OWNER'S MANUAL

AT10

Read this manual carefully,it contains important safety information.
This is an adult vehicle only.Operation is prohibited for those under 16 years of age.

WELCOME

Thank you for buying Segway ATV. Segway off-road vehicles will bring you a new driving experience.

For your driving safety, please read this manual before riding. This manual contains safety and operation instructions, maintenance procedures and safety warnings.

A careful reading of this manual will help you understand your vehicle and will help your driving.

Periodic maintenance procedures in this manual must be performed regularly to maintain vehicle safety.

⚠ WARNING

Read, understand, and follow all instructions and safety precautions in this manual and all product labels.

Failure to follow the safety precautions could result in serious injury or death.

IMPORTANT NOTE

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

Before driving the vehicle, please understand the local laws and regulations. When driving, please follow all local traffic regulations.

This manual describes vehicle and all its equipment, including optional components. Some of the optional equipment described in the manual may be not installed on your vehicle.

All information in this manual is up to date at the time of publication. However, due to continuous product development, we reserve the right to make changes in this manual at any time without prior NOTE. The descriptions and/or procedures in this manual are for informational purposes only. We take no responsibility for any omissions or inaccuracies. No part of this publication may be reproduced, stored in any retrieval system or transmitted in any form or by any means without the prior written permission of Segway Powersports.

If your vehicle needs any service and repair, contact your authorized Segway dealer.

Visit **http://powersports.segway.com** to find your nearest Segway dealer or service locations.

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BEFORE YOU RIDE

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

⚠ WARNING

Failure to follow warnings and safety precautions in this manual could result in severe injury or death. Your SEGWAY vehicle is not a toy and can be dangerous to operate. ATVs handle differently from cars, trucks or other off-road vehicles. Collision or rollover can occur quickly, even during routine maneuvers like turning, or driving on hills or over obstacles, if you fail to take proper precautions.

- Read this owner's manual thoroughly and 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 16 years of age and have a valid driver's license to operate this vehicle.

- Always wear a helmet, eye protection, gloves, long-sleeve shirt, long pants and over-the-ankle boots.
- Never consume alcohol or drugs before or while operating this vehicle, as these they impair judgment and reduce the operator's ability to react.
- Complete the New Operator Driving Procedures mentioned in this manual. Never allow anyone to operate this vehicle until he/she has completed the New Operator Driving Procedures.
- Never permit anyone to operate this vehicle unless he/she has read the owner's manual, all safety labels on the vehicle and has completed a safety training.

Meaning of signs

⚠ This is the Safety Alert Symbol. It is used to alert you to potential personal injury hazards. Obey all safety precautions that follow this symbol to avoid possible injury or death.

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

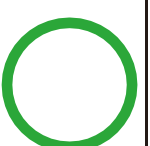
CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

CAUTION

CAUTION without the safety alert symbol is used to address practices not related to personal injury.

NOTE

NOTE provides key information by clarifying instructions.

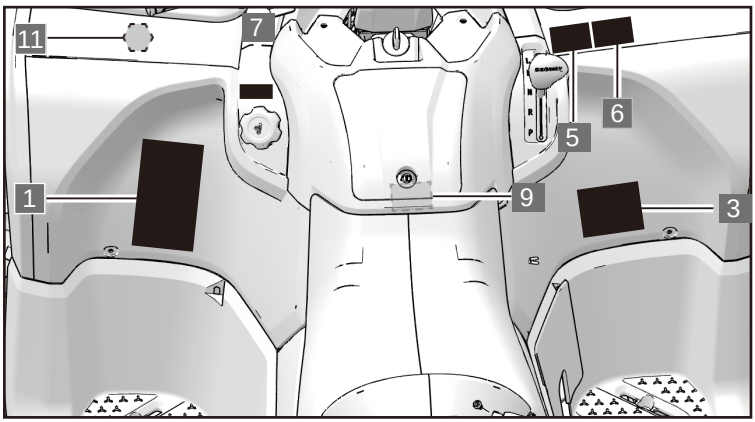
The Prohibition Safety Sign indicates an action **NOT** to take in order to avoid a hazard. 	The Must Action Sign indicates an action that **NEEDS** to be taken to avoid a hazard. 

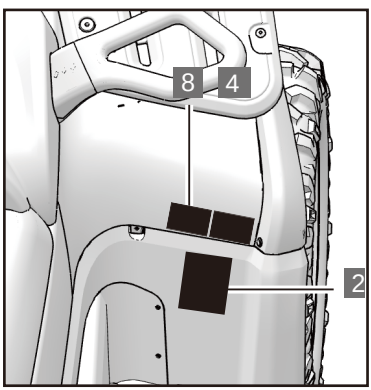
SAFETY

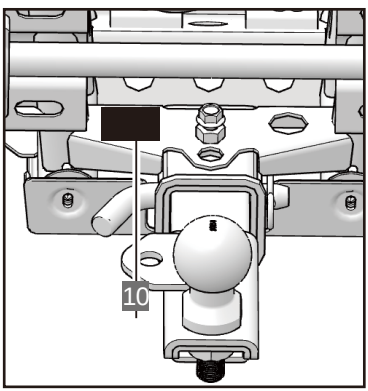
Failure to follow the warnings and safety precautions in this manual may result in serious injury or death. It can be dangerous to operate an ATV without proper instruction. An ATV handles differently from other vehicles, motorcycles or automobiles. If proper precautions are not taken, a collision or roll-over may occur even 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.







1

⚠ WARNING

Improper ATV use can result in SEVERE IN JURY or DEATH.

ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR

NEVER CARRY MORE THAN 1 PASSENGER

NEVER USE WITH DRUGS OR ALCOHOL

NEVER operate:

- Without proper training or instruction.
- At speeds too fast for your skills or the conditions.
- On public roads-a collision can occur with another vehicle.

ALWAYS:

- Use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- Avoid paved surfaces-pavement may seriously affect handling and control.

LOCATE AND READ OWNER'S MANUAL.
FOLLOW ALL INSTRUCTIONS AND WARNINGS

2

⚠ WARNING

Passengers under 12 are prohibited.
Passenger should be well seated & hold tight the handgrip during public road operation.

Passenger seat could be used during public roads operation.
Passenger seat shall not be used during field operation.

3

⚠ WARNING

Operating this ATV if you are under the age of **16** increases your chance of severe injury or death.

NEVER operate this ATV if you are under age **16**.

4

⚠ WARNING

•DO NOT TOW FROM RACK OR BUMPER. Vehicle damage or tipover may result in severe injury or death. Tow only from tow hooks or hitch.

• Max Rack Loads: Front 88 lbs (40kg)
Rear 132lbs (60kg)

5

⚠ WARNING

- Step on the brake pedal each time the gear is changed.
- When the ATV is unmanned, the transmission must be placed in parking gear.

6

⚠ WARNING

Turning the vehicle in 4WD-LOCK ("DIFF. LOCK") takes more efforts. Operate at a slow speed and allow extra time and distance for maneuvers to avoid loss of control.

7

Unleaded fuel only

8

⚠ 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: 7.0 psi (48.3 kPa)
  Rear: 7.0 psi (48.3 kPa)

9

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.

10

⚠ WARNING

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

- Maximum unbraked towing mass **450 kg (992 lb)**
- Maximum unbraked tongue mass **95 kg (210 lb)**
- Maximum inertiabraked towing mass **700 kg (1543 lb)**
- Maximum inertiabraked tongue mass **95 kg (210 lb)**

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SAFETY PRECAUTIONS

SEVERE INJURY OR DEATH can result if you do not follow these precautions:

- The minimum recommended driving age for this vehicle is 16 years.
- Never operate this vehicle without wearing an approved motorcycle helmet that fits properly. You should also wear eye protection (goggles 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 stunts.
- Never operate at speeds too fast for your skills or conditions. Always go at a speed that is proper for the terrain, visibility, operating conditions and your riding 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 especially cautious on these kinds of terrain.
- Always follow the inspection and maintenance procedures and schedules described in this manual.
- Never ride on hills that are slippery or where you cannot see far enough ahead.
- Never go over the top of a hill at speed if you cannot see what is on other side.

- Always keep both hands on the handlebars when driving.
- Always go slowly and be extra careful when operating in unfamiliar terrain. Always be alert to changing terrain conditions when driving the vehicle.
- 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 in reverse. Use engine braking to help you go slowly. If necessary, use the brakes gradually to slow down.
- Never operate on hills that are too steep for the vehicle or for your abilities. Go straight up and down hills where possible.
- Never operate the vehicle in fast flowing water or water deeper than the floorboards. Remember that wet brakes may reduce stopping ability. Test your brakes after leaving water. If necessary, apply the brakes several times to let friction dry out the brake pads.
- Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed, go slowly.
- Always check terrain before going down the 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.
- Always use the size and type of tires specified in this manual.
- Always maintain proper tire pressure as described in this manual.

- Never exceed your ATV load capacity. Cargo should be distributed evenly between the front and rear racks. Be sure cargo is secured so that it cannot move around during ride. Reduce speed and follow instructions in this manual for carrying cargo or hauling a trailer. Allow greater distance for braking.
- Brake discs can over-heat after continuous braking. Possible risk of burns from touching the brakes after prolonged operation. Let the brake components to cool down before servicing.
- Be aware of burn and fire risks after contact with hot surfaces, including burn risks when adding coolant or replacing hot engine or gearbox oil.
- Exhaust system is extremely hot during and after use of the vehicle. Hot components can cause severe burns or fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system.
- Use caution when riding 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 ATV improperly increases the risk of accident. The driver must know how to drive the vehicle correctly in different situations and on different terrains.

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.

SAFE DRIVING AGE

⚠ WARNING

The minimum driving age for this vehicle is 16 years. Children under the age of 16 cannot drive this vehicle. Training courses are required. Please ensure that each driver has read this manual and all product labels, as well as has completed a safety training course.

USING ALCOHOL OR DRUGS

⚠ WARNING

Operating this vehicle after consuming alcohol or drugs will affect operator's judgment, reaction time, sense of balance and perception.
Never consume alcohol or drugs before or while operating this vehicle.

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

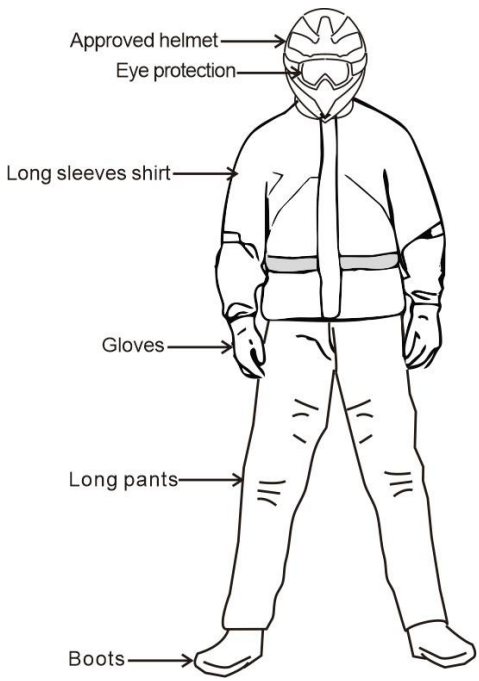
Wearing a helmet can prevent head injuries. At all times, you must wear a helmet that meets actual safety standards when driving. ECE 22.05 and ECE 22.06 homologations are valid in Europe. The ECE marking consists of a circle surrounding the letter E followed by the distinguishing number of the country which has granted approval. The approval number and helmet serial number are also on the helmet label.

Recommended Riding Gear

- Sturdy off-road motorcycle boots protect your feet, ankles, and lower legs.
- On-road motorcycle gloves to protect your hands.
- Riding pants with knee and hip pads, a riding jersey with padded elbows, and a chest / shoulder protector.

⚠ WARNING

Always wear an approved motorcycle helmet, eye protection, gloves, a long-sleeved shirt or jacket, long pants and over-the-ankle boots. Appropriate clothing reduces the possibility of injury.



VEHICLE MODIFICATIONS

⚠ WARNING

Never attempt vehicle modification to increase vehicle speed or use any device that increases the engine power. If any device is added to the vehicle, or if any modifications are made to the vehicle to increase the vehicle speed or power, the warranty will be terminated. Using of certain equipment may change the handling of the vehicle including (but not limited to) equipment such as mowers, trailers, sleds, tires, sprayers or large luggage racks.

CARRYING PASSENGERS

⚠ WARNING

Passengers substantially reduce a driver's ability to balance and control ATV, which can lead to accidents or rollovers. Never carry more passengers than your vehicle is designed for.

Maximum passengers: 1 (1 rider + 1 passenger)

Exhaust gases are dangerous

⚠ 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 closed areas. The engine exhaust of this product contains chemicals that cause cancer, birth defects or other reproductive damage. You can only drive outside or in a well-ventilated area.

UNAUTHORIZED USE OF THE VEHICLE

⚠ WARNING

If the key is left in the ignition, people under the age of 16 or without a license, or without proper training can use the vehicle illegally. This could cause an accident or a rollover.

Always remove the ignition key when the vehicle is not in use.

FUEL SAFETY

⚠ WARNING

Gasoline is flammable.

- Be extremely careful when dealing with gasoline.
- When refueling, the engine must be switched off. Refueling must be done outdoors or in a well-ventilated area.
- At, or near the refueling or gasoline storage place do not smoke and do not use open flames or sparks.
- Do not overflow when refueling. Fill the tank only to the bottom of the filler neck.
- If gasoline gets on your skin or clothes, wash it with soap and water immediately and change clothes.

FAILURE TO INSPECT BEFORE OPERATING

⚠ WARNING

- Failure to inspect and check that the vehicle is in safe operating condition before operating increases the risk of an accident.
- Always perform the pre-ride inspection before each use of your vehicle to make sure it's in safe operating condition.
- Always follow the inspections, maintenance procedures and schedules described in this owner's manual.

IMPROPER TIRE MAINTENANCE

⚠ WARNING

- Operating this vehicle with improper tires or with improper or uneven tire pressure could cause loss of control and an accident.
- Always use the size and type of tires specified for your vehicle.
- Always maintain proper tire pressure as described in the owner's manual and on safety labels.

OPERATING ON FROZEN BODIES OF WATER

⚠ WARNING

- Severe injury or death can result if the vehicle and/or the operator fall through the ice. Never operate the vehicle on a frozen body of water unless you have first verified that the ice is sufficiently thick to support the weight and dynamic forces of the vehicle, your weight and weight of your cargo, together with any other vehicles in your party.
- Always check with local authorities and residents to confirm ice conditions and thickness over your entire route. Vehicle operators assume all risk associated with ice conditions on frozen bodies of water.

OPERATING AT EXCESSIVE SPEEDS

⚠ WARNING

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

HOT EXHAUST SYSTEM

⚠ WARNING

- Exhaust system is very hot during and after the ride. Hot components can cause severe burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system.
- Use caution when riding 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.

OPERATING A DAMAGED VEHICLE

⚠ WARNING

Operating a damaged vehicle can result in an accident. After any rollover or accident, have a qualified service dealer inspect the entire machine for possible damage, including but not limited to brakes, throttle and steering system.

SKIDDING AND SLIDING

⚠ WARNING

Failure to use caution when operating on excessively rough, slippery or loose terrain could cause loss of traction, loss of control, accident or rollover. Do not operate on excessively slippery surfaces. Always slow down and use additional caution when operating on slippery surfaces.

OPERATING IN UNFAMILIAR TERRAIN

⚠ WARNING

- Failure to use extra caution when operating in unfamiliar terrain could result in an accident or rollover.
- Unfamiliar terrain may hide rocks, bumps, or holes that could cause loss of control or rollover.
- Go slowly and use extra caution when operating in unfamiliar terrain. Always be alert to changing terrain conditions.

CLIMBING HILLS IMPROPERLY

⚠ WARNING

Improper hill climbing could cause loss of control or rollover. Use extreme caution when operating on hills. Always follow proper procedures for hill climbing as described in this manual. See the New Operator Driving Procedures section for details.

DESCENDING HILLS IMPROPERLY

⚠ WARNING

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

YOUR VEHICLE

YOUR VEHICLE

VEHICLE ACTIVATION

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

NOTE
If equipped with T-BOX, before the first use, the new vehicle can be activated only through the Segway Powersports application. If the T-Box is not activated, vehicle speed will be limited to 30 km/h.

Download the APP from “Apple Store®” or “Google Play® store” into your mobile phone before you try to activate your vehicle by the APP for the first time. In your mobile phone search for **“Segway Powersports”** application in “Apple Store®” or “Google Play® store”, then download the APP as usual.

After the successful installation of the APP, your vehicle will be registered and activated. First, find the VIN number on the vehicle and register it into the APP. The registration procedure is as follows:

1. Power on the vehicle with the mechanical key.

Input or scan vehicle VIN number according to APP registration prompts, and step on the vehicle brake at the same time. The VIN number is located under the seat.

Note: If the VIN number cannot be scanned by your phone due, for example, to the low light, you can try to enter the VIN number manually. The vehicle VIN number is either on the vehicle frame (Page 148) or on the vehicle Identification plate (Page 149).

2. Click “**CONFIRM**” to complete the vehicle registration.
3. Click “**START**” to start the engine.

FIRST ACTIVATION

There are 3 ways to activate your vehicle:

1. **With the mechanical key** (preferred)
2. **Activation via the APP**

Remote unlock via the APP is based on the mobile data network. As long as the area is covered by the mobile data network, you can use remote unlock function in the APP to activate the vehicle.

3. Activation via Bluetooth

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.

NOTE
After switching the vehicle off with the mechanical key, the vehicle cannot be activated again by the phone. To activate the vehicle, you need to disconnect the phone and reconnect it to the vehicle.

By mechanical key is the preferred activation method. If you don t want to use the remote activation function, you can turn this option off in the APP.

