

YOTSUBA MOTO
ヨツバモト

ミャウ

Meow

Electric bike for kids



Instruction manual and warranty information

Thank you for purchasing Yotsubamoto "Meow".

Please store this instruction manual and warranty form in a safe place for the duration of possession of the product, as this manual describes the setup, method of use, storage method of the product, etc.

1. About Yotsubamoto

"Yotsubamoto" is an electric motorcycle designed for children is a sister bike to our bicycle "Yotsuba cycle".

This product "Meow" is designed especially first time riders of motorcycles, assuming the riders can ride kick bikes (run bike, push bike).

As for bicycle riders there is no problem with an inexperienced rider.

Please start practicing in a safe and flat area.

Be sure to wear a helmet.

We recommend wearing long-sleeved shirts, long pants, boots, and elbow knee protector.



Warning

Yotsubamoto is a vehicle similar to competition motorcycles.

Please do not ride on public roads.

General public roads (road prescribed by the Road Law, motorway defined in the Road Operating Act, and other places used for general traffic) or places where people and cars can freely enter and exit are also regarded as general roads.

2. Check included items

Components required for assembly are contained in the box.

*Fig. Meow12



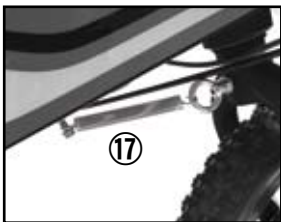
- | | | |
|------------------|---------------------------------|---------|
| ① Body | ⑥ Seat | ⑪ Decal |
| ② Handle | ⑦ Front locking nut and bracket | |
| ③ Front wheel | ⑧ Key | |
| ④ Foot peg shaft | ⑨ Foot peg lock screws | |
| ⑤ Foot peg | ⑩ Charger | |

* The tools used for assembly and adjustment are not included. The minimum necessary tools are as follows.

- Spanner, box wrench 8 mm, 10 mm, 15 mm, 18 mm (19 mm also substitute)
- Hex wrench 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm
- No. 2 Phillips screw driver
- Bicycle air pump

3. Parts description

*Fig. Meow12



- ① Frame
- ② Fork
- ③ Throttle
- ④ Front brake lever
- ⑤ Rear brake lever
- ⑥ Front brake
- ⑦ Front wheel
- ⑧ Motor cable & cover

- ⑨ Handle stem
- ⑩ Seat
- ⑪ Seat base
- ⑫ Quick release bolt
- ⑬ Foot peg
- ⑭ Rear wheel & hub motor
- ⑮ Main switch & indicator
- ⑯ Key
- ⑰ Steering support
- ⑱ Charging port

4. Assembly

Installation requires special knowledge and technique. Haphazard installation may cause accidents or failure. **Be sure to hand over to the customer after assembling and adjusting at the dealer.**

Also, this manual contains descriptions for daily inspection and adjustment, **please read through with a guardian or adult.**

① Front wheel mounting



Remove brake wire holder and release the brake.



Attach the front wheels to the forks. There is no distinction between left and right. Make sure that the bracket fits securely into the hole of the fork and lock it with the nut.



Loosen brake shoe nut, adjust the brake shoe so that it is in parallel with the rim, and set the wire to the holder again.

② Mounting the handlebar



Loosen the bolt and remove the stem clamp.



Align the handlebar and install the stem clamp. Please set the bar a little toward the rider.



Loosen the clamp bolt, align the steering wheel and lock it again.

③ Tire pressure



Pump air into the tires of the front wheel and the rear wheel. Use a small air inlet of the tip, or use an adapter like the one on the right side for easy operation. Recommended air pressure: 200 to 250 kPa

DRC air valve extension with hose

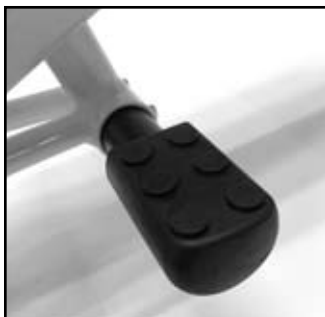
Part number: **D58-12-110**
Hose length: 150mm



④ Mounting the foot peg



Insert the foot peg as shown in the picture. If the insertion is stiff please turn while inserting.



Push the left and right foot peg covers in. Insert the foot peg to the end, adjust according to the shape, and make sure not to rotate.

