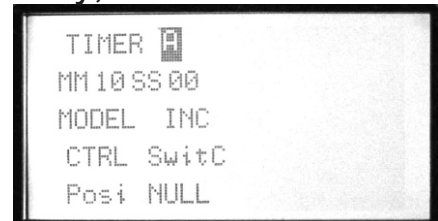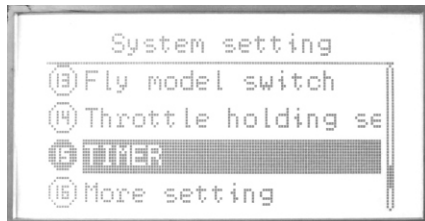## 15. TIMER

This function is to control two electronic clocks used to keep track of time remaining in a competition time allowed, flying time on a tank of fuel, amount of time on a battery, etc.

```
        System setting
(13)Fly model switch
(14)Throttle holding se
(15)TIMER
(16)More setting
```

```
TIMER A
MM10SS00
MODEL  INC
CTRL SwitC
Posi NULL
```

Setting Method

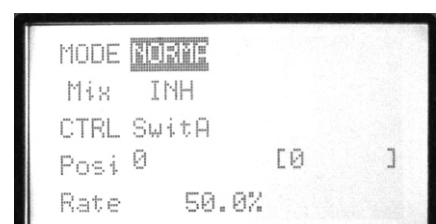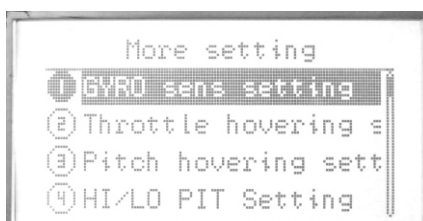Use up or down button to select **TIMER**, OK button is to enter editing.

Steps:

1. Use direction buttons to select editing part.
2. Use +/- button for proper adjustment,
3. Press EXIT after setting.

16. More setting

```
        System setting
(13)Fly model switch
(14)Throttle holding se
(15)TIMER
(16)More setting
```
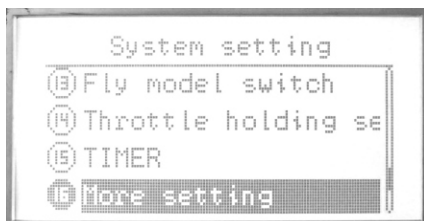
(1). GYRO sens setting

A good gyro will totally eliminate the need for revo.mixing. The gyro wil sense and correct the unwanted motion for you, so you don't have to spend time to get a complex curve operating properly. It simplifies adjusting/selecting the gyro sensitivity, and can provide more than 2 gyro gain settings. (The higher the gain, the more correction the gyro provides and the "softer" or less responsive the helicopter feels) This function makes the best possible use of the infight adjustable gain of most gyros.

```
        More setting
(1)GYRO sens setting
(2)Throttle hovering s
(3)Pitch hovering sett
(4)HI/LO PIT Setting
```

```
MODE NORMA
 Mix  INH
CTRL SwitA
Posi 0        [0      ]
Rate    50.0%
```

Setting Method

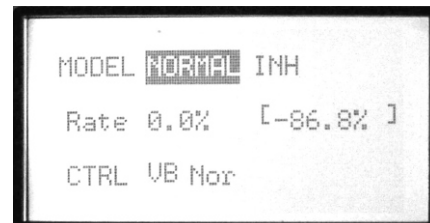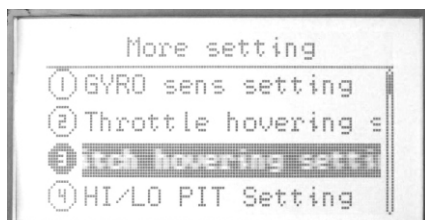Use up or down button to select **GYRO sens setting**, OK button is to enter editing.

Steps:

1. Use direction buttons to select editing part.
2. Use +/- button for proper adjustment,
3. Press EXIT after setting

(2). Throttle hovering setting

(3). Pitch hovering setting

This function is to set the throttle curve trim at the hovering point.