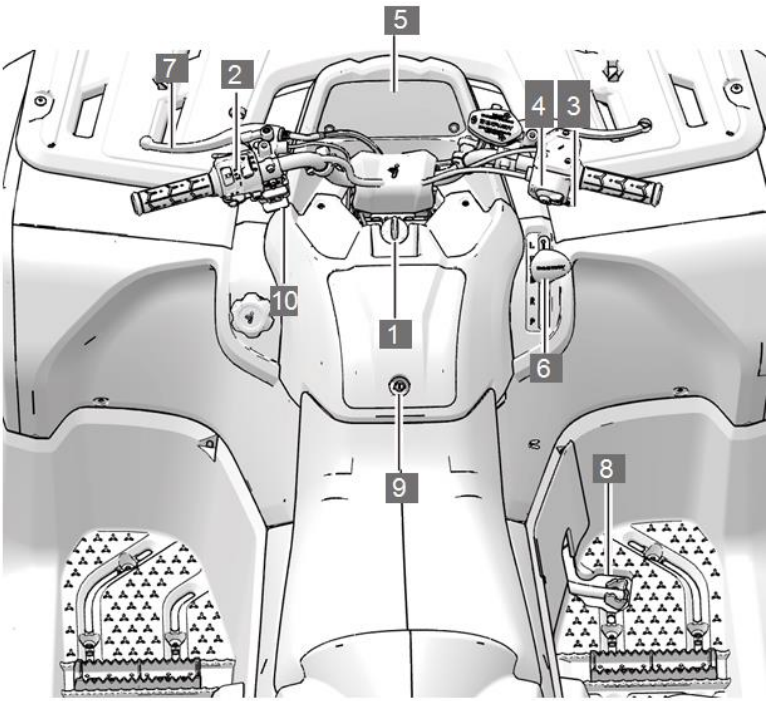
APP FUNCTION

“Segway Powersports” application is a program designed for users of Segway Powersports vehicles.

Main Features: Driving control analysis, vehicle data analysis, etc.

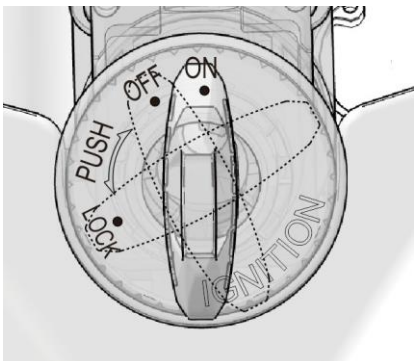
For further information see the APP User manual.

FEATURES AND CONTROLS



1 Ignition switch / steering lock
2 Left handle switch
3 Throttle lever
4 2WD/4WD switch
5 LCD display
6 Gear shift lever
7 Brake/Parking lever
8 Brake pedal
9 Storage box lock
10 Winch controller

IGNITION SWITCH / STEERING LOCK



"ON": Power is On
"OFF": Power is Off
"LOCK": Steering lock

The ignition switch/steering lock is located under the handlebars.

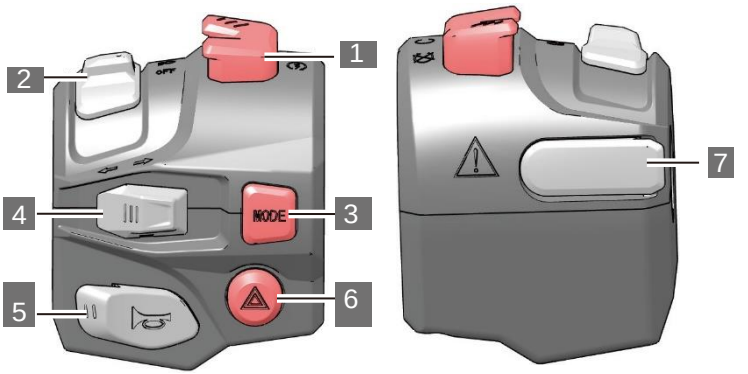
Ignition switch / Steering lock positions:

"**ON**"position:
All electrical circuits are on; all electrical systems can be used. The key cannot be removed in this position.

" **OFF** " position:
All electrical circuits are off. The key can be removed.

" **LOCK** " position:
The steering is locked in this position.

HANDLEBAR SWITCHES



1 Engine Start/Stop switch

"":Engine power on "": Engine stop "": Engine start

Starting the engine

1. Turn the ignition key to the "ON" position.
2. Step on the foot brake.
3. Press the engine Start/Stop switch to the " " position and release it after the engine will start. The switch will automatically return to the " " position.

Stop the engine

Press the engine Start/Stop switch to the "" position to stop the engine.

2 Lights switch

Use the Lights switch to control the vehicle lighting.

High Beam " ": Turns the high beam headlights on. The " " indicator on instrument panel illuminates to let you know that the high beam lights are on.

Low Beam " ": Turns the low beam lights on.

"OFF": Headlights are off, Daytime Running Lights are on.

Position lights " ": Turns the position lights on. The " " indicator on the instrument panel illuminates.

When the ignition switch is in the "ON" position, push the Lights switch to the desired position. To turn the lights off, push the switch to the "OFF" position.

3 Drive Mode switch

Sport Mode "S": Press the "MODE" button to select Sport mode (the LCD display will display "**S**"). This mode will increase the RPM of engine, the vehicle power and vehicle speed. The fuel consumption is higher. It is not recommended to start the engine in the Sport mode.

Economy mode: "MODE" button pops up. Under the condition of ensuring sufficient power of the vehicle, this mode can effectively allow to save fuel and enhance fuel economy.

4 Turn signal switch

Slide to the left to turn the left turn signals on. The " " arrow on the instrument panel will blink.

Slide to the right to turn the right turn signals on. The " " arrow on the instrument panel will blink.

Switch turn signal off by returning the switch to the central position.

5 Horn switch " " .

6 " " Hazard switch

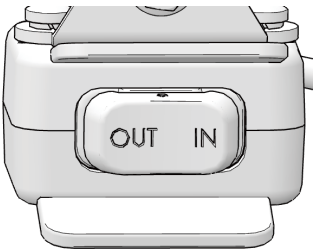
Press the switch to activate hazard warning lights in case of emergency, press it again to switch hazard warning lights off. The flasher lights flash when the hazard switch is on.
Use hazard warning lights when:

- Temporary parking the vehicle
- Failure of the vehicle
- When you encounter other emergencies

7 Override button

Increases the maximum speed limit of the vehicle in 4x4 Lock mode, and in reverse gear to override speed limit of 30 km/h. If the vehicle is in 4x4 Lock mode or in reverse, speed is limited to 30 km/h. If conditions require more engine power to help you get out of trouble, you can keep pressing this button to override the speed limiter function.

WINCH CONTROLLER (IF EQUIPPED)

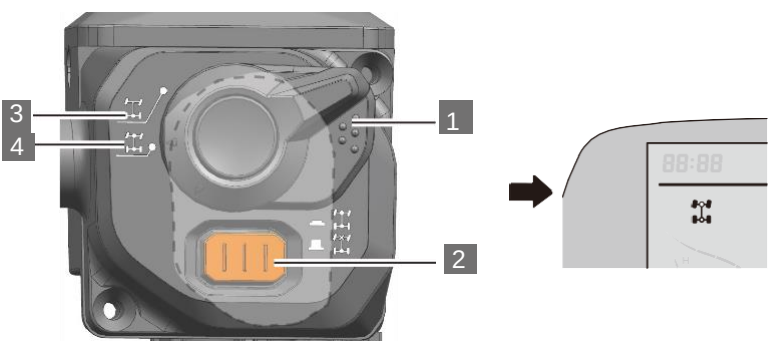


OUT: Release the winch rope

IN: Retract the winch rope

The winch is used to pull the load, or to get stuck vehicle out of mud or water. Please understand the proper winch operation and pay attention to guidelines on winch safety. Refer to the Winch Operation section for instructions and guidelines for using the winch.

2WD/4WD DRIVE SWITCH (NO REAR DIFFERENTIAL)



1 **Drive mode selection switch**
2 **Front differential lock button**
3 **2WD position**
4 **4WD position**

NOTE

The vehicle must be stopped before selecting 2WD or 4WD drive mode. Mechanical damage may occur if Drive mode selection switch is engaged or disengaged while driving.

2WD: Two-wheel drive mode

Rotate the selector lever downwards to select the two-wheel drive mode. Power is supplied to the rear wheels only. The 2WD drive symbol "  " appears on the LCD screen.

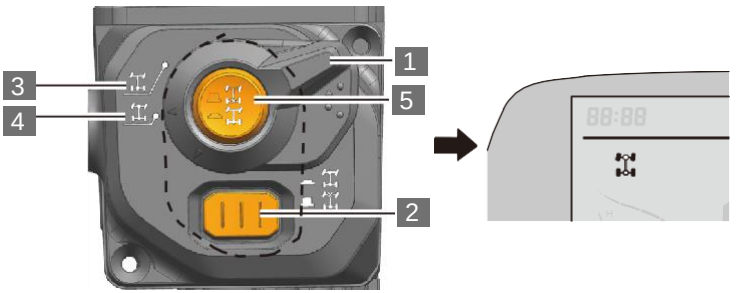
4WD: Four-wheel drive mode

Rotate the selector lever upwards to select the four-wheel drive mode. Power is supplied to the rear and front wheels. This mode is suitable for bad roads and muddy or steep hill areas. The four-wheel drive symbol "  " is appears on the LCD screen.

4WD Lock: Front differential lock mode

Rotate the selector lever upwards, and the front differential lock switch will pop up. The front differential lock symbol "  " will be displayed on the LCD screen. When the front differential is locked, power is supplied to the rear and front wheels. Unlike the 4WD mode, all wheels turn at the same speed and with the same power, all four tires are driven at the same time. When the front differential is locked, vehicle speed is limited to 30 km/h. This mode should only be used to get the vehicle out of trouble.

2WD/4WD DRIVE SWITCH (WITH REAR DIFFERENTIAL)



1 Drive mode selection switch
2 Front differential lock button
3 2WD position
4 4WD position
5 Rear differential lock button

NOTE

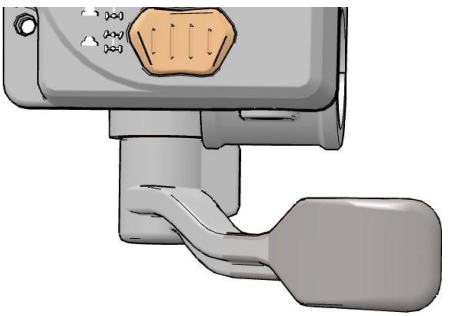
Changing the drive mode while driving can damage the transmission mechanism. Always stop the vehicle completely before changing the drive mode.

Drive switch position	Symbol on LCD display	Mode	Description
Rear axle differential mode			
Rotate the selector switch to " " position. Rear axle differential lock button " " is pressed.		2×4 Two-wheel drive mode	The two-wheel drive mode is selected. Only the rear wheels are driven. This mode is suitable for normal driving, on a level surface, and for smooth roads.

Rotate the selector switch to the " " position Rear axle differential lock button " " is pressed.		**4×4** Four-wheel drive mode	The four-wheel drive mode is selected. Power is supplied to the rear and front wheels. This mode is suitable for bad roads and muddy or steep hills areas.
Front axle differential lock button " " pops up. Rear axle differential lock button " " is pressed.		**4×4** Lock mode	The vehicle is in 4WD mode with locked front differential. Power is supplied to the rear and front wheels, both front tires (left and right) have the same speed and power. Vehicle speed is limited to 30 km/h in this mode. Use 4WD Lock mode to get out of trouble.
Rear axle lock mode			
Rotate the selector switch to the " " position Rear axle differential lock button " " pops up.		**2×4** Two-wheel drive mode	The two-wheel drive mode is selected. Only the rear wheels are driven. This mode is suitable for normal driving, on a level surface, and for smooth roads.
Rotate the selector switch to the " " position. Rear axle differential lock button " " pops up.		**4×4** Four-wheel drive mode	The four-wheel drive mode is turned on. Power is supplied to the rear and front wheels. This mode is suitable for bad roads and muddy or steep hills areas.
Front axle differential lock button " " pops up. Rear axle differential lock button " " pops up.		**4×4** rear axle lock mode	The vehicle is in 4WD mode with locked front differential. Power is supplied to the rear and front wheels, both front tires (left and right) have the same speed and power. Vehicle speed is limited to 30 km/h in this mode. Use 4WD Lock mode to get out of trouble.

THROTTLE LEVER

The throttle lever controls the engine speed. To increase the engine speed press the throttle lever with your thumb, to reduce the engine speed, release the pressure on the throttle lever. When you release your thumb completely, the engine returns to idle.



Throttle lever

⚠ WARNING

Before driving, check whether the throttle function is normal. If the throttle lever is stuck or the is not working properly, it can cause an accident. Do not start or drive the vehicle if the throttle lever is stuck or the is not working properly.

INSTRUMENT PANEL

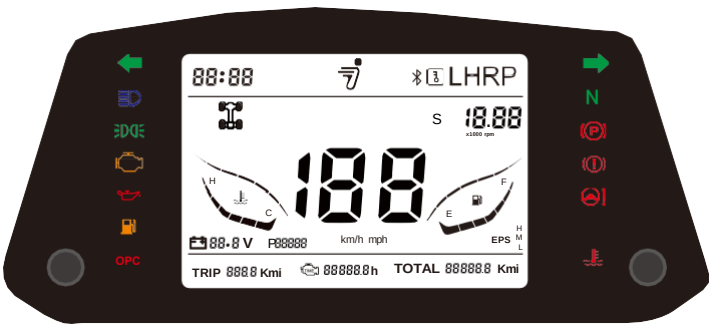
Instrument panel provides operator with the actual vehicle information. The driver should understand meaning of various indicators, warning lights and display information so as to immediately understand vehicle status.

NOTE

The LCD display may be damaged when using a high pressure washer. Do not clean the LCD display with alcohol or corrosive detergents. Corrosive liquids will damage the LCD display surface and can cause damage to instrument panel.

INDICATORS / WARNING LIGHTS

Indicator lights and warning lights indicate the status of the vehicle systems.

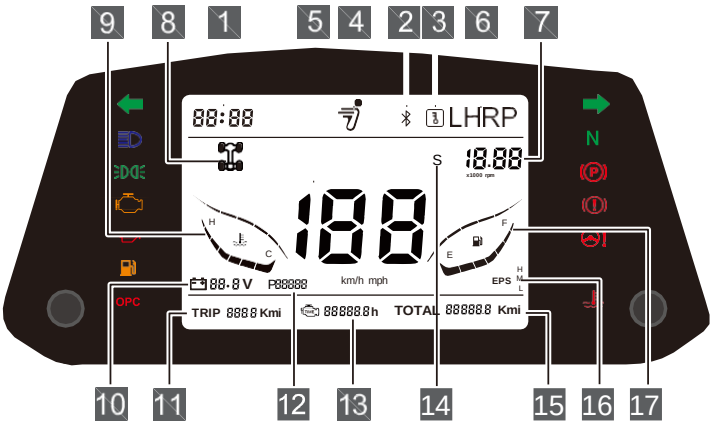


Indicator lights / Warning indicators

Item	Symbol	Function
Turn Left		This arrow will blink when the left turn signals are turned on.
High Beam		This light illuminates when the headlamp switch is set to High Beam.
Lights On		Headlights, taillights, license plate light and instrument panel are on.
Check Engine		This symbol appears if an EFI-related fault occurs. Do not operate the vehicle if this warning appears. Serious engine damage could result.

Oil Pressure Warning		This symbol appears when the oil pressure is low. Do not operate the vehicle if this warning appears.
Fuel level low		This symbol appears when the fuel level is too low.
Occupant Presence Control (if equipped)		This indicator appears when the driver laves the seat / vehicle without parking. Buzzer will beep.
Turn Right		This arrow will blink when the right turn signals are turned on.
Neutral		This light is on when the gear is in neutral.
Parking		This light is on after parking brake is applied.
Brake warning light		• Low brake fluid level • Braking system is faulty
Electric Power steering warning light		Indicates a failure in EPS system (if equipped).
Coolant temperature warning light		This indicator light informs about excessive temperature of engine coolant. When this warning light appears and alarm sounds, immediately stop the engine and switch it off. After cooling down to normal temperature, you can continue to drive.

LCD DISPLAY



No.	Meaning	Function
1	Clock	Displays actual time.
2	Bluetooth	When mobile Bluetooth and T-BOX are connected successfully, the Bluetooth symbol appears on display.
3	Remote access	In the APP in the mobile phone, click the "Remote Power On" button and the symbol appears. (The premise is that T-BOX networking is successful)
4	Segway logo	This logo lights up when power is On.
5	Speedometer	Displays the actual vehicle speed. The speedometer shows a speed in MPH (miles) or km/h (kilometers per hour).

6	Gear position	Displays the actual gear position: **L** – Low speed **H** – High speed **R** – Reverse **P** – Parking
7	Engine RPM	Displays actual engine rpm.
8	Drive mode	 2x4 mode 4x4 mode 4x4 lock mode (front differential lock) 2x4 lock mode (rear differential lock) 4x4 lock mode (rear differential lock) 4x4 lock mode (front and rear differential lock)
9	Coolant temperature	Displays actual coolant temperature: **H** – High temperature **C** – Low temperature
10	Battery voltage	Displays actual voltage of the vehicle battery.
11	Trip meter	Shows single trip mileage.

12	Diagnostic codes	When ECU, EPS, or T-BOX fails, the fault code is displayed in this area. See page 158 for detailed description of Diagnostic / Fault codes.
13	Engine hours	Displays total engine running time
14	Ride mode	When the vehicle is in Sport mode, "S" appears on display. (no symbol in Economy mode)
15	Total mileage	Displays the total mileage the vehicle has traveled.
16	EPS On	**M** – Medium, Standard mode **H** – High, Comfort mode (high assistance) **L** – Low, Low assistance
17	Fuel gauge	The fuel gauge shows approximately how much fuel is remaining in the tank. **F** – Full tank **E** – Fuel level is low. Refuel.

DISPLAY SETTING

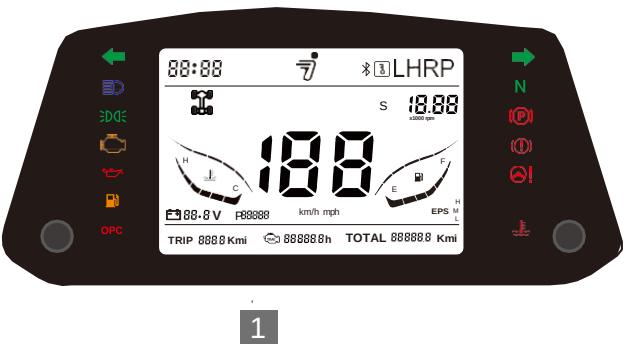
1 **Left button (MODE)**

2 **Right button (SELECT)**

Function	Left button	Right button	Display
Display brightness	Short press		Adjust backlight brightness (Default: Brightest)
Trip meter clear	Long press		Resets the trip meter
EPS mode setting		Short press	EPS level. Selected mode is displayed (M, H, L)
Europe / US units (this function is not available when the vehicle has a T-BOX)		Long press	Metric (European) units / imperial (US) units select
Clock settings (This function is not available when the vehicle has a T-BOX)	Long press	Long press	Hour digit flashing
	Short press		Hours +1
		Long press	Hours continuously +1
	Short press		Minute digit flashing
		Short press	Minutes +1
		Long press	Minutes continuously +1

DIAGNOSTIC CODES DISPLAY AREA

In this area ① appears the diagnostic code when the vehicle´s electrical system, components, wiring and other malfunctions or abnormalities occur. These codes make it possible for driver to identify and understand the corresponding abnormalities in help to solve the problem. See page 158 for Diagnostic display code definitions.

