INSTRUCTION MANUAL

ORX

DIGITAL PROPORTIONAL RADIO CONTROL SYSTEM

2.4GHz

T-SIX

6 CHANNEL TRANSMITTER

*Full range 2.4GHz DSMX 6-channel radio
*10-model memory
*ModelMatch
*ServoSync
*Roller/selector user interface
*Attractive and ergonomic design
*Rudder dual-rate
*Large LCD display
*Integrated timer
*Contrast Adjustment
*Dual-speed trim scroll
*Model name and type
*Throttle cut
*Trainer Mode
*Model Copy
*Trainer Mode
*Travel adjustment
*Sub-trim
*Servo monitor
*Dual rate and exponential
*Compatible with any existing DSM2 receiver
*Airplane Programming Features: Flaps, P-mixes, Dual
 aileron, V-tail, Delta, Differential
*Heli Programming Features: Gyro adjust, Graphic throttle
 curve, Graphic pitch curve, P-mixes, Revo mix
*Swash type (Normal, and CCPM 120)
*Adjustable stick length
*Direct trim access display

Prior to use, please read this manual thoroughly.
Keep this manual in a convenient place for quick and easy reference.

FC CE

MADE IN CHINA

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Instrodution

Thank you for choosing to purchase this Orange RX products. T-SIX is a highly function product with outstanding operability that concentrates the essence of the technology built up by this company through long experience, this product designed with a newly developed 2.4Ghz spread spectrum technology, automatical binding, high-speed response, and full range control. in order to make full use of these features and safely enjoy your RC activities, please carefully read this operation manual. Our whole company hopes that you will enjoy using this products for many years.

Warning ⚠

1. This product is not a toy, it is not suitable for player who under 14 years old.
2. Always choose and keep the safety flight place which your local law allowed. Because the radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
3. Please understanding that this company and seller assume no liability for the operation or use this products. Intended for use only by adults with experience flying remote control helicopters at a legal flying field. After the sell of this products, we cannot maintain any control over its operation or usage.
4. Any accident or failure that may occur from the modification of this product, use non-genuine parts, nature disaster, and improperly operate are not covered by any warrantee and can not be returned for a repair or replacement, please contact our distributor for free technical consultation and parts ar discounted rates when you experience problems during operation or maintenance.

General Safety Precautions and Warnings

1. Always operate your model in a open space away from full-size vehicles, traffic building wires and people. Always keep a safety distance in all directions around your model to avoid collisions or injury. This model is control by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
2. Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics. It is forbidden to use this product in raining or thunder and lightning weather.
3. Please use the replacement of parts on the manual to ensure the safety of instruction. This product is for RC model, so do not use for other purpose.
4. Operate this product within your ability, do not operate it under tired condition and improper operation may cause in dangers.
5. Always use the correct battery like 4 pieces 5# AA batteries, or 2 cell 7.4V li-poly battery. Please always use JST collect when use 7.4V Li-poly battery, and always connect the (+) and (-) in proper direction.

The Precautions Before Flight

1. Always make sure that all of the batteries with fully charged of radio and receiver.
2. Must ensure that the trimmer and the sticker of throttle are in the bottom position. And the function button at original position. Otherwise this product can not operate.
3. Always power on the transmitter at first, and lower the trimmer and sticker of throttle to bottom, than connect on the flight battery. It may cause the injury or damage to you or others if incorrect operation.
4. Always make sure that the direction of each servo operate with correct direction,and smoothly.

Transmitter (Mode 1)

Antenna

Flap/Gyro

Trainer / Bind

Throttle Cut

Elevator Dual Rate

Rudder Dual Rate

Mix / Throttle Hold

Gear /Flight Mode

Aileron Dual Rate

Elevator Trim

Elevator / Rudder Stick

Throttle Trim

Throttle/Aileron Stick

On/Off Switch

Rudder Trim

Aileron Trim

List

Enter

UP

Down

Roller

Display

Transmitter (Mode 2)

Antenna

Flap/Gyro

Trainer / Bind

Throttle Cut

Elevator Dual Rate

Rudder Dual Rate

Mix / Throttle Hold

Gear /Flight Mode

Aileron Dual Rate

Throttle Trim

Throttle / Rudder Stick

Elevator Trim

Elevator/Aileron Stick

On/Off Switch

Rudder Trim

Aileron Trim

List

Enter

UP

Down

Roller

Display

Transmitter

Handle

Trainer function connector

Note: all of the batteries should be work with JST plugger and connect with properly pole.

7.4V Li-Poly battery *1,

− +

1.2V or 1.6V NIMH BATTERY *4
5#AA battery *4

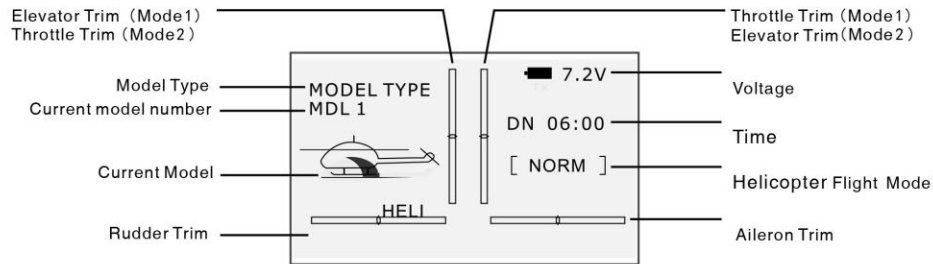## Binding the Transmitter and Receiver

1. Inset the binding plug in the BATT on the receiver.
2. Connect the flight battery to the receiver, then the LED flashing quickly.
3. Move the throttle sticker to the LOW/OFF position. Then power on the radio.
4. It indicates that binding is success when the LED of receiver turn to light steady.
5. Always move off the Binding plug from receiver after bound.

Initial INFO Screen

Elevator Trim（Mode1）
Throttle Trim（Mode2）

Model Type
Current model number

Current Model

Rudder Trim

MODEL TYPE
MDL 1

HELI

7.2V

DN 06:00

[NORM]

Throttle Trim（Mode1）
Elevator Trim（Mode2）

Voltage

Time

Helicopter Flight Mode

Aileron Trim

*This INFO screen is displayed when the power switch is switched on. The screen has a two-page configuration, and rotating the ROLLER to right moves forward to the Function list screen, When you wish to return to the Initial INFO Screen from the Function list screen, rotating the ROLLER to the left returns to the Initial INFO Screen.

*The Function list screen allows display of the information from sensor attached to the receiver as well as Timer and Flight Model information, it is possible to select required function and display them. (Note: In each flight model)

1. Voltage: When the transmitter voltage drops below 4.3 volts, "Warning Low Battery" will flash and an alarm sound. If you are flying when this occurs, land immediately.
2. Timer: Timer function allows you to program a Count Down timer or Stop Watch (count up timer) to display on the main screen.
3. Model Type: Model Type programs the selected model memory to function in Helicopter or Airplane programming. You should program Model Type first when setting up a new model.
4. Trim step: The Trim Step function allows servo movement adjustment per click of trim.
5. Model display: you can see the model directly after your model type selected.

Names and Functions of the Input Key

List
Enter
UP
Down

ROLLER

■FUNCTION LIST   1 / 2

MODEL SET   THRO CUR
D/R&EXPO   PITC CUR
TRAVEL ADJ   SEASH MIX
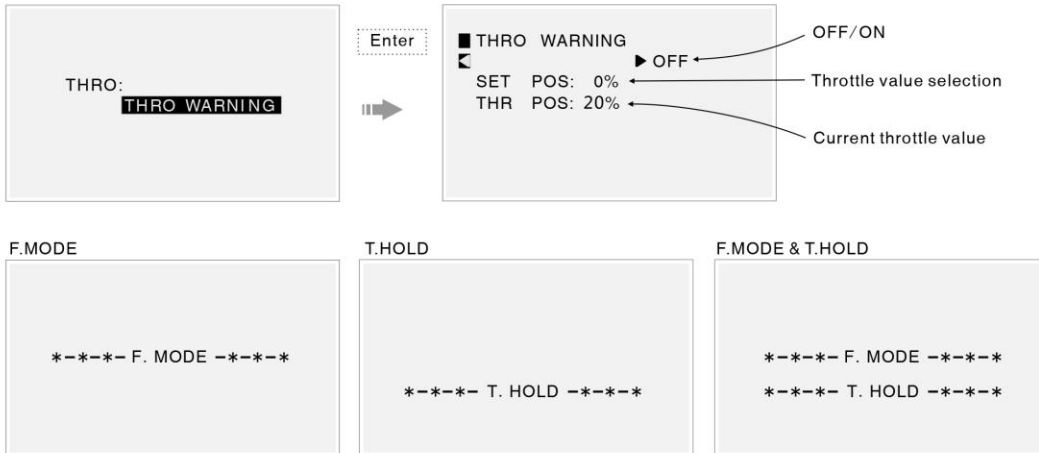SUB TRIM   MIX 1
GYRO   MIX 2

The T-SIX utilizes a roller that can be rotated or pressed and four buttons, LIST, ENTER, UP and DOWN that are used to access and program all the functions.
1. LIST Key: when this key is pressed the screen changes to the Function Listing screen.
2. ENTER Key: if this key is pressed when the INFO screen is being displayed, the screen will change to the My list screen. This can be used for moving to each of the other functions.
3. UP Key: if this key is pressed the Select Light will move up to your desired menu or list.
4. DOWN Key: if this key is pressed the Select Light will move down to your desired menu or list.
5. ROLLER: Press the ROLLER to access screens or functions. Or Rotate the ROLLER to adjust values or to select options.
6. Select light: move the select light to ◤ , then pressing ROLLER the screen will back to previous Menu.