Hovering throttle and hovering pitch are fine-tuning adjustments for the throttle and collective pitch curves individually, affecting performance only around the center point and only in the normal condition. They allow in-flight tweaking of the curves for ideal setup.
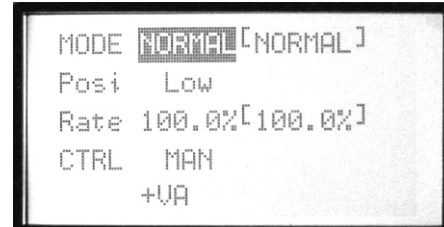
Setting Method

Use up or down button to select **Throttle hovering setting/ Pitch hovering setting**, OK button is to enter editing.
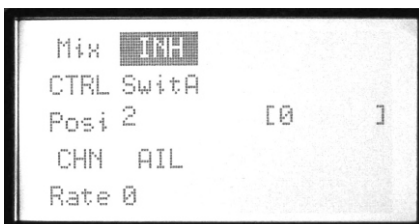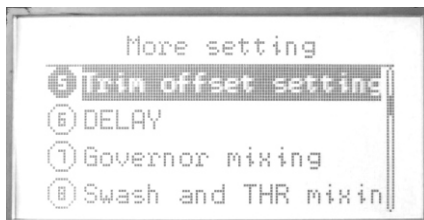
Steps:

1. Use direction buttons to select editing part.
2. Use +/- button for proper adjustment.
3. Press EXIT after setting.

(4). HI/LO PIT setting

This function is to set the high and low pitch position at different flying modes.

```
        More setting
 ①GYRO sens setting
 ②Throttle hovering s
 ③Pitch hovering sett
 ④HI/LO PIT Setting
```

```
MODE  NORMAL[NORMAL]
Posi  Low
Rate  100.0%[100.0%]
CTRL   MAN
        +VA
```

(5). Trim offset setting

```
        More setting
 ⑤Trim offset setting
 ⑥DELAY
 ⑦Governor mixing
 ⑧Swash and THR mixin
```

This function is to adjust the servo trim at hovering state. Optional separate trims in addition to those for the normal condition. This function is used to automatically change the trim of a helicopter, for example, when transitioned from hover to flying at high speed. A clockwise-rotation rotor helicopter tends to drift to the right at high speed, so an aileron offset may be applied to offset the helicopter to the left. The necessary elevator offset varies with model geometry, so it must be determined by noting collective pitch changes at high speed. The rudder offset is affected by both revo. Mixing and trim lever movement while in the offset function.

```
 Mix  INH
 CTRL SwitA
 Posi 2        [0      ]
 CHN  AIL
 Rate 0
```

Set up separate trims for each of the three idle-up conditions.
Adjust the idle-up 2 rudder trim to correct for torque at high speeds.
Steps:
1. Open the OFFSET function.
2. Change switch setting to COND.
3. Select IDL2
4. Adjust trim settings as needed.(Ex: rudder to +8%)
5. Close menus and confirm difference in trims between nornal and idle-up 2.
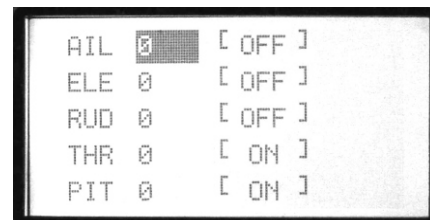
(6). DELAY

This function is to delay the aerobatics or throttle cut when the helicopter is in the air so that to avoid the big trim change.
The Delay function provides a smooth transition between the trim positions whenever OFFSET, REVO. MIXING, or THROTTLE HOLD functions are turned on and off.