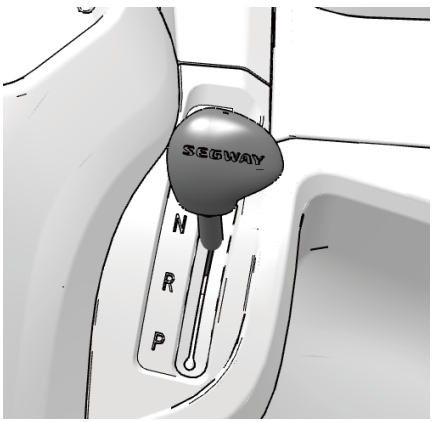


1 Diagnostic / Trouble code display area

GEAR SHIFT OPERATION

The shift lever is located to the right of the tank cover. After selecting the gear, wait until the L, H, N, R or P symbol on the LCD screen lights up confirming that desired gear has been properly shifted.

Gear shift pattern:



L Low speed

H High speed

N Neutral

R Reverse

P Parking

NOTE

If you will travel in speeds below 20 km/h for more than 10 minutes, be sure to use the low gear ("L").

You need to step on the brake pedal whenever you change gears.

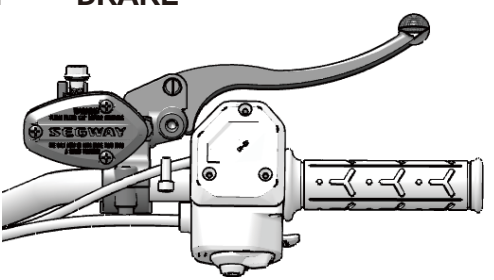
If you change gears when the engine is not in idle, or the vehicle is moving, gearbox damage can follow.

Place the transmission into Parking gear (“P”) and lock the parking brake when you dismount and leave the ATV.

FOOT BRAKE (MAIN BRAKE)

Foot brake is the main brake of the vehicle. Brake pedal is located on the right floorboard. When you need to slow down or stop, press the foot brake gradually. **Attention:** Panic braking can cause the vehicle to skid and roll over. Do not use the panic braking unless it's an emergency.

AUXILIARY BRAKE (FRONT)



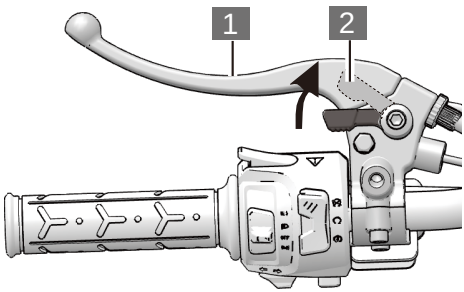
Auxiliary braking system (front brake) is meant as a backup of the main braking system. If the main brake system fails, use the auxiliary (front) brake lever on the right handlebar. Auxiliary brake brakes the front wheels.

⚠ WARNING

Use the auxiliary brake with caution when riding downhill. Overuse of the auxiliary brake may result in vehicle tip over or sideways rollover, which could result in serious injury or death.

PARKING BRAKE

The parking brake is located on the left handlebar.



1 **Parking brake lever** 2 **Parking brake lock**

Using the parking brake:

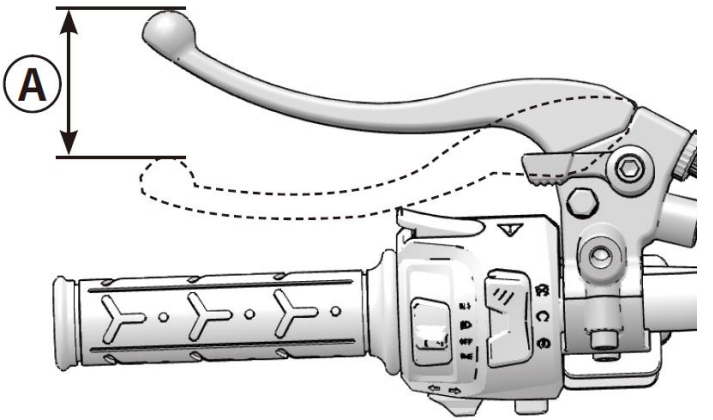
Place the gearbox in "P" position, squeeze the parking brake lever and hold. While squeezing the parking brake lever and holding it, rotate the parking brake lock forward. When you hear "click" sound, it confirms that parking brake lock is in place.

Release the parking brake:

Squeeze the parking brake lever, the brake lock will automatically spring open. Parking brake is released when you hear "click" sound.

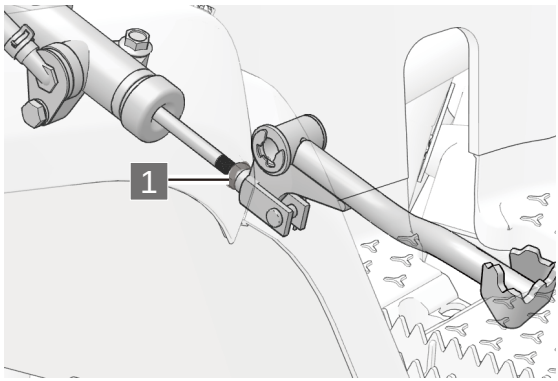
PARKING BRAKE LEVER FREE PLAY

Parking brake lever free play



1. Squeeze the parking brake lever firmly, repeat squeezing and releasing several times. The parking brake lever shall not be stuck.
2. Measure the distance the parking brake lever moves before the brake is engaged. Free play Ⓐ shall be: 25-30 mm (measured on the brake lever end). Adjust if necessary.
3. As the brake pads wear, the travel of the brake lever will increase. Therefore, brake pads need to be checked for wear from time to time and must be replaced when the wear limit is reached.

FOOT BRAKE PEDAL ADJUSTMENT

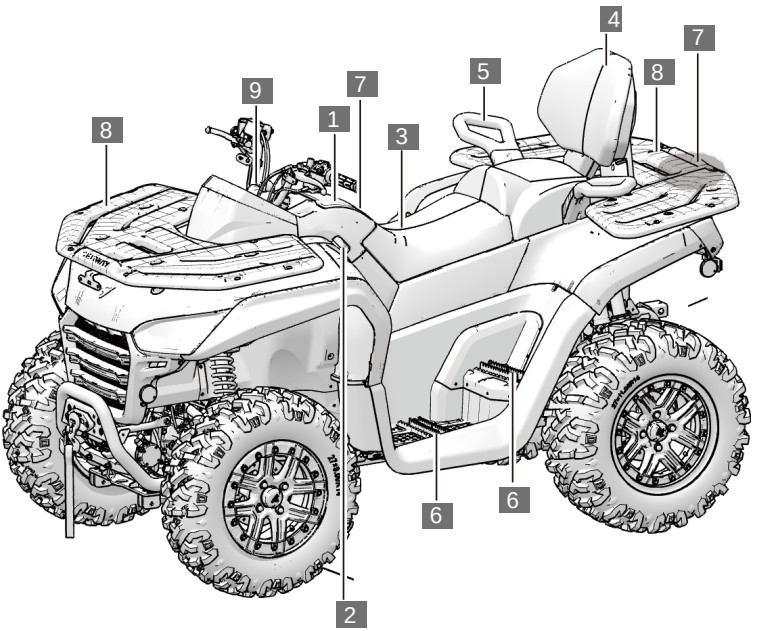


1 **Adjuster**

The foot brake pedal adjusting nut is located at the bottom, below the brake pedal. The brake pedal can be adjusted by turning the adjusting nut.

- Turn the adjusting nut clockwise to lower the brake pedal.
- Turn the adjusting nut counterclockwise to raise the brake pedal.

FEATURES



1 12V socket + USB port
2 Fuel tank cap
3 Seat
4 Passenger backrest
5 Passenger seat grabs
6 Foot pegs
7 Storage box
8 Front and rear rack
9 Handlebars

12 V SOCKET / USB PORT

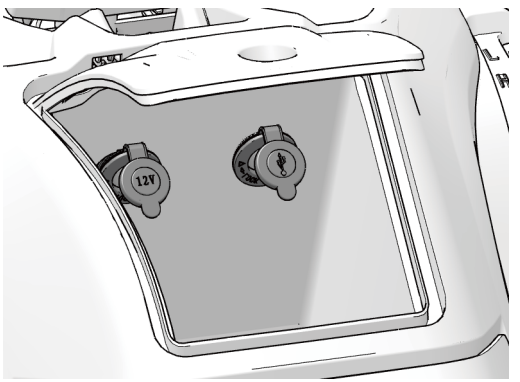
The vehicle is equipped with 12 V socket and two USB ports.

12 V socket is rated to power 12V devices with a current of less than 10A.

Output power: 12V

USB port: 5V

12 V Socket and 2x USB Port



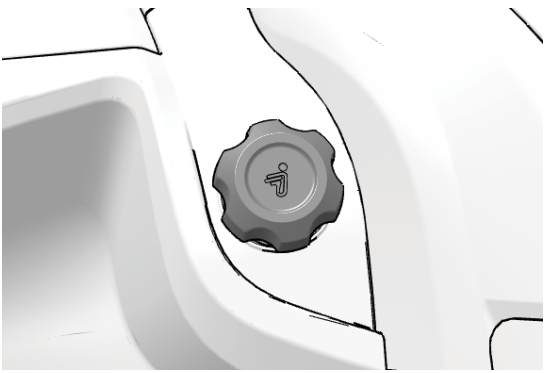
All power sockets are powered only when the ignition is On.

FUEL TANK CAP

⚠ WARNING

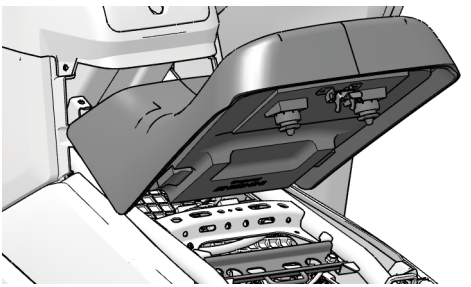
Always use only the fuel specified for your vehicle. Do not smoke when refueling as you may ignite the fuel and cause fire.

Do not touch other persons or objects with static electricity. This may cause spark to build up and ignite the fuel. Do not overfill the fuel. Do not let the fuel to spill while filling.



1. Unscrew the fuel cap clockwise.
2. Refuel (don't overfill the tank).
3. Close the fuel tank cap.

DRIVER´S SEAT



The rider´s seat is a quick-release type with a snap.

1. Pull the textile strap at the back of the seat to unhook the seat, then lift the seat upwards.
2. When the seat pops open, move it upward.
3. Remove the seat.

NOTE
There is electrical wire harness connector under the seat. Be careful when removing the seat and pulling it upward.

Seat installation

Insert the tab on the front of the seat into the U-bracket welded to the frame, push the seat forward and press the seat down to lock it.

⚠ WARNING
After the rider´s seat is installed, carefully check whether the seat is secured.

TOOL KIT

The driver's tool kit is located in the storage box under the seat. Tool kit is equipped with tools for basic maintenance.

PASSENGER SEAT / BACKREST

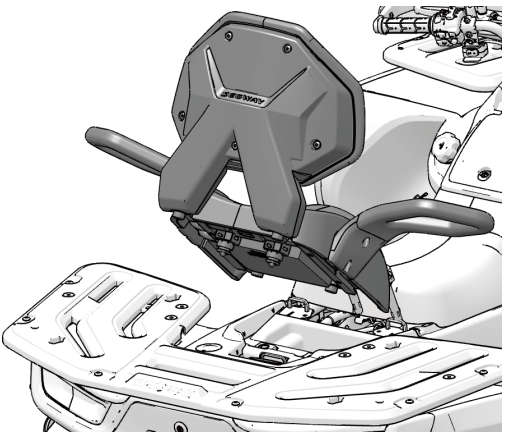
Removal

The passenger seat/backrest is one quick-release unit with a snaps.

1. Use your fingers to unhook the backrest hook and move the passenger seat/ backrest upwards.
2. When the passenger seat/backrest pops open, move it upward.
3. Remove the passenger seat/ backrest unit.

Installation

Insert the tab on the front of the seat into the U-bracket welded on the frame, then push the seat forward and press it down to lock it.

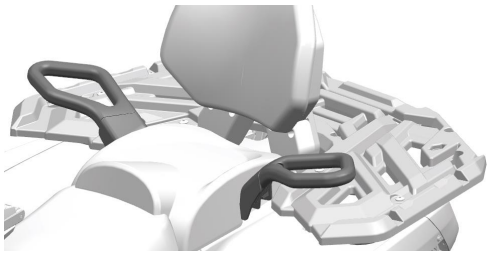


⚠ CAUTION

After the seat/backrest is installed, check that the seat is properly secured.

PASSENGER GRAB HANDLES

Passenger grab handles are located on the left and right side of the passenger seat.

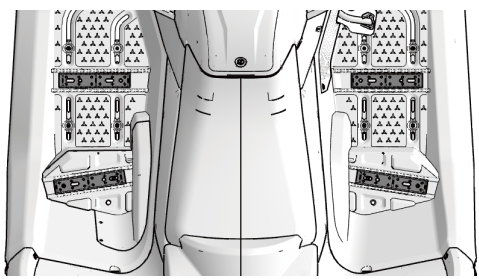


⚠ WARNING

Passengers must hold the passenger grab handles at all times while riding and must keep both feet firmly on the foot pegs.

FOOT PEGS

Foot pegs are located on the vehicle's floorboards.



⚠ WARNING

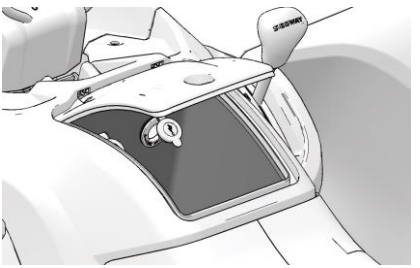
During the operation of the vehicle, both driver and passenger must keep their feet on the foot pegs at all times.

STORAGE BOX

This vehicle is equipped with 2 storage boxes.

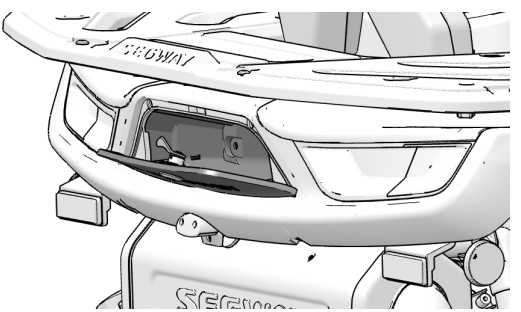
Front storage box

This storage box opens with a ignition key. 12V power outlet and two USB ports are located inside the storage box.



Rear storage box

Rear storage box door opens with a ignition key. The tool kit is placed in this storage box. The tool kit contains tools for basic vehicle maintenance.



⚠ CAUTION

Always lock the storage boxes before ride. Never place any fragile, flammable or heavy items in the storage boxes.

FRONT AND REAR RACK

Racks are used to carry equipment and other loads. They should never be used to carry people.

⚠ WARNING

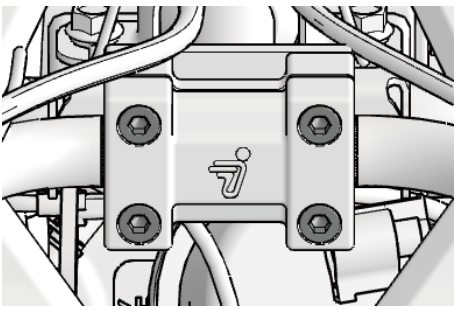
- Do not carry passengers on the racks.
- Loads must not interfere with the driver's view.
- Loads must not cover any of the lights.
- Loads must be carried as low on the rack as possible.
- The weight of the load must not exceed the stated maximum load capacity of the rack.
- Reduce speed when carrying cargo. Allow a greater distance for braking.

HANDLEBARS

The handlebars are adjustable to suit the rider's preferences.

⚠ WARNING

Improper adjustment of the handlebars or incorrect tightening of handlebars tightening bolts can cause limited steering or loosening of the handlebars, resulting in loss of control and possible serious injury or death. Always follow the adjustment procedure, or visit your dealer to check the tightening.



1 **Bolt M8×45 (4x)**

Handlebar bolts tightening torque:	35 Nm

1. Loosen four handlebar bolts.
2. Adjust the position of the handlebars according to the rider preferences.
3. Tighten the two front bolts, then tighten the two rear bolts. Leave a gap of 3 mm at the back of the clamp block.
4. Tighten the handlebar bolts.

OPERATION

OPERATION

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

Even if you have ridden other vehicles, you must take the time to familiarize yourself with how the ATV handles. Practice in a flat, wide area until you are familiar with the ATV handling and operation.

⚠ WARNING

Failure to inspect and verify that the vehicle is in safe operating condition before riding increases the risk of an accident. Always perform the pre-riding Inspection described in this manual before every use of your vehicle to make sure it's in safe operating conditions. Always follow the inspection and maintenance procedures and schedules described in this manual. See the Periodic Maintenance section.

PRE-RIDE INSPECTION

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

Correct any problem that you discover to reduce the risk of a breakdown or crash.

INSPECTION ITEMS

Item	Remarks	Page
Brake system	Ensure correct operation	44~47
Brake Fluid	Ensure proper level	109~112
Auxiliary brake	Ensure correct operation	44
Front suspension	Check, lubricate if necessary	119
Rear suspension	Check, lubricate if necessary	119
Tires	Check condition and pressure	113
Wheels	Check bolts / nuts for proper torque	116
Fuel Level	Ensure proper level	50
Coolant	Ensure proper level	107
Indicator lights	Check status	36~40
Switches	Ensure operation	27
Engine switch	Ensure correct operation	28
Headlights	Check operation	28
Brake light/tail light	Check operation	28
Riding equipment	Wear approved helmets, care and protective clothing	12~13
Trailer hitch (optional equipment)	Check wiring harness and socket	—

BASIC DRIVING GUIDE

TRAIL ETIQUETTE

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

KNOW YOUR RIDING AREA

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 or local officials.

