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> [INSDRGN A14 PRO 14" Folding Electric Bike User Manual](#)

INSDRGN A14 PRO

INSDRGN A14 PRO 14" Folding Electric Bike User Manual

Model: A14 PRO | Brand: INSDRGN

INTRODUCTION

Thank you for choosing the INSDRGN A14 PRO 14" Folding Electric Bike. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your electric bike. Please read this manual thoroughly before your first ride and keep it for future reference. Proper understanding and adherence to these instructions will ensure a safe and enjoyable riding experience.

SAFETY INFORMATION

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Familiarize yourself with local traffic laws and regulations. Regular maintenance is crucial for safe operation.

General Safety Guidelines

- Always wear a certified helmet.
- Perform a pre-ride inspection before each use.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and traffic.
- Maintain a safe speed and braking distance.
- Avoid riding in adverse weather conditions.

Pre-Ride Checks

- **Brakes:** Ensure both front and rear brakes function correctly.
- **Tires:** Check tire pressure and for any damage.
- **Battery:** Verify the battery is securely locked and sufficiently charged.
- **Frame:** Inspect the frame and folding mechanisms for any loose parts or damage.
- **Lights:** Confirm headlights and taillights are operational.

PACKAGE CONTENTS

Upon unpacking, please ensure all items are present:

- INSDRGN A14 PRO Electric Bike (partially assembled)
- Battery Charger
- Quick Start Guide (this manual)
- Tool Kit (for minor assembly)

ASSEMBLY AND INITIAL SETUP

Your INSDRGN A14 PRO electric bike comes mostly assembled. Follow these steps for final setup.

1. Unfolding the Bike

1. Place the bike on a stable surface.
2. Locate the main frame folding latch. Release the latch and carefully unfold the frame until it locks into place. Ensure the latch is securely fastened.
3. Unfold the handlebar stem and secure its latch.

2. Handlebar Installation and Adjustment

The handlebar may need to be inserted into the stem and adjusted for height and angle.

1. Loosen the stem clamp bolt.
2. Insert the handlebar into the stem. Ensure internal cables are not pinched.
3. Adjust the handlebar to a comfortable height and angle.
4. Tighten the stem clamp bolt securely.

3. Seat Adjustment

1. Open the seat post quick-release lever.
2. Adjust the seat height so your feet can comfortably touch the ground when stopped, or slightly bent when pedaling.
3. Close the quick-release lever firmly to secure the seat post.

4. Pedal Installation

Identify the left (L) and right (R) pedals. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise.

1. Apply a small amount of grease to the pedal threads.
2. Carefully thread each pedal into its corresponding crank arm.
3. Tighten firmly with a wrench.

5. Battery Installation and Initial Charge

Ensure the battery is fully charged before your first ride. Refer to the 'Battery Management' section for detailed charging instructions.



Image: Visual guide for initial assembly steps including unfolding, handlebar, and seat adjustment.

OPERATING YOUR ELECTRIC BIKE

This section details how to operate your INSDRGN A14 PRO electric bike, including power modes and controls.

1. Powering On/Off

Locate the power button on the display or control panel. Press and hold to turn the bike on or off.

2. Ride Modes

Your INSDRGN A14 PRO offers three distinct ride modes:

- **Pure Electric Mode:** Engages the motor via a throttle, providing power without pedaling.
- **Electric Assist Mode (PAS):** The AI-powered pedal assist system provides motor assistance as you pedal. The level of assistance adjusts automatically based on your riding needs.
- **Normal Bike Mode:** The motor is disengaged, and the bike operates like a traditional bicycle, powered solely by pedaling.

AI Electric Assist System

Self-developed AI chip
Intelligent assistance for riding and climbing



Image: Depiction of the AI Electric Assist System, highlighting the intelligent chip for riding and climbing assistance.

3. Speed Control

The bike has a maximum assisted speed of 20 MPH. Use the throttle for pure electric mode or adjust your pedaling intensity in pedal assist mode to control your speed.

4. Braking System

The INSDRGN A14 PRO features an enhanced braking system with a 44.99% wheel-to-disc ratio for stable and efficient stopping power. Always apply both front and rear brakes simultaneously for controlled deceleration.

44.99% *Wheel-to-disc ratio, larger brake discs.*

More stable and efficient braking system



Image: Close-up of the electric bike's front wheel and brake disc, illustrating the larger brake disc for enhanced braking efficiency.

