

Frequency Hopping Spread Spectrum

3PV-2.4G 3(+1) channel, T-FHSS Radio control system for Cars

INSTRUCTION MANUAL





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Safety Precautions

For your safety as well as that of others, please read this manual thoroughly prior to installation and operation of your digital proportional R/C system.

Definition of Symbols

The following defines the symbols used in this manual.

Explanation of Symbols

\wedge	DANGER	Procedures which may lead to a dangerous condition and cause death or serious injury to the user if not carried out properly.
⚠	WARNING	Procedures which may lead to a dangerous condition or cause death or serious injury to the user if not carried out properly, or procedures where the probability of superficial injury or physical damage is high.
\wedge	CAUTION	Procedures where the possibility of serious injury to the user is small, but there is a danger of injury, or physical damage, if not carried out properly.

Explanation of Graphic Symbols

- Indicates an operation that prompts a warning (including Caution).
- \bigcirc Indicates an operation that must not be performed.
- Indicates an operation that always must be performed.

2.4GHz System Precautions

Do not cover/hold the built-in antenna part of T3PV-2.4G transmitter by your hand during running. Do not put any conductive plate/sticker on the antenna part. Otherwise, the operating range may become shorter.

Do not perform the linking procedure when motor's main wire is connected or the engine is operating as it may result in serious injury.

While the linking is done, please cycle receiver power and check if the receiver to be linked is really under the control of the transmitter to be linked.

0

Always use receiver rechargeable battery or regulated output from your ESC. Using dry cell batteries may cause malfunction.

Be sure that when using an ESC's regulated output, the capacity of the ESC meets your usage condition.

0

In order to maintain complete control of your car/boat it is important that it remains visible at all times. Running behind large objects is not suggested. Doing so may result in the reduction of the quality of the radio frequency link to the model.

Operation Precautions

0

When using a rechargeable battery to power your system, always charge and check the battery voltage prior to operation. Should the battery discharge below the minimum voltage level, control will be lost.



Prior to operation always perform a range test. Even one abnormality in the R/C system may cause loss of control.

[Range Test Procedure]

Never operate in the rain or run through puddles.

Do not operate when visibility is limited.

Do not operate near people or roads.

Have a friend hold the model, or place it on a stand where the wheels or prop cannot come in contact with any object. Operate from a distance of about 100 feet. Be sure to check the movement of each servo to make sure it follows the movement of the steering wheel and throttle trigger. If the servos do not follow the commands from the transmitter or any type of interference is detected, Do Not operate the model.

The transmitter, receiver, batteries and most servos and speed controls are not waterproof. Contact with any type of moisture or immersion in water or snow will cause damage along with possible loss of control. Should any type of moisture enter any component of the system, immediately

stop using the R/C system and return it to our service center for inspection.

Should you lose sight of the model, a collision or other dangerous situation may occur.



Storage and Disposal Safety Precautions

At the end of a day's operation, store the system with NiCd battery discharged. Be sure to recharge the system before it is used again.

You should fully discharge your system's batteries periodically to prevent a condition called "memory". For example, if you only make two runs in a day or you regularly use a small amount of a battery's capacity, the memory effect can reduce the actual capacity even if the battery is charged for the recommended amount of time.

Do not throw a battery into a fire. Do not disassemble or attempt to repair a battery pack. Overheating, damage and acid leakage may lead to burns, loss of eyesight as well as numerous other types of injuries. The electrolyte in batteries is a strong alkali. Should you get even the smallest amount of the electrolyte in your eyes, Do Not rub. Wash immediately with water, and seek medical attention at once. The electrolyte can cause blindness. If electrolyte comes in contact with your skin or clothes, wash with water immediately.

Do not leave the radio system or models within the reach of small children.

A small child may accidentally operate the system. This could cause a dangerous situation and injuries. Batteries can be very dangerous when mishandled and cause chemical damage.

Do not store your R/C system where it will be exposed to the following conditions.

- Extreme heat or coldness
- Direct sunlight
- Where humidity is high
- Where vibration is prevalent
- Where dust is prevalent
- Where there is steam and condensation

Storing your R/C system under adverse conditions could cause deformation and numerous other problems with operation.



