

Futaba

Ultra Response **UR**

Brushless Servo for EP CAR

BLS-CM600



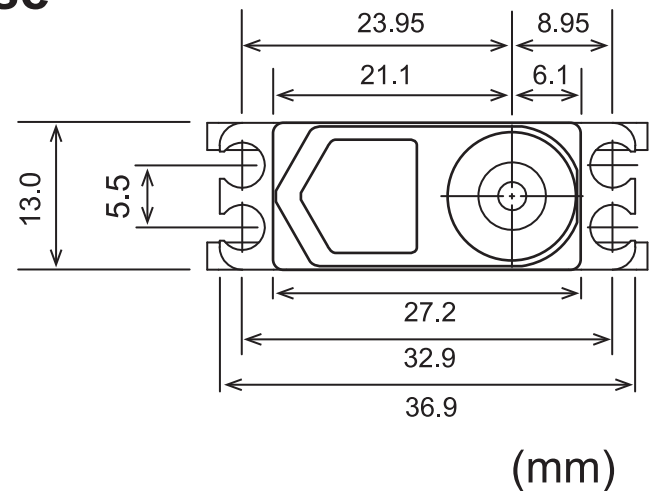
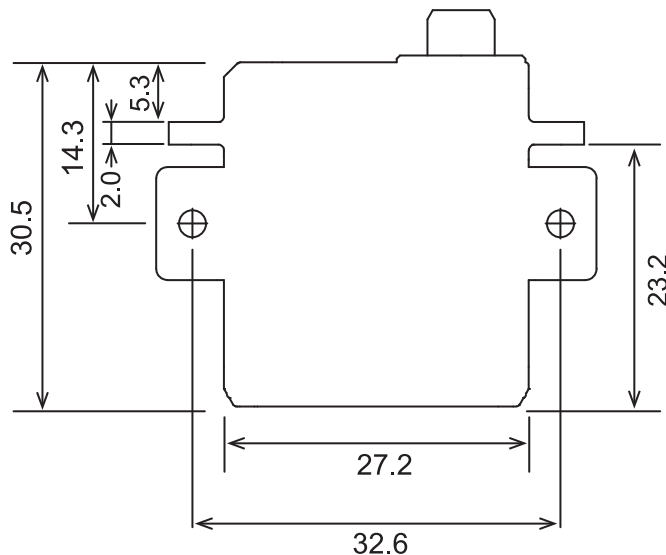
BRUSHLESS MOTOR

RATED VOLTAGE DC6.0V~7.4V

OPERATING VOLTAGE DC4.0V~8.4V

⚠ CAUTION

• **No dry battery use**



- Speed sec/60 ° 0.090 (7.4 V), 0.110 (6.0 V)
- Torque kgf-cm 6.7 (7.4 V), 5.4 (6.0 V)
ozf-in 93.0 (7.4 V), 74.9 (6.0 V)
- Size 27.2 x 13.0 x 30.5 mm (1.07 x 0.51 x 1.20 in)
- Weight 28.0 g (0.98 oz)

WARNING

- 1 Turn on the power in transmitter → receiver order. In addition, always check the operation of all the servos before use.
- 2 Do not use it for an engine model.
 - There is a danger of waking up loose connection, for a vibration peculiar to an engine model. Moreover, loose connection will be woken up if fuel is applied to a wiring junction.
- 3 Do not insert or remove the servo connector while the receiver power is ON.
 - Since the S.BUS2 servo switches the operation mode automatically according to the type of signal (S.BUS signal/PWM signal) from the receiver, if the connector is inserted or removed while the power is ON, an S.BUS connected servo will be incorrectly recognized and may stop.
- 4 Do not leave the servo in the locked state.
 - Leaving the servo in the locked state (state in which enough force is applied that the servo cannot move) may cause smoke, fire, and damage.
- 5 Never connect the battery in reverse.
 - Reverse connection may cause smoke, fire, and damage.
- 6 Do not expose the servo to dust and water.
 - The servo does not have a waterproof construction. If it gets wet, the servo may not operate or the power supply may short circuit.
- 7 When installing the servo, check PUSHROD LINKAGE to make sure there is no binding in order to prevent excessive power consumption and decrease the life of the motor and battery.

CAUTION

- 1 Do not touch the servo case immediately after servo operation.
 - You may be burned because the motor and circuits inside the servo become hot.
- 2 Do not turn the servo horn with unreasonable force.
 - The servo may be damaged.
- 3 Do not disassemble or modify the servo.
 - The servo has a precision construction. Futaba Corp. will not be responsible for any disassembly or modification other than those specified by us.
- 4 Do not drop the servo or expose it to strong shocks or vibrations.
 - It will damage with a shock.
- 5 Use the servo as an actuator in hobby applications.
 - Futaba will not be responsible if the servo is used in applications other than the above.