Set up a delay on all 3 channels to ease the transition from one flight condition to another so there are "hard jumps".
Steps:
1. Open the DELAY function.
2. Adjust AIL response as needed. (Ex: aileron to +8%)
3. Repeat for other channels.
4. Close menus and confirm slowed transitions.

```
        More setting
  (5)Trim offset setting
  (6) DELAY
  (7) Governor mixing
  (8)Swash and THR mixin
```

```
  AIL  0    [ OFF ]
  ELE  0    [ OFF ]
  RUD  0    [ OFF ]
  THR  0    [ ON ]
  PIT  0    [ ON ]
```

(7). Governor mixing
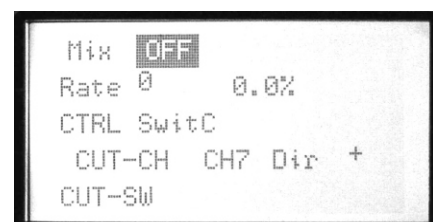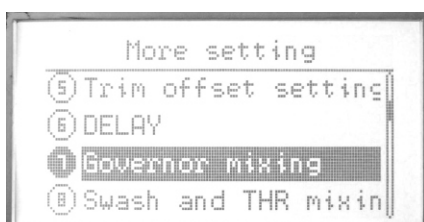
This function is to set the governor.
The Governor mixing function is used to adjust the GV-1(Governor) speed settings(rS1,rS2,rS3) from the transmitter.

Set up a Gv1 governor to use both channels into the reeiver and switch between the governor settings automatically when changing conditions.
Consider setting the battery FailSafe settings and other helpful functions on the GV-1 itself.
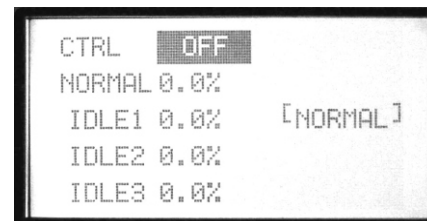Steps:
1. Open and activate the GOVERNOR function.
2. Optional: change cut-off channel to channel 8 and assign switch and direction for on/off(channel 8).
3. Optional: change switch assignment to select governor settings. Ex: select switch that selects the conditions.
4. Adjust governor speed settings per switch position or condition as needed.(Ex: defaults are fine.) Allows head speed adjustment from transmitter.
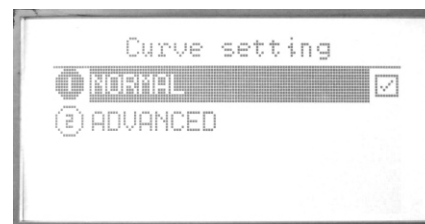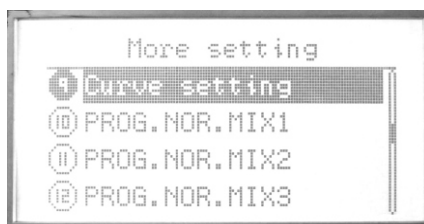5. Close the function.

```
        More setting
  (5)Trim offset setting
  (6) DELAY
  (7)Governor mixing
  (8)Swash and THR mixin
```

```
  Mix  OFF
  Rate 0      0.0%
  CTRL SwitC
   CUT-CH  CH7 Dir  +
  CUT-SW
```

(8). Swash and THR mixing

This function is to adjust throttle and pitch mix function.

```
      More setting
⑤Trim offset setting
⑥DELAY
⑦Governor mixing
⑧ Wash and THR mixing
```

```
CTRL      OFF
NORMAL 0.0%
  IDLE1 0.0%    [NORMAL]
  IDLE2 0.0%
  IDLE3 0.0%
```

(9). Curve Setting

There are 2 kinds of setting, Normal and Advanced.

```
      More setting
⑨ Curve setting
⑩PROG.NOR.MIX1
⑪PROG.NOR.MIX2
⑫PROG.NOR.MIX3
```

```
     Curve setting
① NORMAL           ☑
② ADVANCED
```

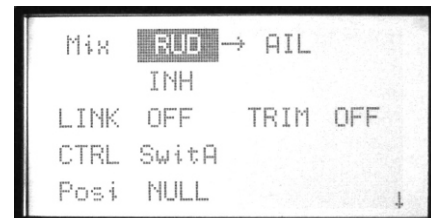## (10)-(16). PROG. NOR. MIX1-7

The mix program is to adjust the flying pose. There are 7series programs with the same set method.

```
        More setting
  ⑨ Curve setting
  ⑩ PROG.NOR.MIX1
  ⑪ PROG.NOR.MIX2
  ⑫ PROG.NOR.MIX3
```

```
  Mix   AIL → RUD
            INH
  LINK  OFF     TRIM  OFF
  CTRL  SwitD
  Posi  NULL              ↓
```
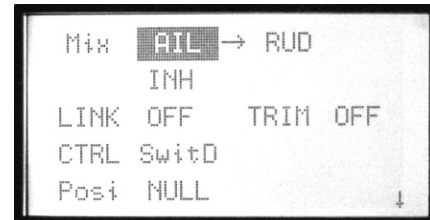
(17)-(20). PROG. CUR. MIX1-4