Programmable Alarms

The T-SIX features programmable alarms that warn of a potential unsafe switch or stick position when the transmitter is turned on. In Acro mode programmable alarms include high throttle, gear and mid and land lap positions while in helicopter mode warnings include high throttle, Stunt 1, Stunt 2, and Hold. If any of these switches or throttle stick position is in an unsafe position when the transmitter is turned on, an alarm will sound, the screen will display the offending switch position and the transmitter will not transmit a signal. Moving the switch or stick to the desired position will clear the warning and normal operation will resume.

The Warnings function programs an alarm to sound if specific switches or stick positions are in an unsafe position when the transmitter is first turned on. In helicopter model type default warnings include Throttle, Stunt 1, Stunt 2 and Hold. In airplane model type these warnings include Throttle Low, Flaps, Gear,

Flight Mode 1 and Flight Mode 2. If you turn the transmitter on and any of these switches or the throttle is not at the low position, the alarm will sound; the screen will display the warning and no transmission will occur until the stick or switch is in the correct position.

```
                                    ■ THRO  WARNING          OFF/ON
  ┌───────────────────┐   ┌─────┐   ◄              ▶ OFF ◄──
  │                   │   │Enter│
  │                   │   └─────┘     SET   POS:  0% ◄─────   Throttle value selection
  │  THRO:            │   ➜          THR   POS: 20% ◄─────
  │      THRO WARNING │                                      Current throttle value
  │                   │
  └───────────────────┘
```

F.MODE   T.HOLD   F.MODE & T.HOLD
```
┌───────────────────┐   ┌───────────────────┐   ┌───────────────────┐
│                   │   │                   │   │                   │
│                   │   │                   │   │ *−*−*− F. MODE −*−*−*│
│ *−*−*− F. MODE −*−*−* │  │                   │   │                   │
│                   │   │ *−*−*− T. HOLD −*−*−* │  │ *−*−*− T. HOLD −*−*−*│
│                   │   │                   │   │                   │
└───────────────────┘   └───────────────────┘   └───────────────────┘
```

Helicopter Mode

The T-SIX organizes the programming screens in two separate categories: FUNCTION LIST and SET UP LIST The FUNCTION LIST contains programming that is generally used when initially setting up a model ,and seldom used at the field. SET UP LIST functions includes Model Type ,Model Name ,Wing Type ,(Swashplate Type for Helis) Model Reset, etc. Note: No radio transmission occurs when a System Setup screen is displayed to prevent accidental servo operation. This protects linkages/servo gears from damage when making programming changes.

FUNCTION LIST and SET UP LIST in Airplane and Heli Model type includes the following screens:

```
MODEL TYPE        7.2V        ■FUNCTION LIST    1/2      ■FUNCTION LIST    2/2
MDL 1                         ◄
                  DN 06:00    MODEL SET   THRO CUR        REV MIX
                              D/R&EXPO    PITC CUR        SETUP LIST
                  NORM        TRAVEL ADJ  SWASH TYPE
                              SUB TRIM    MIX 1
         HELI                 GYRO        MIX 2
```

Helicopter SETUP LIST:
Rotating the ROLLER to the SET UP LIST from FUNCTION LIST, then press the ROLLOER to select the SET UP LIST. When SET UP LIST appears on the screen, release the roller. And all of the SET UP LIST shows as below.
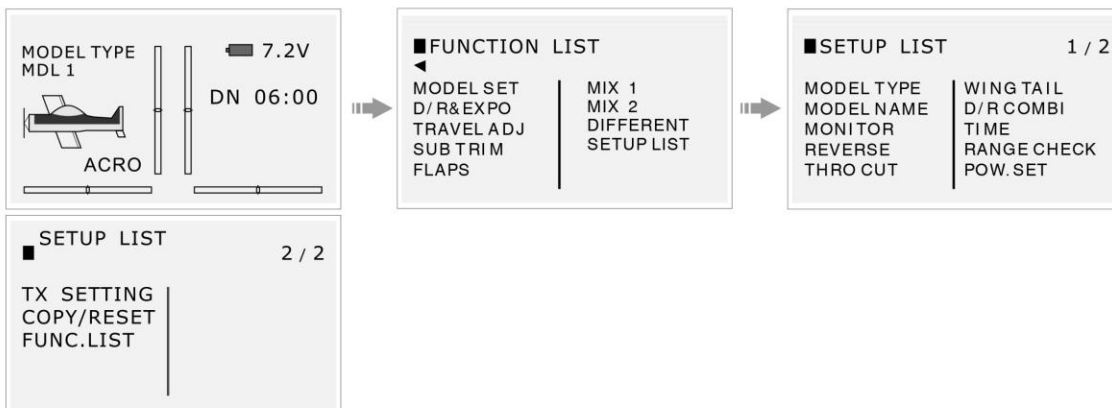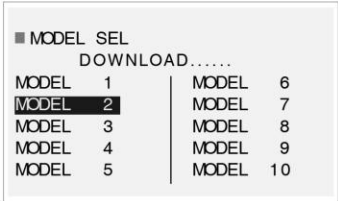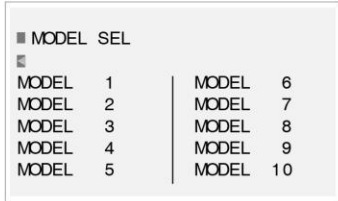
```
■FUNCTION LIST    2/2        ■SETUP LIST      1/2        ■SETUP LIST      2/2

REV MIX                       MODEL TYPE   THRO CUT        TX SETTING
SETUP LIST                    MODEL NAME   D/R COMBI       COPY/RESET
                              MONITOR      TIMER           FUNC.LIST
                              REVERSE      RANGECHECK
                              SWASH TYPE   POW.SET
```

HELICOPTER FUNCTION LIST

1.MODEL SET	7.PITC CUR	
2.D/R & EXPO	8.SWASH MIX	
3.TRAVEL ADJ	9.MIX 1	
4.SUB TRM	10. MIX 2	
5.GYRO	11. REV MIX	
6.THRO CUR	12.SETUP LIST	

HELICOPTER SETUP LIST

13. MODEL TYPE	19. D/R COMBI	25.FUNC.LIST
14. MODEL NAME	20. TIME	
15. MONITOR	21. RANGE CHECK	
16. REVERSE	22. POW. SET	
17. SWASH TYPE	23. TX SETTING	
18. THRO CUT	24. COPY/RESET	

Airplane Mode

Airplane SET UP LIST: Rotating the ROLLER to the SET UP LIST from FUNCTION LIST, then press the ROLLOER to select the SET UP LIST. When SET UP LIST appears on the screen, release the roller. And all of the SET UP LIST shows as below.

```
MODEL TYPE        7.2V        ■FUNCTION LIST            ■SETUP LIST      1/2
MDL 1                         ◄
                  DN 06:00    MODEL SET   MIX 1           MODEL TYPE   WING TAIL
                              D/R&EXPO    MIX 2           MODEL NAME   D/R COMBI
                              TRAVEL ADJ  DIFFERENT       MONITOR      TIME
         ACRO                 SUB TRIM    SETUP LIST      REVERSE      RANGE CHECK
                              FLAPS                       THRO CUT     POW.SET
```

```
■ SETUP  LIST
                  2/2

TX SETTING
COPY/RESET
FUNC.LIST
```

AIRPLANE FUNCTION LIST

26.MODEL SET	32.MIX 2
27.D/R & EXPO	33.DIFFERENT
28.TRAVEL ADJ	34.SETUP LIST
29.SUB TRM	
30.FLAPS	
31.MIX 1	

Airplane SET UP LIST

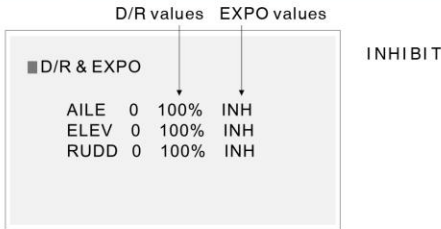|	
35. MODEL TYPE	41. D/R COMBI
36. MODEL NAME	42. TIME
37. MONITOR	43. RANGE CHECK
38. REVERSE	44. POW. SET
39. THRO CUT	45. TX SETTING
40. WING TAIL	46. COPY/RESET
	47.FUNC.LIST

To Access the FUNCTION LIST of HELICOPTER

1.MODEL SET to access the MODEL SELECT function through FUNCTION LIST.

```
■ MODEL SEL
◄
MODEL    1      MODEL    6
MODEL    2      MODEL    7
MODEL    3      MODEL    8
MODEL    4      MODEL    9
MODEL    5      MODEL   10
```

```
■ MODEL SEL
        DOWNLOAD......
MODEL    1      MODEL    6
MODEL    2      MODEL    7
MODEL    3      MODEL    8
MODEL    4      MODEL    9
MODEL    5      MODEL   10
```

" B B B "

In this screen, the establishing of models, for the model memories can be up 10 models for freely registered.
Press and hold the roller while turning on the transmitter. When FUNCTION LIST appears on screen, release the roller. Then rotate the ROLLER to Highlight Model Select, and then press the roller to access the function shows as above pictures.
Rotate the roller to highlight the desired model then press to select. Then "download... ..."showing on the Screen for seconds, while three "B B B" sounds, it means set up successful, and returns to the previous Screen. The model name will display on the main screen.

