



# **NEUTRON & PROTON**

Electric Scooter User Manual



SHOKSCOOTERS.COM



## **THANK YOU FOR YOUR PURCHASE!**

This user manual will help you assemble and operate your SHOK Neutron and Proton Electric Scooter. Be sure to read all of the information in this manual before riding.

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## **PACKAGE CONTENTS**

### **Assembled Electric Scooter**

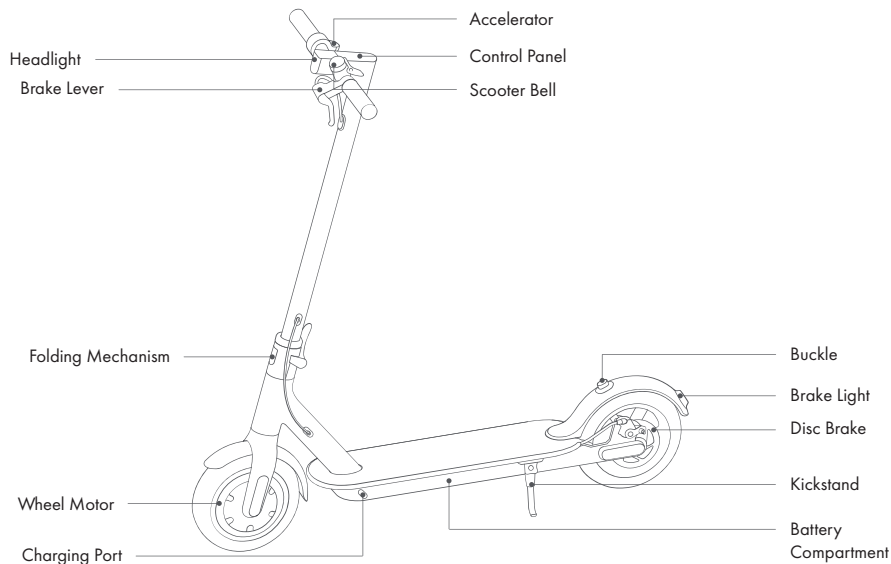


**Neutron**



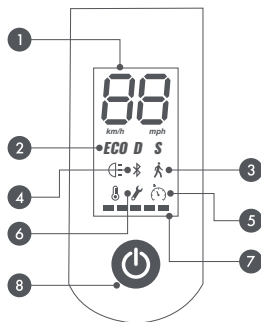
**Proton**

## SCOOTER OVERVIEW

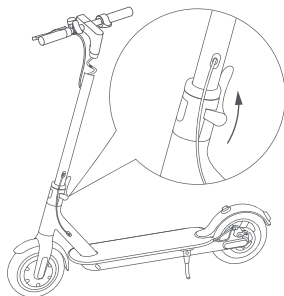


# CONTROL PANEL

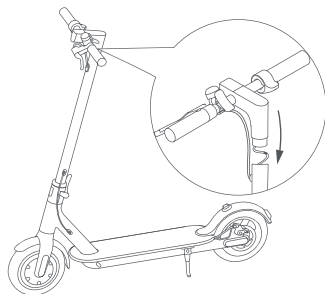
- 1 Speedometer**  
Displays the current speed of the scooter, and displays error codes.
- 2 Modes**  
The 3 modes available: "ECO" for Energy saving (smooth acceleration, suitable for beginners), "D" for Standard mode, and "S" for Sport mode (powerful, only recommended for skilled riders).
- 3 Pedestrian Mode**  
Makes pushing the scooter easier.
- 4 Bluetooth**  
The icon indicates whether or not the scooter has been successfully connected to the mobile device.
- 5 Cruise Control**  
To enable cruise control, hold down the throttle at a fixed position for 10 seconds. To disable it, apply the brakes or change the throttle position.
- 6 Error**  
The wrench icon indicates that the scooter has detected an error.
- 7 Battery Level**  
The battery power is indicated by 5 bars, each representing approximately 20% of a full battery.
- 8 Power Button**  
Press the button to turn the scooter on. Press and hold the button for 3 seconds to turn the scooter off. When the scooter is on, press the button to turn the headlight on/off, and double press to switch between modes.