There are 4 serious curve mix program, the curve is made up by 2 to 11 point.

```
        More setting
  ⑰ PROG.CUR.MIX1
  ⑱ PROG.CUR.MIX2
  ⑲ PROG.CUR.MIX3
  ⑳ PROG.CUR.MIX4
```

```
  Mix   RUD → AIL
            INH
  LINK  OFF     TRIM  OFF
  CTRL  SwitA
  Posi  NULL              ↓
```

(21). Throttle needle mixing

Throttle needle is a pre-programmed mix that automatically moves an in-flight mixture servo in response to the Throttle Stick imputs for perfect engine tuning at all throttle settings. This function is particularly popular with contest pilots who fly in a large variety of locations, needing regular engine tuning adjustments, and requiring perfect engine response at all times and in all maneuvers. Also popular to minimize flooding at idle of inverted engine installations or installations with a high tank position. Not need for fuel injection engine, which do this automatically.
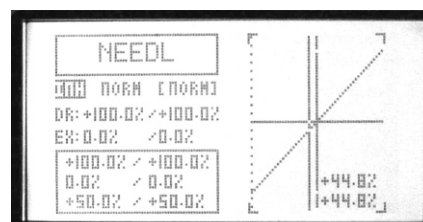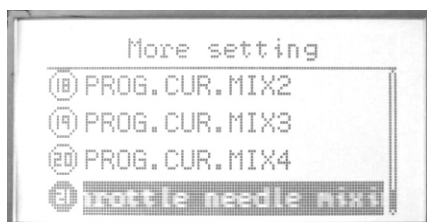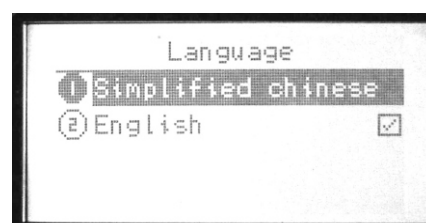

Setting Method

Use up or down button to select **Throttle needle mixing**, OK button is to enter editing.

Steps:

1. Use direction buttons to select editing part.
2. Ajust the travels as needed to match your engine by slowly moving the stick to each of the points, then adjusting the percentage at that point until the engine is properly tuned.
3. Set curves for other conditions.
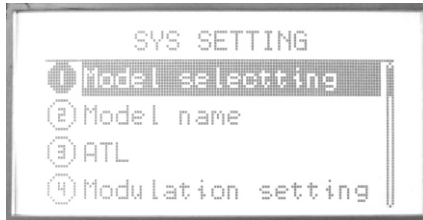4. Press EXIT after setting.

17. Language

This function is to select the language, Simplified Chinese and English can be selected.

SYS SETTING

1.Model selectting

There are 10 helicopter models.

```
     SYS SETTING
① Model selectting
② Model name
③ ATL
④ Modulation setting
```

```
    Model selectting

MODEL1 [CJ01MODE] PCM
```
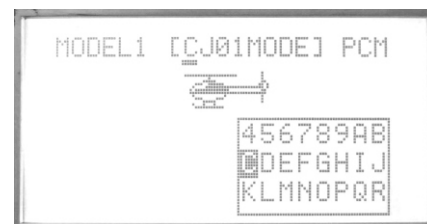
Setting Method
Use up or down button to select Model selecting, OK button is to enter editing.
Steps:
1. Use direction buttons to select the model.
2. Press OK button.
3. Press EXIT after setting.