VEHICLE BREAK-IN PERIOD

Your vehicle's break-in period is the **first 25 hours of operation**. Careful handling of new engine and drive components will improve the performance and service life of these components. Follow these steps carefully. After break-in, change the engine oil and oil filter.

BRAKE SYSTEM BREAK-IN PERIOD

To achieve the best brake performance of the new vehicle, the brakes need about 200 km of running-in.

Heavy or excessive braking when braking system is new may damage the brake pads and brake discs.

CVT CLUTCH / DRIVE BELT BREAK-IN

Proper run-in of the CVT clutch and drive belt will ensure longer service life and better performance. Break-in the clutch and belt at low speeds for the recommended period, with only hauling light loads. Avoid violent acceleration and high speed driving during break-in period. If the drive belt is broken, be sure to clean up the intake and outlet air ducts, take any debris from the clutch and engine compartment when you replace the drive belt.

NEW OPERATOR DRIVING PROCEDURES

1. Wear protective riding gear. See the Safe Riding Gear section.
2. Perform the pre-ride inspection.
3. Place the transmission in Park.
4. Mount the vehicle from the left side.
5. Sit upright with both feet on the footrests and both hands on the handlebars.
6. Start the engine and warm it up.
7. Drive slowly. Practice maneuvers and using the throttle and brakes on the flat area.

STARTING THE VEHICLE

1. Turn the ignition switch key to the "ON" position.
2. Step firmly on the brake pedal, or press firmly the brake lever, and place the transmission in “N” gear (Neutral).
3. Press the engine start/stop button "⏻" to start the engine, then release it.
4. The engine has started. Step firmly on the brake pedal.

PARKING THE VEHICLE

1. Step on the brake pedal and place the transmission in "P" position.
2. Press the engine Start/Stop switch to the "  " position to stop the engine.
3. Turn the key to the "OFF" position, and then remove the key.
4. Lock the parking brake lever. Step on the brake pedal and place the transmission to the "P" position.

TURNING THE VEHICLE

Turning on the ATV involves shifting your body weight. You must learn to lean and shift body into turn to maintain control.

1. Slow down.
2. Steer in the direction of the turn.
3. Keep both feet on the footrests.
4. Lean your upper body to the inside of the turn while supporting your weight on the outer footrest. This technique alters the balance of traction between the rear wheels, allowing you to turn smoothly. The same leaning technique should be used for turning in reverse.
5. Practice turns at slow speeds before attempting to turn at a higher speed.

⚠ WARNING

Turning improperly can result in vehicle overturn.
Never turn abruptly or at sharp angles. Never turn at high speeds.

DRIVING IN REVERSE

If you need to ride in reverse, make sure the area behind you is clear, and drive at low speed.

Do not use the override switch, unless situation or terrain require additional power. Use the override switch with caution as rearward vehicle speed will be greatly increased. Do not operate at wide open throttle. Press the throttle just enough to maintain the desired speed.

To reverse, follow this procedure：

1. Always check for obstacles or people behind the vehicle. Be sure there are no obstacles or people in your way.
2. Press brake pedal and change the gears to "R" position.

TURNING AROUND ON A HILL (K-TURN)

If the vehicle stalls while climbing a hill, never back down the hill! Use the K- turn to turn around.

1. Stop and lock the parking brake while keeping body weight uphill.
2. Leave the transmission in forward and shut off the engine.
3. Dismount on the uphill side of the vehicle, or on the left if the vehicle is pointing straight uphill. Staying uphill of the vehicle, turn the handlebars full left.
4. While holding the brake lever, release the parking brake lock and slowly allow the vehicle to roll around to your right, until it's pointing across the hill or slightly downwards.
5. Lock the parking brake. Remount the vehicle from the uphill side, keeping body weight uphill. Start the engine with the transmission still in forward.
6. Keeping the transmission in forward, start the engine.
7. Release the parking brake and proceed slowly. Control speed with the brake lever, until the vehicle is on flat ground.

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 drive before wheels begin to lose traction.

NOTE

Severe damage to drive train may occur if the 4x4 is engaged while the wheels are turning. Allow the wheels to full stop 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. Never apply the brakes during a skid. Correct a skid by turning the handlebars in the direction of the skid.

DRIVING THROUGH WATER

Your ATV can operate through water with a maximum depth up to the bottom of the floorboards. Follow these procedures when operating in through water:

⚠ CAUTION

Major engine damage can result if the vehicle is not thoroughly inspected after operation in water. Perform the services outlined in the Periodic Maintenance Chart. The following areas need special attention: engine oil, transmission oil, differential 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. Contact your Segway Powersports authorized service. If it's impossible to bring the vehicle to the dealer without starting the engine, perform the service outlined in the Vehicle Immersion section of this manual, and take the vehicle for service at the first opportunity.

1. Determine water depth and current before entering water.
2. Choose a crossing where both banks have gradual inclines.
3. Avoid operating in deep or fast-flowing water.
4. After leaving water, test the brakes. Apply them lightly several times while driving slowly. Friction will help dry out the pads.

If it's unavoidable to enter water deeper than the floorboards level:

- Proceed slowly. Avoid rocks and obstacles under water.
- Balance your weight carefully. Avoid sudden movements.
- Maintain a steady speed. Do not make sudden turns or stops. Do not make sudden throttle changes.

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 area.

3. When you approach the obstacle, reduce your speed and be prepared to stop.
4. Never try to ride over large obstacles such as large rocks or fallen trees.
5. Always let the passenger dismount before driving over an obstacle that could cause a fall from the vehicle or vehicle to tip over.

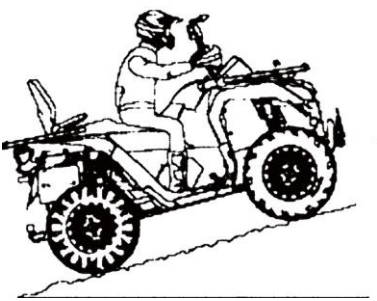
DRIVING UPHILL

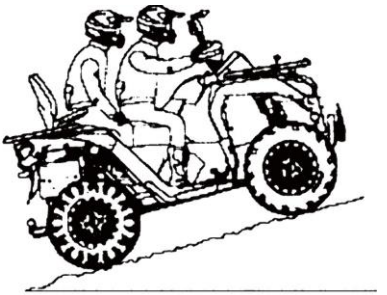
Braking and handling are greatly affected when operating in steep hills. Improper procedure could cause loss of control or rollover. Whenever traveling uphill, follow these precautions:

1. Drive straight uphill.
2. Avoid steep hills.

Maximum incline:

- Without passenger: **25°**
- With passenger: **15°**





Without passenger: 25˚ **With passenger: 15˚**

3. Always carefully check the terrain before ascending a hill.
4. Never climb hills with excessively slippery or loose surfaces.
5. Keep both feet on the footrests.
6. Shift your body weight uphill. A passenger should also shift his/her body weight uphill.
7. Proceed at a steady speed and throttle. Opening the throttle suddenly could cause the ATV to flip over backwards.

DRIVING DOWNHILL

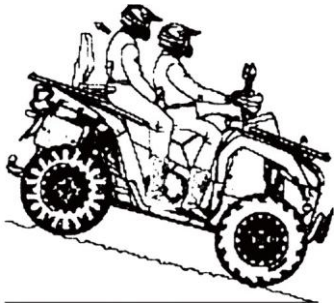
When driving downhill, follow these precautions:

1. Avoid steep hills.

Maximum incline:

- Without passenger: **25˚**
- With passenger: **15˚**

Without passenger: 25˚



With passenger: 15˚

2. Always check the terrain carefully before descending a hill.
3. Always descend a hill with the transmission in gear. Do not descend a hill with the transmission in neutral.
4. Slow down. Never go down a hill at high speed.
5. Drive straight downhill. Avoid descending a hill at an angle, this would cause the vehicle to lean sharply to one side.
6. Shift body weight uphill. Also passenger should shift his/her body weight uphill.
7. Apply the brakes slightly to aid in slowing. Applying the brakes too firmly may cause the rear wheels to lock, which could result in loss of control.

DRIVING ON A SIDEHILL

Driving on a sidehill is not recommended. Improper procedure could result in loss of control and overturn. Avoid crossing sidehills unless absolutely necessary.

If crossing a sidehill is unavoidable, follow these precautions:

1. Slow down.
2. Avoid traversing of steep hills.

3. Lean into the hill, transferring your upper body weight toward the hill while keeping your feet on the footrests.

4. If the vehicle begins to tip over, quickly turn the handlebars in downhill direction, if possible, or dismount on the uphill side immediately!

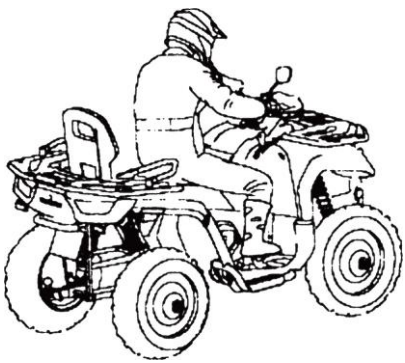
PARKING ON AN INCLINE

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

1. Stop the engine.
2. Place the transmission in Park (“P” - position).
3. Lock the parking brake.
4. Always block the rear wheels on the downhill side.

BRAKING

1. Release the throttle completely. (Note: When the throttle is released completely and engine rpm slows to near idle, the vehicle has no engine braking.)
2. Press on the brake pedal evenly and firmly. 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 structures, be sure that the area is well ventilated and that the vehicle is not near to sources of open flame or sparks, including gas appliances with pilot lights.
2. Place the transmission in Park.
3. Turn the engine off.
4. Engage the parking brake.
5. Before leaving the seat, slowly release the brake pedal and make sure the gearbox is in Park.
6. Remove the ignition key to prevent unauthorized use.

BREAK-IN GUIDELINES

The engine needs a break-in period of 300 km.

During break-in period:

- Avoid using full throttle.
- Avoid using more than 3/4 throttle.
- Avoid hard or sudden acceleration.

The brakes need a 200 km break-in period.

New brakes will not operate at their maximum efficiency during the break-in period. Brake performance may be compromised at this time, be careful.

NOTE
During break-in period, avoid full-throttle operation, rapid acceleration and constant operation in high rpm.

LOADING LIMITS AND GUIDELINES

The front and rear racks are designed for carrying load up to stated capacity. Tow hitch behind the vehicle can tow trailers and carry accessories.

Any load, carried by the vehicle, will affect the vehicle's handling, stability and braking performance. Do not exceed the vehicle loading limits, including driver, passenger, cargo, accessories weight, and trailer tongue weight. Be aware that the cargo may slip or fall, and cause an accident

⚠ WARNING

- **Strictly follow the instructions in the owner's manual of your trailer, or mounted or trailed machinery. Do not operate the combination vehicle-trailer unless all instructions have been followed.**
- **Stay clear of the area between vehicle and trailer.**
- **Reduce speed and allow greater braking distance when carrying loads.**
- **Carry loads as low on the cargo racks as possible. Too much cargo on the racks can raise the vehicle's center of gravity and reduce stability.**
- **Fix all load before ride. Unstable load can create unstable driving conditions, which can result the vehicle to lose control.**
- **Heavy load causes braking and control problems. Take extra care when braking with the loaded vehicle. Avoid terrain or conditions that may result in backing downhill.**
- **Take extra care when carrying goods beyond the sides of the cargo racks. Stability and mobility may be affected, causing the vehicle to tip over.**

⚠ WARNING

- **Do not let the load on the front rack to block the headlight beam.**
- **Don't drive faster than recommended speed. When towing a load on a flat ground, vehicle should not exceed 15 km/h.**
- **When towing or carrying loads in rough terrain, when turning, climbing or descending a hill, you must not exceed a speed of 8 km/h.**
- **When the vehicle speed is lower than 20 km/h for more than 10 minutes, make sure to use "Low" gear.**

MAXIMUM LOADING CAPACITY

Never exceed maximum loading capacities.

MODEL	SGW1000F-A3 / SGW1000F-A7
Front rack	40 kg
Rear rack	60 kg
Maximum unbraked towing mass	450 kg
Maximum unbraked tongue mass	95 kg
Maximum braked towing mass	700 kg
Maximum braked tongue mass	95 kg

LOADING GUIDELINES

When transporting cargo, follow these instructions:

1. Do not exceed the weight specified on the warning labels and in this manual.
2. Never ride with passengers on the front or rear cargo racks.
3. Always load the cargo on the rack as low as possible.

4. Ensure that the cargo loaded on the rack is firmly secured before driving. If the cargo is not secured, it can cause unexpected movement.
5. Avoid riding on steep hills when carrying cargo or pulling a trailer.
6. Use Low gear when hauling heavy cargo.
7. When carrying cargo, ride with caution.

TRAILER

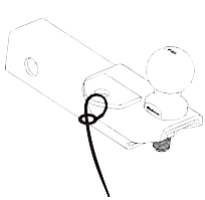
The towing device is a detachable. It can be removed from the ATV if you are not using a trailer. If you need to tow a load, please be informed that the towing weight does not include weight of the towing device.

- The combination of the weight on the rear rack and the tongue weight must not exceed loading capacity of the rear rack.
- The total load (weight of the operator, passengers, accessories, cargo and trailer) shall not exceed the maximum capacity of the vehicle.

If a designated attachment point is provided on the tow hitch:

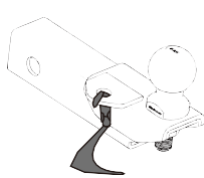
Either:

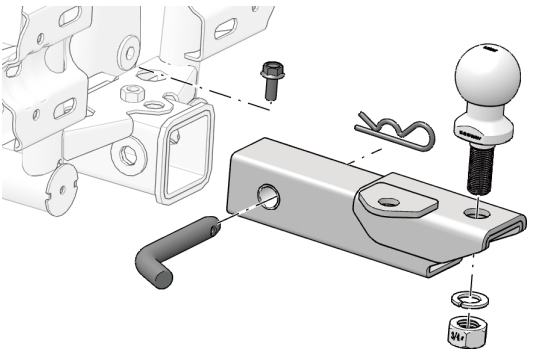
Pass the cable through the attachment point and clip it back on itself.



Or:

Attach the clip directly to the designated point. This option must be specially permitted by the trailer manufacturer since the clip may not be sufficiently strong enough for using this way.





NOTE

The speed must be less than 15 km/h when towing.

Use of improper hitch or exceeding the maximum tongue weight capacity may cause serious damage to your vehicle. In this case, your ATV will not be covered by warranty.

Never install car accessories on this ATV. Always install only accessories approved or designed for ATV use.

WINCH GUIDE

If your vehicle is equipped with a winch, please read this manual before using to understand and to familiarize yourself with safety precautions and operating instructions.

⚠ WARNING

The user must read and understand the operating instructions and warnings in this manual. If the instructions or warnings are not followed, serious property damage or personal injury may occur.

- It is strictly prohibited for people under 16 years old to operate the winch.
- The user must read and understand the operating instructions and warnings in this manual. If the instructions or warnings are not followed, serious property damage or personal injury may occur.
- Before or during winching, pay attention to the safety and environmental conditions within the operating range of the winch.
- Do not overload the winch. Ensure that all winch accessories meet the maximum rope pull force rating. We recommend using an optional pulley block and double rope winching to reduce the load on the winch, rope and battery. When using double rope winching, the rated value of the pulley block should be 2x the pulling capacity of the winch.
- Do not pull heavy loads for a long time. Electric winches are only designed to use for a limited time. Winch should not be used under constant load. Do not pull for more than 1 minute, or near the winch rated load. If the winch motor feels very hot, stop the winch and let it cool for a few minutes.

- Always be sure that at least five (5) full turns of winch cable are wrapped around the winch drum.
- Avoid pulling from extreme angles, as this will cause the rope to accumulate at one end of the drum and damage the rope.
- Be aware, that the maximum pulling capacity of the winch is the maximum pulling capacity on the first layer only - only the first layer can be pulled in max. winch capacity. Do not overload the winch.
- Never hook the cable back to itself; otherwise the cable will be damaged. Use trunk protection protector.
- Before operation, make sure that the winch is firmly fixed to the vehicle or bracket.
- Before moving heavy objects, check the winch cable to prevent kinks and uneven wire layers. The slacked cable must be properly tightened under a weight of about 50 kg.
- When pulling the load, be sure to lay a blanket or protective layer on the 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 and cause damage to the rope.
- Pay attention to the dangerous areas and stay away from dangerous areas during the operation. Dangerous areas are 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 vehicle transmission in neutral and apply brake of the vehicle and block all wheels with chocks. When the winch is working, the vehicle engine should be running in order to charge the battery. Never use the winch with insufficient battery voltage.
- Never disconnect the power supply when there is a load on the winch.

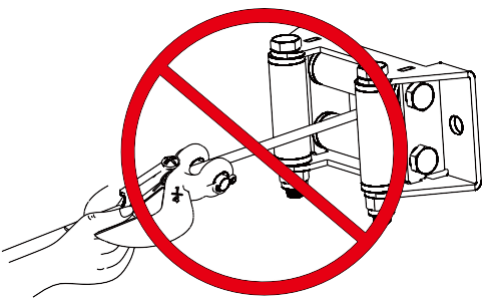
- After the winching, release the load immediately. Do not tighten the cable.
- Always stay away from rope, hook and winch.
- Check winch, rope, hook, and broken strands of worn rope regularly. When operating with the steel wire cable, wear thick leather gloves. Never let the steel wire cable run through your hands. Check the steel cable before use. Crushed, pinched, worn or kinked areas seriously reduce cable working load limit. Damaged wire cable should be replaced.
- First disconnect the clutch, then pull the rope by the hook strap. Do not pull the rope directly by the hook with your fingers.
- After the use, pull the winch rope tightly with about 50 kg of tension, using the hook strap.
- Do not operate the winch under the influence of alcohol or drugs.
- If there is a problem with winch, cut off the battery immediately and check the winch carefully.
- Wear goggles, long sleeves, non-slip boots, work cap and thick leather gloves. Keep your hair under the work cap and remove all jewelry.
- Do not repair or modify any part of the winch.
- When the winch is in use, start the vehicle engine and set the gear position to "N" to make sure battery is charging.
- When the winch is working, the electric current is very large. Start the vehicle engine and apply the throttle lightly to avoid damage to the battery.
- The winch rope should be in a straight line with the vehicle. Too big an angle will change the direction of the pulling force, thereby damaging the rope.
- If severe noise or vibration occurs during the use of the winch, stop the winch immediately.
- When the winch is not used, remove and store 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, maintain a certain tension (cca 50 kg) so that the rope can be retracted smoothly and can be wound tightly during retrieving.