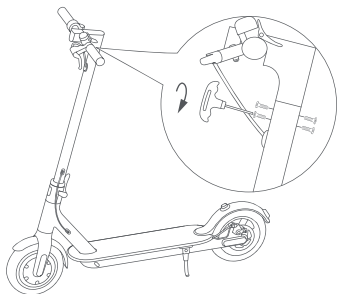
## ASSEMBLY & SETUP



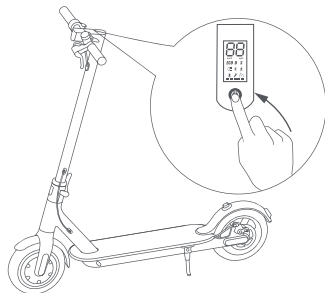
- 1** Put the kickstand down, and fasten the handlebar stem on the headset.



- 2** Attach the handlebar to the stem.

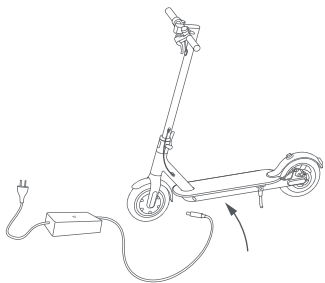


- 3** Tighten the screws onto both sides of the stem with the hexagon wrench.



- 4** After assembly, press the power button to check that the scooter is working properly.

## CHARGING THE SCOOTER



1 Lift up the charging port cover.



2 Plug the power adapter into the charging port.



3 When charging is completed, cover the charging port.

The scooter is fully charged when the LED on the charger changes from red (charging) to green.

## Safety Warnings

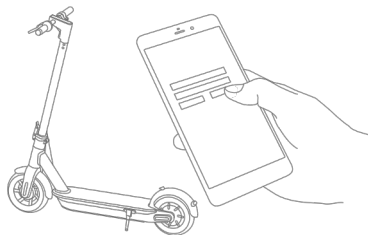
- The charger supplied with the electric scooter should be regularly examined for damage to the cord, plug, enclosure and other parts. In the event of damage, the scooter must not be charged until the charger has been repaired or replaced.
- Use only with the recommended charger.
- Use caution when charging.
- DO NOT operate the charger near flammable materials.
- Unplug the charger and disconnect it from the scooter when not in use.
- DO NOT exceed charging time.
- ALWAYS disconnect the charger from the scooter prior to wiping down and cleaning your scooter with liquid.

FAILURE TO HEED THE ABOVE WARNINGS INCREASES RISK OF SERIOUS INJURY. USE WITH APPROPRIATE CAUTION AND PAY CLOSE ATTENTION TO SAFE OPERATION.

## CONNECT WITH THE APP



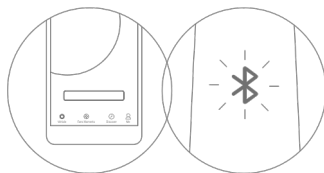
- 1 Scan the QR card attached to your scooter or visit [shokscooters.com/QRcodes](https://shokscooters.com/QRcodes)



- 2 Install the app and register/login.

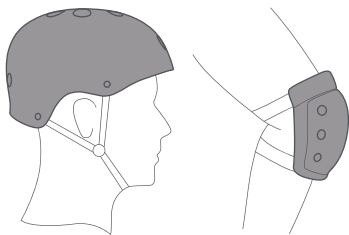


- 3 Power on the scooter. A blinking Bluetooth icon indicates the scooter is waiting for a connection.

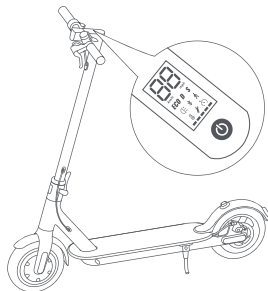


- 4 Click "Vehicle", then "Scan for Vehicle" to connect to your scooter. The scooter will beep when the connection is successful and the Bluetooth icon will stop blinking and remain illuminated. Follow the app instructions to activate the scooter. You can now use your SHOK electric scooter.

## HOW TO RIDE

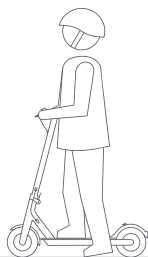


Always wear an approved safety helmet, elbow pads and knee pads. A long-sleeve shirt and pants are recommended.



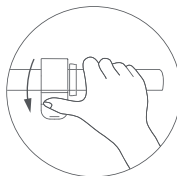
1

Turn on the scooter, and check the power indicator.