2. Model name

This function is to make new names by users.

```
MODEL1 [CJ01MODE] PCM

         456789AB
         DEFGHIJ
         KLMNOPQR
```

Setting Method
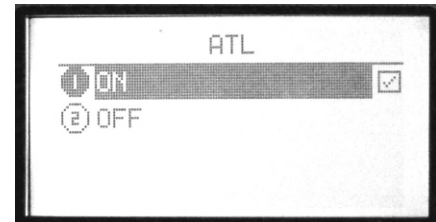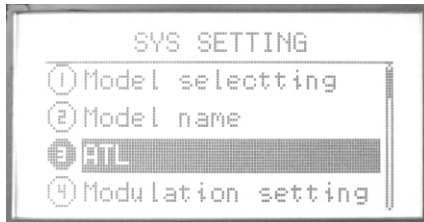Use up or down button to select Model selecting, OK button is to enter editing.
Steps:
1. You can edit the underlined letter
2. Press OK button to choose the word you like.
3. Press EXIT after setting.

25

3.ATL

Adjustable travel limit (ATL) makes the channel 3 TRIM LEVER (THROTTLE TRIM) effective only at low throttle, disabling the trim at high throttle. This prevents pushrod jamming due to idling trim changes. This function defaults to ON. If you are not using channel 3 for throttle, youmay want trim operation the same as on all other channels. To do so, set ATL to OFF.
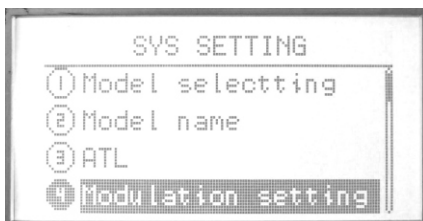

Setting Method

Use up or down button to select Model selecting, OK button is to enter editing.

Steps:

1. Use direction buttons to select the model.
2. Press OK button.
3. Press EXIT after setting.

4.Modulation setting

Because of the different receiver modulation PPM/PCM, the transmitter should be accordance with the receiver modulation.
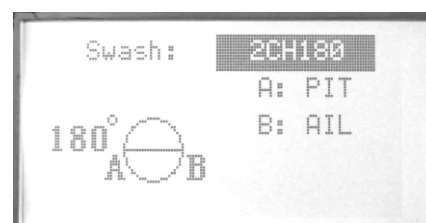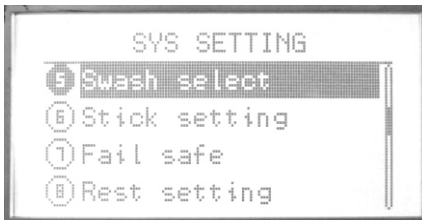
Setting Method

Use up or down button to select Modulation setting, OK button is to enter editing.

PPM and PCM is selectable.

5.Swash select

There are 6 kinds of swash. You can select the swash you preferred.
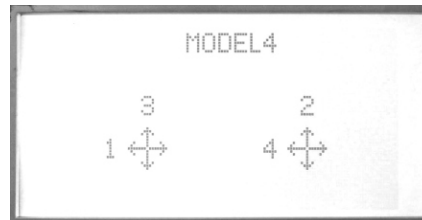
```
      SYS SETTING
 ⑤ Swash select
 ⑥ Stick setting
 ⑦ Fail safe
 ⑧ Rest setting
```

```
Swash:    3CH120
               A: PIT
    B          B: AIL
120° ⊕ C       C: ELE
    A
```

```
Swash:    3CH140
               A: PIT
    B          B: AIL
140° ⊕ C       C: ELE
    A
```

```
Swash:    3CH90
               A: PIT
           B   B: AIL
90°A ⊕         C: ELE
    C
```

```
Swash:    4CH90
    D          A: PIT
           B   B: AIL
90°A ⊕         C: ELE
    C          D: AUX3
```

```
Swash:    NORMAL
```

```
Swash:    2CH180
               A: PIT
180°           B: AIL
   A ⊕ B
```
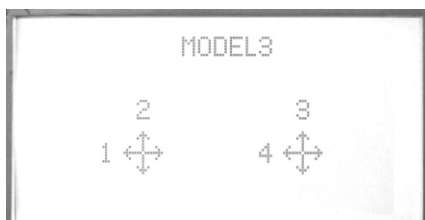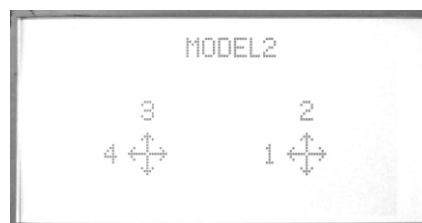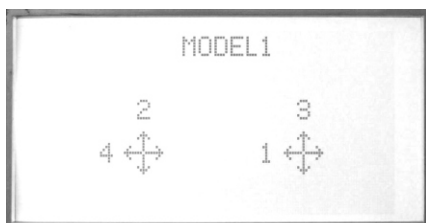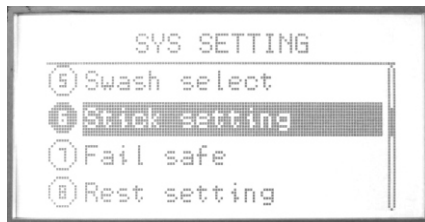
Setting Method
Use up or down button to select Model selecting, OK button is to enter editing.
Steps:
1. Use +/- buttons to select the model.
2. Press OK button to choose.
3. Press EXIT after setting.

