HiTEC

4 CHANNEL 2.4GHz SURFACE COMPUTER RADIO SYSTEM
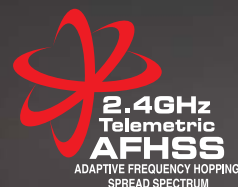
LYNX 4S

2.4GHz Telemetric AFHSS
ADAPTIVE FREQUENCY HOPPING SPREAD SPECTRUM

HiTEC

4 CHANNEL 2.4GHz SURFACE COMPUTER RADIO SYSTEM

LYNX 4S

Instruction

Telemetry Functions (Speed, Temp, RPM, Voltage and SPC)
Switchable Steering Wheel (Left/Right Hand)
Play Music Function (Speaker or Earphone)
Supports 11 Types of Car Mixing with 3 Step Slide Switch
Customizable Turn On & Warning Sound
6 Color Status LED

HHR
Hitec High Response

4096
Resolution

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Introduction

Thank you for selecting LYNX 4S radio.
Lynx 4S, as Hitec's new outstanding surface radio, is designed for all popular
R/C cars and boats which run by Radio Control System.

With various functions and easy-to-use interface, you can have more enjoyable and
safer R/C life through trusted Hitec's Bi-directional radio control system,
AFHSS (Advanced Frequency Hopping Spread Spectrum).

Before using your LYNX 4S 2.4GHz system, read this manual carefully in order to
use your R/C set safely and keep it for your future usages.

Please note that Hitec reserves the right to make production changes during the
life of our product lines that may impact the information in this manual.

For the most up-to-date information on this and any other Hitec product,
visit our web site at www.hitecrcd.com

HITEC

SAFETY PRECAUTION

Please read the ENTIRE safety precaution below for your safety as well as that of others before operation.

Do not operate under rainy day. Any types of moisture on the components can cause the
malfunction or loss of control that result unexpected accidents.

Do not operate when you cannot secure a clear view. With poor visibility,
you may unexpectedly lose control of your model and create a dangerous situation.

Do not operate your model near spectators, parking area or any other area that could result in
injury to people or damage of property.

Do not operate R/C boats where the passenger boats are present or the lake & river where the lives exist.

Please note that Radio Control System can be interfered by jamming when high tension power lines,
a power transmission tower or power transmission site are near.

Minors who are under 19 years old need parental guidance to control this item.
Also, we recommend beginners to get helps from experts or R/C shop near.

Do not store your R/C system in the places where it is extremely hot(over 40°C/104°F) or cold(under 10°/50°F),
where it is exposed to direct sunlight and where it is surrounded by too many vibrations or dusts.

Always ensure if everything works fine and setting for your model is well customized before running the model,
even if the set-up is already done.

Always check the throttle trigger on the transmitter to be sure it is at the neutral position when turning on the
transmitter power switch and also make sure the engine is not running or the motor is stopped when turning off
the transmitter power switch.

Please turn on the transmitter power switch first and then turn on the receiver or speed control power switch
in order. In case of turning off, please make sure to turn off the receiver and speed control power switch first and
then turn off the transmitter power switch in order. If the power switches are turned off in the opposite order,
the model may unexpectedly run out of control and cause a very dangerous situation.

In any cases, please set up the fail safe function. The fail safe function is a safety feature that minimizes set
damage by moving the servos to a preset position when reception fails.

When the model is not being used, always remove or disconnect the battery.
Leaving the battery connected could create a dangerous situation if someone accidentally turns on the
receiver power switch. Loss of control could occur.

Do not heat, drop the battery or expose it to strong shocks or vibrations.
It could be exploded and cause burns and chemical damage.

Do not leave the radio system or models within the reach of small children.
A small child may accidentally operate the system. This could cause a dangerous situation and injuries.
Also, small child could accidently swallow small parts and get hurt

Electrolyte to leak from the cells (Ni-MH) could cause skin burns, loss of sight, and other injuries.
When exposed by electrolyte, please wash off immediately and visit the doctor for proper action.

Always use only genuine transmitters, receivers, servos, ESCs (electronic speed controls),
Ni-MH/Ni-Cd batteries and other optional accessories. We will not be responsible for problems caused by the
use of other than our genuine parts. Use the parts specified in the instruction manual and catalog.

When exposed by fuel, motor spray, waste oil or exhaust, please wash it by a dry cloth. More severe case,
please use a drained soft cloth after washing with water or a neutral detergent.
Do not use Cleaner or Alcohol to clean up as those can damage the surface.

Receiver is the precision machinery. Do not expose it by strong vibrations, shocks or dusts.
Please use proper measures from this kind of riskiness.

INTRO

SET 1

SET 2

SYSTEM

MODEL

SD CARD

LYNX 4S LAYOUT

M. Dial /Push Button D3

L. Push /Lock Button B1

K. Power Switch / Display

J. Protection Cover (earphones port, PC port)

C. Dial D1 (Steering Dual Rate)

C. Dial D2 (Actual Travel Length)

I. Charging Port

A. Programming Button (Main Dial, ESC)

B. Digital Trim T1 (Steering Trim)

F. Steering Wheel

B. Digital Trim T2 (Steering Trim)

G. Digital Button B2 (4CH : AUX 2)

H. Grip Handle
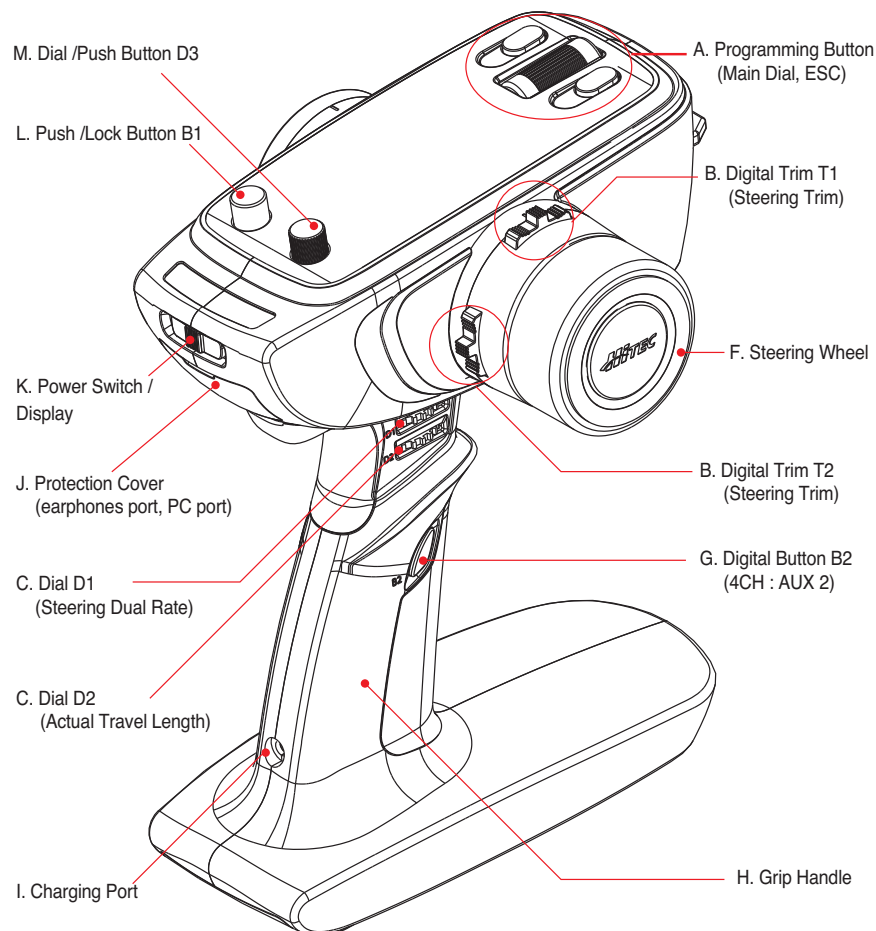
The function of Switch, Dial, Digital Trim on the picture is changeable.
This picture only shows default setup.

B. Digital Trim T3

P. 3-Position Slide Switch

O. LED Lamp

Q. Speaker

N. Battery Cover

D. Steering Tension Adjustment

E. Brake Limiter

S . Throttle Tension Adjustment

R. Throttle Trigger
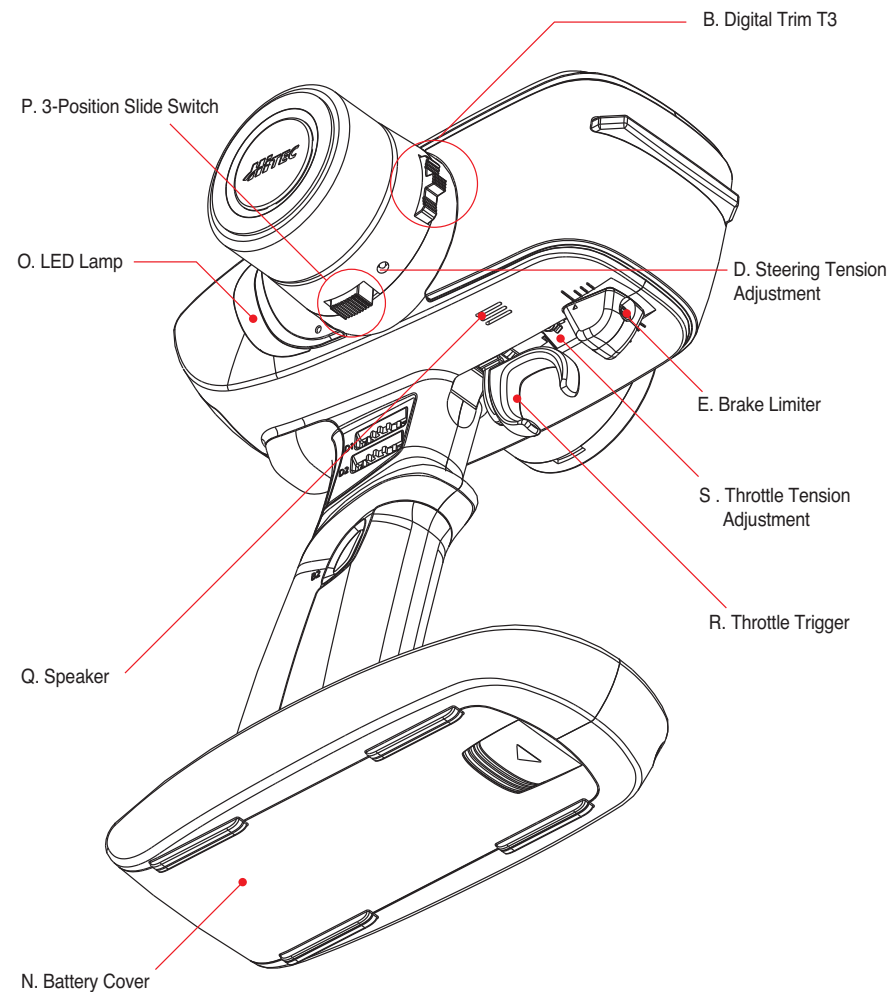
! NOTE
Please turn off the power switch after waiting more than 2 seconds, if you have changed function setup by Digital Button, Trim or ETC. If turning off without waiting after the setup changes, the changed setup might not be saved well.

INTRO
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A. Programming Button

Main Dial

Move the main dial to select or transfer the menu and you can change the set point or
reinitialize the set value by pressing the button.

[Scroll]   [Short Click]   [Long Click]
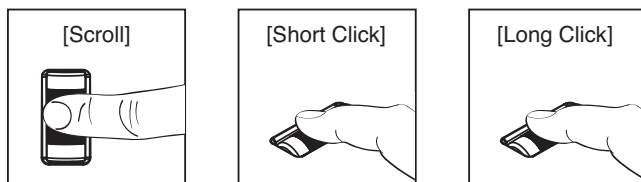
Scroll : Move on all function and display menus. Also, it can change the value by rotating,
        when the set value menu is selected.
Short Click : Select the menu or set value.
Long Click : Reinitialize the set value by clicking more than 1 second.

! NOTE
Do not press Main Dial excessively. It could cause malfunctions.

ESC button

Escape from the selected menu or get back to the previous menu.

B. Digital Trim (Steering / Throttle Trim)

Please set up the neutral position of servo right away when the servo's position has gone wrong.

! NOTE
Please adjust the servo horn or use S-TRIM setup,
if the car does not go straight after adjusted the trim to the max.

C. Dial D1 / D2

Through fast dial control, you can adjust the setup value quickly for 22 kind of functions on
Lynx 4S. For more detail, please refer to Page 38.

D. Steering Tension Adjustment

You can adjust the steering tension by using 1.5mm hex wrench.
To make the steering tension stiffer, please make the wrench turn clockwise.
Otherwise, to make the steering tension smoother, please make the wrench turn counterclockwise.

E. Brake Limiter

For the convenience of user, you can adjust the brake's max travel range of trigger by 2.5mm hex wrench.
To make the brake's travel range shorter, please make the wrench turn clockwise.
Otherwise, to make the brake's travel range longer, please make the wrench turn counterclockwise.

! NOTE
Please check and adjust the setup value of neutral position, throttle, EPA, EXP and so on again,
when you have set up the brake's travel range.

F. Steering Wheel

Control the direction of the model (steering)

G. Digital Button B2

Through Push/Lock type digital button, you can start or close 18 kinds of menus on Lynx 4S.
For more detail, please refer to Page 35.

H. Grip Handle

Through ergonomic design, you can feel the stable grip feeling when using Lynx 4S.

I. Charging Port

Must use Hitec's Lynx 4S Overnight Charger to charge the battery via built-in charging port of Lynx 4S.
It can be the malfunction to use other overnight chargers.

! NOTE
Some specifications do not include overnight chargers and it can depend on countries.

J. Protection Cover (earphones port, PC port)

By connecting to earphones or headphones, you can hear telemetry voice data or music from Lynx 4S.
By connecting to PC with HPP-22, you can update the firmware of Lynx 4S.

! NOTE
The sound quality can be different based on the earphones.

K. Power Switch / Display

Through 3-position switch, you can turn on the power of Lynx 4S and it shows on the display.
When switching it to right position, it turns on the power of Transmitter and RF module.
When switching it to left position, it turns on the power of Transmitter only, not RF module.

