

# INTRODUCTION

**Power Bike** EST

**Dear Customer,**

We welcome you to our Organization & congratulate for the wise intellectual decision for the purchase of "**POWER BIKE SERIES**" Electric Battery Operated Two Wheeler Vehicle. We are glad to provide prompt service as & when needed. Before you start driving the new electric vehicle, we strongly recommend to you, to understand the vehicle by going through the manual while simultaneously explore your "**POWER BIKE SERIES VEHICLE**" physically. Familiarization with the vehicle will help you to give long trouble free smooth easy ride.

**POWER BIKE SERIES** can be operated by inbuilt battery & can be recharged as & when required anywhere.

**POWER BIKE SERIES** - some of the outstanding features

**Eco Friendly, Noiseless, Pollution free, Easy to ride, Maintenance Free.**

Our Electric Battery Operated Two Wheeler Vehicle does not require any kind of conventional fuel like Petrol, Diesel, Gas etc. Nor it is provided with engine or gear boxes. Due to this reason, it provides **Pollution Free Easy Ride. No Leaks or Smell, Neat & Clean, Eco Friendly, Noise Free, Pollution Free, Easy to Ride, Maintenance Free, Green Vehicle, Minimum Running Expenses, Highly Comfortable, No Oil Filling or Standing in Queues For Refilling Fuel. It is an Environment Friendly Vehicle.** Battery can be recharged as & when required. Maximum consumption of power per recharge for **POWER BIKE SERIES** is of Of 1 unit or E power. One unit of E P cost us at present Rs. 5.00 to 7.50 i.e. Cost of Single recharge is Rs.5.00 to Rs. 7.50 only. 1 unit of Electric Power Each Recharge gives 40 Kms to 60 Kms. ride under standard norms and conditions depending upon vehicle. All the Models are auto start. Most of the Models are fitted with paddle facility, which is very smooth & easy to operate.









1. Safety & General Information
2. Identification Mark
3. Understanding to use the vehicle
4. After Driving
5. Regular Check Up
6. Precautions
7. Technical Specifications
8. Common Trouble and trouble shooting
9. Warranty Certificate

# 1 SAFETY & GENERAL INFORMATION

**Power Bike** 

- a. **To start the vehicle:** - Insert the key in the key hole & turn to "ON" position. The vehicle is in start position. On turning the Throttle (acceleration) the vehicle moves forward.
- b. Always start the vehicle slowly. This will help to obtain better milage & to stop overloading the electric components & motor from damage.
- c. To avoid damage to the controller, please increase the speed gradually.
- d. **Charging the battery:** - Below 250W 5 hours. Above 250W 6 hours after complete discharge of the battery.
- e. Battery charger should be kept in airy, ventilated & uncovered atmosphere while the battery is being charged to prevent the charger from damage.
- f. While the battery is being charged by battery charger take care to see that any kind of liquid is not spilled over it.
- g. Use appropriate battery charger provided with the vehicle to charge the battery. It may cause damage to charger or battery, if used otherwise.
- h. Always check the battery discharge level while the vehicle is in motion.

- i The battery charger is working on 220V AC power supply only. Ensure right power supply before plugging the battery charger.
- j Always insist to get the service or repair of vehicle to be done by authorized dealer or person only. Our responsibilities ceases if found man-handled by unauthorized person or agency.
- k If any kind of irregular unwanted noise comes from the motor while the vehicle is in motion, stop the vehicle & go through the manual or approach the dealer or appropriate person.
- l Please observe proper functioning of brake light while the vehicle is in motion & brakes are applied. This is necessary to ensure proper alignment of brake & power cut off to the motor.
- m Vehicle when kept in ideal position for a long time, please ensure recharging the battery before starting the vehicle. This helps to keep the vehicle in ideal position & avoid damage cause to all electric & electronics parts

## 2 IDENTIFICATION MARK

- a. Chassis Mark: -  
This mark is printed on the handle bar of the main chassis near the ignition key lock.  
The mark are typed vertically as follows  
These marks are identification of your vehicle.
- b. Motor Mark: -  
This mark is printed on the surface of the motor which is situated on the rear wheel  
of the vehicle. This is printed to identify each particular unit

