

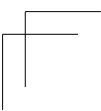
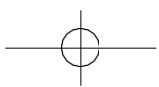
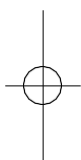
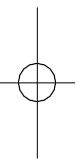
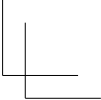
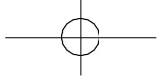
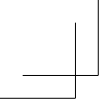


+Read this manual carefully before operating the system.
This manual should stay with this system if it is sold.

OWNER'S MANUAL

Display Unit X5M

- * This owner's manual is original instruction.
- * Product and specifications are subject to change without notice.



Introduction

These original instructions have been prepared for your Display Unit.

TIP

This manual is not intended as a comprehensive use, service, repair or maintenance manual. Please see your dealer for all service, repairs or maintenance. Your dealer may also be able to refer you to classes, clinics or books on bicycle use, service, repair or maintenance.

**Display Unit OWNER'S
MANUAL**
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1st edition, September 2025
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General warning

FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.

Particularly important information is distinguished in this manual by the following notations:

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	A NOTICE indicates special precautions that must be taken to avoid damage to the vehicle or other property.
TIP	A TIP provides key information to make procedures easier or clearer.

1. Electric bike components

A. Introduction

Bluetooth®



The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by YAMAHA MOTOR CO., LTD. is under license.

ANT+™



Featuring certified wireless ANT+™ connectivity.
Visit www.thisisant.com/directory for compatible products.

B. Use of your data

This is a brief summary of how Yamaha Motor Co., Ltd. (Yamaha Motor) uses your data from e-Bike Systems. For more details, please review our Privacy Policy <<https://global.yamaha-motor.com/privacy/>>.

What data Yamaha Motor collect? and How?

The e-Bike Systems on this bicycle collects following data:

- (1) Component identification number;
- (2) live data showing the performance of the bicycle such as Display Unit operating state, mileage;
and
- (3) other data showing the status of the bicycle such as Display Unit error code.

The collected data will be uploaded to server at Yamaha Motor Co., Ltd. only when special Yamaha diagnostic tool is connected to the bicycle at the time of maintenance check or service.

How will Yamaha Motor use your data?

Yamaha Motor use collected data from your e-Bike Systems for the following purpose:

- (1) to conduct adequate maintenance service including diagnostics;
- (2) to implement proper warranty claim judgement;
- (3) to conduct research and development;
- (4) to provide and improve quality of products, features, and services;
- (5) to ensure our business purpose; and
- (6) to comply with requirements of laws and regulations.

How Yamaha Motor disclose your data?

Yamaha Motor may make your data available with: (1) our subsidiaries, affiliates, and business partners; (2) dealers in your country or region, and (3) contractors within the scope necessary to achieve the purpose of use described above.

How long will Yamaha Motor retain your data?

Yamaha Motor will retain your data for the shortest period of time possible/the time necessary to achieve the above listed purposes.

How to contact Yamaha Motor

Any questions or complaints regarding the processing of your data can be submitted in writing to:

Yamaha Motor Co., Ltd.

Attn: Smart Power Vehicle Business Unit

2500 Shingai, Iwata, Shizuoka 438-8501, Japan

Email: dpo@yamaha-motor.co.jp

The SOLE PURPOSE of above provided contact information is TO RESPOND DATA PROCESSING INQUIRY AND OTHER KINDS OF INQUIRIES WILL NOT BE RESPONDED. Please provide the following information for the proper handling of your inquiry: **(1) Your Name; (2) Your Email Address; (3) Your Country of Residence; and (4) Your component identification number.** Yamaha Motor will use your personal information provided only for the purpose of supporting your data processing inquiry.

Temperature range

Operating temperature range	23–104 °F (-5–40 °C)
Charging temperature range	32–104 °F (0–40 °C)

C. Safety information

Do not modify or disassemble the e-Bike Systems. Do not install anything other than genuine parts and accessories. Doing so could result in product damage, malfunction, or increase your risk of injury.

Do not ride the bicycle if there is any irregularity with the e-Bike Systems. Doing so could lead to loss of control and serious injury.

Be sure to check the residual battery capacity before riding at night. The headlight powered by the Battery Pack will turn off soon after the residual battery capacity has decreased to where power assisted riding is no longer possible. Riding without an operating headlight can increase your risk of injury.

Do not start off by running with one foot on a pedal and one foot on the ground and then mounting the bicycle after it has reached a certain speed. Doing so could result in loss of control or serious injury. Be sure to start riding only after you are seated properly on the bicycle seat.

Do not use the walk assist if the rear tire is off the ground. Otherwise, the tire will turn at high speed in the air and you could be injured.

Do not use the wireless communication functions in areas such as hospitals or medical institutions where use of electronic equipment or wireless communication devices are prohibited. Otherwise, this could affect the medical equipment, etc. and cause an accident.

When using the wireless communication functions, keep the display at a safe distance from heart pacemakers in use. Otherwise, the radio waves could affect the heart pacemaker function.

Do not use the wireless communication functions near automatic control equipment such as automatic doors, fire alarms, etc. Otherwise, the radio waves could affect the equipment and cause an accident through possible malfunction or unintentional operation.

If any part of the e-Bike Systems becomes submerged in water due to flooding etc., immediately have your bicycle inspected and maintained by a dealer.

Do not put fingers or hands into the rotating parts such as wheels and chain. Also keep children away from the wheels and chain. They could be seriously injured.

