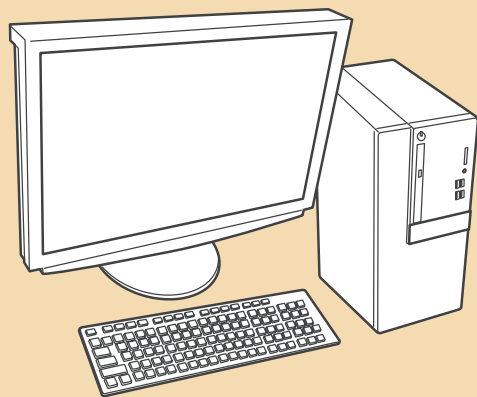# T6PV Software Update Method

Whenever improvements and new functions are available, the software of your T6PV radio transmitter can be updated easily via online free of charge. The updated software file will be shown on our website. You can download it and make a copy on your microSD card. Below is the procedure for the software update.

Required for update (Purchase separately)

PC
(Access is possible by the web)

microSD card

Note: Be careful not to allow the transmitter to reach low battery during the update.

Note: During the software update, the model data that is stored in the T6PV should be kept without any change. (NOT erased and NOT changed.) However, for your safety, making a backup of your model data before the software update is highly recommended.
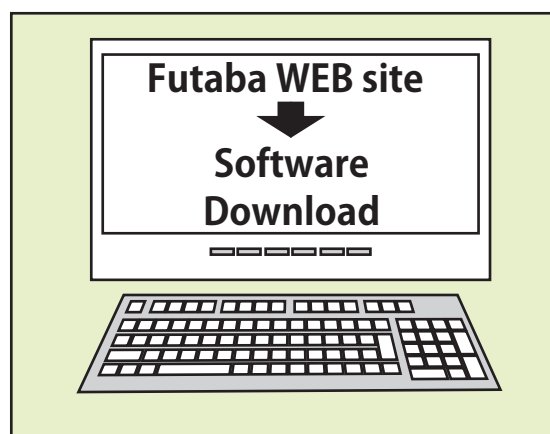
Updating procedure

1. **Download the zip file of the update data from our website or your local distributor's website.**

   https://futabausa.com/

2. **Extract the zip file on your computer.**

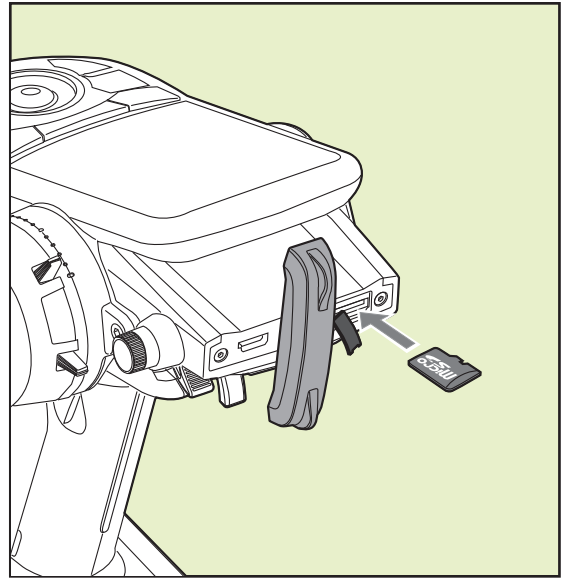3. **Insert the micro SD card into the PC and copy the FUTABA folder expanded on the PC to the micro SD card.**

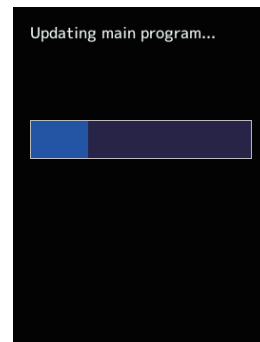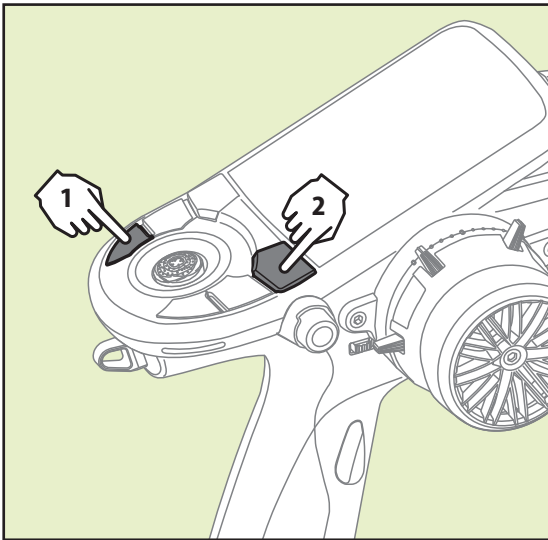   **If you already have a microSD card FUTABA folder, overwrite it.**