2

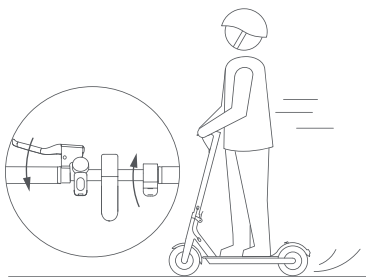
Step on the deck with one foot, and slowly kick off the other on the ground.



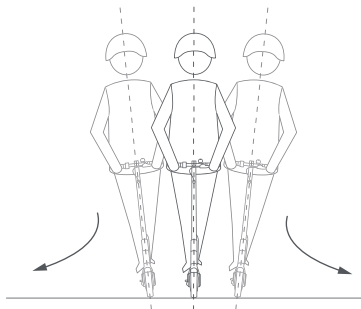
3

When the scooter starts to coast, put both feet on the deck and press the accelerator. Note: The accelerator initiates once the coasting speed exceeds 5kph (3.1 mph).

## HOW TO RIDE



- 4** Release the accelerator and the kinetic energy recovery system (KERS) initiates automatically to brake slowly; squeeze the brake lever to brake faster.



- 5** Tilt your body to the steering direction as you turn, and slowly turn the handlebar.

## SHOK EcoTrek Platform

The SHOK EcoTrek Platform features a Kinetic Energy Recovery System (KERS) which recovers the scooter's kinetic energy under deceleration, and uses it to recharge the scooter battery. The KERS improves the range of the scooter, and maximizes battery life, so you get the most out of every ride. It is recommended to use the KERS to slow the scooter when only gentle deceleration is required instead of manual braking. This saves wear and tear on the brake assemblies, and prolongs the life of the battery and the scooter.

At the heart of the SHOK EcoTrek Platform is a high purity copper motor with built-in cruise control, which reduces motor weight and increases motor efficiencies during operation.

An intelligent battery with built in Smart chip records battery usage, charging, and discharging for optimal battery life. It also provides protection from short circuit, overcurrent, under voltage, overcharge, and over discharge.

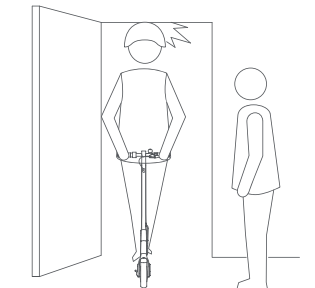
A robust smart controller connects it all together to improve the performance of the motor and battery, and extend the life of the electric scooter.

# SAFETY INSTRUCTIONS

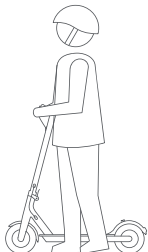
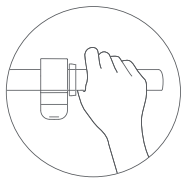
## Watch out for the following safety risks



DO NOT ride the scooter in wet weather. It is dangerous and may result in injury. Wet conditions can damage the electronics and void the warranty.



NEVER ride the scooter indoors. You may risk injury or cause damage to personal and private property.

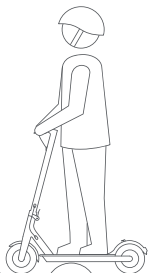


DO NOT press the accelerator unless you are on the scooter and in an environment suitable for riding.

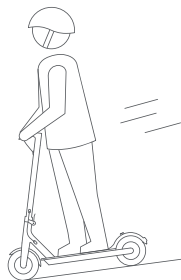


ALWAYS steer clear of potential obstacles that could catch your wheel or force you to swerve suddenly and lose control of the scooter.

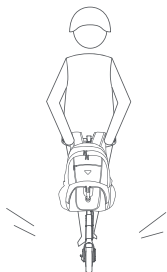
## SAFETY INSTRUCTIONS



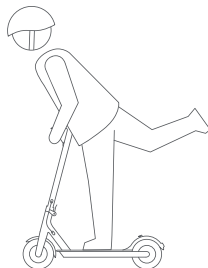
Keep your speed between 5-10kph (3.1-6.2mph) when riding over speed bumps, or bumpy roads. Slightly bend your knees to adapt to uneven surfaces.



DO NOT accelerate when going downhill, and brake in time to slow down. When encountering a steep incline, step off the scooter and push. Do not attempt to ride up.

