SEGWAY

SEGWAY TECHNOLOGY CO., LTD.

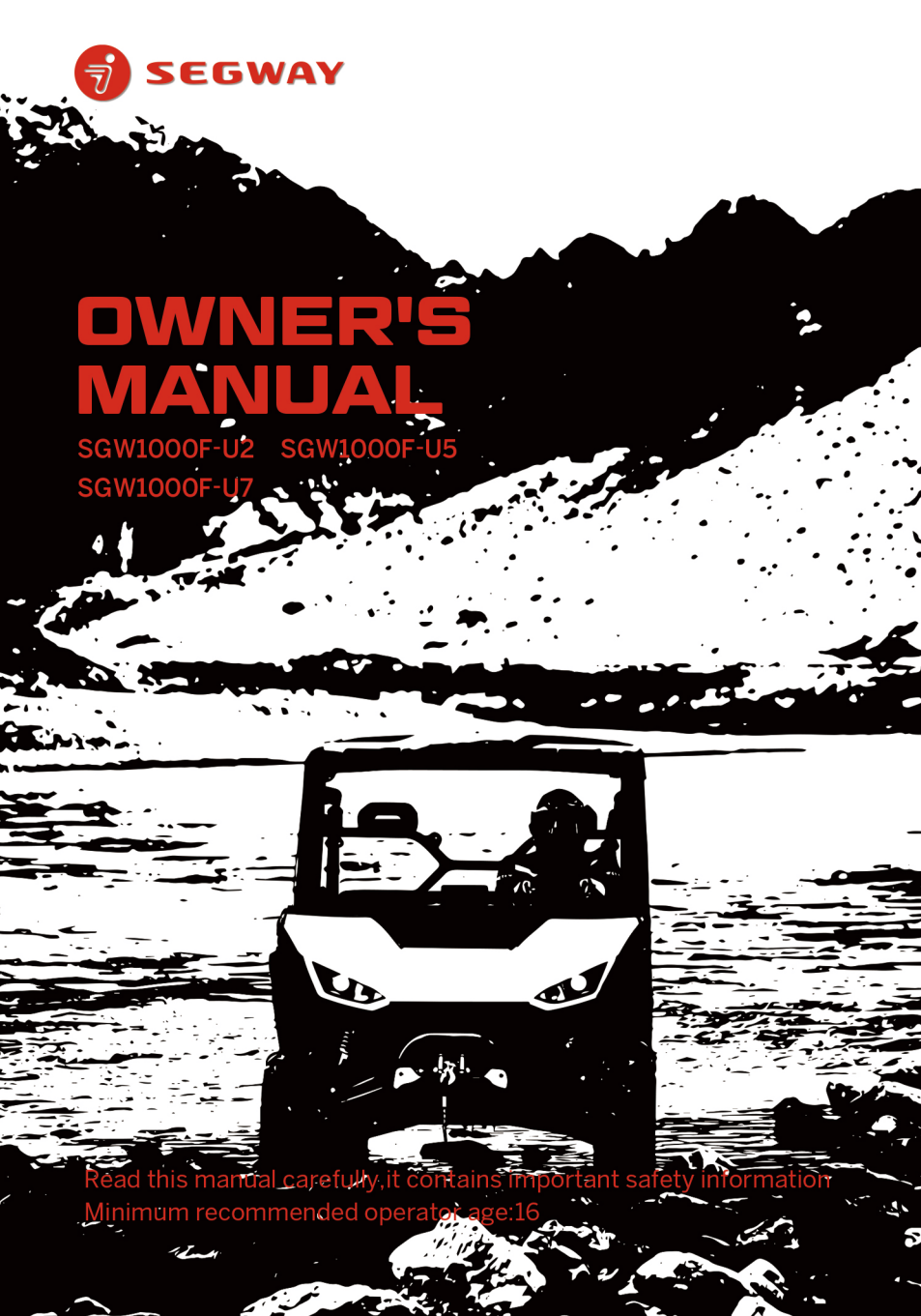
powersports.segway.com

Vision：20260615 V1.1
U03-L200002-LEN-01

SEGWAY

OWNER'S MANUAL

SGW1000F-U2 SGW1000F-U5
SGW1000F-U7



Read this manual carefully,it contains important safety information
Minimum recommended operator age:16

WELCOME

Thank you for buying this Segway. Segway Powersports on-road vehicles will bring you a new driving experience.

For your driving safety, read this manual before riding. This manual contains a large number of safety instructions, operation instructions, maintenance instructions and safety warnings.

Reading of this manual will help you quickly understand the vehicle and help you with safe driving practices.

Periodic maintenance procedures are included in this manual and should be performed regularly to keep your vehicle running safely.

⚠ WARNING

Read, understand, and follow all of the instructions and safety precautions in this manual and all product labels.
Failure to follow the safety precautions could result in serious injury or death.

Segway Mobility App

IMPORTANT NOTICE

This vehicle is designed and manufactured for on-road use and complies with all applicable on-road noise, vibration and emission regulations.

Before driving the vehicle, please understand the local laws and regulations, choose the allowed road for driving and, abide by the local traffic regulations.

This manual is applicable to the Fugleman fuel series and describes all equipment including optional components. Therefore, some of the optional equipment described in the manual may be not installed on your vehicle.

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Copyright 2020 Segway Powersports Inc. All information contained within this publication is based on the latest product information at the time of publication. Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. Depictions and/or procedures in this publication are intended for reference use only. No liability can be accepted for omissions or inaccuracies. Any reprinting or reuse of the depictions and/or procedures contained within, whether whole or in part, is expressly prohibited.

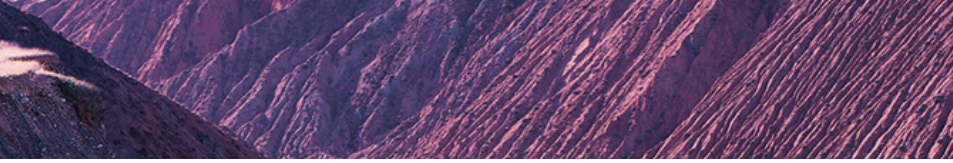
If your vehicle needs any service and repair matters, please contact your dealer to provide service.

Visit **http://powersports.segway.com** for a list of dealers and service locations.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING VEHICLE MODELS:

SINGLE CAB VEHICLE: SGW1000F-U2、SGW1000F-U7

CREW CAB VEHICLE: SGW1000F-U5



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INTRODUCTION
BEFORE YOU RIDE

This SEGWAY vehicle is an on-road vehicle. Familiarize yourself with all laws and regulations concerning the operation of this vehicle in your area.

⚠ WARNING

Failure to adhere the warnings and safety precautions contained in this manual will result in severe injury or death. Your SEGWAY vehicle is not toy and it can be hazardous to operate. This vehicle handles differently than cars, trucks or on-road vehicles. A collision or rollover can occur quickly, even during routine maneuvers like turning, driving on hills or over obstacles if you fail to take proper precautions.

- Read the owner's manual that came with your vehicle.
- Understand all safety warnings, precautions and operating procedures before operating the vehicle.
- Keep this manual with the vehicle.
- Never operate this vehicle without proper instruction.
- Take an authorized training course. See the Safety Training section for more information.
- This vehicle is an **ADULT VEHICLE ONLY**. You **MUST** be at least age 16 and have a valid driver's license to operate this vehicle.
- Always keep hands, feet and all other body parts inside the vehicle at all times.

- Always wear a helmet, eye protection, gloves, long-sleeve shirt, long pants and over-the-ankle boots.
- Never operate this vehicle under the influence of drugs or alcohol, as these conditions impair judgement and reduce the operator's ability to react.
- Complete the new operator driving procedures outlined this manual. Never allow a guest to operate this vehicle until the guest has completed the new operator driving procedures.
- Never permit a guest to operate this vehicle unless the guest has has completed a safety training, reviewed the owner's manual and all safety labels.

The meaning of these signs:

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

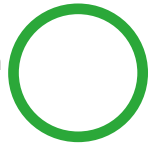
CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

IMPORTANT

IMPORTANT provides key reminders during disassembly, assembly, and inspection of components.

The Prohibition Safety Sign indicates an action NOT to take in order to avoid a hazard. 	The Mandatory Action Sign indicates an action that NEEDS to be taken to avoid a hazard. 



SAFETY INTRODUCTION

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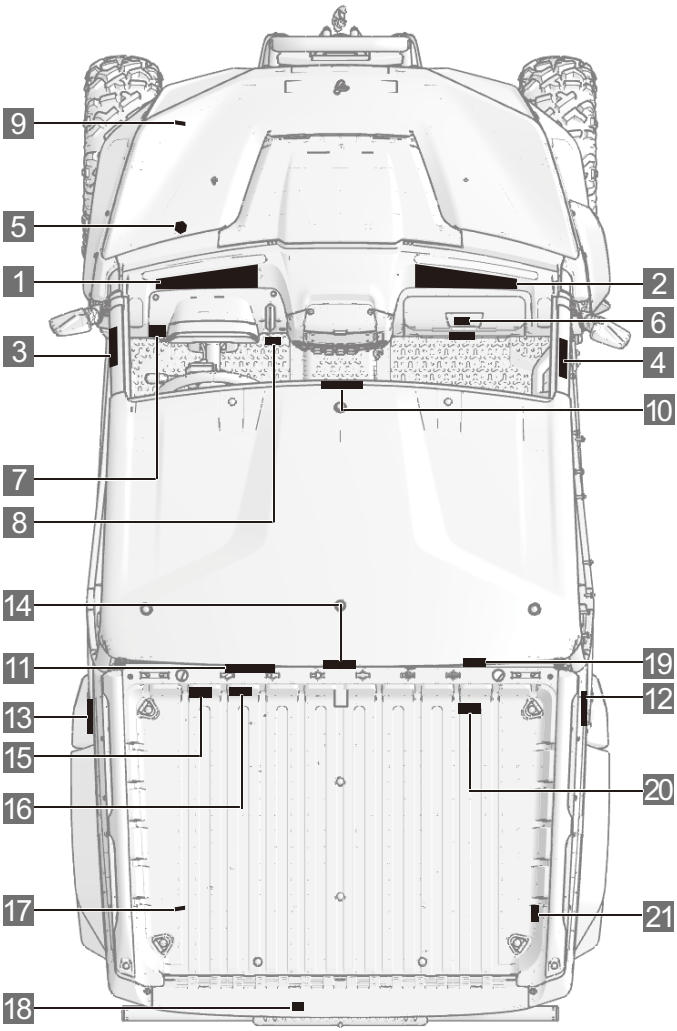
SEGWAY

Failure to follow the warnings and safety precautions in this manual may result in serious injury or death. It can be dangerous to operate an on-road vehicle and is driven differently from other vehicles, such as motorcycles and automobiles. If proper precautions are not taken, a collision or rolled-over may occur during normal maneuvers such as turning, climbing, or overcoming obstacles. Understand all safety warnings, precautions and operating procedures before operating the vehicle. Bring this manual with you.

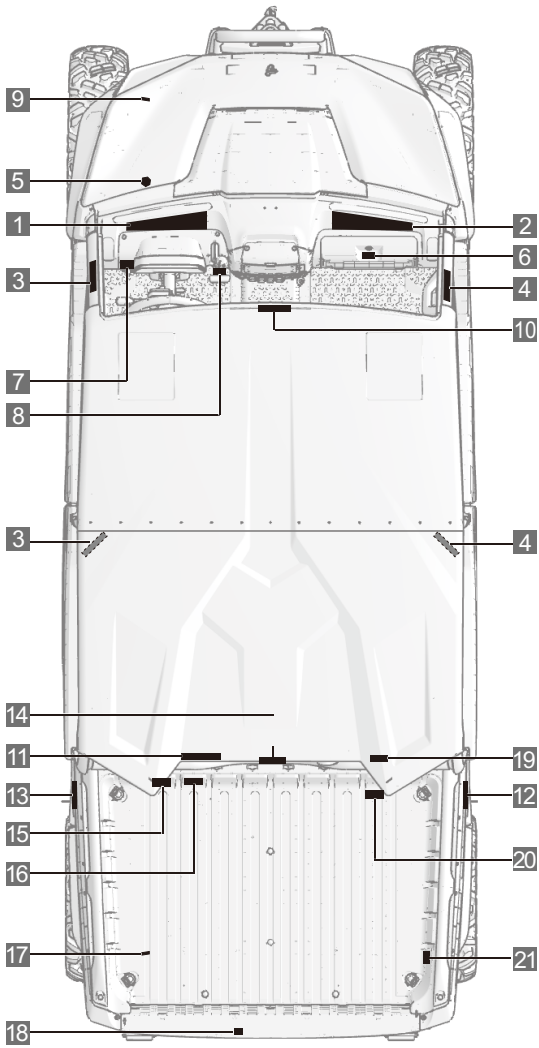
WARNING LABELS

Warning labels have been placed on the vehicle for your protection. Read and follow the instructions on the labels carefully. If any of the labels depicted in this manual differ from the labels on your vehicle, always read and follow the instructions on the vehicle. If any label becomes illegible or comes off, contact Segway Powersports to obtain a replacement.

SGW1000F-U2/U7



SGW1000F-U5



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SGW1000F-U2/U7



SGW1000F-U5

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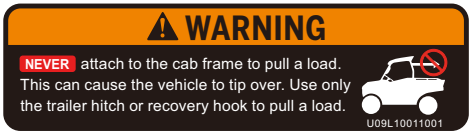
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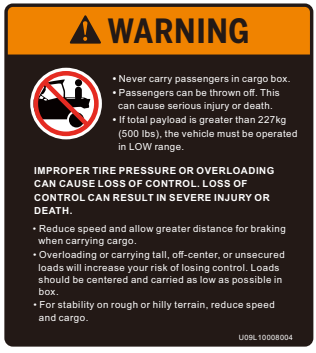
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SGW1000F-U2/U7



SGW1000F-U5

16

⚠ WARNING

Improper tire pressure or overloading can cause loss of control.
Loss of control can result in severe injury or death.

- Cold tire pressure:
  Front: **15.0** psi (**103** kPa)
  Rear: **16.0** psi (**110** kPa)
- MAXIMUM WEIGHT CAPACITY:
  680 kg. (**1500** lbs)
- MAXIMUM CARGO BOX LOAD:
  350 kg. (**770** lbs)

U09L10010004

SGW1000F-U2/U7

⚠ WARNING

**Improper tire pressure or overloading can cause loss of control.
Loss of control can result in severe injury or death.**

- **Cold tire pressure:**

TIRE SIZE	27"	30"
Front(PSI/kPa)	15.0 (103)	10.0 (70)
Rear(PSI/kPa)	17.4 (120)	16.0 (110)

MAXIMUM WEIGHT CAPACITY: **1279** lbs. (**580** kg)
MAXIMUM CARGO BOX LOAD: **452** lbs. (**205** kg)

U03-L100011-LEN-00

SGW1000F-U5

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⚠ WARNING

Air Filter Inlet Grill. **DO NOT COVER!**

U09L10012001

18

⚠ WARNING

Improperly loading a trailer may cause loss of control. Evenly balance the load.

- Maximum unbraked towing mass **400 kg (882 lb)**
- Maximum unbraked tongue mass **100 kg (220 lb)**
- Maximum inertiabraked towing mass **860 kg (1896 lb)**
- Maximum inertiabraked tongue mass **100 kg (220 lb)**

U09-L100054-000-00

20

⚠ CAUTION

The air filter must be maintained in accordance with the requirements of the Segway Owner's Manual, otherwise it may seriously damage your engine.

U09L10032001

21

⚠ WARNING

Never carry passengers in cargo box or on tailgate. Max weight on tailgate during loading is **90kg (200lb)**.



MAX
90kg/200lb

U09L10009004

SGW1000F-U2/U7

⚠ WARNING

Never carry passengers in cargo box or on tailgate. Max weight on tailgate during loading is **200lbs (90kg)**.



MAX
200lbs/90kg

U09L10009001

SGW1000F-U5

SEVERE INJURY OR DEATH

Can result if you do not follow these instructions:

- The minimum recommended driving age for this vehicle is 16 years.
- Never operate this vehicle without wearing an approved motorcycle helmet that fits properly.
- Wear eye protection (goggle or a face shield), gloves, over-the-ankle boots, long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating this vehicle.
- Never attempt jumps or other stunts.
- Never operate at speeds too fast for your skills or the conditions. Always go at a speed that is proper for the terrain, visibility, operating conditions, and your experience.
- Always inspect your vehicle each time you use it to be sure it is in safe operating condition.
- Never operate on excessively rough, slippery, or loose terrain until you have learned and practiced the skills necessary to control the vehicle on such terrain. Always be cautious on these kinds of terrain.
- Always follow the inspection and maintenance procedures as well as the schedules described in this manual.
- Never operate on hills that are slippery or ones where you will not be able to see safely far enough ahead of you. Never go over the top of a hill at speed if you cannot see what is on other side.
- Always keep both hands, arms, feet, and legs inside the vehicle at all times during operation. Keep your feet on the

floorboard. Never hold onto the enclosure, otherwise, you could be injured.

- Always keep both hands on the steering wheel when driving.
- Always go slowly and be careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when driving the vehicle.
- Never wrap your thumbs and fingers around the steering wheel. This is particularly important when driving in rough terrain. The front wheels will move right and left as they respond to the terrain, and this movement will be felt in the steering wheel. A sudden jolt could wrench the steering wheel around, and your thumbs or fingers could be injured if they are in the way of the steering wheel spokes.
- Never turn at excessive speed. Practice turning at slow speeds before attempting to turn at faster speeds. Do not attempt turns on steep inclines.
- Always follow proper procedures for going uphill. If you lose control and cannot continue up a hill, back down the hill with the engine in reverse gear.
- Never operate the vehicle in fast flowing water or water deeper than the floorboards on this model. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply the brake several times to let friction dry out the linings.
- Always be sure there are no obstacles or people are behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly.
- Always check terrain before going down hills. Go as slowly as possible. Never go down a hill at high speed.
- Always check for obstacles before operating in a new area.

- Do not brake abruptly when carrying loads in the cargo bed.
- Always use the size and type of tires specified in this manual.
- Always maintain proper tire pressure as described in this manual.
- Never exceed the stated cargo load capacity. Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation. Reduce your speed and follow the instructions in this manual for carrying cargo or pulling a trailer. Allow a greater distance for braking.
- Brake discs can be over heated after continuous braking. Allow brake disc to cool before servicing.
- Avoid the risks related to contact with hot surfaces, including residual risks such as filling oil or coolant in hot engines or transmissions.
- Exhaust system components are very hot during and after use of the vehicle. Hot components can cause burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system.
- Use caution when traveling through tall grass, especially dry grass. Always inspect the underside of the vehicle and areas near the exhaust system after driving through tall grass, weeds, brush, and other tall ground cover. Promptly remove any grass or debris clinging to the vehicle.

IMPORTANT SAFETY INFORMATION

READING THE MANUAL

⚠ WARNING

Driving an vehicle improperly increases the risk of accidents. The driver must know how to drive the vehicle correctly in different situations and on different terrain.

Before driving the vehicle, all drivers must complete the required driving safety training. Please ensure that each driver has read this manual and all product warning labels and has passed the safety training course. Otherwise, the vehicle will not be allowed to drive.



SAFE DRIVING AGE

⚠ WARNING

The minimum recommended driving age for this vehicle is 16 years. Children under the age of 16 must not drive this vehicle. Not to drive the vehicle without proper driving training. Training courses are required. Please ensure that each driver has read this manual and all product labels and has completed a safety training course.



RIDING EQUIPMENT

⚠ WARNING

For your safety,we strongly recommend that you always wear an approved motorcycle,eye protection,boots,gloves,long pants,and a long-sleeved shirt or jacket whenever you ride.

Although complete protection is not possible,wearing proper gear can reduce the chance of injury when you ride.

Helmet

Wearing a helmet can prevent head injuries. At all times, you must wear a helmet that meets basic safety standards when driving. Both U.S. and Canadian qualified helmets bear a U. S. Department of Transportation label. ECE 22.05 marks are available in Europe, Asia and Oceania. The ECE mark consists of a circle around the letter E, followed by the approved area codes for different countries. The approval number and serial number are also displayed in the label.

Additional Riding Gear

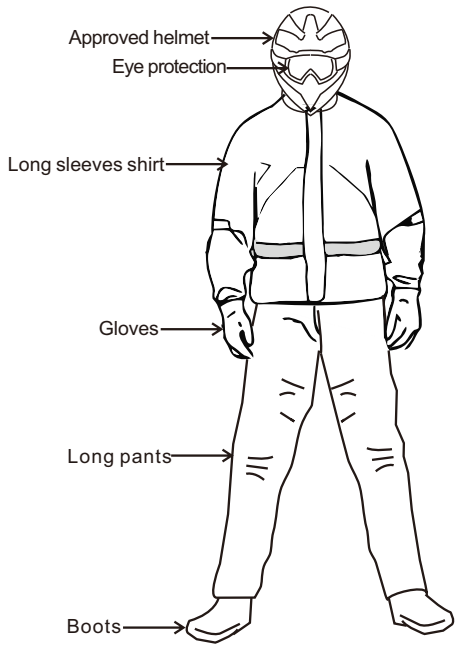
Sturdy on-road motorcycle boots to help protect your feet, ankles, andlower legs.

On-road motorcycle gloves to help protect your hands.

It is recommended to wear riding pants with knee and hip pads,a riding jersey with padded elbows and, a chest/shoulder protector.

⚠ WARNING

Driving vehicle after drinking or taking drugs may adversely affect a driver's judgment, reaction time, balance, and feelings. Do not drink alcohol or take drugs before or during driving.



USING ALCOHOL OR DRUGS

⚠ WARNING

Operating this vehicle after consuming alcohol or drugs could adversely affect operator judgment, reaction time, balance and perception.

Never consume alcohol or drugs before or while operating this vehicle.



VEHICLE MODIFICATION

⚠ WARNING

We strongly recommend that consumers do not attempt to increase vehicle speed or use any equipment that increases the power of the vehicle. If any equipment is added to the vehicle, or if any modifications are made to the vehicle to increase the vehicle speed or power, the all-terrain vehicle warranty is terminated. The addition of certain parts may change the handling of the vehicle, including (but not limited to) mowers, sledges, tires, sprayers, or large luggage racks.



PASSENGERS

⚠ WARNING

Do not carry passengers unless you have operated the vehicle for at least two hours and have completed the new operator driving instructions outlined on page 70. Passengers must always sit in the passenger seat with the seat belt secured. Carrying more than one passenger in a two-seater vehicle affects the operator's ability to operate and operate control, increasing the risk of loss of control and accidents or rollovers.



CONTACT WITH EXHAUST

⚠ WARNING

Engine exhaust is toxic and can cause loss of consciousness or death in a short time. Do not start or run a motor in a closed space. The engine exhaust of this product contains chemicals that cause cancer, birth defects or other reproductive damage, and you can only drive it outside the room or in a well-ventilated place.



SEAT BELTS

Riding in this vehicle without wearing the seat belt may increase the risk of serious injury in the event of rollover, loss of control, other accidents, or sudden stop. Seat belts may reduce the severity of injury in these circumstances. The operator must wear the seat belt at all times.



LOADING ON THE VEHICLE

The weight of cargo and passengers affects the running and stability of the vehicle. For your own safety and the safety of others, think carefully about how to safely operate the vehicle when loaded with passengers and cargo. Follow the instructions in this manual for loading, tire pressure, gear selection and speed.

- The maximum weight capacity of the vehicle is listed in the instruction section of this manual and on the vehicle label. As more passenger weight is added, the cargo weight may need to be reduced accordingly. Do not exceed the vehicle's weight capacity.
- Recommended tire pressures are listed in the instruction section of this manual and on the vehicle label.

Always follow the following guidelines:

Under these conditions:	Do all of these steps:
Operator and/or cargo exceeding half of the maximum weight capacity	1. Slow down. 2. Verify tire pressure. 3. Use extra caution when operating
Operating in rough terrain	
Operating over obstacles	
Climbing	
Traction	

NO PASSENGERS IN THE CARGO BOX

Passengers in the cargo box may cause the vehicle fall over or collide, which may cause injury or more serious accidents. Never let passengers in the cargo box when operating the vehicle. Passengers must be seated in passenger seats with fixed seat belts.



OPERATING ON PAVEMENT

The vehicle's tires are designed for on-road use only, not for use on pavement. Operating this vehicle on paved roads (including sidewalks, paths, parking lots and driveways) may adversely affect the handling of the vehicle and may increase the risk of loss of control and accidents or rollovers. Avoid operating the vehicle on pavement. If it's unavoidable, drive slowly and avoid sudden turns or stops.

OPERATING ON PUBLIC ROADS

Operating this vehicle on public streets, highways or highway could result in a collision with another vehicle.

OPERATING AT EXCESSIVE SPEED

Operating this vehicle at excessive speeds increases the operator's risk of losing control. Always operate at a speed that's appropriate for terrain, the visibility, operating conditions and your skills and experience.

TURNING IMPROPERLY

Turning improperly could cause loss of traction, loss of control, accidents or rollover. Always follow proper procedures for turning as described in this owner's manual.

Avoid sharp turns. Never turn while applying heavy throttle. Never make abrupt steering maneuvers. Practice turning at slow speeds before attempting to turn at faster speed.

JUMPS AND STUNTS

Exhibition driving increases the risk of an accident or rollover. DO NOT do power slides，"donuts"， jumps or other driving stunts. Avoid exhibition driving.

IMPROPER HILL CLIMBING

Improper hill climbing could cause loss of control or rollover. Use extra caution when operating on hills. Always follow proper procedures for hill climbing as described in this owner's manual.

DESCENDING HILLS IMPROPERLY

Improper descending a hill could cause loss of control or rollover. Always follow proper procedures for traveling down hills as described in this owner's manual.

