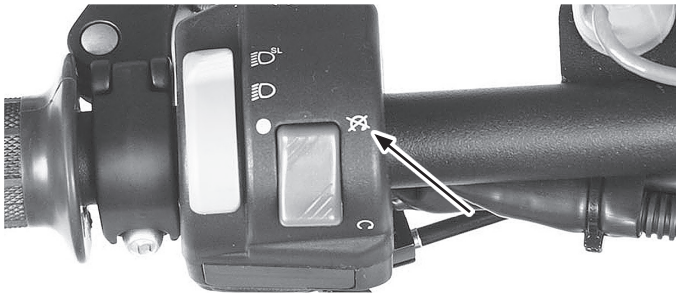
1. Open the fuel lock.



2. Close the choke on handlebar.




3. Set the ignition switch located on the handle switch assembly to "ON"  position.



4. Install the safety pin of the kill switch on the button, put the belt on your hand or attach it to your belt.

5. Check how the kill switch is installed. Kill switch which is not installed completely may lead to improper work of the engine.



WARNING!

Strap on your hand the engine security switch before starting the engine!

WARNING! ALWAYS USE THE PARKING BRAKE WHEN STARTING THE ENGINE!



- ⚠ 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.

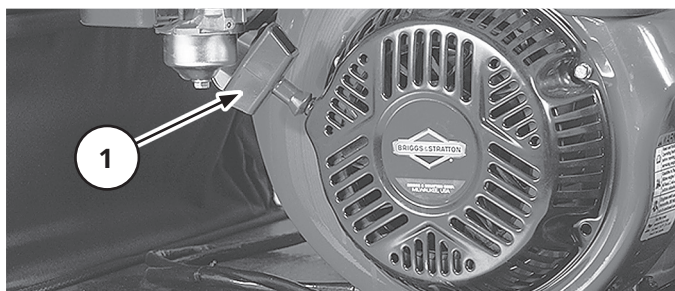
6. Start the engine. To start the engine press and hold the electric starter button (1) on the steering switch assembly. Release the button right after the engine started.

- ⚠ 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 the next attempt.



7. 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 and the engine started. After starting the engine, slowly return the handle back to its initial position, allowing for the cord to wind-up.



⚠ 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 starting.

8. After 5 failed attempts to start, pause for at least 30 seconds before the next try.
9. Let the engine run with choke closed for about a minute, and then gradually open the choke. Let the engine warm up for at least two minutes.
10. Release the parking brake from the fixed position before moving.
11. Check the hooking device and its fasteners (1).



⚠ Warning

When operating Snowdog at an ambient temperature of over 41 °F (+5 °C) it is necessary to open the zipper placed in the front part of the cover or remove the cover. Failure to do so will lead to the engine overheat and will not be covered by warranty.

10 Operating the Snowdog

10.1 Operation of the Snowdog

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.

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



When starting to move on the crumbly snow, accelerate slowly in order 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.

10.2 Stopping the engine

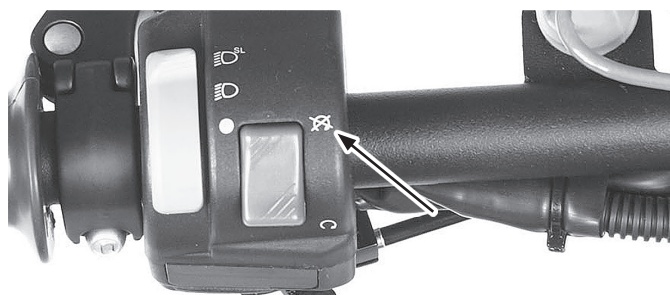
In case of emergency:

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

When the Snowdog stops, switch the parking brake on.

In normal cases:

1. Adjust the throttle lever to lower RPMs.
2. Slowly release the throttle lever.
3. Flip the ignition switch located on the steering switch assembly to "OFF" ⚡ position.



4. Turn the parking brake on.

⚠ Warning

Never use the parking brake to stop the Snowdog. This is dangerous!

5. When stopping for more than 10 minutes close the fuel lock.
6. Switch off headlight.
7. Switch off the device, which may consume power from the DC socket.

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

In case the Snowdog was riding 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.



