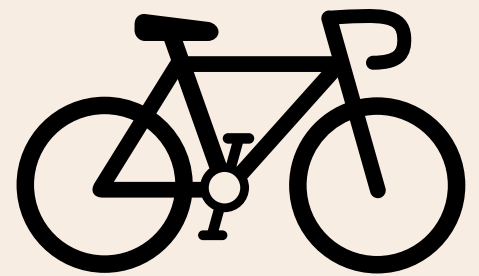




USER MANUAL

TRYDAN E-BIKES



FOR NEW RIDERS AND
BUYERS

MANUAL ENGLISH

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1. Preface

1.1 Welcome

Welcome and congratulations on your purchase of a new Trydan e-bike. The fun of riding Trydan e-bike is only moments away!

Nothing makes us happier than seeing people out riding bikes. Trydan Bikes are manufactured by Trydan Motors Private Limited, a Start-up registered in India. The Innovative bikes provide you the unique riding experience. It's our commitment to our riders that motivated us to keep developing the bikes that helps our users to live happier, healthier lives because of the joy, exercise and sheer exhilaration that riding a bicycle brings.

1.2 Use of the manual

Read all information in this manual carefully before you start riding on your new E-bike.


Safety instructions are very important and should not be overlooked. By reading the manual you will have a better understanding of the general operation of the various bikes parts.


This manual is a supplement to the general bike manual. For more information on other parts and warranty, consult the general bike manual.

1.3 Illustrations


Illustrations shown in this document may differ in detail from the exact configuration on your particular e-bike model. The illustrations are a general reference for instruction and description purposes only.


1.4 Symbols used in the manual

 **DANGER:** Warns about a situation that will cause death, serious physical injury and/or heavy material damage if one does not obey the safety instructions.

 **WARNING:** Warns about a situation that can cause death, serious physical injury and/or heavy material damage if one does not obey the safety instructions.

 **CAUTION:** Warns about a situation that can cause material damage if one does not follow the safety instructions.

 **NOTICE:** Provides important information to avoid problems.

 **INFO:** Provides additional information.

1.5 Service & technical support

NOTICE: This manual is not intended to be an extensive reference book about service, maintenance and/or repairs. Please consult your dealer for service and technical support. You can find more information about our products or find a dealer via our global website: www.trydanmotors.com .

2. Safety

2.1 Safe use of the bicycle

Before using the E-bike on the open road, ride the bike in a secure area to get acquainted with riding a bike with electric pedalling support and throttle(torque on demand). Try all riding modes on the bike and get familiar with the results.

Wear Helmet and safety gears before riding the bikes.

WARNING: Keep both hands on the grips on the handlebar and the brake levers within reach while riding, to be able to immediately respond to any circumstance.

Failing to do so can cause you to lose control over the bicycle.

WARNING: Never exceed the maximum permissible load of the bicycle with any kind of load.

NOTICE: The A-weighted emission sound pressure level at the rider's ears is less than 70 dB (A).

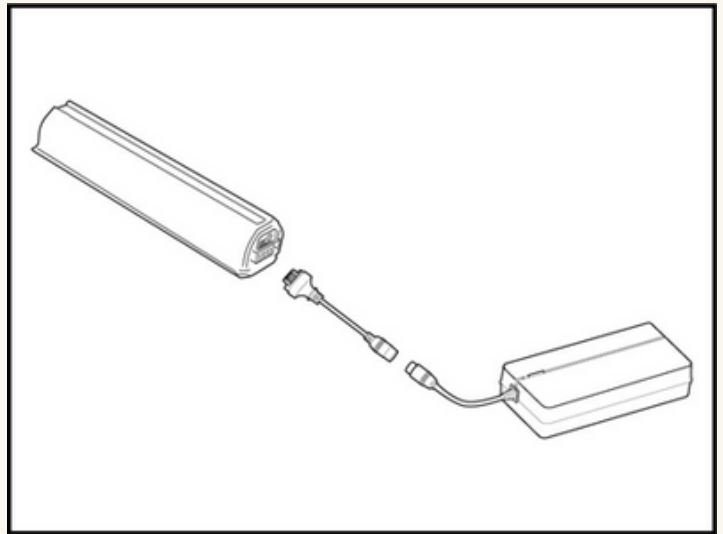


2.2 Battery & charger safety




WARNING:


- Keep the battery Pack & charger away from water and open fire.
- Do not use the battery & charger for other purposes.
- Do not connect terminals.
- Keep the battery away from children and pets.
- Do not subject the battery & charger to shocks (e.g. by dropping).
- Do not cover the battery & charger or place objects on top of it.
- Stop the charging procedure immediately if you notice a strange smell or smoke.
- In the unlikely case that the battery is on fire, do NOT try to put it out with water. Use sand instead and call emergency services immediately.