2.D/R & EXPO   D/R   EXPONETIAL

D/R values   EXPO values

```
■D/R & EXPO

AILE  0  100%  INH
ELEV  0  100%  INH
RUDD  0  100%  INH
```

INHIBIT

Dual Rates and exponentials are available on the aileron, elevator and rudder channels. You can assign them to numerous switches including the light mode switch.
Dual Rate:
Affects the overall travel which in turn affects control response sensitivity equally throughout the range of that channel. Reducing the dual rate reduces the maximum control rate as well as overall sensitivity.
Exponential:
Affects the sensitivity around center but has no affect on the overall travel. Positive Exponential reduces control sensitivity around neutral for more precise control but does not affect the maximum control response.
Note:
Positive and negative exponential values are available. A positive expo value reduces control sensitivity around center. It does not affect maximum travel and is recommended. Negative exponential values increase sensitivity around neutral and is seldom used.

3.TRAVEL ADJ

```
■ TRAVEL ADJ
◄
THRO ↓100%    AILE ←100%
ELEV ↓100%    RUDD →100%
GYRO ↑100%    PITC ↓100%
```
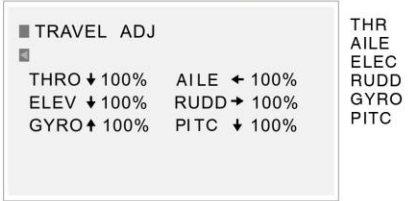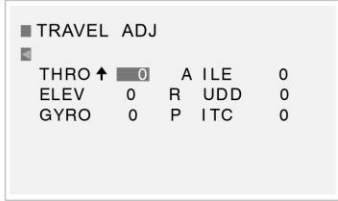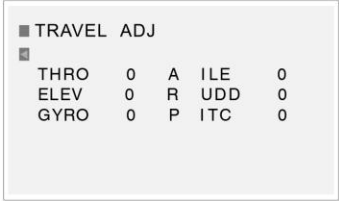
THR
AILE
ELEC
RUDD
GYRO
PITC

This function allows adjustment of the servo left -right(and up - down) control surface angles for each channel separately. The angle adjustment is carried out referenced to the neutral position. Adjustment is possible over an adjusting range between 0 and 125% for each of left - right (up - down) directions. The standard value is 100%, and this is the normal control surface angle.

4.SUB TRM   To access the SUB TRIM FUNCTION

Press and hold the roller while turning on the transmitter. When FUNCTION LIST appears on the screen, release the roller. The T-SIX is now in FUNCTION Setup Mode.
Rotate the roller to highlight SUB TRM then press to access the function. The following screen appears:

```
■ TRAVEL ADJ
◄
THRO    0    A ILE    0
ELEV    0    R UDD    0
GYRO    0    P ITC    0
```

```
■ TRAVEL ADJ
◄
THRO ↑  0    A ILE    0
ELEV    0    R UDD    0
GYRO    0    P ITC    0
```

Highlight the desired Trim value then press the roller to access. Rotate the roller to change to the desired trim value. Press to accept. Repeat to adjust all trim steps.

The Sub-Trim function supports electronic adjustment for each of 6 channels, with a range↑↓ of + or - 100%.
Note：Use only small Sub-Trim values so a servo's maximum travel is not overdrive.↑↓
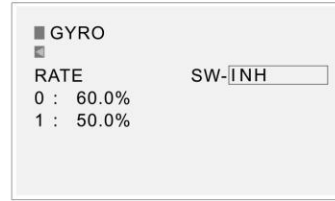
5.GYRO

■ GYRO

RATE   SW-F.MODE
0 : 60.0%
1 : 50.0%
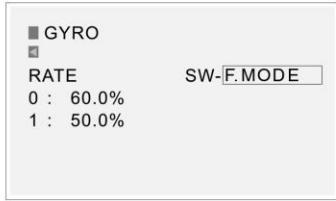
Switch options (INH,GYRO or F. MODEL), F. MODEL
opens option to make the switch position the same or
opposite for 0=NORMAL and 1=STUNT

■ GYRO

RATE   SW-GYRO
0 : 60.0%
1 : 50.0%
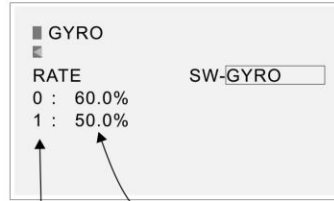
Option Switch   Option Value (0-100%)

■ GYRO

RATE   SW-INH
0 : 60.0%
1 : 50.0%

Options (INH or ACT). Choosing ACT
opens adjustable values.

Gyro function supports setting gain for gyros that have remote gain ability, generally on a given switch, or can be tied in with flight modes
to allow further flexibility. This function is not useful on some helicopters, because it does not allow "stick priority" mix for stick override
of the gyro function. A curve or multi-point mix may allow greater flexibility for some models. Refer to your model's manual for
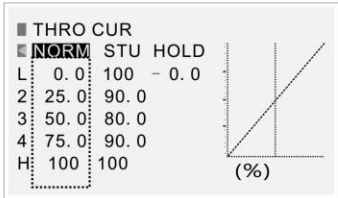recommend gyro settings.

6.THRO CUR

The Thro Cur function supports setting values for 5 positions in the throttle response curve of 3 different modes:NORM(Normal),STUNT
and HOLD.
Important：In TH.HOLD,throttle curve is a flat line representing a hold condition. You can adjust this at the 5 positions (L, 2, 3, 4 and H).
The throttle trim switch is only active when the flight mode switch is in the NORM (0) position. Throttle trim increases or decreases
engine/motor revolutions per minute (rpm) to achieve a reliable idle in NORM. The throttle trim switch has no effect in F MODE 1 (Stunt) or
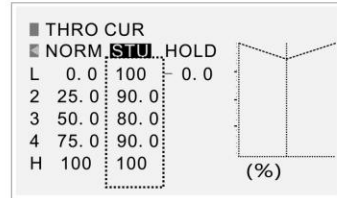in TH.HOLD 1 (active).
NORMA/STU: F-MODE GEAR
HOLD: TH HOLD MIX

THRO CUR (NORM)

■ THRO CUR
  NORM STU HOLD
L   0.0 100 - 0.0
2 25.0 90.0
3 50.0 80.0
4 75.0 90.0
H 100   100   (%)

NORM: each value set up in the Normal
flight mode.The value range:0⁻100.

THRO CUR (STU)

■ THRO CUR
  NORM STU HOLD
L   0.0 100 - 0.0
2 25.0 90.0
3 50.0 80.0
4 75.0 90.0
H 100   100   (%)

STU:each value set up in the STUNT
flight mode. The value range: 0⁻100.

THRO CUR(HOLD)

■ THRO CUR
  NORM STU HOLD
L   0.0 100 - 0.0
2 25.0 90.0
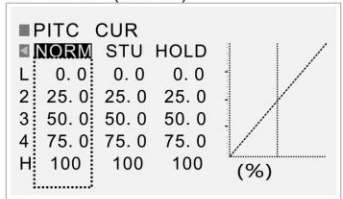3 50.0 80.0
4 75.0 90.0
H 100   100   (%)
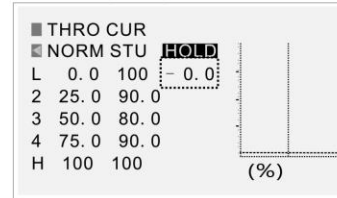
HOLD: in TH.HOLD curve,the value
range:－10⁻100.

7.PITC CUR

The Pitc Cur function supports setting values for 5 positions in the pitch response curve of 3 different modes: NORM (Normal), STUNT
and TH. HOLD. Understanding throttle curve makes pitch curve adjustment easier to understand. Refer to your model's manual for
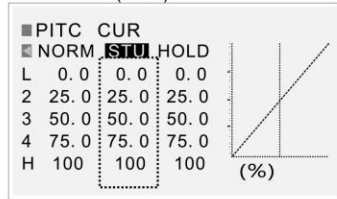recommended settings.
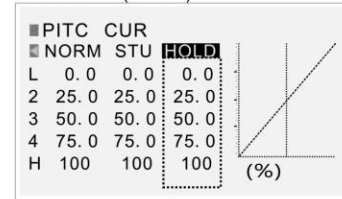NOTE：please set up the TH.HOLD function first Before set up the HOLD curve value.

PITC CUR (NORM)

■PITC CUR
  NORM STU HOLD
L   0.0   0.0   0.0
2 25.0 25.0 25.0
3 50.0 50.0 50.0
4 75.0 75.0 75.0
H 100   100   100   (%)

NORMA: each value set up in the Normal
flight mode. The value range: 0 - 100%.

PITC CUR (STU)

■PITC CUR
  NORM STU HOLD
L   0.0   0.0   0.0
2 25.0 25.0 25.0
3 50.0 50.0 50.0
4 75.0 75.0 75.0
H 100   100   100   (%)

STU: each value set up in the STUNT
flight mode. The value range: 0 - 100%

PITC CUR (HOLD)

■PITC CUR
  NORM STU HOLD
L   0.0   0.0   0.0
2 25.0 25.0 25.0
3 50.0 50.0 50.0
4 75.0 75.0 75.0
H 100   100   100   (%)

HOLD：in TH.HOLD curve,the value
range：   000%   1

8.SWASH MIX
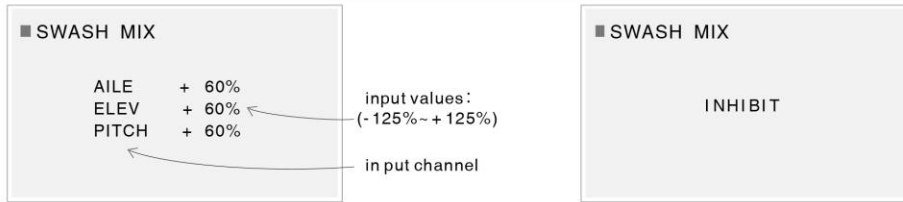
```
■SWASH MIX                           ■SWASH MIX


    AILE    + 60%                          INHIBIT
    ELEV    + 60%  ←──  input values :
    PITCH   + 60%        (-125%~+125%)

              ←──  in put channel
```

The Pitc Cur function supports setting values for 5 positions in the pitch response curve of 3 different modes : NORM (Normal), STUNT and TH. HOLD. Understanding throttle curve makes pitch curve adjustment easier to understand. Refer to your model's manual for recommended settings.