⚠ WARNING

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



MAINTENANCE, STORAGE AND TRANSPORTATION

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PERIODIC MAINTENANCE

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

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

Service and adjustments are important for proper vehicle operation. If you're not familiar with safe service and adjustment procedures, have an authorized Segway service perform these operations.

Maintenance intervals in the Periodic maintenance chart are based upon average riding conditions. Vehicles subjected to severe use 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 environment
- Short operation in cold weather
- Racing or racing-style in high RPMs
- Prolonged low speed operation with heavy loads
- Extended idle

PERIODIC MAINTENANCE CHART KEY

SYMBOL	DESCRIPTION
►	Perform these procedures more often for vehicles subjected to severe use.
D	Have an authorized dealer 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 dealer perform these services.

Perform all services at interval whichever is reached first (km or hours).

PRE-RIDE CHECK

	ITEM	MAINTENANCE INTERVAL (PRE-RIDE CHECK)			REMARKS
		HOURS	CALENDAR	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		
	Throttle		Pre-Ride		
	Engine oil level		Pre-Ride		
	Air filter, Pre-filter		Daily		Inspect. Clean often. Replace if needed.
	Coolant		Daily		Check level
	Electric Power Steering (if equipped)		Daily		Inspect daily. Clean often.
	Headlights / taillights/ flashers / position lights...		Daily		Check operation.

AFTER BREAK-IN MAINTENANCE

ITEM		MAINTENANCE INTERVAL AFTER BREAK-IN KM	REMARKS
	Fuel System	300	Break-in check: Turn key to pressurize fuel pump; check lines and fittings for leaks and damage
	Engine oil change	300	After break-in change oil and oil filter
	Front gearcase oil	300	After break-in check oil level
	Rear gearcase oil	300	After break-in check oil level

PERIODIC MAINTENANCE

Make sure to perform proper maintenance at recommended intervals as indicated in the chart. Some items must be performed according to the calendar regardless of the km distance or engine hours.

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HOURS	CALENDAR	KM	
►	Brake pad wear	10 H	Monthly	160	Inspect periodically; replace as needed
	Battery	20 H	Monthly	300	Check terminals; clean; test
►	Air filter - main element	50 H		800	Inspect; replace as needed; inspect frequently if subject-ed to severe use
►	General lubrication	50 H	3 M	800	Lubricate all fittings, pivots, cables, etc.
	Intake air ducts	50 H	6 M	800	Inspect ducts for proper sealing/air leaks
	Drive belt	50 H	6 M	800	Inspect; adjust; replace as needed
	Cooling system	100 H	12 M	1600	Inspect coolant strength seasonally; pressure test system yearly
►	Engine oil change	100 H	12 M	1600	Change the oil and oil filter

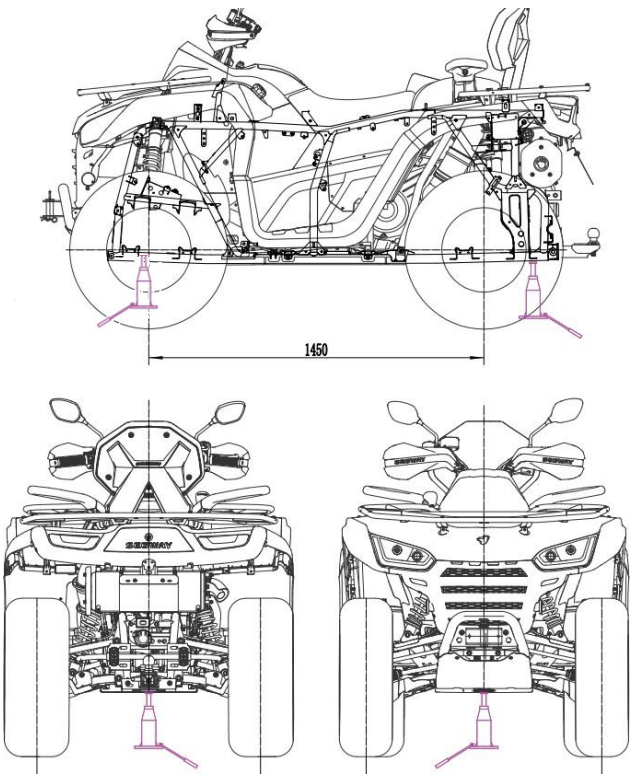
PERIODIC MAINTENANCE

	ITEM	MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HOURS	CALENDAR	KM	
►	Oil lines and fasteners	100 H	12 M	1600	Inspect for leaks and loose fittings
►	Front gearcase oil	100 H	12 M	1600	Change oil;
►	Rear gearcase oil	100 H	12 M	1600	Change oil
D	Fuel system/filter	100 H	12 M	1600	Turn the key to pressurize fuel pump; check for leaks at fill cap, fuel lines/rail and fuel pump; replace lines every 2 years
►	Radiator	100 H	12 M	1600	Inspect; clean external surfaces
►	Cooling hoses	100 H	12 M	1600	Inspect for leaks
►	Engine mounts	100 H	12 M	1600	Inspect, tighten
	Exhaust muffler/ Pipe / Joints	100 H	12 M	1600	Inspect; clean; replace worn parts
D	Spark plugs	100 H	12 M	1600	Inspect; replace as needed
D	CVT clutch (drive and driven)	100 H	12 M	1600	Inspect; clean; replace worn parts
D	Wheel bearings	100 H	12 M	1600	Inspect; replace as needed
D	Brake fluid	200 H	24 M	3200	Change every 2 years
	Spark arrestor	300 H	36 M	4800	Inspect, clean
►	Coolant		60 M		Replace coolant
D	Valve clearance	500 H		8000	Inspect; adjust
D	Toe adjustment				Inspect periodically; adjust when parts were replaced
	Headlight aim				Adjust as needed

LIFTING AND SUPPORTING THE VEHICLE

Place vehicle on a flat non slippery ground. Engage the 4WD mode. Ensure the shift lever is in PARK (“P” position).

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：



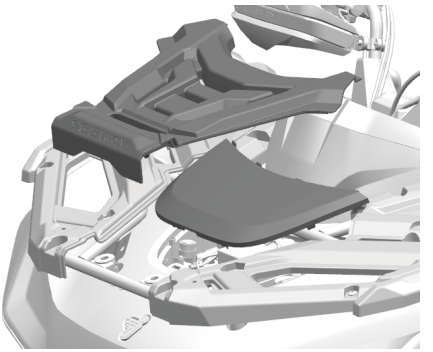
Schematic diagram of jack support position

FRONT SERVICE COVER REMOVAL

The coolant filler and fuse box are located under the front service cover.

To remove the front service cover:

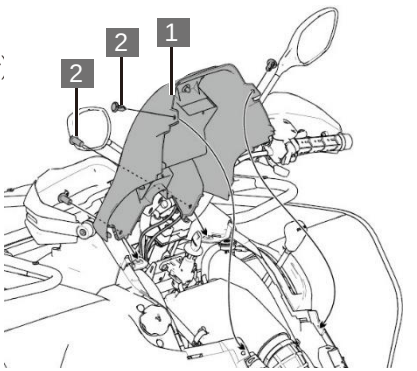
Front rack cover plate and front service cover are both quick-release type with snaps, and can be quickly removed.



FRONT STORAGE BOX REMOVAL

The air filter is located under the front storage box (tank cover).

1. Remove the seat.
2. Remove the expansion screws in the front storage box with tools.
3. Lift the front storage box upward.



1 Front storage box 2 Expansion screws

NOTE

There are two connecting wire harnesses at the bottom of the front storage box. If you want the front storage box to remove completely, disconnect the connectors.

LUBRICATION GUIDE

Check and lubricate 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 A-arms are lubricated from the factory and do not require additional lubrication. However, if these components are heavily used, the user may perform additional lubrication as required.

Item	Lubricant	Capacity	Remarks
Engine oil	SAE 10W-40 or higher	2200 ml	Maintain level in safe range in the oil level sight window
Front axle gear oil	SAE 80W-90 GL-5	310 ml	Keep the level at the 1/3rd of the sight window
Rear axle gear oil	SAE 80W-90 GL-5	1200 ml	Keep the level in the middle of the window
Coolant	• ECO BS -35°C Green • Maxima Coolanol	5500 ml	Keep the level between the fill lines.
Brake fluid	DOT4		Keep the level between the fill lines.
Suspension / stabilizer bar	Semi synthetic waterproof grease	—	Grease fittings (maximum 2 pumps) every 800 km

ENGINE OIL

Be sure to check and change the oil at the intervals required by the maintenance chart. Be sure to use only the recommended engine oil. The oil filter must be changed every time when engine oil is changed. Pay special attention to the oil level. An increase of oil level during cold weather can indicate contaminants collected in the oil sump or crankcase. If the oil level begins to rise, change the oil immediately. Monitor the oil level, if it continues to rise, stop using your vehicle and determine the cause. Contact your dealer for service.

⚠ WARNING

Operation with insufficient, degraded or contaminated engine oil will cause accelerated wear and tear, and may result in engine seizure, accident and injury. Always perform the maintenance procedures listed in the Periodic maintenance chart.

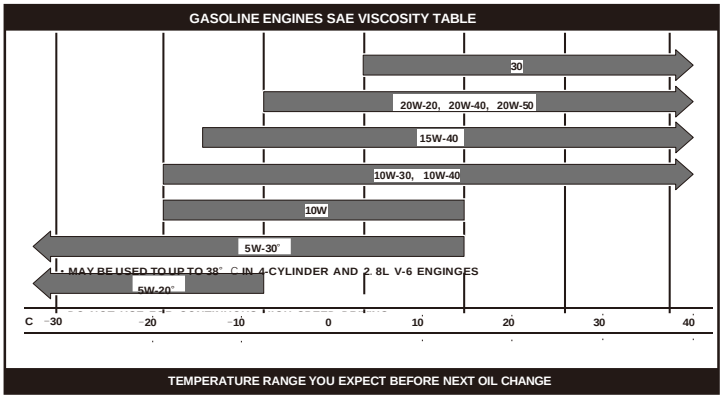
RECOMMENDED ENGINE OIL

Change the oil filter every time you change the oil.

Segway Powersports recommends to use **MAXIMA ATV FULL SYN 10W40** engine oil for this model. Refer to the Lubrication Guide for oil recommendations and capacities.

⚠ CAUTION

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



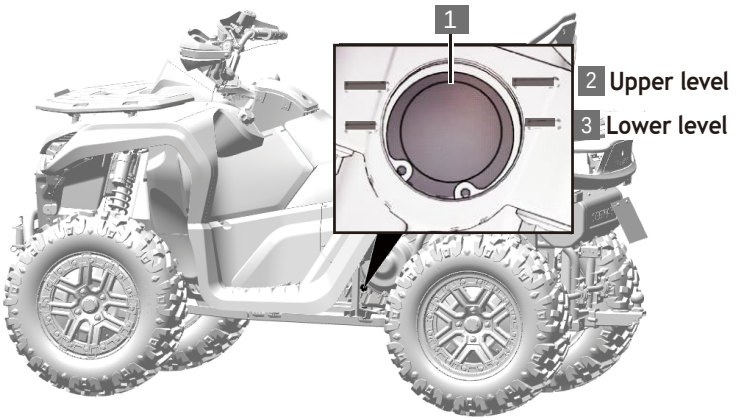
ENGINE OIL LEVEL CHECK

NOTE

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

The oil level can be checked through the oil window on the left side of the engine.

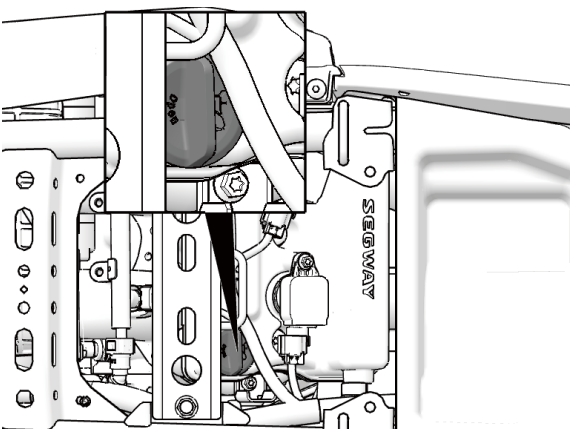
1. Park the vehicle on a level ground.
2. Idle the engine for 3 minutes, then allow the oil to flow back to the bottom of the oil sump.
3. Check the oil level through the oil window, The oil level should be between the upper and lower marks. Oil below the lower mark means the oil is too low and should be added, oil above the upper level mark means there is too much oil in the engine.



1 Oil level window 2 Upper level 3 Lower level

4. If the oil level is too low, add the oil. Do not overfill.

ADDING ENGINE OIL



The engine oil filler cap is located under the seat.

1. Remove the oil filler cap.
2. Add the proper amount of recommended oil. Do not overfill. Oil level at the top of the oil level window is the correct level.
3. Tighten the oil filler cap.
4. Place the gear in Park.
5. Lock the parking brake.
6. Start the engine and let it idle for 1-2 minutes.
7. Stop the engine.
8. Check for oil leaks.
9. Check the oil level and add oil if necessary to bring the oil level to the Upper level of oil level window.

CHANGING ENGINE OIL AND OIL FILTER

Have an authorized Segway Powersports dealer change engine oil.

NOTE

Whenever changing oil, change also the oil filter.

⚠ WARNING

- **Used engine oil contains potentially hazardous pollutants which can cause skin diseases such as dermatitis and skin cancer. Care should be taken to avoid prolonged and repeated exposure to the used oil. Wash the skin thoroughly with soap and hot water to remove engine oil from your skin.**
- **Used oil and used oil filter must be disposed in a safe way according to environmental regulations. Do not dispose used oil and oil filter in domestic garbage, sewers or on the ground. For information on oil recycling or scrapping, please consult your Segway Powersports dealer.**
- **Do not leave used engine oil in a place where children can reach.**

FRONT / REAR DIFFERENTIAL AND GEAR BOX OIL

Check and replace the gear case oil according to the intervals in Periodic maintenance chart.

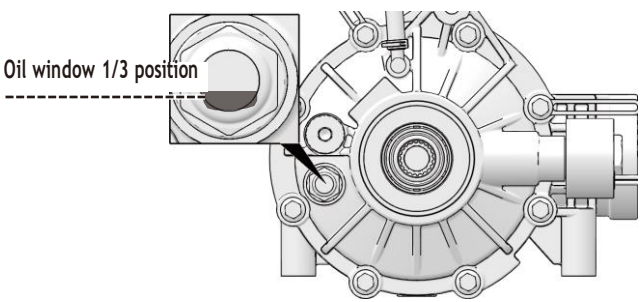
NOTE

If the front differential makes excessive noise during 4WD operation, change the front gear oil. If the noise continues, contact Segway Powersports dealer for inspection and service.

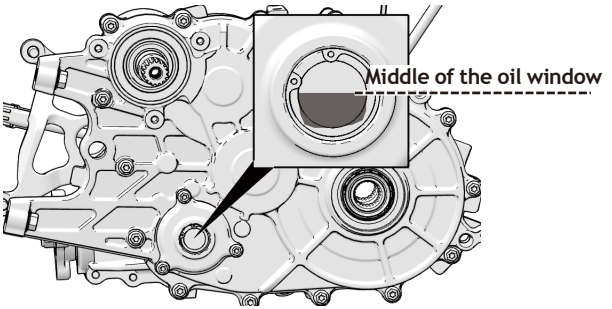
Use recommended gear oil only, see Specifications. Use of other oils may cause improper operation of gearbox / differential.

FRONT DIFFERENTIAL OIL CHECK

Front gearbox oil level can be viewed through the oil check window on the left side of the front gearbox. Normal oil level is in 1/3rd of oil check window. If the oil level is too low, add the appropriate amount of recommended oil.



REAR DIFFERENTIAL AND GEAR BOX OIL



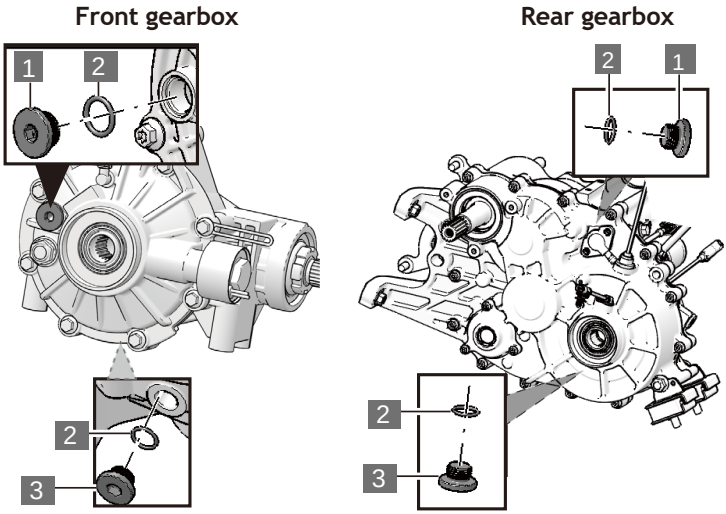
Rear gearbox oil level can be viewed through the oil check window on the left side of the rear gearbox. Normal oil level is in the middle of oil check window. If the oil level is too low, add the appropriate amount of recommended oil.

ADDING FRONT / REAR GEARBOX OIL

The front oil filler plug is located on the left side of the front gearbox.
Rear gearbox oil filler plug is located on the right side of rear gear case.

Recommended differential oil: MAXIMA PREMIUM GEAR OIL 80W90

Recommended rear gearbox oil: MAXIMA PREMIUM GEAR OIL 80W90



1. Position the vehicle on a level surface. Remove the oil filler plug.
2. Add appropriate amount of recommended oil. Level should reach bottom of fill hole threads.
3. Reinstall the oil filler plug and O-ring. Tighten the plug to the recommended torque. Only new O-rings must be used.
4. Check for leaks.