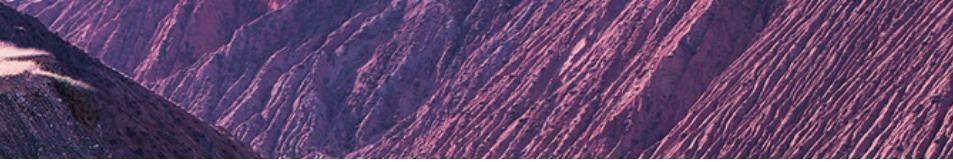
CROSSING HILLSIDES

Driving on a sidehill is not recommended. Improper operation could cause the loss of control or rollover. Avoid crossing the side of any hill unless absolutely necessary. If crossing a hillside is unavoidable, always follow proper procedures as described in this owner's manual.

FUEL SAFETY

Gasoline is very flammable under certain conditions

- You must be extremely careful when handling gasoline.
- When refueling, the engine must be shut off and must be done outdoors or in a well-ventilated area.
- No smoking, no open flames or sparks at or near the refueling or gasoline storage location.
- Do not overflow when refueling. Do not fill the tank to the filler neck.
- If gasoline gets on your skin or clothes, wash them with soap and water immediately and change clothes.



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VEHICLE ACTIVATION

This vehicle is equipped with vehicle T-BOX system for you. T-BOX is used to communicate with background system and mobile APP, so as to obtain vehicle information and control vehicle with mobile APP. This is an optional system. In order to make you quickly familiar with and use the system, please read the user's manual carefully, understand the relevant operation and use information.

NOTICE

If equipped with T-BOX, The new vehicle must be activated by binding the Segway Mobility APP before the first time use. If the T-Box is not activated, the vehicle speed will be limited to 30Km/h.

First, search and download the "Segway Mobility" APP from the "Apple® App Store®" or "Google Play® store" on your mobile phone, and activate the vehicle through the APP.

After the successful installation of the APP, the vehicle will be registered and activated. Firstly, find the VIN code on the vehicle and register on the APP. The registration procedure is as follows:

1. Power on the vehicle with the mechanical key.

Input or scan vehicle VIN code according to APP registration prompts, and step on the vehicle brake at the same time. Note: The vehicle identification code may not be scanned due to the influence of light. You can try to enter the VIN code manually. The vehicle VIN code is either on the vehicle frame(see Page 157) or on the vehicle nameplate (see Page 159).

1. Click the "**CONFIRM**" button to complete the vehicle binding operation.
2. Click "**START**" to start the vehicle.

VEHICLE UNLOCKED

There are three ways to unlock a vehicle:

1. **Mechanical key (preferred)**.
2. **APP remote unlock vehicle**

APP Remote Unlock is based on 4G network. As long as the area covered by the network, you can use the remote unlock function in the APP to unlock the vehicle.

3. **APP Bluetooth unlock vehicle**

When both the vehicle and the mobile phone are on, within the effective connection distance of the Bluetooth signal, the vehicle Bluetooth module will automatically unlock the vehicle after acquiring the mobile phone Bluetooth signal, and automatically lock the vehicle when the mobile phone is far away.

NOTICE
After using the mechanical key to power down, the vehicle cannot be unlocked by induction to power up again. It needs to disconnect the reconnection and close the unlock to restart.

Mechanical key unlock is the optimal unlock method for vehicles. If you do not want to use the sensor unlock function, the sensor unlock setting can be turned off in the APP.

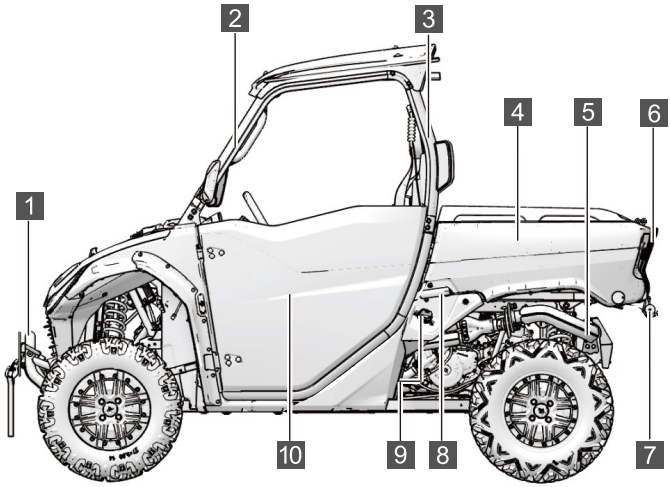
APP FUNCTION

This app is a program designed for users who have the Segway Powersports vehicle.

Main features: driving control analysis, vehicle data analysis...

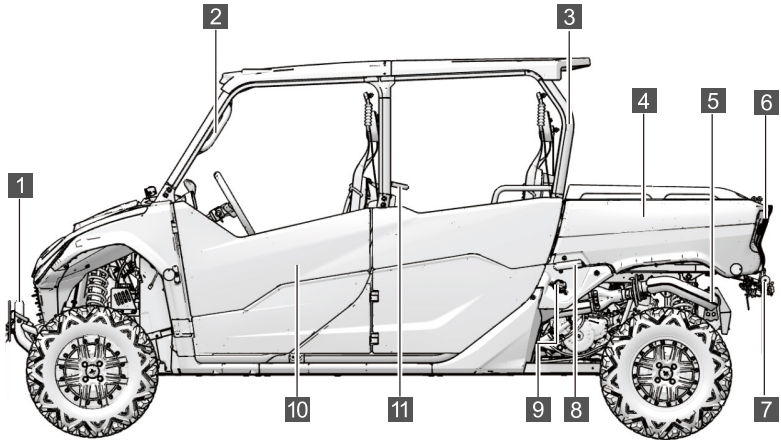
PARTS AND CONTROL

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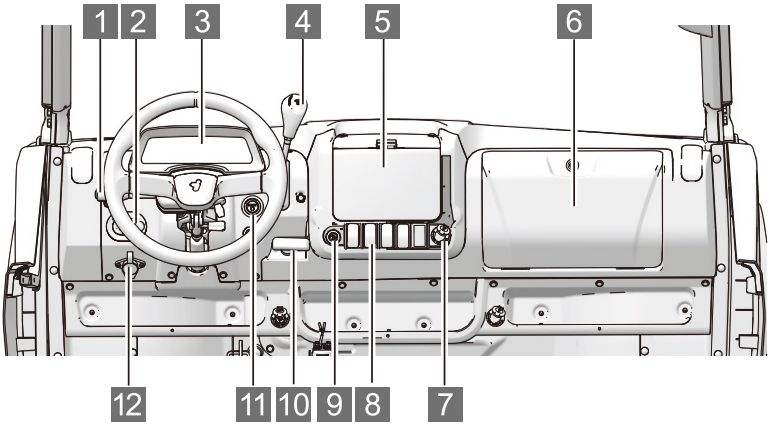


1 Front Bumper	2 Handrails	3 ROPS
4 Cargo Box	5 Muffler	6 Tailgate
7 Rear Bumper	8 Cargo Box Flip Handle	9 Fuel Cap
10 Cab Net/Door		

SGW1000F-U5



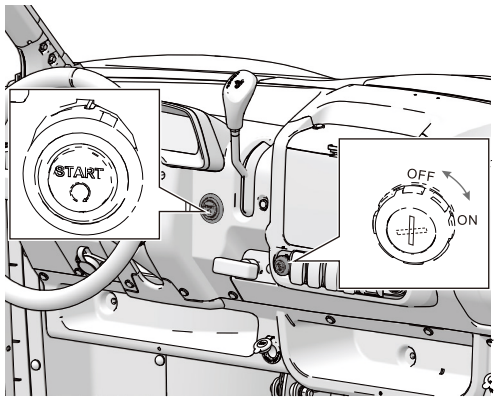
1 Front Bumper	2 Handrails	3 ROPS
4 Cargo Box	5 Muffler	6 Tailgate
7 Rear Bumper	8 Cargo Box Flip Handle	9 Fuel Cap
10 Cab Net/Door	11 Rear Handrails	



1 **Light Switch**
2 **AWD Switch**
3 **Instrument Cluster**
4 **Gear Shifter/Selector**
5 **Storage Box**
6 **Storage Box**
7 **DC Socket**
8 **Switch**
9 **Ignition**
10 **Parking Brake**
11 **Start Button**
12 **Winch Socket**

IGNITION LOCK/START BUTTON

MODE 1 :



Ignition Lock

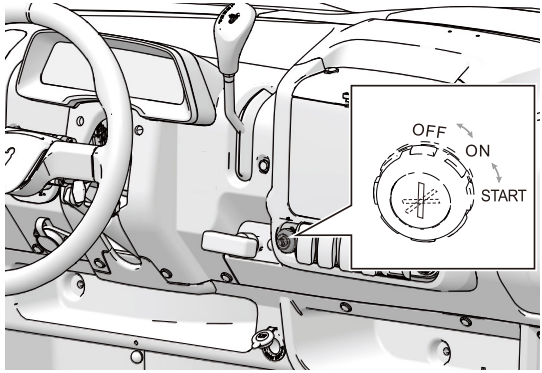
Turn the key to the position "ON": the vehicle is energized and the electrical components of the vehicle can be used.

Turn the key to the position “OFF”: the whole vehicle circuit is disconnected and the engine stops. When the switch is in the off position, the key can be taken out of the switch.

Start Switch

Turn the key to the ignition switch "ON" position, press start switch“ ” for 1.5 to 2 seconds (Do not exceed 4 seconds), the engine starts.

MODE 2 :

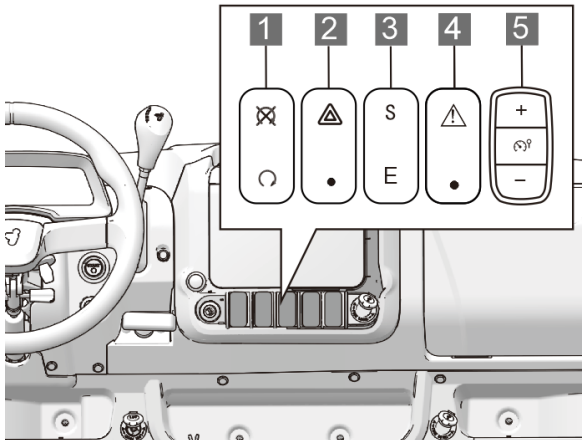


Turn the key to the position "ON": the vehicle is energized and the electrical components of the vehicle can be used.

Turn the key to the "Start" position without loosening. Wait for 1.5 or 2 seconds before the engine starts(Do not exceed 4 seconds), and the key will automatically return to the "ON" position.

Turn the key to the position “OFF”: the whole vehicle circuit is disconnected and the engine stops. When the switch is in the off position, the key can be taken out of the switch.

SWITCHS



1 Emergency shutdown Switch **2 Emergency Switch**
3 Mode Switch **4 Override Switch** **5 Speed switch**

1 Emergency shutdown Switch

" ": Engine Stop " ": Engine Start

Vehicle launch

1. Depress the brake pedal when the gear is in "P" gear or "N" gear.
2. Turn the ignition key into " ON " position.
3. Press the Engine On Switch " "
4. Press the "start" button for 1.5 seconds to 2 seconds（no more than 4 seconds），the engine start

The vehicle stop

1. Put the shift lever in the "P" position and turn on the parking brake
2. Press the flameout switch " " , and the engine will stop.

2 Emergency Switch

Use this switch when the vehicle is in an emergency. Press the switch to the "" position, the emergency light turns on, and the vehicle position light flashes, and press the switch to the "●" position to turn off the emergency light.

"  ": Emergency light on.

" ● ": Emergency light off.

Use this switch when the vehicle is in an emergency

- Temporary parking of vehicles
- The vehicle is malfunctioning.
- The vehicle encounters other emergencies.

3 Mode Switch

" S ": Sport mode

This mode can increase the RPM of engine, the vehicle power is stronger, the speed is faster, and the fuel consumption is more. It is recommended not to start in sport mode.

" E ": Economic mode

Under the condition of ensuring the power of the vehicle, this mode can effectively allow the vehicle to save fuel, reduce fuel use as much as possible, and enhance fuel economy.

4 Override Switch

"  ": Lift the max speed limit of the vehicle in 4WD-LOCK MODE(18.6MPH（30KM/h）)

5 Speed switch(only applicable to abs models)

"": Speed limit switch

" + ": Speed increase button

" - ": Speed decrease button

The speed limit function can be turned on and off, both at stationary state (vehicle power on or idle speed) and driving state.

Activate speed limiter mode

When the vehicle is powered on, idling or driving, press the "" switch to enter the speed limit mode, at this time the speed limit icon "" on the instrument lights up

1、Stationary state: (vehicle power on or idle speed)

Initial driving speed ≤ 30 km/h, trun on the speed limit function （press ""）, the default speed limit is 30km/h, then adjust the speed up or down by "+" or "-" (when the speed exceeds 30 km/h), the step is 5 km/h, the upper limit of the adjustment is the maximum speed, the lower limit of 30 km/h。

The units is km/h:

30km/h→35km/h→40km/h→45km/h.....→Maximum speed

2、Driving state

Initial driving speed ≤ 30 km/h, trun on the speed limit function （press ""）, the default speed limit is 30km/h, then adjust the speed up or down by "+" or "-" (when the speed exceeds 30 km/h), the step is 5 km/h, the upper limit of the adjustment is the maximum speed, the lower limit of 30 km/h.

NOTICE

The speed is displayed in multiples of 5 when the speed limit is set (e.g. 35 km/h after acceleration when the speed is 32 km/h. 40 km/h after acceleration when the speed is 36 km/h)

Deactivate speed limiter mode

1. Press "" while the speed limit mode is on to stop the speed limit mode.
2. The speed limit setting function is automatically disengaged after the key is in the "OFF" position and there is no memory function.
3. Turn off the engine (at this time the key is in the "ON" position) the speed limit function is automatically released, there is no memory function

TOGGLE SWITCH FOR TWO-WHEEL DRIVE OR FOUR-WHEEL DRIVE



NOTICE

The vehicle must be stopped to engage or disengage 2WD/4WD switch. Mechanical damage may occur if switch is engaged or disengaged while driving.

2 x 4 patterns

The knob is turned to " ", the instrument displays the 2WD symbol " ". At this time, in the 2x4 mode, the whole vehicle is driven by the rear wheels only. No power output from the front wheels.

4 x 4 patterns

The knob is turned to " ", the instrument shows the 4WD symbol " ", at this time, it works in 4×4WD state, the front wheels have power output and The rear wheels have power output. This mode is suitable for muddy, mountainous and other bad road.

4×4 locking mode

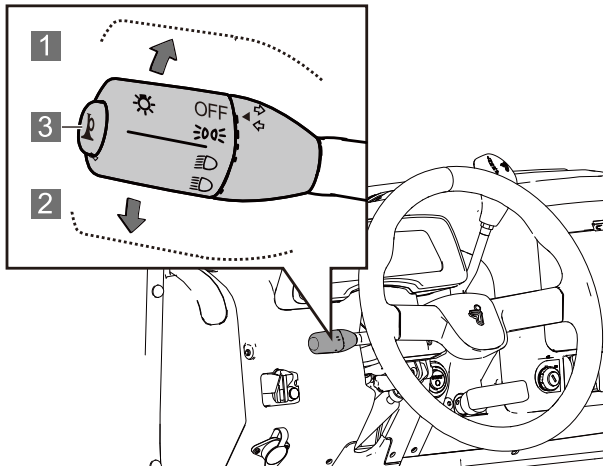
The knob is turned to "  ", the 4WD lock symbol is displayed on the instrument "  ". At this time, the vehicle works in 4WD lock state, the front wheels have power output, the rear wheels have power output, the front left and right tires have the same speed and power output. The vehicle will in speed limitation and speed cannot more than 18 MPH (30km/h), this mode is suitable for vehicle in troubles. The speed limit can be released through the Override Switch“ ⚠ ”.

Rear axle differential mode (if equipped)

“  ”: Button pops up: rear axle differential mode off.

“  ”: Button pressed: Rear axle differential mode on.

COMBINATION SWITCH

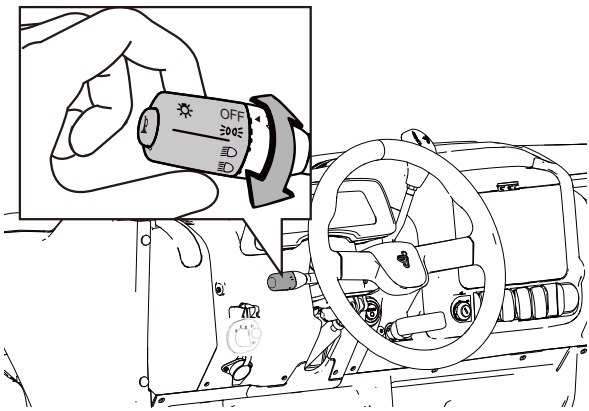


1 Push the control lever up to turn on the right turn signal light, the right turn indicator flashes on the meter

2 Push the control lever down to turn on the left turn signal light, and the left turn indicator on the instrument flashes.

3 Horn switch

HEADLIGHT SWITCH



As shown in the picture above, turn the end of the lever to turn on the lights

"≡DC≡": Front position lights, tail lights, license plate lights and dashboard lights are turned on.

"≡D": Turn the switch to this position, the headlights are placed on the low beam.

"≡D": Turn the switch to this position, the front light is placed on the high beam, and the high beam logo on the instrument lights up.

"OFF": Turn off the headlights, daytime runing lights on.

"": Horn switch

INSTRUMENT PANEL

The instrument panel provides the operator with the vehicle information, and the driver should understand the meaning of the various indicators, warning lights and display content information on the instrument table, to understand the vehicle status.

NOTICE

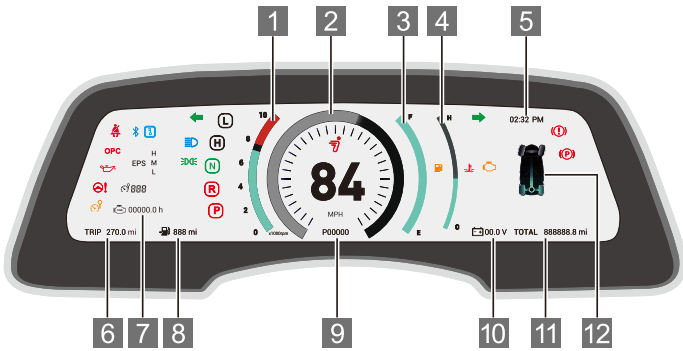
The combination meter may be damaged by using a high-pressure cleaner. Do not clean the instrument with alcohol or corrosive detergent. Corrosive liquid will corrode the surface of the instrument and cause damage to the instrument.

INSTRUMENT INDICATOR LIGHT/WARNING LIGHT

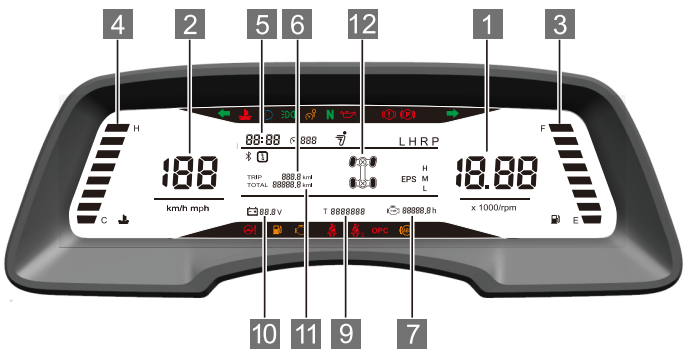
The vehicle may be equipped with different instruments with slightly different display status or display area, subject to the actual vehicle instrument.

When the ignition lock switch is placed in "ON" mode, the instrument are turned on and all warning lights on the instrument will be illuminated briefly.

TYPE I:



TYPE II:



1 Engine Tachometer shows

Display the real-time RPM of the vehicle.

0→2→4→6→8→10(from low to high)

2 Speedometer

Display the real-time speed of the vehicle.

3 Gage

E：Fuel empty F：Fuel full

Shows the fuel level in the fuel tank. Activate the low fuel warning when the last section is cleared. All segments including the fuel icon will flash and refuel immediately.

4 Engine Water Temperature

thermometer shows the engine water temperature.

C：engine water temperature low

H：engine water temperature high

5 Time Display

After the vehicle is bound to the "Segway Powersports" APP, the time displayed on the dashboard will be automatically synchronized to the local time

6 Subtotal Mileage

Sub-total mileage can also be cleared through the Instrument setting buttons.

7 Engine Running Time

Display engine running time

8 Dynamic Residual Mileage

Display the mileage that can be driven by the current remaining fuel

9 Fault Code Display

In case of partial failure of the vehicle, the fault code is displayed in this area. See page 166 for detailed description of the fault code.

10 Battery Voltage

Display the current voltage of the vehicle battery

11 Total Mileage

Display the total mileage accumulated by the vehicle

12 Four-Wheel Drive Full DifferentialLock

 2 x 4 patterns  4 x 4 patterns  Front axle lock mode

 2 x 4 patterns(With differential)  4 x 4 patterns(With differential)

 4×4 locking mode(With differential)

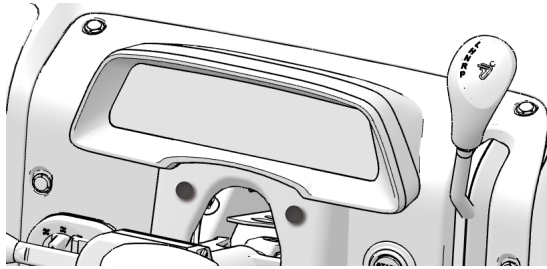
Indicator light/warning indication

light	Instructions	status
	Safety Belt	This light reminds the operator to ensure that all riders wear helmets and safety belts before work. The driver's seat belt is equipped with a seat belt interlocking device. If the seat belt is not secured, the vehicle speed will be limited to 24 km/h
OPC	Off-Seat	When the driver leaves the seat and park break not applied, the OPC light will be on and the buzzer will sound.
	Oil Pressure	This light is on when oil pressure is too low.
	EPS System	Indicates a failure in EPS system (optional equipment, if equipped)
	Brake System	• Low brake fluid level • The braking system is faulty

light	Instructions	status
	Parking Brake	This light is on after parking brake is applied.
	Engine Failure	This indicator appears if an EFI-related fault occurs. Do not operate the vehicle if this warning appears. Serious engine damage could result.
	Coolant Temperature	Indicator light showing excessive temperature of engine coolant. When it lights up and alarms, the engine should be stopped immediately and shut down. After cooling down to normal temperature, the engine should continue to run.
	Left Turn	This light is lit when the left turn signal is turned on.
	High Beam	This lamp illuminates when the headlamp switch is set to high beam.
	Position light	The front light, tail light, license plate light and instrument panel light are on.
	Right turn indicator	This light is lit when the right turn signal is turned on.
	Power icon on Bluetooth	The icon will light on when the APP Bluetooth power is used.
	Remote Power on	The APP in the mobile phone, Click the "remote power on" button and the light will be on. (The premise is that T-BOX networking is successful)

light	Instructions	status
LHRP	Gear	**L** low gear **H** high gear **R** reverse gear **P** parking gear
EPS H M L	EPS mode	M -Normal mode, power normal H -Comfort mode, power light L -Motion mode, booster weight
	"ABS" warning light	Indicates a failure in the following system:： • ABS ； • Brake assist system
	Speed limit setting icon (Only applicable to abs models)	In the speed limit mode, when the driving speed is greater than the set speed limit, the speed limit indicator (yellow) flashes and the buzzer alarms at the same time, and the alarm is lifted when the driving speed is ⩽100 km/h.
	Speed limit alarm Indicator (Only applicable to abs models)	The instrument displays the speed limit icon when the speed limit is on, but not when it is off

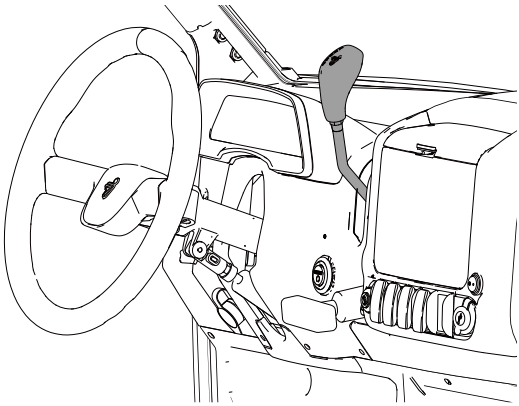
INSTRUMENT SETTING BUTTONS



Function	Left button	Right button	Display after action
Brightness adjustment	Short press		Adjust backlight brightness (default brightest)
Subtotal clear	Long press		Zeroing of subtotal mileage
EPS gear switching		Short press	Send EPS gear switching signal
Metric/Imperial Switching		Long press	Metric and Imperial switching
Clock setting	Long press	Long press	Clock hour blinking
	Short press		Clock hour +1
		Long press	Clock hour continuous +1
	Short press		Clock minute blinking
		Short press	Clock minute +1
		Long press	Clock minute continuous +1

GEAR SHIFT SELECTOR

Different operation modes correspond to different gears. After selecting the gear. Check the indicator light on the instrument panel to ensure that the gear has been switched to the desired position. See the table below for the tap position description:



L **Low speed**

H **High speed**

N **Neutral**

R **Reverse**

P **Parking**

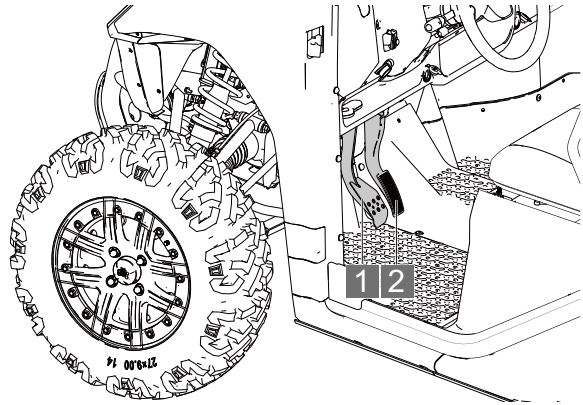
⚠ CAUTION

When the vehicle speed is lower than 20KM/H and driving for more than 10 minutes, please make sure to use "L" gear.

The transmission will be damaged when you change shift gear if the engine is running over the idle speed or in the driving process.

Put shift gear in P position and lock parking brake when the driver is out of the vehicle.

BRAKE PEDAL AND ACCELERATOR PEDAL



1 **Brake pedal** 2 **Accelerator pedal**

Brake pedal

Step on brake pedal 1 to select gear, reduce speed, or stop the vehicle. Use this brake pedal when you start the engine.