Caution

The first 20 hours of operating the Snowdog are needed for the engine and transmission to adjust. During this period you should use Snowdog with lowest possible load. Prolonged lugging may cause transmission overload and Snowdog failure.

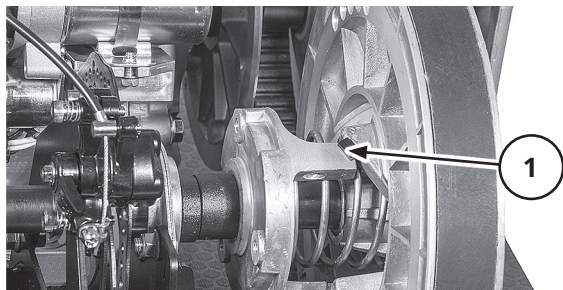
11 Maintenance

11.1 Before each trip

1. Clear snow and ice from the Snowdog.
The carburetor control levers and springs between the engine and fuel tank should be cleaned especially 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. Check the drive chain, lubricate if necessary.
5. Pay particular attention to handlebar mounting and attachment of the hitch.
6. Ensure that the throttle lever moves easily and returns to the starting position very quickly.

11.2 After each trip

1. Shut down the fuel valve.
2. Clean Snowdog from any snow and/or dirt.
3. Lube the chain with an aerosol chain spray.
4. Visually check the track tension.
5. Visually check the driver and driven shafts of the CVT, clean out of dirt if necessary. Be sure to check for plastic inserts **(1)** in CVT driver shaft. If plastic inserts are missing or worn out — insert new ones.



6. Check the wear and condition of the sliders and wheels.

11.3 After the first 5 hours of Snowdog operation

1. Lubricate the throttle and parking brake cables.
2. Lubricate the drive chain and sprockets with an aerosol chain spray.
3. Adjust throttle and parking brake arms (free motion should have a value of 0.19–0.27 in (5–7 mm).

4. Adjust the chain tension.
5. Service the engine as specified in the engine owner's manual.
6. Visually check the track tension.
7. Change the engine oil.

11.4 After each 20 hours of Snowdog running

1. Lubricate the throttle and parking brake cables.
2. Lubricate the drive chain and sprockets with an aerosol chain spray.
3. Adjust throttle and parking brake arms (free motion should have a value of 0.19–0.27 in (5–7 mm).
4. Adjust the chain tension.
5. Check the track tension as described in paragraph 11.2.
6. Change the engine oil.
7. Lubricate the bearings in supporting rollers (if available).
8. Service the engine as specified in the operating manual of the engine.

⚠ 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 lbs;
- 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.

11.5 Washing and cleaning

Before washing and cleaning, remove the cover if necessary. Wash cover, if necessary.

Do not use high pressure for washing, it may damage some parts of Snowdog.

Snowdog should be washed with warm water and car detergent. Thoroughly rinse the detergent.

Wash using a bucket with a sponge or small water pressure hose. It is necessary to ensure that water is not suffused in parts, connectors and switches, on the air filter and muffler. Do not use petrol or other solvents to clean Snowdog. Powertrain and chassis must be cleaned of twigs, leaves and other contaminants. Remove stains of oil and other fluids.

Start up and warm up the Snowdog after washing.

⚠ Warning

- Do not allow corrosive substances on the track, such as gasoline, solvents, acids, etc.

12 Storage

Snowdog should be stored in a dry ventilated room or outdoors under a canopy with a waterproof cover.

In case of a short-term storage (up to one month), perform the procedures specified in paragraph 11.2.

In case of a long-term storage (over a month) perform all the procedures specified in paragraph 13.3 and lubricate non-coated parts with a preserving agent, as well as the parts where paint-and-lacquer coating is exposed. This ensures the safe preservation of the Snowdog for up to 12 months when stored normally. For the next 12 months of storage, reproduce the steps above. To do so, follow the engine depreservation procedures specified herein, remove the preserving agent from the parts, fill the tank with gas, start the engine and let run for 5 minutes, then stop it, change the engine oil, and preserve the Snowdog for another period.

Also follow the engine manufacturer recommendations for long-term storage.

12.1 Transportation

Drain the fuel from the tank or 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.

Snowdog cannot be stacked during transportation.