This swash mixing is for easily carrying out swash plate movement setting for helicopters that incorporate CCPM systems.

1. First, it will be necessary to set all of the settings to their standard conditions. Further, the aileron and elevator trim and the hovering pitch trim should be set to neutral.
2. After selecting the desired SWASH TYPE, determine each of the servo movement directions using the reverse switchs so that the pitch movements are normal.
3. After adjusting the SUB Trims so that each of the servo horns makes a right angle with the linkage when all of the servos have been set to neutral position, set the linkages so that the swash plate is horizontal.
4. Carry out the pitch operation(throttle operation), and then carry out the fine adjustment of each of the movement amounts by implementing left and right control surface angle adjustment with the intention of compensation for the variation in each of the servo control surface angles in order to make the swash plate move horizontally.
5. Carry out aileron or elevator operation. In the situation where the movement is in the opposite direction, the corresponding mixing amount should be set in the minus direction in the swash mixing.
6. The necessary movement amounts corresponding to each stick movement should be adjust using this mixing amount. Although the variable range ±125% , if the amount is too large the servo maximum control surface angle will be exceeded. Accordingly, if the movement amount is insufficient, adjust is using the servo horn hole position.

9.MIX 1

Mix 1 and 2 functions mix percentages between 2 channels, or a channel with itself (THROTTLE cannot be mixed with itself or as a slave).

You can program mixes so that stick or switch inputs control 2 or more servos.

The first channel is the master channel ; the second is the slave channel. You can adjust directional mix values (U,D,L and R) between -125% to +125% .

The mix can either be enabled (ON) all times or assigned to a switch, enabling and disabling the mix as needed while operating a model. You can also link trim so that adjusting master channel trim will also adjust slave channel trim.

When a mix is enabled and the assigned input control is moved, the master channel sends output at the same time the slave channel sends output.

Output is sent to the model in the direction and to the position assigned in the Mix screen. Output sent to model will match assignments in Mix screen.
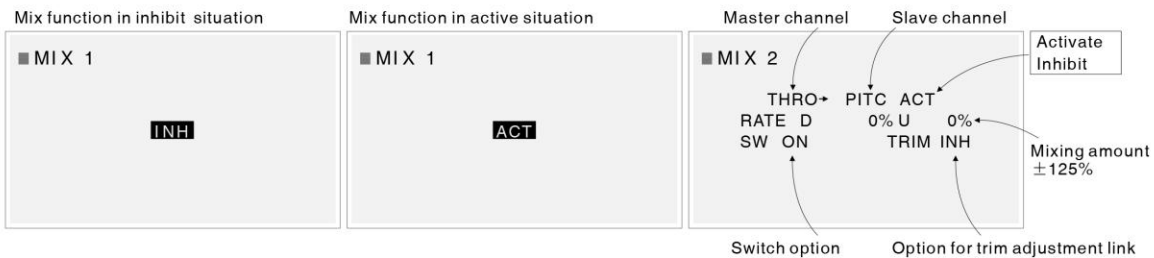
Mix Options

Aileron to Rudder: Causes rudder to move when ailerons move. This helps with airplanes that have adverse movement of the nose around the center axis (yaw) (right aileron results in left nose movement (yaw)). When programming aileron to rudder mix in the same direction, the airplane makes coordinated turns using ailerons only.

Elevator to Flap: Causes flaps (or flaperons) to move when elevator is moved , resulting in tighter looping maneuvers , or to provide aileron reflex for some 3D maneuvers such as Harriers.

Dual Elevators: Requires Gear to Gear Mix of -100% to +100% o inhibit (INH) Gear Channel Switch, then Elevator to Gear Mix of +100% to +100% to activate the Gear channel to work as a slave to the elevator channel. This makes dual elevator setups possible.
Rudder to Aileron or Elevator: Eliminates roll and pitch cou-pling (roll and pitch happening at the same time) when rudder is applied.
This is normally used to correct coupling in knife-edge flight .

Mix function in inhibit situation | Mix function in active situation | Master channel Slave channel

```
■MIX 1                    ■MIX 1                    ■MIX 2
                                                                      ┌─────────┐
                                                                      │ Activate│
                                                                      │ Inhibit │
                                                                      └─────────┘
                                               THRO→ PITC ACT
         INH                      ACT          RATE  D    0% U   0%
                                               SW  ON        TRIM INH
                                                                       Mixing amount
                                                                        ±125%

                                           Switch option    Option for trim adjustment link
```

10. REV MIX

The revolution mixing in this transmitter is based on the hovering points(output values from the stick center position on the pitch curve), and it is possible to set separate mixing amounts in each of UP and Down direction, in addition, because these transmitter settings use the Flight Mode NORM and STUNT. Move the F MODE switch to active a flight mode.

■ REVO MIX

NORM		STUNT	
UP	0%	UP	0%
DN	0%	DN	0%

Note: in the situation where a tail lock (head lock) gyro is being used, set it to not be used(Make all settings 0%).

Corresponding mixing amount (L125% to 0 to R125%)

In normal flying, values of around 5% should be preset in both the UP and DOWN directions, and fine adjustment should be carried out in actual flight. During overflying in STUNT flight, it can be expected that the mixing amounts should be around half those in normal flying. In addition, in situations where more advanced revolution mixing is required, program mixing should be utilized.

11. SETUP LIST

SET UP LIST: Rotating the ROLLER to the SET UP LIST from FUNCTION LIST, then press the ROLLOER to select the SET UP LIST. When SET UP LIST appears on the screen, release the roller. And all of the SET UP LIST shows as below.
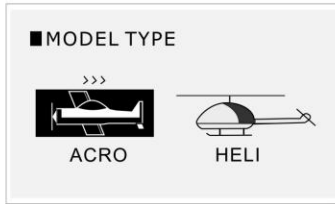
■FUNCTION LIST	2 / 2
REV MIX	
SETUP LIST	

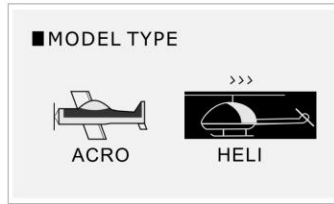| ■SETUP LIST	1 / 2
MODEL TYPE	THRO CUT
MODEL NAME	D/R COMBI
MONITOR	TIMER
REVERSE	RANGECHECK
SWASH TYPE	POW.SET

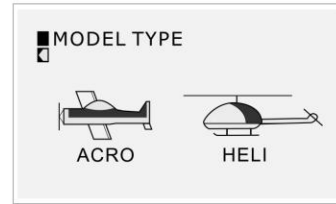## To Access the SETUP LIST of HELICOPTER

12.MODEL TYPE:

This transmitter supports 2 model types: Airplane (ACRO) and Helicopter (HELI). Model Type is stored in a model memory.
Options affecting other screens and Functions as below:

■MODEL TYPE

>>>

ACRO   HELI

Rotate the roller to highlight the airplane(ACRO) then press to select. Then "download… …"showing on the Screen for seconds, while six "BBB… …BBB" sounds, it means set up successful, and returns to the previous Screen. The selected model type will display on the main screen.

■MODEL TYPE

>>>

ACRO   HELI

Rotate the roller to highlight the helicopter(HELI) then press to select. Then "download… …"showing on the Screen for seconds, while six "BBB… …BBB" sounds, it means set up successful, and returns to the previous Screen. The selected model type will display on the main screen.

■MODEL TYPE
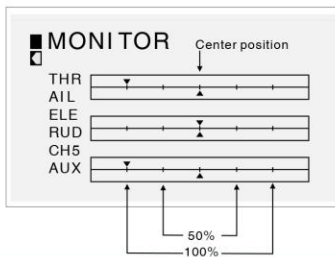
ACRO   HELI

Return to the SET UP LIST menu.

13.MODEL NAME:

Model Name function assigns a name to a specific memory, so the model memory is easier to identify. The model memory number and a name is displayed on the Main screen. The name fills 8 character spaces chosen from spaces, symbols,numbers and letters.

Model memory number (1-10)

■MODEL NAME

MODEL 4   O K!

! ¯ # ¥ % & [ ] * +, - . / 0 1 2 3 4
5 6 7 8 9 : ; < = > ? @ A B C D E F G H I
J K L M N O P Q R S T U V W X Y Z

Name input Succeed

Position of the character that is currently being input

Characters that can be input

14.MONITOR:

This function is for monitoring the servo movements of each channel on the transmitter display screen.
The servo moment display is bar display with a vertical line in the center marking the neutral position. Centered around this to left and right are graduations marking the control surface angle 50% and 100% positions in order, and at each of the left and right ends there are the maximum control surface angle 150% position.
The movements in this function include all of the adjustments and mixing. Each of the display positions should be considered as a rough guide.
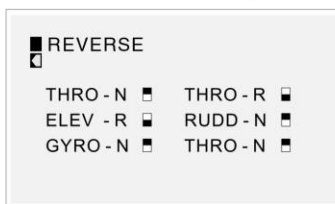
■MONITOR   Center position

THR
AIL
ELE
RUD
CH5
AUX

50%
100%

15.REVERSE:

Reverse function changes servo throw direction for all 6 channels. Movement of a control stick or switch is NOT changed. Instead, a channel's response to transmitter input is reversed.
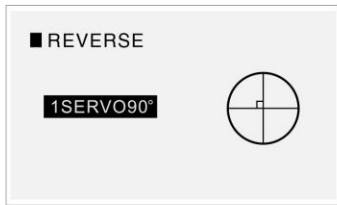N= Normal
R= Reverse
Note: Your aircraft manual may refer to this as changing transmitter flight control directions in the Control Test/Reverse controls section.