D. Instrument and control functions

Display Unit (X5M)

Select button

Assist mode
switch (up)

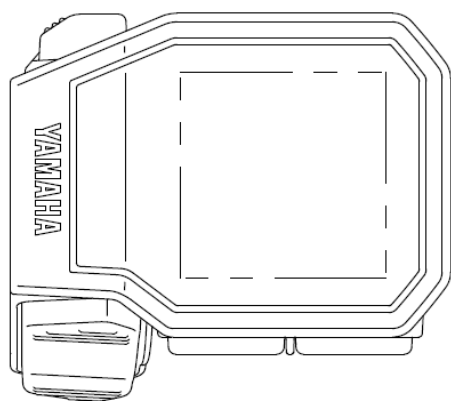
Assist mode
switch (down)

Light switch



Power switch





Display Unit (X5M)

The Display Unit offers the following operations and information displays.

NOTICE

This device complies with part 15 of the FCC Rules and contains licence-exempt transmitter/receiver that comply with Innovation, Science and Economic Development Canada's licence-exempt RSSs. Operations is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la partie 15 des règles de la FCC et comporte un émetteur/récepteur exempt de licence qui est conforme aux normes RSS d'exemption de licence de l'organisme Innovation, Science et Développement économique Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC ID : 2ADBKX5M
IC : 740A-X5M
PMN : X5M
HVIN : X5M
HMN : N/A
CAN ICES-3 (B)/NMB-3 (B)

Brand name : YAMAHA
Model no. : X5M
Manufacturer name : YAMAHA MOTOR CO., LTD.

MADE IN JAPAN

NOTICE

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices.)

FCC Radiation Exposure Statement:

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

Display Unit(X5M) has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The antennas used for this transmitter must be installed to provide a separation distance of at least 0.2 m (0.5 cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

IC Radiation Exposure Statement:

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

Display Unit(X5M) has been tested and found to comply with ICED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ICED radio frequency (RF) Exposure rules.

Déclaration d'exposition à la radiation:

Les connaissances scientifiques dont nous disposons n'ont mis en évidence aucun problème de santé associé à l'usage des appareils sans fil à faible puissance. Nous ne sommes cependant pas en mesure de prouver que ces appareils sans fil à faible puissance sont entièrement sans danger. Les appareils sans fil à faible puissance émettent une énergie fréquence radioélectrique (RF) très faible dans le spectre des micro-ondes lorsqu'ils sont utilisés. Alors qu'une dose élevée de RF peut avoir des effets sur la santé (en chauffant les tissus), l'exposition à de faibles RF qui ne produisent pas de chaleur n'a pas de mauvais effets connus sur la santé. De nombreuses études ont été menées sur les expositions aux RF faibles et n'ont découvert aucun effet biologique. Certaines études ont suggéré qu'il pouvait y avoir certains effets biologiques, mais ces résultats n'ont pas été confirmés par des recherches supplémentaires.

Display Unit(X5M) a été testé et jugé conforme aux limites d'exposition aux rayonnements ICED énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) ICN-102 de l' ICED.

E. Pre-operation check

WARNING

Be sure to perform the inspection before riding the bicycle.
If there is anything you do not understand or find difficult, please consult a bicycle dealer.

NOTICE

- If you confirm there is a fault, have your bicycle inspected at a dealer as soon as possible.
- The power assist mechanism consists of precision parts. Do not disassemble it.

Along with performing the regular inspection before riding the bicycle, also perform the following inspections.

No.	Inspection item	Inspection contents
1	Residual battery capacity	Is enough capacity left in the Battery Pack?
2	Installation status of the Battery Pack	Is it properly installed?
3	Operation of the e-Bike Systems	Do the e-Bike Systems operate when you begin moving?

F. Cleaning and maintenance

NOTICE

Do not use high-pressure washers or steam jet cleaners since they can cause water seepage, resulting in property damage or malfunction of the Display Unit. Should water get inside one of these units, have a bicycle dealer inspect your bicycle.

Do not clean with alcohol or other chemical detergents since they can cause cracks and damage the Display Unit.

Clean the Display Unit using a soft cloth dampened only with water.

G. Disposal

The Display Unit and packaging should be sorted for environmental-friendly recycling.
Do not dispose of the bicycle or its components as household waste.

H. Specifications

Display Unit

X5M	Wireless communication portion	Communication range	Line-of-sight distance approx. 3 ft (1 m) without interference	
		Frequency band	2.4 GHz band (2.400–2.4835 GHz)	
		Modulation method	GFSK	
		Communication system	Bluetooth version 5.0 (Bluetooth low energy technology)	ANT+
		Output power	3.44 dBm	3.41 dBm
		Supported profiles	YEP2.0 ^{*1}	S&C ^{*2} PWR ^{*3} LEV ^{*4}

^{*1} YEP2.0

The e-Bike profile preset by YAMAHA MOTOR CO., LTD.

^{*2} S&C (Speed and Cadence)

Corresponds to the wheel revolution data and crank revolution data.

^{*3} PWR (Power)

Corresponds to the crank revolution data, accumulated power, and instantaneous power.

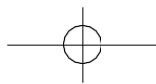
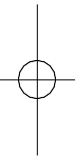
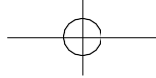
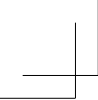
^{*4} LEV (Light Electric Vehicle)

Commands from the display are not supported.

Send the following data to the display.

(Travel mode, Temperature (Battery, Motor), Speed, Odometer, Remaining range, Fuel consumption, Battery %, Wheel circumference, Error code)

- Communication is not necessarily guaranteed with all wireless communication devices that have the same profiles as this system.
Even when a device complies with the specification for Bluetooth low energy technology, there may be cases where the characteristics, specifications, or communicative environment of the device with this technology make it impossible to connect, or may result in different control methods, display or operation.
- YAMAHA MOTOR CO., LTD. can not be held liable in any way for damages or other loss resulting from information leaks during the communication via wireless communication functions.





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