! NOTE
To prevent the unintended accident, should turn on the power of transmitter before receiver. And also,
should turn off the power of receiver first before transmitter.

L. Push/Lock button B1

Through Push/Lock type digital button, you can start or pause 9 kinds of menus on Lynx 4S. For more detail,
please refer to Page 35.

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M. Dial & Push button D3

Through Dial/Push combined button, you can control each Dial and Push button separately.
With D3 Dial button, you can adjust the setup value for 22 kind of functions on Lynx 4S.
With D3 Push button, you can adjust the setup value for 18 kind of functions on Lynx 4S.
For more detail, please refer to .

N. Battery cover

Battery cover protects the battery from the shock and dust.
Please check if it is closed well, when you replace the battery.

O. LED Lamp

Through the LED Lamp, it shows 6 colors to indicate Lynx 4S's status.

P. 3-Position Slide Switch SW1

Through 3-Position switch, you can adjust the setup value for 4 kind of functions on Lynx 4S.
Especially, this switch is very useful for Crawler model or the model with wheel individual control.

Q. Speaker

Through built-in speaker, you can hear telemetry voice data and music.

R. Throttle Trigger

Through throttle trigger, it control the model to go forward and backward or the brake.
You can have smoother and better grip feeling since SF coating is applied on the trigger.

S. Throttle Tension Adjustment

You can adjust the Throttle tension by using 1.5mm hex wrench.
To make the Throttle tension stiffer, please make the wrench turn clockwise.
Otherwise, to make the Throttle tension smoother, please make the wrench turn counterclockwise.

Battery Port and Micro SD card port

Through the battery port, you can use and Li-Fe, Li-Po, Ni-MH and Ni-CD batteries connected.
Also, by inserting Micro SD card, you can play music and telemetry voice data or expand the memory
(up to 30 models).
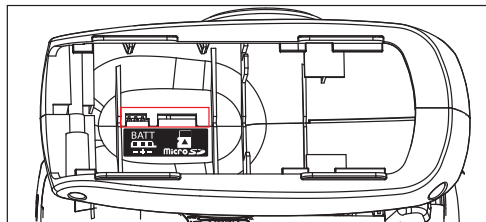
! NOTE
Battery port is designed to work even inserting the port with opposite polarity.

CHANGING WHEEL POSITION

By installing Extension Adapter included, you can change the wheel position.
It makes you to control Lynx 4S more comfortable, since steering wheel unit and
throttle trigger can be positioned at the same level.

How to disassemble Steering Wheel Unit

! NOTE
Please prepare a screw driver.

1. Lift the groove under the steering wheel cover to separate
2. Loosen 2.6X12mm screw bolt which fixes steering wheel
3. Pull the steering wheel adapter by hands to separate
4. Loosen 3X28mm screw bolt which fixes wheel unit
5. Disconnect the cable which connected with Steering Gimbal unit

3X28mm Screw Bolt

Wheel Sponge

Steering Wheel

2.6X12mm Screw Bolt

Wheel Cover
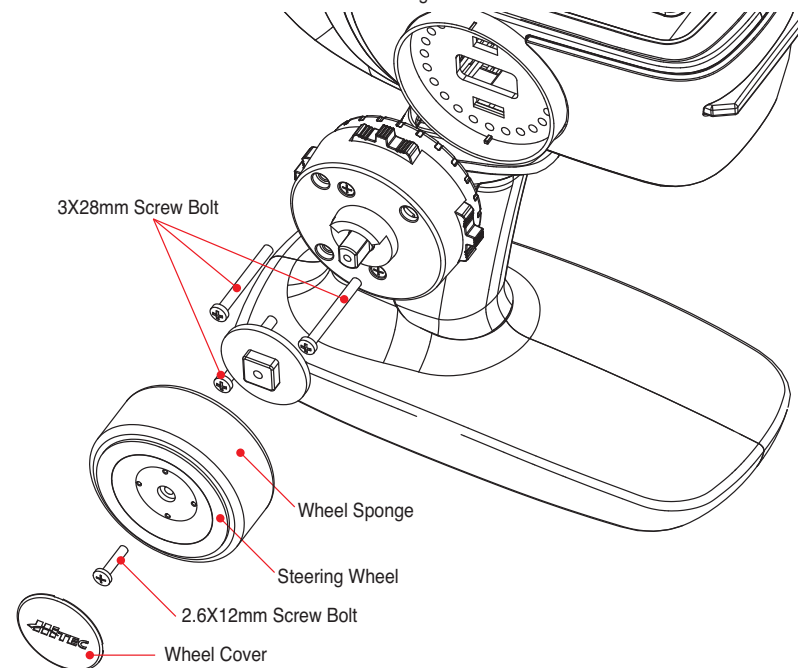
! NOTE
Do not fasten or loosen the bolt forcefully.
It can cause the malfunction.

How to assemble the Extension Unit

! NOTE
Please prepare a screw driver and 2.4mm hex wrench.

1. Connect TX wire to Steering Gimbal unit passing through the hole of extension adapter
2. Fix the extension adapter by fastening 3X20mm hex bolt using 2.5mm hex wrench
3. Fix the wheel unit using 3X28mm screw bolt
4. Assemble the steering wheel adapter by hands
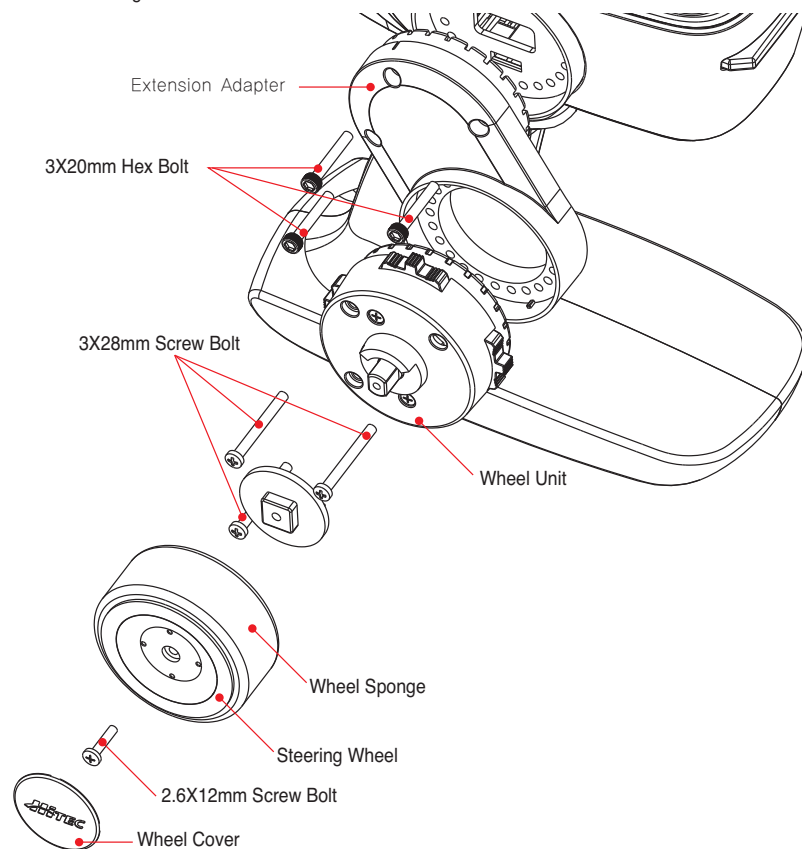5. Fix the steering wheel using 2.6X12mm screw bolt
6. Fix the steering wheel cover

Extension Adapter

3X20mm Hex Bolt

3X28mm Screw Bolt

Wheel Unit

Wheel Sponge

Steering Wheel

2.6X12mm Screw Bolt

Wheel Cover

! NOTE
Please take care of the wire not to be squashed or stabbed.

MODIFYING FOR LEFT-HAND USE

For Left-hand user, you can change the position of steering wheel as below.

How to assemble the steering wheel unit for left-hand user

! NOTE
Please prepare a screw driver.

1. Please disassemble the steering wheel unit
   You can refer to Page 11 for detailed explanation
2. Lift the groove under the steering wheel cover at the opposite side to separate
3. Pull out the wire from right side to the left side at the wheel cover
4. Assemble the TX in reverse order of disassembly, after connecting the wire to wheel unit
5. Assemble the battery cover at the right side

! NOTE
Please take care of the wire not to be squashed or stabbed.
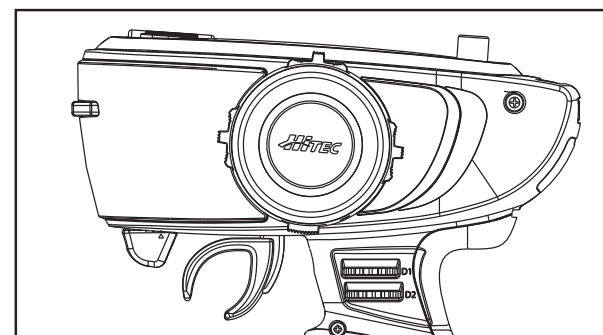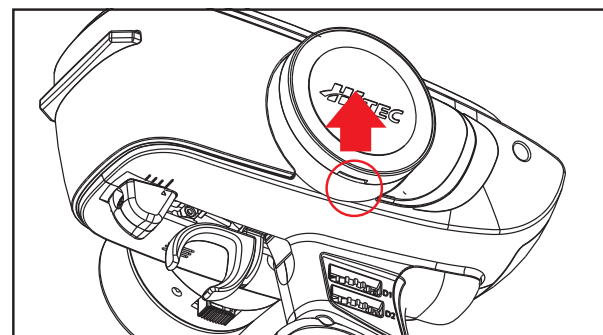
INTRO
SET 1
SET 2
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GRIP RUBBER & NECK STRAP HOLDER

You can replace the grip rubber installed to the one with other size which is more suitable for your hands. And you can install the holder to use neck strap.

1. Pull out the grip rubber down as the picture below
2. Separate the grip rubber completely
3. Fix the holder using enclosed holder and bolts
4. Assemble the grip rubber back again
5. In case of replacing to the thicker grip rubber, please follow the same way

! NOTE
Please take care of the wire not to be squashed or stabbed.

RECEIVER
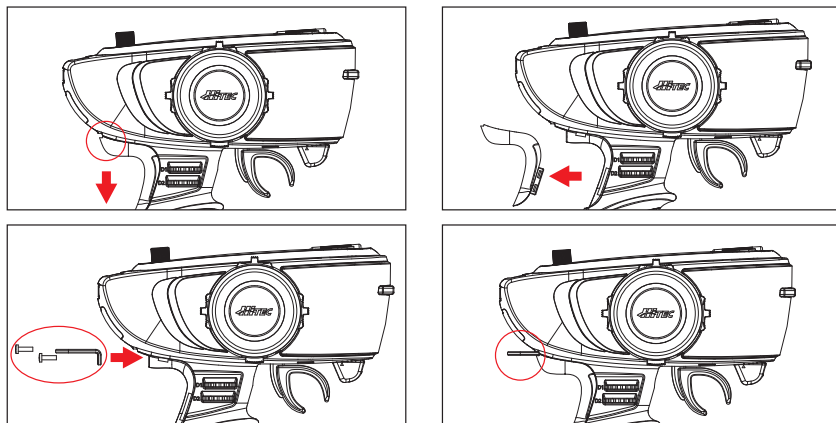
Through Hitec's new AFHHSS (Adaptive Frequency Hopping Spread Spectrum) 2.4GHz system, it shows outstanding and stable performances.

Receiver Model	Size	Weight	Stock Number
AXION 2	1.26 x 0.87 x 0.43in (32 x 22.3 x 11mm)	0.25oz (7.0g)	27724
AXION 4	1.26 x 0.87 x 0.43in (32 x 22.3 x 11mm)	0.25oz (7.0g)	27824

⊗ Warning

1. The receiver antenna should not be placed near the engine, metal parts, or high current batteries
2. The receiver Antenna should not get damaged. To prevent antenna damage,
   do not install the antenna near the sharp edge or bend it more than 90 degree in angle
3. Use a Velcro or think double sided tape to install to absolve the shock during the operation
4. When LED indicator irregularly blinks, indicates unstable frequency environment,
   stop operating and look for the possible cause of problems

AXION 2 & AXION 4
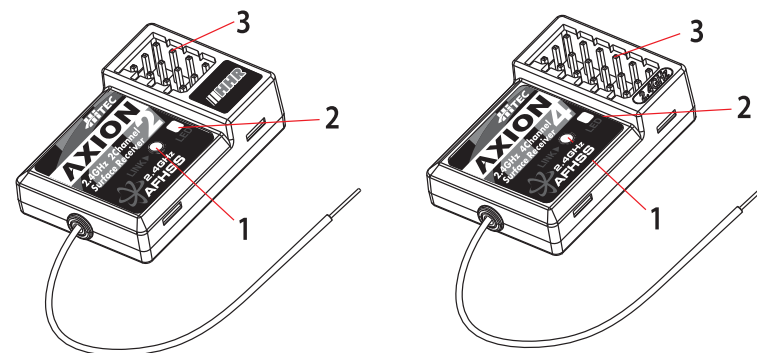
1. Function Button
Used for linking the receiver to a Transmitter, To select response.

2. LED Status Indicator
Indicates the set-up process codes and current status of AXION receivers.

3. Channel Output and Battery Input Ports
The ports for battery, servos and other accessories.

PROTON 4

1. Function Button
Used for linking the receiver to a Transmitter, To select response.

2. LED Status Indicator
Indicates the set-up process codes and current
status of Proton4 receivers.

3. Channel Output and Battery Input Ports
The ports for battery, servos and other accessories.
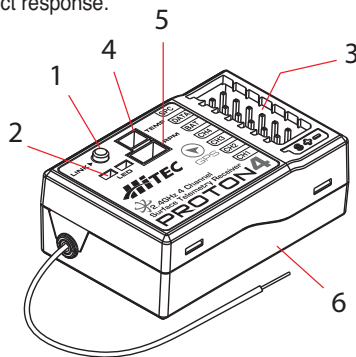
4. Temp Port
Temperature can be checked via Temp sensor and
Temp Alarm also canbe set.