Snowdog is equipped with connector for towing eye bolt (1) in the front part of the chassis on top part of the front mudflap. It is designated to mount the Snowdog during transportations, etc.

Eye bolt is provided with Snowdog.



13 Maintenance tips

13.1 Changing the oil

Change the oil in the engine in accordance with recommendations from the engine owner's manual.

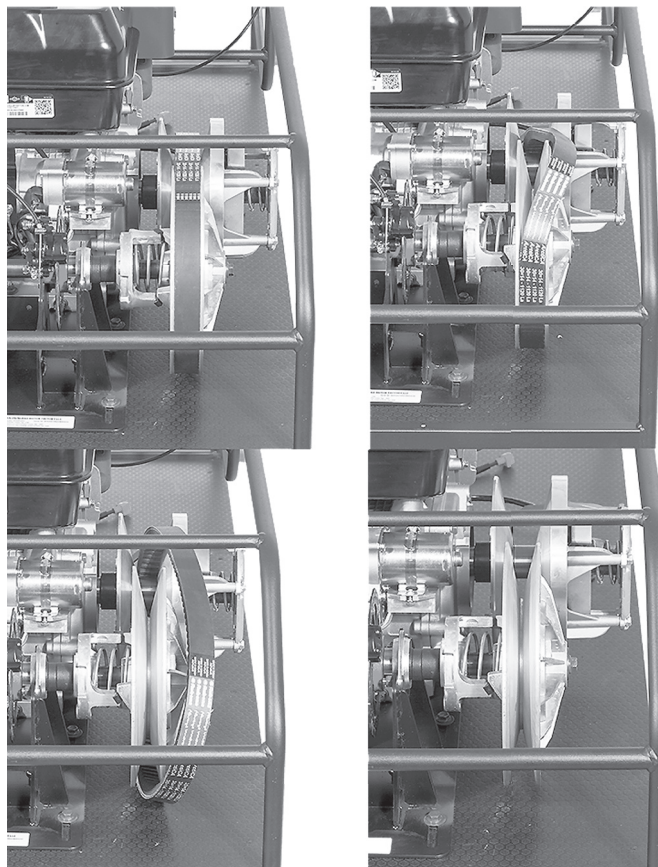
Caution

Do not touch the muffler right after the engine is stopped in order to avoid getting burned.

13.2 Replacement of CVT belt

Turn off the engine. Lock the parking brake.

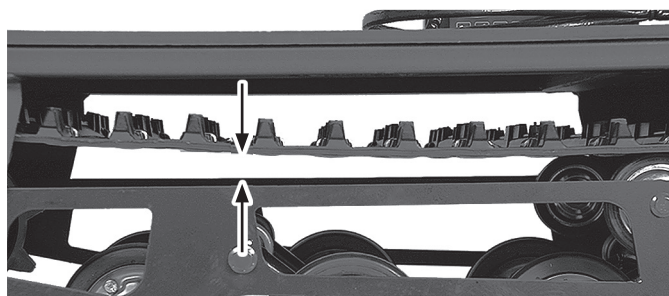
To replace the CVT belt, pull the belt off the large pulley and then from the CVT (as on picture below). Install the belt in the reverse order.



Replace the CVT belt, if it's worn out or its width is less than 1.06 in (27 mm).

13.3 Checking the track tension

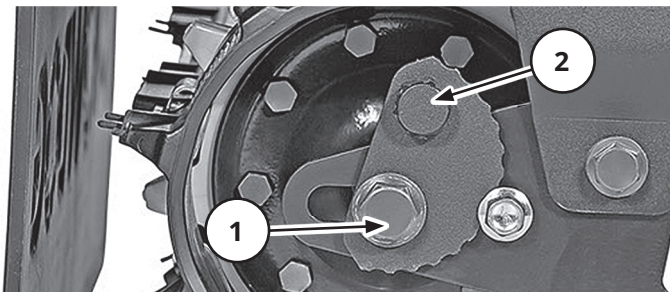
Before starting any movement check the condition and tension of the track. Overtension leads to engine power loss and causes overloads.



Place the Snowdog on a flat surface. Measure the distance between the side plate chassis and the track. It should have a value of 0.4–0.8 in (10–20 mm).