- a. Electric battery operated vehicle is unique in itself then other fuel operated vehicle. It works on the principal of stored electric energy rather than generated energy. As the stored energy has got a limit, the vehicle also faces similar limit before each recharge. If proper care is taken to recharge the battery after proper discharge limit, as shown in the manual, it gives you long trouble free service.
- b. If instructions are followed correctly this vehicle is the simplest vehicle in driving. Just turn the key to "ON" position, turn the throttle (acceleration) anti-clock wise & the vehicle is in motion giving easy, smooth & noise, pollution free ride. You do not have to bother about gears, engine, silencer & other such parts. To bring the vehicle to stand still position is also as easy as its working. Just turn the acceleration in clock-wise direction, apply brakes, it automatically cuts off the power & stops the motor, which helps the vehicle to come to stand still position.
- c. Regularly check proper functioning of brake light, battery level, side light function, & battery charger. Try to keep the vehicle neat, clean & in good condition to give you long easy trouble free service. Please try to follow instruction given in the manual book. If any abnormal noise from the vehicle is noticed while the vehicle is in motion please try to find out from where it is coming & if possible rectify it immediately. If you do not understand the cause of the above trouble please try to go through the tips provided in the manual book or get in touch with proper authority & we assure they will give you satisfactory service.

- d. Please do not try to over-burden the vehicle by placing more weight than the standards provided for the vehicle. This alternately creates over burden on motor, controller & battery, due to which the vehicle will not give average running before each recharge.
- e. Do not keep the vehicle in watery area for a long time. This may cause damage to electric parts. While you are charging the battery with proper battery charger please provide sufficient ventilation to charger so that it may not get over heated. Do not cover, or place the charger in damp, wet area when in use
- f. The horn switch is on the left hand side, while the light switches are on the right hand side. Side ignition light switch is on the right hand side, In some vehicles we have provided extra set of batteries to give long ride before each recharge. Try to get familiar with its working & charging positions. Two separate compartments have been provided for each set, & each set has its own charging plug. Please check witch set requires charging before plugging for recharge.
- g. A common key set is provided for locking unlocking the vehicle, Starting the vehicle & for glove room compartment. We have even provided a tool kit with necessary tools to ensure your trouble free voyage.
- h. This is a leisure bike giving you good service. Please do not use it as racing vehicle to make a road show. Un-necessary racing the bike will reduce the milage per recharge & will cause un avoidable load on it electric parts & hence it may cause damage.

## 4 AFTER DRIVING

- a. As soon as you get down from the vehicle please try to note down kms. you have traveled during the journey, if you have traveled to the maximum limit before recharge, plug the battery charger to recharge the battery before second use.
- b. Keep the vehicle in dry airy atmosphere to get best performance from all electric parts.
- c. The battery charger should be kept in open un covered & dry area while the battery is being charged to avoid over heating of charger & cause damage.
- d. Please see that the battery is charge only for the stipulated time fixed for the vehicle so as to avoid over charging. This precaution helps in receiving best battery life & protects battery charger from over heating & damage.
- e. Try to keep the vehicle neat clean & dry to ensure best services for a long time.
- f. Before you start the vehicle, please check proper functioning of the vehicle by starting the vehicle on its stand. Check the lights, working of brakes, side light indicator functions, & motor

## 5 REGULAR CHECK-UP

- a. Before starting the vehicle check the battery level.
- b. Always start the vehicle on its stand position first to check its prominence.
- c. Check all light's working, specially brake light & sound of the motor & verify its proper working performance
- d. When the brake is applied to the vehicle check whether motor stops. This device is fitted to give vehicle good result & avoid overloading the motor. This process can be visualise by checking the proper working of brake light.
- e. Check the air in the tyre tube to give you good results
- f. Check the condition of the battery charger after & before every recharge.
- g. Please try to maintain battery charging within its proper level to provide you satisfactory service.
- h. Always recharge the battery by the specific battery charger provided for the vehicle only.
- i. Always recharge the battery to its stipulated time only. Take care & avoid over charging as it causes damage to battery & battery charger.

## 6 PRECAUTIONS

- a. Stop the vehicle in case any un-necessary sound is heard from the motor when in motion
- b. Take care from battery being overcharged.
- c. Always maintain required air pressure in tubes tyres.
- d. Always keep the battery charger in open dry & airy place when in charging mode.
- e. Check the battery level daily before using the vehicle.
- f. Keep the vehicle in dry place when not in use.
- g. Take care to see that the vehicle is not overloaded.
- h. Use the battery charger (provided with the vehicle) to charge the battery. do not try to use any other charger to charge the battery.
- i. Please take care to note, brake lights on as soon as they are applied. This is of utmost necessary to brake the power supply to the motor.
- j. In case of two sets of battery vehicle, try to utilize each set to its specific limit before each recharge, to give you its maximum value.

