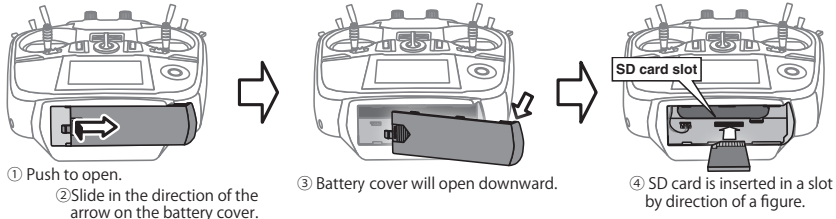# Futaba

T14SG SOFTWARE UPDATE MANUAL
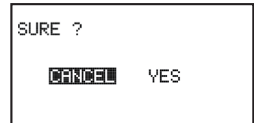
[Updating procedure]

1. SD card format

1. You should format the SD card first by using T14SG. When the SD card is formatted, all the data is deleted. Please do not format it when there is critical data.
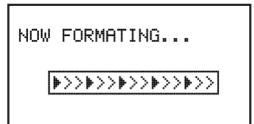

① Push to open.
②Slide in the direction of the arrow on the battery cover.

③ Battery cover will open downward.

④ SD card is inserted in a slot by direction of a figure.

2. Please turn on power switch of T14SG. If the SD card not formatted is set, the following screen is displayed. Please select "FORMAT" by scroll operation of touch sensor and touch "RTN" .
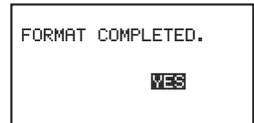
```
THIS CARD HAS
NOT BEEN INITIALIZED.
  CANCEL   FORMAT
```

3. Please select "YES" and touch "RTN" .

```
SURE ?

  CANCEL   YES
```

4. The following screen is displayed during formatting.

```
NOW FORMATING...

▶>>▶>>▶>>▶>>▶>>
```

5. When the format is completed, the following screen is displayed.

```
FORMAT COMPLETED.

         YES
```
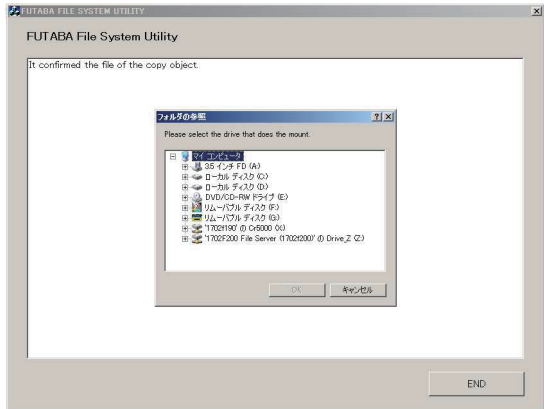
6. Please turn off power switch and detach the SD card from card slot.

2. Making of card for soft update
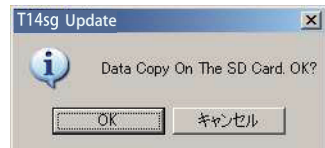
1. Please unzip the zipped file. The following files will create.

- **· T14sgUpdate.exe**   **... File copy utility**
- **· T14sgUpdate.dat**   **... Information file for T14sgUpdate.exe**
- **· T14SG_UPDATE.dat** ··· **Identified file of T14SG**
- **· T14SG_TS.bin**   **... Update file of T14SG (piece 3)**
- **· T14SG_AP.bin**   **... Update file of T14SG (piece 2)**
- **· T14SG_UPLD.bin**   **... Update file of T14SG (piece 1)**
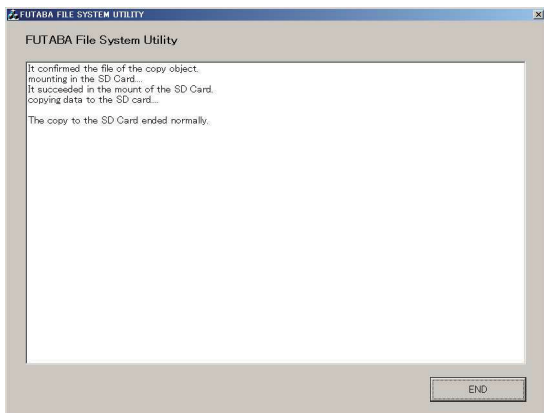
2. Please attach the SD card formatted to the card reader of PC.

