

# **Roadstar**

## *User Manual*



**DAYMAK**

# ***About Daymak***

Daymak is one of Canada's largest Alternative Vehicle providers. We design, engineer, manufacture, import and repair everything from recreational dirt bikes, go-karts and electric golf cars to alternative transportation solutions such as e-bikes and gas scooters.

Our electric bicycles represent an energy-efficient and eco-friendly alternative for people who need to get around the city. They greatly increase the practicality of bicycle transportation in urban centres. Costing only a few cents to charge, an e-bike can make city life more convenient and much less expensive.

While there are many new Green technologies that are still in their infancy, electric bicycles have been developing over the last 40 years or more. E-bike technology has been dramatically refined since the introduction of the first custom-conversion bicycles. Today, electric bicycles are a supremely reliable and affordable means of transportation.

Daymak is constantly developing new eco-friendly alternative transportation strategies, led by its own Research and Development department in Toronto, Canada. We are always improving our products. Our innovative in-house engineering and quality testing provide customers with many new kinds of reliable, eco-friendly vehicles, designed to help change the lives of our customers and the world.

Daymak warranties, services, and stocks parts for everything it sells.

We support our products.

Please feel free to visit our website. You'll find the latest in cool transportation solutions, support for the products you've purchased and contact information.



# ***Safety / Riding Precautions***

For your safety, please ensure the following:

- check both right and left brake levers, and that the brake sensors shut off power to the motor
- check the air pressure of both front and rear tires. The correct P.S.I. is listed on each tire.
- check both left and right turn signals and taillights work properly before riding
- check and make sure that your mirrors are tightened and allow for maximum visibility
- make sure that your battery power is sufficient before you go out to ride
- additional passengers should always wear a helmet
- periodically charge the unit when not in use for long periods of time
- if you bring your charger, avoid shaking / rattling charger while riding
- do not over charge the battery by leaving the charger in the charging port. Once the battery is fully charged remove the charger immediately.
- do not try to operate the unit while charging
- do not let anyone under the age of 16 years old operate this vehicle
- do not make sharp / abrupt turns at high speeds to avoid tipping
- do not operate under the influence of any use of drugs or alcohol
- do not completely submerge the unit in water
- do not operate in harsh weather conditions
- observe all traffic rules, and do not operate in areas where motorized vehicles are not allowed.

For any questions or concerns please call  
1-800-649-9320 or visit [www.daymak.com](http://www.daymak.com)



# ***Introduction***

## ***E-Scooters***

Riding an electric scooter is a great way to hop around town conveniently and cheaply. E- Bikes represent a natural progression in the development of urban transportation.

Using only small amounts of electricity, e-scooters have the potential to radically reduce the amount of pollution in our cities. As well, they are very quiet, so they do not add to the high levels of noise pollution which we often take for granted. They are easy, and usually free to park. They are unobtrusive and highly practical additions to the urban landscape.

E-scooters are also inexpensive. They (currently) require no registration, no insurance, no licence and do not incur parking charges. As well, compared to internal combustion engines, the engines in electric vehicles have fewer moving parts and require far less maintenance.

Your Daymak e-scooter is the result of Daymak's years of experience, the highly trained technical skills of our staff and careful, ongoing design work by our engineers. We hope you enjoy using this product and welcome any feedback that you may have.

## ***New Laws***

Most provinces in Canada, most states in the U.S.A, the United Kingdom and many European countries have new laws that permit cyclists to use electric motors to assist the regular operation of bicycles. Please check with your provincial or state government to learn about your local laws.

## ***Liability***

Daymak does not assume any liability for damages, loss of profits, or claims from third parties due to improper use of this product. Daymak does not assume any liability for damages due to problems with the product resulting from service by a third party that is not certified by Daymak.

The information in this guide may be subject to change without notice. For the latest information available, please contact your local Daymak dealer or visit our website.

We have taken all possible measures to ensure the accuracy and completeness of the information in this guide. However, if you do find anything missing, incomplete or wrong, do not hesitate to contact us.



# Scooter Overview

## Roadstar

This diagram illustrates the various parts of your mobility scooter. Please note that many of these parts are not user-serviceable and should be repaired only by trained professionals. This is especially true of the electrical systems and the mechanical components.