Futaba WEB site
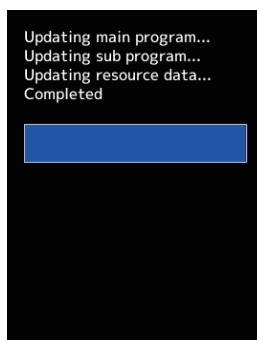⬇
Software Download

FUTABA ➡️

4. Insert the micro SD card with the copied FUTABA folder into the T6PV.

5. Turn on the transmitter power while pressing down the "END" button. The update screen appears on the LCD display of your T6PV and the software update is started.

Updating main program...

6. When the software update is completed, "Completed" message is shown on the LCD display of your T6PV. (Show below picture.)

Updating main program...
Updating sub program...
Updating resource data...
Completed

Possible Problems

When one of the error messages shown below appears on the LCD screen your T6PV, the software update will not be completed.

"Low battery."

Software update is postponed because of low battery. Retry the software update after the battery is recharged.

"Update file not found."

The T6PV cannot find the update file on the microSD card. Check to be sure all the update files have been copied onto the microSD card.
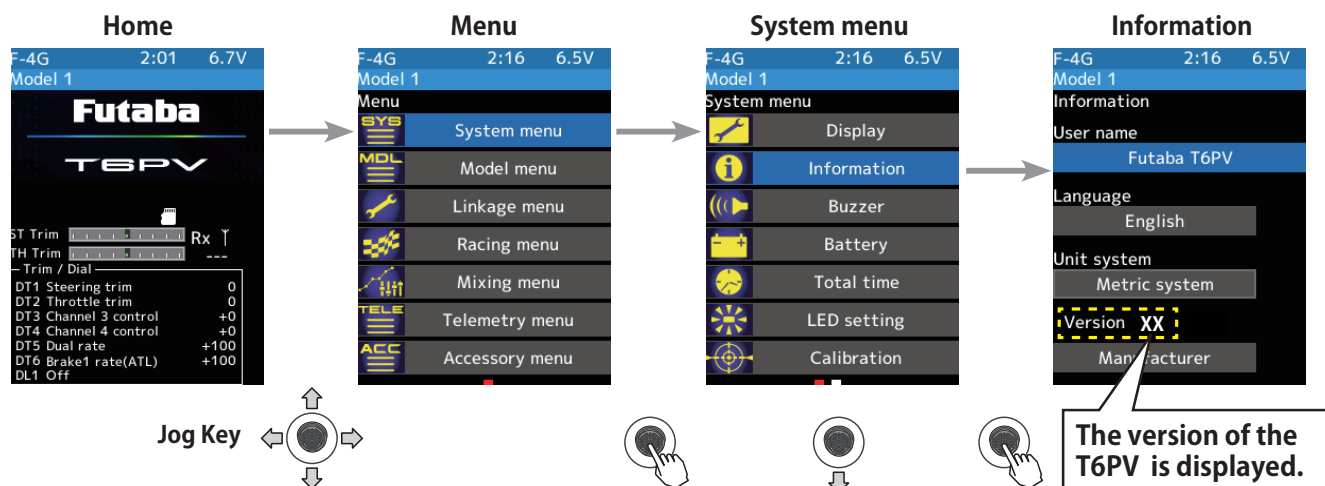
"Broken file."