■REVERSE

THRO - N   THRO - R
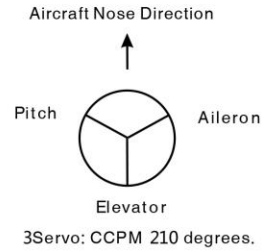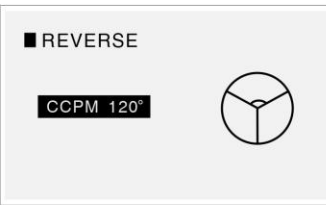ELEV - R   RUDD - N
GYRO - N   THRO - N

16 SWASH TYPE:

Swash Type function supports 1 Servo: 90 degrees (standard mechanical mix) and 3 Servo: CCPM 210 degrees.
Refer to your model's manual for recommended settings.

1 Servo: 90 degrees
(standard mechanical mix)

3Servo: CCPM 210 degrees.

■REVERSE

1SERVO90°

■REVERSE

CCPM 120°

Aircraft Nose Direction

Pitch   Aileron

Elevator

3Servo: CCPM 210 degrees.

17 THRO CUT:

Thro Cut function activates (ACT) or inhibits (INH) the Throttle Cut button. When an activated Throttle Cut button is pressed, the throttle moves to the low throttle, low trim position for safe and convenient shut down of the engine or removal of power to the electric motor.
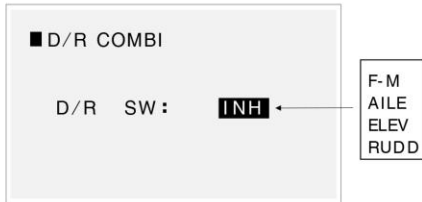
■THRO CUT

POSITION - INH

■THRO CUT

POSITION - ACT
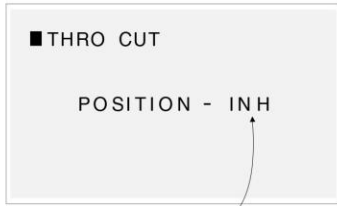
Throttle cut switch in inhibits
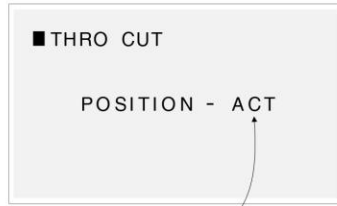
Throttle cut switch activates

18 D/R COMBI:

The Dual Rate Combi function allows you to assign a switch for combining D/R&EXPO. You can assign aileron, elevator and rudder dual rate and exponential functions to 1 of 3 common switches so dual rates/expo for all 3 channels is enabled by one switch.
INH:Options (INH,AILE,ELEV or RUDD switches.GEAR switch can be used in HELI mode.)

■D/R COMBI
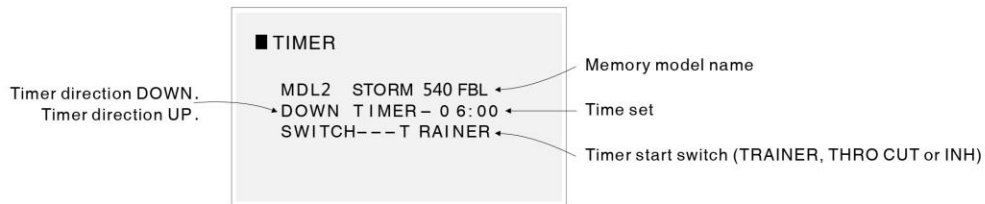
D/R SW: INH

F-M
AILE
ELEV
RUDD

19. TIME:

The Timer function includes a timer on the Main screen and an audible alarm. When the time expires, 5 beeps sound every 5 seconds.
Timer DOWN – This sets a countdown (from up to 59 minutes and 50 seconds).

Timer UP – This sets a count-up timer (up to 59 minutes and 50 seconds). The start time is programmable. The default start of 00:00 is recommended.
When the Timer function is enabled, the timer displays on the Main screen.
You can assign the Trainer Switch, Power On or Throttle Cut button to stop, start and reset the timer.

■TIMER

MDL2   STORM 540 FBL
DOWN TIMER– 0 6:00
SWITCH–––T RAINER

Memory model name

Time set

Timer start switch (TRAINER, THRO CUT or INH)

Timer direction DOWN.
Timer direction UP.
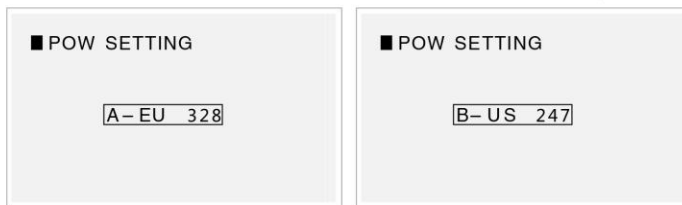
20. RANGE CHECK:

Range Check function activates or inhibits use of the Trainer switch to do a Range Check (which decreases transmitter output power).
A Trainer/Range Check switch position (When switch is held, ACT shows here)
1. Move the transmitter no less than 30 paces, approximately 90 feet (27m), from the model.
2. Face the model with the transmitter held in normal flying position.
3. Activate Range Check in the transmitter screen.
4. Pull and hold the trainer switch on the top left side of the transmitter .
5. Model should respond to all transmitter control inputs while the trainer switch is held.

```
■ RANGECHECK


    CHECK      INH
```
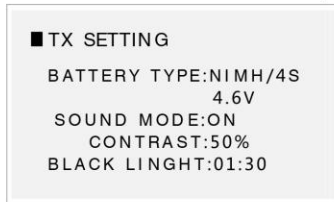
→

```
■ RANGECHECK


    CHECK      ACT
```

21. POW. SET:

The Power Setting function adjusts transmitter power output to conform to national standards. T-SIX offers two type of output power.
A-EU 328 : it is appropriate for most European countries conforming to EU 300-328.
B-US 247 : it is for use in the United States and countries outside the European Union (EU).

```
■ POW SETTING



    A-EU  328
```

```
■ POW SETTING



    B-US  247
```

22 TX SETTING:

In this function can be select the battery type, note sounds, LCD visibility and the black light time for this radio.

```
■ TX SETTING

  BATTERY TYPE:NIMH/4S
               4.6V
  SOUND MODE:ON
     CONTRAST:50%
  BLACK LINGHT:01:30
```
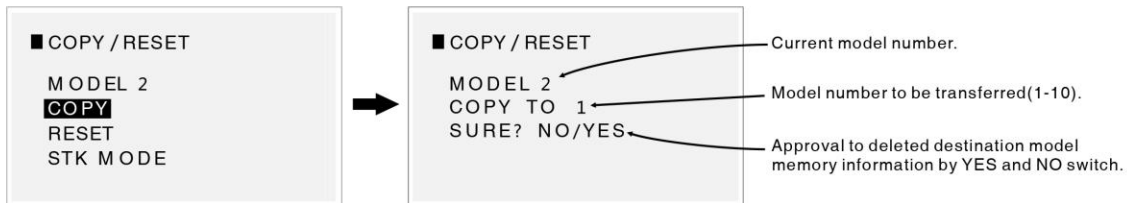
BATTERY TYPE: 1.2V or 1.6V NIMH BATTERY *4, 2sells/ 7.4V Li-Poly battery *1,
and 5#AA battery *4.
Note: all of the batteries should be work with JST plugger and connect with properly pole.

SOUND MODE:ON\OFF:The note sounds switch.
CONTRAST:0~100%:CONTRAST A CONTRAST List The Contrast function adjusts the image
                on the LCD for visibility in sunlight. The default value is 50%.
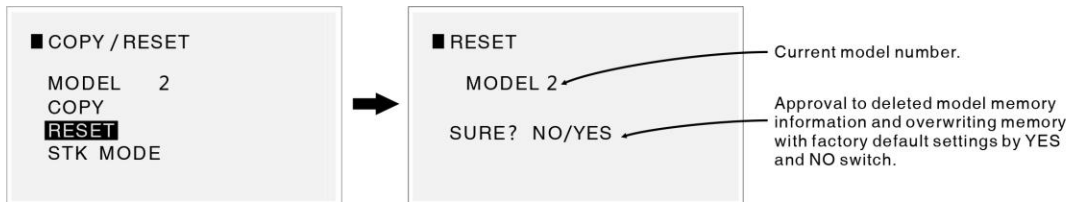BLACK LINGHT:01:30:The starting time for the BLACK LIGHT, user can set up the starting
                time according your habits.

23. COPY/RESET:

The Copy/Reset function supports copying the active model memory to any of the other 9 available model memories. This is useful for setting up a model with different programming or to set up a similar model.

```
■ COPY / RESET

  MODEL 2
  COPY
  RESET
  STK MODE
```

→

```
■ COPY / RESET

  MODEL 2
  COPY TO  1
  SURE? NO/YES
```

— Current model number.

— Model number to be transferred(1-10).

— Approval to deleted destination model
  memory information by YES and NO switch.

This function presets all of the setting data of the current model to the initial conditions.

```
■ COPY / RESET

  MODEL    2
  COPY
  RESET
  STK MODE
```

→

```
■ RESET

    MODEL 2


  SURE? NO/YES
```

— Current model number.