If you want to reduce speed or stop the vehicle, step on the brake pedal with your right foot.

The brake pedal is spring load style. It will return to balance position if no force is on it.

Accelerator pedal

Step on accelerator pedal 2 downward to increase engine speed.
If you want to increase speed or keep speed, use your right foot to hold the accelerator pedal.
If you want to decrease speed, loosen your accelerator pedal.
The accelerator pedal is spring load style. It will return to balance position if no force is on it (idle speed).

When released, the spring pressure returns the pedal to the rest position. Before starting the engine

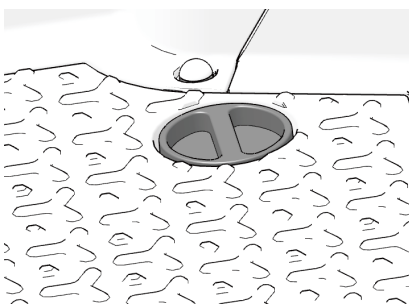
Before, be sure to check if the accelerator pedal returns normally

⚠ CAUTION

If the accelerator pedal and the brake pedal are applied at the same time, the engine power may be affected limit

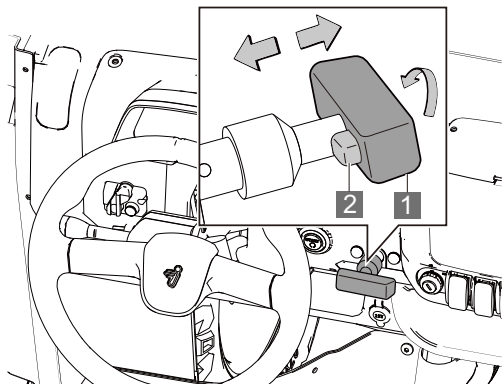
FOOT PEDAL ROTATING COVER

The driver's foot panel and the passenger's foot panel have a foot panel rotating cover respectively, when the vehicle is involved in water, vehicle wash, etc., which leads to the accumulation of water on the foot panel, the rotating cover can be unscrewed to discharge the water.



PARKING BRAKE

Whenever a person leaves the vehicle, the parking brake must be turned on to put it in the parking system working status



1 Parking handle 2 Parking button

Turn on the parking brake:

When parking the car, first park the car on a suitable road, step on the brake pedal to make the car stand still, and then hold the T-shaped parking handle with your hand and pull it up until your foot releases the brake The vehicle is still in a reliable stationary state when pedaling, and the parking brake is turned on at this time.

Release the parking brake:

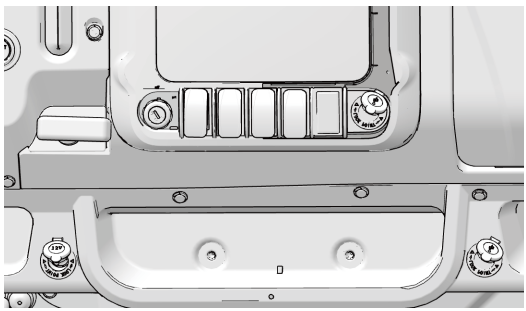
Press the lock button with your index finger, while holding the T-shaped handle, rotate it 90 degrees clockwise, and push the parking handle down to the bottom to release the parking.

⚠ CAUTION

When the driver leaves the vehicle, the parking brake of the vehicle must be turned on

SPARE SOCKETS

This vehicle is equipped with two 12V outlets located in the middle panel of the vehicle.



This vehicle is equipped with a 12V power output holder and a USB power output holder.

The power socket can be used for 12V accessories with an operating current of less than 10A.

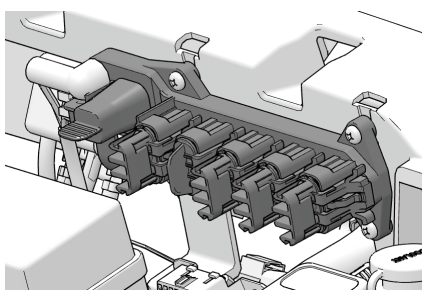
Output power: 120W

Conditions of use of the power socket: When the ignition lock is in " ON " mode.

POWER DISTRIBUTOR

This vehicle is equipped with a power distributor located under the front access cover.

The power distributor can be used for additional vehicle electrical accessories such as wipers, audio, etc.



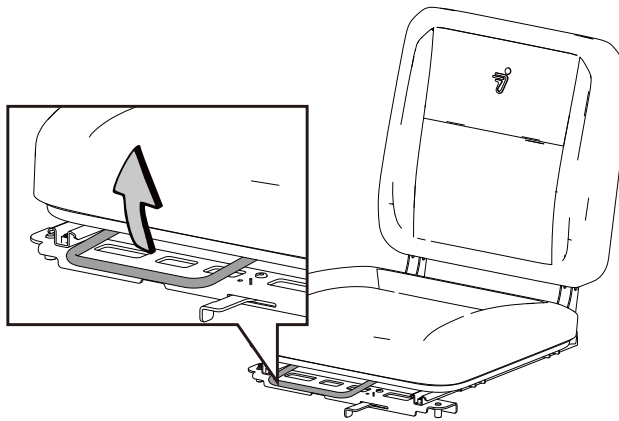
Fuse: 40A Maximum power: 150W

The driver's seat can be adjusted forwards and backwards, before driving. Adjust the position of the seat so that the driver's back can touch the seat back, and the driver's feet can step on the brake pedal and accelerator pedal.

DRIVER SEAT ADJUSTMENT

There is a U-shaped adjusting handle at the front end of the seat. Pull the U-shaped adjusting rod upward by hand.

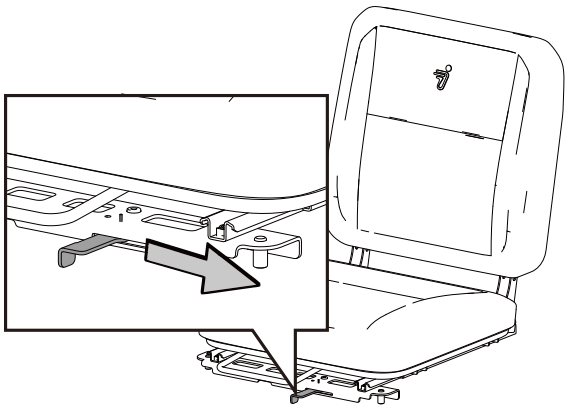
Keep sliding the seat forward or backward and slide the seat to the desired position. Release the handle. The seat will be locked in the new position.



Seat adjusting handle

DRIVER SEAT REMOVAL/INSTALLATION

Driver seat removal



seat lock pin

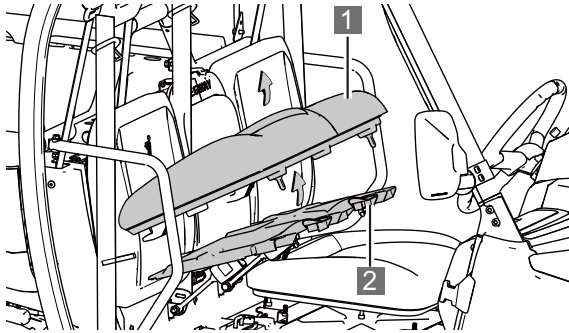
1. Move the seat lock pin to the outside.
2. Gently pull the seat forward, and pull out the cable connector under the seat.
3. Remove the seat from the vehicle.

Driver seat installation

1. Plug the cable connector under the seat.
2. Insert the two fixing pins behind the seat into the hooks.
3. Turn the seat to lock the lock pin of the seat and frame.

After installation, check whether the seat is installed in place to ensure the driver's safety.

PASSENGER SEAT REMOVAL



1 **Passenger seat** 2 **Passenger seat cover**

Lift the front end of the seat to remove the seat from the vehicle.

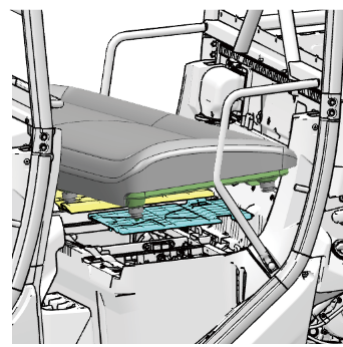
The seat cover is located under the passenger seat. After the passenger seat is removed, hold the seat cover with both hands.

Move it upwards and remove the seat cover.

The battery and a storage compartment are located under the passenger seat.

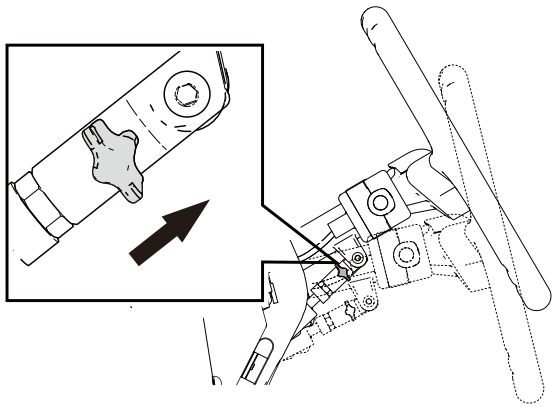
REAR PASSENGER SEAT REMOVAL(SGW1000F-U5)

Remove the seat from the vehicle by lifting the front of the seat firmly upward. The seat cover is located underneath the seat. After the passenger seat is removed, the seat cover is removed by clasping the seat cover with both hands and moving it upward with force.The battery and fuel tank are located underneath.



STEERING WHEEL

The steering wheel can be tilted up or down to meet the driver's driving preferences.



Steering wheel angle adjustment :

After raising the steering column adjustment lever toward the steering wheel, do not loosen it.

Move the steering wheel up or down to adjust to a suitable position, hold the steering wheel, and release the adjustment pole.

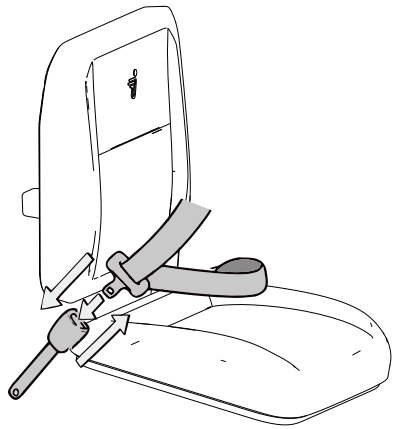
After adjusting the angle of the steering wheel, check whether the steering wheel is firm.

⚠ WARNING

Do not adjust the steering wheel while driving.

Otherwise, it may cause the driver to control errors and cause an accident, which may result in serious injury or death.

SEAT BELT



Fasten your seat belt as soon as you get in the vehicle. The seat belt can effectively protect the driver and the passenger.

In the event of an accident, the seat belt can reduce the risk of injuries. Fasten seat belts correctly:

◆ Stretch the shoulder buckle so that it covers the entire shoulder, but do not touch the neck or slipping off the shoulder.

◆ Place the waist buckle as low as possible across the hip.

◆ Sit up straight with your back against the seat.

◆ Do not twist the seat belt.

Insert the lock tab into the buckle until you hear a click to fasten the seat belt.

Press the release button to release the seat belt.

⚠ CAUTION

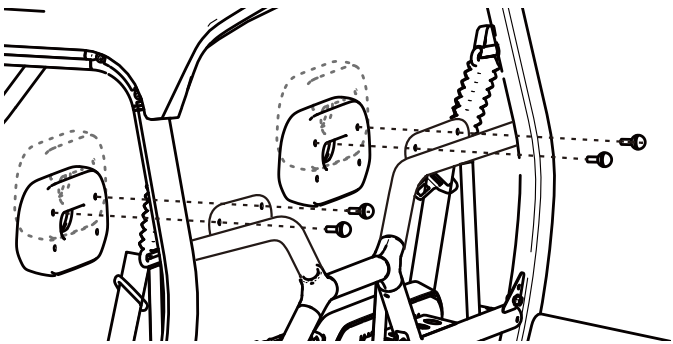
Before each use, check all seat belts are working properly.

1. **Push the latch plate into the buckle until it clicks.**
2. **Pull out each seat belt and check for any damage, including cutting, grinding**

Damage, wear, or stiffness. If any damage is found, please contact a Segway Powersports dealer for replacement.

3. **Clean the dirt or debris on the seat belt, wipe the belt with mild soap and water. Never use bleach, dyes or household detergents.**

SEAT HEADREST ADJUSTMENT



The seat headrest can be adjusted. When the upper row of headrest holes are fixed, the headrest position is low. When the lower row of headrest holes are fixed, the headrest position is high.

DOOR (SAFETY NET)

Whether this vehicle is equipped with a driving door or a safety net. The door must be closed before driving and lock the door or safety net.

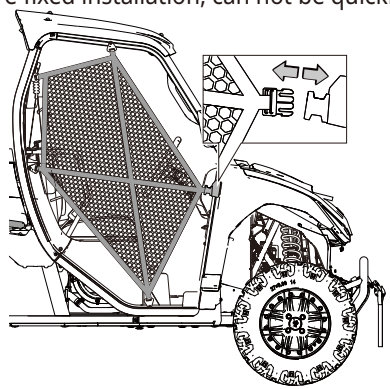
In the event of an accident or rollover, the risk of serious injury or death will increase without closing or locking the cab door.

Before each use, be sure to check the wear and tear of the door, door latch or safety net and lock.

Replace any worn or damaged parts in time. New parts can be obtained from your authorized Segway Powersports dealer.

SAFETY NET

The safety net has five fixed points, the front lock is movable, and the remaining four are fixed installation, can not be quickly removed.



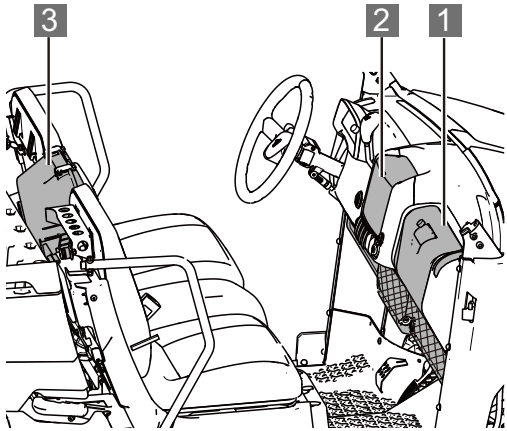
Securing the net

Insert lock latch of safety net in the fixer when you are in the cab.

Opening the net

Loosen front lock latch of safety net before leaving the cab.

STORAGE BOX



1 Front storage box

Tooling are placed in this box.

2 Middle storage box or touchscreen display installed

3 Passenger backrest storage box(Only the SGW1000F-U2 is equipped)

This box can be removed. Click the upper part of box and lift it out.
Meanwhile, move upper left and right buckles of box to open this box.

⚠ WARNING

Keep the storage box closed if you do not use it. Or, you will be possible to be hurt by the goods kept in the storage box or while you open it in emergency brake or turning, resulting in accident.

FUEL TANK CAP

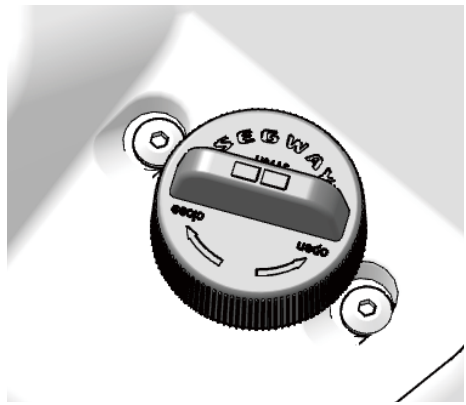
⚠ WARNING

Always gas up fuel type as per requirement.

Do not smoke while refueling or it may ignite the fuel and cause fire hazard.

Do not touch other people or stuff with static electricity or it may cause static electricity accumulation and ignite fuel.

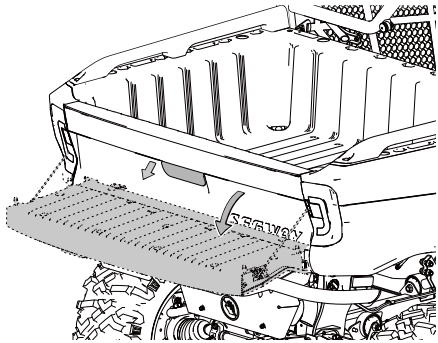
Do not overfill the fuel when you gas up.



1. Turn the cap in the direction of "OPEN" (see direction sign in the cap).
2. Fill the vehicle with the specified type of fuel (do not overfill).
3. Turn the cap in the direction of "CLOSE"..

CARGO BOX TAILGATE

Open the tailgate by lifting the handle of the rear door panel.Raise the tailgate up and push it hard. When you hear the "click" of the tailgate lock the door is closed. After closing, check whether the tailgate is locked.



⚠ WARNING

Do not carry passengers on cargo container. When loading the goods, do not exceed the maximum load of the container

ELECTRONIC POWER STEERING（EPS）

When the engine is started, the electronic power steering device (if equipped) starts to work. When the key is turned to the "ON" position the EPS system is energized.

NOTICE

When the key is turned to the on position, the EPS warning indicator lights up briefly. Please refer to P59.

After the key switch is turned to the "OFF" position, the EPS system will be turned off.

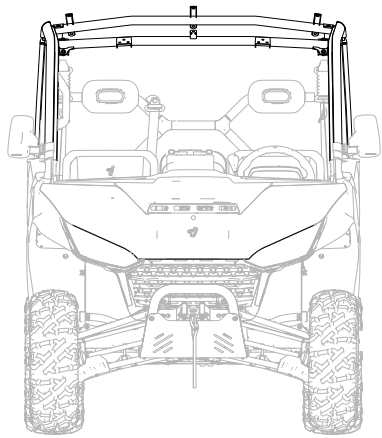
If the EPS indicator light continues to light up after the engine is started, it means that the EPS system has failed. Please contact your Segway Powersports dealer.

ROLL-OVERPROTECTIVE STRUCTURES(ROPS)

The rollover protection device (ROPS) of the vehicle meets ISO 3471: 2008 rollover performance.

If there is any damage to the vehicle's rollover protection device, please contact Segway Powersports.

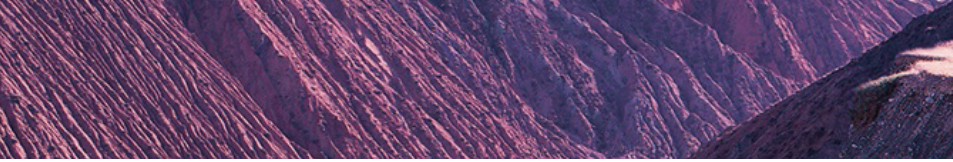
The dealer thoroughly inspects the ROPS or replaces it.



No device can assure occupant protection in the event of a rollover. When used with seat belts and cab nets or doors, the ROPS helps prevent occupants from being ejected from the vehicle. Always follow all safe operating practices outlined in this manual to avoid vehicle rollover.

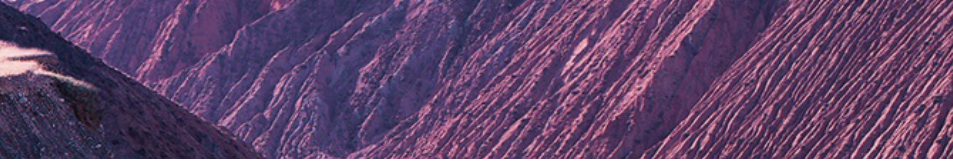
⚠ WARNING

Vehicle rollover could cause severe injury or death. Always avoid operating in a manner that could result in vehicle rollover.



OPERATION

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OPERATION

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WINCH OPERATION 90

This section provides basic operating instructions, including how to start and stop the vehicle, driving skills and precautions when driving on different roadways.

Even if you've ridden other on-road vehicles, you must take time to familiarize yourself with how the vehicle operates. Practice in flat and wide areas until you are familiar with this all-terrain vehicle.

⚠ WARNING

Failure to inspect and verify that the vehicle is in safe operating condition before operating increases the risk of an accident. Always perform the Pre -Ride Inspection outlined in the Operation chapter before each use of your

vehicle to make sure it's in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this owner's manual. See the Periodic Maintenance section of the Maintenance chapter.

BASIC DRVING GUIDE

TRAIL ETIQUETTE

Always practice good etiquette when riding. Allow a safe distance between your vehicle and other vehicles operating in the same area. Communicate to oncoming operators by signaling the number of vehicles in your group. When stopping, move your vehicle to the edge of the trail as far as possible to allow others to pass safely.

KNOW YOUR RIDING AREA/TREAD LIGHTLY

Familiarize yourself with all laws and regulations concerning the operation of this vehicle in your area. Respect the environment in which you ride your vehicle.

Find out where the designated riding areas are by contacting your dealer, a local riding club, or local officials. Help keep our trails open for recreational vehicle use.

VEHICLE BREAK-IN PERIOD

Your vehicle's break-in period is the first 25 hours of operation or the riding mileage which used first two full tanks of gas. Careful handling of new engine and drive components will improve the performance and service life of these components. Follow these steps carefully.

BRAKE SYSTEM BREAK-IN PERIOD

In order to achieve the best braking performance, the brake must be not less than 200Km run-in when use.

Heavy or excessive braking when using the new braking system may damage the brake pad and disc.

BELT BREAK-IN PERIOD

Proper break-in of the clutch and driving belt will ensure longer service life and better performance. Run the break-in clutch and belt at low speeds for the recommended break-in time, only pulling light loads. Avoid violent acceleration and high speed running during break-in. If the belt is broken, be sure to clean up the intake and outlet pipeline and any debris from the clutch and engine compartment during belt replacement.

NEW OPERATOR DRIVING PROCEDURES

1. Before operating this vehicle, read and understand the owner's manual and all warning and instruction labels.
2. Perform a pre-ride check.
3. Do not carry goods during this period.
4. Do not carry passengers until you have driven the car for at least two hours.
5. Choose a suitable and open area to familiarize yourself with the operation of the vehicle.
6. Safety helmets, eye protection, gloves, long-sleeved shirts, trousers, ankle boots and safety belts must be worn at all times.
7. Sit in the driver's seat, fasten the seat belt, and put the transmission in the "P" position.
8. Depress the brake pedal and release the parking brake.
9. Start the engine.
10. Put the transmission in low gear.
11. Check your surroundings and determine your driving route.
12. Hold the steering wheel with both hands, slowly release the brake, depress the accelerator with your right foot, and start driving.
13. Drive slowly at first, and practice starting, stopping, turning, maneuvering, using the accelerator, brakes, and reversing on a flat ground. When learning how the vehicle operates, practice left and right turns at a slow speed.
14. When you make a turn proficiently and start to run at a faster speed, please observe the following precautions:

Avoid sharp turns

- **Don't turn when stepping on the accelerator.**
- **Don't swerve when driving the vehicle.**
- **Operate according to your skills conditions and terrain.**
- **Do not jump the vehicle or perform any other driving stunts.**

DRIVING WITH PASSENGERS

1. Finish the overview of the new operator driver on the page 70.
2. Pre-ride check. Please refer to the page 79.
3. Don't carry more than one passenger in a two-seat vehicle. The additional passenger will affect the operator's ability to drive and control the vehicle.
4. All riders must be able to sit with their backs on the seat, with their feet flat on the floor, and their hands on the steering wheel (if driving) or on the passenger armrest/grab bar.
5. The driver and all passenger must wear helmets, eye protectors, gloves,long-sleeved shirts, trousers, ankle boots and seat belts. Please refer to the page 14.
6. Passenger can only sit in the passenger seat when driving.
7. Slow down. Always travel at a speed appropriate for your skills, your passengers' skills and operating conditions. Avoid unexpected or aggressive maneuvers that could cause discomfort or injury to a passenger.
8. Vehicle handling may change with passengers and/or cargo on board. Allow more time and distance for braking.

STARTING THE VEHICLE

1. Depress the brake pedal and do not release it.
2. Turn ignition lock switch to "ON" position.
3. Press the "one-button start" button for 1.5 seconds to 2 seconds (no more than 4 seconds), and the engine will start.

Wear riding gear before starting the vehicle, make sure the doors are closed, and the driver and passengers must fasten their seat belts.

PARK THE VEHICLE

1. Press the brake pedal and put the shifter in "P".
2. . Turn the ignition lock key to the "OFF" position, and the key can be removed from the vehicle.
3. Put down the parking brake handle (P. 50)

BRAKING

1. Release the throttle pedal completely.

NOTICE
When the throttle pedal is released completely and engine speed slows to near idle, the vehicle has no engine braking.

2. Press on the brake pedal evenly and firmly.
3. Practice starting and stopping (using the brakes) until you're familiar with the controls.

PARKING THE VEHICLE

1. Stop the vehicle on a level surface. When parking inside a garage or other structure, be sure that the structure is well ventilated and that the vehicle is not close to any source of flame or sparks, including any appliance with pilot lights.
2. Place the transmission in PARK.
3. Stop the engine.
4. Slowly release the brake pedal and make sure the transmission is in PARK before exiting the vehicle.
5. Remove the ignition key to prevent unauthorized use.

DRIVING ON SLIPPERY SURFACES

Whenever riding on slippery surfaces such as wet trails or loose gravel, or during freezing weather, follow these precautions:

1. Do not operate on excessively rough, slippery or loose terrain.
2. Slow down when entering slippery areas.
3. Engage 4X4 before wheels begin to lose traction.

NOTICE

Severe damage to drive train may occur if the 4X4 is engaged while the wheels are spinning. Allow the rear wheels to stop spinning before engaging 4X4, or engage 4X4 before wheels begin to lose traction.

4. Maintain a high level of alertness, reading the trail and avoiding quick, sharp turns, which can cause skids.
5. Correct a skid by turning the steering wheel in the direction of the skid. Never apply the brakes during a skid.

DRIVING THROUGH WATER

Your vehicle can operate through water with a maximum recommended depth equal to floor level. Follow these precautions when operating through water:

NOTICE

Major engine damage can result if the vehicle is not thoroughly inspected after operating in water. Perform the services outlined in the Periodic Maintenance Chart. The following areas need special attention: engine oil, transmission oil, demand drive fluid and all grease fittings. If the vehicle tips or overturns in water, or if the engine stops during or after operating in water, service is required before starting the engine. Your dealer can provide this service. If it's impossible to bring the vehicle in before starting the engine, perform the service outlined in the Vehicle Immersion section of this manual, and take the vehicle in for service at the first opportunity.