If the system will not be used for a long period of time, remove the batteries from the model and store in a cool, dry place.

If the batteries are left in the model, electrolyte may leak and damage the model.

<Battery Recycling>

A used battery is valuable resource. Insulate the battery terminals and dispose of the battery by taking it to a battery recycling center.

Other Safety Precautions

0

When operating two or more models at the same time, have a third person act as a spotter. They will be in charge of safety and you should follow their instructions.



Beginners should receive instructions regarding safety and operation from an experienced modeler.



Always use only genuine Futaba transmitters, receivers, servos, and electronic speed controls, along with other optional parts and components.

Futaba will not be held responsible for damages caused by other than genuine Futaba parts and components. Use only genuine Futaba parts and components listed in the instruction manual and catalog.



Do not short circuit the battery terminals.

Short circuiting the terminals will lead to sparks and overheating and could cause a fire and burns as well.



Do not expose plastic parts to fuel, motor spray, waste oil or exhaust.

The fuel, motor spray, waste oil and exhaust will penetrate and damage the plastic.

<Battery Electrolyte>

The electrolyte in batteries is a strong alkali. Should you get even the smallest amount of the electrolyte in your eyes, DO NOT RUB. Wash immediately with water and seek medical attention at once. The electrolyte can cause blindness. If electrolyte comes in contact with your skin or clothes, wash with water immediately.



System Contents

After opening the container, check the contents for the following items. The contents will vary with the system purchased.

	3PV-2.4GHz System Contents		
Transmitter	T3PV-2.4G (x1)		
System	T-FHSS/S-FHSS/FHSS		
Receiver	R203GF or R304SB or R314SB (x1)		
System	S-FHSS/FHSS T-FHSS T-FHSS		
Miscellaneous Mini Screwdriver			

NOTE: This Futaba T-FHSS/S-FHSS/FHSS system, including the T3PV-2.4G transmitter, does not work with current Futaba FASST[™] systems. Futaba FASST[™] systems and T-FHSS/S-FHSS/FHSS system are not compatible.



Telemetry System

R314SB/R304SB is T-FHSS, telemetry system can use it. R203GF is S-FHSS/FHSS, telemetry system can't be used.

Default Telemetry System

Receiver voltage display

SBS-01V (Voltage sensor ; Option) can be used. Connect SBS-01V to S.BUS2 port of a receiver. Wiring connection a EXT line of SBS-01V to the battery.



*When connecting SBS-01V, the receiver battery voltage isn't indicated.

*When indicating the EXT voltage, wiring connection work is needed. Please refer to a manual of SBS-01V.

*The start slot number of the SBS-01V has to be "6" of a default.

*T3PV can't use other telemetry sensors.

^{*}Indication only of the EXT voltage of the SBS-01V.



Battery Replacement Method



When Using The Optional Battery

When using an optional rechargeable battery, replace the battery as described below.

-The type of power source used must be set by system setting. -When the transmitter will not be used for a long time, remove the battery.

Optional battery









Receiver and Servo Connection

As you connect the receiver, servos and other components, do so in accordance with the "Assembly Precautions".