The T6PV detects the update file error. The update file may be broken or for another transmitter.
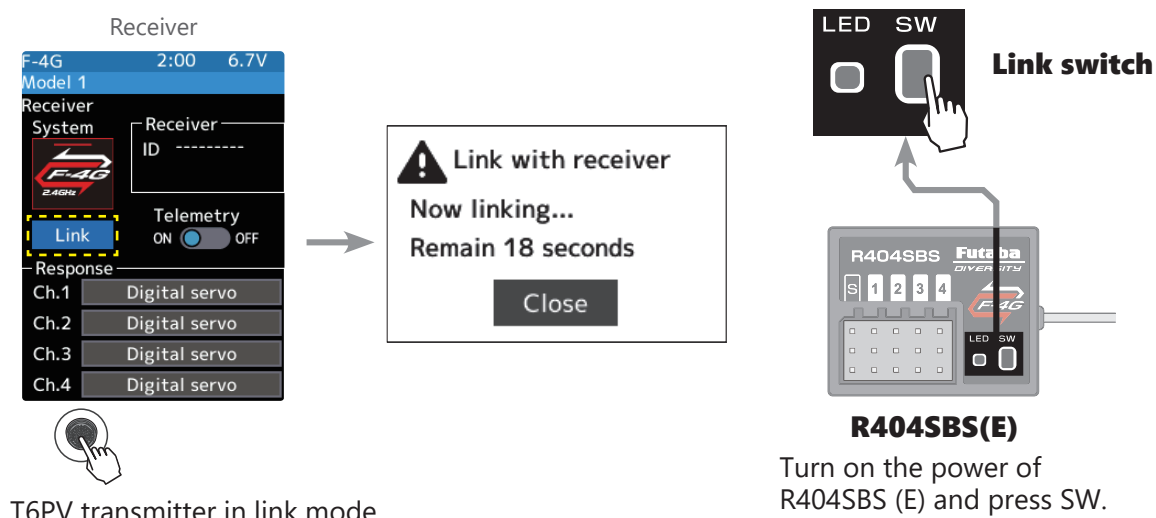
"Write error."

The software update procedure is stopped for an unknown reason. Contact your local service center when this error message appears on the LCD screen of your T6PV.
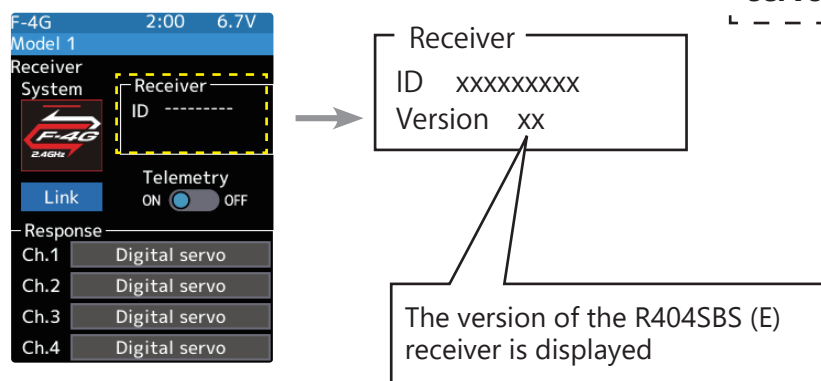
7. Turn off the power of T6PV.

T6PV Version check

Home

F-4G 2:01 6.7V
Model 1

Futaba
T6PV

ST Trim ⬚⬚⬚⬚⬚⬚ Rx ⊺
TH Trim ⬚⬚⬚⬚⬚⬚ ---
Trim / Dial
DT1 Steering trim   0
DT2 Throttle trim   0
DT3 Channel 3 control   +0
DT4 Channel 4 control   +0
DT5 Dual rate   +100
DT6 Brake1 rate(ATL) +100
DL1 Off

Jog Key ⬅ ⊙ ➡
            ⬆ ⬇

Menu

F-4G 2:16 6.5V
Model 1
Menu
SYS   System menu
MDL   Model menu
       Linkage menu
       Racing menu
       Mixing menu
TELE   Telemetry menu
ACC   Accessory menu

System menu

F-4G 2:16 6.5V
Model 1
System menu
🔧   Display
ℹ   Information
((())   Buzzer
🔋   Battery
🕐   Total time
☀   LED setting
◎   Calibration

Information

F-4G 2:16 6.5V
Model 1
Information
User name
     Futaba T6PV
Language
     English
Unit system
     Metric system
Version XX
     Manufacturer

The version of the T6PV is displayed.