6.Stick setting

There are 4 kinds of model, you can use up and down direction button to select the model you preferred.

```
SYS SETTING
(5) Swash select
(6) Stick setting
(7) Fail safe
(8) Rest setting
```

```
MODEL1

    2              3
  4 ⬌          1 ⬌
```

```
MODEL2

    3              2
  4 ⬌          1 ⬌
```

```
MODEL3

    2              3
  1 ⬌          4 ⬌
```

```
MODEL4

    3              2
  1 ⬌          4 ⬌
```

Setting Method
Use up or down button to select **Stick setting**, OK button is to enter editing.
Steps:
1. Use up and down direction buttons to select the model.
2. Press OK button to choose.
3. Press EXIT after setting.

7.Fail safe

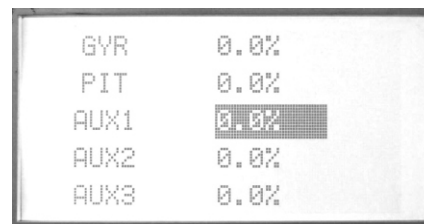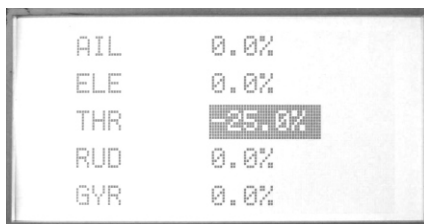This function is to set responses in case of loss of signal or low RX battery.

```
        SYS SETTING
   ⑤Swash select
   ⑥Stick setting
   ⑦Fail safe
   ⑧Rest setting
```

Setting Method

Use up or down button to select Fail safe, OK button is to enter editing.

Steps:

1. Use direction buttons to select editing part.
2. Choose Channel to change.
3. Set and confirm fail safe conmmand.
4. Press EXIT after setting.

```
   AIL     0.0%              GYR     0.0%
   ELE     0.0%              PIT     0.0%
   THR    -25.0%             AUX1    0.0%
   RUD     0.0%              AUX2    0.0%
   GYR     0.0%              AUX3    0.0%
```
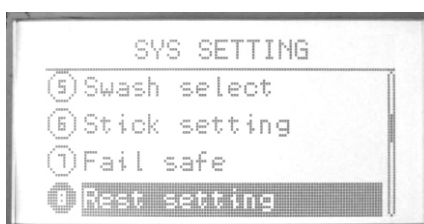
8.Rest setting

This function is to back default.

Setting Method
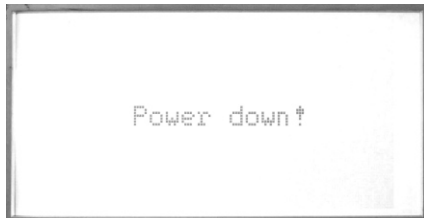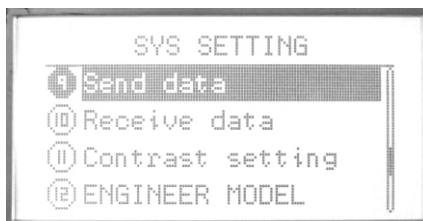
Use up or down button to select Reset setting, OK button is to enter editing.