1. Determine water depths and current before entering water.
2. Choose a crossing where both banks have gradual inclines.
3. Avoid operating through deep or fast-flowing water.
4. After leaving water, test the brakes. Apply them lightly several times while driving slowly. The friction will help dry out the pads. If it’s unavoidable to enter water deeper than the footrest level.
5. Proceed slowly. Avoid rocks and obstacles.
6. Balance your weight carefully. Avoid sudden movements.
7. Maintain a steady rate of speed. Do not make sudden turns or stops. Do not make sudden throttle changes.

DRIVING IN REVERSE

Follow these precautions when operating in reverse:

1. Always check for obstacles or people behind the vehicle.
2. Apply the throttle lightly. Never open the throttle suddenly.
3. Back slowly.
4. Apply the brakes lightly for stopping.
5. Avoid making sharp turns.

DRIVING OVER OBSTACLES

Follow these precautions when operating over obstacles:

1. Before operating in a new area, check for obstacles.
2. Watch out for bumps,potholes and other obstacles in the terrain.
3. When you approach any obstacle, reduce your speed and be prepared to stop.
4. Never try to ride over large obstacles, such as large rocks or fallen logs.
5. Always have a passenger dismount before operating over an obstacle that could cause a fall from the vehicle or vehicle tip over.

DRIVING UPHILL

Braking and handling are greatly affected when operating in hilly terrain. Improper procedure could cause loss of control or rollover. Whenever traveling uphill, follow these precautions:

1. Always move the 4X4 switch to 4X4WD (if equipped) before ascending or descending a hill.

2. Always travel straight uphill.
3. Keep both feet on the floor.
4. Always check the terrain carefully before ascending any hill. Never climb hills with excessively slippery or loose surfaces.
5. Proceed at a steady rate of speed and throttle opening. Never open the throttle suddenly.
6. Never go over the crest of a hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.

DRIVING DOWNHILL

When driving downhill, follow these precautions:

1. Avoid excessively steep hills.
2. Always move the 4X4 switch to 4X4WD (if equipped) before ascending or descending a hill.
3. Drive straight downhill. Avoid descending a hill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight downhill when possible.
4. Slow down.
5. Apply the brakes slightly to aid in slowing.

DRIVING ON A SIDEHILL (SIDEHILLING)

Driving on a sidehill is not recommended. Improper procedure could cause loss of control or overturn. Avoid crossing the side of any hill unless absolutely necessary.

If crossing a sidehill is unavoidable, follow these precautions:

1. Slow down.
2. Exercise extreme caution.
3. Avoid crossing the side of a steep hill.

PARKING ON AN INCLINE

Avoid parking on an incline if possible. If it's unavoidable, follow these precautions:

1. Stop the engine.
2. Place the transmission in PARK.
3. Lock the parking brake.
4. Always block the rear wheels on the downhill side.

PARKING THE VEHICLE

1. Stop the vehicle on a level surface. When parking inside a garage or other structure, be sure that the structure is well ventilated and that the vehicle is not close to any source of flame or sparks, including any appliance with pilot lights.
2. Place the transmission in PARK.
3. Turn the engine off.
4. Engage the parking brake (if equipped).
5. Slowly release the brake pedal and make sure the transmission is in PARK before exiting the vehicle.
6. Remove the ignition key to prevent unauthorized use.

ENGINE BREAK-IN GUIDELINES

The engine break-in period is the first 25 hours of operation or the riding mileage which used first two full tanks of fuel.

- Avoid full throttle operation.
- Avoid pressing the accelerator pedal past ¾ down.
- Avoid continuous acceleration.

The brake needs a 200km break-in period.

New brakes will not operate at their maximum efficiency until the break-in period is over. Brake performance may be compromised if not followed.

NOTICE

During this period, avoid full-throttle running, rapid acceleration, and constant rpm operation.

PRE-RIDE INSPECTION

Perform a pre-ride inspection before each ride to detect any potential problem that could occur during operation. The pre-ride inspection will help you monitor component wear and deterioration before they become a problem.

Correct any problems that you discover to reduce the risk of a breakdown or accident.Inspection Items.

Item	Note	Page
Brake system/pedal travel	Ensure proper operation	P51
Brake fluid	Ensure appropriate level	P126
Front suspension	Check and lubricate if necessary	P132
Rear suspension	Check and lubricate if necessary	P132
Tire	Check status and pressure	p127
Wheel/fastener	Check to ensure the tightness of fasteners	p129
Nut、bolt、fastener	Check to make sure it's tight	——
Fuel	Ensure appropriate level	P63
Engine oil	Ensure appropriate level	P104
Coolant level	Ensure appropriate level	P122
Coolant pipe	Check leakage	——
Throttle	Ensure proper operation	——
Air intake prefilter	Check ,clean	P134-136
Front headlight	Check operation	P43
Brake light/taillight	Check operation	——
Seat belt	Check the length of the seat belt for damage and check whether the latch is in normal operation	P59

HAULING CARGO

⚠ WARNING

Overloading the vehicle or carrying cargo improperly can alter vehicle handling and may cause loss of control or braking instability. Always follow these precautions when hauling cargo:

Never exceed the stated load capacity for this vehicle.

Reduce speed and allow greater distances for braking when hauling cargo.

Never exceed the maximum weight capacity of the vehicle. When determining the weight you are adding to the vehicle, include the weight of the operator, passenger(s), accessories and loads in the rack or box. The combined weight of these items must not exceed the maximum weight capacity.

Always load the cargo box with the load as far forward and as low as possible.

When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions.

Always operate the vehicle with extreme care when hauling cargo. Slow down and drive in the lowest gear available.

⚠ WARNING

SECURE ALL LOADS BEFORE OPERATING. Unsecured loads can create unstable operating conditions, which could result in loss of control of the vehicle.

OPERATE ONLY WITH STABLE AND SAFELY ARRANGED LOADS. When handling off-centered loads that cannot be centered, securely fasten the load and operate with extra caution.

HEAVY LOADS CAN CAUSE BRAKING AND CONTROL PROBLEMS. Use extreme caution when applying brakes with a loaded vehicle. Avoid terrain or situations that may require backing downhill.

USE EXTREME CAUTION when operating with loads that extend over the rack sides. Stability and maneuverability may be adversely affected, causing a rollover.

DO NOT TRAVEL FASTER THAN THE RECOMMENDED SPEEDS. Vehicle should never exceed 10 MPH (16 km/h) while towing a load on a level grass surface. Vehicle speed should never exceed 5 MPH (8 km/h) when towing loads in rough terrain, while cornering, or while ascending or descending a hill. When the vehicle speed is lower than 20KM/H and driving for more than 10 minutes, please make sure to use "L" gear.

NEVER EXCEED PAYLOAD LIMITS OF VEHICLE. Reduce speed, turn gradually, and allow greater distance for braking when carrying cargo. Carrying a passenger in the cargo box could result in a fall from the vehicle or contact with moving components. Never allow a passenger to ride in the cargo box.

Your vehicle has been designed to carry or tow specific capacities. Reduce speed and allow a greater distance for braking when carrying cargo.

Loads should be centered and carried as low as possible in the box. For stability on rough or hilly terrain, reduce both speed and cargo. Exercise caution if the cargo load extends over the side of the box.

Always read and understand the load distribution warnings listed on warning labels and in this manual. Never exceed the maximum capacities specified for your vehicle.

BELT LIFE

To extend belt life, use low gear when hauling or towing heavy cargo.

TOWING LOADS

⚠ WARNING

Towing improperly can alter vehicle handling and may cause loss of control or brake instability.

Always follow these precautions when towing:

1. Never load more than 110 kg tongue weight on the towing bracket.
2. When towing a disabled vehicle, place the disabled vehicle's transmission in neutral. Do not operate the vehicle faster than 16 km/h when towing.
3. Towing a trailer increases braking distance. Do not operate the vehicle faster than 16 km/h when towing.
4. Do not tow more than the recommended weight for the vehicle.
5. Attach a trailer to the trailer hitch bracket only. Do not attach a trailer to any other location, which could result in loss of control of the vehicle.
6. The total load (operator, accessories, cargo and weight on hitch) must not exceed the maximum weight capacity of the vehicle.

MAXIMUM LOADING CAPACITY

Don't over the maximum loading capacity:

Vehicle Model	SGW1000F-U2/U7	SGW1000F-U5
Maximum weight capacity	680 kg	580 kg
Maximum cargo load	350 kg	205 kg
Maximum unbraked towing mass	400 kg	400 kg
Maximum unbraked tongue mass	100 kg	100 kg
Maximum inertiabraked towing mass	860 kg	860 kg
Maximum inertiabraked tongue mass	100 kg	100 kg

DUMPING THE CARGO BOX

To dump the cargo box, do the following:

1. Select a level site to dump the cargo box. Do not attempt to dump or unload the vehicle while parked on an incline.
2. Apply the brakes.
3. Set the parking brake.
4. Turn the key to the off position.
5. Dismount vehicle.
6. Ensure that the cargo is positioned evenly or toward the front of the cargo box.

⚠ WARNING

If the weight distribution on the box is located toward the rear of the box when the release lever is pulled forward, the box may dump unexpectedly and cause serious injury to the operator or bystanders. Never operate the dump lever without ensuring that the load is positioned evenly or at the front of the box.

7. Release the tailgate latches.
8. Stand clear and pull up on the cargo box release lever.
9. Lift the front of the cargo box to dump the cargo.
10. Lower the cargo box and push down securely to latch.
11. Close the tailgate and secure both tailgate latches.

⚠ WARNING

Operating the vehicle while the cargo box is raised could result in severe injury. The box could close unexpectedly and cause injury to the driver or passenger. The rear tires will also catch the rear of a raised box, damaging the vehicle and creating hazardous driving conditions. Never operate this vehicle with the cargo box in the raised position.

LOADING GUIDELINES

When transporting cargos, please follow below instructions:

1. Do not exceed the weight specified in the warning label and this manual.
2. Don't allow passengers to sit in the cargo box.
3. Make sure all cargo is secured before riding.
4. Avoid riding on steep slopes when carrying cargo or pulling a trailer.
5. Use low-speed gear when hauling heavy cargo.
6. When handling cargo, operate the vehicle with caution.

TRAILER(IF EQUIPPED)

The towing device is a detachable part. It can be removed from the vehicle when not in use. When towing a load that the towing weight does not include the towing device.

- The total load (weight on the operator, accessories, cargo and trailer) shall not exceed the maximum capacity of the vehicle.

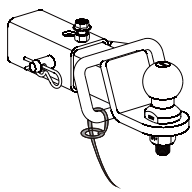
Where a designated attachment point is provided on the towbar:

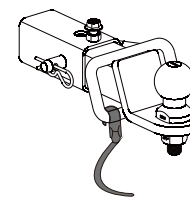
Either:

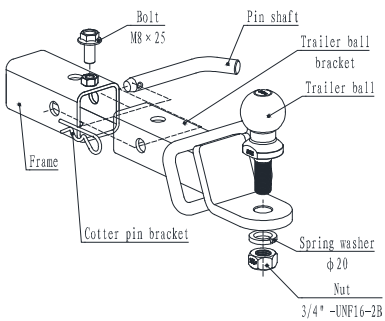
Pass the cable through the attachment point and clip it back on itself.

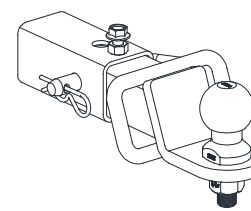
Or:

Attach the clip directly to the designated point, This attematlve must be specially permitted by the trailer manufacturer since the clip may not be sufficiently strong for use in this way.









WINCH OPERATION

If your vehicle is equipped with a winch, please read this manual before installation and use to understand and be familiar with the relevant safety precautions and operating instructions.

⚠ WARNING

The user must read and understand the operating instructions and warnings of this owner's manual. If the

instructions or warnings are not followed, serious property damage or personal injury may occur.

- It is strictly prohibited for people under the age of 16 years old to use this equipment.
- Before operation or during use, pay attention to the safety and environmental conditions within the operating range of the winch.
- Do not overload. Ensure that all equipment used meets the maximum rope pull force rating. We recommend using an optional pulley block, double rope using a pulley block double rope will help reduce the load on the winch, rope and battery. When using a double rope, the rated value of the pulley block should be two times the rope pull of the winch rating.
- Under heavy loads, do not operate the winch for long periods of time. Electric winches are only designed for intermittent use and, should not be used under constant load. Do not pull for more than one minute. If the winch motor feels very hot, stop the winch and let it cool down for a few minutes.

- **The rope end cannot bear the full load when fully extended, the rope must rotate around the drum at least 5 times.**
- Avoid pulling from extreme angles, as this will cause the rope to be rolled on one end of the barrel and may damage the rope or winch.
- Note that the rope-drawing capacity of the winch is the maximum rope- drawing capacity of the first layer, do not operate the winch with overload capacity past this amount of rope.
- Never hook the rope back to itself, otherwise the rope will become damaged. Use trunk protection protector.
- Before operation, make sure that the winch is firmly installed on the vehicle or bracket.
- Before moving heavy objects, check the rope to prevent kinks and uneven wire layers. The rope slack must be properly tightened under a weight of about 100Kg.
- When pulling the load, be sure to place a protective layer on the wire rope near the hook end. This will prevent the possibility of breaking the rope and help prevent serious injuries and damage.
- **Do not move the winch to assist in hauling heavy objects, it is easy to overload the winch and cause damage to the rope.**
- Pay attention to the dangerous area. Stay away from the danger area during winch operation.The dangerous area is the area that contains the winch drum, fairlead, rope, pulley block, hook and motor.
- When the winch is under load, do not approach or cross the rope.
- When using the winch to move the load, place the vehicles transmission in neutral and apply the brake of the vehicle and place wedges under each wheel. When the hoist is working, the vehicle engine should be operated to charge

the battery. Never use the winch with insufficient voltage.

- Never disconnect the power supply when there is a load on the winch.
- After the operation, release the load immediately and do not tighten the rope.
- Always stay away from ropes, hooks and winches when in operation or under load.
- Check winches, ropes, hooks, and broken strands of worn rope regularly. When handling the rope, please wear thick leather gloves. Do not let the rope slip over your hands. Check the rope before use.
- Crushed, pinched, worn or kinked areas seriously reduce the carrying capacity. A damaged rope should be replaced. It must be re-wound under a load of about 100 pounds.
- **The clutch should be disconnected first, and then the rope should be pulled by the hook of the protective lever. Do not pull the rope directly through the hook with your fingers.**
- Maintain the specified tension so that the rope can be wound on the reel and re-rolled after the operation tight.
- Do not operate the winch under the influence of alcohol or drugs. Be cautious during operation. If there is a problem, you should cut off the battery immediately and check it carefully.
- Wear goggles, insulating overalls, non-slip shoes, work caps, thick leather gloves, Place long hair tightly under a work cap and remove all jewelry.
- When the winch is in use, be sure to start the vehicle engine and set the gear position to "N."
- When the winch is working, it will draw voltage, so you must start the vehicle and step on the accelerator lightly to avoid damage to the battery.

- If severe noise or vibration occurs during the use of the winch, it must be stopped immediately
- When the winch is not used, please remove the controller.

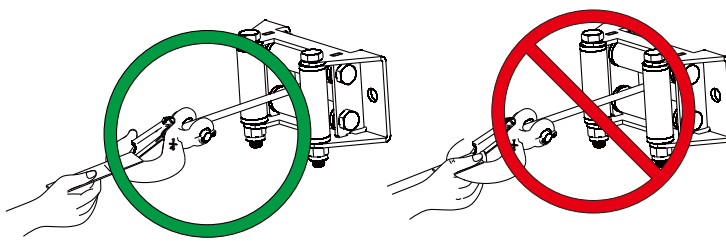
⚠ WARNING

When releasing or retrieving the winch rope, both ends of the rope must be left with sufficient

length to prevent the rope from being over-rolled in or out. When the rope is retrieving, please maintain a certain tension so that the wire can be retracted smoothly and can be wound tightly during retrieving.

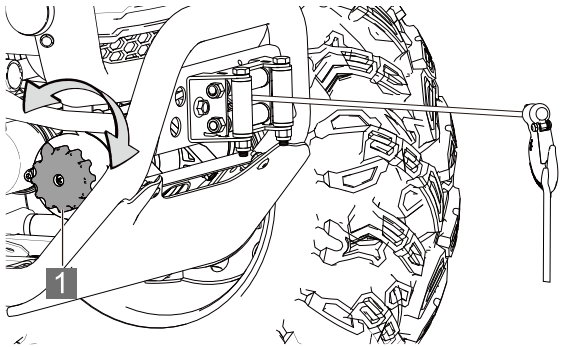
⚠ WARNING

Always use the tow rope to pull the hook, do not hold the hook with your hands. This is not only important when winding the wire rope, but also when removing the wire rope from the winch under power.



WINCH OPERATION

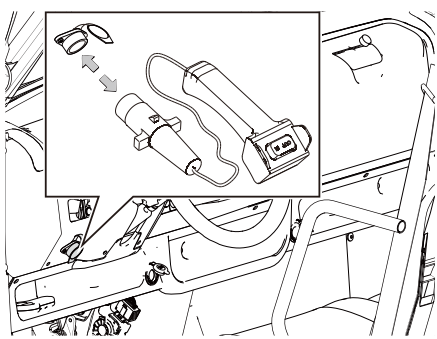
Manual Release switch of Winch



1 **Manual release switch of Winch**

- When the winch manual release switch is turned clockwise, the winch cable can be pulled out manually.
- When the winch manual release is switched (turned counterclockwise), the winch can be controlled by the switch.

Operation of control Switch

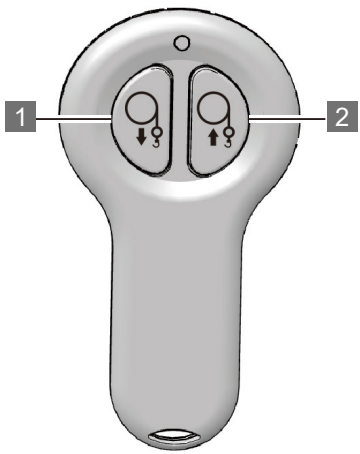


OUT：Release the winch cable **IN：Recoil the winch cable**

Remove the control switch from the passenger armrest storage and connect the control switch to the power interface of the winch located at the front of the vehicle.

1. Open the waterproof cover of the power interface of the winch switch.
2. Insert the control switch wire into the power interface.

Remote control operation



1 Release the winch cable

2 Reclaim the winch cable

NOTICE

When the remote control doesn't work, it may be that the battery in the remote control is exhausted. Replace the battery with a new one.

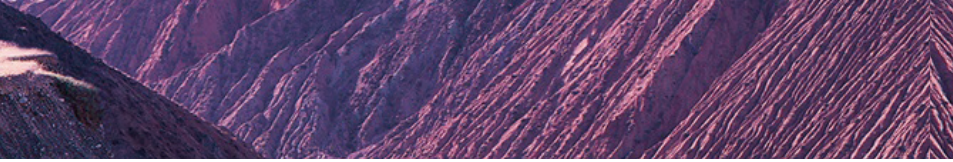
Press the 2 buttons simultaneously without moving for 3S to activate the remote control switch, the indicator light will flash 3 times.

Press 1 to release the winch cable, press 2 to retrieve the winch cable.

Press the 2 buttons simultaneously for 3S to turn off the remote control switch, the indicator light will go out.

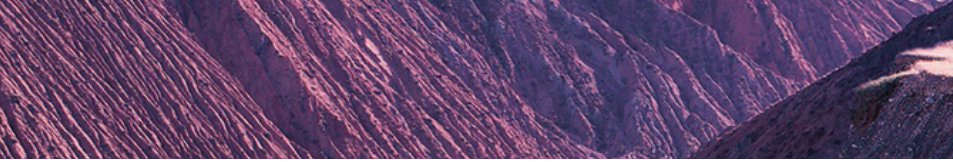
When using the winch, it is best to keep the winch rope in a straight line with the vehicle.Excessive angles can change the direction of pulling force and damage the rope;

if the winch generates serious noise or vibration during use, the winch operation must be stopped immediately.



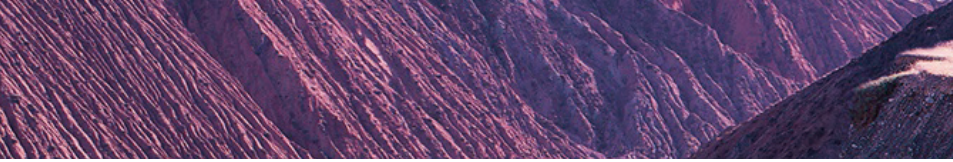
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MAINTENANCE,STORAGE AND TRANSPORTATION

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PERIODIC MAINTENANCE

Periodic maintenance will help keep your vehicle in the safest, most reliable condition. Inspection, adjustment and lubrication of important components are explained in the periodic maintenance chart.

Inspect, clean, lubricate, adjust and replace parts as necessary. When in the need for replacement parts, use genuine Segway Powersports parts available from your authorized Segway Powersports dealer.

Service and adjustments are important for proper vehicle operation. If you're not familiar with the service and adjustment procedures, have a qualified Segway Powersports dealer perform these operations.

Maintenance intervals in the following chart are based upon average riding conditions. Vehicles subjected to severe use and / or conditions must be inspected and serviced more frequently.

Severe use is defined as:

- **Frequent immersion in mud, water, or sand.**
- **Frequent or prolonged operation in dusty environments.**
- **Short trip cold weather operation.**
- **Racing or racing-style high RPM use.**
- **Prolonged low speed, heavy load operation.**
- **Extended idling.**

Maintenance Chart Key

Symbol	Description
►	Perform these procedures more often for vehicles subjected to severe use.
D	Have an authorized Segway Powersports dealer or other qualified person perform these services.

⚠ WARNING

Improperly performing the procedures marked with a D could result in component failure and lead to serious injury or death. Have an authorized Segway Powersports dealer or other qualified person perform these services.

Perform all services at whichever maintenance interval is reached first. Record maintenance and services in the Maintenance Log.

PRE-RIDE MAINTENANCE

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HOURS	CALENDAR	MILES (KM)	
	Steering		Pre-Ride		Visually inspect, test, or check components. Make adjustments and/ or schedule repairs when required
	Front suspension		Pre-Ride		
	Rear suspension		Pre-Ride		
	Tires/ Wheels/ fasteners		Pre-Ride		
	Brake fluid level		Pre-Ride		
	Brake system		Pre-Ride		
	Accelerator		Pre-Ride		
	Engine oil level		Pre-Ride		
	Air filter, pre-filter		Daily		Inspect. clean often. replace as needed
	Coolant		Daily		Check level
	Power steering unit (if equipped)		Daily		Inspect daily. clean often.
	Headlight/ taillight/ worklight		Daily		Check operation. apply dielectric grease if replacing lamps

BREAK-IN MAINTENANCE

	ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HOURS	CALENDAR	MILES（KM）	
	Fuel System	25 H	1 M	200 (320)	Break-in check: cycle key to pressurize fuel pump; check lines and fittings for leaks and abrasion
	Engine oil change	25 H	1 M	200 (320)	Break-in check: oil and filter change
	Front gearcase oil	25 H	1 M	200 (320)	Break-in check: oil level check
	Rear gearcase oil	25 H	1 M	200 (320)	Break-in check: oil level check

PERIODIC MAINTENANCE

Make sure to perform proper maintenance at recommended intervals as indicated in the tables. Some items of the maintenance schedule must be performed in function of the calendar, regardless of the distance or time of operation.

	ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HOURS	CALENDAR	MILES（KM）	
►	Brake pad wear	10 H	Monthly	100 (160)	Inspect periodically; replace as needed
	Battery	20 H	Monthly	200 (320)	Check terminals; clean; test
►	Air filter, main element	50H		500 (800)	Inspect; replace as needed; inspect frequently if subjected to severe use
►	General lubrication	50 H	3 M	500 (800)	Lubricate all fittings, pivots, cables, etc.
	Throttle Body Intake Duct	50 H	6 M	500 (800)	Inspect duct for proper sealing/air leaks
	Drive belt	50 H	6 M	500 (800)	Inspect; adjust; replace as needed
	Cooling system	100 H	12 M	1000 (1600)	Inspect coolant strength seasonally; pressure test system yearly
►	Engine oil change	100 H	12 M	1000 (1600)	Change the oil and filter

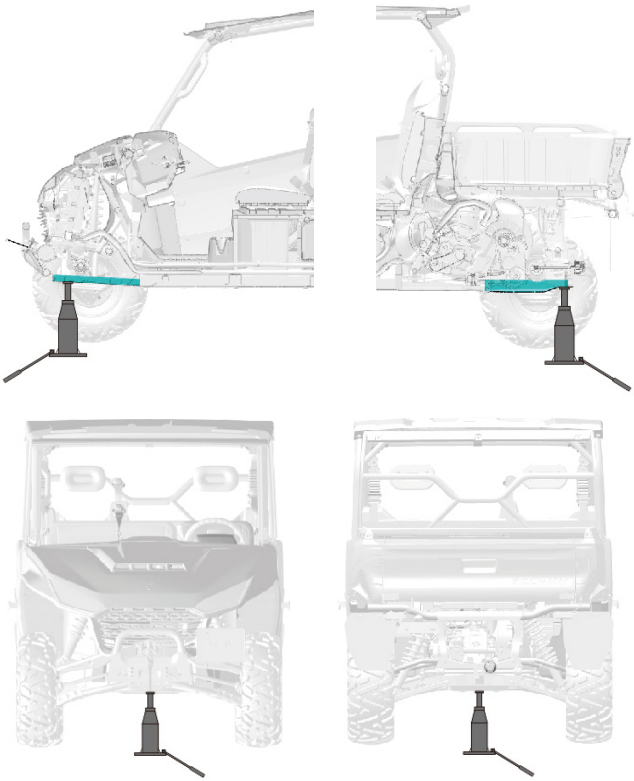
PERIODIC MAINTENANCE

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HOURS	CALENDAR	MILES(KM)	
►	Oil lines and fasteners	100 H	12 M	1000 (1600)	Inspect for leaks and loose fittings
►	Front gearcase oil	100 H	12 M	1000 (1600)	Change fluid;
►	Rear gearcase oil	100 H	12 M	1000 (1600)	Change fluid
D	Fuel system/filter	100 H	12 M	1000 (1600)	Cycle key to pressurize fuel pump; check for leaks at fill cap, fuel lines/rail and fuel pump; replace lines every two years
►	Radiator (if applicable)	100 H	12 M	1000 (1600)	Inspect; clean external surfaces
►	Cooling hoses (if applicable)	100 H	12 M	1000 (1600)	Inspect for leaks
►	Engine mounts	100 H	12 M	1000 (1600)	Inspect
	Exhaust muffler/ pipe / Joints	100 H	12 M	1000 (1600)	Inspect; clean; replace worn parts
D	Spark plug	100 H	12 M	1000 (1600)	Inspect; replace as needed
	Spark arrester	100 H	12 M	1000 (1600)	Clean out
D	Clutches (drive and driven)	100 H	12 M	1000 (1600)	Inspect; clean; replace worn parts
D	Front wheel bearings	100 H	12 M	1000 (1600)	Inspect; replace as needed
D	Brake fluid	200 H	24 M	2000(3200)	Change every two years
►	Coolant		60 M		Replace coolant
D	Valve clearance	500 H		5000(8000)	Inspect; adjust
	Idle speed				Adjust as needed
D	Toe adjustment				Inspect periodically; adjust when parts are replaced
	Headlight aim				Adjust as needed

LIFTING AND SUPPORTING THE VEHICLE

Place vehicle on a flat non slippery ground. Engage the 4WDmode. Ensure vehicle shift lever is set to PARK.