5. RPM Port
RPM and Speed can be checked via RPM sensor.

6. GPS Sensor (installed)
GPS sensor is installed already in Proton 4 receiver to gauge your car speed.

Operating Voltage:
Rechargeable four to six cell NiMH, NiCd, or LiPo batteries (4.8~7.4V).
From the receiver batterypower or speed control (ESC) power.
Select the suitable voltage depends on the servos capability.

HTS-TEMP [Temperature Sensor]
Temp Sensor can be used by just plug it into the PROTON4 receiver without
sensor station. Attach the sensor on target surface such as Motor,
ESC and Body of Glow/Gas engine. Gauge Range: 0~250 'C, 32~ 482 'F

HTS-MRPM (RPM Sensor)
RPM Sensor can be used by just plug it into the Proton 4 receiver without
sensor station. Attach the sensor on target surface such as Spur gear,
Fly wheel or Etc. Gauge Range: 0~99999 RPM

GPS Sensor (Built-in RX Type)
GPS Speed sensor is installed in the Proton 4 receiver already. You can gauge your car speed via
Lynx 4S screen just using Proton 4 receiver without any attachment.
Range : 0~250km/H * Since GPS is not working on inside of building or indoor place,
please use this function on outdoor environment.

RECEIVER INSTALLATION

Receiver is the precision machinery. Do not expose it by strong vibrations,
shocks or dusts. Please use proper measures from this kind of riskiness like sponge pads or
thick double-sided tapes. Do not bend or cut the end of 2.4GHz RXs antenna wire.
Please refer to the picture below for the proper installation.

Sponge Pad

Double-sided tape

Installation section
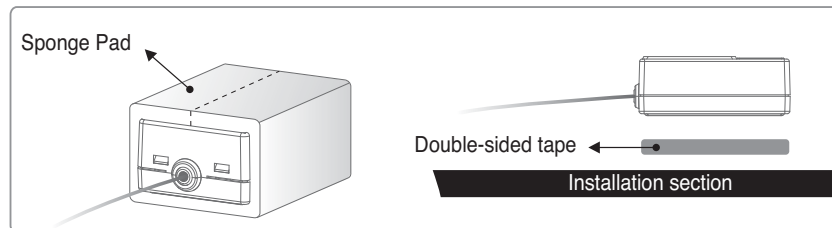
⊗ Warning

Please protect the antenna by using rubber tube.
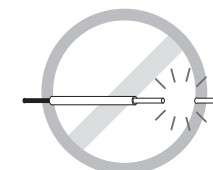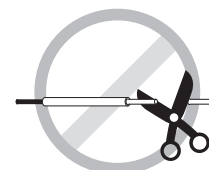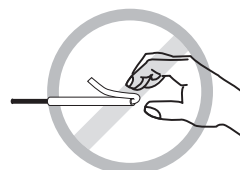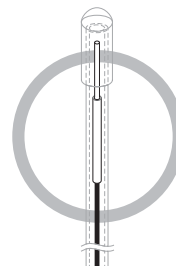
Do not
bend the antenna.

Do not
cut the antenna.

Do not
use the broken antenna.

! NOTE
Please install receivers far away from battery, motor, ESC and engines which generate noises
as much as possible. Especially, please keep the antenna away.

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RECEIVER CONNECTION DIAGRAMS

Each cases of car models, please install receivers as the picture below.
Please find the example below which shows the installation of receivers on 2 channel system car model. It can be changed by installed ESC or engine.

Receiver Connection Diagrams (AXION 2)
Electric powered car with Electronic Speed Controller Use this method on electric car using ESC's providing power to the receiver and servo functions.

Steering
AMB
BEC
Power Battery
ESC
Motor
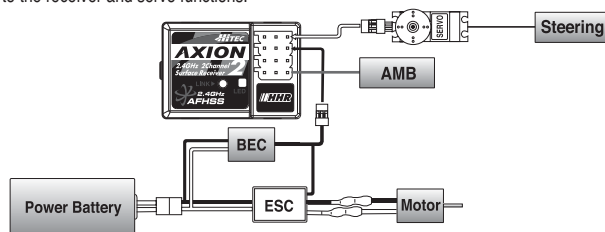
Receiver Connection Diagrams (AXION 4)
In case of glow, gas or electric powered car using a separate receiver battery supply, please follow this connection diagram when using a regulated 2cell Li-Po/Li-Fe, or 4.8~7.2V (4~6cell) NiMh/NiCd.

Steering
Engine
AUX
AUX
AMB
Receiver Battery

Receiver Connection Diagrams (PROTON 4)
In case of glow, gas or electric powered car using a separate receiver battery supply, please follow this connection diagram when using a regulated 2cell Li-Po/Li-Fe, or 4.8~7.2V (4~6cell) NiMh/NiCd.

AUX
AUX
Engine
Steering
Receiver Battery
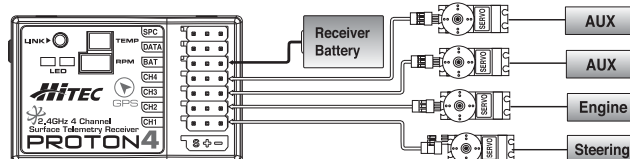
! NOTE
Please purchase ESC, servo, engine or other items separately to install with receiver.
When you use all 4 channels with mixing function, please check MIX menu in ahead.
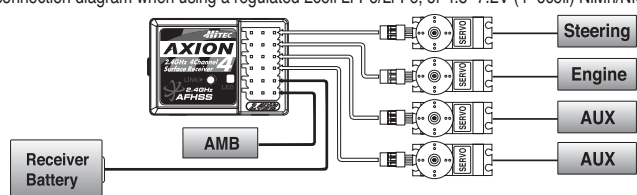
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CHARGING

Charging battery
Ni-MH 4 cell battery is included with LYNX 4S radio. In order to charge the battery, we recommend you to use Hitec overnight chargers CG-S82(220V) / CG-S85(110V), or you may use devise of your own.

! NOTE
Overnight charger, CG-S82 (220V) / CG-S85 (110V) may not be included in the package due to different regulation of each markets

! NOTE
If you do not have an overnight charger, please separate the battery from the radio and charge the TX battery with other type of charger according to your battery type (Do not use Hitec overnight chargers CG-S83/S85 on Li-PO/Li-Fe battery) .

! NOTE
When charging with a separate charger, set the charging amps up to 1A.
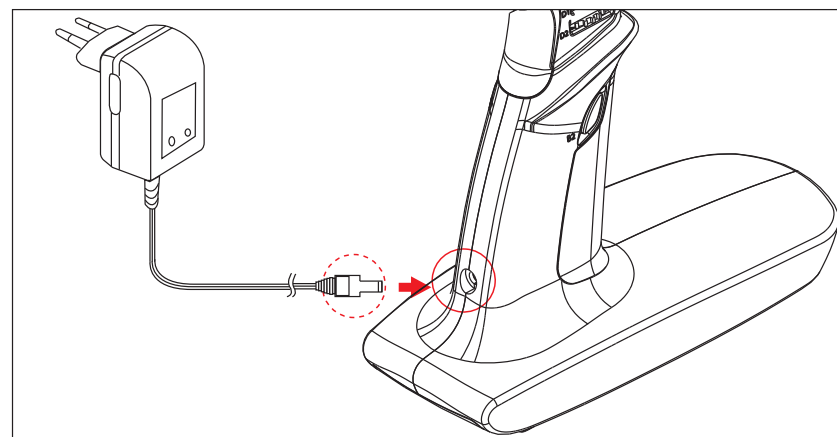
Charging with CG-S82 (220V) , CG-S85 (110V)
1. Please connect the overnight charger plug to the charging port on Lynx 4S
2. Red light appears while charging
3. Green light appears when the devise is fully charged

! NOTE
The power is automatically cut off when the overnight charge is connected to the radio while the power of the radio is on.

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INTRO SET 1 SET 2 SYSTEM MODEL SD CARD

MAIN DISPLAY

The main display shows general information for operating vehicles.
The format of display may be changed by the user.

1. Model Name　　　　　11.Signal

2. Multi Screen

3. TImer
4. Battery

10. [D1] Dual Rate Value
9. [D2]AT_Setting
8. Receiver Type
7. [T1] Steerint Trim

5. AMB Number　　　6. [T2] Throttle Trim

1. Indicates the current operating model name and number
2. May change the display to; logo, name of user, timer.. etc
3. Total duration of usage time after the power was on
4. Displays the voltage of the radio's battery
5. Shows AMB number in order to recognize current numbers among the various AMB numbers
   Can be set by MANAGEMENT menu
6. Shows the value of throttle trim. Default position is linked with T2 switch
7. Shows the value of steering trim. Default position is linked with T1 switch
8. Shows the details of receiver and also shows the status of BOOST function
9. Shows ATL settings, in which the default position is linked with D2 dial
10. Shows Dual Rate value, in which the default position is linked with D1 dial
11. Shows the status of radio that signal transit or display only

! NOTE

Information displayed on the main display may be saved in the memory by each model.

Function Menu [SET 1]

R.E.V (SERVO REVERSE)

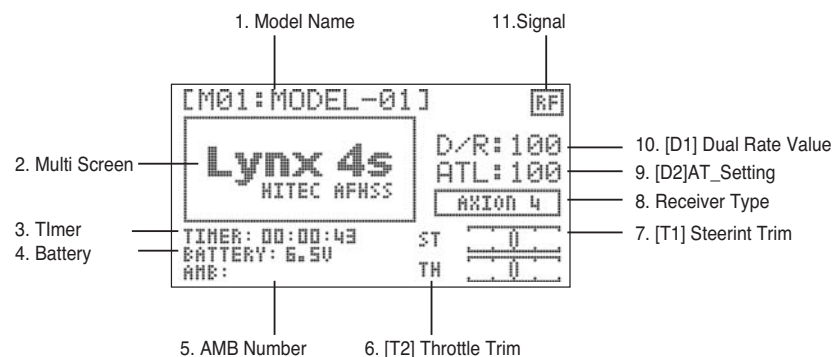R.E.V. function enables to change the working direction of servo for diverse usage of servo such as steering, throttle, and maneuvering 3CH and 4CH
(setting are either clockwise or counter clockwise)

1. Press Main Dial and enter the function menu
2. Select REV on SET 1/2 tap
3. Press the main dial to select the channel

! NOTE
If the neutral position has emerged from center due to sub-trim,
the neutral position is applied to the opposite side

E.P.A (END POINT ADJUST)

This function enables to set the maximum operating angle of the servo that is linked to the transmitter. It is handy if the turning radius of the car is different from left/right due to the condition of the vehicle (the setting varies from Min 0 ~ Max 120 for each channel.)

1. Press Main Dial and enter the function menu
2. Select REV on SET 1/2 tap
3. Press the main dial to select the channel
4. After selecting the channel item, the channel connected to steering and throttle may operate just buy
   maneuvering the trigger

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INTRO

SET 1

SET 2

SYSTEM

MODEL

SD CARD

! NOTE
EPA function is to set the maximum working angle of the servo. However, if the setting has changed it may affect the EPA settings. If you wish to set the maximum angle with EPA settings, it is recommended to set the functions below to default position.

[A T L] = 22 page : default : 100
[ST-D/R] = 26 page : default : 100
[S-TRIM] = 26 page : default position for each channel : 0

A.T.L (BRAKE RATE)

ATL (Adjustable Travel Limiter) allows the angle of strength for brake during driving.
Increase of ATL value leads to strong brake.

```
[ATL - BRAKE RATE]

BLK:100

TH      _____0_____
```
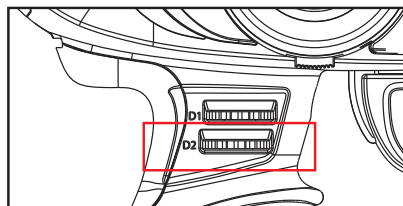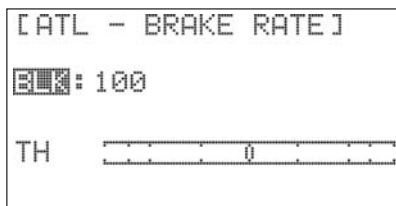
1. ATL function may be operated with D2 dial. [under MIX mode 1]
2. Press Main Dial and enter the function menu
3. Select ATL on SET 1/2 tap
4. Press the main dial to select the channel
5. You may check the status of ATL value with the graph on the display with maneuvering throttle trigger

! NOTE
ATL is an assistance function of Brake EPA settings.

A.B.S (ANTI-LOCK BRAKE)

A.B.S. enhances a more secure braking system under a slippery road condition that enables a stable cornering.

```
[A.B.S]

USE:OFF    (OFF)
ON :   30% CYL:  100ms
POW:   50% DTY:   50%
DLY:    0ms STL:OFF
         _____0_____
```
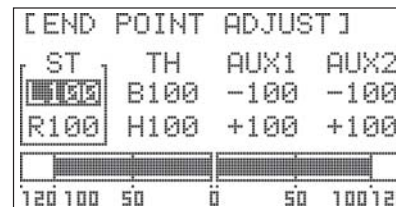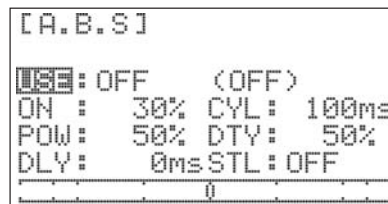
1. Press Main Dial and enter the function menu
2. Select ABS on SET 1/2 tap
3. Press the main dial to select the channel

! NOTE
Must set the CYL function low for servos with low speed.
Excessive setting of ABS may lead to damage of servos.