Installation When An Electronic Speed Control Is Used

Installation For Gas Powered Models



Receiver Antenna Installation



Assembly Precautions

0	Check the receiver, servos, and battery connectors, to be sure they are firmly connected. If a connector is not fully inserted, vibration may cause the connector to work loose while the model is operating. This will result in loss of control.	
0	Operate each servo horn over its full stroke and check to see that the linkage does not bind or is not too loose. Excessive force applied to the servo horn by binding or poor installation may lead to servo problems and result in loss of control.	
0	 (Electric Cars and Boats) Isolate the receiver from vibration by attaching to the chassis or mounting plate with thick double sided tape. (Gas Powered Cars and Boats) Isolate the receiver from vibration by wrapping it in foam rubber or similar type cushioning material. Protect the unit from water damage by placing it in a plastic 	
	bag or waterproof radio box. The receiver contains precision electronic parts. These parts are vulnerable to vi- bration and shock. Any contact with moisture (water or condensation) may cause receiver malfunction and loss of control.	
0	Keep all devices that emit high frequency noise, such as motors, batteries, and wiring that handles heavy current loads, at least 1/2 inch away from the receiver and the receiver antenna. High frequency noise will cause a decrease in operating range and could cause loss of control.	
0	Install electronic speed control heat sinks as well as other components that conduct electricity so they cannot come in contact with aluminum, carbon fiber or other materials that conduct electricity. If, for example, the speed control came loose while the model was running and touched an aluminum chassis, a short circuit may occur that would cause irrepa- rable damage to the system as well as loss of control.	
0	Noise suppression capacitors should be installed on almost all motors. If the proper capacitors are not installed, high frequency noise will reduce range and cause loss of control along with various other problems.	
0	Inspect all linkage installations and any point where metal could come in contact with other metal parts. Make sure these parts do not touch other metal parts under vibration. Should a linkage or other metal parts come in contact with other metal parts under vibration, the high frequency noise generated by this contact will cause interference and possible loss of control.	
	AUTION	



Do Not disassemble any part of this system that is not specified in the instruction manual.

Futaba will not be responsible for any damage due to improper disassembly of any part of the radio control system.

How to Link

Each transmitter has an individually assigned, unique ID code. In order to start operation, the receiver must be linked with the ID code of the transmitter with which it is being paired. Once the link is made, the ID code is stored in the receiver (T-FHSS; and transmitter) and no further linking is necessary unless the receiver needs to be used with another transmitter. (For T/R set, the link is already done at factory.)

Link procedure S-FHSS/FHSS (R203GF)





2

Turn on the transmitter and the receiver.





4 When the link is complete, the LED in the receiver changes to solid green. *Please refer to the table below for LED status vs receiver's condition.

LED status vs receiver's condition:

No signal reception	LED : OFF
Receiving signals	LED: Green ON
Receiving signals, but ID is unmatched	LED: Green Blink

Link procedure T-FHSS (R304SB/R314SB)

- Bring the transmitter and the receiver close to each other, within 20 inches (half meter).
- LED Link Switch





Turn on the transmitter.



Turn on the receiver.

*Link is required when a new model is made from a model selection.

5 During countdown, push and hold the receiver tact switch. The LED will begin to blink red. After the receiver LED switches from blinking red and green → red steady light, release the tact switch of the receiver. If the receiver LED lights green, linking was successful. Also check servo operation.

*Please refer to the table below for LED status vs receiver's condition.

LED status vs receiver's condition:

No signal reception	Red : On	
Receiving signals	Green: On	
Unrecoverable failure (EEPROM,etc.)	LED: Red and Green turn on alternately	

Transmitter Set-Up Procedures

*When making these setting adjustments, do so with the motor disconnected or the engine not running.

(Preparations)

Select the model memory that is not used and reset it to the initial values with the model selection and model reset functions.



2



Servo Horn Installation Instructions

Connect the receiver, servos, and other components and then turn on the power switches to the transmitter and receiver. *Both servos will move to the neutral position.

At this time install the servo horn in the manner described in the instruction manual provided with the model this system will be used in.

Reversing The Servo Operation Direction

Should the servo operate in the opposite direction required for your application. reverse the direction with the servo reversing.





E.S.C. MC231CR / MC331CR **NEUTRAL, HIGH, AND BRAKE MAX POINTS SETTINGS**

Set the throttle adjustment function (EPA) to 100% and the ABS function to OFF using the transmitter throttle

channel function. If the throttle angle is too large or the ABS functions are on, erroneous operation may occur.

*When using the ABS function, after setting up the MC231CR / MC331CR, stop the reverse function, then turn on the ABS function. If the ABS function is on, the MC231CR / MC331CR cannot be set up correctly.

Before setting each point, set the transmitter throttle channel trim to neutral.

Turn on the power in transmitter -> amp order.





3PV-2.4G Functions

Model Selection / Model Reset (MDL)

The model selection selects the desired model memory from the 10 model memories stored within the transmitter, and the model reset erases all data stored in a specific model memory.