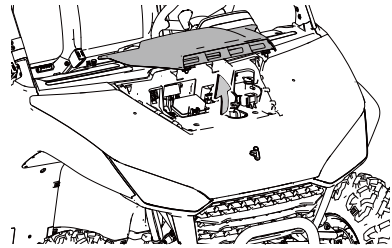
When lifting the front or rear of the vehicle, place the jack in the left and right center of the front or rear of the vehicle, as shown in the figure below：



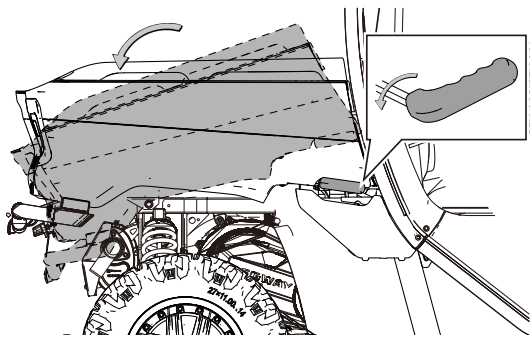
Schematic diagram of jack support position

FRONT SERVICE LID

Hold the front service lid and lift it upward. Open the lid.Fuse box, coolant filling port, located under the front service lid.



LIFT CARGO BED



The cargo bed release handles are available on the left and right sides of the vehicle.

Lift the cargo bed release handle to raise the cargo bed. The lock hook of the container will spring open. The cargo bed will slowly tilt upwards and stop automatically when it reaches the turning limit. Push down from the front of the cargo bed to lower and secure the latch.

⚠ CAUTION

Before lifting the container for unloading, open the tailgate of the cargo box first.

LUBRICATING OIL

Check and lubricate all components at the intervals listed in the periodic maintenance chart. Items not listed in the chart should be lubricated in the general lubrication interval. The rocker arm is lubricated at the factory and does not require additional lubrication. However, if these components are heavily used, the user may perform additional lubrication as required.

Project	Recommended model	Capacity		Inspection procedure
		SGW1000F-U2/U7	SGW1000F-U5	
Engine oil	SAE 5W-40 SN or higher	3300 mL	3300 mL	Maintain level in safe range on dipstick
Front Differential	SAE 80W-90 GL-5	260 mL	260 mL	Drive each 1243 mi (2000km) Kilometers.
Rear Differential	SAE 80W-90 GL-5	1400 mL	1400 mL	
Coolant		6500 mL	8000 ml	Maintain the level between the fill lines.
Brake fluid	DOT4			Maintain the level between the fill lines.
Suspension, balance bar Grease		——		Grease nozzle (2 Pump max) per 500 mile.

ENGINE OIL MAINTENANCE PROGRAM

Be sure to check and change the oil at the time required by the regular maintenance chart. Be sure to use the recommended engine oil. The oil filter must also be changed every time the oil is changed. Pay attention to the oil level. An increase in the oil level during cold weather can indicate contaminants collected in the oil sump or crankcase. If the oil level starts to rise, change the oil immediately. Monitor the oil level, if it continues to rise, stop using it and determine the cause. Your Segway Powersports dealer can assist.

⚠ WARNING

Vehicle operation with insufficient, degraded or contaminated engine oil will cause accelerated wear and tear, and may result in engine failures, accidents and / or injuries. Always perform the maintenance procedures listed in the periodic maintenance chart.

OIL RECOMMENDATION

The oil filter must be changed every time the oil is changed.

It is recommended to use 5W-40 SN four-cycle oil or similar oil for this engine. Follow the manufacturer's recommendations for ambient temperature operation. Please refer to the lubricant guide section for fluid recommendations, capacity.

⚠ CAUTION

Mixing brands or using non-recommended oils may cause serious engine damage. Always use the recommended oil. Never replace or mix oil brands.

When the temperature is below -15 ℃, it is recommended to replace the 0W-40/SN engine oil.

ENGINE OIL LEVEL CHECK

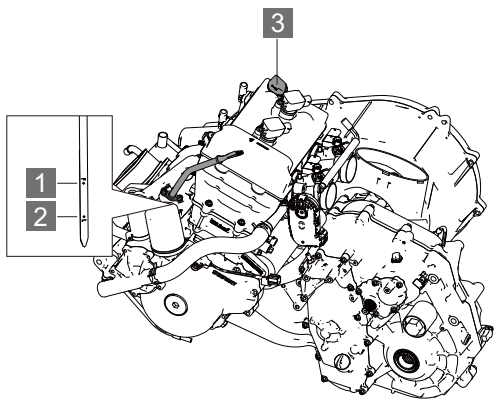
NOTICE

Running the engine with an improper oil level can cause serious engine damage.

Daily Oil Level Check

1. Position vehicle on a level surface and place the transmission in PARK.
2. Raise the cargo box, the oil dipstick is at the bottom.
3. Unlock the dipstick lever and pull it out.
4. Wipe the dipstick clean and re-insert it, then take it out and check the oil level.

Check the oil level as shown in the figure below. If the oil level is between the upper engraved line 1 and the lower engraved line 2 , it is the proper oil level. Below the lower scale means the oil is too low, and the upper scale means the oil is too full, too low or to full is not recommended.



1 Upper Line 2 Lower Line 3 Oil Filler cap

5. After cleaning the dipstick, reinsert and tighten the dipstick.
6. If the oil level is close to or lower than the MIN level mark, please refer to page 108 to add an appropriate amount of oil.

Oil Level Check After Oil Change

NOTICE

Note: This procedure is only for the new vehicle first oil level check or after an oil change in engine.

1. Position vehicle on a level surface and place the transmission in PARK.
2. Start the vehicle and let the engine idle for five minutes.
3. Stop the engine and allow it to cool down.
4. Removing the dipstick.
5. Wipe the dipstick clean and re-insert it, then take it out to check the oil level.

Check the oil level as shown in the figure below. If the oil level is between the upper engraved line 1 and the lower engraved line 2 , it is the proper oil level. Below the lower scale means the oil is too low, and the upper scale means the oil is too full, too low or to full is not recommended.

6. After cleaning the dipstick, reinsert and tighten the dipstick.

CHANGING ENGINE OIL & FILTER

NOTICE

Whenever changing oil change the oil filter.

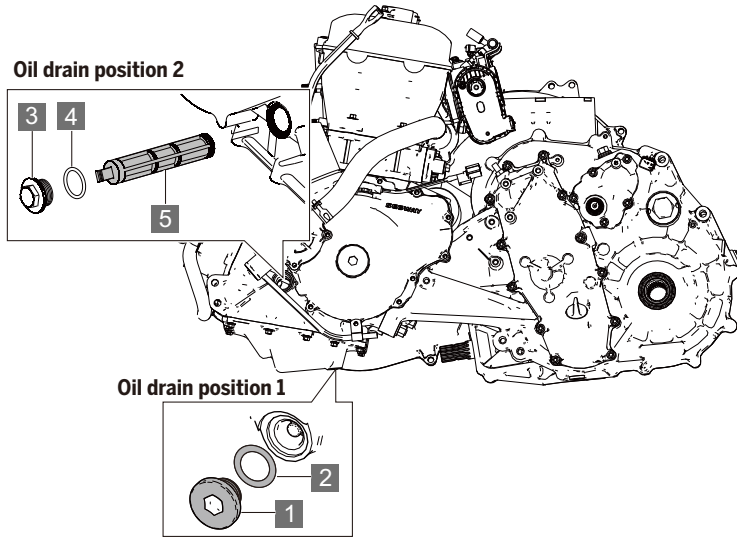
⚠ WARNING

The used engine oil contains potentially hazardous pollutants, which can cause causes skin diseases such as dermatitis and skin cancer, so care should be taken to avoid prolonged and repeated exposure to such oils. Wash the skin thoroughly with soap and water to remove the used engine oil.

The used oil and filter must be disposed in a safe and compliant way with environmental regulations. Do not dispose used oil and filters in domestic garbage, sewers or on the ground. For information on oil recycling or scrapping, please consult your Segway Powersports Powersports dealer.

Do not put used engine oil in a place where children can reach.

DRAIN THE ENGINE OIL



1 Oil Drain Plug 2 O-ring 3 Oil Filter Strainer
4 O-ring 5 Oil Drain Plug

There are two places on the engine where the oil can be drained, and both places should be drained, otherwise the waste oil cannot be drained completely.

Oil drain position 1

The oil drain position 1 is located at the bottom of the vehicle, under the engine

Oil drain position 2

The oil drain position 2 is located inside the left cover assembly. Remove the flange bolt M6×16 and step bolts on the left cover assembly first, then remove the left cover assembly, and the oil drain position 2 can be seen.

1. Put the vehicle on the horizontal surface.
2. Start the engine. Let it heat up for two to three minutes at idle.

⚠ WARNING

Hot oil can cause skin burns. Don't let hot oil touch the skin

3. Place a suitable container under the oil drain plug 1 to collect the discharged waste oil
4. Remove the oil drain plug 1, remove the O-ring and wait for the waste oil to drain completely
5. Place a suitable container under the oil drain plug 3 to collect the discharged waste oil
6. Remove the oil drain plug 3 and remove the O-ring 4
7. Take out the oil filter strainer 5 and clean the oil filter. See P112 for details
8. Wait for the waste oil in drain position 1 and drain position 2 to drain completely

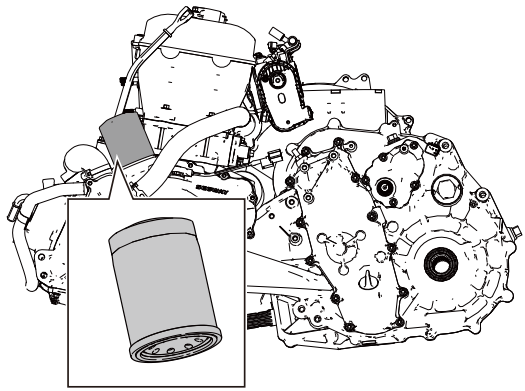
Torque	Drain Plug: 11.8-14.8ft·lb. (16~20N.m)

REPLACE OIL FILTER/OIL STRAINER

IMPORTANT
Change the oil filter and clean the oil strainer with each oil change

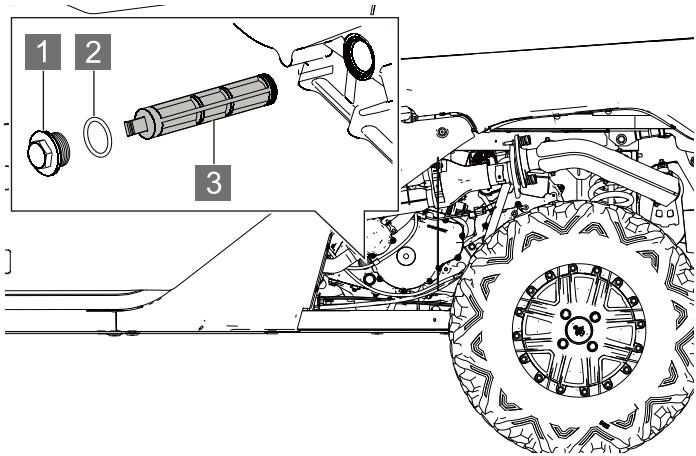
Change the Oil filter

The oil filter is under the cargo box, Refer to fluid recommendations for capacity and plug torque. Always change the filter at the same time you change the engine oil.



1. Using a oil filter wrench, turn the filter counter-clockwise to remove it.
2. Using a clean dry cloth, clean the filter sealing surface on the crankcase. Make sure the old filter o-ring is completely removed.
3. Lubricate the o-ring on the new filter with a film of fresh engine oil. Check to make sure the oring is in good condition.
4. Install the new filter.

OIL STRAINER CLEANING

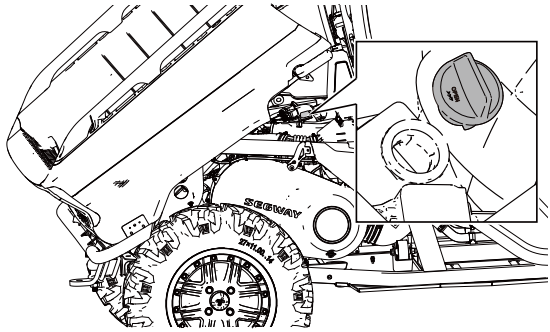


1 Oil drain plug 2 O-ring 3 Oil filter

Torque	Oil drain plug: 16~20N.m

1. Remove the drain plug, take off the O-ring, and remove the oil strainer.
2. Clean the strainer and allow to dry.
3. Install new O-rings and reinsert the clean oil strainer

ADD ENGINE OIL



Turn the open the cargo boxr, and add engine oil cover underneath.

1. Unscrew the oil cap counterclockwise.
2. Add an appropriate amount of the recommended type of oil type and be careful to do not overfill it. The correct oil level is between the upper level and the lower level marks on the dip stick.
3. Retighten Replace the oil cap.
4. Put the gear shifter in “park”.
5. Lock the parking brake.
6. Start the engine and leave let it idle for 5 minutes.
7. Stop the engine.
8. Check for any leaks.
9. Check the oil level and add oil as needed to make the oil level reach the mark on the dipstick.
10. Properly handle dispose any used filters and oil.

FRONT/REAR GEARBOX (DEMAND DRIVE) FLUID

Check and replace the demand drive fluid at intervals in the periodic maintenance chart. Replace the front gearbox fluid every 25 hours if the 4WD unit is exposed to extreme use. Extreme use includes any of the following:

Continuous 4WD operations running

in mountain or mountain areas for long periods of time in 4WD mode 4WD is the primary mode of all-wheel drive operations.

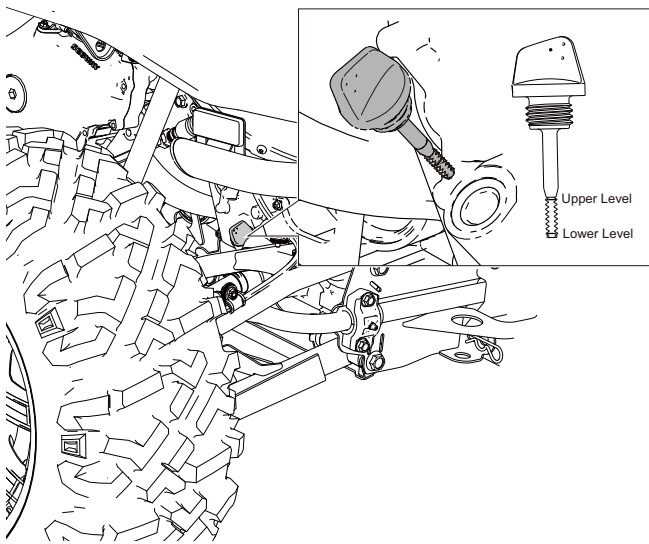
NOTICE

If the front gearbox makes too much noise during 4WD operation, change the demand drive fluid. If the noise continues, see your Segway Powersports dealer.

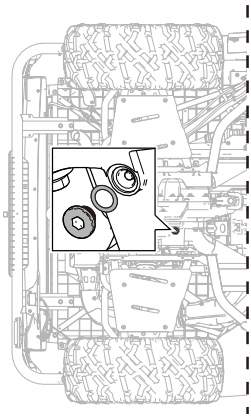
Use the recommended oil type. The use of other oil may result in improper operation. Maintain oil level to the bottom of filling hole thread.

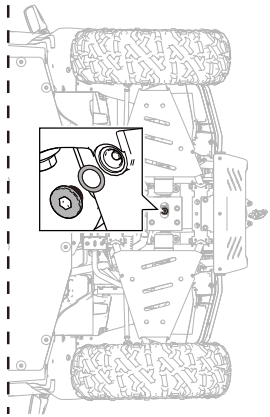
CHECK THE REAR GEAR BOX OIL LEVEL

1. Park the vehicle on the level ground. Put the vehicle to a stop.
2. With a rag, remove and pull out the oil dipstick.
3. Clean the dipstick.
4. Re-insert the dipstick completely.
5. Check the oil level as shown in the figure above. The oil should be in the gradient marks. Add if the oil level is low.
6. Wipe the dipstick before reinstalling.



FRONT/REAR GEARBOX OIL CHANGE

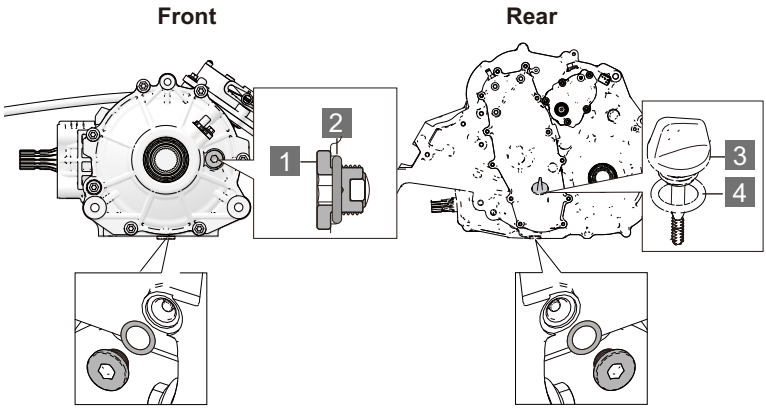




1. Place a container below the vehicle oil discharge to collect the waste oil.
2. Position the vehicle on a horizontal surface and remove the drain plug and O-ring.
3. After the oil discharge is completed, reinstall the injection plug and O-ring, and tighten to the specified torque.
4. Properly dispose of the discharged waste engine oil.

Discharge plug torque	Drain Plug: 16-20N.m

ADD GEAR OIL



1 Filling Plug 2 o-ring 3 Oil Dipstick 4 o-ring

Injection plug torque	16-20N.m

1. Position the vehicle on a horizontal plane.
2. Place the drain tray under the differential.
3. Remove the drain plug.Allow the fluid to drain completely.
4. Clean and reinstall the drain plug.
5. Torque to desired value.
6. Remove fill plug
7. Add the recommended amount of oil.
8. Reinstall the fill plug
9. Torque to desired value.
10. Check for any leakage.
11. Dispose used oil properly.

CVT BELT

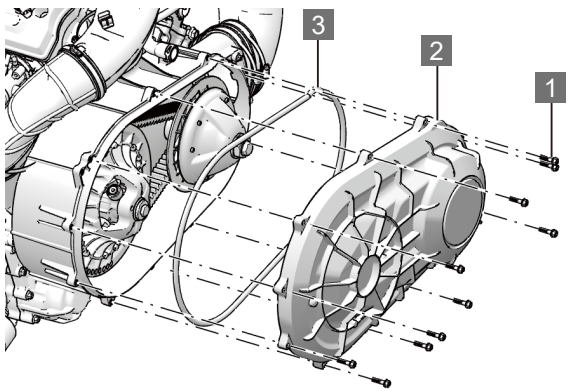
Replace the CVT drive belt according to the specified time listed in the vehicle maintenance schedule. If the belt is damaged, it should be replaced.

When replacing the belt, clean the CVT housing pipe, clutch and the engine compartment for debris.

⚠ WARNING

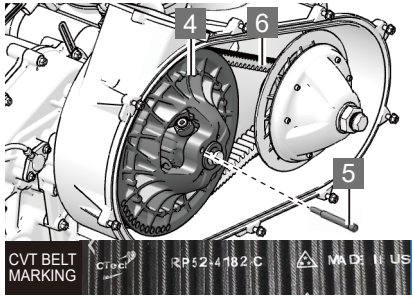
Failure to remove all debris when the belt is replaced can result in vehicle damage, loss of control and serious injury or death

Stop the engine before replacement and allow the vehicle to cool down.



1 **CVT outer cover bolt**
2 **CVT outer cover**
3 **CVT cover seal**
4 **Driven pulley**
5 **CVT belt replacement tool**
6 **CVT belt**

1. Remove the CVT outer cover bolts, outer cover and the sealing ring.



2. With the kit-out pin for driven pulley(special tool) against the driven wheel as shown in the figure of the hole, make the driven wheel open.

3. Take out the drive belt to be replaced, and clean up the debris in the CVT compartment.

⚠ CAUTION

Before removing the drive belt, please note the direction of the marks on the drive belt (such as manufacturer name, arrow mark, etc.) so that the drive belt can be reinstalled on the pulley in the original direction.

Install the drive belt

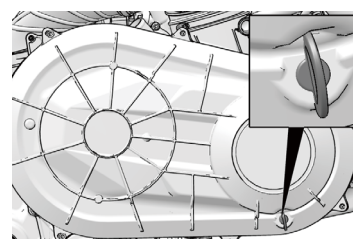
The installation steps are basically the reverse of the removal.

1. Wrap the drive belt around the CVT driving wheel.
2. Use the CVT belt replacement tool to open the CVT driven pulley, wind the drive belt into the CVT driven pulley.
3. Install the CVT sealing ring and the CVT outer cover, tighten the CVT outer cover.

CVT cover bolt Torque	7.4 ft·lb. (10 N.m)

DRYING THE CVT

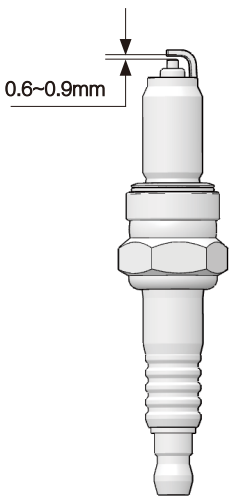
In some cases, the water may soak into the CVT system and must be dried out it before driving.



1. Remove the CVT clutch drain plug.
2. Wait for the water to drain out and reinstall the water drain plug.
2. Start the engine.
3. Increase the engine speed and maintain it for 10-15 seconds to remove the excess moisture and dry the belt and CVT. DO NOT fully open the throttle during this operation.
4. Shift gears to the low range and test for belt slippage.
5. If the belt still slips, repeat the process.
6. Visit your Segway Powersports dealer if your vehicle needs service.

SPARK PLUG

Refer to the specification below for the recommended spark plug type and clearance specifications.



⚠ CAUTION

The use of anything but the recommended spark plug can cause serious engine damage. Always use the recommended spark plugs or their equivalents.

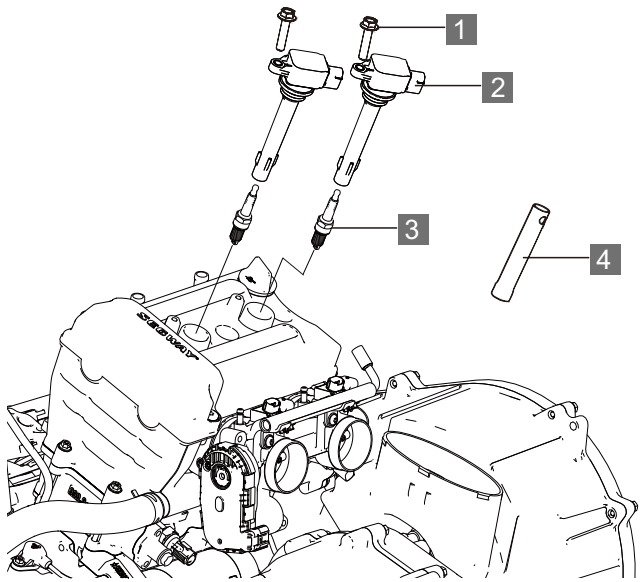
Spark Plug	
Model	NGK CPR7EA / TORCH B7RTC
Spark Plug Gap	0.6-0.9 mm
Spark Plug Torque	8.8 ft. lbs. (12 N·m)

SPARK PLUG INSPECTION

The spark plug condition indicates how the engine is running. Check or change the spark plugs within the maintenance time shown in the periodic maintenance schedule.

⚠ CAUTION

Allow the engine to cool before attempting to remove the spark plug for inspection. Hot exhaust system and engine will cause burns.



1 **Bolt** 2 **Ignition coil**

3 **Spark plug** 4 **Spark plug**

The spark plug is located under the cargo box. When replacing the spark plugs, please replace both spark plugs at the same time.

1. Remove the ignition coil fixing bolts.
2. Take out the ignition coil, The spark plug is located below the ignition coil.
3. Using the spark plug wrench provided in the took kit, remove the plugs by rotating them counterclockwise.
4. Reverse the procedure for spark plug installation. Torque to specification.

Normal spark plug : The electrode part is grayish white, grayish yellow or light brown, and the electrode gap is about 0.6-0.9mm.

If the spark plug shows electrode wear, carbon deposits or, clearance is too large replace the spark plugs.