[Not on definition of terms for ABS setting]
USE : indicates the status(ON/OFF) of ABS [default : OFF]
ON : starting point of ABS operation when maneuvering the brake trigger. [default : 30%]
POW : angle of ABS brake power [default : 50%]
DLY : delay time of ABS operation after setting the ABS starting point. [default : 0ms]
CYL : the repeat time of ABS brake [default : 100ms]
STL : Steering mixing [default position : OFF]

You may set ON/OFF with steering while brake is activating

A.B.S. operating range when maneuvering steering after N50% setting
A.B.S. operating range when maneuvering steering after E50% setting

A.B.S Function "A.B.S"

Hitec **LYNX 4S** **Instruction Manual**

4 CHANNEL 2.4GHz SURFACE COMPUTER RADIO SYSTEM **LYNX 4S**

INTRO
SET 1
SET 2
SYSTEM
MODEL
SD CARD
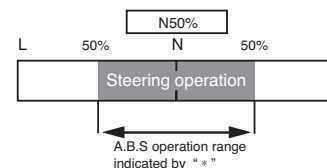
ST-EXP (STEERING EXPONENTIAL)

Enable to sets the servo operating condition for steering.
You may set the condition to a more or less sensitive steering of your vehicle.

```
[ST EXPONENTIAL]
EXP:    0
USE:OFF
              L        R
```

```
[ST EXPONENTIAL]
EXP:- 80
USE:ON
              L        R
```
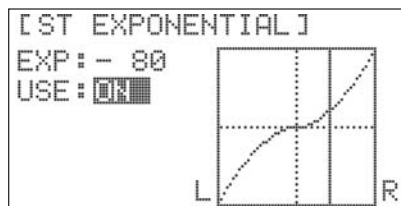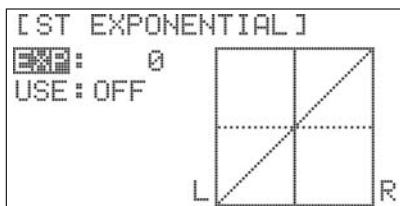
1. Press Main Dial and enter the function menu
2. Select ST-EXP on SET 1/2 tap.
3. Press the main dial to select the channel.

! NOTE
ST-EXP may change easily or may be operated with external switch. Please refer to
37 Page for details.

BK-EXP (BRAKE EXPONENTIAL)

Sets the servo operating condition for brake direction operation.
You may set the condition to a more or less sensitive braking system for your vehicle.

```
[BRAKE EXPONENTIAL]
EXP:    0
USE:OFF
              N        B
```

```
[BRAKE EXPONENTIAL]
EXP:+ 80
USE:ON
              N        B
```

1. Press Main Dial and enter the function menu
2. Select BK-EXP on SET 1/2 tap
3. Press the main dial to select the channel

! NOTE
BK-EXP may change easily or may be operated with external switch.
Please refer to 37 Page for details.

TH-EXP (THROTTLE EXPONENTIAL)

Enable to sets the servo operating condition for throttle.
You may set the condition to a more or less sensitive driving of your vehicle.

```
[TH EXPONENTIAL]
MODE:EXP
USE :ON
EXP :  75
              N        H
```
(EXP curve)

```
[TH EXPONENTIAL]
MODE:1P
USE :ON
TG.P:  60
EXP :  30
DEFAULT       N        H
```
(1P mode cure)

```
[TH EXPONENTIAL]
MODE:3P
USE :ON
  1P:  17
  2P:  34
  3P:  74
DEFAULT   N        H
```
(3P curve)
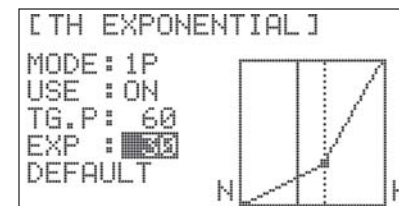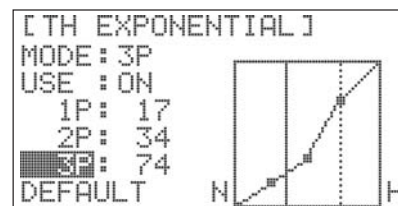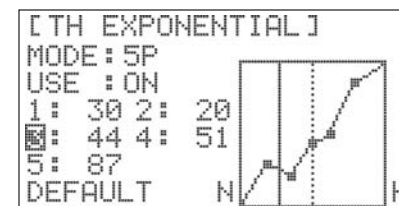
```
[TH EXPONENTIAL]
MODE:5P
USE :ON
1:  30 2:  20
3:  44 4:  51
5:  87
DEFAULT   N        H
```
(5P mode curve)

1. TH-EXP may be set under 4 modes
2. Press Main Dial and enter the function menu
3. Select TH-EXP on SET 1/2 tap
4. Press the main dial to select the channel to be changed

! NOTE
TH-EXP may change easily or may be operated with external switch.
Please refer to 37 Page for details.

ST-D/R (STEERING DUAL RATE)

You may increase or decrease the servo operation angle with dual rate adjusting dial.
[default : 100]

```
[ST DUAL RATE]

BOTH:100

ST ▭▭▭▭▭▭▭▭
```

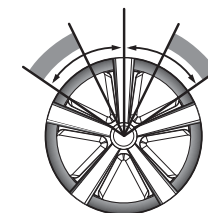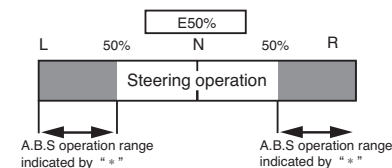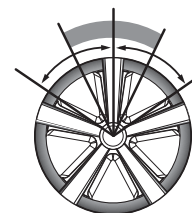1. ST-D/R function is operated with D1 dial. [under MIX mode 1]
2. Press Main Dial and enter the function menu
3. Select ST-D/R on SET 1/2 tap
4. Press the main dial to select the channel
5. You may check the status of value set, by the graph on the display with maneuvering steering

! NOTE
Dual Rate is linked to EPA function, to check the operating angle of the servo before operating your vehicle.
ST-D/R may change easily or may be operated with external switch. Please refer to 38 Page for details.

S-TRIM (SUB TRIM)

When the vehicle does not drive in a straight direction, or when the centering of the servo does
not fit the condition of the horn, please change the centering position of the servo. [default : 0]

```
[SUB TRIM]
 ST    TH   AUX1  AUX2
 0     0     0     0
 0     0     0     0
```
(MIX Mode 1)
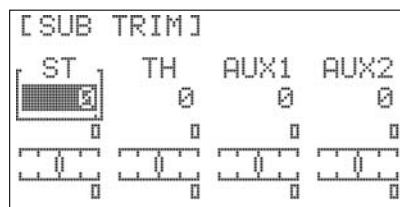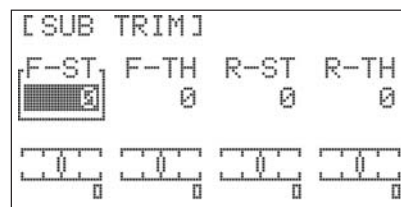
```
[SUB TRIM]
F-ST  F-TH  R-ST  R-TH
 0     0     0     0
 0     0     0     0
```
(MIX Mode 10)
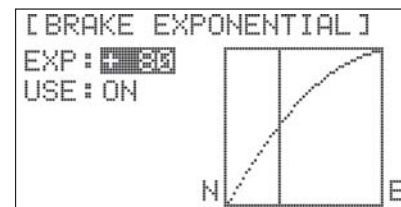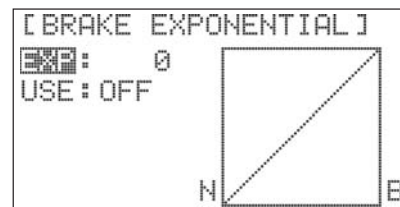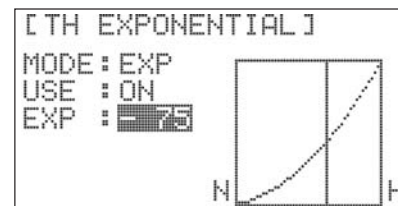
1. The name of channel may change to due MIX function settings
2. Press Main Dial and enter the function menu
3. Select S-Trim on SET 1/2 tap
4. Press the main dial to select the channel
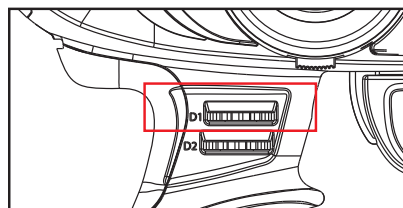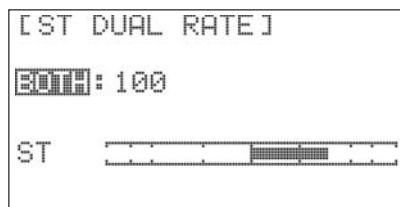5. You may check the status of value of external sub-trim by the graph on the bottom of the
   display with maneuvering steering

! NOTE
Set the S-Trim to '0' before inserting the servo into the vehicle. Please check the centering condition of
the vehicle's horn before inserting the servo. Next set the centering with using S-TRIM.
Sub-trim may be used when there is a change to centering while driving after S-TRIM has been set.

FAILSAFE (FAIL SAFE)

Fail Safe is a function that moves the servo to the position already saved, under the condition of
when the signal of receiver/transmitter has been interfered. For your safety it is recommended to
activate fail safe function at all times.
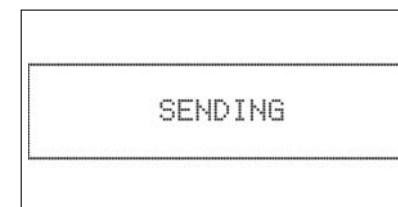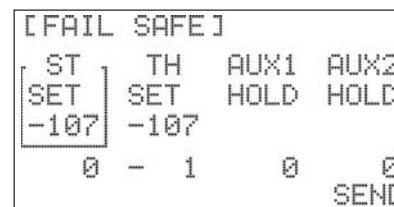
```
[FAIL SAFE]
 ST    TH   AUX1  AUX2
SET   SET   HOLD  HOLD
-107  -107

  0  -  1    0     0
                  SEND
```
(Fail Safe setting display)

```
    SENDING
```

Hold Mode(HOLD)
Servo maintains the current position when the receiver is not capable of receiving signals.

Set up Mode (SET)
Servo moves to a certain point that has been already set, when the receiver is not capable of receiving signals.

1. Press Main Dial and enter the function menu
2. Select FAILSAFE on SET 1/2 tap
3. Select HOLD or SET mode after choosing the channel to be changed
4. Adjust the location of the servo under FAILSAFE 'ON' condition, with using trigger, dial, switch
5. To save the current FAILSAFE value, press the main dial for over a second
6. After finishing the settings for each channel, press [SEND] and check the display of
   [SENDING] that confirms the settings

! NOTE
FAILSAFE function automatically returns to default position when one changes the type with
using MIX function. (please re set the FAILSAFE function). It recommended for engine vehicles to set the
brakes to stop the vehicles, and for electric vehicles to set the throttle to stop the vehicles.

Function Menu [SET 2]

BOOST (AUTO BOOST)

Quick start is not suitable when the road condition is slippery that leads to tire spin.
In such condition, BOOST function may allow quick start by setting a smooth acceleration.

```
[AUTO BOOST]

USE:ON      TG.P:  10%
MAX:5.0s  PW.P:100%

TH    ▭▭▭▬▬▬▭▭▭▭▭
```

```
[M01:MODEL-01]        RF

       Lynx 4s       D/R:100
        HITEC AFHSS   ATL:100
                      BOOST !!!

TIMER:00:17:01    ST    0
BATTERY:6.3V      TH    0
AMB:
```
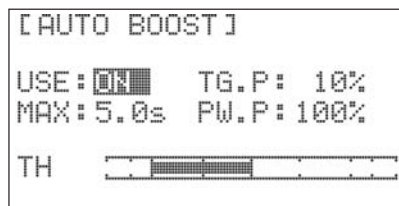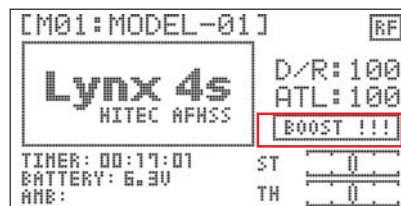
(BOOST setting display)   (BOOST function on main display)

USE : indicates ON/OFF condition of BOOST function [default : OFF]

MAX : set the time frame until that BOOST function is OFF [default position : 5.0s]
        (It is only maintained when throttle trigger is 100%)

TG.P : point when BOOST power starts [default : 10%]

PW.P : power settings while BOOST function is operating [default : 100%]

1. Press Main Dial and enter the function menu
2. Select BOOST on SET 2/2 tap
3. Press the main dial to select the channel
4. BOOST function automatically goes off after using it
5. You may check the status of value set, by the graph on the display with maneuvering throttle trigger
6. BOOST function condition is displayed on the main display

ST-SPD (STEERING SERVO SPEED)

ST-SPD sets the speed for the clockwise/ counter clockwise movement of the servo.
It enables a stable driving of the vehicle under different condition of road and vehicle.

```
[ST SERVO SPEED]

TURN  :100
RETURN:100


ST    ▭▭▭▭▭▬▬▭▭▭▭
```

```
[ST SERVO SPEED]

TURN  :100
RETURN:100

F-ST  ▭▭▭▭▭▭▭▭0▭▭
R-ST  ▭▭▭▭▭▭▭▭0▭▭
```
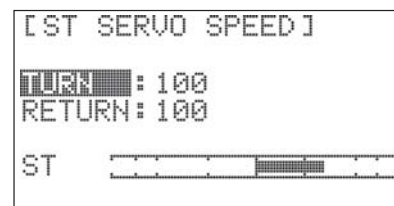
(ST-SPD setting display)   (Crawler MIX function on main display)

1. Press Main Dial and enter the function menu
2. Select SP-SPD on SET 2/2 tap
3. Press the main dial to select the channel
4. The speed is lower when the value is lower
5. It is not capable to set the movement faster than the original speed of the servo
   In addition, slower operation does not affect the speed of servo

! NOTE
ST-SPD may change easily or may be operated with external switch.
Please refer to 37 Page for details.