5. Folding and Unfolding

The 14-inch wheel and foldable frame allow for quick and compact storage. The bike folds down to a volume of less than 0.135m³.

1. Ensure the bike is powered off.
2. Lower the seat post to its lowest position.
3. Release the handlebar stem latch and fold the handlebar down.
4. Release the main frame folding latch and fold the bike in half. Secure all latches.

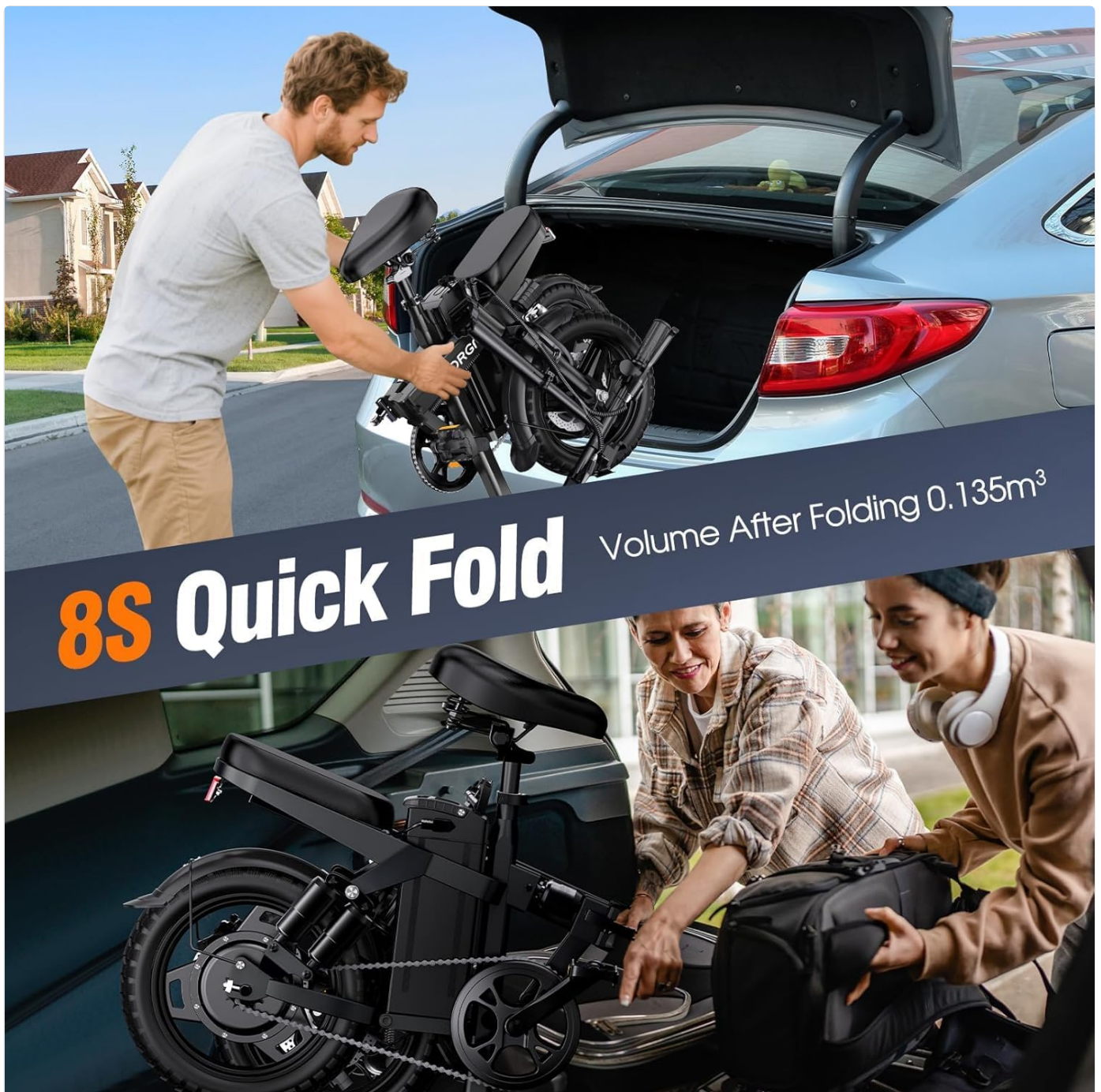


Image: Demonstrates the 8-second quick fold feature, showing the bike being placed into a car trunk after folding.