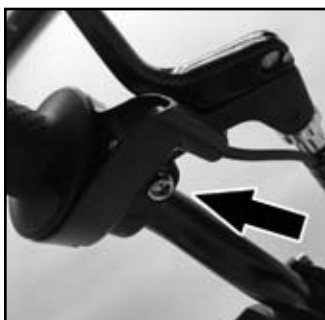


Confirm that the left and right sides of the foot peg are symmetrical, and lock with the screw.

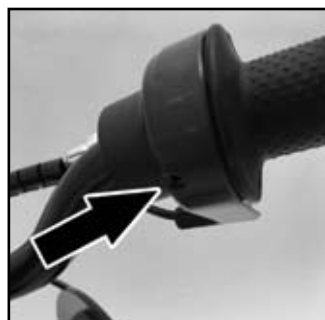
⑤ Adjust lever position (for left and right)



Rotate the screw to adjust the distance of the lever from the handlebar to match the size of the rider's hand. Clockwise rotation brings the lever position closer toward the handlebar.



Loosen the bolt to adjust the height of the lever. Please set it so that it is slightly lower than the horizontal, and fine-tune according to the taste of the rider.

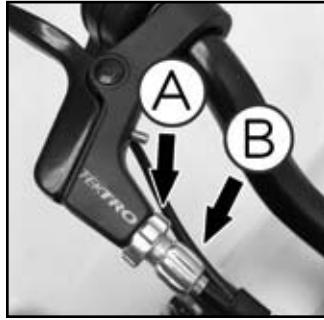


When adjusting the lever height, if the throttle cable and the lever interfere with each other, loosen the screw and rotate the throttle to set it in a position where it will not interfere.

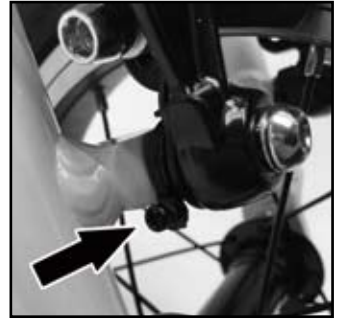
⑥ Adjust front brake



Loosen the wire locking nut, pull the wire, adjust the distance between the brake shoe and the rim to about 1 mm, and tighten the locking bolt.

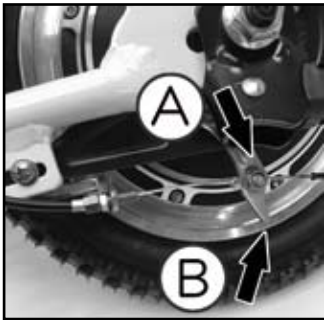


Loosen nut A and rotate B to fine tune the brake position. Turn clockwise to bring the brake closer to the rim, counterclockwise to set it further apart. After the position is set, tighten nut A.

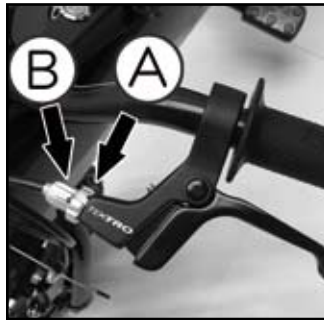


Hold the lever and check that the brake arm moves evenly on both sides. If there is bias, adjust with screws. Tightening the screw will strengthen the arm's spring.

⑦ Adjust rear brake

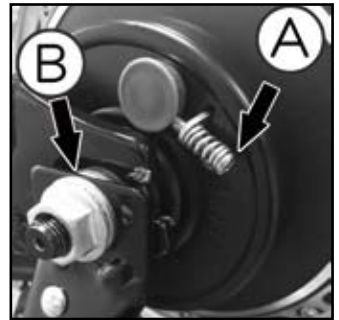


Loosen nut A, push brake arm B toward the front of the vehicle, pull the wire in that position, tighten nut A again.



Loosen nut A and rotate B to fine tune the brake position. Turn clockwise to bring the brake lever closer to the front, counterclockwise to set it further apart. After the position is set, tighten nut A.

***In the beginning, brake function may feel weak, but with use, it will gradually break in for full braking force.**



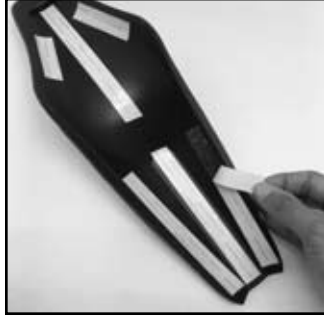
After gripping the lever several times, let the rear wheel spin. If you hear scratching sounds, tighten or loosen the screw A to find the point where the scratching sound disappears. If this does not stop the scratching sounds, loosen the nut B to the left and right, and adjust the inclination of the rear wheel. Tighten the nut at the position where no scratching sound is heard.