13.4 Track tensioning

Loosen the screws **(1)** on both sides of the rear mounting shaft. Turn eccentric **(2)** to adjust the tensioner axis.



Check the track tension. Tighten the bolts.

Note

If the Snowdog regularly leans to one side, increase the tension of the track on the same side. On the opposite side, loosen the tension of the track.

13.5 Track maintenance

Check the track condition and its tension after each trip. Excessive track tension can lead to power loss and engine overload.

Never operate the Snowdog with severe track damage. In case of severe track damage, you should seal it to prevent moisture from ruining the track's cord.

The cord threads should not stick out of the track's side. If they do, cut them off.

Check the track's metal clips after each trip. If bent, straighten. If a clip is missing, replace it. Operating damaged tracks leads to their rapid deterioration.

Inspect and clean the track after each trip.

When operating the Snowdog in the wet snow, clean the track more often, especially before a prolonged stop. Do not expose the track to oil and various chemicals.

Do not store the Snowdog under direct sunlight.

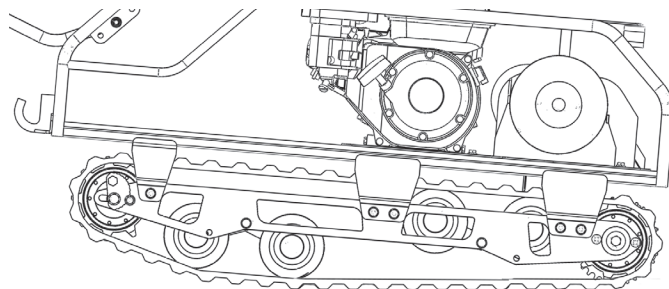
Loosen the track before storage.

We recommend storing the Snowdog in suspended position. In case of a long-term storage the track must be moved to a new position once a month.

13.6 Suspension trolleys diagnostic

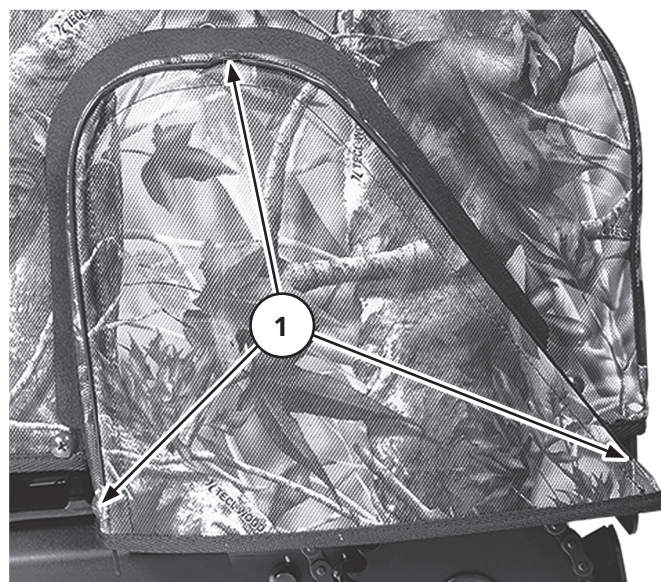
The trolley may turn upside-down if Snowdog is driven over obstacles such as logs, rocks, etc.

In this case Snowdog leans forward, loses power and speed. Do not operate Snowdog if this happens. Return the trolley into proper position.