You can select cancel or OK.

```
        SYS SETTING                    SYS SETTING
   ⑤Swash select              ⑤Sw  Power down!
   ⑥Stick setting             ⑥St  CANC    OK
   ⑦Fail safe                 ⑦Fail safe
   ⑧Rest setting              ⑧Rest setting
```

9. Send data

This function is to send the model parameter to another transmitter. By using a trainer cord, one transmitter can send the data to another transmitter.

SYS SETTING
⑨ Send data
⑩ Receive data
⑪ Contrast setting
⑫ ENGINEER MODEL

Model selectting

MODEL1 [CJ01MODE] PCM

Sending ...

Model selectting

MODEL1 [CJ01MODE] PPM

Power down!

Setting Method
Use up or down button to select Send data, OK button is to enter editing.
Steps:
1. Select the model data you need to send out.
2. Press OK to send.

10.Receive data

This function is to receive the model parameter to another transmitter. By using a trainer cord, one transmitter can receive the data from another transmitter.
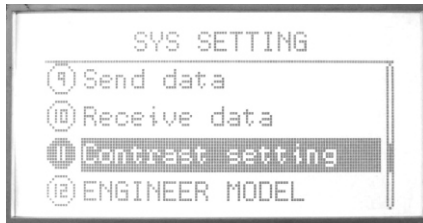
Receiving ...

READY

Power down!
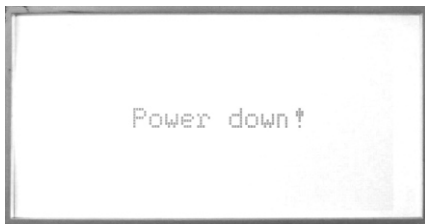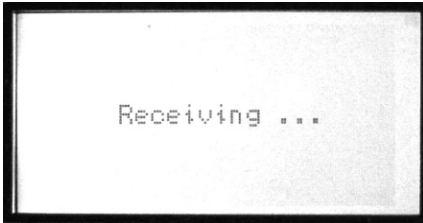
Setting Method

Use up or down button to select Receive data, OK button is to enter editing.

Steps:

1. **Press OK to receive data.**
2. Restart the transmitter after receiving the data.

11. Contrast setting

This function is to adjust the LCD brightness by increasing or decreasing the contrast value.
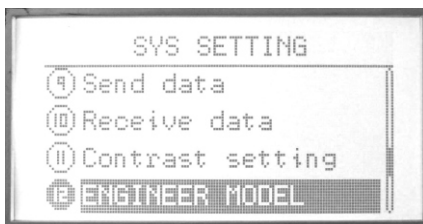
Setting Method

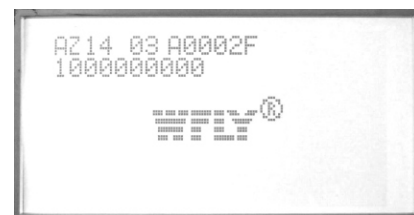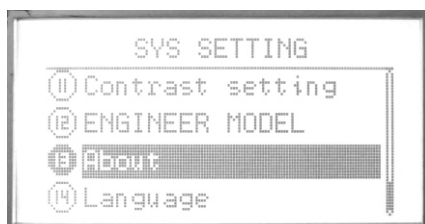Use up or down button to select Contrast setting, OK button is to enter editing.

Steps:

1. Use +/- button to increase or decrease the value.
2. Press OK button for a while is to back default.
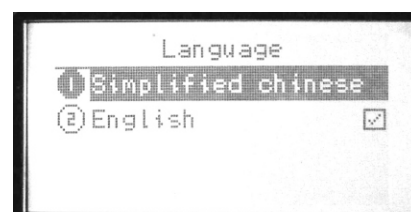3. Press EXIT after setting.

12. Engineer model

13. About

14. Language

This function is to select the language, Simplified Chinese and English can be selected.

TO THE PILOT

WFT09 is the first version. Thank you for using the radio. We welcome your valuable advice and we will make progress of the radio.

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WFLY

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