3. Please run "T14sgUpdate.exe".

4. Please select the drive that attached the SD card. Click the "OK" button.

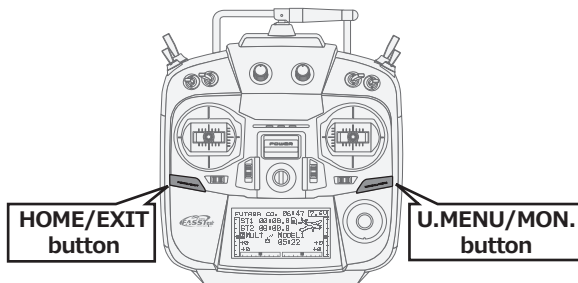**5.** Please select the drive that attached the SD card. Click the "OK" button.

6. Update files is copied to SD card, the following screens are displayed. Click "END" button.

3. Update software of T14SG

1. Please insert the SD card which includes the update file.

2. Push the **HOME/EXIT** button.

3. Keep pushing the **HOME/EXIT** button and turn on the power switch.

HOME/EXIT button

U.MENU/MON. button

4. The following screen is displayed after a few second.

```
PROGRAM UPDATE
  START : PUSH MON . 3SEC
```

5. Please push the **U.MENU/MON.** button for three seconds, a software update is begun.

```
PROGRAM UPDATE
  UP LOADING
```

6. When update is completed, the following screen is displayed. Please turn off power switch.

```
PROGRAM UPDATE
  COMPLETED
```

7. Please detach SD card.

```
SYSTEM MENU
TRAINER    : START SEL.
DISPLAY    : AUTO LOCK
USER NAME  : INFO
SOUND      : SBUS SERVO
H/W SET    :
```

8. Please check the software version at INFO in SYSTEM menu.

```
INFO
PRODUCT    012050002
RF ID      122920001
LANGUAGE   ENGLISH
VERSION    1.5
AREA       JAPAN
CARD SIZE  8/3766
```

T14SG Software Update Changes
(Version 1.51)

We recommend the update to Ver1.51 from Ver1.5 strongly. It is because defect was found in the touch sensor Ver1.5.

The contents of fault : When a power supply is turned on in the case of -5 ℃ (23° F)low temperature, there is a defect from which 14SG is set to <POWER MODE> to unexpected.

(Usually, it should be set to <POWER MODE>, if a power supply is turned on after touching RTN next.)

This problem will be solved if it updates to Ver1.51 from Ver1.5.

*This fault is only Ver1.5.

This software update modifies features found on the 14SG. If you have questions about these updated directions, please consult your instruction manual or futaba-rc.com for further details. Refer to the original manual where applicable but replace the steps indicated below with these instructions.
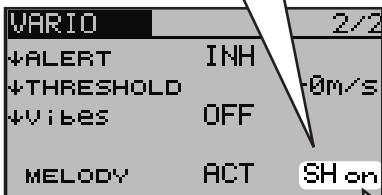
1.TELEMETRY: VARIO

The melody function can be turned on and off with the specified switch.

*The melody function plays a different electronic melody when rising and diving.

*To take advantage of this feature, a Futaba Telemetry Sensor (such as SBS-01A, SBS-01G, VARIO-F1712, VARIO-F1672 or GPS-F1672, sold separately) must be installed.

Melody function switch display. When the cursor is moved to this option and the RTN button is pushed, the display changes to the switch selection screen.
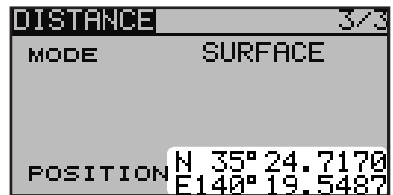


```
VARIO                    2/2
↓ALERT          INH
↓THRESHOLD            ↑0m/s
↓Vibes          OFF

   MELODY         ACT   SH on
```

When the melody function is active, "on" is displayed. When the melody function is set to INH or the switch is OFF, nothing is displayed.

2. TELEMETRY: DISTANCE

Position information (latitude and longitude) is displayed.