INTRO
SET 1
SET 2
SYSTEM
MODEL
SD CARD

TH-SPD (THROTTLE SERVO SPEED)

TH-SPD enables to set the forward speed that is connected to throttle servo or ESC.
It enables a stable driving of the vehicle under different condition of road and vehicle.

```
[TH SERVO SPEED]
MODE:OFF

Trig N[_____.____]H

Out  N[_____.____]H
```

```
[TH SERVO SPEED]
MODE:ON (1 step)
ALL :100

Trig N[_____.____]H

Out  N[_____.____]H
```

```
[TH SERVO SPEED]
MODE:ON (2 step)
LOW :100    P1: 30
HIGH:100
Trig N[_____.____]H

Out  N[___T____.____]H
```

```
[TH SERVO SPEED]
MODE:ON (3 step)
LOW :100    P1: 30
MID :100    P2: 60
HIGH:100
Out  N[__T__.__I__]H
```

1. TH-SPD may be set under 4 modes
2. Press Main Dial and enter the function menu
3. Select TH-SPD on SET 2/2 tap
4. Press the main dial to select the channel
5. The speed is lower when the value is lower
6. It is not capable to set the movement faster than the original speed of the servo. In addition,
   slower operation does not affect the speed of servo

! NOTE
TH-SPD may change easily or may be operated with external switch.
Please refer to 37 Page for details.

TH-MOD (THROTTLE MODE)

TH-MOD enables to set the rate of throttle between forward & backward(or brake).
Set up this function depending on your vehicle type.

```
[TH MODE]



MODE:50/50


```

1. Press Main Dial and enter the function menu
2. Select TH-MOD on SET 2/2 tap
3. Please select target setup using main dial

! NOTE
Please disconnect motor from ESC and make disable to run Nitro/Gas engine before set for TH MODE.

IDLE UP (IDLE UP/DOWN)

Enable to make little high status of idle of engine.
It prevent to keep idling when refueling the vehicle. It also can be assigned to brake direction.

```
[IDLE UP/DOWN]

TH  :H20%
MAX :  5s

TH    [____.__0__]
```

1. Press Main Dial and enter the function menu
2. Select IDLE UP on SET 2/2 Tap
3. Set up IDLE UP suitable for your purpose

TH : When function is ON, activate range can be set. [Range : B50 / OFF / H50]
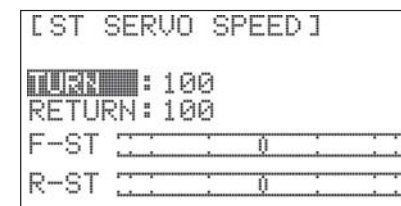**MAX :** Can be set Idle up time when function is ON [Range : OFF / 1~60sec]
When time is over, this function will be off automatically

! NOTE
When IDLE UP is ON, status LED will be blinked and will be showed on the screen

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INTRO
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TIMER (RACE TIMER)

In order to check certain time, such as total run time, refuel time, fast lap time.

UP TIMER
Same as Stop watch. Most popular type of TIMER

[TIMER]
00:00.00
MODE: UP   TR:YES
ALARM: 5m   START
PRE:OFF

[M01:MODEL-01]   RF
UP: D/R:100
00:00.00   ATL:100
                     AXION 2
TIMER: 00:02:37   ST   0
BATTERY: 6.4V
AMB: TH   0

MODE : Set the type of Timer
ALARM : Set Target Alarm Time
PRE : Set Pre-Alarm time. Ex) Set 35sec, Pre-Alarm will speak out 35sec before
TRUG : Set the timer can start by moving throttle trigger
START : Timer is ready to Start
RESET : Press " RESET" for Reset the Timer

1. Press Main Dial and enter the function menu
2. Select 'Timer' on SET 2/2 Tap
3. Set up Timer suitable for your purpose
4. Timer will be activated by when "START" or pull the throttle trigger

! NOTE
Most of switches can be assigned to TIMER START by switch section.
To start or stop the Timer can be operated by assigned switch. Please refer to 37 page for more detail

! NOTE
Timer Function can be checked by Main screen, Please refer to 52 page for more detail.

DOWN TIMER
In order to check certain time repeatedly such as check the refuel time,
DOWN TIMER is good for purpose

[TIMER] FULL:00:00.00
00:00.00
MODE: DOWN   TR:YES
ALARM: 5m   START
PRE:OFF

[M01:MODEL-01]   RF
00:00.00   D/R:100
DOWN: ATL:100
00:00.00   AXION 2
TIMER: 00:04:41   ST   0
BATTERY: 6.4V
AMB: TH   0

MODE : Set the type of Timer
ALARM : Set Target Alarm Time
PRE : Set Pre-Alarm time. Ex) Set 35sec, Pre-Alarm will speak out 35sec before
TRUG : Set the timer can start by moving throttle trigger
START : Timer is ready to Start
RESET : Press " RESET" for Reset the Timer

1. Press Main Dial and enter the function menu
2. Select 'Timer' on SET 2/2 Tap
3. Set up Timer suitable for your purpose
4. Timer will be activated by when "START" or pull the throttle trigger

! NOTE
Most of switches can be assigned to TIMER START by switch section.
To start or stop the Timer can be operated by assigned switch. Please refer to 37 page for more detail

LAP TIMER
Each Lap can be checked by this function and also can see all list on LAP LIST

[TIMER] LAP:00:00.00
00:00.00
MODE: LAP <0>   TR:YES
ALARM: 5m   START
PRE:OFF

[M01:MODEL-01]   RF
00:00.00   D/R:100
LAP: 0   ATL:100
00:00.00   AXION 2
TIMER: 00:17:08   ST   0
BATTERY: 6.3V
AMB: TH   0

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INTRO
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MODE : Set the type of Timer

ALARM : Set Target Alarm Time

PRE : Set Pre-Alarm time. Ex) Set 35sec, Pre-Alarm will speak out 35sec before

TRUG : Set the timer can start by moving throttle trigger

START : Timer is ready to Start
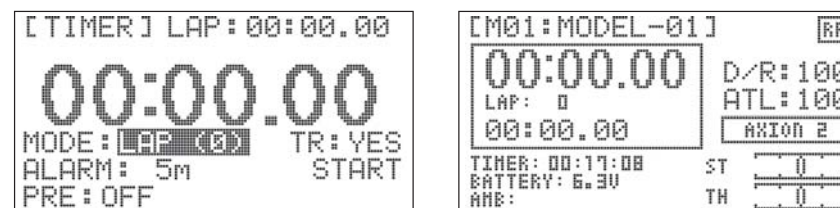
RESET : Press " RESET" for Reset the Timer

1. Press Main Dial and enter the function menu
2. Select 'Timer' on SET 2/2 Tap
3. Set up Timer suitable for your purpose
4. Timer will be activated by when "START" or pull the throttle trigger

! NOTE

Each Lap can be stored by assigned 'TIMER CAPTURE' switch .
Please see more detail on 37page.

LAP LIST

Lap list can be checked by this section. Average and individual LAP will be showed

```
[LAP LIST]
No Data
```

```
[LAP LIST]
4  : 00:09.18
5  : 00:11.17
6  : 00:10.89
7  : 00:08.97
8  : 00:12.57
```

No Data : There is no LAP data

AVG : Average LAP Time

ALL : Total Run Time

1. Press Main Dial and enter the function menu.
2. Select 'Timer' on SET 2/2 Tap
3. Check LAP LIST by Main Dial

! NOTE

When Power off & restart the LAP TIMER, data of LAP LIST will be deleted.

SWITCH

All Switches and Dials can be assigned by this menu to many type of your purpose.

```
[SWITCH]
B1: ----
B2: AUX2 /T
D3: ----
T1: T-A ST /N
T2: T-B TH /N
```

```
[SETUP B1]
FUNC:AUX1
DIR :NORMAL
```

```
[SETUP D3]
FUNC:AUX2
TYPE:PRESSED
DIR :NORMAL
```

```
[FUNCTION:B1]
     NOT LINK
(--)IDLE-UP/U
(--)ABS/U
(D3)AUX1
(B2)AUX2
```
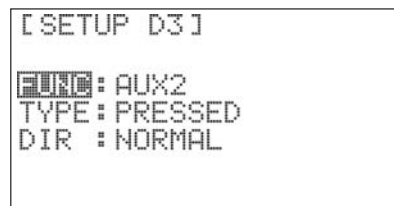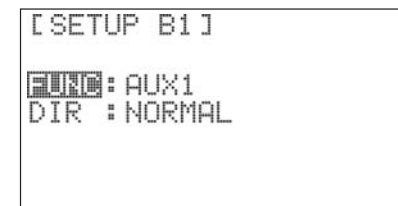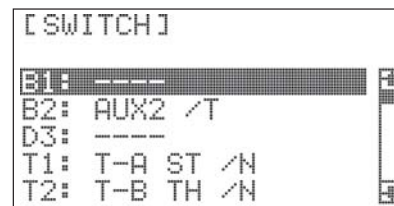
FUNC : Set the Function of switches

DIR : Set Normal/Reverse or ON,OFF of switch function

TYPE : Set Switch type (Different from switch type)

TOGGLE : 2 type of condition can be changed by select "TOGGLE"

   Ex) D3 is assigned by IDLE-UP with 'TOGGLE" type

   Press D3 button -> IDEL UP is activated

   Press D3 button one more time IDEL UP is not activated

PRESSED : Value can be changed when only switch is "Pressed" status

   Once switch is released (Un-Pressed) value will be back to normal

3SRATE : Press the switch everytime, value will be chaged by Min/neutral/Max rotationally

! NOTE

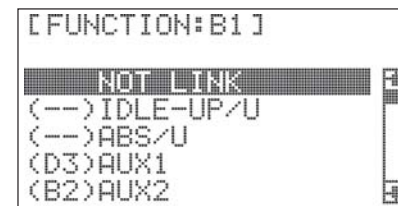Select type of switches will be diffrernt from each other since switch type is different. .

1. Press Main Dial and enter the function menu
2. Select 'SWITCH' on SET 2/2 Tap
3. Select and Set Up the switches by turn the Main Dial
4. Once Set Up is complete, please check the assigned switch once again before operation

! NOTE

Each function cannot be assigned in duplicate.

Assignable Switch list

Function	B1	B2	D3	T1	T2	T3	SW1	T1+	T2+	T3+	T1-	T2-	T3-
NOT LINK	O	O	O	O	O	O	O	O	O	O	O	O	O
4WS FS	X	X	X	X	X	X	X	O	O	O	O	O	O
4WS RS	X	X	X	X	X	X	X	O	O	O	O	O	O
4WS FR-N	X	X	X	X	X	X	X	O	O	O	O	O	O
4WS FR-S	X	X	X	X	X	X	X	O	O	O	O	O	O
4WS-S	O	O	O	O	O	O	X	X	X	X	X	X	X
4WS-3	X	O	O	O	O	O	O	X	X	X	X	X	X
TH-MIX	X	O	O	O	O	O	O	X	X	X	X	X	X
AUX1	O	O	O	O	O	O	O	X	X	X	X	X	X
AUX2	O	O	O	O	O	O	O	X	X	X	X	X	X
TELEVOICE/U	O	O	O	X	X	X	X	X	X	X	X	X	X
IDLE-UP/U	O	O	O	X	X	X	X	X	X	X	X	X	X
ABS/U	O	O	O	X	X	X	X	X	X	X	X	X	X
ST-EXP/U	O	O	O	X	X	X	X	X	X	X	X	X	X
BK-EXP/U	O	O	O	X	X	X	X	X	X	X	X	X	X
TH-EXP/U	O	O	O	X	X	X	X	X	X	X	X	X	X
TIMER START	X	O	O	X	X	X	X	X	X	X	X	X	X
TIMER CAPTURE	X	O	O	X	X	X	X	X	X	X	X	X	X
TIMER R/START	X	O	O	X	X	X	X	X	X	X	X	X	X
D/R	X	X	X	O	O	O	X	X	X	X	X	X	X
ATL	X	X	X	O	O	O	X	X	X	X	X	X	X
T-A ST	X	X	X	O	O	O	X	X	X	X	X	X	X
T-B TH	X	X	X	O	O	O	X	X	X	X	X	X	X
T-C AUX1	X	X	X	O	O	O	X	X	X	X	X	X	X
T-D AUX2	X	X	X	O	O	O	X	X	X	X	X	X	X
S-A ST	X	X	X	O	O	O	X	X	X	X	X	X	X
S-B TH	X	X	X	O	O	O	X	X	X	X	X	X	X
S-C AUX1	X	X	X	O	O	O	X	X	X	X	X	X	X
S-D AUX2	X	X	X	O	O	O	X	X	X	X	X	X	X
ST-SPD +	X	X	X	O	O	O	X	X	X	X	X	X	X
ST-SPD -	X	X	X	O	O	O	X	X	X	X	X	X	X
TH-SPD1	X	X	X	O	O	O	X	X	X	X	X	X	X
TH-SPD2	X	X	X	O	O	O	X	X	X	X	X	X	X
TH-SPD3	X	X	X	O	O	O	X	X	X	X	X	X	X
ST-EXP	X	X	X	O	O	O	X	X	X	X	X	X	X
BK-EXP	X	X	X	O	O	O	X	X	X	X	X	X	X
TH-EXP	X	X	X	O	O	O	X	X	X	X	X	X	X
T-A F-ST	X	X	X	O	O	O	X	X	X	X	X	X	X
T-B F-TH	X	X	X	O	O	O	X	X	X	X	X	X	X
T-C R-ST	X	X	X	O	O	O	X	X	X	X	X	X	X
T-D R-TH	X	X	X	O	O	O	X	X	X	X	X	X	X
S-A F-ST	X	X	X	O	O	O	X	X	X	X	X	X	X
S-B F-TH	X	X	X	O	O	O	X	X	X	X	X	X	X
S-C R-ST	X	X	X	O	O	O	X	X	X	X	X	X	X
S-D R-TH	X	X	X	O	O	O	X	X	X	X	X	X	X
T-ST	X	X	X	O	O	O	X	X	X	X	X	X	X
T-TH	X	X	X	O	O	O	X	X	X	X	X	X	X