BATTERY MANAGEMENT

Proper battery care extends its lifespan and ensures optimal performance.

1. Charging Instructions

The 48V 768Wh removable battery charges in approximately 5 hours.

1. Ensure the bike is powered off.
2. Locate the charging port on the battery.
3. Connect the charger to the battery, then plug the charger into a standard wall outlet.
4. The charger indicator light will show charging status (e.g., red for charging, green for fully charged).
5. Once fully charged, disconnect the charger from the outlet first, then from the battery.

Safe and Efficient Cells



48V/16Ah/768Wh
High-energy lithium batteries



BMS
Safety Protection



7-8H
Fast Charging



Battery Removable
More flexible charging



IPX65
waterproof



Key Unlocking & Locking
Tool-less disassembly



Travel Range-purely electric mode

30 MILES

Travel Range-AI Electric Boost Mode

60 MILES

Image: Detailed view of the removable 48V 768Wh battery, highlighting its IPX65 waterproof rating and key unlocking mechanism.



Image: Illustrates the convenience of charging the portable battery both on and off the bike, at home or in the office.

2. Battery Care and Storage

- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge the battery to 50-70% every 1-2 months.
- Do not expose the battery to water or moisture beyond its IPX65 rating.

MAINTENANCE AND CARE

Regular maintenance ensures the longevity and safe operation of your electric bike.

1. Cleaning

Clean your bike regularly with a damp cloth and mild soap. Avoid high-pressure washing directly on electrical components.

2. Tire Pressure

Check tire pressure before each ride. Maintain the recommended pressure indicated on the tire sidewall for optimal performance and safety.

3. Brake Inspection

Regularly inspect brake pads for wear and brake cables for proper tension. Adjust or replace as needed.

4. Shock Absorber Check

The bike features 9 shock absorbers for comfort. Periodically check them for proper function and ensure no visible damage or leaks.

9-module damping system

Easily filter out road bumps and provide a more comfortable riding experience.



Image: Illustrates the 9-module damping system, showing various shock absorber locations for a comfortable ride.

5. General Inspection

Periodically check all bolts, nuts, and quick-release levers for tightness. Lubricate the chain as needed.

TROUBLESHOOTING

This section addresses common issues you might encounter with your INSDRGN A14 PRO electric bike.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly installed. Loose connections.	Charge the battery. Ensure battery is fully inserted and locked. Check all visible cable connections.
Motor not assisting	Pedal assist level too low or off. Sensor issue.	Ensure pedal assist is enabled. Check for any obstructions around the pedal assist sensor.

Problem	Possible Cause	Solution
Brakes feel weak	Worn brake pads. Loose brake cables.	Inspect and replace brake pads if worn. Adjust brake cable tension.
Unusual noises	Loose components. Lack of lubrication.	Inspect all bolts and nuts for tightness. Lubricate the chain. If noise persists, contact support.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact customer support.

SPECIFICATIONS

Key technical specifications for the INSDRGN A14 PRO 14" Folding Electric Bike.

Feature	Detail
Bike Type	Folding Bike
Age Range	Adult
Motor	750W (1500W Peak) Brushless Hub Motor
Battery	48V 768Wh Removable Lithium Battery (16000 mAh)
Charging Time	Approximately 5 hours
Max Speed	20 MPH (Electric Assist)
PAS Range	Up to 35 miles (Pure Electric), Up to 60 miles (AI Electric Boost Mode)
Wheel Size	14 Inches
Frame Material	Carbon Steel
Suspension Type	Dual (9 Shock Absorbers)
Brake Style	Disc Brake (44.99% Wheel-to-Disc Ratio)
Max Load	300 lbs
Vehicle Weight	64 lbs
Folded Volume	Less than 0.135 m ³
Certifications	UL 2849, GCC, SGS

Ebike Size



4'10"~6'1"

Recommended Height



230lbs

Max Load



63.93lbs

Vehicle Weight



Image: Diagram showing the dimensions of the INSDRGN A14 PRO electric bike in both unfolded and folded states.

WARRANTY INFORMATION

The INSDRGN A14 PRO electric bike comes with a **1-year limited warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship. It does not cover damage resulting from misuse, accidents, unauthorized modifications, or normal wear and tear. Please retain your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For any questions, technical assistance, or warranty claims, please contact INSDRGN customer support:

Email: yyo2025@outlook.com

Live Chat: Available via email support.

Our support team is available to assist you with any concerns regarding your INSDRGN electric bike.