R404SBS(E) Version check

Receiver

F-4G 2:00 6.7V
Model 1
Receiver
System   ┌Receiver┐
          ID ---------
F-4G
2.4GHz   Telemetry
Link   ON ◯ OFF
Response
Ch.1   Digital servo
Ch.2   Digital servo
Ch.3   Digital servo
Ch.4   Digital servo

T6PV transmitter in link mode.

⚠ Link with receiver
Now linking...
Remain 18 seconds
Close

LED SW

Link switch

R404SBS Futaba
DIVERSITY
S 1 2 3 4 F-4G
LED SW

R404SBS(E)

Turn on the power of R404SBS (E) and press SW.

┌─────────────────────────────────┐
│ **When using the UR servo, ensure it is**
│ **Ver2.0 or later.**
│ **Ver1.0 cannot be set wirelessly for UR**
│ **servo, so upgrade to Ver2.0 or later.**
└─────────────────────────────────┘

F-4G 2:00 6.7V
Model 1
Receiver
System   ┌Receiver┐
          ID ---------
F-4G
2.4GHz   Telemetry
Link   ON ◯ OFF
Response
Ch.1   Digital servo
Ch.2   Digital servo
Ch.3   Digital servo
Ch.4   Digital servo

┌─Receiver─────────┐
│ ID   xxxxxxxxx   │
│ Version   xx   │
└──────────────────┘

The version of the R404SBS (E) receiver is displayed

T6PV Software Update

$$\boxed{\textbf{Ver.2.0}}$$

1. Compatible with HPS-CD701, S-CD400, S-C401

HPS-CD701, S-CD400, S-C401 have been added to the UR mode / SR compatible servos.

*For S-CD400 and S-C401, only UR1 can be used in UR mode. UR2, UR3, UR4 cannot be used.

***Frequency** cannot be set for S-CD400 and S-C401.

*When S-CD400 and S-C401 is set to UR1 mode, the upper limit of **Stretcher** setting value is **4.000**.

2. Changing the REAL TIME ICS MiniZ parameter settings
Kyosho MINI-Z EVO2 Receiver Unit V2(82046)

The following two points have been changed in the throttle item of the REAL TIME ICS MiniZ parameter settings.