Function of Switch

Function	Description
NOT LINK	Clear Assigned function
4WS FS	Change to Front Wheel Steer
4WS RS	Change to Rear Wheel Steer
4WS FR-N	Change to Front and Rear Steer
4WS FR-S	Change to Front and Rear Steer (Same Phase)
4WS-S	Change to Rear Steer or Back to 4WS-3 Status
4WS-3	Change Status 4WS FR-N/4WS FR-S/4WS FS
TH-MIX	Front Motor, Rear Motor can be controlled at the same time or seperately
AUX1	Control 3CH servo from the receiver
AUX2	Control 4CH servo from the receiver
TELEVOICE/U	Turn On/Off Telemetry voice
IDLE-UP/U	Turn On/Off IDLE-UP
ABS/U	Turn On/Off ABS
ST-EXP/U	Turn On/Off ST-EXP
BK-EXP/U	Turn On/Off BK-EXP
TH-EXP/U	Turn On/Off TH-EXP
TIMER START	Start/Stop Timer
TIMER CAPTURE	Record each Lap in LAP TIMER
TIMER R/START	Start/Reset Timer
D/R	Dual Rate
ATL	ATL
T-A ST	Adjust 1CH Trim
T-B TH	Adjust 2CH Trim
T-C AUX1	Adjust 3CH Trim
T-D AUX2	Adjust 4CH Trim
S-A ST	Adjust 1CH Sub-Trim
S-B TH	Adjust 2CH Sub-Trim
S-C AUX1	Adjust 3CH Sub-Trim
S-D AUX2	Adjust 4CH Sub-Trim
ST-SPD +	Change 'TURN' Servo Speed
ST-SPD -	Change 'RETURN' Servo Speed
TH-SPD1	Change 'LOW' value on 3 Step Throttle Servo Speed
TH-SPD2	Change 'MID' value on 4 Step Throttle Servo Speed
TH-SPD3	Change 'HIGH' value on 5 Step Throttle Servo Speed
ST-EXP	Change ST-EXP
BK-EXP	Change BK-EXP
TH-EXP	Change '[MODE: EXP]' Value on TH-EXP
T-A F-ST	Change Trim of Front Steering on 4WS
T-B F-TH	Change Trim of Front ESC on 4WS
T-C R-ST	Change Trim of Rear Steering on 4WS
T-D R-TH	Change Trim of Rear ESC on 4WS
S-A F-ST	Change Sub-Trim of Front Steering on 4WS
S-B F-TH	Change Sub-Trim of Front ESC on 4WS
S-C R-ST	Change Sub-Trim of Rear Steering on 4WS
S-D R-TH	Change Sub-Trim of Rear ESC on 4WS
T-ST	Change Trim of Front and Rear Steering at the same time on 4WS
T-TH	Change Trim of Front and Rear ESC at the same time on 4WS

INTRO SET 1 SET 2 SYSTEM MODEL SD CARD

DIAL (DIAL FUNCTION)

3 type of Dials can be assigned for suitable R/C purpose.

```
[DIAL]

D1: D/R /N
D2: ATL /N
D3: ----
```

```
[SETUP:D1 ]

FUNC:D/R
DIR :NOR
```

```
[FUNCTION:D1 ]

    NOT LINK
(D1 )D/R
(D2 )ATL
(D3 )AUX1
(B2 )AUX2
```

FUNC : Type of Function
DIR : Set Normal/Reverse or ON,OFF of switch function

1. Press Main Dial and enter the function menu
2. Select 'Dial' on SET 2/2 Tap
3. Select and Set Up the Dials by turn the Main Dial
4. Once Set Up is complete, please check the assigned switch once again before operation

! NOTE

Each function cannot be assigned in duplicate

Dial Function

Function	D1	D2	D3
	Switch Type		
NOT LINK	O	O	O
AUX1	O	O	O
AUX2	O	O	O
D/R	O	O	O
ATL	O	O	O
T-A ST	O	O	O
T-B TH	O	O	O
T-C AUX1	O	O	O
T-D AUX2	O	O	O
S-A ST	O	O	O
S-B TH	O	O	O
S-C AUX1	O	O	O
S-D AUX2	O	O	O
ST-SPD +	O	O	O
ST-SPD -	O	O	O
TH-SPD1	O	O	O
TH-SPD2	O	O	O
TH-SPD3	O	O	O
ST-EXP	O	O	O
BK-EXP	O	O	O
TH-EXP	O	O	O
T-A F-ST	O	O	O
T-B F-TH	O	O	O
T-C R-ST	O	O	O
T-D R-TH	O	O	O
S-A F-ST	O	O	O
S-B F-TH	O	O	O
S-C R-ST	O	O	O
S-D R-TH	O	O	O
T-ST	O	O	O
T-TH	O	O	O

! NOTE
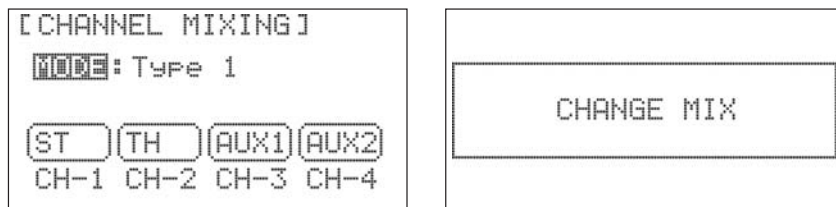According to MIX type, Dial set up will be limited.

INTRO
SET 1
SET 2
SYSTEM
MODEL
SD CARD

MIX (CHANNEL MIXING)

Lynx 4S prodvides 11type of Mixing that suitable for your R/C purpose

```
[CHANNEL MIXING]
 MODE:Type 1

(ST  )(TH  )(AUX1)(AUX2)
 CH-1 CH-2 CH-3 CH-4
```

```
CHANGE MIX
```

1. Press Main Dial and enter the function menu
2. Select 'MIX' on SET 2/2 Tap
3. Select type of Mixing by Main Dial
4. Leave MIX section, changes has been saved

! NOTE
Be careful to select MIX type. It caused damage or loss for you and your equipment.

Type of Mixing

	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	TYPE 6	TYPE 7	TYPE 8	TYPE 9	TYPE 10	TYPE 11
CH	Normal	1/5 Scale Gas Car						4WS	Crawler	Dual Throttle 4WS	Boat
CH1	Steering	Steering	Steering	Steering	Left / Steering	Left / Steering	Left / Steering	Front / Steering	Steering	Front / Steering	Left / Steering
CH2	Throttle / Brake	Throttle	Throttle / Brake	Throttle	Throttle / Brake	Throttle	Throttle / Brake	Throttle / Brake	Front / Throttle / Brake	Front / Throttle / Brake	Throttle
CH3	AUX 1	Brake	Brake	Brake 1	Right / Steering	Right / Steering	Right / Steering	Rear / Steering	Rear / Throttle / Brake	Rear / Steering	Right / Steering
CH4	AUX 2	AUX 1	AUX 1	Brake 2	AUX 1	Brake	Brake	AUX 1	AUX 1	Rear / Throttle / Brake	AUX 2

4WS (4 Wheel Steering)

Lynx 4S allows controlling Front/Rear Steering both together or independently..
You can control 4WS system using TYPE 8 or TYPE 10 along with 11 types of Mixes.
Assigned switch (4WS) can control Front/Rear steering type

4WS FS   4WS RS   4WS FR-S   4WS FR-N
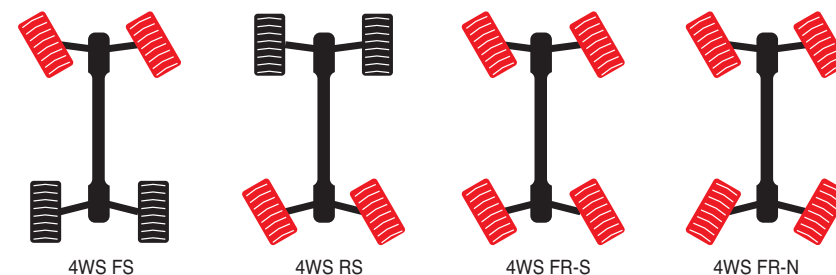
Crawler

Dual ESC can be controlled by this function.
You can control Dual ESC system using TYPE 9 or TYPE 10 along with 11 types of Mixes(
Assigned switch (TH-MIX) can control Dual ESC

F-TH   R-TH   NORMAL
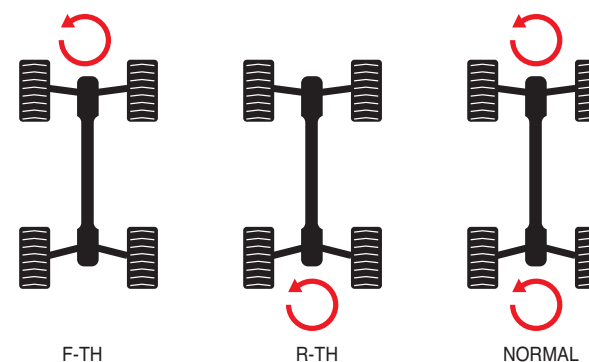
INTRO
SET 1
SET 2
SYSTEM
MODEL
SD CARD

System Menu [SYSTEM]

ST-ADJ (ADJUST STEERING)

Use this function when a mechanical steering offset has occurred for some reason.

```
[ADJUST STEERING]

CENTER:   0 OK
LEFT  :   0 --
RIGHT :   0 --
              ▓▓▓▓▓▓▓
              CANCEL
```
Before

```
[ADJUST STEERING]

CENTER:   0 OK
LEFT  : 100 OK
RIGHT : 100 OK
              OK ▓▓▓▓
              CANCEL
```
After

1. Press Main Dial and enter the function menu
2. Select 'ST-ADJ' on SYSTEM Tap
3. Turn the Steering wheel Left/Right to get '100 OK' on the screen. 0 OK is for Center
4. If you have all OK sign on the screen, press 'OK' to save

! NOTE
Once ST-ADJ is done, please check all steering related setup in order to operate correctly.

TH-ADJ (ADJUST THROTTLE)

Use this function when a mechanical throttle offset has occurred for some reason

```
[ADJUST THROTTLE]

CENTER:   0 OK
BRAKE :   0 --
ACCEL :   0 --
              ▓▓▓▓▓▓▓
              CANCEL
```
Before

```
[ADJUST THROTTLE]

CENTER:   0 OK
BRAKE : 100 OK
ACCEL : 100 OK
              OK ▓▓▓▓
              CANCEL
```
After

1. Press Main Dial and enter the function menu
2. Select 'TH-ADJ' on SYSTEM Tap
3. Turn the Throttle trigger to Forward/Brake to get '100 OK' on the screen. 0 OK is for Center
4. If you have all OK sign on the screen, press 'OK' to save
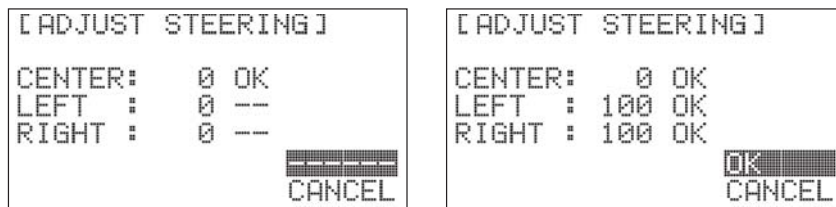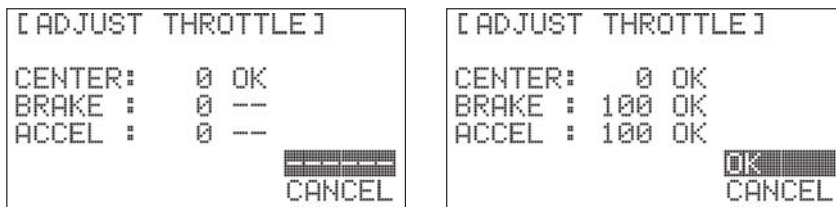
! NOTE
Once TH-ADJ is done, please check all throttle related setup in order to operate correctly

RX-BIND (RX BINDING)

Please process RX-BIND when you purchased more receivers or reset the receivers.
RX-BIND makes transmitter and receiver binding together.

LYNX 4S provides 30 models memories.
30 receivers can be bound and controlled with Lynx 4S independently.

! NOTE
Please place Lynx4S and receivers within 1meter distance when a Binding process.

```
[RX-BIND]

RX-MODEL:AXION 2
RESPONSE:HHR SYSTEM
 (ONLY DIGITAL SERVOS)

              START
```
Bind with AXION 2
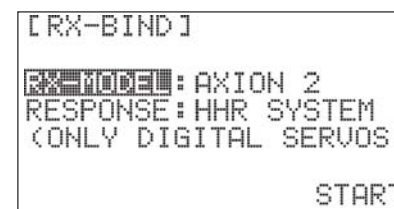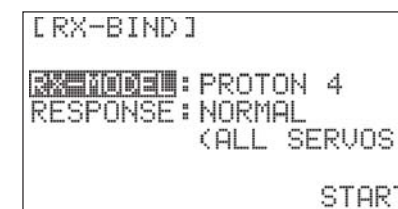
```
[RX-BIND]

RX-MODEL:PROTON 4
RESPONSE:NORMAL
         (ALL SERVOS)

              START
```
Bind with PROTON 4

LYNX 4S only can compatible with Hitec AFHSS Surface Receivers.
Please select correct receiver according to your receiver type.

AXION 2 : Will bind with AXION 2
AXION 4 : Will bind with AXION 4
PROTON 4 : Will bind with PROTON 4

NORMAL :   14ms (Digital / Analog servo compatible)
HIGH SPEED : 7ms (Only Digital servo compatible)
HHR SYSTEM : 4ms (Only Digital servo & Axion 2 compatible)

! NOTE
When you select HIGI SPEED or HHR STSTEM with analog servos on the receivers,
Analog servos will have serious damage for operation.

```
[RX-BIND]

RX-MODEL:AXION 2
RESPONSE:HHR SYSTEM
 (ONLY DIGITAL SERVOS)

                    START
```

Ex) Bind with AXION 2

```
[RX-BIND]

RX-MODEL:AXION 2
RESPONSE:HHR SYSTEM
 (ONLY DIGITAL SERVOS)

                 BINDING
```

Ex) Bind with AXION 2

LYNX 4S Bind process
1. Press Main Dial and enter the function menu
2. Select 'RX-BIND' on SYSTEM Tap
3. Select correct receiver
4. When you press 'START' bottom of screen, it will be changed by 'BINDING'
5. Status LED on TX will be blinked by 6 colors, it means that bind is ready

ON

OFF

Receivers Bind process (same as AXION series and PROTON)
1. Prepare LYNX 4S ready to bind
2. Press 'LINK' button on receiver and turn on power
3. After turn 'ON' power, release 'LINK' button
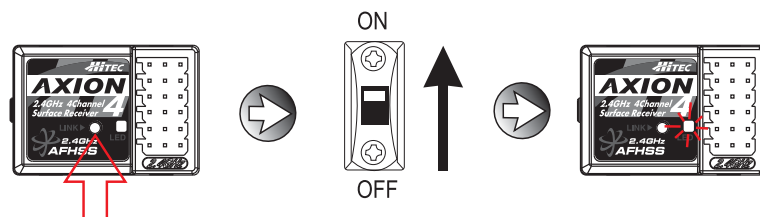4. RED & BLUE LED will be blinked rapidly
   (It means to wait for transmitter signal)
5. Once binding is complete, LED will stay on BLUE
6. Press 'ESC' button on transmitter twice to leave bind mode
7. Turin Off and On the receiver to check operation

! NOTE
Please process above Bind Process if binding is not correctly.