Oil filler plug tightening torque:	16-20 Nm

CHANGING FRONT / REAR DIFFERENTIAL OIL

Have an authorized Segway Powersports service change the front / rear differential oil in intervals specified in the Periodic maintenance chart.

CVT DRIVE BELT

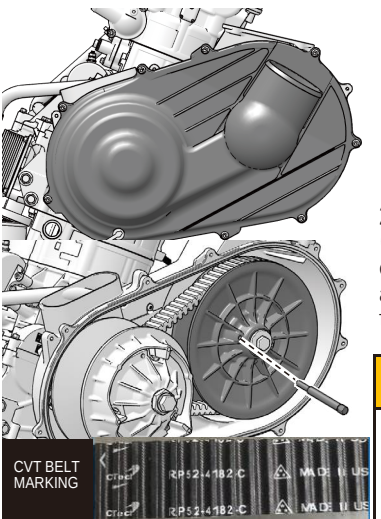
Check the CVT drive belt in intervals specified in the maintenance schedule. If the CVT belt is damaged, it should also be replaced.

DRIVE BELT REPLACEMENT / DEBRIS REMOVAL

When replacing belts, remove also debris from intake and outlet ducts and clutches.

⚠ WARNING

Failure to remove all debris when replacing drive belt may result in vehicle damage, loss of control and serious injury or death.



Removing drive belt

Stop the engine and allow it to cool down sufficiently.

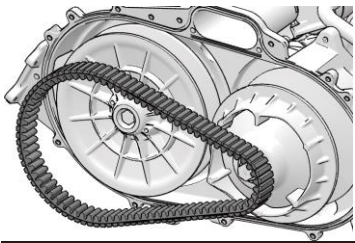
1. Remove the bolts from the CVT outer cover, remove outer cover and its sealing ring.

2. Use the driven pulley top rod (special tool) to support the hole of the driven pulley as shown. Use a tool to twist the top rod to open the driven pulley.

⚠ WARNING

When installing new drive belt, pay attention to the direction of the markings (such as manufacturer name, arrow marks, etc.) on the drive belt, so that the drive belt can be reinstalled on the pulley in the original direction.

3. Remove the drive belt from the drive and driven pulley.



DRIVE BELT INSTALL

4. Remove the old drive belt and clean the debris inside the CVT compartment.

⚠ CAUTION

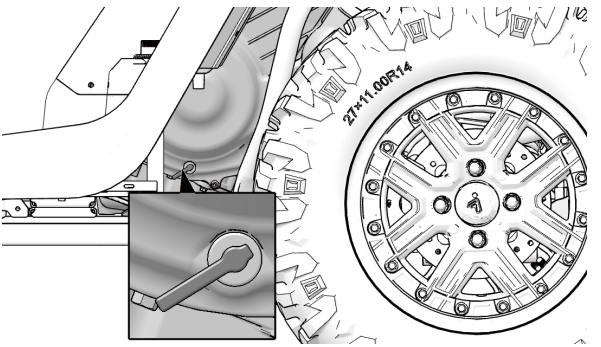
Ensure that the new belt direction corresponds the original belt installation orientation.

- Drive belt installation is basically the reverse of removal.
- Wrap the drive belt around the drive and driven pulley.
- Pull out the kick-out pin from the drive wheel and tighten the driven pulley.
- Install the CVT cover seal ring and tighten the CVT cover.

Tightening torque:	CVT outer cover bolt：10 Nm

CVT DRYING

In some cases, water may get into the CVT system. If this happens, let the CVT system drain before driving.



1. Remove the CVT clutch drain plug.
2. Let the water drain out completely and reinstall the drain plug.
3. Place the transmission in "Park" and set the parking brake.
4. Start the engine.
5. Apply the throttle several times to expel the moisture and air-dry the belt and clutches. Do not hold the throttle wide open for more than 10 seconds.
6. Allow the engine rpm to settle to idle speed, then shift the transmission to low range.
7. Test for belt slippage. If the belt slips, repeat the process.
8. If your vehicle needs service, Segway authorized dealer can help.

COOLANT

Control or maintain engine coolant level through a recovery bottle. The recovery system components are: recovery bottle, radiator, radiator pressure cap and connection hoses.

As coolant operating temperature increases, the expanding (heated) excess coolant is forced out of the engine, through the pressure cap, and into the recovery bottle. When the engine coolant temperature drops, the contracting (cooled) coolant is drawn back out from the bottle, passes through the pressure cap, and enters the radiator.

It is normal for some coolant level to drop on new vehicles because the system is purging itself of trapped air. Check coolant level and add coolant to recovery bottle if required.

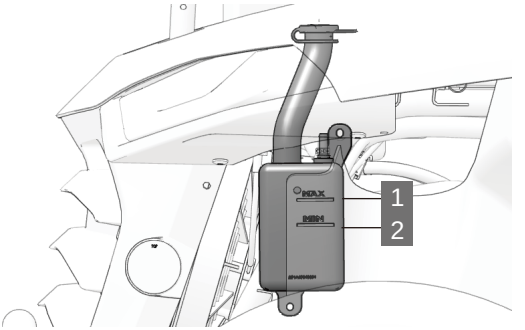
RADIATOR INSPECTION

Check radiator and hoses for leaks or damage. Check the radiator screen and core. The radiator must be kept clean. Clean the radiator cover often when riding in the dirt, remove any deposits that hinder the normal cooling of the radiator.

⚠ CAUTION
Never clean the radiator when hot.

COOLANT LEVEL CHECK / ADD

The recovery bottle is located on the left side of the vehicle.



1 **Maximum level** 2 **Minimum level**

1. Observe the coolant level in the recovery bottle.
2. If the coolant level is low, remove the cap and add coolant. Maintain the coolant level between the minimum and maximum marks on the recovery bottle (when the coolant is cool).
3. Remove the front service cover in the front bonnet.
4. Remove the cap and pour in new coolant. Pay attention to the position of the coolant cap. Do not overfill the maximum level.
5. Reinstall the recovery bottle cap and confirm whether the cap is installed correctly.
6. Reinstall the front service cover.

COOLANT REPLACEMENT

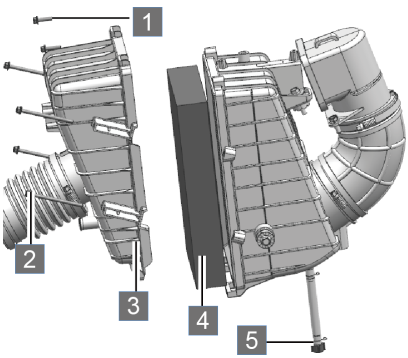
To ensure that the coolant maintains its ability to protect the engine, we recommend that the cooling system be completely emptied every 5 years and new coolant is added. This requires expertise, ask a Segway dealer for replacement.

AIR FILTER

The air filter element in this vehicle is a paper type. The air filter element should be cleaned and replaced in intervals specified Periodic maintenance chart.

First, remove the filter element for inspection. If the filter element is seriously soaked with oil or dust, do not clean it, instead replace it with a new filter element. If there is no oil or heavy dust, put the air filter element with intake side down, knock on the ground and shake off most of the dust. It is better if you have compressed air - you can blow from the filter element side (do not blow from the air intake side), until the dust is blown off.

REPLACING AIR FILTER ELEMENT



1 **Bolt M6x20 (2x)**

2 **Bolt M6x70 (4x)**

3 **Air filter cover**

4 **Air filter element**

5 **Air filter plug**

Air filter is located under the front storage box. When replacing, follow these steps:

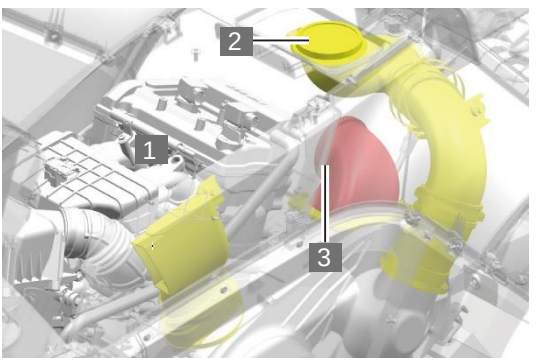
1. Remove front storage box.
2. Remove fixing bolts on the air filter cover.
3. Remove old air filter element.
4. Clean inside of the air filter box. If there is water, remove the air filter plug and drain the water. Then reinstall the plug.
5. Clean the filter element, or install a new one if necessary.
6. Re-install the air filter cover and front storage box.

CVT AIR INTAKE FILTER

The frequency of inspection and cleaning of the CVT air intake filter shall be adjusted according to the driving conditions.

CVT AIR INTAKE FILTER INSPECTION

There are two CVT air inlets, both located under the seat. It is recommended to regularly check the CVT intake filter, according to the following procedure:



1 **Inlet 1** 2 **Inlet 2** 3 **Outlet**

1. Remove the passenger seat and driver's seat.
2. Clean sediments and leaves from the air inlets and outlet.
3. If necessary, clean the filter screens of the CVT inlet and outlet, and replace them with new ones if damaged.
4. Reinstall the seat.

BRAKES

The front and rear brakes are hydraulic disc brakes that are activated by brake pedal and brake lever on the handlebars. Both brakes are self-adjusting. As the brake pads wears, brake fluid level will drop. Also brake system leakage can cause the fluid level to drop.

⚠ WARNING

Brake fluid levels must be checked periodically: overfilling of the brake fluid reservoir may cause brake drag or brake locking, which may result in serious injury or death. Keep brake fluid at the recommended level, do not overfill. Check brake pads and brake disc wear regularly. Worn brake pads or discs should be replaced.

Following inspection is recommended to keep the brake system in good working condition. If the brakes are in heavy use, check them more frequently.

1. Always keep the brake fluid at correct level. Refer to Master cylinder/brake fluid section for details.
2. Check the brake system for leakage.
3. Check whether the brake pedal / brake lever travels too long or feels soft.
4. Check whether the brake pads are worn, damaged or loose. Brake pads must be replaced when the remaining thickness is 1.5 mm.
5. Check the surface and condition of the brake discs. Use the brake cleaner to clean up any grease and adhering dirt. Do not use spray lubricants or other petroleum-based products. If any damage (crack, excessive corrosion, warping) is found, visit Segway Powersports dealer before operation.

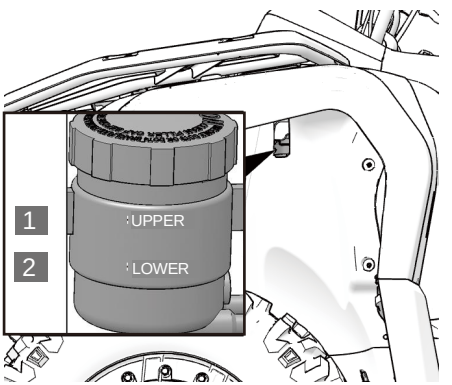
BRAKE FLUID

Recommended brake fluid:

Brake fluid	Maxima DOT4 Brake Fluid

Hydraulic brake systems require no adjustments. Check the brake fluid level frequently. If the level is low, add brake fluid. Brake fluid reservoir is located under the front service cover.

1. Remove the front rack panel and the front service cover. See P. 92 for the removal. Check the brake fluid level in reservoir:



1 **UPPER MARK** 2 **LOWER MARK**

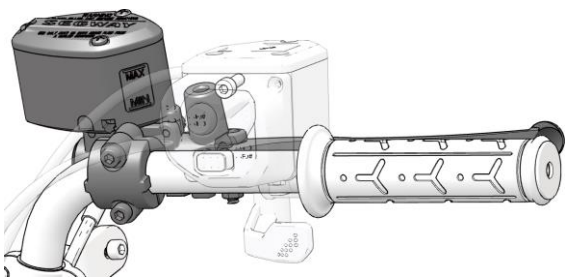
3. Brake fluid level should be between upper and lower marks. If the level is lower, add the recommended brake fluid and re-check the fluid level.
4. Check whether the brake pads are worn.

NOTE

Brake fluid can damage plastic and painted surfaces and should be added with caution. If brake fluid comes into contact with your skin or eyes, flush with plenty of water immediately. If you feel unwell, seek medical advice immediately.

ADDING FRONT BRAKE FLUID

Check whether the front brake fluid level is above the minimum level mark in reservoir on the right handlebar. If the fluid level is below the MIN mark, add brake fluid.



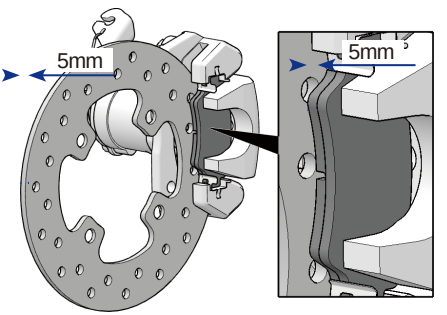
MAX: Upper mark **MIN: Lower mark**

1. Replenish brake fluid.
2. Check whether the brake pads are worn.

BRAKE PADS INSPECTION

Brake pads wear depends on the severity of usage and operating conditions. Brake pads wear faster in wet and muddy conditions. Periodically inspect brake pads for thickness in intervals specified in periodic maintenance chart. If brake pad thickness is 1.00 mm or less, brake pads must be replaced.

Brake pads thickness	New	5.0 mm
	Minimum	1.5 mm
Disc thickness	New	5.0 mm
	Minimum	4.0 mm



TIRES

TIRE PRESSURE

Driving with incorrect tire pressure may result in:

- Reduced fuel efficiency
- Reduced driving comfort and shortened tire life
- Reduced safety

When checking tire pressure, follow these pressure recommendations:

Recommended tire pressure	Front	Rear
	48.3 kPa	48.3 kPa

- Check tire pressure only after the tires have cooled down, if the vehicle has been parked for at least 3 hours, or has not been driven more than 1,5 km. Checking at this conditions can get an accurate reading of the cold tire pressure.
- Do use low-pressure ATV tires pressure gauges. Tire appearance can sometimes be misleading. Even a few kPa less air in a tire can affect driving and handling performance.
- Don't reduce the tire pressure after driving. Increased tire pressure after driving is normal.

TREAD DEPTH

Observe the tire shoulder for the Tread Wear Indicator "T.W.I", with triangle symbol. When the tread block wears to the wear limit mark, exchange the tire. Otherwise the tire can burst underway due to insufficient strength.

Tread wear indicator “T.W.I”:

WHEN TO CHANGE A TIRE

- If the tire is damaged, has cuts, delaminations, deep cracks or is bulging.
- Replace tires when tread depth is worn to the T.W.I limit.
- If the tire has air leak which cannot be normally repaired due to the size or position of puncture, or has other damage. If you are not sure, consult your dealer.

WHEEL REMOVAL

1. Stop the engine.
2. Put the shift lever in the "P" position.
3. Lock the parking brake.
4. Loosen the four wheel nuts slightly, do not remove them yet.
5. Lift the side of the vehicle by placing a suitable jack or stand under the footrest frame.
6. Loosen and remove the 4 wheel nuts.
7. Remove the wheel.

WHEEL INSTALLATION

1. Note the rotation arrows and place the wheel into position. Install 4 wheel nuts onto the wheel studs in sequence as on previous page.
2. Finger-tight the nuts, then lower the vehicle to the ground.
3. Tighten wheel nuts with a torque wrench to the specified torque.

Torque specification:

Tightening torque:	**Wheel nuts: 100~120 Nm**

⚠ CAUTION

Loose nuts may cause the tire to fall off during operation which may cause an accident or overturn. 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 bolt or wheels. In addition, lubricating oil or grease can cause wheel nuts to become loose and wheels may fall off, which can lead to accidents and serious injuries. Remove any lubricating oil or grease from wheel bolts or wheel nuts.

⚠ WARNING

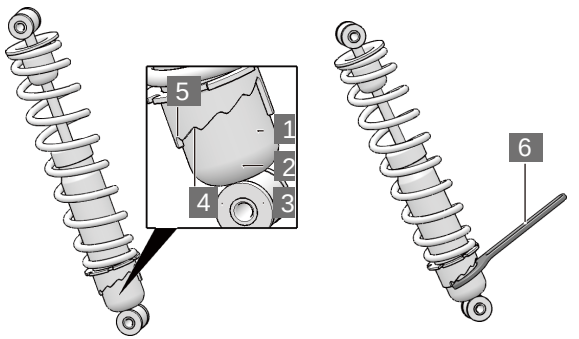
Do not use tires of other sizes than recommended in this manual or in vehicle documents.
This could cause the vehicle to lose control.

	Model	Front	Rear
Tire size	SGW1000-A3	27×9.00-14	27×11.00-14
		27×9.00R14	27×11.00R14
	SGW1000-A7	27×9.00-14	27×9.00-14
		27×9.00R14	27×9.00R14
		30×10.00R14	30×10.00R14

SUSPENSION ADJUSTMENT

Different models / variants are equipped with different types of shock absorbers. Adjust shock absorbers according the actual type fitted to your Segway model.

SPRING PRELOAD



1. There are 5 spring preload positions which can be used for different loads or driving conditions.

Position 1 : For light load or flat terrain.

Position 2 : Standard position.

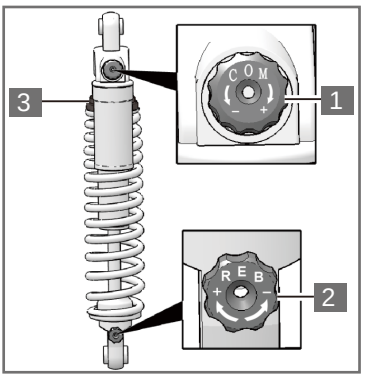
Position 3 ~ 5 : For high loads and heavy cargo.

2. Use hook wrench 6 to adjust the spring preload.

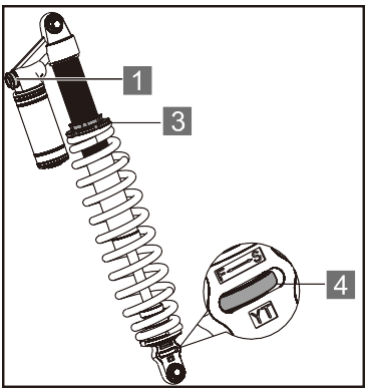
⚠ CAUTION

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

ADJUSTABLE SHOCK ABSORBER



OR



1 Compression damping adjustment

- Rotate the upper compression damping adjuster by hand. Increase the compression damping by turning the adjuster clockwise; decrease the compression damping by turning the adjuster counterclockwise.
- Compression damping adjuster has 7 positions; factory standard setting is 4th position.