Model Name

This function provides a 4-character name for each of the model memories in the transmitter to easily select the correct setup for the model currently in use.

· Clearly label each model for easy selection.



Alarm start voltage

Voltage change

Power Switch: OFF → ON

Low Battery Alarm LBA)

Low battery voltage

11

J_v

MDL SYS TRM STRM D/R EPA

SMX REV EXP F/S ABS COPY

Select the battery alarm voltage according to the battery to be used.

- *The voltage drop of a rechargeable battery and a dry cell battery is different. When using a rechargeable battery, always change the voltage.
- •4 dry cell batteries \Rightarrow 4.2V
- ●HT5F1800B (5cell NiMH battery) ⇒ 5.0V

FT2F1700BV2/FT2F2100BV2 (2cell LiFe battery) ⇒ 5.8V

(SYS) System Type

System changes (T-FHSS, S-FHSS, FHSS, T-FHSS <High-Speed>) matched to the receiver type.

When the system was changed and when a model of a different system was selected, signal are output in the system set at the point at which the transmitter power was turned back on.

System Type MDL SYS TRM STRM D/R EPA SMX REV EXP F/S ABS COPY TFH: T-FHSS System change SFH: S-FHSS T-FH FH: FHSS - † 7 TFH-HS: T-FHSS <High-Speed> PUR

•R314SB/R304SB - T-FHSS (TFH), T-FHSS High-Speed (TFH-HS) : The voltage of the receiver is shown to a transmitter. •R203GF - - - S-FHSS (SFH), FHSS (FH)

THEV

When using the T3PV in the T-FHSS High-Speed mode, always use it under the following conditions: :Futaba digital servo (including BLS Series brushless servos) Servos Receiver's battery :Matched to the ratings of the receiver and connected digital servo (dry cell battery cannot be used).

Under other conditions, the set will not operate, or the specified performance will not be displayed even if it operates. In addition, it may cause servo trouble.

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Link Mode (Only T-FHSS)

This function is in case of T-FHSS. When linking, it's necessary to place the transmitter in link mode.

- *Link is required when a new model is made from a model selection.
- *When telemetry can't be used, try a relink once again.





Racers Tip

When you install a servo, always check to be sure the servo is at its neutral position. Adjust the servo horn hole position and linkage so both are parallel. When a servo saver is used, place it as close to center position as possible. Be sure the steering trim on the transmitter is at the neutral position.

R

Trim Operation And Maximum Travel

With the center trim feature, trim adjustments have no effect on the maximum servo travel. This prevents the linkages from binding when adjustments are made.

When Trim usage is extreme

If it takes most of your trim movement to get a servo to the neutral position, reposition the servo horn or servo saver on the servo and inspect your linkage installation.



Trim change

DT1

Direct Servo Saver Horn



Throttle Trim (**TRM-CH2**)

Throttle neutral adjustments can be made moving the throttle trim up or down.



Racers Tip

When using an electronic speed control, set the throttle trim to neutral and make adjustments to the speed control. On a gas powered model, set the trim to neutral and adjust the linkage to the point where the carburetor is fully closed in accordance with the engine instruction manual.

Trim Operation and Maximun Travel

With the center trim feature, trim adjustments have no effect on the maximum servo travel. This prevents the linkages from binding when adjustments are made.

When trim movement is extreme

If you use most of the trim movement to get the servo to the neutral position, recenter the servo horn closer to the neutral position and inspect your throttle linkage.







(Slide Type)

Channel-4 Trim (TRM-CH4)

(This setting screen is displayed when 4WS mixing or Brake mixing is activated.)

At 4WS mixing function:

The neutral adjustments of the rear steering servo can be made by pressing the +/- key.

At brake mixing function:

The neutral adjustments of the front brake servo can be made by pressing the +/- key.



*It can't be used in R203GF.

+ and = Press and hold Reset

SUB Trim change

*CH4 can't be used in R203GF.

+

SUB Trim (CH1-CH4)

SUB Trim

대금

MDL SYS TRM STRM DAR EPA

Use this function to adjust the neutral position of the steering, throttle and channel 3 (4) servos.