RF-SCAN (RF SCANNING)

This function provides better signal connection between transmitter and receiver.
When you control your car on new the place, we highly recommend do RF-SCAN before running.

! NOTE
RF-SCAN makes clear all Bind data, Once RF-SCAN is complete,
you have to bind TX & RX again.

```
[RF-SCAN]

 Are you sure to scan
   frequency table ?
YOU MUST BIND ALL RX!
    NO         YES
```

```
[RF-SCAN]

 Scanning clear freq.

    Please wait ...
                SCANNING
```

```
[RF-SCAN]

 Scanning Completed.

YOU MUST BIND ALL RX!
              RX-BIND
```

```
[RX-BIND]

RX-MODEL:AXION 2
RESPONSE:HHR SYSTEM
 (ONLY DIGITAL SERVOS)

                    START
```

1. Press Main Dial and enter the function menu
2. Select 'RF-SCAN' on SYSTEM Tap
3. Press 'YES' to process
4. Once scanning is complete, please bind again for all receivers
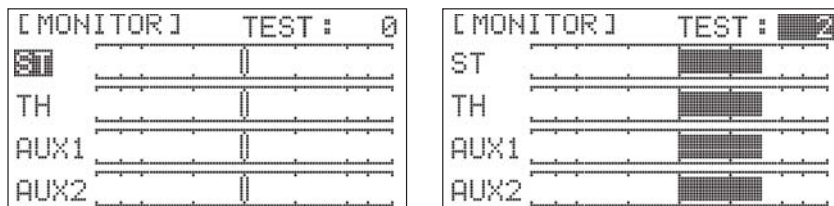
INTRO
SET 1
SET 2
SYSTEM
MODEL
SD CARD

SERVO (SERVO MONITOR)

All servo operations can be checked by graph on the screen.
With 'TEST' function, servo can be moved continuously.
Number of TEST is selecting test speed.

```
[MONITOR]    TEST:    0
ST
TH
AUX1
AUX2
```

```
[MONITOR]    TEST:    2
ST
TH
AUX1
AUX2
```

1. Press Main Dial and enter the function menu
2. Select 'SERVO' on SYSTEM Tap
3. Move all servos which are connected with receiver and check each condition
4. You can select 'TEST' speed by changing numbers next to 'TEST'
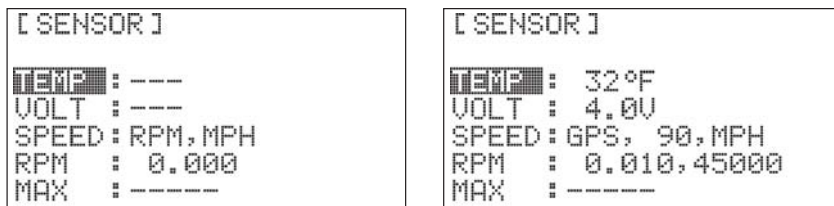
! NOTE
Please DO NOT operates 'TEST' function when servo is assembled on the car.
It may cause serious damage and failure for servo and car. .

SENSOR (TELEMETRY SENSOR)

Hitec AFHSS (Advanced Frequency Hopping Spread Spectrum) has supporting bi-direction
communication which is called 'Telemetry'. With this function, Data of Telemetry sensors
can be checked by Lynx4S screen and warnings also speak out via speaker and ear phone.

! NOTE
Telemetry function is only compatible with PROTON 4 receiver.

```
[SENSOR]

TEMP :---
VOLT :---
SPEED:RPM,MPH
RPM  : 0.000
MAX  :------
```

```
[SENSOR]

TEMP : 32°F
VOLT : 4.0V
SPEED:GPS, 90,MPH
RPM  : 0.010,45000
MAX  :------
```

Set up for warning sounds/voice & function On/Off of each sensor is available in each section of
sensors menu.

TEMP (Temperature Sensor)
Data from Temperature sensor will be shown on Lynx4S screen.
Warning level and Voice out also can set by this section

```
[M01:MODEL-01]        RF
         ___RPM    TMP:   0°F
            MPH    RX : 0.0V
  MAX:   0         AXION 4
    BATTERY:6.5V
    RPM:        0
```

```
[TEMP]

SPEAK   :NO
USE     :NO
WARNING: 32
UNIT    :°F
```
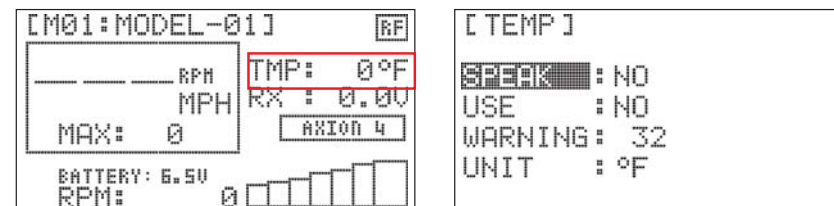
TMP : Temperature via TEMP sensor
SPEAK : Warning sound will speak out via speaker or not
USE : Warning message will use or not
WARNING : Set warning level
UNIT : Set Temperature Unit ('F or 'C)

1. Press Main Dial and enter the function menu
2. Select 'SERVO' on SYSTEM Tap
3. Select 'TEMP' on the menu and make your own set up according to your purpose

! NOTE
This function ONLY will be activated when Temperature sensor is connected to Proton 4 receiver

! NOTE
To use 'SPEAK' function, Micro SD memory card is required.
Please save warning files into the Micro SD memory card which is provided by Hitec website.
Please refer to 60 page for more detail.

! NOTE
Since Voice speaking makes time difference between receiving data,
Voice of sensor data will not be matched with actually sensing data on the screen

INTRO
SET 1
SET 2
SYSTEM
MODEL
SD CARD

VOLT (Voltage Sensor)

Data from a Voltage sensor will be shown on Lynx4S screen.
Warning level and Voice out also can be set by this section

```
[M01:MODEL-01]        [RF]        [VOLTAGE]
_____RPM  TMP:    0°F
            MPH  RX :  0.0V        SPEAK   :NO
 MAX:    0        [AXION 4]        USE     :NO
   BATTERY:6.5V                    WARNING:  0.0V
   RPM:      0
```

SPEAK : Warning sound will speak out via speaker Yes or No
USE : Warning message will use Yes or No
WARNING : Set warning voltage level

1. Press Main Dial and enter the function menu
2. Select 'SERVO' on SYSTEM Tap
3. Select 'VOLT' on the menu and make your own set up according to your purpose

In order to check the voltage of more than 8.4V battery,
the battery needs to be connected to the SPC port of the PROTON 4 receiver.
The battery below 8.4V can be checked automatically if it is connected to the receiver or ESC.

! NOTE
This function ONLY will be activated when the Proton 4 receiver is used.

! NOTE
To use 'SPEAK' function, Micro SD memory card is required. Please save warning files into
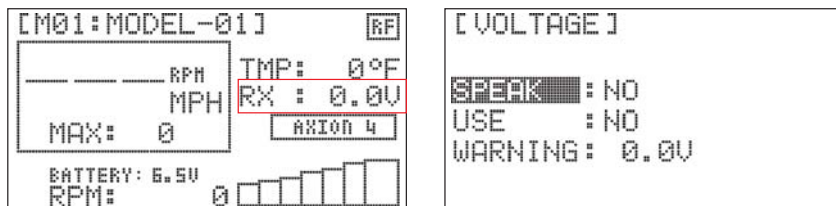the Micro SD memory card which is provided by Hitec website.

! NOTE
Since Voice speaking makes time difference between receiving data,
Voice of sensor data will not be matched with actually sensing data on the screen

SPEED (GPS or RPM Sensor)

Data from a GPS or RPM sensor will be shown on Lynx4S screen.
Warning level and Voice out also can be set by this section

```
[M01:MODEL-01]        [RF]        [SPEED]
_____RPM  TMP:    0°F           SPEAK   :NO
            MPH  RX :  0.0V        SOURCE  :RPM
 MAX:    0        [AXION 4]        UNIT    :MPH
   BATTERY:6.5V                    USE     :NO
   RPM:      0                     WARNING:   0
```

SPEAK : Warning sound will speak out via speaker or not
SOURCE : You can choose between two things, GPS or RPM.
UNIT : Set Speed Unit (MPH or KPH)
USE : Warning message will be used or not
WARNING : Set warning level

1. Press Main Dial and enter the function menu
2. Select 'SERVO' on SYSTEM Tap
3. Select 'SPEED' on the menu and make your own set up according to your purpose

! NOTE
This function ONLY will be activated when the Proton 4 receiver is used,
or the RPM sensor needs to be connected to the Proton 4 receiver.

! NOTE
GPS sensor does not work at places indoor place, and there can be difference between
GPS speed and actual speed depending on the mileage(Km/h).

! NOTE
To use 'SPEAK' function, Micro SD memory card is required. Please save warning files into
the Micro SD memory card which is provided by Hitec website.

! NOTE
Since Voice speaking makes time difference between receiving data,
Voice of sensor data will not be matched with actually sensing data on the screen

INTRO
SET 1
SET 2
SYSTEM
MODEL
SD CARD

RPM (Magnetic RPM Sensor)

Data from a RPM sensor will be shown on Lynx4S screen.

Warning level and Voice out also can be set by this section

```
[M01:MODEL-01]        RF
_____ ___RPM   TMP:   0°F
          MPH   RX : 0.0V
 MAX:    0         AXION 4
   BATTERY: 6.5V
   RPM:        0
```

```
[RPM]

SPEAK  :NO
SPEED x:  0.000
USE    :NO
WARNING:     0
```

SPEAK : Warning sound will speak out via speaker Yes or No

SPEED : Set gear ratios so that the data from RPM sensor can be converted to the speed. (Km/h)

USE : Warning message will be used Yes or No

WARNING : Set warning voltage level

1. Press Main Dial and enter the function menu
2. Select 'SERVO' on SYSTEM Tap
3. Select 'RPM' on the menu and make your own set up according to your purpose

! NOTE

This function ONLY will be activated when the RPM sensor is connected to the Proton
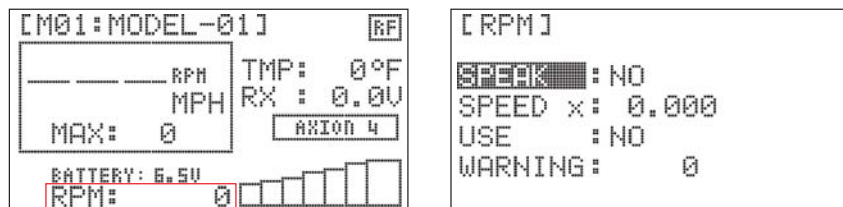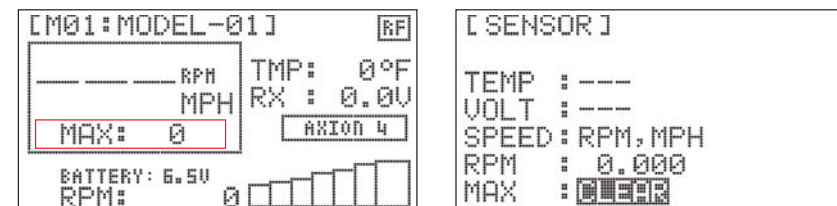
! NOTE

To use 'SPEAK' function, Micro SD memory card is required. Please save warning files into the Micro SD memory card which is provided by Hitec website.

! NOTE

Since Voice speaking makes time difference between receiving data, Voice of sensor data will not be matched with actually sensing data on the screen

MAX (Maximum Speed Reset)

Maximum speed on the main screen can be initialized.

```
[M01:MODEL-01]        RF
_____ ___RPM   TMP:   0°F
          MPH   RX : 0.0V
 MAX:    0         AXION 4
   BATTERY: 6.5V
   RPM:        0
```

```
[SENSOR]

TEMP :---
VOLT :---
SPEED:RPM,MPH
RPM  : 0.000
MAX  :CLEAR
```

1. Press Main Dial and enter the function menu
2. Select 'SERVO' on SYSTEM Tap
3. Select 'MAX' on the menu and initialize the maximum speed
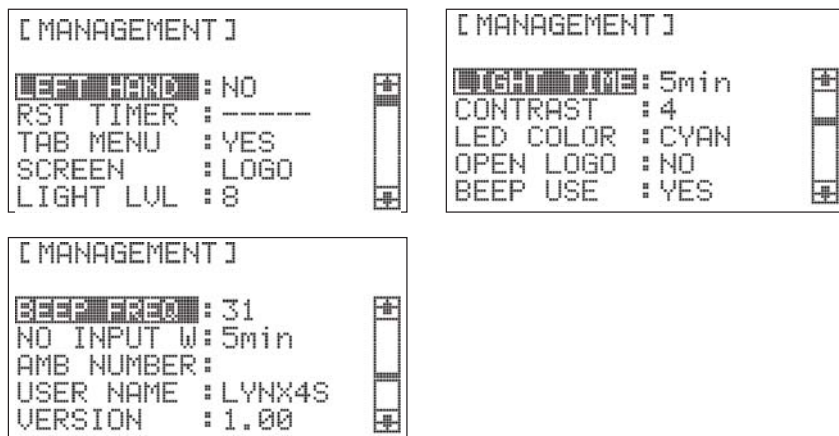
INTRO
SET 1
SET 2
SYSTEM
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SD CARD

MANAGEMENT (MANAGEMENT)

Lynx 4S transmitter provides several convenient functions for its users so that it can be used in various applications.

```
[ MANAGEMENT ]

LEFT HAND :NO
RST TIMER  :------
TAB MENU   :YES
SCREEN     :LOGO
LIGHT LVL  :8
```

```
[ MANAGEMENT ]

LIGHT TIME:5min
CONTRAST  :4
LED COLOR :CYAN
OPEN LOGO :NO
BEEP USE  :YES
```

```
[ MANAGEMENT ]

BEEP FREQ :31
NO INPUT W:5min
AMB NUMBER:
USER NAME :LYNX4S
VERSION   :1.00
```

LEFT HAND : The main screen turns 180 degree for left hand users.