### Power Bird

Dimension(mm): Length 1750\* Breadth 640  
Drive Power Alteration: Lead acid sealed Jelly Battery  
Battery: 12V / 20Ah\* 4pcs  
Input Voltage(v): 240V Ac power  
Output Voltage(v): 48V  
Charge Period(hrs): 7 Hours  
Motor Alteration : Dc Brushless Motor  
Motor Power Alteration(w) :800W  
Rated Voltage(v): Dc 48V  
Wheel Base(mm): 1220mm  
Protecting Voltage(v): 41.5±0.5V  
Climbing Capacity: 7°  
Tyre Front/rear : 300-10/300-10  
Brake Device: Front- hand operated  
Rear- foot operated  
Hand operated

Speed: 40kmph  
Range: 40kms.  
Rated Load: 100kgs.  
Net weight (kg): 75kgs.  
Gross weight (kg): 200kgs.

Color: Optional



### Power Ride

Dimension(mm): Length 1880\* Breadth 700  
Drive Power Alteration: Lead acid sealed Jelly Battery  
Battery: 12V / 20Ah\* 3pcs  
Input Voltage(v): 240V Ac power  
Output Voltage(v): 36V  
Charge Period(hrs): 6 Hours  
Motor Alteration : Dc Brush less Motor  
Motor Power Alteration(w) :Below 250 Watts  
Rated Voltage(v): Dc 36V  
Wheel Base(mm): 16 x 2.125  
Protecting Voltage(v): 31.5±0.5V  
Tyre Front/rear : 16 x 2.125  
Brake Device: Front- rubber pad rim  
Rear- drum type  
Speed: 20kmph  
Range: 40kms.  
Rated Load: 75kgs.  
Net weight (kg): 65kgs.  
Gross weight (kg): 130kgs.

Color: Optional



### Power Fuel

- Dimension(mm): Length 1750\* Breadth 710
- Drive Power Alteration: Lead acid sealed Jelly Battery
- Battery: 12V / 20Ah\* 4pcs
- Input Voltage(v): 240V Ac power
- Output Voltage(v): 48V
- Charge Period(hrs): 6 Hours
- Motor Alteration : Dc Brush less Motor
- Motor Power Alteration(w) : Below 250 Watts
- Rated Voltage(v): Dc 48V
- Wheel Base(mm): 16 - 3.0
- Protecting Voltage(v): 31.5±0.5V
- Tyre Front/rear : 16 - 3.0
- Brake Device: Front- drum type  
Rear- drum type
- Speed: 20kmph
- Range: 40kms.
- Rated Load: 75kgs.
- Net weight (kg): 60kgs.
- Gross weight (kg): 135kgs.
- Color: Optional



### Power Byke-180

Dimension(mm): Length 1700\* Breadth 640  
Drive Power Alteration: Lead acid sealed Jelly Battery  
Battery: 12V / 12Ah\* 3pcs  
Input Voltage(v): 240V Ac power  
Output Voltage(v): 36V  
Charge Period(hrs): 5 Hours  
Motor Alteration : Dc Brushless Motor  
Motor Power Alteration(w) :180W  
Rated Voltage(v): Dc 36V  
Wheel Base: 22"  
Protecting Voltage(v): 31.5±0.5V  
Tyre Front/rear : 22 x 1.75  
Brake Device: Front- rubber pad on rim  
Rear- drum type  
Speed: 20kmph  
Range: 40kms.  
Rated Load: 75kgs.  
Net weight (kg): 40kgs.  
Gross weight (kg): 115kgs.

Color: Optional



## 8 Common Trouble and trouble shooting

**Power Bike** USA

No:	Trouble phenomenon	Trouble reason	Method of repairing
1	Speed adjusting device failure or max speed decrease	<ol style="list-style-type: none"><li>1. Voltage is too low</li><li>2. Speeding adjusting handlebar broken</li><li>3. Spring of speed adjusting handlebar lock or failure</li></ol>	<ol style="list-style-type: none"><li>1. Recharge</li><li>2. Contact supplier</li><li>3. Contact supplier for the spring replacement</li></ol>
2	Switch on power while the hub of electromotor does not work	<ol style="list-style-type: none"><li>1. Battery wire is not hard up</li><li>2. Speed adjusting handlebar broken</li><li>3. Socket of the hub is not hard up or broken</li></ol>	<ol style="list-style-type: none"><li>1. Re-connect</li><li>2. Re-weld and clamp</li><li>3. Seek help from technician or the service station</li></ol>
3	Charge follow-up enough to sail mileage once only	<ol style="list-style-type: none"><li>1. Insufficient tire pressure</li><li>2. Undercharge or charger failure</li><li>3. Battery is aging or shattered</li><li>4. strong upwind, continual grade climbing, frequently brake and start</li></ol>	<ol style="list-style-type: none"><li>1. Pump enough air</li><li>2. Check the connection of charger's plug or have it replaced by the supplier.</li><li>3. Charge the battery</li><li>4. Under such circumstance, manpower cycling support is recommended</li></ol>
4	Charger failure	<ol style="list-style-type: none"><li>1. The charger socket breaks off or the connection of plug and socket loosens</li><li>2. The fuse is burned-out3. Battery group wiring breaks off</li></ol>	<ol style="list-style-type: none"><li>1. Fasten the socket and plug</li><li>2. Change the fuse3. Weld the connecting wire</li></ol>
5	Other troubles	<ol style="list-style-type: none"><li>1. When troubles can not be settled or judged by the above guidance</li><li>2. The fuse is burned-out3. Battery group wiring inner failure of hub, controller charger and battery</li></ol>	Please seek help from your supplier or service station and never try to open above devices or you will lose your warranty.