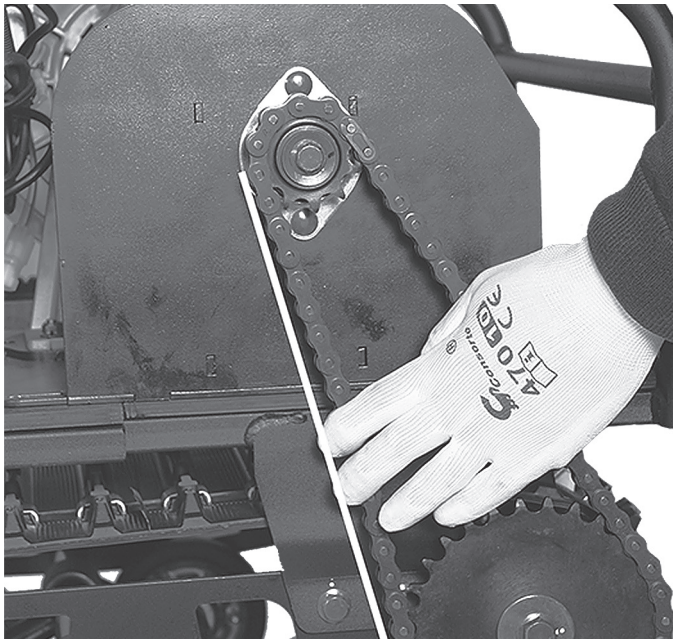


13.7 Checking the chain tension

It is necessary to remove the protection cover to check the chain tension or change the sprocket or chain. To do this, remove the three screws **(1)** that hold the chain cover and remove the cover. To install the cover do same steps in the reverse order.



Correctly tensioned chain will have a loose lift of 0.2 in (5 mm) between the sprocket.



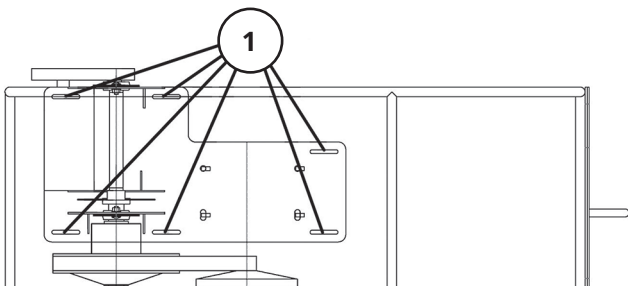
Loose lift less than 0.2 in (5 mm) will result in rapid chain stretching, and will lead to fast sprocket wear. An excessively loose chain can fall off during operation. Loose chain needs to be tightened.

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.

13.8 Adjusting the chain tension

To adjust the chain tension:

1. Loosen six screws **(1)** that mount engine and CVT brackets with Snowdog's chassis platform.



2. To loosen the chain you need to move the engine mount forward in the direction of movement. To tension the chain you need to move the engine mount with the motor back against the direction of Snowdog movement.
3. Check the chain tension. Repeat step 2 if necessary.
4. Tighten six bolts **(1)** to the engine mounts of the Snowdog chassis platform.

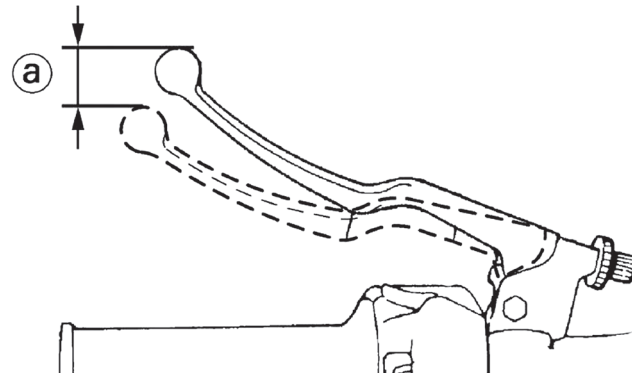
13.9 Parking brake

Parking brake consists of brake caliper with pads, brake disc, brake cable and brake lever with a lock.

13.9.1 Brake actuator. Checking, service

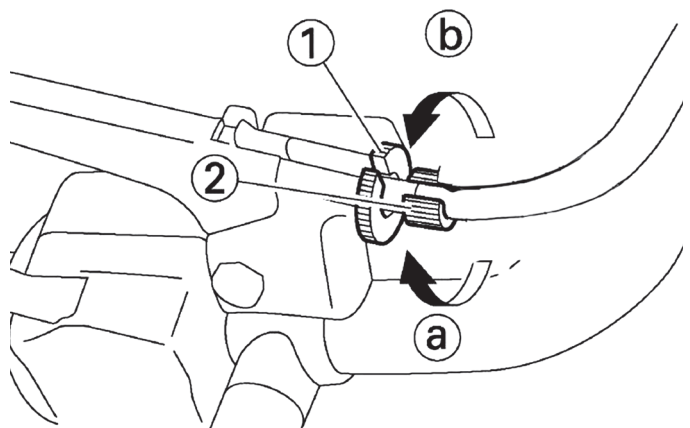
The brake is a combination of a steel disk on the driven shaft of the CVT, and a device that compresses the disc brake caliper pads. The braking force is transmitted via the brake lever cable.