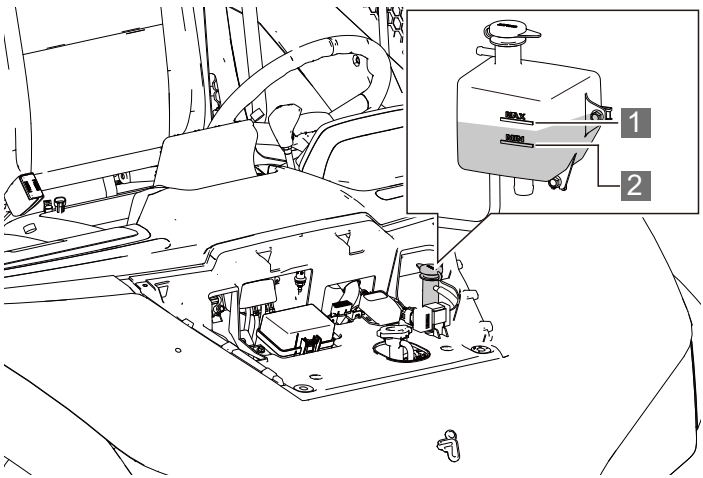
COOLANT

The coolant circulates in the engine cooling system, taking away the excess heat generated during the engine operation and making the engine operate at normal operating temperature. Maintaining the coolant will allow the cooling system to work properly and prevent freezing, overheating, and corrosion. Therefore, the coolant should be frequently checked. The factory provides a 50/50 solution of antifreeze and water in this vehicle. This coolant solution is recommended for most operating temperatures and provides good corrosion protection.

COOLANT BOTTLE

The coolant bottle is located under the front access cover.

1. Check the liquid level of the coolant bottle from the lower left side of the front panel of the vehicle.
2. If the liquid level is low, add the corresponding type of coolant.Coolant should be in the bottle remain level between minimum MIN and maximum mark MAX on the liquid (as the liquid cools).



1 **MAX** 2 **MIN**

3. Unscrew the lid and pour in the new coolant. Pay attention to the position of coolant when pouring. Do not exceed the maximum liquid level.
4. Reinstall the cover.
5. Cover the front maintenance cover .

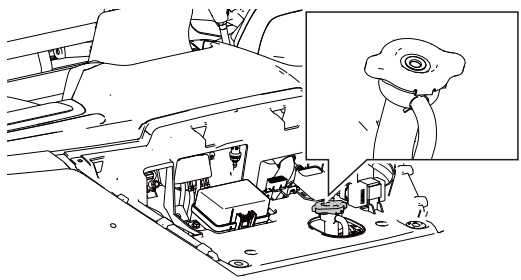
RADIATOR COOLANT

To ensure that the coolant maintains its ability to protect the engine, we recommend the system each five (5) years completely drained and new antifreeze 50/50 premix added.

⚠ CAUTION

Steam escaping can cause burns.Do not disassemble pressure relief cap when there is temperature or heat in the engine.The engine must be allowed to cool down before the pressure cap is removed.

Use fresh antifreeze when any cooling system fluid is removed for maintenance or repair 50/50 premix to replace coolant.If the recycling bottle has dried up, check the radiator The liquid level. Add coolant as needed.



1. Remove the ventilation hood.
2. Remove the pressure cap.
3. Use a funnel and slowly add coolant through the radiator filling port.
4. Reinstall the pressure cap.The use of non-standard pressure caps will affect the normal operation of recovery system.

Your dealer can provide the correct replacement parts.

BRAKE SYSTEM

The front and rear brakes are hydraulic disc brakes that are activated by pressing the brake pedal with your foot. These brakes are self-regulating. As the brake pads wears away, the brake fluid level will drop. Leakage in the system will also cause the fluid level to drop.

⚠ WARNING

Brake fluid levels must be checked periodically.

Overfilling of the brake cylinder may cause brake resistance or brake locking, which may result in serious injury or death.

Keep the brake fluid at the recommended level and do not overfill.

Must check brake disc brake disc wear condition regularly.

The following inspection is recommended to keep the braking system in good working condition. If the brake is in heavy use during normal operation, check it frequently.

1. Always keep the brake fluid at an appropriate level. Please refer to master cylinder/brake fluid section for details (page 125).
2. Check the braking system for liquid any leakage.
3. Check whether the brake travels pedal stroke feels too long or feels soft.
4. Check whether the friction gasket is worn, damaged or loose. When replacing the brake gasket, the brake pad must be replaced when the remaining limit thickness of the brake pad is not less than 1.5mm.
5. Check the safety and surface condition of the disc. Use the recommended brake cleaner to clean any grease. Do not use spray lubricants or other petroleum-based products. If any damage (crack, excessive corrosion, warping) is found, please check the dealer's service before operation with your Segway Powersports dealer befor further operation.

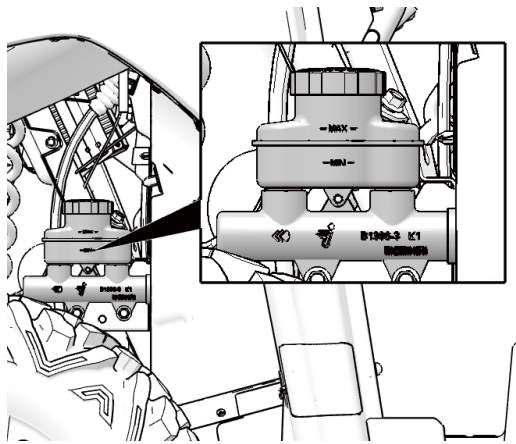
BRAKE FLUID

Use the recommended brake fluid:

Brake Oil	DOT4

No adjustment is required for the hydraulic assisted braking system. Check the brake oil level of the auxiliary braking system frequently. If the level is shown to be low, perform the following operations. The brake oil cup is located below the front panel.

1. Observe the liquid level in the container.



MAX Level **MIN Level**

3. The brake fluid level is most suitable between the Max and Min level indicators. If it is lower than the Min indicator, add the recommended brake fluid and observe the fluid level.
4. Check whether the brake pads are worn.

NOTICE

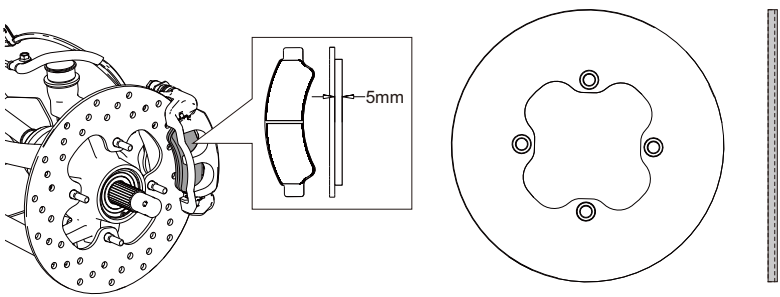
Brake fluid can damage plastic and painted surfaces and should be added with caution.

If the brake fluid comes into contact with the skin or eyes, flush with plenty of water immediately. If you feel sick, seek medical attention immediately.

BRAKE LINING AND BRAKE DISC

The wear of brake linings and brake discs will depend on the severity of usage and driving conditions. Brake linings wear faster in wet and muddy conditions. Regularly check the wear of the brake lining and brake disc according to the maintenance schedule. If the wear of the brake lining and brake disc exceeds the required value, the brake lining and brake disc must be replace.

Brake components thickness	Standard thickness	5.0 mm
	Minimum thickness	1.5 mm
brake discs thickness	Standard thickness	5.0mm
	Minimum thickness	4.0mm



TIRE

TIRE PRESSURE

Driving a vehicle with the incorrect tire pressure may result in the following consequences:

- Reduced fuel efficiency
- Reduced driving comfort and shortened tire life
- Reduction in safety reduction

When checking tire pressure, use the following instructions:

	Model / Tire size	SGW1000F-U2/U7	SGW1000F-U5
Recommended tire pressures	Front wheels 27×9.00-14	15 psi (103 kPa)	15 psi (103 kPa)
	Rear wheels 27×11.00-14	16 psi (110 kPa)	17.4 psi (120 KPa)
	Front wheels 30×10.00R14	——	10 psi (70 kPa)
	Rear wheels 30×10.00R14	——	16 psi (110 kPa)

- Allow the tire cools down before checking pressure.
- If the vehicle has been parked for at least 3 hours, or has not driven more than 1.5km, the check at this time can get an accurate reading of the cold tire inflation pressure.
- Tire appearance can sometimes be misleading. Even a few pounds less air in a tire can affect driving and handling performance.
- Increased tire pressure is normal after driving, do not reduce the tire pressure after driving.

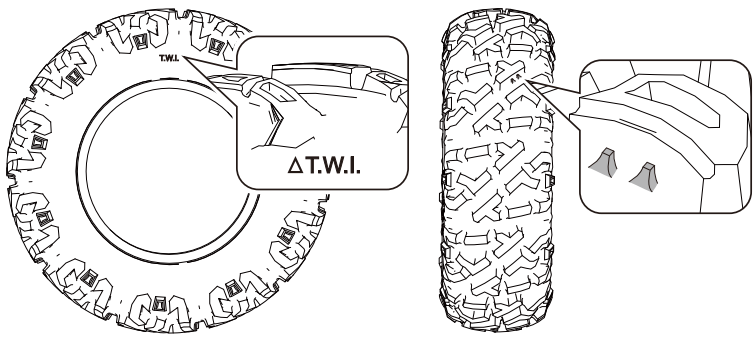
TREAD DEPTH

Inspection method 1：

- Observe the tire wall to find the Tire Eear Indicator (TWI) or "△", follow the triangle sign to see limit. When the tread reaches the top of the indicator, it is time to replace the tire(s).

Inspection method 2:

Check the wear condition of tire tread block. When the wear condition of tire tread block is at least 1.6mm higher than trad, replace the tire.



When to Replace a tire:

- If tire is damaged, such as a cut, delamination, or a deep crack of the sidewall, or a bulge is all indications that the tire is damaged.
- Tires can have air leaks and cannot be normally repaired due to the size or position of the area of the leak. If you are not sure, consult your Segway Powersports dealer.

REPLACE THE TIRES

When the tire tread wear has reached the replacement mark or the tire is damaged due to an external impact, the damaged tire should be replaced.

WHEEL REMOVAL



Torque to Specification:

Torque	Mounting nuts: 100~120N·m

1. Stop the engine.
2. Put the gear shifter in "P" position.
3. Lock parking brake.
4. Lift the side of the vehicle by placing a suitable jack under the frame.
5. Loosen the four hub mounting nuts.

6. Remove the wheel.

⚠ CAUTION

Loosening the nut may cause the tire to fall off during operation, which may cause accidents or overturning. Always ensure that all nuts are tightened to the required value.

Do not use lubricating oil or grease on wheel bolts or wheel nuts. Lubricating oil or grease may cause excessive tightening of wheel nuts, resulting in damage to bolts or spoke wheels. In addition, lubricating oil or grease can cause wheel nuts to loosen and the wheels may fall off, leading to accidents and serious injuries. Remove any lubricating oil or grease from the wheel bolts or wheel nuts.

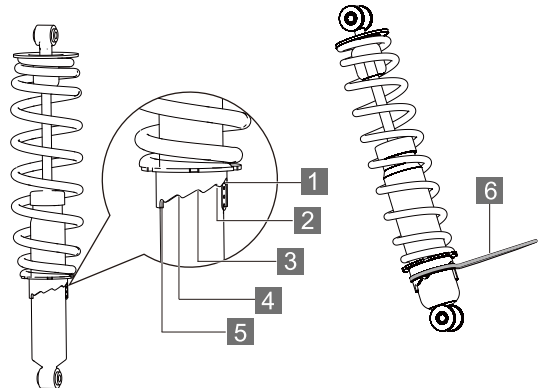
TIRE REPLACEMENT SIZE

⚠ WARNING

Do not use wheels of different sizes than recommended in the User's Manual as this can cause the vehicle to lose control.

Applications	The front wheel	The rear wheel
SGW1000F-U2/U7 SGW1000F-U5	27×9.00-14	27×11.00-14
SGW1000F-U2/U7 SGW1000F-U5	27×9.00 R14	27×11.00 R14
SGW1000F-U5	30×10.00 R14	30×10.00 R14

SHOCK ABSORBER ADJUSTMENT



The spring adjustment sleeve of the hydraulic shock absorber there are 5 adjustment positions, the spring can be adjusted according to different terrain and loading conditions, if you feel too soft and too hard, it can be adjusted by the spring table adjustment.

Position 1 :
Standard position.

Position 2 ~ 5 :
When vehicle load is heavy, it can be adjusted to this position.

Position	Spring	Environment	Load	Terrain	Speed
1	Soft	Soft	Light	Flat	Low
2	↑	↑	↑	↑	↑
3					
4	↓	↓	↓	↓	↓
5	Hard	Hard	Heavy	Bumpy	High

Use crescent wrench 6 to adjust the impact spring pressure.

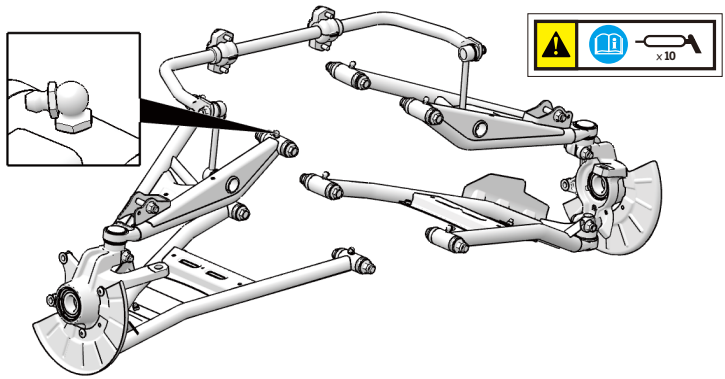
⚠ CAUTION

When adjusting the shock absorption position, always adjust the left and right shock absorption to the same position. Step up or down one position at a time during adjustment. Do not try to make large adjustments, which may damage the shock absorber.

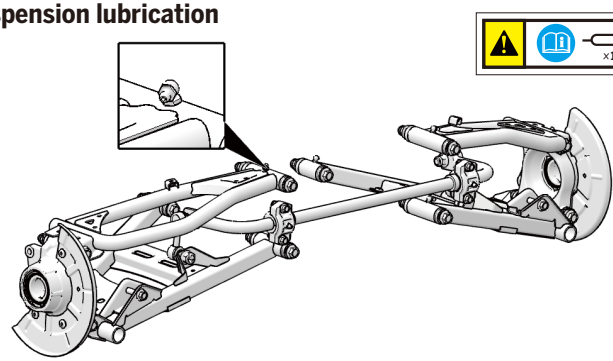
LUBRICATION

The front suspension, rear suspension, transmission shaft, and balance shaft components of the vehicle are all equipped with grease fittings. These components require sufficient lubrication during vehicle operation. Adding suitable grease according to the maintenance schedule can reduce wear and prolong service life of these components.

Front suspension lubrication

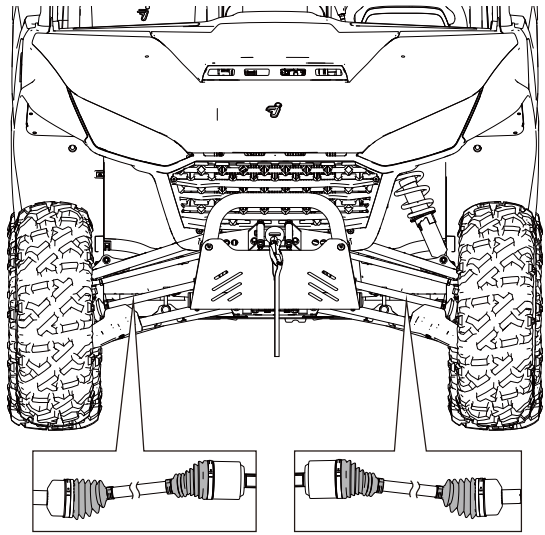


Rear suspension lubrication



FRONT/REAR DRIVE AXLE DUSTCOVER

Check for cuts, damage or grease leakage in the front and rear drive axle dust boots. If you find an damage or grease leakage, please contact your Segway Powersports dealer for replacement.



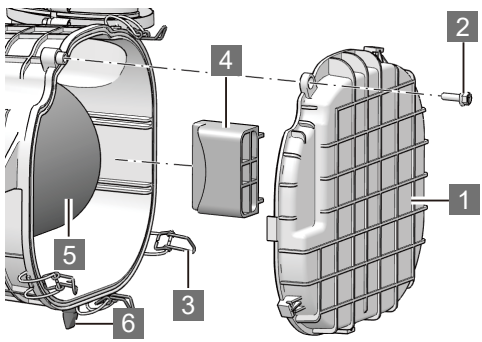
AIR FILTER

The vehicle utilizes a two-stage air filtration system. The air passes through the primary filter first and then the secondary air filter last. This two-stage air filtration system fully meets the needs of the engine.

The air filter core shall be replaced regularly according to the periodic maintenance table. The primary filter screen must be cleaned every bime the air filter core is replaced.

REPLACING AIR FILTER ELEMENT

The air filter needs to be replaced after being used for a period of time. Please refer to the maintenance schedule for details. Replace the air filter when necessary.



1 **Air filter outer cover**
2 **Bolt**
3 **Snap fastener**
4 **Filter element stop block**
5 **Air filter element**
6 **Filter leakage plug**

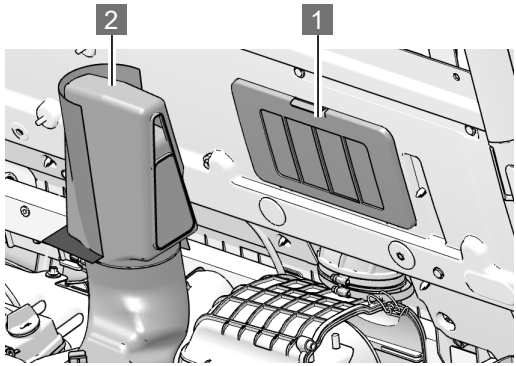
The air filter is located under the cargo box. Turning the cargo box over and opening it, you can see the air filter.

1. Unscrew the bolt above the outer cover of the air filter.
2. Press the buckle of the air filter cover and remove the air filter cover
3. Pull out the filter element stop block from the slot and remove the air filter element,
4. If there is water filtering inside the air filter, remove the water leakage plug below the air filter, clear the accumulated water in the air filter, and clean the impurities inside the air filter
5. Clean or replace the air filter element based on its cleanliness.
6. Reinstall the air filter element, filter element stop block, and air filter cover.

⚠ WARNING

When assembling the filter element, please ensure that the buckle and end cover of the filter element are installed in place, otherwise it may cause engine failure or reduce its service life. When driving in a dusty environment, please shorten the time interval for checking the filter element. If the air filter is soaked or the filter element is damp, please drain the water from the air filter and replace the filter element.

AIR FILTER INTAKE AND CVT AIR INTAKE



1 **Air filter intake** 2 **CVT air inlet**

Check the air filter intake and CVT air intake before each drive.

The air filter inlet cap and CVT inlt mesh fabric is located at the bottom right of the cargo box, turn the cargo box over to open. clean it if necessary, and replace it if damaged.

LAMP

⚠ CAUTION

Poor lighting can result in reduced visibility while driving. Please clean the headlamps frequently and replace non-working headlamps promptly.

To ensure optimum visibility and saftey, make sure the lights are properly adjusted.

CHANGE THE HEADLIGHT

LED lights

LED lights consist of multiple lights. If any LED burns out, please send the vehicle to the dealer for replacement.

Halogen lamp

If the halogen bulb is damaged, it can be replaced. You can replace the following lamps yourself. The ease of replacement varies according to the bulb types. Due to possible damage, we recommend that the parts are better to be replaced by the dealers.

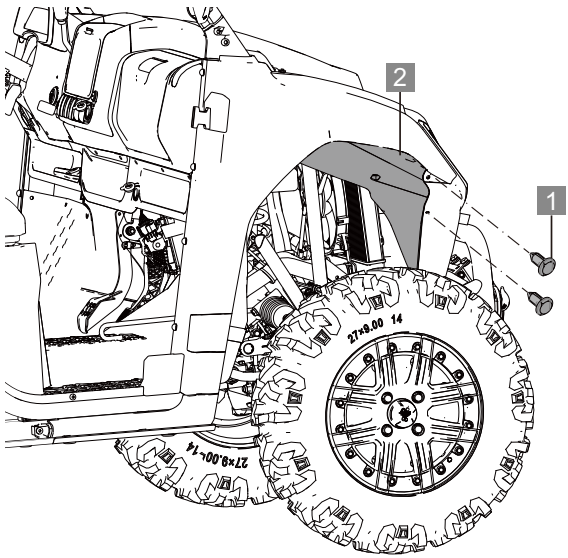
⚠ CAUTION

Hot ingredients can cause skin burns. Allow the lights to cool before doing maintenance.

DO NOT touch the headlight shade bulb glass. Fingerprints on the glass can to cause premature failure.

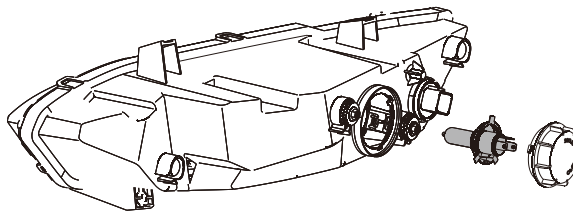
Execute the following procedure:

1. Remove the headlamp shade expansion screw and remove the headlamp cover with the tool.



1 **Expansion screw** 2 **Headlight guard**

2. Twist clockwise and turn off the cover of the headlamp.
3. Remove the wire harness connector on lamp and take out the broken bulb.



4. Press the fixed spring on both sides to make the spring pop out of the slot.
5. Remove the broken light bulb.
6. Reinstall the new light into the new bulb and turn on the headlight.
7. Test whether headlight is working properly.

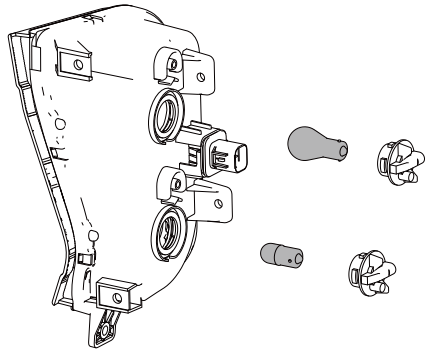
⚠ CAUTION
Please replace lamp with the recommended power.

Reinstall the new lamp into the new headlight assembly. The installation procedure is opposite to the disassembly procedure. After installation, turn on the headlight switch to test whether the lamp is working properly.

REPLACE TAILLIGHT/REAR TURN LIGHT

Procedures for changing taillights:

Remove rear light cover.



1. Unscrew the rear light holder.
2. Turn the bulb that needs to be replaced on the taillight seat from left to right. When the limit bead at the end of the bulb gets stuck in the limit slot of the lamp seat, the damaged bulb can be taken out and replaced with a new bulb with the same power.
3. Test whether the lamp works normally.

HIGH BEAM ADJUSTMENT

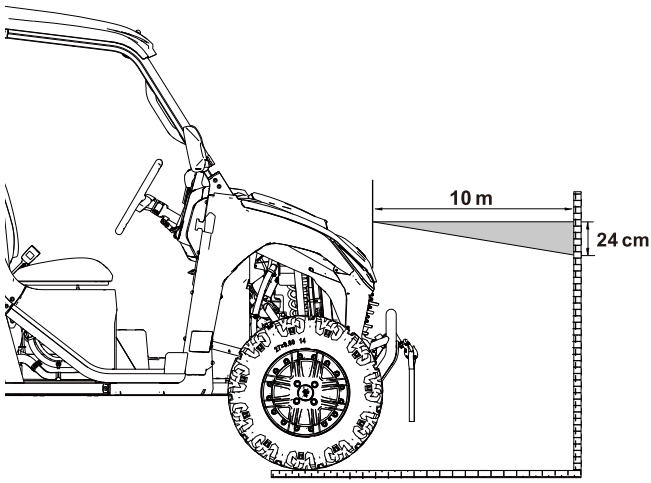
The headlight beam can be adjusted slightly up/down. Use the following procedure to make adjustments.

⚠ CAUTION

The following pictures are for reference only. Your model may be slightly different.

It is best for a Segway dealer to adjust if conditions permit.

1. Place the vehicle on a level surface with the headlight approximately 10 m from a wall.

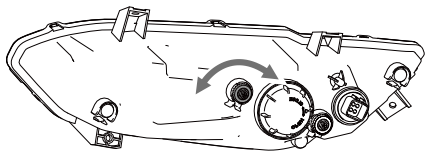


2. Measure the distance from the floor to the center of the headlights and mark the walls at the same height.
3. Apply the brakes. Start the engine. Turn on the headlights.
4. Observe the headlight aim. The most intense part of the headlight beam should be aimed 24cm below the mark placed on the wall. Include the weight of a rider on the seat while performing this step.
5. If a headlight needs adjustment, locate the adjustment screw at the back of the headlight.

Adjust the headlight beam upwards and downwards

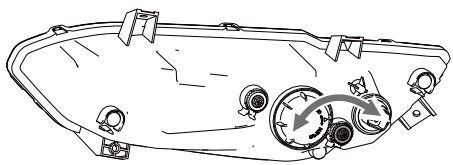
To raise the headlight beam, turn the headlight adjusting screw counterclockwise.

To lower the headlight beam, turn the headlight speed adjustment screw clockwise.



Adjust the headlight beam left and right

The headlight beam can be adjusted from left or right.



To turn the headlight beam to the left, turn the headlight adjustment screw counterclockwise.

To turn the headlight beam to the right, turn the headlight speed adjustment screw clockwise.

SPARK ARRESTER

Spark arrester prevents random sparks from entering other parts of the vehicle. Regular maintenance can prevent carbon accumulation, maintenance will reduce engine performance if the maintenance is not done.

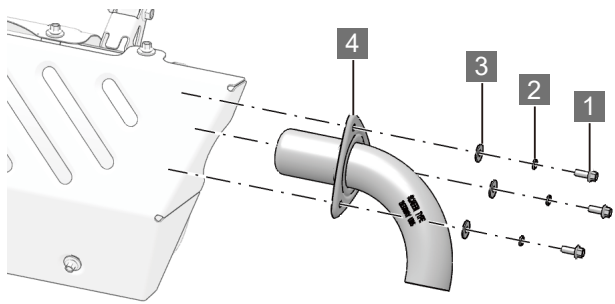
⚠ WARNING

Make sure the exhaust pipes are cool.