CAUTION: Avoid contact with battery and charger during charging operation. The charger heats up. Please read/note additional information on the rear of the battery case.


2.3 Luggage carrier

 **WARNING:** Always make sure that any luggage or child-seat feature fitted to the luggage carrier is securely fitted in accordance with the manufacturer's instructions, and that there are no loose straps or other items that can get caught in the wheel.

 **CAUTION:** Luggage can only be safely carried on the carrier(s). Do not attach luggage to any other part of the bike.

 **CAUTION:** The bicycle may behave differently (particularly with regard to steering and braking) when the luggage carrier is loaded.

 **NOTICE:** It is recommended to check and adjust positioning of reflectors and lamps such that these are not obscured when luggage is attached to the luggage carrier.

 **INFO:** It is recommended distribute luggage evenly between the two sides of the luggage carrier.

Carriers

Secure the carrier properly and firmly to the frame with the bolts provided. Do not exceed the carrying weight limit of the carrier. The carriers provided with Trydan Cargo e-bikes have weight limits mentioned on them.

 **CAUTION:**

There are many types of carriers that can have different specifications. Before use, always consult the documentation that came with the carrier and/or consult your local dealer for installing instructions, maximum load, torque specifications, parts specifications, maximum compatible wheel size, trailer- and child seat compatibility. For information about the name and address of the manufacturer, importer or representative, trademark, model and production batch number or reference, check the carrier's documentation and/or on the carrier itself.

3. Descriptions

3.1 Introduction E-Components

Trydan e-bikes are equipped with unique components and technology developed by Trydan Motors, aimed to provide the highest performance and best experience for each rider's usage. We briefly explain some of the major system components and terminology below.

Battery Pack

Trydan batteries produce maximum performance in an integrated package. The battery pack is a Li-ion battery pack that charges very fast compared to other battery systems and provides a superb riding range. The battery pack can be removed from the bike and carried away for charging.

All battery packs are thoroughly tested in our factories to ensure maximum quality, safety and reliability.

BLDC Hub Motor

The BLDC Hub motor is widely acclaimed for its performance and reliability. Finely tuned by Trydan for best performance on each model, the small rear wheel hub motor delivers a powerful, yet smooth and natural pedalling assistance in every assist mode. The Motor provides multiple riding modes.

Maximum torque is available in the "Hill Assist" mode to help you climb the steepest slopes.

Riding Modes

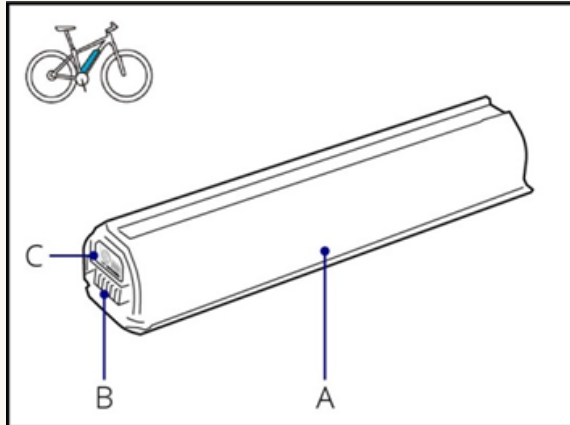
Trydan Bikes offer Multiple riding modes .

- Manual
- Pedal Assist
- Hill Assist
- Throttle
- Cruise

3.2 Battery Pack & charger

Battery Pack

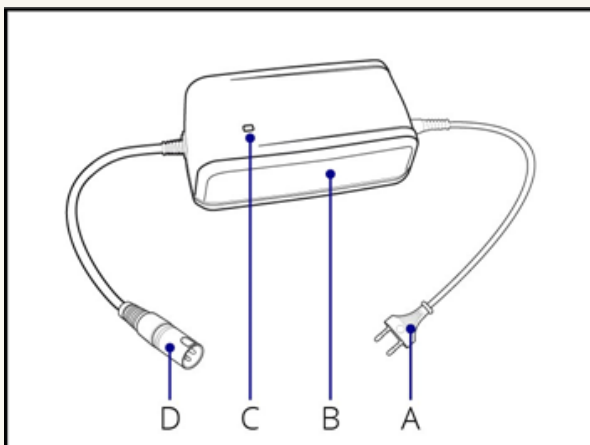
Trydan Bikes come with integrated and swappable Li-ion battery pack. The battery pack can be easily installed and removed from the bike. The battery pack has an indicator which shows the level of charging.



