

SKYSPORT

4 FOUR

**4CHANNEL
RADIO CONTROL
SYSTEM**



4YF-FM

FM 4 CHANNELS FOR AIRCRAFT

INSTRUCTION MANUAL

1M23N01702

FOR AIRCRAFT

Futaba® *Digital Proportional R/C System*

FOR SAFETY	2
MEANING OF SPECIAL MARKINGS	2
PRECAUTIONS DURING FLIGHT	3
NICD BATTERY CHARGING PRECAUTIONS	4
OTHER PRECAUTIONS	5
STORAGE AND DISPOSAL PRECAUTIONS	5
BEFORE USE	7
SET CONTENTS	7
NAME AND HANDLING OF EACH PART	8
TRANSMITTER OPERATION AND MOVEMENT OF EACH SERVO	11
INSTALLATION AND ADJUSTMENT	12
CONNECTIONS	12
ADJUSTMENTS	14
USING OTHER FUNCTIONS	15
USING THE FREQUENCY BOARD	15
SERVO HORN	15
NON-SLIP ADJUSTABLE LEVER HEAD	15
STICK LEVER SPRING TENSION ADJUSTMENT	16
TRAINER FUNCTION	16
CHARGING THE NICD BATTERY	17
REFERENCE	18
RATINGS	18
TROUBLESHOOTING	19
GLOSSARY	20
Repair Service	21

To ensure safe use, observe the following precautions.

MEANING OF SPECIAL MARKINGS

Pay special attention to the safety at the parts of this manual that are indicated by the following marks.

Mark	Meaning
 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.
 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.

Symbol:  ; Prohibited  ; Mandatory

PRECAUTIONS DURING FLIGHT

⚠ WARNING

PROHIBITED ITEMS

Do not fly simultaneously on the same frequency.

Interference may cause a crash.



*Use of the same frequency will cause interference even if the modulation method (AM, FM, PCM) is different.

Do not fly in the following places:

- Near other R/C flying fields (within about 3km)
- Near people on the ground, or objects in the air
- Near homes, schools, hospitals, or other places where there is a lot of people
- Near high tension lines, high structures, or communication facilities

Radiowave interference and obstructions may cause a crash. A crash caused by trouble in the R/C set, or the model itself, may cause death or property damage.

Do not fly on rainy or windy days, or at night.

Water will penetrate into the transmitter and cause faulty operation, or loss of control, and cause a crash.



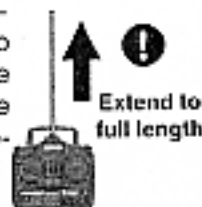
Do not fly when you are tired, sick, or intoxicated.

Fatigue, illness, or intoxication will cause a loss of concentration or normal judgment and result in operation errors and a crash.

MANDATORY ITEMS

Extend the antenna to its full length.

If the antenna is too short, the effective range of the radiowaves will become shorter.



Always test the digital proportional R/C set before use.

Any abnormality in the digital proportional R/C set, or model, may cause a crash.

*Before starting the engine, check that the direction of operation of each servo matches the operation of its control stick. If a servo does not move in the proper direction, or operation is abnormal, do not fly the plane.



CHECK ITEMS

Check that the transmitter antenna is not loose.

If the transmitter antenna comes off during use, control will be lost and the model will crash.

FOR SAFETY

⚠ CAUTION

PROHIBITED ITEMS

When placing the transmitter on the ground during flight preparations, be sure that the wind cannot knock it over.

If it is knocked over, the throttle stick may be pushed to full high and the engine will race and create a dangerous situation.

Do not touch the engine, motor, and FET amp during and immediately after use.

They are hot and will cause a burn.

MANDATORY ITEMS

When turning on the power switch

After setting the transmitter throttle stick to maximum slow,

1. Turn on the transmitter power switch,
2. Then turn on the receiver power switch.

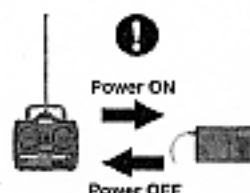
When turning off the power switch

After stopping the engine,

1. Turn off the receiver power switch,
2. Then turn off the transmitter power switch.

If the power switch is turned off in the opposite order, the engine may go to full throttle unexpectedly and cause an injury.

*Maximum slow: Direction in which the engine or motor runs at the slowest speed.

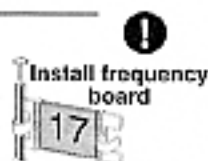


When adjusting the digital proportional R/C set, always stop the engine, except when necessary.

If the engine suddenly goes to high speed, it may cause an injury.

When flying, always install the frequency board to the transmitter antenna.

When the frequency was changed, also change the frequency board.



NICD BATTERY CHARGING PRECAUTIONS

⚠ WARNING

MANDATORY ITEMS

Always charge the nicd battery before each flight.

If the battery goes dead during flight, the plane may crash.

Charge the digital proportional R/C nicd battery with the special charger, or digital proportional R/C quick charger, sold separately.

Overcharging may cause burns, fire, injury, blindness, etc. due to overheating, breakage, electrolyte leakage, etc.



Use the special charger

⚠ CAUTION

PROHIBITED ITEMS

Do not use commercial nicd penlight batteries.

During quick charging, the battery holder contacts may overheat and damage the equipment, or prevent charging.



Do not short the nicd battery connector terminals.

Shorting the terminals may cause sparking and overheating and result in burns or fire.

Do not drop or apply strong shock to nicd battery.

The battery may be shorted and cause overheating or breakage and electrolyte leakage and result in burns or damage by chemical mater.



FOR SAFETY

OTHER PRECAUTIONS

⚠ CAUTIONS

—PROHIBITED ITEMS—

Do not get fuel, waste oil, etc. on plastic parts.

The plastic may melt and fail to function.

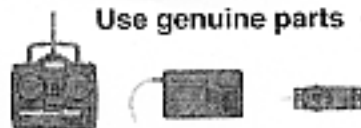
—MANDATORY ITEMS—

Always use Genuine Futaba transmitter, receiver, servos, FET amp, nicd battery, and other optional parts.

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

Use the parts described in the instruction manual and catalogs.

Use genuine parts !



STORAGE AND DISPOSAL PRECAUTIONS

⚠ WARNING

—PROHIBITED ITEMS—

Do not leave the digital proportional R/C set, battery, model airplane, etc. within the reach of small children.

Touching and operating the digital proportional R/C set, or licking the battery, may cause injury or damage due to chemical matter.