Ensure that there are no combustible materials in the area when maintaining the vehicle.

Safety glasses are recommended in this procedure.

The exhaust pipe must be cleaned periodically of any accumulated carbon :



1 **bolt M6 * 16 (3 pieces)**
2 **spring washer (3 pieces)**
3 **flat washer (3 pieces)**
4 **muffler spark eliminator**

1. Remove three M6 * 16 bolts, spring washers, and flat washers.
2. Start the engine and increase its speed about 20 times, while blocking the end of the muffler with a towel, instantly generating exhaust system air pressure;
3. Allow the engine exhaust pipe to cool down.
4. Use a soft brush to remove carbon deposits on the spark eliminator mesh.
5. Follow the reverse procedure of disassembly to reinstall the spark arrester and tighten the fixing screws.

BATTERY

Due to natural discharge and leakage effects of some electrical equipment, the 12V battery will discharge gradually even when the vehicle is not in use. If the vehicle is parked for a long time, the 12V battery may discharge and may not start. Please charge the battery slowly one time a month if not in use. This will maintain the battery life cycle.

⚠ WARNING

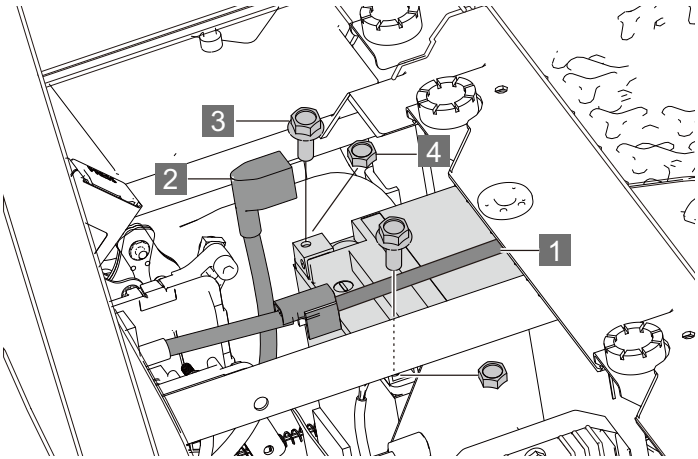
12V batteries contain toxic and corrosive sulfuric acid and may produce flammable explosive hydrogen gas.To reduce the risk of serious injury or death, the following precautions should be observed when handling 12V batteries or working near them:

- **Do not smoke or light a match near a 12V battery.**
- **Avoid splashing electrolyte on eyes, skin and clothes.**
- **Wear safety goggles when working near 12V battery.**
- **Keep children away from 12V batteries.**
- **Be sure to charge the 12V battery in an open area.Do not charge a 12V battery in a poorly ventilated garage or enclosed room.**

BATTERY REMOVAL

NOTICE

If the electrolyte overflows, immediately wash it off with a solution of 1 tablespoon baking soda and 1 cup water to prevent damage to the vehicle.



The battery is located under the passenger seat in single cab vehicles and in the middle of the rear seat in crew cab vehicles, remove the seat and perform the following procedure:

Turn the power off before removing battery.

1 **Battery pull strap** 2 **Protective rubber sleeve**

3 **Positive and negative anchor bolts for cable**

4 **Positive and negative anchor nuts for cable**

1. Remove the 2 battery pull straps
2. Turn up the Protective rubber sleeve.
3. Remove the battery negative pole screw and disconnect the black (negative) battery cable.
4. Remove the battery positive pole screw and disconnect the red (positive) battery cable.
5. Remove the battery.

BATTERY CHARGING

NOTICE

When charging, the hydrogen produced by the 12V battery is combustible explosive gas. Please follow the following precautions before charging:

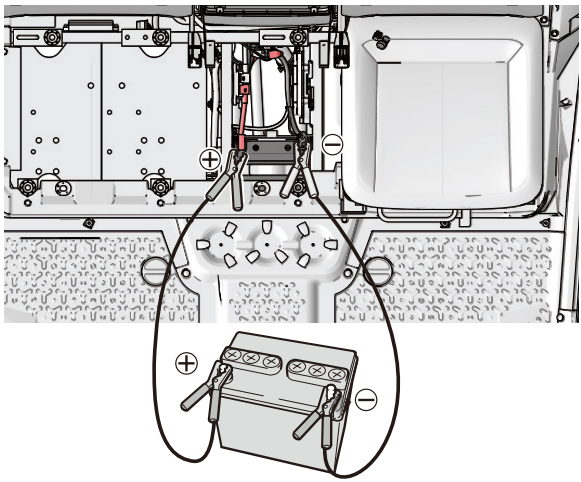
If charging the 12V battery is still installed in the vehicle, be sure to disconnect the ground cable.

Make sure the power switch on the charger is off when connecting and disconnecting the charger cable to the 12V battery.

Only charge slowly (5A or less), if not the 12V battery may explode.

Measures to be taken in an emergency

1. Connect the clamp of the positive jumper cable to the special jumper starting terminal of the vehicle.
2. Connect the clamp on the other end of the positive cable to the positive (+) terminal of another vehicle.
3. Connect the negative cable clamp to the negative battery terminal of another vehicle.
4. As shown, connect the clamp on the other end of the negative cable to a separate clamp.



BATTERY INSTALLATION

NOTICE

To reduce the chance of sparks, disconnect the black (negative) cable first. When reinstalling the battery, install the black (negative) cable last.

1. Clean battery cables and terminals with a hard wire brush. Corrosion can be removed with a solution of 1 cup water and 1 tablespoon baking soda.Rinse well and dry thoroughly.
2. Put the battery in the tray.
3. Connect and tighten the red (positive) cable.
4. Connect and tighten the black (negative) cable.
5. Install the battery press plate.
6. Tighten the battery clamp bolt.
7. Verify that cables are properly wired.

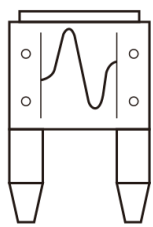
FUSE

All circuits on the vehicle have fuses to protect electrical equipment from damage caused by high current (short circuit or overload).

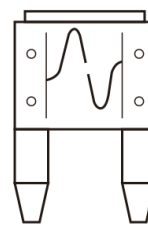
If any of the electrical parts do not work, the fuse may have blown. If this happens, check and replace the fuse if necessary. You can consider electrical faults, first check whether the fuse needs to be replaced, if it is found to have blown, replace the blown fuse. There is a spare fuse in the fuse box. Check all fuses for other possible causes. Replace all blown fuses and check the working condition of components. All fuses are concentrated in the fuse box. In the event of a system failure, see "Fuse Distribution and Ampere rating" for details of which fuses to check.

NOTICE

- **Do not use a fuse above the rated ampere value or replace it with anything else.**
- **Please use the same product.Never use wires for fuses, even temporary replacements are not allowed.**
- **Do not modify fuses or fuse boxes.**



Normal fuse



Blow fuse

FUSE BOX

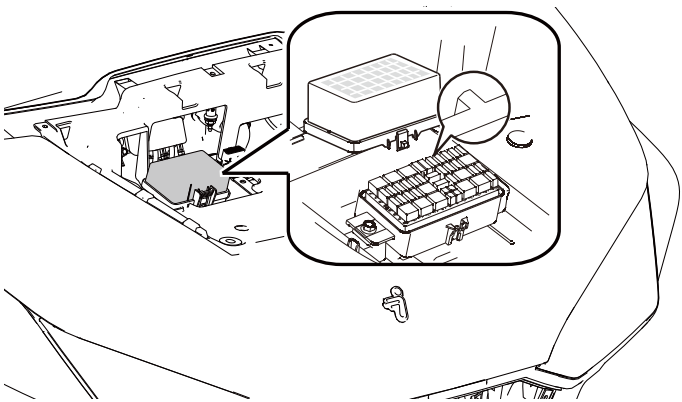
The fuse box is located under the front instrument panel. Remove the front panel repair cover as shown in page 101.

After the front panel repair cover has been removed, the fuse box is located at the bottom. Move the clasp on the left and right sides of the fuse box cover. Loosen the clasp and open the fuse box.

NOTICE

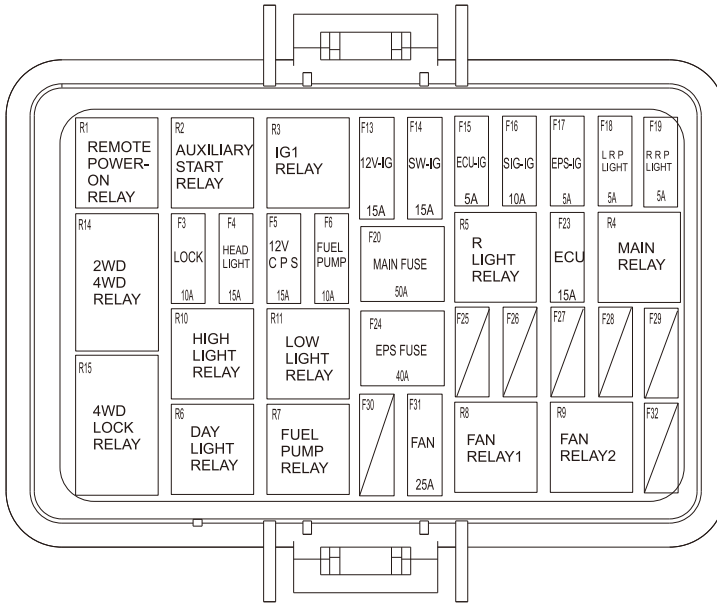
Pay attention to the direction of installation.

The label may be slightly different from the image below.



FUSE/RELAY DISTRIBUTION AND RATED AMPERAGE

There is a. You can refer to the fuse distribution label on the top of the fuse box cover to find a fuse of the same power for replacement.



Rated amperage of fuse/relay and distribution

No.	Fuse/Relay	Power
F3	LOCK FUSE	10A
F4	HEAD LIGHT FUSE	15A
F5	12V C P S FUSE	15A
F6	FUEL PUMP FUSE	10A
F13	12V-IG FUSE	15A
F14	SW-IG fuse	15A
F15	ECU-IG fuse	5A
F16	SIG-IG fuse	10A
F17	EPS-IG fuse	5A
F18	L R P LIGHT	5A
F19	R R P LIGHT	5A
F20	MAIN FUSE	50A
F23	ECU FUSE	15A
F24	EPS fuse	40A
F31	FAN FUSE	25A
R1	REMOTE POWER-ON RELAY	12V 20A
R2	AUXILIARY START RELAY	12V 20A
R3	IG1 RELAY	12V 20A
R4	MAIN RELAY	12V 20A
R5	R LIGHT RELAY	12V 20A
R6	DAY LIGHT RELAY	12V 20A
R7	FUEL PUMP RELAY	12V 20A
R8	FAN RELAY 1	12V 20A
R9	FAN RELAY 2	12V 20A
R10	HIGH LIGHT RELAY	12V 20A
R11	LOW LIGHT RELAY	12V 20A
R14	2WD 4WD RELAY	12V 20A
R15	4WD LOCK RELY	12V 20A

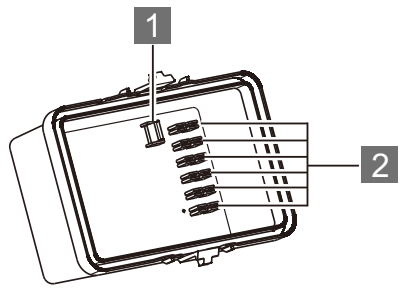
FUSE BOX REPLACEMENT

To prevent an accidental short circuit, turn the ignition switch to the (OFF) position and check or replace the fuse(s).

To check or replace the circuit fuse, pull out the old fuse with a puller.

The fuse box cover is equipped with a puller. Using this tool will help you take out the fuse.

The fuse box cover is fitted with a common fuse which can be replaced.



1 Puller 2 Spare fuse

NOTICE

If a replacement fuse suitable for the circuit rating is not available, install a lower rated fuse.

APPEARANCE CARE

VEHICLE WASHING

High pressure water can damage parts and remove paint and decals.

1. Cover or plug the exhaust outlet prior to washing your vehicle.
2. Fill a bucket with water. Mix in a mild, neutral detergent, such as dish washing liquid or a product made especially for washing motorcycles or automobiles.
3. Wash your vehicle with a sponge or soft towel. As you wash, check for heavy grime. If necessary, use a mild cleaner/ degreaser to remove the grime.
4. After washing, rinse your vehicle thoroughly with plenty of clean water to remove any residue. Detergent residue can corrode alloy parts.
5. Dry your vehicle with a chamois or a soft towel. Leaving water on the surface to air dry can cause dulling and water spots. As you dry, inspect for chips and scratches.
6. It is recommended that after the vehicle has been cleaned, an air-blow gun can be used to blow dry the water stains on the electronic components, connector assemblies, and electrical parts before starting the vehicle, otherwise it may result in a short-circuit malfunction of the vehicle.
7. As a precaution, ride your vehicle at a slow speed and apply the brakes several times. This will help dry the brakes and restore normal braking performance.

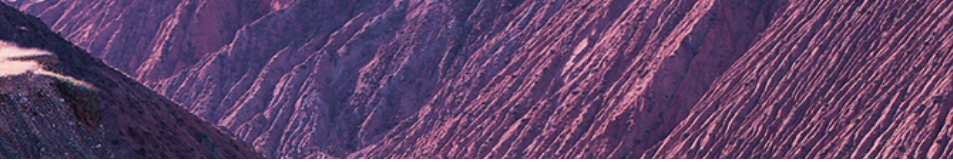
Avoid the following components when washing:

- Wheel bearingsRadiator
- Transmission seals
- Cab and body panels
- Electrical components
- Switches and controls
- Fuel system components
- Labels and decals

If an informational or graphic label becomes illegible or comes off, contact your dealer to purchase a replacement.

VEHICLE STORAGE

When the vehicle is not used for a long time, it should be appropriately stored. The vehicle should be parked and cleaned. If there is no indoor storage conditions, covered outdoor storage is recommended.



SPECIFICATIONS

TECHNICAL PARAMETERS OF VEHICLE.....156
VEHICLE IDENTIFICATION NUMBER 160
THE FRAME NAMEPLATE 162

TECHNICAL PARAMETERS OF VEHICLE

Item		Model	
		SGW1000F-U2/U7	SGW1000F-U5
VEHICLE			
Length×width×height		3100 mm×1625 mm×2014 mm	4000mm×1580mm×1920mm
Wheelbase		2085 mm	2985mm
Front axle track		1310mm	1350mm
Rear axle track		1320 mm	1320 mm
Curb weight		854 kg	1010 kg
Ground clearance		320 mm	320 mm
Turning circle diameter		8500 mm	11500mm
Height of seat		520 mm	
Steering wheel diameter		350 mm	
Maximum weight capacity		680 kg	580 kg
Maximum cargo load		350 kg	205 kg
Axle load (Curb weight)	Front (kg)	321 kg	437 kg
	Rear (kg)	435 kg	573 kg
Axle load (Full load weight)	Front (kg)	524 kg	633 kg (cargo load 205 kg)
	Rear (kg)	912 kg	953 kg (cargo load 205 kg)
EPS type		Electric	
Air filter type		Paper filter type	
Muffler type		Impedance	
Shift operation mode		Mechanical	
Tank		45 L	
Fuels(Gasoline Unleaded)		Petrol(E10) / 87#(US) / 92 #(GB)	
Coolant capacity		6500 mL	8000 mL

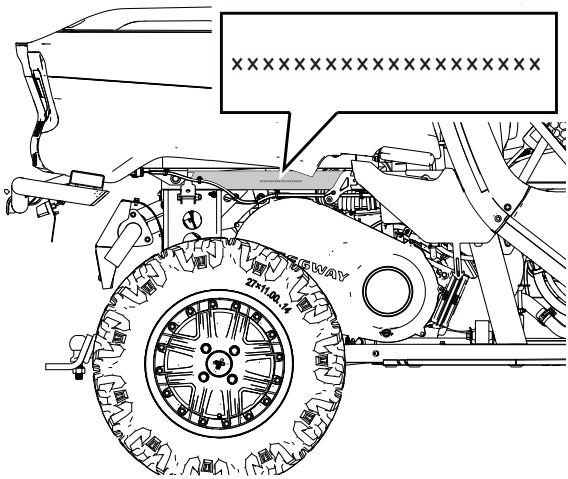
Item		Model	
		SGW1000F-U2/U7	SGW1000F-U5
POWER/TRANSMISSION			
Engine type		Double cylinder Liquid cooling 4 strokes	
Engine model		293MY-1	
Displacement		1000 CC	
Compression ratio		10.9 : 1	
Bore×Stroke		93 mm×73.6 mm	
Starting method		Electric start	
Idle Speed		1250±120 r/min	
Ignition type		Eletcricity (ECU)	
Spark plug type		NGK CPR7EA /TORCH B7RTC	
Spark plug clearance		0.6-0.9 mm	
Lubrication method		Liquid	
Cooling method		Liquid	
Lubricating oil	Engine	SAE 5W-40 SN or higher	
	Gearbox	SAE 80W-90 GL-5	
	Front Axle	SAE 80W-90 GL-5	
Lubricating oil volume	Engine	3300 mL	
	Gearbox	1400 mL	
	Front Axle	260 mL	
CVT transmission ratio		0.75-3.74（CVTech）	
Primary transmission ratio		H：1.406	
		L：2.706	
		R：2.389	
Generator power		580W	680W or 980W
Secondary transmission ratio		1.8	
Tertiary transmission ratio		1.52	

Item		Model			
		SGW1000F-U2/U7		SGW1000F-U5	
Final transmission ratio		To Front Axle ： 0.90476			
Power transmission method		Axle			
Fr. Bridge		3.67			
Rr. Bridge		3.3125			
TIRE					
Tire type (Specification)	Fr. Wheel	27×9.00-14	27×9.00-14	27×9.00-14	30×10.00R14
	Rr. Wheel	27×9.00 R14	27×11.00R14	27×11.00-14	30×10.00R14
Tire pressure	Fr. Wheel	15.0 PSI. (103 Kpa)		103Kpa(15 PSI)	70 Kpa(10 PSI)
	Rr. Wheel	16.0 PSI. (110 Kpa)		120 KPa(17.4psi)	110 KPa(16 psi)
Rim type (Specification)	Fr. Wheel	Aluminum rim （14×6.5 AT）or Steel rim（14×6.0 AT）		Aluminum rim （14×6.5 AT）or Steel rim （14×6.0 AT）	Aluminum rim （14×7.0 AT）
	Rr. Wheel	Aluminum rim （14×7.0 AT）or Steel rim（14×7.5 AT）		Aluminum rim （14×7.0 AT）or Steel rim （14×7.5 AT）	Aluminum rim （14×7.0 AT）
Driving brake	Type	Hydraulic/Disc			
	Operation method	Right feet			
Parking brake	Type	Mechanic, Automatic compensation type			
	Operation method	Hand			
SUSPENSION					
Fr. Suspension stroke		240 mm			
Rr. Suspension stroke		270 mm			
Suspension type	Fr.	Double-wishbone independent Suspension			
	Rr.	Double-wishbone independent suspension			
Shock absorber	Fr.	Hydraulic spring			
	Rr.	Hydraulic spring			

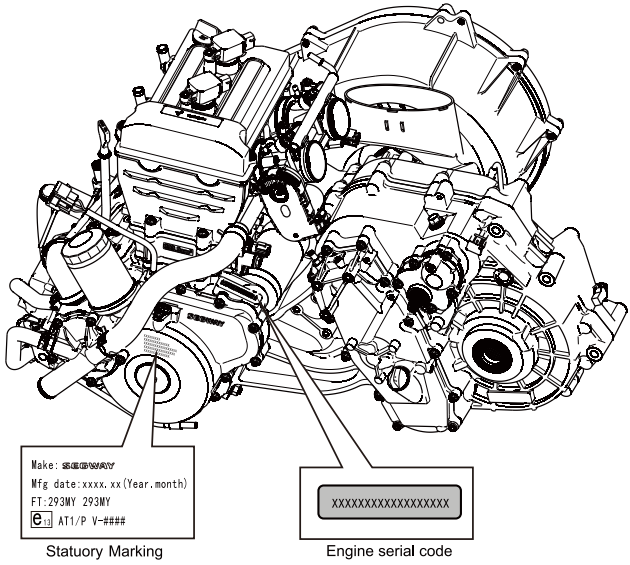
Item		Model	
		SGW1000F-U2/U7	SGW1000F-U5
ELCTRIC			
Headlight	Headlight	55W×2（H4）	
	Fr. Position light	LED×7/0.5W	
	Daytime Running Light	LED×21/4.2W	
	Front turn signal light	Amber /LED×1/4.8W	
Tail light	Rr.Brake light	Red 21W (P21/5W)	
	Rr. Position light	Red 5W（P21/5W）	
	Rear turn signal light	Amber 10W（RY10W）	
Battery（Capacity）		Maintenance-free（12V 32Ah）	
Dashboard		TFT screen	
Winch（lb/m）		3500（2500）（4500）	

VEHICLE IDENTIFICATION NUMBER

Record the frame identification code and engine serial code in the spaces provided for assistance when ordering spare parts from a dealer or for reference in case the vehicle is stolen.



Frame identification code	



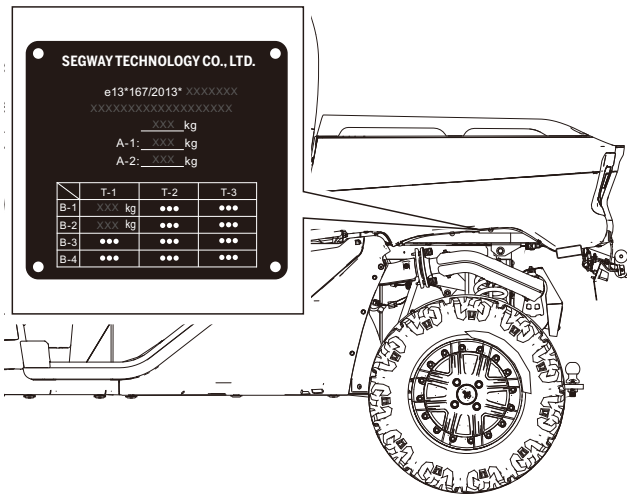
Statuory Marking

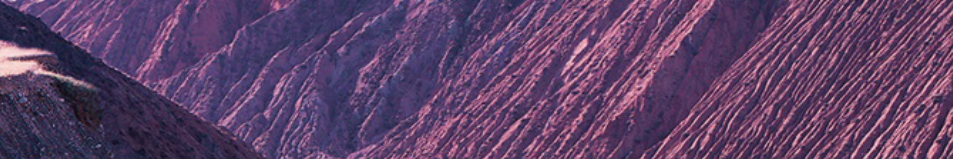
Engine serial code

Engine serial code	

THE FRAME NAMEPLATE

The nameplate shows the basic characteristics information which include VIN code. It needs the VIN when the vehicle requires activate in the first time.





TROUBLESHOOTING

DRIVE BELT AND COVER PROBLEMS 164
ENGINE DOESN'T TURN OVER 165
ENGINE PINGS OR KNOCKS 166
ENGINE STOPS OR LOSES POWER 166
ENGINE TURNS OVER, FAILS TO START 166
ENGINE BACKFIRES 167
ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES 168
ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES 168
ENGINE STOPS OR LOSES POWER 169
DIAGNOSTIC DISPLAYS CODE DEFINITIONS 170

With all the challenges you cna encounter on-road,there's chance that sometime something may go wrong. This section gives practical advice to help you deal with a wide range of problems. Take time to read this section before you ride.