- A. Battery
- B. Charging socket
- C. Energy level check (button)

Charger

Trydan Bikes come with 3A charger which is easy to carry along and can be used with normal socket.



- A. AC socket (110~230 V) (type will vary)
- B. Charger
- C. Charging indicator
- D. Charging socket

3.3 Riding Modes and Displays

Trydan Bikes offers various riding modes depending upon the models.

Riding Modes

- Manual Mode

Ride just like a conventional bicycle by simply pedalling at your desired speed.

Effort-100% Assistance -0

- Pedal Assist Mode

In this mode the motor provide you assistance in pedalling bike to longer distance with minimum efforts.

Effort- 40% Assistance-60%

- Hill Assist Mode

This mode is more powerful version of Pedal Assist to cater hilly regions and flyovers.

Effort- 25% Assistance-75%

- Throttle Mode

Want to ride without pedalling? Select the throttle mode and ride by simply twisting the throttle.

Effort- 5% Assistance-95%

- Cruise Mode

Select the cruise mode and bicycle will attain and maintain the speed of 15kmph. No further input required from the rider.

Effort- 0% Assistance-100%

Displays

Displays act as source of information and user interface.

It shows vehicle speed assistance level trip information and battery level.

Power button is used to turn on-off the vehicle

Top and bottom button are used for increasing and reducing assistance level respectively.



Mobile App Connectivity

Trydan Mobile Applications gets connected to Trydan e-bike via Bluetooth.

Connect your mobile app to your e-bike to access all the features of e-bike.

The Mobile App will show the connectivity status of the bike.

Vehicle Information

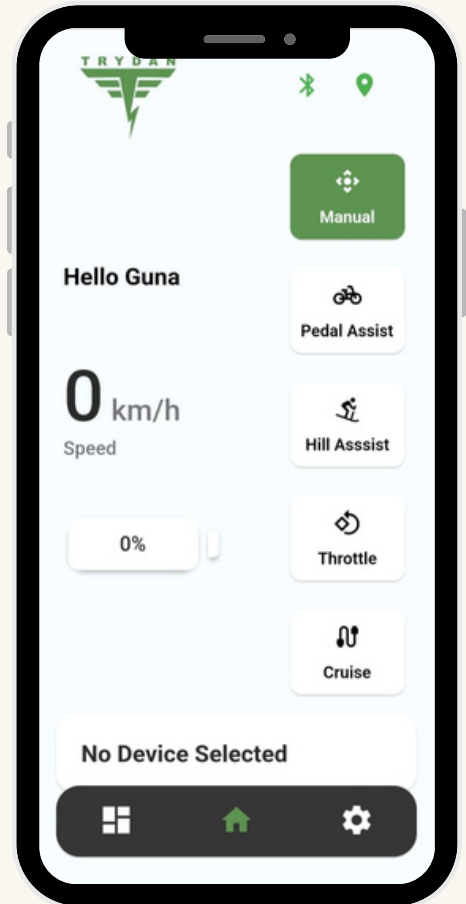
The Apps shows the battery status and connectivity status of the Vehicle.

Mode Selector

The Mobile app act as a mode selector.

After selecting the desired mode from the application the user can start riding the bike in desired mode.


When the bike turns on the default riding mode is manual mode.



4. Transport & Storage

This chapter describes specific information regarding the e-bike parts. For more information on transport and storage of the bike, consult the general bike manual.

4.1 Transportation

 **CAUTION:** Batteries are not designed to be on the bike during transportation by car. Batteries must be taken off the bike(s) and transported inside the car.


4.2 Storage

E-bike

Store the bike in a location where it is protected from snow, rain, sun etc. Snow and rain can cause the bike to corrode. The ultraviolet light from the sun can fade the paint or crack any rubber or plastic on the bike.

Battery Pack

If the bike is not used for a longer period (one month or more) the battery pack is best stored:
At 60% of its capacity.
Separate from the bike.
At temperatures between 0°C and 40°C.