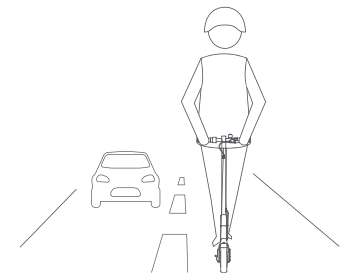


DO NOT hang bags or other heavy items on the handlebars.

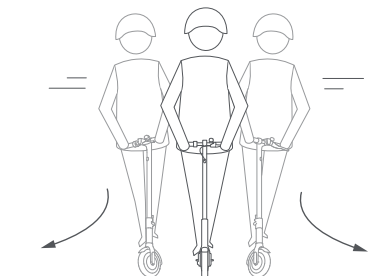


DO NOT ride on a single foot.

## SAFETY INSTRUCTIONS



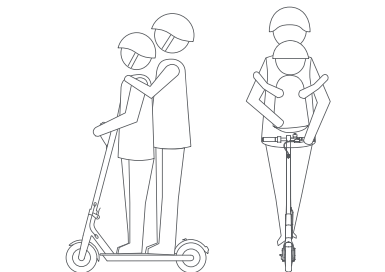
DO NOT ride in traffic lanes or residential areas where vehicles and pedestrians are both allowed.



DO NOT abruptly change the steering direction.

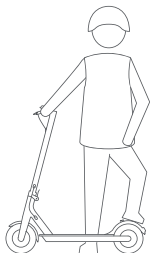


DO NOT ride through puddles or any other (water) obstacles. Slow down and bypass them.

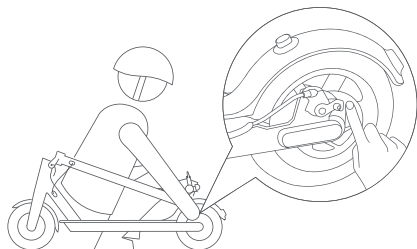


NEVER allow more than one person at a time to ride the scooter, including children.

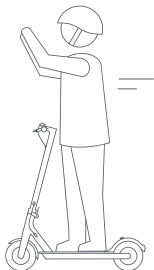
## SAFETY INSTRUCTIONS



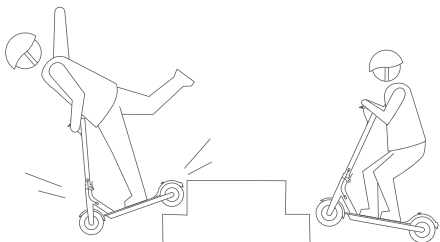
DO NOT keep your feet on the rear mudguard.



DO NOT touch the disc brakes or motor on the scooter when in use, or immediately after riding, as these parts can become very hot.



DO NOT remove your hands from the handlebars while riding.



DO NOT attempt to jump over obstacles, do stunts, or tricks, on your electric scooter. The scooter is not made to withstand abuse from misuse such as jumping, curb grinding, or any other type of stunts.

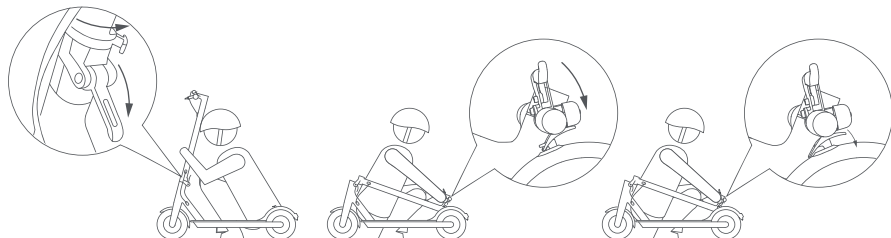
## SAFETY REMINDER

**WARNING:** Riding the electric scooter can be a hazardous activity. Whenever you ride the electric scooter, you risk severe injury or even death from loss of control, collisions, and falls. **USE CAUTION AND RIDE AT YOUR OWN RISK.**