2 Rebound damping adjustment

- Rotate the lower rebound damping adjuster by hand. Increase the rebound damping clockwise, decrease it counterclockwise.
- Rebound damping adjuster has 7 positions; factory standard setting is 4th position.

3 Spring preload adjusting. Use hook wrench to adjust the spring preload.

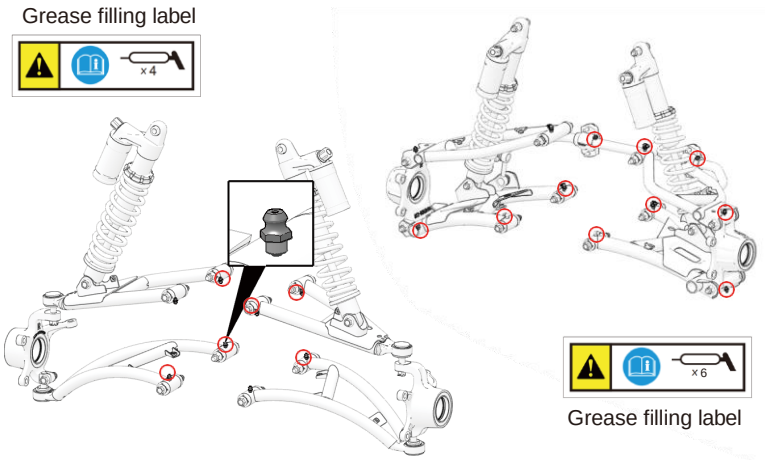
- Increase the spring preload by turning adjusting ring downward.
- Decrease the spring preload by turning adjusting ring upward.

4 Rebound damping adjustment

- Increase the rebound damping by turning in direction “S”.
- Decrease the rebound damping by turning in direction “F”.

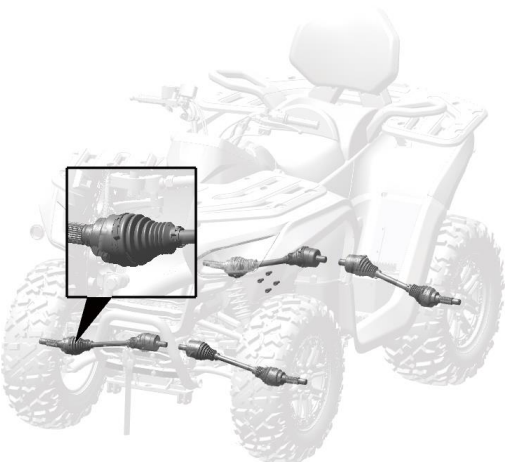
SUSPENSION LUBRICATION

Your model has grease nipples fitted on the rear suspension and stabilizer bar.



These parts need to be thoroughly lubricated. Use suitable grease and lubricate them in intervals specified in periodic maintenance chart. Sufficient lubrication can reduce wear and increase service life of these parts.

FRONT / REAR AXLE BOOTS



Inspect the front and rear drive shaft axle boots for cuts, cracks, tears, damage or grease leakage. If needed, contact your Segway dealer for service.

LIGHTS

⚠ CAUTION

Poor lighting can result in reduced visibility when driving. If the headlights and taillights get dirty, clean them frequently. To ensure optimum visibility, make sure the headlights are properly adjusted.

LED HEADLIGHT / TAILLIGHT REPLACEMENT

LED lights consist of multiple LED diodes that emit light. If some of the LED diodes are burned out, the light cannot be replaced. Take the vehicle to the dealer for replacement of the whole light as a part.

Note:
It doesn't mean malfunction if condensed water appears inside the headlight lens temporarily. In following cases contact your dealer for more information:

- There are big beads of water inside the lens
- Condensation of water inside the headlight.

HIGH BEAM ADJUSTMENT

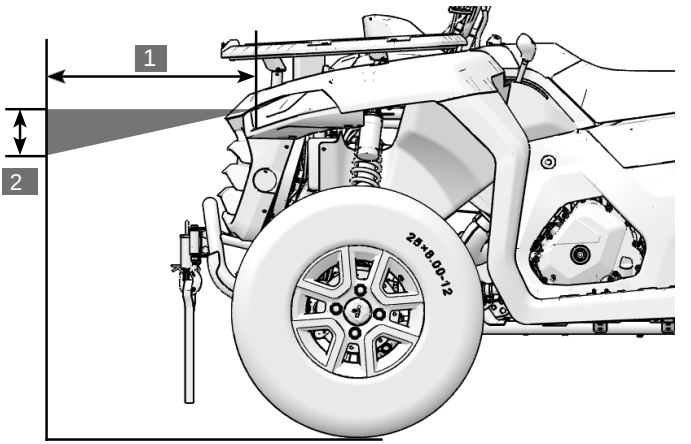
The headlight beam can be adjusted up and down, and right or left. Use following procedure to make adjustments.

⚠ CAUTION

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

It is best to let Segway Powersports dealer to adjust the headlights, if conditions permit.

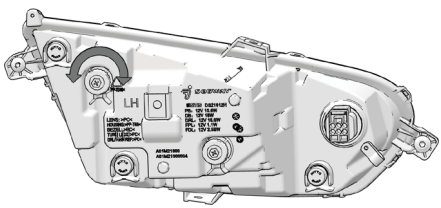
1. Place the vehicle on a level ground with headlights approximately 10 m from the wall.



2. Measure the distance from the floor to the center of the headlights and make mark on the wall at the same height.
3. Start the engine and switch the headlights to a high beam.
4. Watch the headlight beam on the wall. The most intense part of the beam should be 5 cm below the mark on the wall. Measure the headlight beam with the weight of the driver on the front seat.

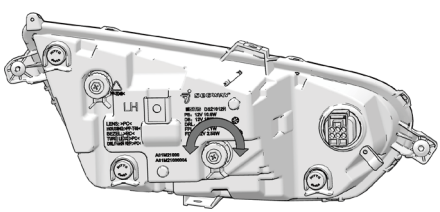
Headlight beam height adjustment

- To raise the headlight beam, turn the headlight adjusting screw
  counterclockwise.
- To lower the headlight beam, turn the headlight adjusting screw clockwise.



Headlight beam side adjustment

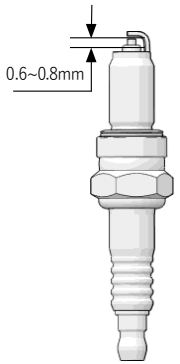
Headlight beam can be adjusted slightly to the left or right.



- To turn the headlight beam to the left, turn the headlight adjusting screw counterclockwise.
- To turn the headlight beam to the right, turn the headlight adjusting screw clockwise.

SPARK PLUGS

Refer to the recommended spark plug type and spark plug gap specifications. Tighten spark plugs to specifications.



⚠ CAUTION

Using unrecommended spark plugs can cause serious engine damage.

Always use the recommended spark plugs.

	NGK	Spark Plug Gap	Torque
Spark Plug	B7RTC/ B8RTC	0,6 - 0,8 mm	13 Nm

SPARK PLUGS INSPECTION

Spark plug condition indicates how the engine is running. Check and change the spark plugs in intervals specified in the periodic maintenance chart.

Normal plug

Normal insulator tip is gray, brown, or light brown. There can be some combustion deposits. Electrodes are not eroded or corroded. This indicates that the engine has correct combustion and that spark plugs are proper type and heat range. The tip should not be white. White insulator tip indicates overheating which can be caused by improper spark plugs or incorrect mixture adjustments.

Need to replace

The wet fouled insulator tip is black. A damp oil film covers the firing end. There may be some carbon deposits on the entire head. Generally, electrodes are not worn out. General cause of fouling can be excessive oil, using of unsuitable engine oil, or poor fuel quality.

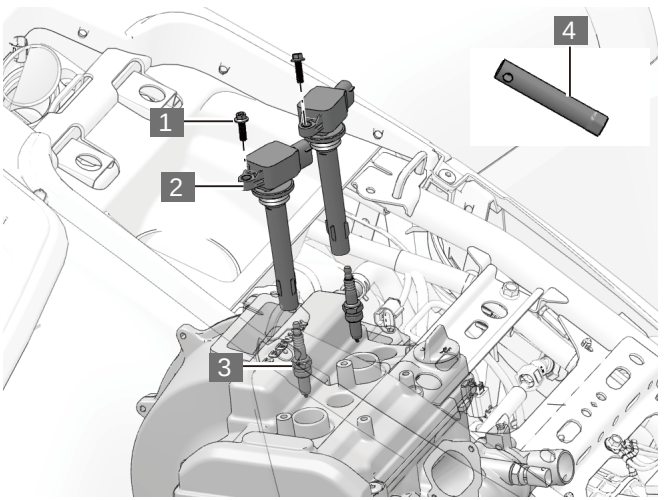
SPARK PLUGS REMOVAL / INSTALLATION

⚠ CAUTION

Wear protective gloves when removing the spark plugs for inspection. A hot exhaust system and engine can cause burns.

NOTE

When replacing, all spark plugs must be replaced.



1 Bolt 2 Ignition coil 3 Spark plug 4 Spark plug wrench

Spark plugs are located under the seat.

1. Disconnect the ignition coil harness and remove the ignition coil fixing bolts.
2. Remove the ignition coil, spark plugs are located under the ignition coil.
3. Use the spark plugs wrench from the tool kit to remove the spark plugs.
4. Remove the spark plugs that need to be replaced and install a new spark plugs.
5. Spark plug installation is basically the reverse of spark plug removal.

Tightening torque of spark plugs: 13 Nm

Tightening torque for M6 bolts: 10 Nm

SPARK ARRESTOR

Spark arrestor prevents random sparks from entering other vehicle s parts. Failure to heed following warnings may result in serious injury or death. Regular maintenance can prevent carbon accumulation, poor spark arrestor maintenance will reduce the engine performance.

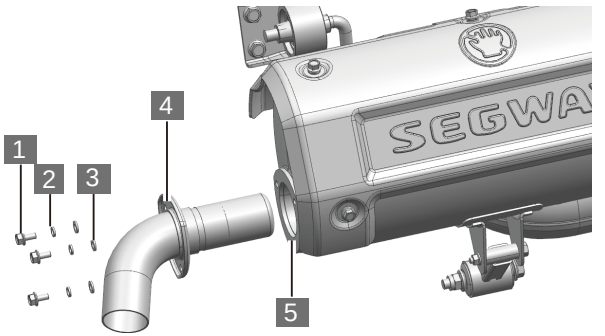
⚠ WARNING

Make sure the exhaust pipes are cool and the engine has stopped running. Let pipes completely cool down to avoid getting burned.

To reduce fire hazard, ensure that there are no combustible materials nearby when removing spark plugs.

Safety glasses are recommended for this procedure.

Exhaust pipe must be periodically cleaned of accumulated carbon.



1 Bolt M6 x16 (3x) 2 Spring washer (3x) 3 Flat washer (3x)

4 Spark arrestor 5 Gasket

Let the exhaust cool down completely to avoid getting burned.

1. Remove three M6×16 bolts, spring washers, and flat washers.
2. Clean spark arrestor with compressed air. If needed, use a wire brush to remove all deposits. Spark arrestor should be cleaned every 100 hours of service.
3. Reinstall the muffler spark arrestor and bolts.

NOTE

If the spark arrestor gasket (5) or mesh (4) is damaged, replace it with a new parts, which must be supplied by Segway.

ELECTRONIC POWER STEERING (EPS)

When the key is turned to the "ON" position, the EPS system is activated. When the engine is started, the electronic power steering starts to work.

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

NOTE

When the key is turned to the "ON" position, the EPS warning indicator lights up briefly. Refer to Page 42.

If the EPS warning indicator light continues to lit after the engine is started, it means that the EPS system has failure. Contact your Segway Powersports dealer.

BATTERY

This ATV is equipped with a sealed MF battery, which requires little maintenance. It is not required to check the electrolyte or to add distilled water to the battery. Due to natural discharge and power consumption of some electrical equipment, battery will discharge gradually even when the vehicle is not in use. If the vehicle was parked for a long time, the battery may discharge and may not be able to start the engine. Charge the battery every 30 days. This will maintain the battery life.

⚠ WARNING

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

- **Do not smoke or light matches near 12V battery.**
- **Avoid electrolyte contact with 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 space. Do not charge 12V battery in a poorly ventilated garage or enclosed room.

BATTERY REMOVAL

NOTE

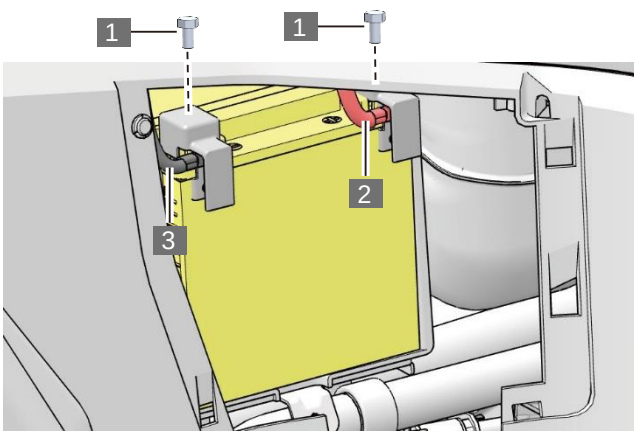
If the electrolyte spills, immediately wash it off with a contact cleaner to prevent damage to the vehicle.

Battery is located above the right floorboard. Power off the vehicle before removing the battery.

1. Remove the battery service panel screws.
2. Remove the battery pull strap.

⚠ CAUTION

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



1 **Battery positive and negative terminal bolts (2x)**

2 **Battery positive cable** 3 **Battery negative cable**

3. Pull both terminal rubber covers off.
4. Remove the battery negative terminal bolt and disconnect the black (negative) battery cable.
5. Remove the battery positive terminal bolt and disconnect the red (positive) battery cable.
6. Remove the battery from the ATV.

BATTERY INSTALLATION

⚠ CAUTION

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

1. Clean battery cables and terminals with a soft wire brush and contact cleaner, such as Maxima Electrical Contact / Brake Cleaner. Finally coat the terminals and bolts with dielectric grease.
2. Insert the battery into the vehicle.
3. Connect and tighten positive (red) cable to battery positive terminal and return the terminal rubber cover into place.
4. Connect and tighten negative (black) cable to battery negative terminal and return the insulated rubber cover into place.
5. Fix the battery with the battery pull strap.
6. Verify that the battery cables are properly wired.

BATTERY CHARGING

NOTE

When charging, the hydrogen, produced by the 12V battery, is combustible and explosive gas. Therefore please follow these precautions before charging:

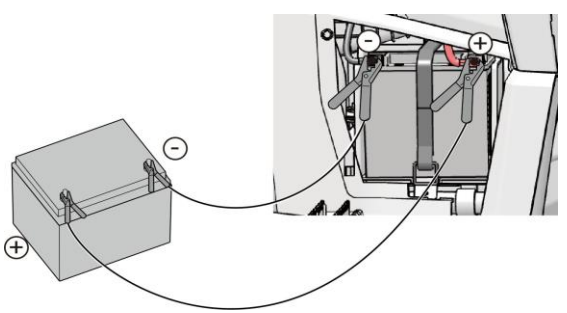
If you charge battery that is installed in the vehicle, be sure to disconnect the negative cable.

Make sure the battery charger is off when connecting and disconnecting the charger cables to 12V battery.

Only charge slowly (5A or less). If you charge quickly, battery may explode.

JUMP-STARTING THE VEHICLE

1. Connect positive clamp of the jumper cable to the positive (+) terminal of the flat battery in your vehicle.
2. Connect the other clamp of the positive jumper cable to the positive (+) terminal in another vehicle.
3. Connect the negative clamp of the jumper cable to the negative (-) battery terminal of another vehicle.
4. Connect the clamp on the other end of the negative jumper cable to the negative (-) battery terminal in your vehicle, or to unpainted part of the frame.



FUSE

All circuits on this ATV are protected with fuses which protect electrical systems from damage by short-circuit or overload. If there is any electrical system failure, always check the fuses first. You can consider electrical faults.

If the fuse is blown, replace it with a fuse of the same type and rating. Check all other fuses for possible cause. Replace all blown fuses and check the electrical system. All fuses are located in the fuse box. There are some spare fuses in the fuse box. In the event of a system failure, see "Fuse/relay ratings and location" for details.

NOTE

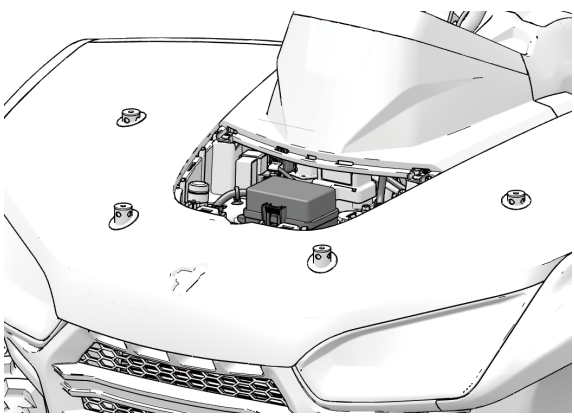
- **Always replace a blown fuse with the fuse of the same type and rating.**
- **Do not replace the fuse with anything else. Never use wires instead of the proper fuses - even as a temporary replacement this is strictly prohibited.**
- **Do not modify fuses or fuse boxes.**
- **If the fuse immediately blows again, contact your dealer.**

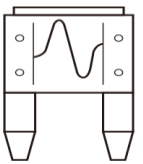
FUSE BOX

Fuse box is located under the front service cover. For front service cover removal see Page 90.

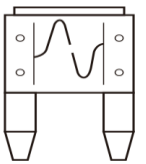
Remove the front rack cover, and then front service cover. After the front service cover is removed, the fuse box is located at the bottom. Move the locking tabs on the left and right side of the fuse box cover to the outside. Loosen the tabs and open the fuse box.

NOTE
When installing the fuse box cover, pay attention to the orientation of the cover and locking tabs.