 **NOTICE:** Check the Battery pack every month to see if at least one LED is still blinking. Charge the Battery pack if necessary.

 **CAUTION:** Charge the Battery pack every 3 months. Negligence to do so may void the warranty of the Battery pack.

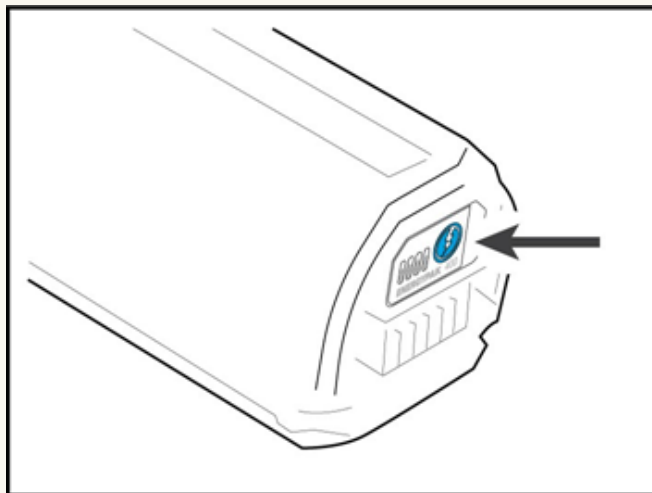
5. Bike usage

5.1 Range

- a) The range on one charge strongly depends on several circumstances, such as (but not limited to):
- b) Weather conditions, such as ambient temperature and wind;
- c) Road conditions, such as elevation and road surface;
- d) Bike conditions, such as tire pressure and maintenance level;
- e) Bike usage, such as acceleration and shifting;
- f) Rider and luggage weight;
- g) Amount of charge and discharge cycles;
- h) Age and condition of the Battery pack.

5.2 Battery Pack

Power in the Battery pack can be checked by pushing the energy level check button.



NOTICE:

After 15 normal charges, or at least every 3 months, discharge the Battery pack completely before recharging the Battery pack. This will optimize the lifespan of the Battery pack.

When a Battery pack is connected to the bike, some power will get lost in the system when the bike is not in use. To prevent this, the Battery pack can be disconnected from the bike when not in use for more than a few days.

New Battery pack

A new Battery pack is shipped in a protective 'hibernate' state. It must be activated before it can be used.

A 'hibernated' Battery pack be recognized by pushing the energy level check button. The LEDs of the Battery pack will not light up.

Plug an active charger in the Battery pack.

Unplug the charger from the Battery pack;

The Battery pack is now no longer in 'hibernate' state. Pushing the energy level check button will result in LEDs lighting up.

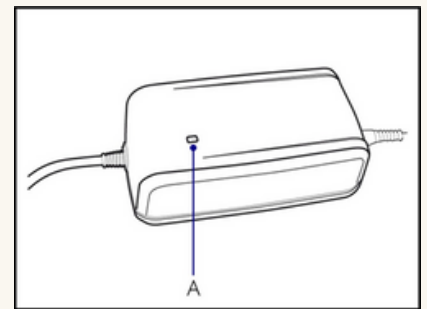
The Battery pack is ready for use.

It is not possible for a Battery pack to go back to 'hibernate' state once it is activated. Usually, your dealer will activate and charge the Battery pack.

5.3 Charging

INFO:

- Charge the Battery Pack battery at room temperature ($\pm 20^{\circ}\text{C}/68^{\circ}\text{F}$).
- Charging below 0°C or above 40°C ($32^{\circ}\text{F}\sim 104^{\circ}\text{F}$) can lead to insufficient charging and can have a negative impact on the battery life cycle.



5.3.1 Use of the chargers

3A charger

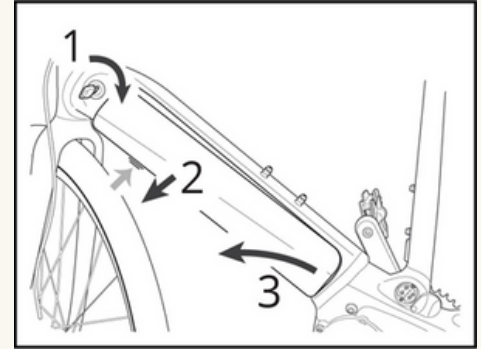
- Battery Pack not connected: Charger LED (A) is green (constant).
- During charging: Charger LED is red (constant).
- Charging issue: Charger LED is red (blinking).
- Charging is completed (100%): Charger LED is green (constant).