— Approval to deleted model memory
  information and overwriting memory
  with factory default settings by YES
  and NO switch.

The mode of the sticks can be chosen with this function. You can choose from Mode1 or Mode2.
You will need to remove the back case transmitter cover and swap the throttle ratchet and elevator spring.

```
■ COPY  RESET

  MODEL    2
  COPY
  RESET
  STK MODE
```

→

```
■ STK MODE
            MODE1
      ELEV       THRO

  RUDD  ⊕      AILE ⊕
```

→

```
■ STK MODE
            MODE2
      THRO       ELEV

  RUDD  ⊕      AILE ⊕
```
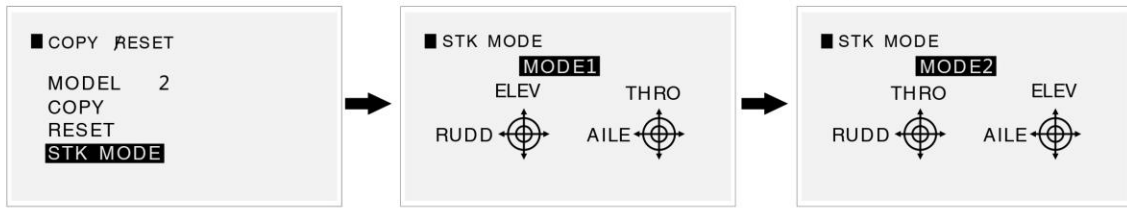
24 FUNC LIST :

SET UP LIST: Rotating the ROLLER to the FUNC.LIST from SET UP LIST, then press the ROLLOER to select the FUNC.LIST.
When FUNC.LIST appears on the screen, release the roller. And all of the FUNC.LIST shows as below.

```
■ SETUP LIST       2 / 2

  TX SETTING
  COPY/RESET
  FUNC.LIST
```

⇒

```
■ FUNCTION LIST       1 / 2
  ◄
  MODEL SET    THRO CUR
  D/R&EXPO     PITC CUR
  TRAVEL ADJ   SWASH TYPE
  SUB TRIM     MIX  1
  GYRO         MIX  2
```
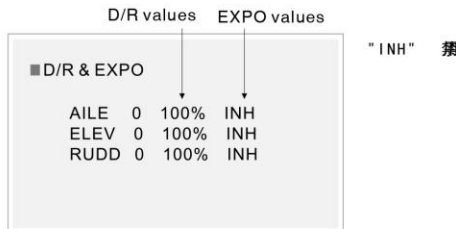
To Access the FUNCTION LIST of Airplane

25.MODEL SET :

In this screen, the establishing of models, for the model memories can be up 10 models for freely registered.
Press and hold the roller while turning on the transmitter. When FUNCTION LIST appears on screen, release the roller. Then rotate the ROLLER to Highlight Model Select, and then press the roller to access the function shows as above pictures.
Rotate the roller to highlight the desired model then press to select. Then "download... ..."showing on the Screen for seconds, while three "B B B" sounds, it means set up successful, and returns to the previous Screen. The model name will display on the main screen.

```
■ MODEL SEL                          ■ MODEL SEL                        " B B B "
◄                                          DOWNLOAD......
MODEL    1      MODEL    6          MODEL    1      MODEL    6
MODEL    2      MODEL    7          MODEL    2      MODEL    7
MODEL    3      MODEL    8          MODEL    3      MODEL    8
MODEL    4      MODEL    9          MODEL    4      MODEL    9
MODEL    5      MODEL   10          MODEL    5      MODEL   10
```

26.D/R & EXPO:

```
       D/R values   EXPO values

   ■ D/R & EXPO                      " INH "   禁

     AILE  0   100%   INH
     ELEV  0   100%   INH
     RUDD  0   100%   INH
```

Dual Rates and exponentials are available on the aileron, elevator and rudder channels. You can assign them to numerous switches including the light mode switch.
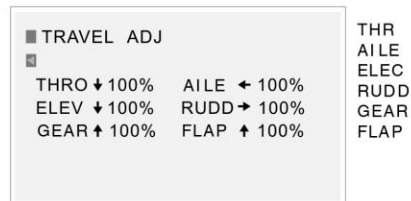Dual Rate
 Affects the overall travel which in turn affects control response sensitivity equally throughout the range of that channel. Reducing the dual rate reduces the maximum control rate as well as overall sensitivity.
Exponential
 Affects the sensitivity around center but has no affect on the overall travel. Positive Exponential reduces control sensitivity around neutral for more precise control but does not affect the maximum control response.
Note: Positive and negative exponential values are available. A positive expo value reduces control sensitivity around center. It does not affect maximum travel and is recommended. Negative exponential values increase sensitivity around neutral and is seldom used.

27.TRAVEL ADJ:

```
■ TRAVEL  ADJ                       THR
◄                                   AILE
  THRO ↓100%    AILE ← 100%         ELEC
  ELEV ↓100%    RUDD → 100%         RUDD
  GEAR ↑ 100%   FLAP ↑ 100%         GEAR
                                    FLAP
```
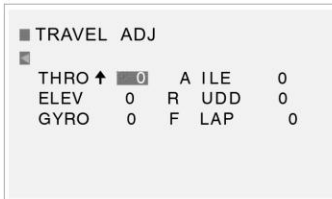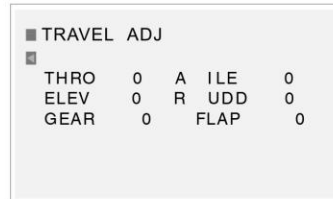
This function allows adjustment of the servo left -right(and up - down) control surface angles for each channel separately. The angle adjustment is carried out referenced to the neutral position. Adjustment is possible over an adjusting range between 0 and 125% for each of left - right (up - down) directions. The standard value is 100%, and this is the normal control surface angle.

28.SUB TRM:

Press and hold the roller while turning on the transmitter. When FUNCTION LIST appears on the screen, release the roller. The T-SIX is now in FUNCTION Setup Mode.
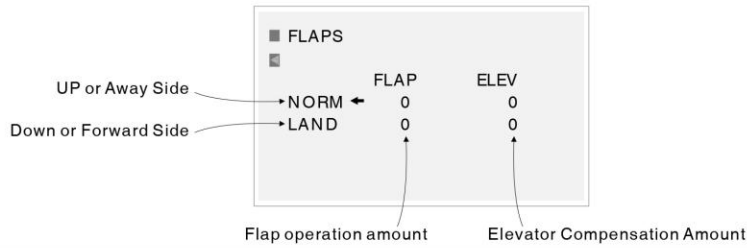Rotate the roller to highlight SUB TRM then press to access the function. The following screen appears :

```
■ TRAVEL  ADJ                   ■ TRAVEL  ADJ
◄                               ◄
  THRO    0    A  ILE   0         THRO ↑  0    A  ILE   0      Highlight the desired Trim value then press
  ELEV    0    R  UDD   0         ELEV    0    R  UDD   0      the roller to access. Rotate the roller to
  GEAR    0    FLAP     0         GYRO    0    F  LAP   0      change to the desired trim value. Press to
                                                              accept. Repeat to adjust all trim steps.
```

The Sub-Trim function supports electronic adjustment for each of 6 channels, with a range of + or - 100%.
Note : Use only small Sub-Trim values so a servo's maximum travel is not overdrive.
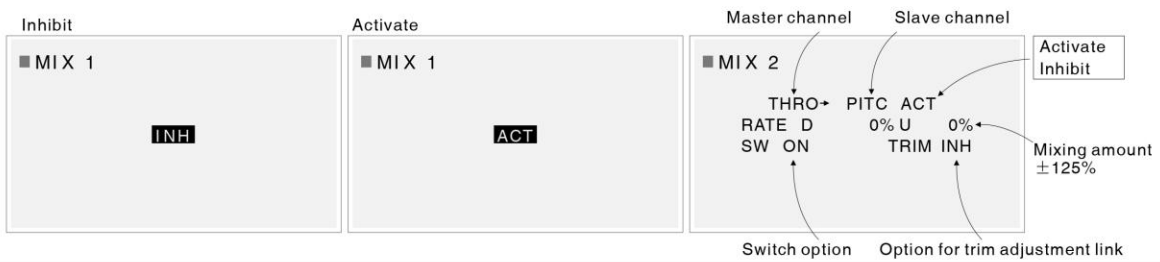
29.FLAPS:

The Flaps function adjusts flap travel. The elevator column is an optional flap to elevator mix in switch position 0 (NORM (normal)) and position 1 (LAND (landing)) mode.
A Flap/Gyro switch position shown by + (0=Norm, 1=Land)
B Position value (⇧100 to 0 to⇩100)

```
  ■ FLAPS
  ◀
                 FLAP        ELEV
UP or Away Side ──→ NORM ←   0           0
Down or Forward Side ──→ LAND   0         0


        Flap operation amount    Elevator Compensation Amount
```

30.MIX 1:

This transmitter incorporates 2 program mixing systems. Although there are 2 screens, they are explained together here since the operations of the MIX1-6 screens are basically common to each. The following screen shows the situation in the Mixing1 screen. Because this is set to the "INH" display in the initial condition, it will be in the usage stopped condition.
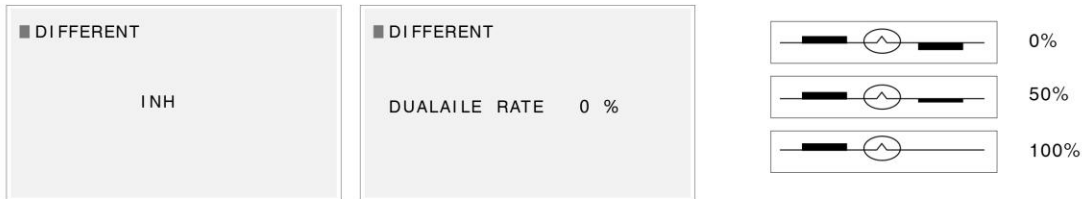
Inhibit   Activate   Master channel   Slave channel

```
■ MIX 1              ■ MIX 1                ■ MIX 2                          Activate
                                                                             Inhibit
          INH                    ACT            THRO→  PITC ACT
                                                RATE D      0% U    0%       Mixing amount
                                                SW  ON         TRIM INH      ±125%

                                             Switch option   Option for trim adjustment link
```

31.DIFFERENT：（Only when setting the wing type）

The Differential function decreases the amount an aileron moves down without affecting the amount the other aileron moves up. This can decrease swerving (adverse yaw) tendencies during roll maneuvers.
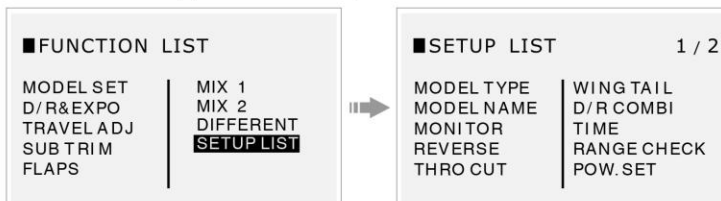
Differential is not available in this transmitter for flying-wing airplanes（ELEVON option in WING TAIL MIX）.
Note: Use of the Differential function requires choosing DUALAILE in WING TAIL MIX function.

```
■ DIFFERENT          ■ DIFFERENT                                         0%

          INH          DUALAILE  RATE    0 %                             50%

                                                                        100%
```

32. SETUP LIST :

SET UP LIST: Rotating the ROLLER to the SET UP LIST from FUNCTION LIST, then press the ROLLOER to select the SET UP LIST.
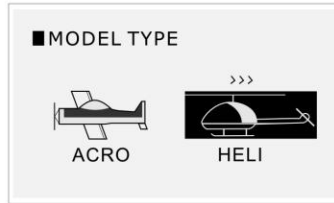When SET UP LIST appears on the screen, release the roller. And all of the SET UP LIST shows as below.

```
■FUNCTION LIST                    ■SETUP LIST         1 / 2

MODEL SET    MIX 1                 MODEL TYPE   WING TAIL
D/R&EXPO     MIX 2                 MODEL NAME   D/R COMBI
TRAVEL ADJ   DIFFERENT             MONITOR      TIME
SUB TRIM     SETUP LIST            REVERSE      RANGE CHECK
FLAPS                              THRO CUT     POW. SET
```

To Access the SETUP LIST of Airplane

33.MODEL TYPE:

This transmitter supports 2 model types: Airplane (ACRO) and Helicopter (HELI). Model Type is stored in a model memory.
Options affecting other screens and Functions as below:

■MODEL TYPE

ACRO   HELI

■MODEL TYPE

ACRO   HELI

■MODEL TYPE

ACRO   HELI
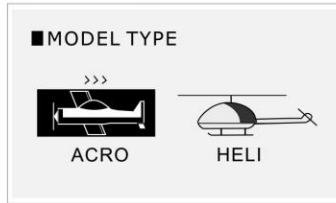
Rotate the roller to highlight the airplane(ACRO) then press to select. Then "download… …" showing on the Screen for seconds, while six "BBB… …BBB" sounds, it means set up successful, and returns to the previous Screen. The selected model type will display on the main screen.

Rotate the roller to highlight the helicopter(HELI) then press to select. Then "download… …" showing on the Screen for seconds, while six "BBB… …BBB" sounds, it means set up successful, and returns to the previous Screen. The selected model type will display on the main screen.
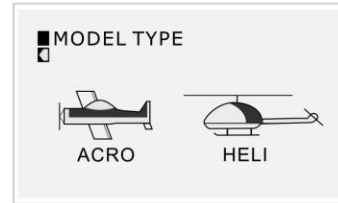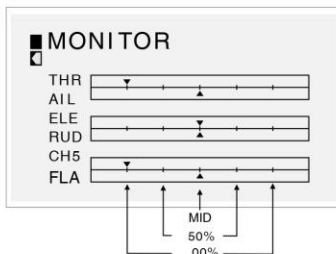
Return to the SET UP LIST menu.

34.MODEL NAME:

Model Name function assigns a name to a specific memory, so the model memory is easier to identify. The model memory number and a name is displayed on the Main screen. The name fills 8 character spaces chosen from spaces, symbols,numbers and letters.

Model memory number (1-10)

■MODEL NAME

MODEL 4   OK!

! ¯#¥%&[]＊+, −. / 01234
56789:;<=>?@ABCDEFGHI
JKLMNOPQRSTUVWXYZ↟↡←→

Name input Succeed

Position of the character that is currently being input

Characters that can be input

35.MONITOR:

This function is for monitoring the servo movements of each channel on the transmitter display screen.
The servo moment display is bar display with a vertical line in the center marking the neutral position. Centered around this to left and right are graduations marking the control surface angle 50% and 100% positions in order, and at each of the left and right ends there are the maximum control surface angle 150% position.
The movements in this function include all of the adjustments and mixing. Each of the display positions should be considered as a rough guide.
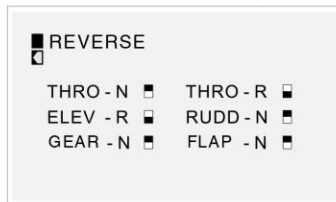

■MONITOR

THR
AIL
ELE
RUD
CH5
FLA

MID
50%
00%

36.REVERSE:

Reverse function changes servo throw direction for all 6 channels. Movement of a control stick or switch is NOT changed. Instead, a channel's response to transmitter input is reversed.
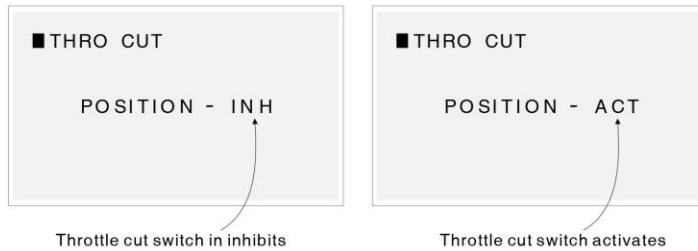N= Normal
R= Reverse
Note: Your aircraft manual may refer to this as changing transmitter flight control directions in the Control Test/Reverse controls section.

■REVERSE

THRO - N   THRO - R
ELEV - R   RUDD - N
GEAR - N   FLAP - N

37. THRO CUT:

Thro Cut function activates (ACT) or inhibits (INH) the Throttle Cut button. When an activated Throttle Cut button is pressed, the throttle moves to the low throttle, low trim position for safe and convenient shut down of the engine or removal of power to the electric motor.

```
■ THRO CUT


    POSITION - INH
                  ↑
```

Throttle cut switch in inhibits

```
■ THRO CUT


    POSITION - ACT
                  ↑
```

Throttle cut switch activates

38. WING TAIL:

Wing Tail Mix function supports Normal, Dual Aileron, V-Tail and Elevon (Delta) mixing. Refer to your model's manual for recommended settings. See Appendix for information about recom- mended wing type servo installations on scratch built models. Normal This normal or default setting for airplanes is 1 servo channel for aileron, 1 channel for elevator and 1 channel for the rudder. These common wing and tail functions are enabled when you set DUALAILE, ELEVON and V-TAIL at INH (inhibit).

```
■ WINGTAILMIX

  DUALAILE   INH
  V–TAIL     INH
  ELEVON     INH
```

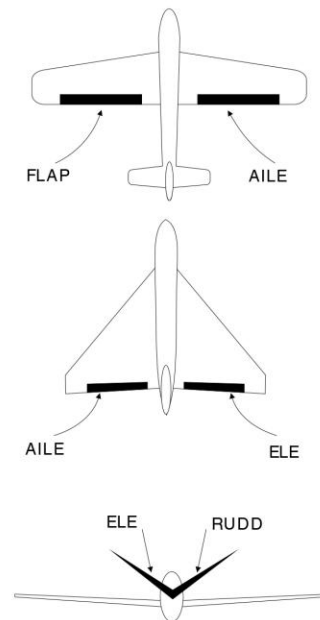*** Dual Aileron Wing Type Selection**
The connection will make a linkage between the servo connected to FLAP of the left wing aileron(AUX) and the servo connected to AILE of the right wing aileron.
Dual Aileron requires use of a servo for each aileron and sup- ports use of ailerons as flaps or spoilers. This function also supports precise independent adjustment of up and down travel, and independent sub-trim and differential for each aileron.

* V-tail Selection
The connection uses the servo connected to ELEV for the left tail moveable part, and the servo connected to RUDD for the right tail moveable part. When the V-TAIL setting is changed to active(ACT), V-YAIL operation will be set.
V-tail combines the elevator and rudder channels for pitch and yaw control when using a V-tail equipped airplane. This function also supports precise independent adjustment of up and down travel, and independent sub-trim and dual rate adjustments for V-tail control surfaces.
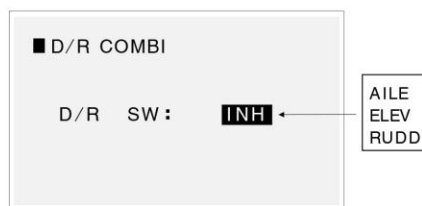
* Elevon Wing Type Selection
Elevon (Delta) wing combines aileron and elevator functions for precise control of roll and pitch.
The connection will make a linkage between the servo connected to AILE of the left wing movable part and the servo connected to ELEV of the right wing movable part.
By setting ELEVON to ON, the elevons will operate. Further, because the left and right control surface angle adjustment of the corresponding channels will be carried our separately for each servo, the adjustment of the movement amount of each stick operation should be carried out using dual rate.
The reverse switches correspond to each of the servos. Further, the individual servo neutral adjustments should be implemented according to the SUB TRIM section
Note: Delta or Elevon Mixing is for flying-wing airplanes and uses 2 servos in the wing to control 2 trailing edge-control surfaces for pitch and roll control.