The parking brake is actuated by a lever with the clamp on the left handlebar. Check the free movement of lever A. It should have a value of 0.2–0.4 in (5–10 mm).



If the braking force on the lever is not sufficient, for example, when brake pads are worn out, you need to adjust the brake lever stroke.

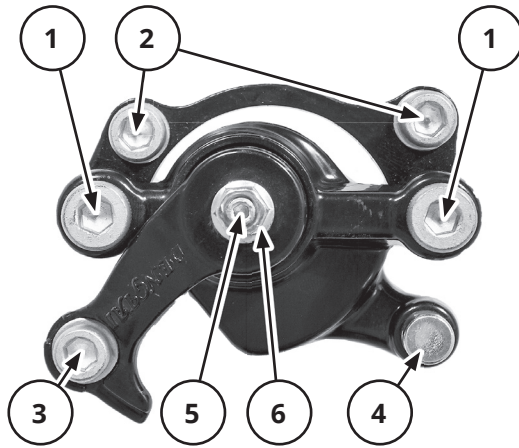
To do this, loosen the locknut **(1)** and rotate the adjusting screw **(2)** counterclockwise to pull cable so that the brake lever has a free wheeling within 0.2–0.4 in (5–10 mm).



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 free lever motion, adjust the brake caliper and check the condition of pads.

13.9.2 Brake caliper. Checking and service



Caliper parts:

1. Bolts that adjust the position of the caliper (provide parallelism of brake pads and the brake disc).
2. Fastening bolts of a caliper.
3. Brake cable fixing bolt.
4. Brake cable stop.
5. Bolt that adjusts the distance between the pads.
6. Locknut of the adjusting bolt.

Adjusting the brake caliper:

Fully loosen the tension of the brake cable on the lever, as described in paragraph 13.9.1. Ensure ease of pushing the lever and the parking brake cable and ease of returning them to the starting position.

1. If the movement of the lever is complicated, lubricate or replace the cable.
2. If the parking brake lever is in the starting position, and the cable is slack — adjust the tension of the cable on the parking brake caliper. To do this, loosen the bolt (3) and pull the cable to remove its slackness. Do not create tension in the cable. Tighten the bolt (3) and check the operation of the parking brake lever.
3. Turn the bolt (1) to adjust the position of the caliper to the brake disc. The fixed brake pad should be parallel to the brake disc. Adjust minimum possible distance between the fixed brake pad and the brake disc. The brake pad is allowed to graze on the brake disc if it is not obstructing the disk's rotation.

Loosen the locknut (6). Tighten the bolt (5) until the moment of touching of the movable brake pads to the brake disc. Holding the bolt (5), tighten the locknut (6). Check the rotation of the brake disk. The brake pads are allowed to graze on the brake disk if they are not obstructing the disk's rotation.

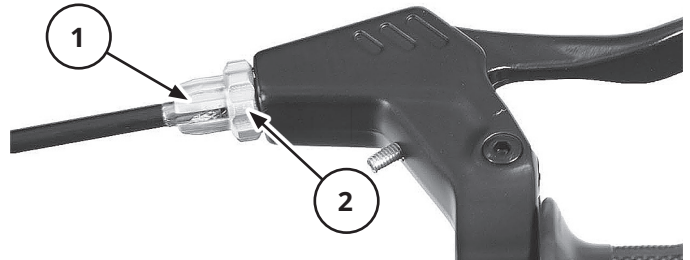
4. Check the movement of the parking brake lever. If necessary, adjust the tension of the cable as described in paragraph 13.9.1.
5. Check the condition of the brake pads. Limit the working thickness of the brake pads' material to 0,004 in (1 mm).

If the brake pads are worn, replace the brake caliper.

If the brake pads are not worn out, adjust the brake caliper as described in paragraph 13.9.2, subparagraph 2.

13.10 Adjusting the throttle

To adjust the throttle lever, loosen the locknut (2) and rotate the adjusting screw (1) counterclockwise. Pull the rope so that the throttle has a free running within 0,2-0,3 in (5-7 mm).