*Requires an SBS-01G or GPS-F1762 Telemetry Sensor (sold separately).


```
DISTANCE                 3/3
MODE           SURFACE



POSITION   N 35° 24.7170
           E140° 19.5487
```

Current position display.
N: North latitude, E: East longitude

3. TELEMETRY: EXT VOLTAGE

An alarm sounds when input voltage and the EXT voltage alarm are both set to 0V.

*In the past, when the input voltage was 0V, the alarm stopped.

*The receiver must have an Extra Voltage port, or a sensor (SBS-01V) sold separately or an EXT battery must be wired.


```
EXT-VOLT
                         7.4V
<MIN/MAX>
         7.4V            7.5V
↓ALERT          ACT
↓THRESHOLD            0.0V
↓Vibes          OFF
```

An alarm is activated, even when the input voltage is 0V (when set to 0V).

4.TELEMETRY:
CURRENT, VOLTAGE,CAPACITY

Compatible with the ROBBE current sensor (F1678). The current, voltage and battery capacity can be displayed. Please read the current sensor instruction manual for more information.

(Example of registration at slot No. 16)

```
TELEMETRY        Yil  2/2
16 CURRENT    16 CAPACITY
    +3.4A         +130mAh
CURR-1678     CURR-1678
16 VOLTAGE
       7.2V
CURR-1678
```

```
CURRENT             1/2
                   +4.9A
 <MIN/MAX>
     +0.0A         +4.9A
↑ALERT        INH
↑THRESHOLD        +100.0A
↑Vibes        OFF
```

```
VOLTAGE             1/2
                    7.2V
 <MIN/MAX>
       7.2V          7.5V
↑ALERT        INH
↑THRESHOLD         50.0V
↑Vibes        OFF
```

```
CAPACITY            1/2
                  +80mAh
 <MIN/MAX>
     +76mAh        +80mAh
↑ALERT        INH
↑THRESHOLD     +10,000mAh
↑Vibes        OFF
```

Sensor	The required number of slots	The number which can be used as a start slot	Selling area
CURR-F1678	3 slots	1,2,3,4,5,8,9,10,11,12,13,16,17,18,19,20,21,24,25,26,27,28,29	Europe

5.GOVERNOR MIXING (Corresponding model: helicopter)

This function transmits a reference signal from the transmitter for setting the governor side speed display. The governor and transmitter set values (speed display) can be matched.

*The CAL button can only be displayed in rpm mode.

In "ON", "CAL" appears

```
GOVERNOR    NORMAL
COND       NORMAL    ON
MODE 1000-2000rpm   CAL
RATE 1500      <1500rpm>
FINE TUNING
  --      +0rpm(   +0rpm
```

Button added to the reference signal output screen. (Displayed only in the rpm mode.)

① Move the cursor to the CAL button and touch the RTN button.

```
GOVERNOR    NORMAL
COND       NORMAL    ON
MODE 1000-2000rpm   CAL
RATE 1500      <1500rpm>
FINE TUNING
  --      +0rpm(   +0rpm)
```

② The display switches to the screen that transmits the reference signal.

```
GOVERNOR
rpm CALIBRATION
        OFF


MODE 1000-2000rpm
```

③ Move the cursor to OFF and touch the RTN button.

```
GOVERNOR
rpm CALIBRATION
       OFF


MODE 1000-2000rpm
```

④ Once it scrolls to the mode of your choice, touch the RTN button.

```
GOVERNOR

rpm CALIBRATION
        1500  rpm


MODE 1000-2000rpm
```

⑤ Set the transmitter's displayed speed. Adjust the governor's speed display on its side. (Refer to your governor's instruction manual on how to make proper adjustments).

6.Fault corrections

① Incorrect model condition naming from 8FG model data has been corrected.

② Operating failures which may have occurred when the logic and condition switches had identical settings have been corrected.

② Operating failures which may have occurred when the logic and condition switches had identical settings have been corrected.

③ When a power supply is turned on in the case of -5 ℃ (23°F)low temperature, there is a defect from which 14SG is set to <POWER MODE> to unexpected.

(Usually, it should be set to <POWER MODE>, if a power supply is turned on after touching RTN next.)

This problem will be solved if it updates to Ver1.51 from Ver1.5.