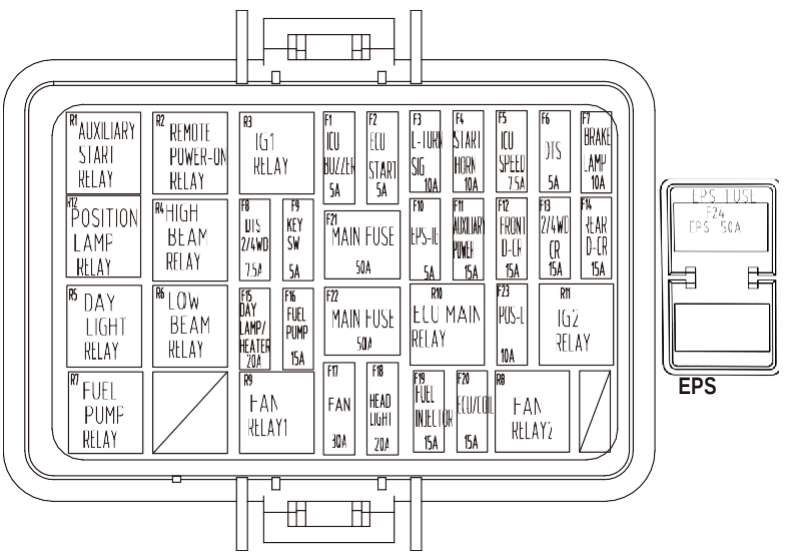
Normal fuse



Blown fuse

FUSE / RELAY RATINGS AND LOCATIONS

On the top of the fuse box cover there is a fuse location label. Refer to this scheme when finding a fuse for replacement.



Rated amperage of fuse/relay and location

No.	Fuse	Amps	No.	Fuse	Amps
F1	Display/Buzzer	5A	F19	Fuel Injector/Ignition Coil/ Oxygen Sensor	15A
F2	ECU Start Relay	5A	F20	ECU/Coil	15A
F3	Turn Signal	10A	F21	Main Fuse	50A
F4	Start /Horn	15A	F22	Main Fuse	50A
F5	Display/Vehicle Speed Sensor	7.5A	F23	Position light Fuse	10A
F6	DTS	5A	F24	EPS Fuse	50A
F7	Brake Light	10A		Relay	
F8	DTS/2-4WD Module	7.5A	R1	Auxiliary Start Relay	12V 20A
F9	Power Switch	5A	R2	DTS Relay	12V 20A
F10	EPS-IG	5A	R3	IG1 Relay	12V 20A
F11	Auxiliary Outlet	15A	R4	High Beam Relay	12V 20A
F12	Front Differential	15A	R5	Daytime Running Light Relay	12V 20A
F13	2WD / 4WD Switching	15A	R6	Low Beam Relay	12V 20A
F14	Rear Differential	15A	R7	Fuel Pump Relay	12V 20A
F15	Daytime Running Light	20A	R8	Cooling Fan Relay 2	12V 20A
F16	Fuel Pump	15A	R9	Cooling Fan Relay 1	12V 20A
F17	Cooling Fan	30A	R10	ECU Main Relay	12V 20A
F18	High/Low Beam	20A	R11	IG2 Relay	12V 20A

NOTE

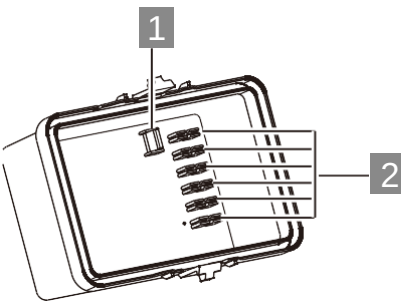
Due to the continuous improvement of Segway products, fuses may vary from your vehicle. Always refer to the fuse positions and specifications on the fuse box in your vehicle.

FUSE REPLACEMENT

Before checking / replacing the fuse, turn ignition switch to (OFF) to prevent accidental short circuit.

To check or replace the fuse, pull out the blown fuse with a fuse puller in the box cover. This tool will help you take out the fuse.

Fuse box cover is also fitted with a spare fuses which can be replaced.



1 Fuse puller 2 Spare fuse

NOTE

If the correct fuse suitable for the circuit is not available, install next lower rated fuse.

APPEARANCE AND CARE

VEHICLE WASHING

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

1. Cover or plug the exhaust prior to washing your vehicle.
2. Fill a bucket with water. Mix 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 mild cleaner/ degreaser to remove the grime.
4. After washing, rinse your vehicle thoroughly with plenty of clean water to remove residues. Detergent residues 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. After washing, ride your vehicle at a slow speed and apply the brakes several times. This will help dry the brakes and restore normal braking performance.

CLEANING TIPS

Avoid using automotive products which may scratch your vehicle. Clean and polish your vehicle regularly with a clean cloth and mat. Old or reused cloths and mats can contain dirt particles that can scratch the finish.

VEHICLE STORAGE

When the vehicle is not used for a longer time, it should be appropriately stored. The vehicle should be serviced and thoroughly cleaned prior storing. If you do not have indoor storage, covered outdoor storage is recommended.

TRANSPORTING THE ATV

Follow these steps when transporting the vehicle:

1. Stop the engine.
2. Place the transmission in PARK.
3. Lock the parking brake.
4. Secure the fuel cap, oil cap and seats.
5. Always tie the frame of the ATV to the transporting unit securely with suitable tie straps. Do not attach tie straps to the front A-arm bolt pockets, racks or handlebars.
6. Remove the key to prevent loss during transporting.

SPECIFICATIONS

TECHNICAL PARAMETERS OF VEHICLE

Item	Specifications	
	SGW1000F-A3	SGW1000F-A7
Overall length	2412 mm	2429 mm
Overall width	1256 mm	1489 mm
Overall height	1452 mm	1492 mm
Wheel base	1455 mm	
Ground clearance	275 mm	275 mm (27" tires) 320 mm (30" tires)
Turning diameter	8500 mm	
Curb weight	518 kg	549 kg
Front rack load	40 kg	
Rear rack load	60 kg	
Maximum unbraked towing weight	450 kg	
Engine model	293MY-2	
Engine type	Four stroke, twin cylinder, water cooled, DOHC	
Bore × stroke	93 × 73.6 mm	
Engine displacement	999.99 cm^3	
Compression ratio	10.9 : 1	
Idle speed	1450 ± 145 r/min	
Maximum power	71 kW @ 8000 /min	

Item	Specifications	
	SGW1000F-A3	SGW1000F-A7
Maximum torque	88 Nm @ 7500 /min	
Starting way	Electric start	
Lubrication system	Wet Sump	
Engine oil type	SAE 5W-40 SN or higher	
Engine oil capacity	2200 ml	
Front axle gear oil	SAE 80W-90 GL-5	
capacity	310 ml	
Rear axle gear oil	SAE 80W-90 GL-5	
capacity	1200 ml	
Air filter	Paper filter element	
Fuel tank type	Barrier type plastic fuel tank	
Fuel tank capacity	23 L	
Fuel type	Unleaded petrol, 95 octane (E10)	
Spark plugs type	NGK B7RTC / B8RTC	
Spark plugs clearance	0.6~0.8 mm	
Transmission	CVT clutch, H/L/N/R/P	
Variable speed ratio	0.717~2.976	
L Transmission ratio	13.192~54.755	
H Transmission ratio	8.802~36.534	
Reverse gear ratio	11.515~47.794	

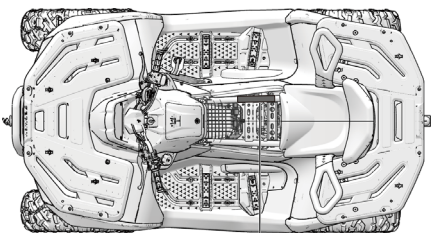
Item	Specifications				
	SGW1000F-A3		SGW1000F-A7		
Tire type	Tubeless				
Front tires	27×9.00-14	27×9.00 R14	27×9.0 - 14	27× 9.00R14	30× 10.00R14
Rear tires	27×11.00-14	27×11.00 R14	27×9.00-14	27× 9.00R14	30× 10.00R14
Front tires pressure	48.3 kPa				
Rear tires pressure	48.3 kPa				
Brake type	Disc brakes				
Main brake	Foot-Activated Hydraulic Disc				
Front brake	Hand-Controlled Hydraulic Disc				
Brake fluid type	DOT4				
Front suspension	Double-wishbone independent suspension				
Rear suspension	Double-wishbone independent suspension				
Front shock absorber	Hydraulic Shock / Hydraulic Shock with adjustable compression and rebound damping / spring preload (depending on equipment)				
Rear shock absorber	Hydraulic Shock / Hydraulic Shock with adjustable compression and rebound damping / spring preload (depending on equipment)				
Front suspension travel	185 mm		173 mm		
Rear suspension travel	210 mm		210 mm		
Ignition	ECU				
Alternator Output	980W @ 5500 /min		680W @ 5500 /min		
Battery	12V 32Ah, Maintenance Free				

Item		SGW1000F-A3	SGW1000F-A7
Headlamp	Headlights	LED	
	Daytime running lights	LED	
	Turn signals	LED	
	Front Position Lights	LED	
Rear taillights - Position lights		LED	
Rear taillights - Brake lights		LED	
Turn signals		LED	

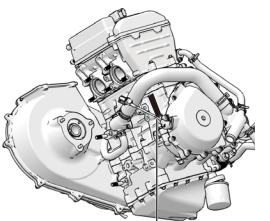
VEHICLE IDENTIFICATION NUMBER

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

Vehicle identification number is located on the frame cross member under the seat.



Vehicle Identification Number



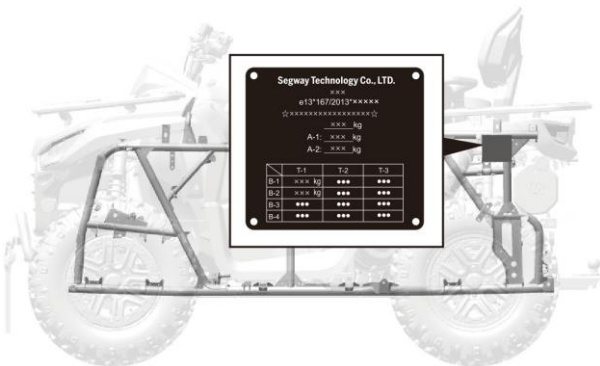
Engine Serial Number

VIN number	

Engine serial number	

IDENTIFICATION PLATE

Identification plate is located on the frame near right rear wheel. Identification plate contains basic vehicle information including VIN number. VIN number is required when the vehicle is activated for the first time.



TROUBLESHOOTING

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

DRIVE BELT WEAR / BURN

Possible Cause	Solution
Driving onto a pickup or trailer in High range (“H”)	Shift transmission to Low range (“L”) when loading the ATV 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 speed (at approx. 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 at low ambient temperatures	Warm the engine before driving. The belt will become more flexible and prevent belt burning.
Slow / hesitating clutch engagement	Use the throttle quickly and effectively for efficient clutch engagement.
Towing/pushing at low RPM / low speed	Use Low range only
Utility use/snow plowing, mowing 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 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 to engage clutch. **WARNING:** **Excessive throttle may cause loss of control and vehicle overturn.**
Belt slippage from water or snow that entered into the CVT system	Remove the CVT cover and drain the water from CVT system.
Clutch malfunction	Contact your dealer for clutch inspection.

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 the battery
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	Contact your dealer for service
Incorrect spark plug gap or heat range	Set gap to specs or replace plug

ENGINE STOPS OR LOSES POWER

Possible Cause	Solution
Overheated engine	Clean radiator screen and core. Clean engine exterior. Contact your dealer for service.

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 has failure	Replace
Old or non-recommended fuel	Replace with new fuel
Fouled or defective spark plug	Inspect plug, replace if necessary
No spark to spark plug	Inspect plug, verify stop switch is on
Crankcase filled with water or fuel	Immediately contact your dealer for service
Clogged fuel injector	Contact your dealer for service
Low battery voltage	Recharge battery
Mechanical failure	Contact your dealer for service

ENGINE BACKFIRES

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

ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES

Possible Cause	Solution
Fouled or defective spark plug	Inspect, clean and/or replace spark plug
Worn or defective spark plug wires	Contact your dealer for service
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

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	Contact your dealer for service
Electronic throttle control malfunction	Contact your dealer for service
Other mechanical failure	Contact your dealer for service
Possible Lean or Rich Fuel Mixture Cause	Contact your dealer for service
Low or contaminated fuel	Add or change fuel and clean the fuel system
Low octane fuel	Replace with recommended fuel
Clogged fuel filter	Contact your dealer for service
Fuel is too much octane	Replace with recommended 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
Fouled or defective spark plugs	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	Contact your dealer for service
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
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	Contact your dealer for service
Electronic throttle control malfunction	Contact your dealer for service
Other mechanical failure	Contact your dealer for service

DIAGNOSTIC CODES

System	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

System	Failure Code	Failure Description
ECU	P0201	Injector Circuit/Open – Cylinder 1
	P0265	Cylinder 2 Injector Circuit High
	P0264	Cylinder 2 Injector Circuit Low
	P0202	Injector Circuit/Open – Cylinder 2
	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
	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
	P1568	Idle Speed Contr.Throttle Pos. mechanical 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
	P0606	ECM/PCM Processor
	P0032	O2 Sensor Heater Control Circuit High Bank 1 Sensor 1

System	Failure Code	Failure Description
ECU	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
	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

System	Failure Code	Failure Description
ECU	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
	P2301	Ignition Coil “D” Primary Control Circuit High
	P2304	Ignition Coil “B” Primary Control Circuit High
	P2300	Ignition Coil “D” Primary Control Circuit Low
	P2303	Ignition Coil “B” Primary Control Circuit Low
	P0133	O2 Sensor Circ.,Bank1-Sensor1 Slow Response
	P0153	O2 Sensor Circ.,Bank1-Sensor2Slow Response
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
	E0011	Over electric current
	E0012	Abnormal busbar electric current
	E0013	CAN communication abnormal (Output abnormal)
	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

System	Failure Code	Failure Description
EPS	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

EMISSION CONTROL SYSTEM

SOURCE OF EXHAUST EMISSIONS

Combustion process produces carbon monoxides (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 a photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but is toxic.

EXHAUST EMISSION CONTROL SYSTEM

The exhaust emission control system includes a PGM-F 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.

DECLARATION OF DRIVER'S EXPOSURE TO NOISE LEVEL (SGW1000F-A3)

The undersigned: Zhu kun, 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-A3

1.2.1. Variant(s): SGW1000F-A3

1.2.2. Version(s): A, B

1.2.3. Commercial name(s) (if available):

Segway AT10, Segway Snarler AT10, Segway AT10 Standard, Segway AT10 EPS, Segway AT10 Premium, Segway AT10 S, Segway AT10 EPS, Segway AT10 P, Segway AT10 W Standard, Segway AT10 W Premium

1.3. Category, subcategory and speed index of the vehicle:

Variant/Version: SGW1000F-A3/A: T3a

Variant/Version: SGW1000F-A3/B: T3b

The Driver's exposure to noise level result is

Variant/Version: SGW1000F-A3/A: 85.9 dB(A),

Variant/Version: SGW1000F-A3/B: 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: 24/9/2024

Signature: zhukun

Name and position in the company: Zhu kun, General Manager

DECLARATION OF VIBRATION DECLARATION (SGW1000F-A3)

The undersigned: Zhu kun, 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-A3
1.5.1. Variant(s): SGW1000F-A3
1.5.2. Version(s): A, B
1.5.3. Commercial name(s) (if available):
Segway AT10, Segway Snarler AT10, Segway AT10 Standard, Segway AT10 EPS, Segway AT10 Premium, Segway AT10 S, Segway AT10 EPS, Segway AT10 P, Segway AT10 W Standard, Segway AT10 W Premium
1.6. Category, subcategory and speed index of the vehicle:
Variant/Version: SGW1000F-A3/A: T3a
Variant/Version: SGW1000F-A3/B: T3b

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

Driver mass		a_{wS} m/s²	a_{wB} m/s²	a_{wS}/a_{wb}	Requirement
59±1kg	Test run 1	0.56	1.49		Deviation<10% between test run 1/2 and Arithmetic mean, a_{wS}<1.25 m/s²
	Test run 2	0.57	1.50		
	Arithmetic mean	0.57	1.50	0.38	
98±5kg	Test run 1	0.57	1.57		
	Test run 2	0.57	1.58		
	Arithmetic mean	0.57	1.58	0.36	

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

Place: Changzhou, China Date: 24/9/2024

Signature: 

Name and position in the company: Zhu kun, General Manager

DECLARATION OF DRIVER'S EXPOSURE TO NOISE LEVEL (SGW1000F-A7)

The undersigned: Zhu kun, 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-A7

1.2.1. Variant(s): SGW1000F-A7

1.2.2. Version(s): A, B

1.2.3. Commercial name(s) (if available):

Segway AT10, Segway Snarler AT10, Segway AT10 Standard, Segway AT10 EPS, Segway AT10 Premium, Segway AT10 S, Segway AT10 EPS, Segway AT10 P, Segway AT10 W Standard, Segway AT10 W Premium

1.3. Category, subcategory and speed index of the vehicle:

Variant/Version: SGW1000F-A7/A: T3a

Variant/Version: SGW1000F-A7/B: T3b

The Driver's exposure to noise level result is

Variant/Version: SGW1000F-A7/A: 85.8 dB(A),

Variant/Version: SGW1000F-A7/B: 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: 24/9/2024

Signature: zhukun

Name and position in the company: Zhu kun, General Manager

DECLARATION OF VIBRATION DECLARATION (SGW1000F-A7)

The undersigned: Zhu kun, 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-A7
1.5.1. Variant(s): SGW1000F-A7
1.5.2. Version(s): A, B
1.5.3. Commercial name(s) (if available):
Segway AT10, Segway Snarler AT10, Segway AT10 Standard, Segway AT10 EPS, Segway AT10 Premium, Segway AT10 S, Segway AT10 EPS, Segway AT10 P, Segway AT10 W Standard, Segway AT10 W Premium
1.6. Category, subcategory and speed index of the vehicle:
Variant/Version: SGW1000F-A7/A: T3a
Variant/Version: SGW1000F-A7/B: T3b

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	0.56	1.49		Deviation<10% between test run 1/2 and Arithmetic mean, a_{wS} <1.25 m/s^2
	Test run 2	0.57	1.50		
	Arithmetic mean	0.57	1.50	0.38	
98±5kg	Test run 1	0.57	1.57		
	Test run 2	0.57	1.58		
	Arithmetic mean	0.57	1.58	0.36	

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

Place: Changzhou, China Date: 24/9/2024

Signature: zhukun

Name and position in the company: Zhu kun, General Manager

SEGWAY TECHNOLOGY CO., LTD.

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