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

14 Manufacturer's warranty Snowdog

14.1 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).

- 14.1.1 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.
- 14.1.2 Drive chain, sprockets, driver and driven pulleys of the CVT, headlight and protective case, cover zipper, sliders will be covered for a period of 30 days to be free of defects. Abuse and neglect are not covered under this warranty.
- 14.1.3 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.

14.2 The warranty does not cover:

- 14.2.1 Engine warranties are the responsibility of the manufacturer. Contact the authorized dealer for repairs.
- 14.2.2 Consumables and parts subject to wear and overcharge depending on the style, intensity and conditions of operation, namely: supporting wheels, drive wheels, suspension springs, slide-ways, 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.
- 14.2.3 Any damage done to the frame and sub-frame, provided there are no holes and/or voids in the material and welding seams.
- 14.2.4 Any Snowdog damage resulting from water ingestion: riding through water, or contamination of parts and components (if they haven't been cleansed in timely manner), or hitting an obstacle.
- 14.2.5 Snowdog serviced by an un-authorized dealer or using non OEM parts.
- 14.2.6 Any damages done to the plastic, glass, rubber, paper, and cloth parts.
- 14.2.7 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.
- 14.2.8 Snowdogs, upgraded with parts which were not approved by the Manufacturer's official representative (including different-size sprockets and chain), or vehicles with altered serial number and engine number.

- 14.2.9 Any damages resulting from a collision (if they were not caused by technical faults).
- 14.2.10 Snowdog used in sporting events, competitive driving, for commercial purposes, as well as the vehicles with damages resulting from an overcharge.
- 14.2.11 Snowdog which failed to pass scheduled technical maintenance.
- 14.2.12 Any damages resulting from incomplete or improper care (disregard of daily or periodic technical maintenance).
- 14.2.13 Any Snowdog defects, which can be eliminated by adjustment (track tension and position adjustments, chain tension adjustment etc.).
- 14.2.14 Any side sounds, noises, squeaks, vibrations that do not affect the overall performance and efficiency of the Snowdog.
- 14.2.15 Any parts and components damaged as a result of normal wear and tear.
- 14.2.16 Any additionally installed equipment and accessories (including heated handles, headlight, winch, etc.)
- 14.2.17 Slight leakage of oil or other fluids through the insulation causing no change in their level.
- 14.2.18 Consequences arising from operating the faulty Snowdog.
- 14.2.19 Any Snowdog misuse. The defects that appeared as a result of such misuse are to be paid by the Snowdog end user.
- 14.2.20 Expenses incurred by the owner associated with the breakdown of the Snowdog, such as:
 - technical assistance;
 - Snowdog towaway and transportation;
 - compensation for the inconvenience and commercial losses;
 - leasing and purchasing another vehicles.

14.3 You must at your expense take the Snowdog and proof of purchase to any authorized Snowdog dealer in 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 14.2 are not covered by this warranty.

14.4 Seller details

Seller name:	
Seller address:	
Phone:	Date of purchase:

Buyer details

Name:	
Address:	
Phone:	Email:

Snowdog details

Model:
Serial number:
Engine number:

14.5 Buyer hereby confirms that the Seller:

- has transferred the Snowdog and owner’s manual to the Buyer;
- has explained the Snowdog operating rules, has explained the provisions of the conditions of the manufacturer’s warranty, the necessity of timely technical service.

The Buyer has no claims regarding the Snowdog exterior condition.