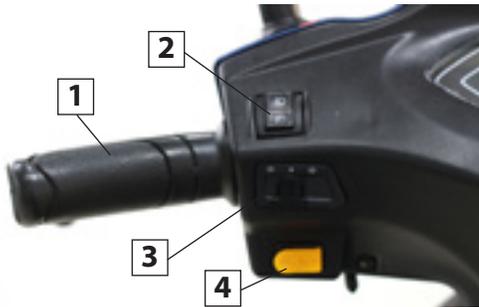


- |                 |                   |
|-----------------|-------------------|
| 1. Throttle     | 7. Charge Port    |
| 2. Brakes       | 8. Rear Tire      |
| 3. Headlight    | 9. Seat           |
| 4. Turn Signals | 10. Carrying Case |
| 5. Front Tire   | 11. Mirrors       |
| 6. Floor Panel  | 12. Parking Brake |

# Instrument Overview

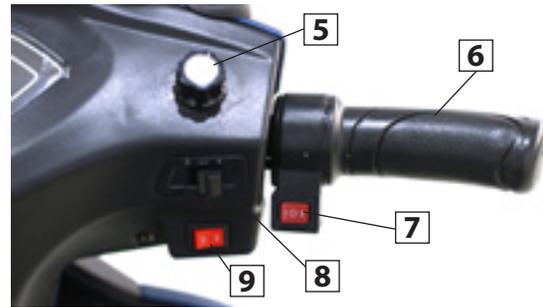
This diagram displays the instrument cluster and function switches needed for operation. Take note of each switch and familiarize yourself with all the functions described below. If any of the switches appear to be malfunctioning, do NOT ride the unit until all functions work as intended.

## Left Side Function Switches



1. Handgrip
2. Headlight High/Low Beam
3. Turn Signal Switch
4. Horn

## Right Side Function Switches



5. Speed Knob (Top Speed)
6. Throttle
7. Speed Switch (Torque)
8. Taillight / Headlight Switch
9. Forward / Reverse Switch

## Function Switches Description

Headlight High / Low Beam - can only be activated when the Headlight (8) is on

Turn Signal Switch - push to the left or right, and press in the middle to turn off signal

Horn - activates the horn

Throttle - turn away from you to accelerate, release and turn towards you to decelerate

Speed Switch - limits to lower torque on 1, moderate torque on 2, and maximum torque on 3

Forward / Reverse Switch - push to the left position for forward, to the right position for reverse

Taillight / Headlight Switch - right position leaves taillight and headlight off, middle position turns on the taillight, and left position turns on the headlight and taillight

## Display Overview



10. Speed Indicator
11. Trip Odometer
12. Battery Indicator

The speedometer provides information about the current state of your e-bike. Before starting on your trip, ensure that the battery and voltage indicator indicates enough power to cover the distance required. When the turn signals and or headlights are activated, icons on the display will also inform you that they are on.



# Smart Key Overview

This diagram displays the smart key and its functions. Take note of what each function does and take care not to damage either the key or the fob, as they are both required to fully unlock your e-scooter. If the key is broken or the fob is malfunctioning, call your nearest Daymak dealer for service troubleshooting.



## Key Fob Functions

1. Lock
2. Unlock
3. Panic
4. Keyless Start

### Key Fob Function Description

**Lock** - press once to arm the alarm on your e-scooter. A confirmation sound will turn on after arming the system. Any load change or significant movement of the e-scooter will cause the alarm to ring when the system is armed.

**Unlock** - press once to disarm the alarm. A confirmation sound will turn on after disarming the system. Note that the keyless start will not engage unless the alarm system is disarmed.

**Panic** - press once to engage the alarm system. A constant, blaring sound will turn on. Press the unlock button to turn off the alarm system.

**Keyless Start** - first make sure to press the unlock button once before engaging. Press the keyless start button twice. The e-scooter's LCD display and systems should turn on and the e-scooter will be functional. If the e-scooter is turned on using keyless start, inserting the key and turning it to the left will not turn off the system. The only way to turn off the e-scooter after engaging the keyless start is to press the unlock button.



# Engaging Parking Brake

Underneath throttle there will be a small bar with a black nub covering it. This is to engage the parking brake. To activate it, first pull the rear brake caliper until it cannot go any further back.

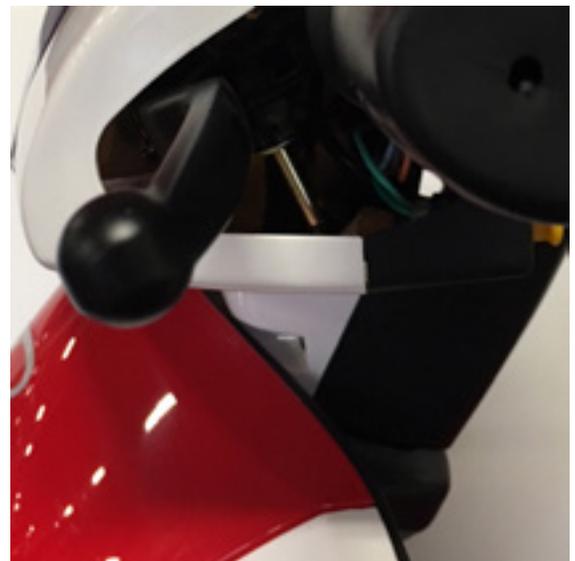
Next, push the black nub up towards the handlebar to engage the rear brake lock.