FLAP   AILE

AILE   ELE

ELE   RUDD

39. D/R COMBI:

The Dual Rate Combi function allows you to assign a switch for combining D/R&EXPO. You can assign aileron, elevator and rudder dual rate and exponential functions to 1 of 3 common switches so dual rates/expo for all 3 channels is enabled by one switch.
INH:Options（INH,AILE,ELEV or RUDD switches.GEAR switch can be used in HELI mode.）

```
■ D/R COMBI


  D/R  SW:  INH ←        AILE
                         ELEV
                         RUDD
```
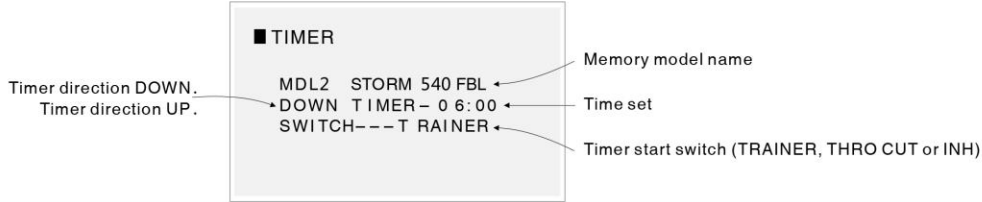
40. TIME：

The Timer function includes a timer on the Main screen and an audible alarm. When the time expires, 5 beeps sound every 5 seconds.
Timer DOWN – This sets a countdown（from up to 59 minutes and 50 seconds）.

Timer UP – This sets a count-up timer（up to 59 minutes and 50 seconds). The start time is programmable. The default start of 00:00 is recommended.
When the Timer function is enabled, the timer displays on the Main screen.
You can assign the Trainer Switch, Power On or Throttle Cut button to stop, start and reset the timer.

```
■TIMER

Timer direction DOWN.      MDL2   STORM 540 FBL  ← Memory model name
Timer direction UP.      → DOWN  TIMER – 0 6:00  ← Time set
                           SWITCH– – –T RAINER ←  Timer start switch (TRAINER, THRO CUT or INH)
```

41 RANGE CHECK

Range Check function activates or inhibits use of the Trainer switch to do a Range Check (which decreases transmitter output power).
A Trainer/Range Check switch position (When switch is held, ACT shows here)
1. Move the transmitter no less than 30 paces, approximately 90 feet (27m), from the model.
2. Face the model with the transmitter held in normal flying position.
3. Activate Range Check in the transmitter screen.
4. Pull and hold the trainer switch on the top left side of the transmitter .
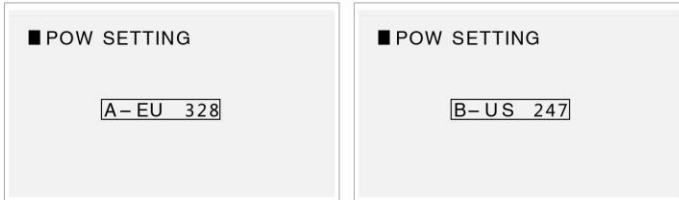5. Model should respond to all transmitter control inputs while the trainer switch is held.

```
■RANGECHECK                              ■RANGECHECK


   CHECK      INH                           CHECK      ACT
```

42. POW. SET：

The Power Setting function adjusts transmitter power output to conform to national standards. T-SIX offers two type of output power.
A-EU 328：it is appropriate for most European countries conforming to EU 300-328.
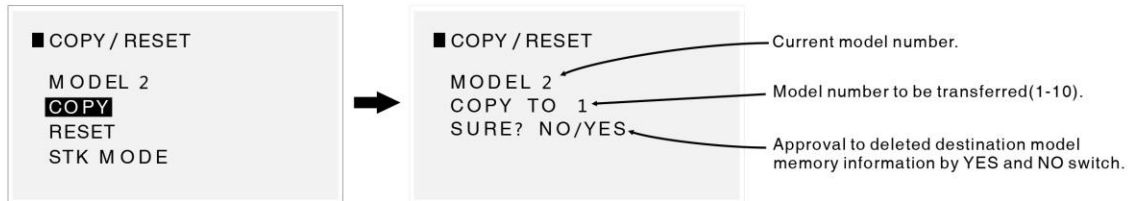B-US 247：it is for use in the United States and countries outside the European Union（EU）.

```
■POW SETTING              ■POW SETTING


   A–EU  328                  B–US  247
```

43. TX SETTING:

In this function can be select the battery type, note sounds, LCD visibility and the black light time for this radio.
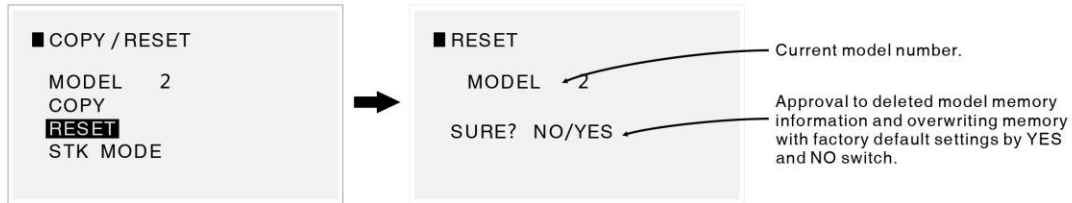
```
■TX SETTING

 BATTERY TYPE:NIMH/4S
          4.6V
 SOUND MODE:ON
   CONTRAST:50%
 BLACK LINGHT:01:30
```

BATTERY TYPE: 1.2V or 1.6V NIMH BATTERY *4, 2sells/ 7.4V Li-Poly battery *1, and 5#AA battery *4.
Note: all of the batteries should be work with JST plugger and connect with properly pole.

SOUND MODE:ON\OFF:The note sounds switch.
CONTRAST:0~100%:CONTRAST A CONTRAST List The Contrast function adjusts the image on the LCD for visibility in sunlight. The default value is 50%.
BLACK LINGHT:01:30:The starting time for the BLACK LIGHT, user can set up the starting time according your habits.
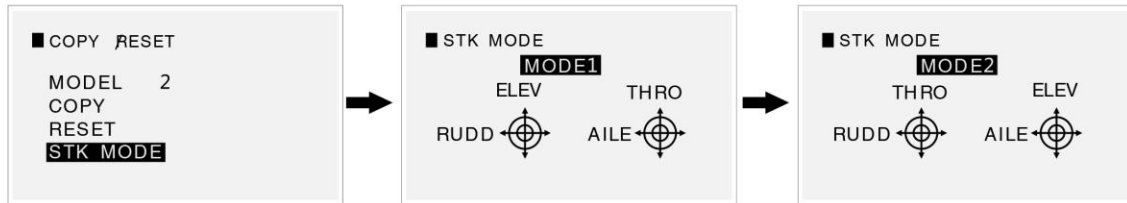
The Copy/Reset function supports copying the active model memory to any of the other 9 available model memories. This is useful for setting up a model with different programming or to set up a similar model.

```
■ COPY / RESET

    MODEL  2
    COPY
    RESET
    STK MODE
```

➡

```
■ COPY / RESET

    MODEL  2
    COPY  TO  1
    SURE?  NO/YES
```

— Current model number.

— Model number to be transferred(1-10).

— Approval to deleted destination model memory information by YES and NO switch.

This function presets all of the setting data of the current model to the initial conditions.

```
■ COPY / RESET

    MODEL    2
    COPY
    RESET
    STK MODE
```

➡

```
■ RESET

    MODEL    2

    SURE?  NO/YES
```

— Current model number.

— Approval to deleted model memory information and overwriting memory with factory default settings by YES and NO switch.

The mode of the sticks can be chosen with this function. You can choose from Mode1 or Mode2.
You will need to remove the back case transmitter cover and swap the throttle ratchet and elevator spring.

```
■ COPY  RESET

    MODEL    2
    COPY
    RESET
    STK MODE
```

➡

```
■ STK MODE
          MODE1
    ELEV        THRO

    RUDD ⊕    AILE ⊕
```

➡

```
■ STK MODE
          MODE2
    THRO        ELEV

    RUDD ⊕    AILE ⊕
```

SET UP LIST: Rotating the ROLLER to the FUNC.LIST from SET UP LIST, then press the ROLLOER to select the FUNC.LIST.
When FUNC.LIST appears on the screen, release the roller. And all of the FUNC.LIST shows as below.

```
■ SETUP LIST         2 / 2

    TX SETTING
    COPY/RESET
    FUNC.LIST
```

➡

```
■ FUNCTION LIST
    ◄

    MODEL SET      MIX 1
    D/R&EXPO       MIX 2
    TRAVEL ADJ     DIFFERENT
    SUB TRIM       SETUP LIST
    FLAPS
```

ORANGE RX

T-SIX

6 CHANNEL TRANSMITTER
DIGITAL PROPORTIONAL RADIO CONTROL SYSTEM
PROGRAMABLE SYSTEM