● **[FWD punch] Change the setting value from 0~10 to 0~100 (1 step)**

● **[Motor Timing] Change the setting value from 0~8 to 0~7**

3. Compatible with GYD560 and GYC480

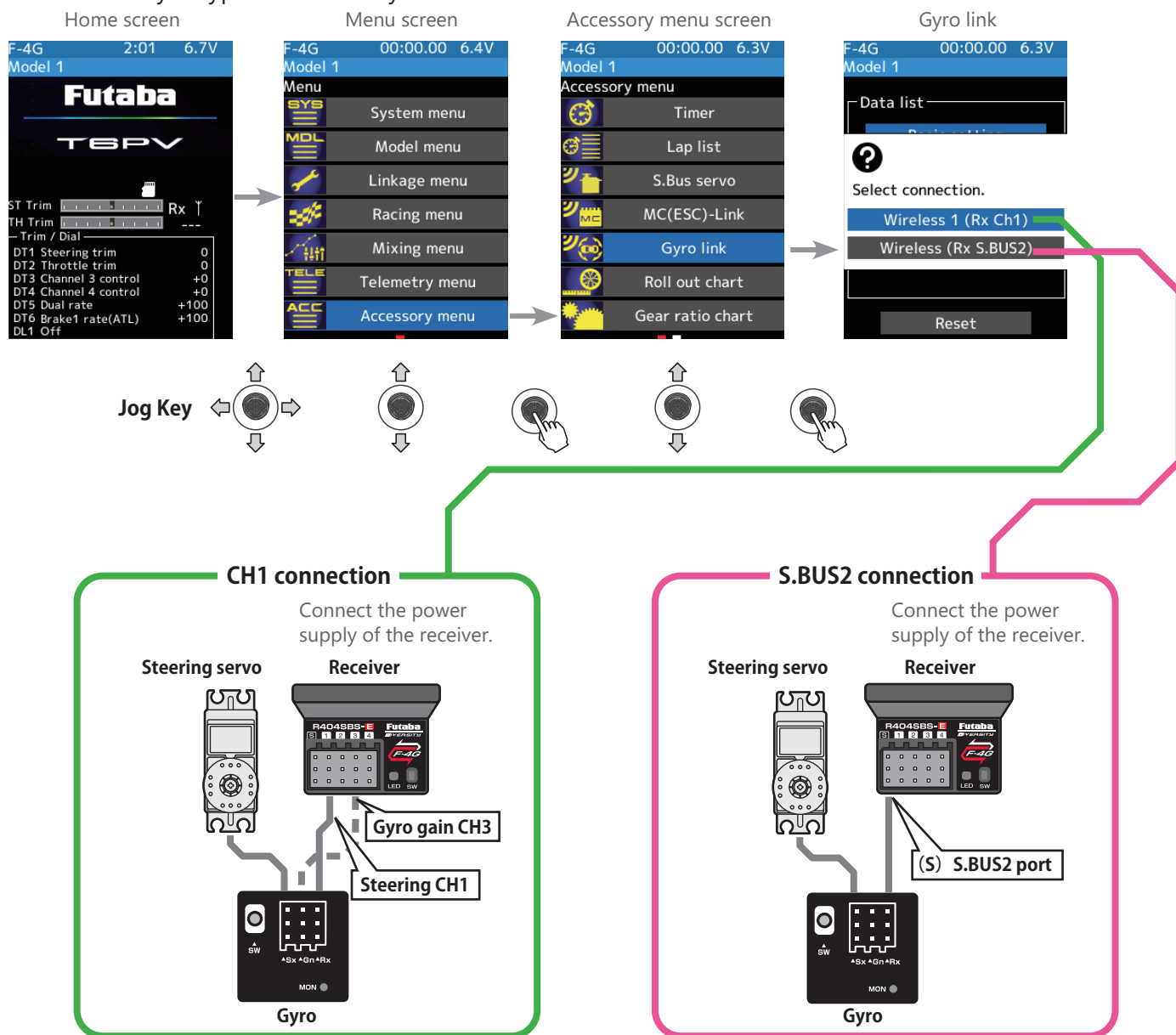Wireless parameter settings for the GYD560 and GYC480 car gyros can now be made using the transmitter. *Wireless settings are only supported on the T6PV(Ver.2.0~) and T10PX(Ver.14.0~) F-4G systems (R404SBS series Ver.3.0~).

GYD560 and GYC480 setting

1 Move the jog key to call up the menu. Next, use the jog key to select the [Accessory menu] and press it. Use the jog key to select [Gyro Link] and press it.

2 (Gyro read)

When you open the Gyro Link screen, the connection method selection screen is displayed. Select and press the jog key according to the connection method between the gyro and receiver. The Gyro type and currently set contents are read.

Home screen | Menu screen | Accessory menu screen | Gyro link

Jog Key

CH1 connection

Connect the power supply of the receiver.

Steering servo **Receiver**

Gyro gain CH3

Steering CH1

Gyro

S.BUS2 connection

Connect the power supply of the receiver.

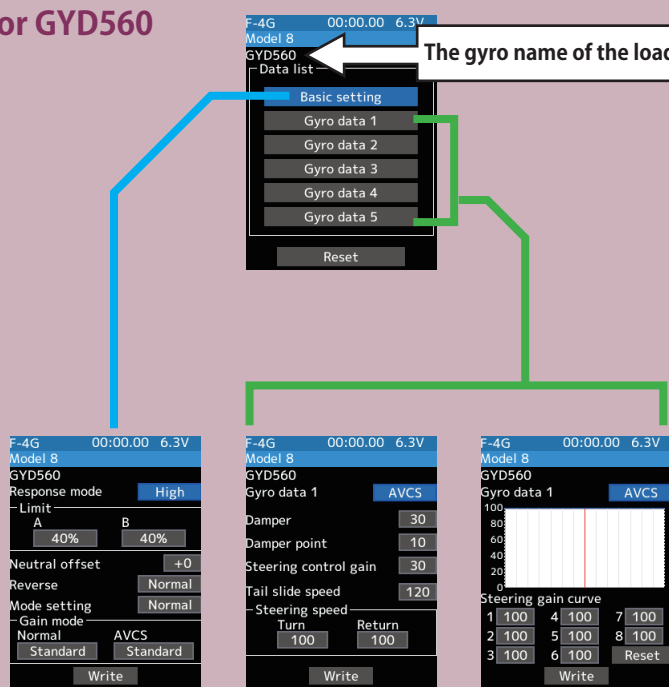**Steering servo** **Receiver**

(S) S.BUS2 port

Gyro

3 (Set up the gyro)