- ALWAYS check and obey any local laws or regulations which may affect where the electric scooter may be used.
- Be careful to avoid pedestrians, skaters, skateboards, scooters, bikes, children or animals who may enter your path, and respect the rights and property of others.
- ALWAYS wear proper protective equipment such as an approved safety helmet, elbow pads and kneepads. A long-sleeved shirt, long pants, and gloves are recommended. Always wear athletic shoes (lace-up shoes with rubber soles). NEVER ride barefooted or in sandals, and keep shoelaces tied and out of the way of the wheels, motor and drive system.
- Make sure your scooter has a full battery before taking it out to ride.
- DO NOT ride the scooter under the influence of drugs or alcohol.
- Be sure to check the scooter before every use, and make certain it is operating correctly. Check that the braking system is functioning properly, and any and all axle guards, chain guards, or other covers or guards supplied, are in their proper place and in serviceable condition. Ensure that the tires are in good shape, inflated properly, and have sufficient tread remaining. If you notice loose parts, low battery alerts, flat tires, excessive wear, strange sounds, malfunctions and other abnormal conditions, stop riding immediately and call for professional support.
- DO NOT modify the scooter from the manufacturer's original design.
- NEVER exceed the 100kg (220 lb) maximum load rating.
- Keep your fingers and other body parts away from the steering system, wheels and all other moving components while operating the scooter.
- NEVER use headphones or a cell phone when riding.
- NEVER hitch a ride with another vehicle.
- DO NOT ride at night or when visibility is limited.

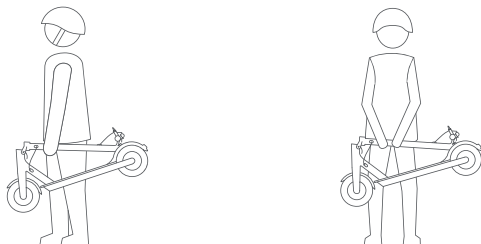
# FOLDING & CARRYING

## Folding & Opening



Make sure that the scooter is turned off before folding. To fold, turn the handlebar stem counterclockwise to open the safety hook, and unlock the quick release lever. Bend the handlebar stem, aligning the bell to the buckle on the rear mudguard, and hook them together. To open, press the bell trigger to disengage from the buckle on the mudguard. Fold the handlebar stem up, close the quick release lever, and turn the handlebar stem clockwise to close the safety hook.

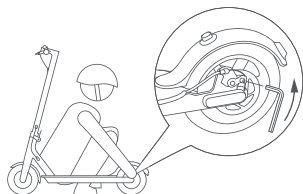
## Carrying



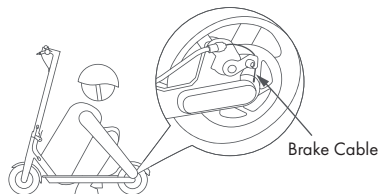
To carry the scooter, hold the handlebar stem with either one hand or both hands.

## DAILY CARE & MAINTENANCE

### Adjusting the Disc Brake

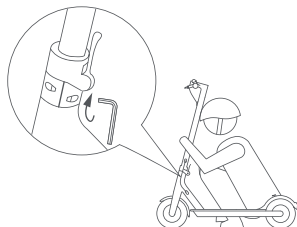
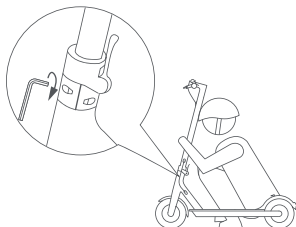


If the brake is too tight, use the 4mm Allen key to loosen the screw on the caliper. Then slightly adjust the brake line (decrease the exposed length), and tighten the screw again.



If the brake is too loose, loosen the screw on the caliper. Then slightly adjust the brake line (increase the exposed length), and tighten the screw again.

### Adjusting the Handlebar



Long-term use of the scooter may result in loose screws, causing the handlebar stem to become unstable. If you notice the handlebar stem is shaky or loose when riding, use the 4mm Allen key to tighten the screws on the holding mechanism.

# DAILY CARE & MAINTENANCE

## Cleaning

To clean the scooter, wipe it with a damp cloth. DO NOT use alcohol, gasoline, kerosene, or other corrosive chemical solvents to clean the scooter. It can severely damage the appearance and structure of the scooter. DO NOT use a pressure washer as it may cause damage to the electronics. During cleaning, make sure that the scooter is turned off, the charging cable is unplugged, and the charging port cover is closed, as water leakage may result in electric shock or damage to the electronics, voiding the warranty.

## Storage

When the scooter is not in use, keep it indoors and store it in a cool, dry place. Avoid storing the scooter outdoors. Excessive sun exposure can damage the scooter's appearance, while overheating and overcooling accelerate tire aging, and compromise the battery pack's lifespan.