Release the brake caliper and its set!

To disengage the parking brake, simply grab the rear brake caliper and pull it towards you again and the parking brake will disengage and the bar will pop back out



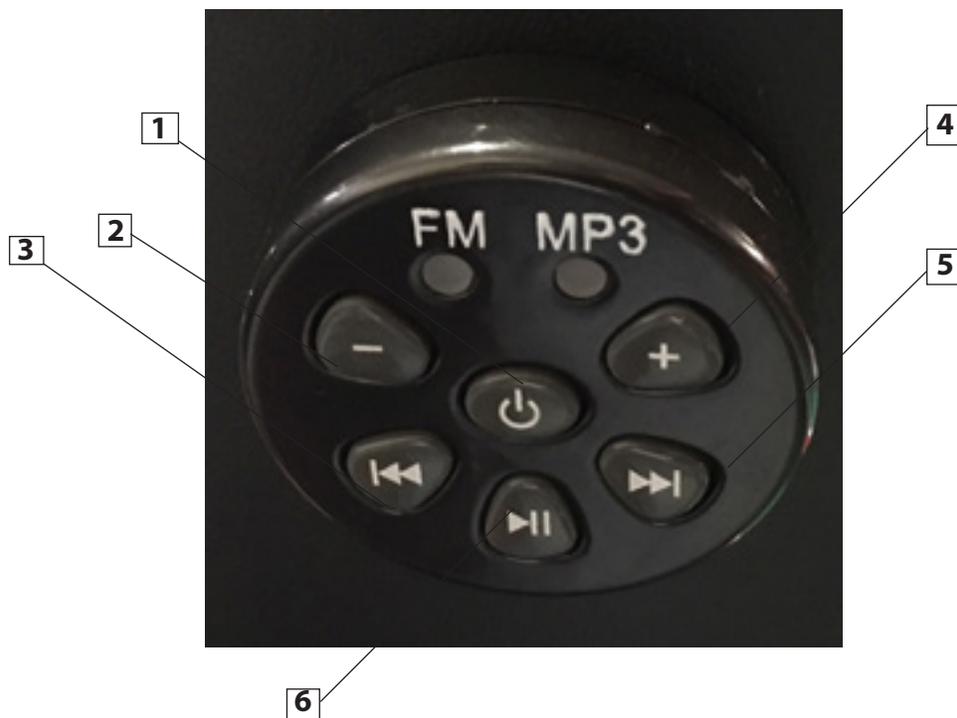
Pull brake handle towards handlebar and push in the black nub seen in the figures above and to the right.



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# FM Radio / MP3 Player

This diagram displays the FM Radio / MP3 Player, located in the center of the dashboard console.



- 1) Power - Press this button once to turn on the sound system and set it to MP3, once more to set it to radio and once more to turn it off.
- 2) Volume Down - Press this button to turn down the volume.
- 3) Seek / Previous Song - In Radio mode, press this to seek a lower frequency station. In MP3 mode it will play the previous song.
- 4) Volume Up - Press this button to turn up the volume.
- 5) Seek / Next Song - In Radio mode, press this to seek a higher frequency station. In MP# mode it will play the next song.
- 6) Play / Pause - Press once to either play music, or pause the music that is currently playing

## ***Connecting your smartphone to your speakers.***

Press the Power button once until the light under MP3 is showing. Go to your smart phone and go to your bluetooth settings. \*Please note bluetooth must be turned on, on your smart phone.\*

Click on the device that is called - **GB - Bluetooth.**

You are now connected to your unit and will be able to play music directly from your smart phone!

# ***Riding Instructions***

This guide assumes that you already know how to ride a standard mobility scooter. Before you try to ride an electric scooter, you should be very familiar with controlling a normal mobility scooter.

## ***Caution***

If you do not have experience operating a mobility scooter, turn down the speed and practice on a wide open area before embarking on a long trip.

## ***Important Notes***

- Obey the Law. Be sure to follow all provincial and city traffic laws. This includes obeying stop signs, checking carefully when turning, and riding defensively.
- Stay Sober. Never ride your scooter while intoxicated. An e-scooter is capable of relatively fast speeds, and you should always be in control of it.
- Share the Road. Be careful in mixed traffic. When on bicycle paths, traveling near pedestrians, or on recreational trails, try to be polite and courteous to those using the paths with you.