The gyro setting data is divided into the Basic setting and Gyro data (1 to 5) screens and displayed by the method shown on the next.

- When the S.BUS connection is not used, the gyro data switching function cannot be used, so only [Gyro data 1] is displayed.

For GYD560

The gyro name of the loaded gyro is displayed.

For GYC480

Basic setting

Response mode
Gyro sensor response setting.

* Low → Middle → High speeds up response.
* In high mode, using the dead band angle is too small, the servo will work continuously, but there is no problem in running. However, if strong the servo will work continuously occurs, set to middle or low mode.

Limit
Adjustment function of maximum steering angle.

* Operate the steering and adjust the left and right separately so that the maximum steering angle is obtained as long as the tires do not interfere with the arms.
* If the adjustment value of the limit is small (the maximum steering angle is not adjusted), it becomes easier to spin.
* During limit adjustment, the steering angle is amplified by 1.5 times, but this is not a malfunction. However, perform drive after completing the limit adjustment.

Neutral offset
Neutral adjustment function of the steering servo.

* Do not use transmitter trim and sub trim. Make the neutral setting with a gyro.

Reverse
Gyro control direction setting.

* If the car is turned to the left by hand steering goes out on the right.

Mode setting
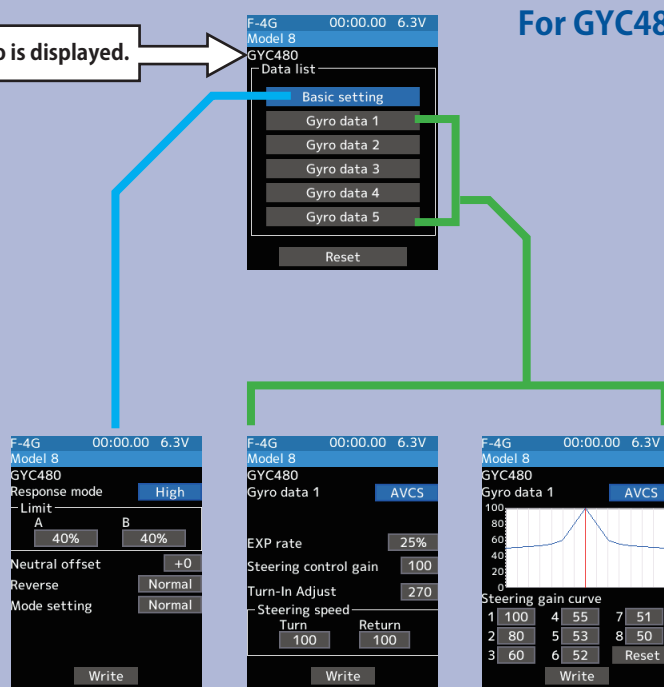Normal ⇔ UR ⇔ SR mode settings

* Set mode setting to UR/SR only when using UR/SR mode with UR/SR compatible servos.

Gain mode
Gyro internal control gain switching.

* High gain is 1.5 times more sensitive than standard gain.
* Normally set to standard.
  Set to high gain if increasing the sensitivity setting of the transmitter to the maximum value is not enough.

Basic setting

Response mode
Gyro sensor response setting.

* Low → Middle → High speeds up response.
* In high mode, using the dead band angle is too small, the servo will work continuously, but there is no problem in running. However, if strong the servo will work continuously occurs, set to middle or low mode.

Limit
Adjustment function of maximum steering angle.

* Operate the steering and adjust the left and right separately so that the maximum steering angle is obtained as long as the tires do not interfere with the arms.
* During limit adjustment, the steering angle is amplified by 1.5 times, but this is not a malfunction. However, perform drive after completing the limit adjustment.