## Tires

If you notice that the tire pressure is low, please fill to the recommended PSI on the side of the tire. Recommended PSI: 36

## Battery Maintenance

- Use original battery packs, use of other models or brands may be dangerous.
- DO NOT touch the contacts. DO NOT dismantle or puncture the casing. Keep the contacts away from metal objects to prevent short circuits which may result in battery damage or even injuries and deaths.
- Only use the approved power adapter to avoid potential damage to the battery or fire.
- Improper disposal of used batteries may do serious harm to the environment. Make sure to follow local regulations to properly dispose of used batteries.
- After every use, fully charge the battery to prolong its lifespan. DO NOT ride until the battery is fully out of power.
- DO NOT place the battery in an environment where the ambient temperature is higher than 50°C (122°F) or lower than -20°C (-4°F).

NOTE: a fully charged scooter will last for 120-180 days. The built-in intelligent chip will keep a log of its charging and discharging records. The damage caused by prolonged no charge is irreversible and is beyond limited warranty.

# SPECIFICATIONS

Performance Index	Items	Neutron	Proton
		7.5Ah	15Ah
Dimensions	Before Folding	1080mm X 430mm X 1090mm	1180mm X 490mm X 1180mm
	After Folding	1080mm X 430mm X 490mm	1180mm X 490mm X 530mm
Weight	Item weight	Approx. 12kg	Approx. 17kg
Riding Requirements	Max load	100kg	100kg
	Age	16-50	16-50
	Body Length	120-200cm	120-200cm
Main Parameters	Max. speed	30kph (18.6mph)	30kph (18.6mph)
	Max. climbing angle	Approx. 14%	Approx. 14%
	General range	Approx. 20-25km	Approx. 35-50km
	Suitable surfaces	Cement asphalt and mud roads; bench lower than 1cm; crevice narrower than 1.2 inches	
	Operating temperature	14°F-104°F	14°F-104°F
	IP rating	IPX4	IPX4
Battery Pack	Rated Voltage	36V	36V
	Max. input voltage	42V	42V
	Intelligent battery	Short circuit/under voltage/overcurrent/overcharge/over-discharge protections	
Wheel Motor	Rate power	350W	500W
	Max. power	500W	800W
Charging Adapter	Output voltage	42V	42V
	Output current	1.5A	1.5A
	Charging time	Around 3-4 hrs	Around 6-7 hrs

[1] Item height: from the ground to the top of the scooter;

[2] General range: measured when there is no wind, at a temperature of 25°C (77°F), with the scooter fully charged, and driven at a even speed of 15kph (9.3mph) on a flat surface, with a load of 75kg (165.3lbs).

NOTE: data and specifications may vary due to different models, and are subject to change without notice.

# WARRANTY

## 90 Day Limited Warranty

The manufacturer warrants this product to be free of manufacturing defects for a period of 90 days from date of purchase. This 90 Day Limited Warranty covers the battery, electric motor, and controller. This 90 Day Limited Warranty does not cover normal wear and tear, tires, tubes or cables, or any damage, failure or loss caused by improper assembly, maintenance, storage or use of the scooter.

### To Qualify for Warranty Service:

- You must present a copy of the sales receipt within 90 days of purchase.
- The product cannot be modified in any way.
- The product cannot be used for rental or commercial use, or in competition.

### Limitations of Liability

- This Limited 90 Day Warranty is non-transferable after the product's initial sale.
- Units replaced under warranty are not covered by any additional warranty.
- Warranty is void if the scooter shows visible signs of damage or has been misused beyond what is considered normal use, including water damage.
- Damage due to misuse or neglect, or use other than as specified in the User's Manual, are not covered by this Limited 90 Day Warranty.
- Warranty is void if weather related water damage is determined. The owner is responsible for storage and protection of the scooter from the weather.
- This Limited 90 Day Warranty does not cover minor surface blemishes, rips, tears, or other cosmetic damage due to normal use, nor does it cover any damage which results from aging, such as fading of paint, deterioration of plated surfaces, deterioration of rubber or plastics, or rusting.
- This Limited 90 Day Warranty will not cover any damage which results from the application of improper cleaners, solvents or chemicals to the product, water damage, smoke or soot, or from exposure to saltwater, sea breeze or salt.