5.3.2 Battery Pack removal & installation

 **NOTICE:** Always switch off the power first, before removing the Battery Pack

Removing the Battery Pack :

- Hold the battery in the frame to make sure it cannot drop when unlocking;
- Insert the key and unlock the Battery Pack . The Battery Pack will be ejected slightly;
- Some models have an extra drop protection. Push the plastic tab underneath the battery (light grey arrow) to release the Battery Pack.
- Remove the battery from the bike.




Installing the Battery Pack :

- Reverse removal procedure to install the Battery Pack.
- Make sure the slots are aligned correctly at the bottom;
- Push the top of the Battery Pack and make sure the Battery Pack is secured properly (a 'click' can be noticed while doing so);
- Pull out the key;
- The bike is ready for use.

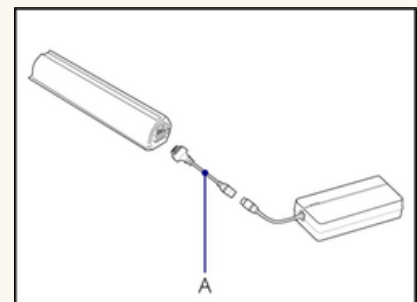
5.3.3 Charging a removed Battery Pack

 **NOTICE:** Always switch off the power first, before removing the Battery Pack.

 **NOTICE:** Always take care to align all connectors properly before connecting.

Charging the Battery Pack:

- Connect the charger to the Battery Pack;
- Connect the charger to an AC outlet;
- Charging operation can be discontinued at any given time;
- Disconnect the charger from the mains outlet;
- Disconnect the charger from the Battery Pack.



6. Maintenance



INFO: Make sure to also read the information on maintenance in general bike manual.

6.1 Cleaning

Trydan E-bikes use plastic shells to cover electric parts. Do not use excessive water to wash the plastic. Use a soft cloth with a neutral solution to wipe the dirt off the plastic shells. After that, wipe it dry with a clean soft cloth.



CAUTION: Do not use high-pressure water or air hoses for cleaning. It can force water into electric components, which may cause malfunctioning.



CAUTION: Do not wash the E-bike components with excessive water. If the internal electrical parts are infected with water, the insulator may corrode which leads to power-drain or other problems.



CAUTION: Do not use non-neutral soap solutions to wash plastic components. Non-neutral solutions may cause colour-change, distortion, scratching etc.

7 Legal documentation

7.1 Warranty

Trydan Motors Pvt.Ltd. warrants for the original owner only the frame, rigid fork, or original component parts of each new Trydan brand bicycle to be free from defects in material and workmanship for the following specified periods:

Warranty of One Year for electronic equipment such as:

- Throttle
- BLDC Hub Motor
- Battery Pack; for 60% of its original nominal capacity at a maximum of 600 charges.

7.2 Exclusions

Normal wear and tear on parts such as tires, chains, brakes, cables and gearwheels in situations where there are no assembly or material defects.

- Bicycles serviced by other than an Authorized Trydan dealer.
- Modifications from the original condition.
- Use of the bicycle for abnormal, competition and/or commercial activities or for purposes other than those for which the bicycle was designed.
- Damage caused by failing to follow the user manual.

Paint finish and decal damage resulting from taking part in competitions, jumping, downhill and/or training for such activities or events or as a result of exposing the bike to or riding the bike in, severe conditions or climates.

- Labour charges for part replacement or changeover.

Except as is provided by this warranty and subject to all additional warranties Trydan and its employees and agents shall not be liable for any loss or damage whatsoever (including incidental and consequential loss or damage caused by negligence or default) arising from or concerning any Trydan bicycle.

7.3 Disclaimer

Do not tamper with your bicycle. Tampering is removing or replacing any original equipment or modifying your bicycle in any way that may change its design and/or operation. Such changes may seriously impair the handling, stability and other aspects of the bicycle, making it unsafe to ride. Tampering can void the warranty and render your bike not in compliance with the applicable laws and regulations. To ensure safety, quality and reliability, use only original parts or Trydan authorized replacements for repair and replacement. Trydan is not responsible for any direct, incidental or consequential damages, including, without limitation, damages for personal injury, property damage, or economic losses due to tampering.