Subtrim shifts the entire servo travel range in the set direction.

*CH4 setting screen is displayed when 4WS mixing or Brake mixing is activated.

Steering Dual Rates (D/R

Use this function to adjust the steering travel of your model. When the steering angle is too large at over steering, decrease the rate. The setup here is linked with transmitter grip lever DT3. Adjustments can be made at this screen even if DT3 is assigned to another function.



CH1 to CH4

Select by
key

F:Forward B:Brake

R:Right L:Left

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Steering End Point Adjustment (EPA-CH1)

Use this function to limit the servo movement to the left or right. The servo travel to each side can be independently adjusted. This feature will compensate for any difference in right or left turning angles or radius due to the characteristics of your model.

Be sure that the steering linkage

does not bind or come in contact with any suspension parts or arms. If unreasonable force is applied to the servo,



the servo may be damaged and result in loss of control.

(EPA-CH2) **Throttle End Point Adjustment**

This function is used to adjust the forward and brake side servo travel. Each direction can be adjusted independent of each other. Use this feature to set the throttle servo travel.

A WARNING

🗥 WARNING

Be sure that your throttle linkage does not apply excessive force to the servo. If your linkage installation causes an unreasonable amount of force to be applied to the servo, the servo may be damaged and result in loss of control.



Channel-3 End Point Adjustment (EPA-CH3)

Use this function to limit the servo movement to the left or right. The servo travel to each side can be independently adjusted.

WARNING

Be sure that the linkage does not bind or come in contact with any parts or arms. If unreasonable force is applied to the servo, the servo may be damaged and result in loss of control.

Channel-3 EPA Reset + DL SYS TRM STRM D/R EPA SMX REV EXP F/S ABS COPY сн⊒ ٩L EPA rate change ININ

Range: 0 - 120% Adjust the travel of the servo while operating the channel-3 switch each way.

+ and - Press and hold



MDL SYS TRM STRM D/R EPA SMX REV EXP F/S ABS COPY

сн __

Channel-4 End Point Adjustment EPA

(This setting screen is displayed when 4WS mixing or Brake mixing is activated.)

(Left side)

Use this function to limit the servo movement to the left or right. The servo travel to each side can be independently adjusted.



*CH4 can't be used in R203GF.

🗥 WARNING

Be sure that the linkage does not bind or come in contact with any parts or arms. If unreasonable force is applied to the servo, the servo may be damaged and result in loss of control.

4WS/BRK Mixing (SMX)

Special Mixing Selection

SYS TRM STRM D/R EP.

TNH

SMX REV EXP F/S ABS COPY

Either 4WS mixing function or Brake mixing function can be selected on this screen.

*This function can't be used in R203GF.

4WS Mixing (4WS)

This mixing is used with Crawler and other 4WS specification cars. The 1st channel controls the front side steering

- and the 4th channel controls the rear side steering.
- 4WS function selection
- 1. After connecting the linkage, use the servo reverse function to change the direction of operation of the front and rear wheels.
- 2. Thereafter, use the end point adjuster to adjust the left and right steering angles.

Brake Mixing (BRK)

Use this mixing when the front and rear brakes must be adjusted independently, such as in 1/5GP cars, etc. This mixing uses the 2nd channel to control the rear brakes and the 4th channel to control the front brakes.

• When braking, mixing is applied to 2nd channel and to 4th channel.

• The set value of A.B.S. function is reflected.

Steering Servo Reversing (REV-CH1)

This function reverses the rotation direction of the Steering servo.

When the trim position deviates from the center, the deviation will be on the opposite side when the servo is reversed.



SMX REV EXP F/S ABS COP

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Steering Servo Reverse

NOR: Normal

REV: Reverse

SMX REV EXP F/S ABS COP

СН

Throttle Servo Reversing (REV-CH2)

This function reverses the rotation direction of the throttle servo.

When the trim position deviates from the center, the deviation will be on the opposite side when the servo is reversed.

Throttle Servo Reverse



Direction change



Channel-3 Servo Reversing (REV-CH3)

This function reverses the rotation direction of the channel-3 servo.