Buyer

Seller

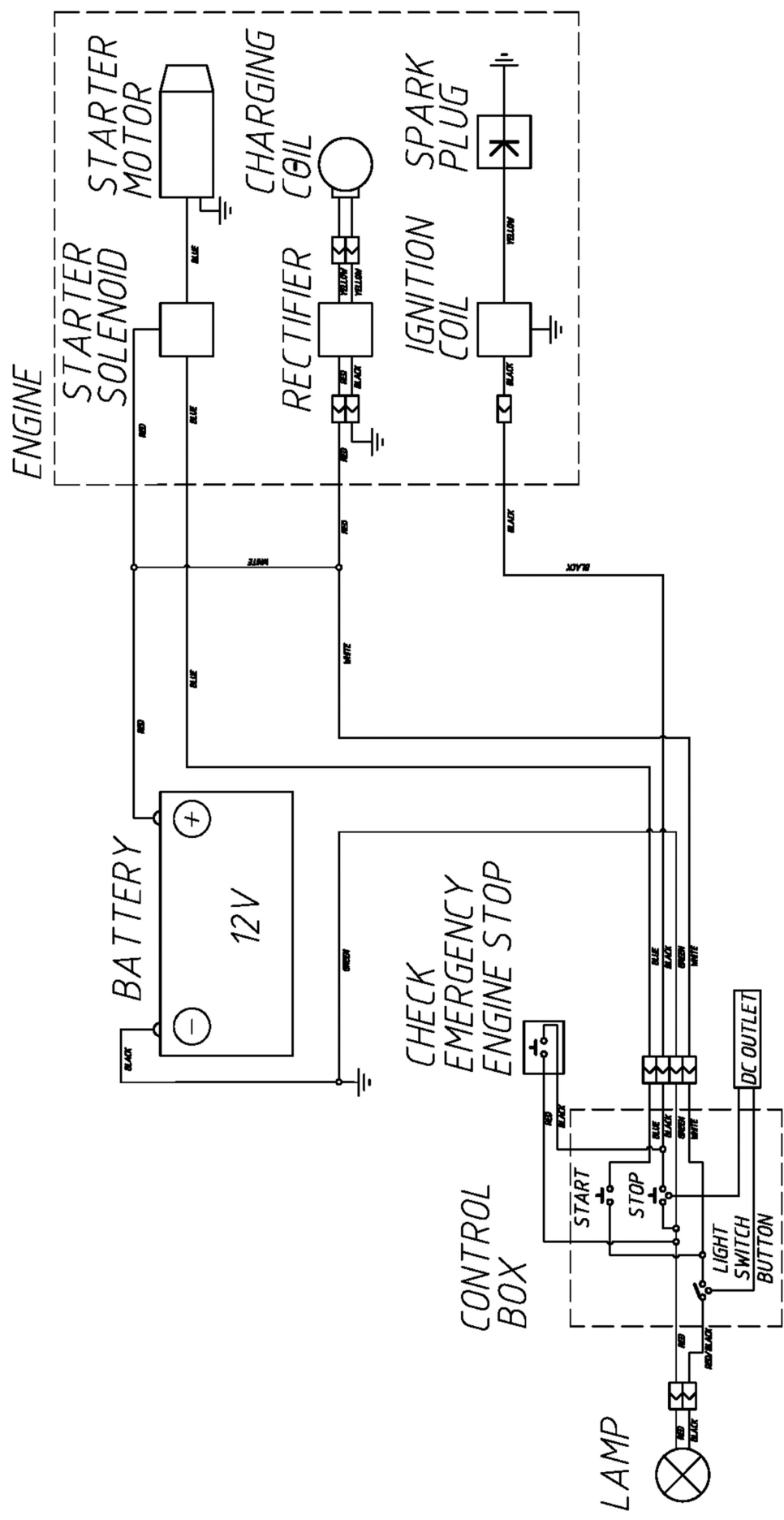
Date «____» _____20____.

Dealer stamp

14.6 Service list

<p>Service ticket Maintenance services</p> <p>Authorized dealer stamp</p> <p>Date «____» _____20____.</p> <p>Signature _____</p>	<p>Service ticket Maintenance services</p> <p>Authorized dealer stamp</p> <p>Date «____» _____20____.</p> <p>Signature _____</p>	<p>Service ticket Maintenance services</p> <p>Authorized dealer stamp</p> <p>Date «____» _____20____.</p> <p>Signature _____</p>
<p>Service ticket Maintenance services</p> <p>Authorized dealer stamp</p> <p>Date «____» _____20____.</p> <p>Signature _____</p>	<p>Service ticket Maintenance services</p> <p>Authorized dealer stamp</p> <p>Date «____» _____20____.</p> <p>Signature _____</p>	<p>Service ticket Maintenance services</p> <p>Authorized dealer stamp</p> <p>Date «____» _____20____.</p> <p>Signature _____</p>

15 Snowdog general electric circuit scheme



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www.snowdog.com

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