# Warranty Certificate

**Power Bike** 

Serial Number: \_\_\_\_\_

This is to certify that the below mentioned vehicle is under WARRANTY Coverage.  
This Contract is valid for period of 6 months from the date of delivery.

## Vehicle Information

Model : \_\_\_\_\_ Registration No : \_\_\_\_\_  
Colour : \_\_\_\_\_ Motor No. : \_\_\_\_\_  
Date of Delivery : \_\_\_\_\_ Chasis No. : \_\_\_\_\_  
Battery Specification : \_\_\_\_\_

## Customer Details

Name : \_\_\_\_\_  
Address : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Telephone : (O) \_\_\_\_\_ (R) \_\_\_\_\_ Mobile \_\_\_\_\_

Remarks :

- (1) The **Co.** does not under take any warranty of electrical parts such as battery charger, controller, lights, bulbs, horns
- (2) The **Co.** does not under take any warranty if the vehicle is man handled or serviced by un authorised person or agency.
- (3) Customer should follow instruction given in the manual. If the vehicle is found to be utilized in wrong way, warranty ceases.
- (4) The warranty is covered for motor & battery.

The above mentioned Vehicle has been purchased by me/us, and I /We have taken delivery on \_\_\_\_\_ and I have read, understood and agreed to the terms and conditions of the Warranty Policy as detailed in this document & manual.

Date :

Remarks :

\_\_\_\_\_  
Customer's signature

First Free  
Service

# 1st Free Service



REGN NO \_\_\_\_\_

MOTOR NO \_\_\_\_\_

SERVICED ON \_\_\_\_\_



DEALER'S SIGNATURE  
& STAMP

OWNER'S NAME \_\_\_\_\_

JOB NO \_\_\_\_\_ VEHICLE REGN NO \_\_\_\_\_

SELLING \_\_\_\_\_ SOLD ON \_\_\_\_\_  
DEALER COD

SERVICING \_\_\_\_\_ SERVICED ON \_\_\_\_\_  
DEALER CODE

Trade & Transport Pvt. Ltd

KMS

CUSTOMER'S SIGNATURE

NOTE: Replacement of parts & accessories are at customer's expense.

Second Free  
Service

# 2nd Free Service



REGN NO \_\_\_\_\_

MOTOR NO \_\_\_\_\_

SERVICED ON \_\_\_\_\_



DEALER'S SIGNATURE  
& STAMP

OWNER'S NAME \_\_\_\_\_

JOB NO \_\_\_\_\_ VEHICLE REGN NO \_\_\_\_\_

SELLING \_\_\_\_\_ SOLD ON \_\_\_\_\_  
DEALER COD \_\_\_\_\_

SERVICING \_\_\_\_\_ SERVICED ON \_\_\_\_\_  
DEALER CODE \_\_\_\_\_

Trade & Transport Pvt. Ltd

KMS

CUSTOMER'S SIGNATURE

*NOTE: Replacement of parts & accessories are at customer's expense.*

Third Free  
Service

# 3rd Free Service



REGN NO \_\_\_\_\_

OWNER'S NAME \_\_\_\_\_

MOTOR NO \_\_\_\_\_

JOB NO \_\_\_\_\_ VEHICLE REGN NO \_\_\_\_\_

SERVICED ON \_\_\_\_\_

SELLING \_\_\_\_\_ SOLD ON \_\_\_\_\_

DEALER COD

SERVICING \_\_\_\_\_ SERVICED ON \_\_\_\_\_

DEALER CODE



Trade & Transport Pvt. Ltd

KMS

DEALER'S SIGNATURE  
& STAMP

CUSTOMER'S SIGNATURE

*NOTE: Replacement of parts & accessories are at customer's expense.*