Channel-3 Servo Reverse

MOLISYSITEM JTEN JUR EPA SMX REVIEXP F/SIABSICOPY CH J NOR: Normal REV: Reverse





INH: Inhibited 4WS: 4WS mixing BRK: Brake mixing for second brake



Channel-4 Servo Reversing (REV-CH4)

(This setting screen is displayed when 4WS mixing or Brake mixing is activated.)

This function reverses the rotation direction of the channel-4 servo.

*CH4 can't be used in R203GF.

When the trim position deviates from the center, the deviation will be on the opposite side when the servo is reversed.

Channel-4 Servo Reverse





Steering EXP (EXP-CH1)

This function is used to change the sensitivity of the steering servo around the neutral position. It has no effect on the maximum servo travel.

[-] Minus → Around the neutral position is mild.
 [+] Plus → Around the neutral

[+] Plus \rightarrow Around the neutral position is quick.

Steering EXP \downarrow + and - Press and hold Reset \downarrow + \downarrow

+ and - Press and hold

Reset

Racers Tip

When the setting is not determined, or the characteristics of the model are unknown, start with 0%. (When EXP is set to 0%, servo movement is linear.)

Throttle EXP(EXP-CH2)

Throttle EXP

MDL SYS TRM STRM D/R EPA

SMX REV EXP F/S ABS COPY

This function changes the sensitivity of the throttle servo in the throttle trigger forward side and brake side directions. It has no effect on the servo maximum travel.



Racers Tip

When the track conditions are good and there is no sense of torque at the power unit, set the EXP to the + (quick) side. When the track is slippery and the drive wheels lose their grip, set the EXP to the - (mild) side.

Throttle Fail Safe (F/S)

This function moves the throttle servo to a preset position when the receiver cannot receive the signal from the transmitter for some reason.

When the signal from the transmitter can be received again, this function automatically resets.

*For gasoline engine cars, it is recommended that the fail safe position be set to the direction that applies the brakes.



key.

steering.



Reference

*Specifications and ratings are subject to change without prior notice.

Ratings

Communication method:

Two-way(T-FHSS)/One-way(S-FHSS,FHSS) operation system Maximum operating range:

- 80m (Optimum condition)
- For safety:
- F/S (Throttle), ID

Transmitter T3PV-2.4G

(T-FHSS/S-FHSS/FHSS system, wheel type, 3+1 channels)
*The 4th channel is used for mixing functions only.
Transmitting frequency:

2.4GHz band

Power requirement:

Size AA Dry cell battery x 4 (6V)

Current drain:

100mA or less

Transmission antenna:

1/2λ di-pole (Built-in)

NOTE: This Futaba T-FHSS/S-FHSS/FHSS

Receiver R203GF:

(S-FHSS/FHSS auto detection system, 3 channels)
Power requirement:
4.8V ~7.4V battery (Dry cell battery cannot be used.)
Size:
1.54x1.02x0.39"(39x26x10mm)
(excluding a projection part)

Weight: 0.28oz.(8g)

Receiver R304SB/R314SB:

(T-FHSS system, 4 channels)
Power requirement:
4.8V ~7.4V battery (Dry cell battery cannot be used.)
Size:
1.38x0.91x0.33"(35.1x23.2x8.5mm)(excluding a projection part)
Weight:

0.23oz.(6.6g)

NOTE: This Futaba T-FHSS/S-FHSS/FHSS system, does not work with current Futaba FASST[™] systems. Futaba FASST systems and T-FHSS/T-FHSS/S-FHSS/FHSS systems are not compatible.

When Requesting Repair

Before requesting repair, read this instruction again and recheck your system. Should the problems continue, request as follows.

(Information needed for repair)

Describe the problem in as much detail as possible and send the letter along with the system in question.

- Symptom (Including the conditions and when the problem occurred)
- R/C System (Send transmitter, receiver and servos)
- Model (Type of model, brand name and model number or kit name)
- Detailed packing list (Make a list of all items sent in for repair)
- Your name, address and telephone number.

(Warranty)

Read the Warranty card.

• When requesting warranty service, send the card or some type of dated proof of purchase.