⑧ Installation of seat

*The rider straddles the seat without the cushion at the lowest seat height (⑨ reference) on the 12-inch model, when the height of the rider is 90 cm or less, or when the height of the rider is 100 cm or less in the 16 inch model. Please straddle the bike in this situation and check your feet, if your feet are just right in this position, the seat cushion cannot be used, please install at a later date according to the rider's physical growth.



Clean up the seat base surface.
Make sure the this area is free of oil
and dirt.



Peel off the double-sided tape on
the back of the seat cushion.

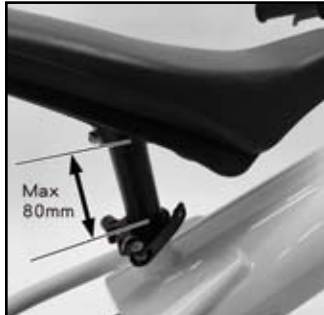


Attach seat cushion where the shape
of the rear end and the set cushion
matches.

⑨ Adjust seat height



Pull out the quick release lever to
open the seat post.



Adjust the seat to the proper height
by moving the seat up and down.
Please do not adjust to 80 mm or
more. Tightening becomes unstable
at this point and is dangerous.

6. Charge the battery

*Please turn the power off before charging.

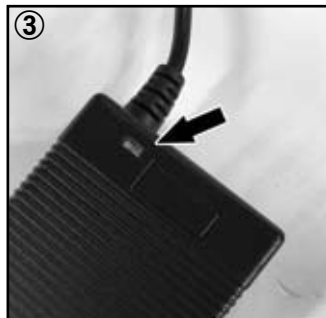


① Rotate the lid of the charging port on the bottom of the frame to open the port.



② First connect the charger connector to the charge port, then plug the charger into a household outlet.

*** Be sure to connect the connector on the body side first and plug it into the household outlet.**



③ The indicator light of the charger lights orange and charging begins. Charging is completed when the light color is green. The estimated charging time is 2.5 hours.



Warning

- Be sure to use the specific charger we provide.
- When charging outdoors please do so in shaded areas, and out of the rain.
- An overcharging prevention circuit is contained, but for safety reasons, please disconnect the charger as soon as charging is completed.
- When in storage for an extended period., please charge the battery to about half full and store it avoiding high temperature and humid areas.

7. Main switch & indicator

When the main switch is pushed in, the indicator lamp light shows that bike is ready for running. Explanation of the indicator.

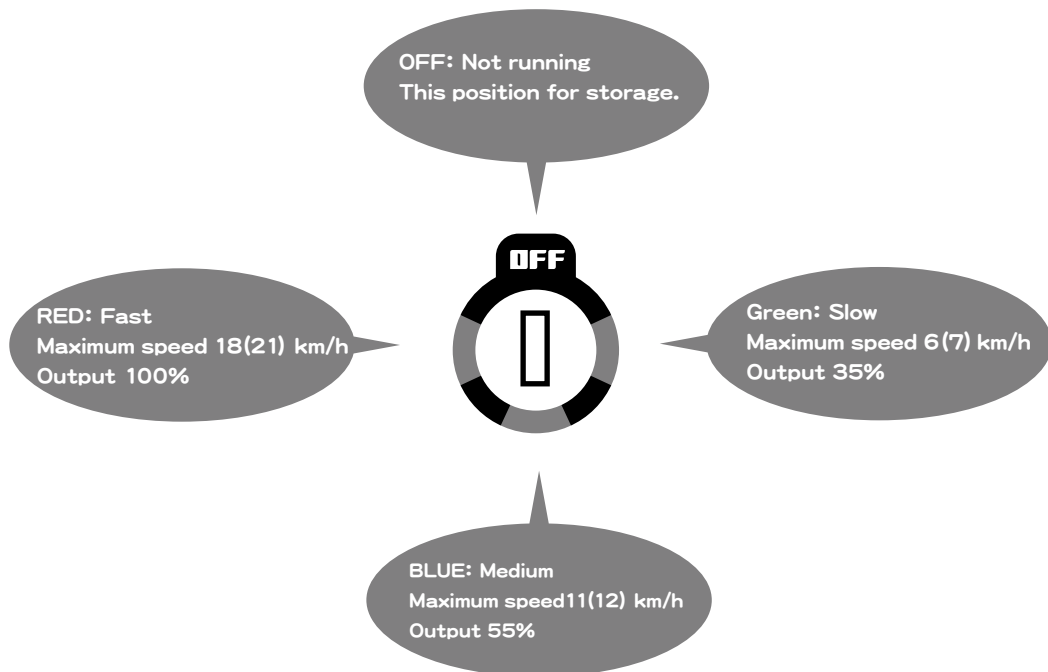
- ① Running light.....Battery level is 100% ~ 40%.
- ② Slow blink..... Battery level is about 40% or less.
- ③ Blink on a minute..... Tipping sensor is in operation.
- ④ Lights off..... No battery power.