## ***Items to Carry with the Mobility Scooter***

It is a good idea to carry the following items with you at all times when you ride your mobility scooter.

- The charger, to charge the scooter in case the battery power runs out
- A cover, to protect your e-scooter from the weather if you are to park it for long periods of time



## ***Inspecting your Mobility Scooter***

Always inspect your mobility scooter before you ride it, to make sure its safety features are operating properly. Many accidents can be avoided with routine inspections. Once you are comfortable with your mobility scooter, you will be able to detect small changes in the way it feels. If anything changes between uses, make sure to have it properly examined. Also, be sure to listen for changes in the sounds your mobility scooter makes over time. Any mechanical or power issues may have effects on the sounds the scooter makes.

## ***Holding the Handlebars***

Place your fingers over the brake levers, using the palms of your hand and your thumbs to wrap around and under the handlegrips. Doing this allows you to activate the brakes easily, by squeezing your hand, in case you have to stop quickly. This is the safe way to control your mobility scooter.

## ***Turning your Mobility Scooter On and Off***

To turn on your mobility scooter, insert the key into the “ignition”, located just below the dash board, and turn the key to the right. When your e-scooter is activated, the power indicator will light and the battery charge indicator will jump, showing you how much power your e-scooter has. To turn off the mobility scooter, simply turn the key to the left, and remove the key.

### ***Warning***

When you activate the mobility scooter, the electrical system becomes live. Do not try to affect changes to the mobility scooter (such as removing the battery or repairing electrical components) while the mobility scooter is activated. Turn the mobility scooter off and remove the key before you attempt to access any of the electrical components. Also, the battery carries a significant electric charge and can injure people if not treated properly and with respect.

## ***Accelerating and Decelerating***

The throttle is found on the right-side hand grip on the handlebars. Turn the grip forward (away from you) to accelerate. To decelerate, release the grip (turn it towards you). Don't over-rotate the accelerator, as this could damage the battery and electrical components.

### ***Warning***

Do not activate the accelerator until you are seated on the mobility scooter and are ready to accelerate. The mobility scooter can easily escape from your control, possibly injuring you or others, and the mobility scooter may be damaged by being crashed.



## ***Stopping***

Your mobility scooter has two sets of brakes, at the front and at the rear. The levers attached to the handlebars, on the left and right, activate the brakes. Pull the levers toward you to activate the brakes.

You can use both brakes to come to a stop more quickly, or you can use one of the brakes to come to a gentle stop, depending on your riding needs at the moment.

When the brakes are activated, the power to the engine is automatically turned off, until you release the brakes. This allows you to stop safely.

## ***Safety Tips***

- When you are traveling in wet weather, water may cause your brakes to function less efficiently because it reduces friction between the brake pads and the wheels. Take care to slow down and give yourself more room to stop or slow if necessary.
- It is a good idea to have your brakes and brake pads checked regularly. The brake pads will eventually wear down through friction, and after significant use will have to be replaced.

## ***The Horn***

The mobility scooter has a horn. There are horn buttons on the left side of the function switches on the handlebar. Simply press it to activate the horn.

## ***Turning Signal Lights***

Your mobility scooter has turn signal lights. The turn signal activator is on the left handlebar. Push it left or right to activate it to indicate that you are turning in the appropriate direction, and press the middle of the button to turn it off.

## ***Lights***

The headlight and taillight are useful features when you are riding at night or in dark areas. They radically improve your safety in mixed traffic. The switch is located on the right handlebar. The lights on your mobility scooter consume some electricity. Keeping them on may reduce the maximum distance you can travel on one charge by about 5%.



## ***Riding in Wet Weather***

Your mobility scooter is designed to function in wet conditions, such as when it is raining. However, because the motor is on the rear wheel, it is easy to slip when moving at high speeds. If it is very wet, be sure to avoid high speeds.

## ***The Motor and Water***

Your mobility scooter is not designed to be immersed in water. Always ensure that the water level does not go above the middle of the tire, to prevent water from getting inside the motor.

Water in the motor can cause short-circuits and may damage the electrical systems in your mobility scooter.

## ***Riding in Cold Weather***

Your mobility scooter is designed to operate year-round. However, in very cold conditions or when there is a lot of snow or slush on the ground, it is possible for the motor in the mobility scooter to get wet or for the brakes to function less efficiently, just as can happen in wet weather. Below 10 degrees Celsius, the battery will not work as well as it would in warmer temperatures. While Lithium-Ion batteries perform better than Lead-Acid batteries in temperature extremes, both will experience reduced performance in cold temperatures.

Also, riding the mobility scooter in cold temperatures may require you to replace the battery sooner rather than later.



***Thank you for choosing Daymak***