Futaba will not be responsible for damage, etc. caused by the use of parts other than Genuine Futaba parts.

Power supply

Use the battery as specified. Use a battery or a voltage regulator with an ample margin as the power supply. The specified performance cannot be displayed with a dry cell battery. Even if using a receiver setting with the BATTERY FAIL SAFE function, it may not operate correctly. Therefore, decide the safe number of uses by paying careful attention to the remaining battery capacity.

System use

For full performance, 2.4GHz system is recommended. Use this servo with car receiver only. This servo cannot be used with air receiver.

Programming function(P.G.)

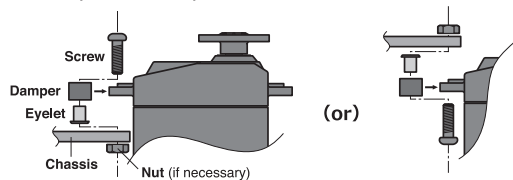
This servo has Programming function. It's possible to have optimized settings for each car, the course condition and driver's taste. When you use a transmitter with an S.BUS setting function. By connecting a servo to the S.BUS setting connector of the transmitter, a program setup of a servo can be performed on the screen of a transmitter. Depending on a setup, a servo carries out vibration. If a servo continues carrying out vibration, it will break, please restore a setup.

Middle case flange

When cutting unnecessary flanges, be sure to use a scroll saw or similar tool. If you fold and cut it, the middle case may be damaged.

[Servo Mounting Precautions]

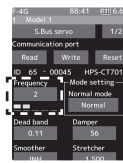
- Use attached dampers and eyelets correctly.



UR mode/SR mode

Ultra Response (UR)/Super Response (SR) system increases processing speed to further improve response. Faster response in UR mode than in SR mode. To change the servo setting for using UR (SR) Mode, UR (SR) compliant Transmitter and Receiver is required. Refer to the distributor web site for information on UR (SR) compatible devices. Please update the software of UR/SR compatible Transmitter and Receiver to the latest version. The latest software is available on our distributor's website.

About the Frequency of S.BUS servo setting



Hunting occurs when the frequency is high in S.Bus servo settings.

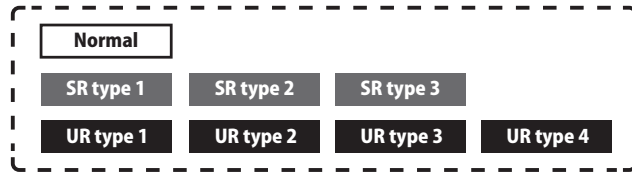
Servo is hunting → Lower the Frequency

UR mode setting change procedure :T10PX example

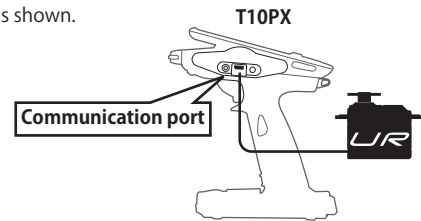
The initial setting of the UR servo is normal mode.

To use it in UR mode, you need to switch to UR mode by following the steps below.

The following modes can be selected for the UR servo.

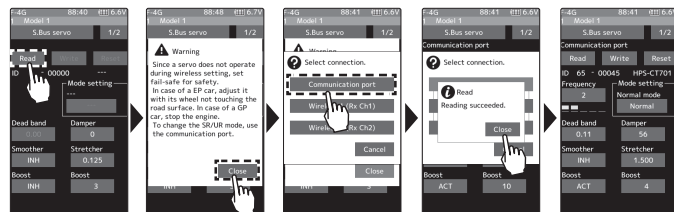


1. Connect the UR servo as shown.

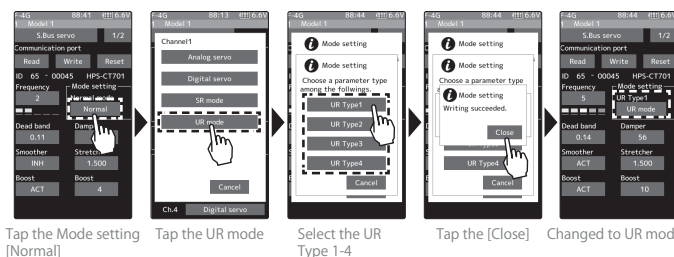


2. Turn on T10PX and call Menu → Accessories Menu → S.Bus servo screen.

3. Read the connected UR servo data into the T10PX.



4. Change to UR mode, select UR type, and write data to the connected UR servo.



5. Remove the UR servo from the transmitter. It can be used as a servo in UR mode.

*The transmitter must be a UR capable transmitter and set to UR mode.

*Mark the servo so that it is not mistaken for normal, UR, or SR.