8. Speed level key

By turning the key you can adjust the maximum speed and motor output in 3 levels.

Always make sure that a parent or guardian set the adjustments.

The explanation of the key position is as follows. Numbers in parenthesis () is the highest speed for Meow 16. It is possible to insert / remove keys in all the key positions.



Warning

- In order to prevent children riding alone, where there is no guardian present, please return key to the "Off" position after riding. Please remove the key and store the bike.
- The power adjustment key is not waterproof, please cover with the rubber cap to wash.
- The maximum speed is a rough guide. It is dependant on rider's weight and road conditions.

9. Inspection before riding

Before riding, the guardian should check the bike and check the safety.



- ① Front and rear brake work
- ② Power mode appropriate
- ③ Key unplugged
- ④ Key cover attached
- ⑤ Tire pressure ok
- ⑥ Seat secure enough
- ⑦ No rattling on steering
- ⑧ No loose screws
- ⑨ Lid of charging port closed
- ⑩ No wires are caught or damaged
- ⑪ Throttle rotates smoothly
- ⑫ Motor cable cover installed

10. How to operate

- ① Push the main switch and turn on the power. The main switch lights up.
- ② Insert driving mode key, select driving mode, then remove key.
- ③ When the throttle is turned toward the rider, the rear wheels will engage.
- ④ When decelerating, return the throttle to the starting point and squeeze the brake lever.
*If the rear wheel brake is strongly applied while the throttle is open, electricity is cut for motor protection.
- ⑤ On completion of riding, Insert driving mode key, select "OFF" mode, remove the key, turn off the power.



Warning

- Although the motor speed is regulated with the key, it is still very dangerous to accelerate rapidly on the descending slope.
- If riders are unfamiliar with brake operation, please practice in an area with no inclination.
- When engaging the side stand, there is a danger of pinching your fingers in the hinge. Please use your feet, or while wearing gloves, hold as far as possible down the tip of the stand.

11. Gyro Sensor

Yotsubamoto Meow has a sensor that automatically cuts power off on falling. Specifically, if it is inclined by about 45 degrees in the horizontal direction, it is judged to be in a falling state and electric power is cut. At that time, the indicator flashes on and off to indicate sensor operation.

Motor will not operate even if the bike is stood up with the throttle open after falling. Once the bike is standing, return the throttle to full close once to release the sensor. The bike can now be ridden normally.



Warning

- The Gyro sensor is effective only in the left-right direction. It is not affected in forward and backward rotation direction.
- When the bike is completely upside down, the sensor judges that the bike is standing and does not cut power. Therefore when the bike is stopped in the upside-down state, the rear wheels may continue to rotate.
- Parents or guardians should keep their eyes on the rider while riding.

12. Storage and care

- ① When rinsing the bike with a shower, please do so with the bike standing.
Please avoid washing bike in a state where the bike is laid down or upside down, and avoid high pressure washing.
- ② Heat speeds deterioration of the lithium ion battery. Please store indoors in cool area. Especially avoid storage in the bike during the summer season.
- ③ Throttle is a non-disassemble item.
If sand etc. gets in and it does not move smoothly, please consult your authorized dealer.
- ④ When in storage for an extended period, please charge the battery to about half full and store it avoiding high temperature and humidity areas. This will delay battery degradation.
- ⑤ When opening the bottom cover to remove water and sand, please do not insert / remove the battery connector which has the possibility of leading to a serious accident.
- ⑥ Do not allow oil such as wax to adhere to the brake. This leads to lower braking function.



Warning

- Since the motor is waterproofed, it can not be disassembled. Please do not disassemble. Maintenance is basically unnecessary due to the brushless motor.
- Never disassemble, penetrate, incinerate, crush, short circuit the battery.
Doing so may cause serious accidents such as a fire. Also, please do not store in areas where temperatures reach higher than 60 degrees.