DRIVE BELT AND COVER PROBLEMS

Possible Cause	Solution
Driving the vehicle onto a pickup or tall trailer in high range	Shift transmission to low range during loading of the vehicle to prevent belt burning
Starting out going up a steep incline	When starting out on an incline, use low range
Driving at low RPM or low ground speed (at approximately 5-10 km/h)	Drive at a higher speed or use low range more frequently. The use of low range is highly recommended for cooler CVT operating temperatures and longer component life
Insufficient warm-up of vehicle exposed to low ambient temperatures	Warm the engine before driving, the belt will become more flexible and prevent belt burning
Slow and easy clutch engagement	Use the throttle quickly and effectively for efficient engagement
Towing/pushing at low RPM/low ground speed	Use low range only
Utility use/plowing snow, dirt, etc	Use low range only

Possible Cause	Solution
Stuck in mud or snow	Shift the transmission to low range, and carefully use fast, aggressive throttle application to engage clutch. WARNING: Excessive throttle may cause loss of control and vehicle overturn
Climbing over large objects from a stopped position	Shift the transmission to low range, and carefully use fast, brief, aggressive throttle application to engage clutch. Excessive throttle may cause loss of control and vehicle overturn
Belt slippage from water or snow ingestion into the CVT system	Remove the CVT cover，drain the water from CVT
Clutch malfunction	Contact your dealer for inspection of clutch components

ENGINE DOESN'T TURN OVER

Possible Cause	Solution
Poor engine performance	Check for fouled plugs or foreign material in gas tank, fuel lines, or throttle. Contact your dealer for service.
Tripped circuit breaker	Reset the breaker
Low battery voltage	Recharge battery to 12.5 VDC
Loose battery connections	Check all connections and tighten
Loose solenoid connections	Check all connections and tighten

ENGINE PINGS OR KNOCKS

Possible Cause	Solution
Poor quality or low octane fuel	Replace with recommended fuel
Incorrect ignition timing	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs

ENGINE STOPS OR LOSES POWER

Possible Cause	Solution
Overheated engine	Clean radiator screen and core if equipped Clean engine exterior See your dealer

ENGINE TURNS OVER, FAILS TO START

Possible Cause	Solution
Out of Fuel	Refuel
Clogged fuel valve or filter	Inspect and clean or replace
Water is present in fuel	Drain the fuel system and refuel
Fuel valve is out of use	Replace

Old or non-recommended fuel	Replace with new fuel
Fouled or defective spark plug(s)	Inspect plug(s), replace if necessary
No spark to spark plug	Inspect plug(s), verify stop switch is on
Crankcase filled with water or fuel	Immediately see your dealer
Overuse of choke	Inspect, clean and/or replace spark plugs
Clogged fuel injector	Clean or replace new fuel injector
Low battery voltage	Recharge battery to 12.5 VDC
Mechanical failure	See your dealer

ENGINE BACKFIRES

Possible Cause	Solution
Weak spark from spark plugs	Inspect, clean and/or replace spark plugs
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Old or non-recommended fuel	Replace with new fuel
Incorrectly installed spark plug wires	See your dealer
Incorrect ignition timing	See your dealer
Mechanical failure	See your dealer

ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES

Possible Cause	Solution
Fouled or defective spark plugs	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Loose ignition connections	Check all connections and tighten
Water present in fuel	Replace with new fuel
Low battery voltage	Recharge battery to 12.5 VDC

ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES

Possible Cause	Solution
Kinked or plugged fuel vent line	Inspect and replace
Incorrect fuel	Replace with recommended fuel
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer
Possible Lean or Rich Fuel Mixture Cause	Solution
Low or contaminated fuel	Add or change fuel, clean the fuel system

Low octane fuel	Replace with recommended fuel
Clogged fuel filter	Replace filter
Incorrect jetting	See your dealer
Overuse of choke	Inspect, clean and/or replace spark plugs
Fuel is very high octane	Replace with lower octane fuel

ENGINE STOPS OR LOSES POWER

Possible Cause	Solution
Out of fuel	refuel
Kinked or plugged fuel vent line	Inspect and replace
Water present in fuel	Replace with new fuel
Overuse of choke	Inspect, clean and/or replace spark plugs
Fouled or defective spark plugs	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Loose ignition connections	Check all connections and tighten
Low battery voltage	Recharge battery to 12.5 VDC
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer

DIAGNOSTIC DISPLAYS CODE DEFINITIONS

Failure Code	Failure Description
ECU	
P0108	Manifold Absolute Pressure/Barometric Pressure Circuit High
P0107	Manifold Absolute Pressure/Barometric Pressure Circuit Low
P2A0D	Mass or Volume Air Flow “B” Circuit Low
P2A0C	Mass or Volume Air Flow “B” Circuit High
P0113	Intake Air Temperature Sensor 1 Circuit High
P0112	Intake Air Temperature Sensor 1 Circuit Low
P0118	Engine Coolant Temperature Sensor 1 Circuit High
P0117	Engine Coolant Temperature Sensor 1 Circuit Low
P0650	MIL Control Circuit Low
P0650	MIL Control Circuit Open
P0692	Fan 1 Control Circuit High
P0691	Fan 1 Control Circuit Low
P0480	Fan 1 Control Circuit
P0629	Fuel Pump “A” Control Circuit High
P0628	Fuel Pump “A” Control Circuit Low
P0627	Fuel Pump “A” Control Circuit /Open
P0459	Evaporative Emission System Purge Control Valve Circuit High
P0458	Evaporative Emission System Purge Control Valve Circuit Low
P0444	Evaporative Emission System Purge Control Valve Circuit Open
P0412	Secondary Air Injection System Switching Valve “A” Circuit
P0414	Secondary Air Injection System Switching Valve “A” Circuit Shorted
P0413	Secondary Air Injection System Switching Valve “A” Circuit Open
P0262	Cylinder 1 Injector Circuit High
P0261	Cylinder 1 Injector Circuit Low
P0201	Injector Circuit/Open – Cylinder 1
P0265	Cylinder 2 Injector Circuit High
P0264	Cylinder 2 Injector Circuit Low
P0202	Injector Circuit/Open – Cylinder 2

Failure Code	Failure Description
P0563	System Voltage High
P0562	System Voltage Low
P0560	System Voltage Not plausible
P0501	Vehicle Speed Sensor “A” Range/Performance
P0641	Sensor Reference Voltage "A" Circuit/Open
P0651	Sensor Reference Voltage "B" Circuit/Open
P0571	Brake Switch "A" Circuit
P0571	Brake Switch "A" Circuit
P0123	Throttle/Pedal Position Sensor/Switch "A" Circuit High
P0122	Throttle/Pedal Position Sensor/Switch "A" Circuit Low
P0121	Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance
P0223	Throttle/Pedal Position Sensor/Switch "B" Circuit High
P0222	Throttle/Pedal Position Sensor/Switch "B" Circuit Low
P0221	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance
P2106	Throttle Actuator Control System Forced Limited Power
P2106	Throttle Actuator Control System Forced Limited Power
P2106	Throttle Actuator Control System Forced Limited Power
P2106	Throttle Actuator Control System Forced Limited Power
P1568	Idle Speed Contr.Throttle Pos. mechanical Malfunction
P1545	Throttle Pos.Contr. Malfunction
P1545	Throttle Pos.Contr. Malfunction
P1545	Throttle Pos.Contr. Malfunction
P1565	Idle Speed Control Throttle Position lower limit not attained
P2123	Throttle/Pedal Position Sensor/Switch “D” Circuit High
P2122	Throttle/Pedal Position Sensor/Switch “D” Circuit Low
P2138	Throttle/Pedal Position Sensor/Switch “D”/“E” Voltage Correlation
P2128	Throttle/Pedal Position Sensor/Switch “E” Circuit High
P2127	Throttle/Pedal Position Sensor/Switch “E” Circuit Low
P0606	ECM/PCM Processor
P0606	ECM/PCM Processor
P2106	Throttle Actuator Control System Forced Limited Power

Failure Code	Failure Description
P0606	ECM/PCM Processor
P0606	ECM/PCM Processor
P0606	ECM/PCM Processor
P0606	ECM/PCM Processor
P0606	ECM/PCM Processor
P0606	ECM/PCM Processor
P0606	ECM/PCM Processor
P0606	ECM/PCM Processor
P0606	function monitoring: fault of ECU ADC - Null Load Test Pulse
P0606	function monitoring: fault of ECU ADC - test voltage
P0606	function monitoring:fault of ECU monitoring modul error
P0606	Reported OverVoltage of VDD5
P0606	Reported UnderVoltage of VDD5
P0606	Diagnostic fault check to report "WDA active"
P0606	Diagnostic fault check to report "WDA active" due to errors in query-/response communication
P0606	Diagnostic fault check to report "WDA active" due to overvoltage detection
P0032	O2 Sensor Heater Control Circuit High Bank 1 Sensor 1
P0031	O2 Sensor Heater Control Circuit Low Bank 1 Sensor 1
P0030	O2 Sensor Heater Control Circuit Bank 1 Sensor 1
P0132	O2 Sensor Circuit High Voltage Bank 1 Sensor 1
P0131	O2 Sensor Circuit Low Voltage Bank 1 Sensor 1
P0130	O2 Sensor Circuit Bank 1 Sensor 1
P0134	O2 Sensor Circuit No Activity Detected Bank 1 Sensor 1
P0052	O2 Sensor Heater Control Circuit High Bank 2 Sensor 1
P0051	O2 Sensor Heater Control Circuit Low Bank 2 Sensor 1
P0050	O2 Sensor Heater Control Circuit Bank 2 Sensor 2
P0152	O2 Sensor Circuit High Voltage Bank 2 Sensor 1
P0151	O2 Sensor Circuit Low Voltage Bank 2 Sensor 1
P0150	O2 Sensor Circuit Bank 2 Sensor 1
P0154	O2 Sensor Circuit No Activity Detected Bank 2 Sensor 1
U0073	Control Module Communication Bus Off
U0140	Lost Communication With Body Control Module

Failure Code	Failure Description
U0121	Lost Communication With Anti-Lock Brake System (ABS) Control Module
P0322	Crankshaft signal loss
U0155	Lost Communication With Instrument Panel Cluster (IPC) Control Module
U0198	Lost communication with TBOX
U0293	Lost Communication With Hybrid/EV Powertrain Control Module
P0688	ECM/PCM Power Relay Sense Circuit/Open
P0688	ECM/PCM Power Relay Sense Circuit/Open
P0650	MIL Control Circuit High
P2138	Throttle/Pedal Position Sensor/Switch “D”/“E” Voltage Correlation
P1559	Idle Speed Contr.Throttle Pos. Adaptation Malfunction
P1579	Idle Speed Contr.Throttle Pos. adaptation not started
P1564	Idle Speed Contr.Throttle Pos. Low Voltage During Adaptation
P1559	Idle Speed Contr.Throttle Pos. Adaptation Malfunction
P0300	Misfire detected
P0301	Misfire detected on cylinder 1
P130A	Cylinder selective fuel cutoff active due to catalyst damaging misfire
P0302	Misfire detected on cylinder 2
EPS	
E0001	No midpoint of torque is written
E0002	No end point of rotor angle is written
E0003	Memory read write failure
E0004	The main torque sensor is disconnected
E0005	Abnormal output of main torque sensor
E0006	The secondary torque sensor is disconnected
E0007	Abnormal output of secondary torque sensor
E0008	The difference between main and secondary torques is too large
E0009	The difference between the main torque before and after amplification is too large
E0010	Electrical machinery unassisted

Failure Code	Failure Description
E0011	Over electric current
E0012	Abnormal busbar electric current
E0013	CAN communication abnormal(Output abnormally)
E0014	Rotor Angle jump
E0015	The rotor Angle sensor is disconnected
E0016	Power module failure
E0017	Abnormal A phase electric current
E0018	Abnormal C phase electric current
E0019	Steering wheel Angle small gear abnormal
E0020	Steering wheel Angle middle gear abnormal
E0021	Steering wheel Angle jumps
E0022	Steering wheel Angle value exceeds limit
E0023	The steering wheel Angle is not right
E0024	Abnormal voltage at electrical machinery end
T-BOX	
T0001	GPS module failure
T0002	4G module failure
T0003	Bluetooth module failure
T0004	Sensor failure
T0005	Power CAN failure
T0006	Body CAN failure
ABS(Only applicable to abs models)	
A0001	ECU Voltage:too high
A0002	ECU Voltage:too low
A0003	"Wheel-speed sensor, front left: Signal Line short to GND/Open; Supply Line open"
A0004	Wheel-speed sensor, front left: (signal failure) out of range, jitter, Intermittent
A0005	Wheel-speed sensor, front left:No signal
A0006	"Wheel-speed sensor, front right: Signal Line short to GND/ Open; Supply Line open"
A0007	Wheel-speed sensor, front right: (signal failure) out of range, jitter, Intermittent

Failure Code	Failure Description
A0008	Wheel-speed sensor, front right: No signal from wheel speed sensor
A0009	"Wheel-speed sensor, rear left: Signal Line short to GND/Open; Supply Line open"
A0010	Wheel-speed sensor, rear left: (signal failure) out of range, jitter, Intermittent
A0011	Wheel-speed sensor, rear left: No signal from wheel speed sensor
A0012	"Wheel-speed sensor, rear right: Signal Line short to GND/ Open; Supply Line open"
A0013	Wheel-speed sensor, rear right: (signal failure) out of range, jitter, Intermittent
A0014	Wheel-speed sensor, rear right: No signal from wheel speed sensor
A0015	Wheel-speed sensor generic error (General error of wheel speed sensor (frequency error, gear number error, tire error)
A0016	Valve relay error
A0017	valve fault, inlet valve FL
A0018	valve fault, outlet valve FL
A0019	valve fault, inlet valve FR
A0020	valve fault, outlet valve FR
A0021	valve fault, inlet valve RL
A0022	valve fault, outlet valve RL
A0023	valve fault, inlet valve RR
A0024	valve fault, outlet valve RR
A0025	valve fault(overheating,overcurrent,short circuit,signal error,hadware error)
A0026	Motor error
A0027	Motor relay error
A0028	ECU error (hardware error)
A0029	CAN hardware error
A0030	CAN Bus Off error
A0031	ABS control anomalies failure
A0032	Variant Coding Error



EMISSION CONTROL SYSTEM

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SOURCE OF EXHAUST EMISSIONS

The combustion process produces carbon monoxide(CO),oxides of nitrogen(NOx)and hydrocarbons(HC).Control of hydrocarbons and oxides of nitrogen is very important because, under certain conditions, they react to form photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but it is toxic.

EXHAUST EMISSION CONTROL SYSTEM

The exhaust emission control system includes a EFI system and oxygen sensor.

No adjustments to this system should be made although periodic inspection of the components is recommended.

The exhaust emission control system is separate from the crankcase emission control system.

CRANKCASE EMISSION CONTROL SYSTEM

The engine is equipped with a closed crankcase system to prevent discharging crankcase emissions into the atmosphere. Blow-by gas is returned to the combustion chamber through the air cleaner.

NOISE CONTROL SYSTEM

Do not modify the engine,air intake or exhaust components, in order to meet local noise level requirements.

SGW1000F-U2

Declaration of Driver's exposure to noise level

The undersigned: Tao yun feng, General Manager
Company name and address of the manufacturer:
Segway Technology Co., Ltd.
No. 395, Xiacheng South Road, Wujin National High-tech Industrial Development Zone, Changzhou, Jiangsu, China

Hereby declares that:
For the following vehicle:

1.1. Make (trade name of the manufacturer): SEGWAY
1.2. Type: SGW1000F-U2
1.2.1. Variant(s): SGW1000F-U2
1.2.2. Version(s): A2,B2

1.2.3. Commercial name(s) (if available):
Fugleman UT10, Fugleman UT10 E, Fugleman UT10 X,
Fugleman 1000, Fugleman 1000 E, Fugleman 1000 X
1.3. Category, subcategory and speed index of the vehicle:
Variant/Version: SGW1000F-U2/A2: T1a
Variant/Version: SGW1000F-U2/B2: T1b

The Driver's exposure to noise level result is
Variant/Version: SGW1000F-U2/A2: 86.0 dB(A)
Variant/Version: SGW1000F-U2/B2: 86.0 dB(A)
(Limit: 86 dB(A)) according to test method 2 in accordance with :section 3 of Annex XIII to EU 1322/2014.

Place: Changzhou, China Date: 23/03/2026

Signature: Tao Yunfeng Name and position in the company: Tao yun feng, General Manager

SGW1000F-U2

Declaration of Vibration declaration

The undersigned: Tao yun feng, General Manager
Company name and address of the manufacturer:
Segway Technology Co., Ltd.
No. 395, Xiacheng South Road, Wujin National High-tech Industrial Development Zone, Changzhou, Jiangsu, China

Hereby declares that:
For the following vehicle:

1.4. Make (trade name of the manufacturer): SEGWAY
1.5. Type: SGW1000F-U2
1.2.1. Variant(s): SGW1000F-U2
1.2.2. Version(s): A2,B2
1.2.3. Commercial name(s) (if available):
Fugleman UT10, Fugleman UT10 E, Fugleman UT10 X,
Fugleman 1000, Fugleman 1000 E, Fugleman 1000 X
1.6. Category, subcategory and speed index of the vehicle:
Variant/Version: SGW1000F-U2/A2: T1a
Variant/Version: SGW1000F-U2/B2: T1b

The value of the vibration level measured according to Annex XIV to EU 1322/2014 is

Driver mass		a_{wS} m/s^2	a_{wB} m/s^2	a_{wS}/a_{Wb}	Requirement
59±1kg	Test run 1	0.68	1.80		Deviation<10% between test run 1/2 and Arithmetic mean, a_{wS}<1.25 m/s^2
	Test run 2	0.69	1.84		
	Arithmetic mean	0.69	1.82	0.38	
98±5kg	Test run 1	0.63	1.72		
	Test run 2	0.66	1.75		
	Arithmetic mean	0.65	1.73	0.38	

a_{wS}: rms value of the weighted seat vibration acceleration measured during a standard roadway test

Place: Changzhou, China Date: 23/03/2026

Signature:  Name and position in the company: Tao yun feng, General Manager

SGW1000F-U5

Declaration of Driver's exposure to noise level

The undersigned: Tao yun feng, General Manager
Company name and address of the manufacturer:
Segway Technology Co., Ltd.
No. 395, Xiacheng South Road, Wujin National High-tech Industrial Development Zone, Changzhou, Jiangsu, China

Hereby declares that:
For the following vehicle:

1.1. Make (trade name of the manufacturer): SEGWAY
1.2. Type: SGW1000F-U5
1.2.1. Variant(s): SGW1000F-U5
1.2.2. Version(s): A, B
1.2.3. Commercial name(s) (if available):
SEGWAY UT10 CREW, SEGWAY UT10 CREW E,
SEGWAY UT10 CREW X, SEGWAY UT10 CREW P,
SEGWAY UT10 CREW S, SEGWAY UT10 CREW D,
SEGWAY UT10 CREW STANDARD, SEGWAY UT10 CREW DELUXE, SEGWAY UT10 CREW PREMIUM
1.3. Category, subcategory and speed index of the vehicle:
Variant/Version: SGW1000F-U5/A : T1a
Variant/Version: SGW1000F-U5/B : T1b

The Driver's exposure to noise level result is
Variant/Version: SGW1000F-U5/A : 86.0 dB(A),
Variant/Version: SGW1000F-U5/B : 86.0 dB(A),
(Limit: 86 dB(A)) according to test method 2 in accordance with :section 3 of Annex XIII to EU 1322/2014.

Place: Changzhou, China Date: 23/03/2026

Signature: Tao Yunfeng Name and position in the company: Tao yun feng, General Manager

SGW1000F-U5

Declaration of Vibration declaration

The undersigned: Tao yun feng, General Manager
Company name and address of the manufacturer:
Segway Technology Co., Ltd.
No. 395, Xiacheng South Road, Wujin National High-tech Industrial Development Zone, Changzhou, Jiangsu, China
Hereby declares that:
For the following vehicle:

1.4. Make (trade name of the manufacturer): SEGWAY
1.5. Type: SGW1000F-U5
1.2.1. Variant(s): SGW1000F-U5
1.2.2. Version(s): A, B
1.2.3. Commercial name(s) (if available):
SEGWAY UT10 CREW, SEGWAY UT10 CREW E, SEGWAY UT10 CREW X, SEGWAY UT10 CREW P, SEGWAY UT10 CREW S, SEGWAY UT10 CREW D, SEGWAY UT10 CREW STANDARD, SEGWAY UT10 CREW DELUXE, SEGWAY UT10 CREW PREMIUM
1.6. Category, subcategory and speed index of the vehicle:
Variant/Version: SGW1000F-U5/A : T1a
Variant/Version: SGW1000F-U5/B : T1b

The value of the vibration level measured according to Annex XIV to EU 1322/2014 is

Driver mass		a_{wS} m/s^2	a_{wB} m/s^2	a_{wS}/a_{Wb}	Requirement
59±1kg	Test run 1	0.39	1.02		Deviation<10% between test run 1/2 and Arithmetic mean, a_{wS}<1.25 m/s^2
	Test run 2	0.37	1.00		
	Arithmetic mean	0.38	1.01	0.38	
98±5kg	Test run 1	0.43	1.10		
	Test run 2	0.44	1.09		
	Arithmetic mean	0.44	1.10	0.40	

a_{wS}: rms value of the weighted seat vibration acceleration measured during a standard roadway test
Place: Changzhou, China Date: 23/03/2026

Signature: Tao Yunfeng Name and position in the company: Tao yun feng, General Manager

SGW1000F-U7

Declaration of Driver's exposure to noise level

The undersigned: Tao yun feng, General Manager
Company name and address of the manufacturer:
Segway Technology Co., Ltd.
No. 395, Xiacheng South Road, Wujin National High-tech Industrial Development Zone, Changzhou, Jiangsu, China

Hereby declares that:
For the following vehicle:

1.1. Make (trade name of the manufacturer): SEGWAY
1.2. Type: SGW1000F-U7
1.2.1. Variant(s): SGW1000F-U7
1.2.2. Version(s): C
1.2.3. Commercial name(s) (if available):
Segway UT10 ABS
1.3. Category, subcategory and speed index of the vehicle:
Variant/Version: SGW1000F-U7/C: T1b

The Driver's exposure to noise level result is
Variant/Version: SGW1000F-U7/C: 85.9 dB(A)
(Limit: 86 dB(A)) according to test method 2 in accordance with :section 3 of Annex XIII to EU 1322/2014.

Place: Changzhou, China Date: 25/03/2026

Signature: Tao Yunfeng Name and position in the company: Tao yun feng, General Manager

SGW1000F-U7

Declaration of Vibration declaration

The undersigned: Tao yun feng, General Manager
Company name and address of the manufacturer:
Segway Technology Co., Ltd.
No. 395, Xiacheng South Road, Wujin National High-tech Industrial Development Zone, Changzhou, Jiangsu, China

Hereby declares that:
For the following vehicle:

1.4. Make (trade name of the manufacturer): SEGWAY
1.5. Type: SGW1000F-U7
1.2.1. Variant(s): SGW1000F-U7
1.2.2. Version(s): C
1.2.3. Commercial name(s) (if available):
Segway UT10 ABS
1.6. Category, subcategory and speed index of the vehicle:
Variant/Version: SGW1000F-U7/C: T1b

The value of the vibration level measured according to Annex XIV to EU 1322/2014 is

Driver mass		a_{wS} m/s^2	a_{wB} m/s^2	a_{wS}/a_{Wb}	Requirement
59±1kg	Test run 1	0.68	1.80		Deviation<10% between test run 1/2 and Arithmetic mean, a_{wS}<1.25 m/s^2
	Test run 2	0.69	1.84		
	Arithmetic mean	0.69	1.82	0.38	
98±5kg	Test run 1	0.63	1.72		
	Test run 2	0.66	1.75		
	Arithmetic mean	0.65	1.73	0.38	

a_{wS}: rms value of the weighted seat vibration acceleration measured during a standard roadway test
Place: Changzhou, China Date: 25/03/2026
Signature: Tao Yunfeng Name and position in the company: Tao yun feng, General Manager



WARRANTY

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WARRANTY POLICY

WARRANTY COVERAGE

Segway provides users with TWO (2) YEAR warranty service for the entire vehicle.

The following warranty periods are calculated starting from the date when the warranty begins, and the warranty period ends when the warranty time expires.

DETAILS OF THE WARRANTY POLICY

Warranty Type	Vulnerable Parts	Special Spare Parts	Warranty for the Whole Vehicle
Warranty Period	30 Days	90 Days	TWO (2) YEAR
Warranty Contents	Part Costs + Labor Hour Costs	Part Costs + Labor Hour Costs	Part Costs + Labor Hour Costs
Warranty Details	Battery、Spark Plug、Air Filter、Oil Filter、Fuel Filter	Front end accessory drive belt、Torque Converter、Rim、Tire、Brake Pad、Brake Disc、Hub Bearing Unit、Shock Absorber、Steering Column Bearing and its Seal、Rubber Components、Engine Mount、Rubber Protective Sleeve、Winch (if equipped)、Appearance defects of body plastic parts、Rocker Arm Ball Joint and Joint Bearing	Other parts not specified in the details (excluding various oils and gifts)

WARRANTY INSTRUCTION

1. During the warranty period, for vehicle quality issues arising from material defects or manufacturing processes, Segway-authorized dealers will conduct inspections. Upon verification that the issue falls within the warranty scope, they will provide free warranty services, including parts and labor costs, to restore the normal functions of the vehicles.
2. The following conditions and rules need to be fulfilled during the warranty period:

   a) Repairs during the warranty period can only be carried out at Segway-designated authorized dealers.

   b) During the vehicle's usage, it must be used, maintained and serviced in strict accordance with the instructions in the "User Manual".

   c) Adjustments, maintenance, repairs, installations and modifications during the warranty period can only be carried out at Segway-designated authorized dealers.

   d) When applying for warranty, users must present all relevant vehicle documents (i.e., vehicle purchase certificates, maintenance certificates from authorized dealers, and the original or photos of the vehicle registration certificate).

   e) The vehicle information (VIN, serial number, mileage, etc.) shall not be tampered with or damaged.
3. Accessories replaced under warranty shall become the property of Segway.
4. For accessories replaced due to vehicle quality issues caused by material defects or manufacturing processes, the warranty period shall be the remaining duration of the original warranty for that specific accessory, ending when the original warranty expires.
5. Segway shall not be liable for any commitments made by third parties or individuals beyond the scope of this policy.

LIABILITY EXCLUSION

The following situations will not be covered by the warranty service for the faults or consequential damages:

1. Faults occurring beyond the warranty period;
2. The vehicle being used in various competitions;
3. The purchased vehicle having been informed in writing of defects that do not violate laws and regulations;
4. Damages caused by failure to use, maintain or service the vehicle in accordance with the user manual;
5. Damages caused by modification, adjustment or disassembly of the vehicle;
6. Installation or use of parts or accessories that are not equivalent in quality to the original parts;
7. Abnormal wear and tear of parts caused by improper repair or assembly;
8. Extended damages caused by improper handling of the vehicle by the user after a quality problem occurs;
9. Use of fuel, engine oil or lubricants that do not meet the requirements of the vehicle;
10. Damages or indirect damages caused by accidents, human negligence, environmental factors such as natural disasters or other force majeure;
11. Failures caused by the use environment exceeding the normal operating conditions of the vehicle (such as a shorter remote control distance or inoperability caused by environmental electromagnetic interference, etc.);
12. Wear and tear of parts caused by natural abrasion;
13. Rust and corrosion of parts caused by use and storage environmental factors;
14. Segway only covers the accessory costs and labor costs for repairs. The warranty does not include other loss expenses caused by faults, including but not limited to towing fees, parking fees, toll fees, transportation fees, hotel expenses,

meal expenses, handling fees, vehicle rental fees, loss of holidays, personal time costs, telephone fees, taxi fees, loss of income, etc.

SUGGESTIONS FOR VEHICLE MAINTENANCE AND REPAIR

To ensure your vehicle is in optimal condition, maintains the highest safety standards, and enjoys an extended service life after repairs and maintenance, while avoiding issues caused by improper servicing, we recommend having your vehicle repaired and maintained by Segway-authorized dealers. These dealers possess extensive experience working on Segway vehicles, have access to the latest repair documentation, and are equipped with specialized tools and genuine original parts required for Segway vehicles.

MAINTENANCE LOG

Use the following chart to record periodic maintenance.

VIN	Date	Miles(Km)or Hours	Service item