Neutral offset
Neutral adjustment function of the steering servo.

* Do not use transmitter trim and sub trim. Make the neutral setting with a gyro.

Reverse
Gyro control direction setting.

* If the car is turned to the left by hand steering goes out on the right.

Mode setting
Normal ⇔ UR ⇔ SR mode settings

* Set mode setting to UR/SR only when using UR/SR mode with UR/SR compatible servos.

Gyro data 1/2

AVCS and normal mode change button

The AVCS / NORMAL modes setting.

The gyro has 2 operating modes: NORMAL mode and AVCS mode.
In the AVCS mode, gyro control is firmer.
* The feel of operation is different, choose your favorite mode.
* NORMAL: The driver needs to perform counter-steer ➤ Operation opposite to the turn direction.

Damper

Hunting suppression

The higher the value, the stronger the hunting suppression. However, it will feel like the servo response has worsened.

Damper point

Adjust the servo response due to the effect of the damper against the gyro effect.

* The smaller the value, the stronger the influence of the Damper and the slower the servo speed.
* The higher the value, the slower the Damper will operate and the better the response, but the more likely it is that hunting will occur.

Steering control gain

Adjustment of intervention ratio of steering operation to gyro control.

When the numerical value is increased, the steering operation of the driver is largely reflected.
* The steering response feels fast.

Tail slide speed

Adjust the speed of the tail slide (shake the tail) when driving.

* Decreasing the numerical value decreases the speed of the tail slide, and increasing the numerical value increases the speed.
* Effective for adjusting the tail slide amount during steering operation.

Steering speed

The function to adjust servo speed for steering operation (same the function as servo speed of the transmitter).

* The smaller the value, the slower the servo speed.

Gyro data 2/2

Steering gain curve

Mixing to increase or decrease gyro gain in response to steering input. Eight points of gain can be set up to the endpoint based on neutral.

* It is set in conjunction with left-right symmetry.
* Tap [Reset] to initialize the settings.

*GYD560 has an increased amount of information, it takes longer to read and write data than the GYD550.

Gyro data 1/2

AVCS and normal mode change button

The AVCS / NORMAL modes setting.

The gyro has 2 operating modes: NORMAL mode and AVCS mode.
In the AVCS mode, gyro control is firmer.
* The feel of operation is different, choose your favorite mode.
* NORMAL: The driver needs to perform counter-steer ➤ Operation opposite to the turn direction.

EXP rate

Steering exponential adjustment function

This function makes the operation near neutral quicker or smoother by operating the steering wheel.

Steering control gain

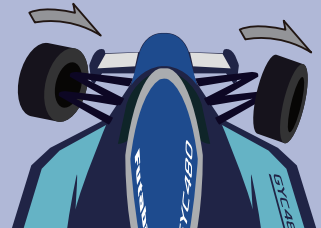Adjustment of intervention ratio of steering operation to gyro control.

When the numerical value is increased, the steering operation of the driver is largely reflected.
* The steering response feels fast.

Turn-In Adjust (AVCS only)

Adjust the turn-in speed to adjust turning ability.

* A smaller number will slow down the turn-in speed, a larger number will make it faster.

Steering speed

The function to adjust servo speed for steering operation (same the function as servo speed of the transmitter).

* The smaller the value, the slower the servo speed.

Gyro data 2/2

Steering gain curve

Mixing to increase or decrease gyro gain in response to steering input. Eight points of gain can be set up to the endpoint based on neutral.

* It is set in conjunction with left-right symmetry.
* Tap [Reset] to initialize the settings.

---

4 (Writing to Gyro)

Execute this function to write the setting data to the Gyro.

Press jog key the setting item [Write] on both the Basic setting screen and the Gyro data screen. After "Write Please wait" is displayed, an electronic sounds and writing ends. Be sure to write after changing the settings.

The write button is not displayed for the limit settings and neutral offset settings because the changed data is written to the gyro every time the setting value is changed.

- If "Failed" is displayed on the screen, communication with the gyro has not been performed normally. Check receiver, gyro and battery connections, transmitter and receiver power switches, and repeat [Write].