13. If you think that there is a problem

Will not power on

- Battery low level.....Please charge.

Charging does not start (the lamp does not turn red)

- Charger cable missing plug.....Please check the insertion of the connector on each cable.
- False recognition of remaining battery power.....Please use the battery until the power indicator goes out, and try again.

Does not run

- Key is OFF.....Please select one of the positions "GREEN" ,"BLUE" ,"RED".
- Check motor cable.....Please check that there are no missing or insufficient plug in.

No speed

- Lack of tire pressure.....Please add air to the recommended tire pressure.
- Dragging of brake... Please adjust the brake so that the tire turns smoothly.
- Check throttle..... Please check inside of throttle for objects, crack etc. It may be interfering with the operation.

After confirming the above items, if the symptoms are not improved, the equipment may be faulty. If you repair it incorrectly, it may ignite or generate excessive heat because this being a lithium-ion-battery loaded device. Do not disassemble or repair the inside of the equipment yourself. Please contact your dealer or us.

14. Repair parts

Prices, specifications etc. of each part may be subject to change, so please check with your authorized dealer or us. Parts in bold, are parts that require replacement at a authorized dealer or our company.

Frame Decal Kit

YB65-00A1	RED	YB65-00A4	YELLOW
YB65-00A2	BLUE	YB65-00A5	ORANGE
YB65-00A3	GREEN	YB65-00A6	LIGHT BLUE

YB65-0215J	Battery charger
YB65-0230	Tire for 12 inch
YB65-0235	Tire for 16 inch
YB65-0250	Seat assy
YB65-0260	Number plate
YB65-0270	Step rubber (Left and right)
YB65-0280	Grip rubber (Left and right)
YB65-0290	Side stand for 12 inch
YB65-0291	Side stand for 16 inch
YB90-5010	Handle bar 500mm width
YB90-5300	Brake lever (Left and right)
YB90-4712	Tire tube for 12 inch
YB90-4716	Tire tube for 16inch

YB65-0211	Battery (Meow12/16)
YB65-0212	Motor for12inch
YB65-0213	Motor for 16inch
YB65-0214	Electric controler
YB65-0216	Gyro system
YB65-0217	Power switch
YB65-0218	Throttle Assy
YB65-0219	Motor control wire
YB65-0220	Charging port
YB65-0245	Rear brake Assy

15. Specification

Model	Meow12	Meow16
Length	1000 mm	1200 mm
Width	470 mm	490 mm
Height	590 mm	690 mm
Wheel base	710 mm	810 mm
Lowest seat height	375 mm	435 mm
Minimum under clearance	110 mm	175 mm
Caster angle and trail	25° 45 mm	25° 60 mm
Frame	AL6061	AL6061
Fork	AL6061	AL6061
Front suspension	Rigid	Rigid
Rear suspension	Rigid	Rigid
Front brake	V brake	V brake
Rear brake	Drum brake	Drum brake
Tire size	12×2.125	16×2.125
Weight	12.5Kg	12.0Kg
Max speed Fast/Medium/Slow *1	18/11/6.5km/h	21/12.5/7km/h
Motor	Brushless Hub Motor	Brushless Hub Motor
Battery	NMC lithium 24 V 3.5 Ah	NMC lithium 24 V 3.5 Ah
Rated output	200W	250W
Rated voltage	24V	24V
Charging time	About 2.5 hours	About 2.5 hours
Running time Fast/Medium/Slow *2	35min/70min/120min	35min/70min/120min
Acceptable body weight	45kg	45kg
Recommended age range	3 to 6 years old	5 to 8 years old

*1 Changes depending on the weight of the rider and the road condition.

*2 Changes depending on conditions such as rider's weight, road surface condition, inclination, temperature.

16. Product warranty

The manufacturer's warranty period of Yotsubamoto Meow is one year from the date of purchase.

Frame, fork, motor, wheel, sensor, switch, charging port, throttle, wiring, connector are subject to warranty.

*Battery and initial malfunction of charger will be subject to warranty, please contact authorized dealer.

*Consumables such as tires, brake shoes, and breakage due to overturning / wrong use are not included in the warranty. Also excluded if the bike is modified in any way.



Frame number

Warranty Claim FORM

Frame number
Name
Address
Phone
Authorized dealer
Address
Warranty period a year from month date year

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www.yotsubakids.jp