RST TIMER : Initialize the use time of the transmitter on the main screen.

TAB MENU : The way of the display movement can be changed on the function menu.
It divides into two ways, one for choosing the top folder and one for not choosing it.

SCREEN : Set the information on the secondary screen.
(You can choose one of the followings / LOGO, USERNAME, TIMER or OUTPUT)

LIGHT LVL : Set the brightness of the backlight. (Level 1 to 10)

LIGHT TIME : The brightness of the backlight can be off after predetermined time.

CONTRAST : Set the contrast of the LCD. (Level 1 to 8)

LED COLOR : Set the color of the LCD (6 colors)

OPEN LOGO : Hitec logo can be shown or not when turning on the power.

BEEP USE : Beep can be on or off.

BEEP FREQ : Adjust the volume of the beep sound.

NO INPUT W : In order to protect the overdischarge of the battery,
there is a warning when the transmitter is not used for a predetermined time period.

AMB NUMBER : Save the AMB numbers for each model.

USER NAME : Set the user name.

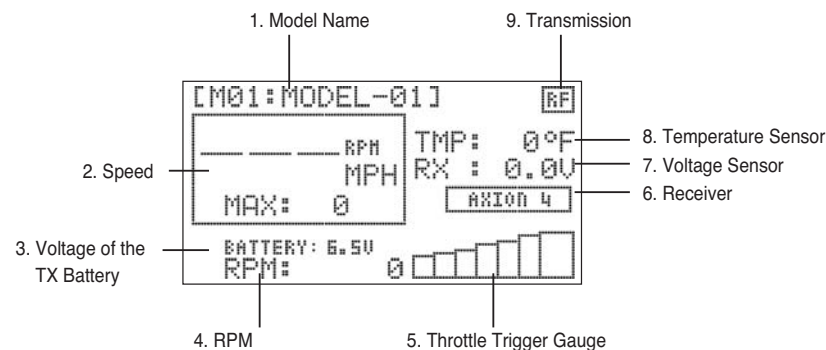**VERSION :** It shows the current version of the firmware.

TELEMETRY (TELEMETRY DISPLAY)

The main screen always shows the necessary information when driving a car.
The information on the screen changes according to the data from each sensor, and it can be easily found on the screen.
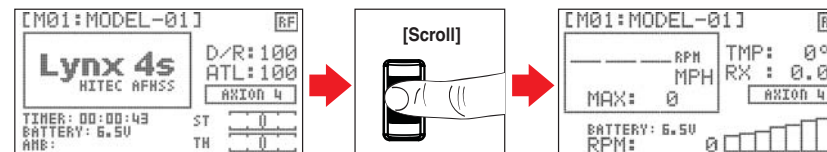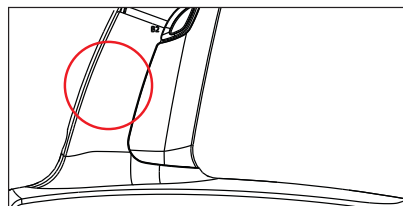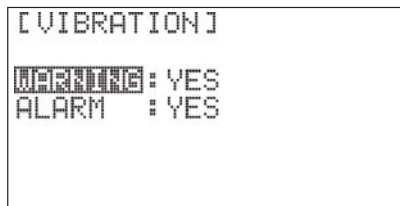
! NOTE
The Telemetry Display appears when turning up or down the dial on the main screen.

1. Model Name
9. Transmission
2. Speed
8. Temperature Sensor
7. Voltage Sensor
6. Receiver
3. Voltage of the TX Battery
4. RPM
5. Throttle Trigger Gauge

1. **Model name :** Shows the current model name and number
2. **Speed :** Shows the speed value measured from the GPS or RPM sensor
3. **Voltage of the TX battery :** Shows the voltage of the transmitter battery
4. **RPM :** Shows the RPM value measured from the RPM sensor
5. **Throttle trigger gauge :** Shows the control value of the trigger
6. **Receiver :** Shows a type of receivers and also shows operate or non-operate of the boost function
7. **Voltage sensor :** Shows the voltage value measured from the voltage sensor
8. **Temperature sensor :** Shows temperature value measured from the temperature sensor
9. **Transmission :** Shows the transmitter's status for the transmission

Hi TEC **LYNX 4S** **Instruction Manual**

4 CHANNEL 2.4GHz SURFACE COMPUTER RADIO SYSTEM **LYNX 4S**

INTRO

SET 1

SET 2

SYSTEM

MODEL

SD CARD

VIBRATION (VIBRATION)

Lynx 4S has a built-in vibration motor, so users can receive a warning message when they're driving or there are a lot of noise.

```
[VIBRATION]

WARNING:YES
ALARM   :YES
```
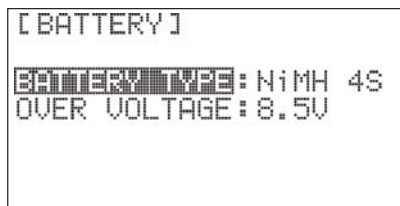
1. Press the main dial and enter the function menu
2. Select 'VIBRATION' on SYSTEM Tap
3. Choose the desired item and change setting by the main dial

! NOTE
When the vibration function is on, the sound function is automatically off in order to prevent losing the sound quality of the speaker.

BATTERY (BATTERY FUNCTION)

Lynx 4S includes the NI-MH battery, and it can be used with the NI-CD,
LI-PO and LI-FE battery. When the battery type is changed,
it automatically manages the voltage system as shown the below picture.

```
[BATTERY]

BATTERY TYPE:NiMH 4S
OVER VOLTAGE:8.5V
```

1. Press the main dial and enter the function menu
2. Select 'BATTERY' on SYSTEM Tap
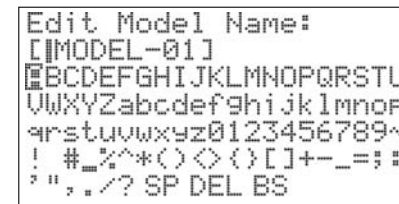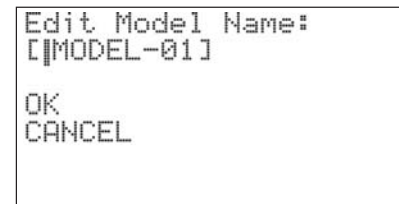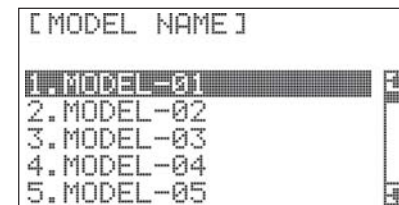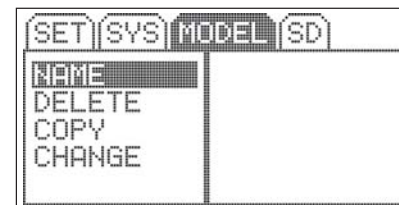3. Choose the desired item and change setting by the main dial

! NOTE
The correct battery type should be set. If the wrong battery type is set,
it can cause a fatal damage for the battery due to the overdischarge.

Model Menu [MODEL]

NAME (MODEL NAME)

Each model name can be set, and users can make 12 model names.
The names are shown on the main screen.

```
SET SYS MODEL SD

NAME
DELETE
COPY
CHANGE
```

```
[MODEL NAME]

1.MODEL-01
2.MODEL-02
3.MODEL-03
4.MODEL-04
5.MODEL-05
```

```
Edit Model Name:
[MODEL-01]

OK
CANCEL
```

```
Edit Model Name:
[MODEL-01]
ABCDEFGHIJKLMNOPQRSTU
VWXYZabcdefghijklmnop
qrstuvwxyz0123456789~
! #_%^*()<>(){}[]+-_=;:
'",./? SP DEL BS
```
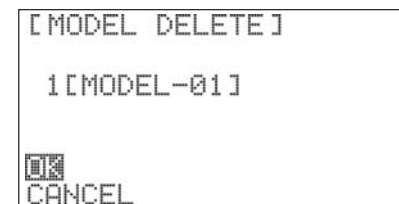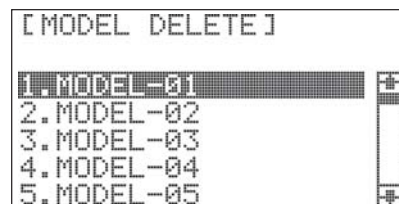
1. Press the main dial and enter the function menu
2. Select 'NAME' on MODEL Tap
3. Change the setting by using a keyboard on the screen

! NOTE
A model name can be saved by each model.

DELETE (MODEL DELETE)

The model name and its setting value can be deleted.

```
[MODEL DELETE]

1.MODEL-01
2.MODEL-02
3.MODEL-03
4.MODEL-04
5.MODEL-05
```

```
[MODEL DELETE]

 1[MODEL-01]

OK
CANCEL
```
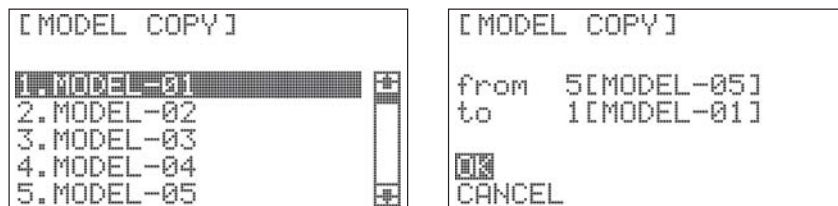
1. Press the main dial and enter the function menu
2. Select 'DELETE' on MODEL Tap
3. Choose the model you want to delete

! NOTE
Active model can not be deleted. Please change the model first and delete.

COPY (MODEL COPY)

The model name and its setting value can be saved as a different model.

```
[MODEL COPY]


1.MODEL-01
2.MODEL-02
3.MODEL-03
4.MODEL-04
5.MODEL-05
```

```
[MODEL COPY]


from   5[MODEL-05]
to     1[MODEL-01]

OK
CANCEL
```
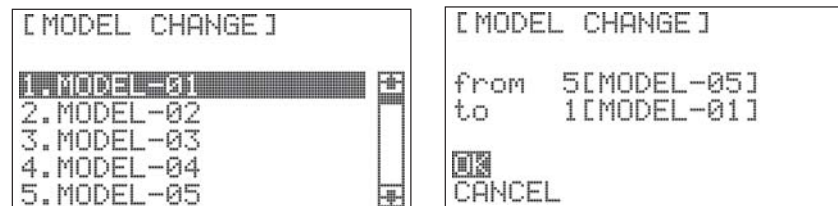
1. Press the main dial and enter the function menu
2. Select 'COPY" on MODEL Tap
3. Choose the model that you want to copy

! NOTE
All the previous setting value of the copied model will be deleted.

CHANGE (MODEL CHANGE)

A model can be changed except the model currently in use.

```
[MODEL CHANGE]


1.MODEL-01
2.MODEL-02
3.MODEL-03
4.MODEL-04
5.MODEL-05
```

```
[MODEL CHANGE]


from   5[MODEL-05]
to     1[MODEL-01]

OK
CANCEL
```

1. Press the main dial and enter the function menu
2. Select 'CHANGE' on MODEL Tap
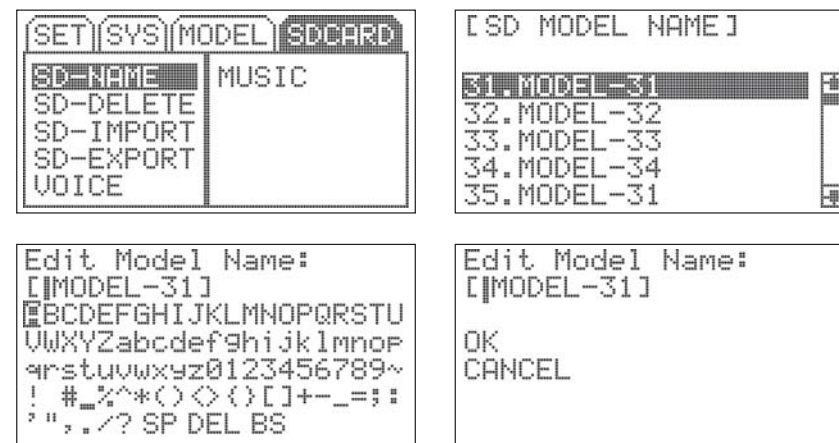3. Choose the model you want to change

SD Card Menu [SD CARD]

SD-NAME (SDCARD MODEL NAME)

Additional 30 model names can be set if SD card is used.

! NOTE
This function can be used when a micro SD card is inserted into a transmitter.

```
[SET][SYS][MODEL][SDCARD]

SD-NAME    MUSIC
SD-DELETE
SD-IMPORT
SD-EXPORT
VOICE
```

```
[SD MODEL NAME]


31.MODEL-31
32.MODEL-32
33.MODEL-33
34.MODEL-34
35.MODEL-31
```

```
Edit Model Name:
[|MODEL-31]
ABCDEFGHIJKLMNOPQRSTU
VWXYZabcdefghijklmnop
qrstuvwxyz0123456789~
! #_%^*()<>(){}[]+-_=;:
'",./? SP DEL BS
```

```
Edit Model Name:
[|MODEL-31]


OK
CANCEL
```

1. Press the main dial and enter the function menu
2. Select 'SD-NAME' on MODEL Tap(SD-MODEL)
3. Change the setting by using the keyboard on the screen

! NOTE
Please do not separate the SD card when using this function or changing its data.
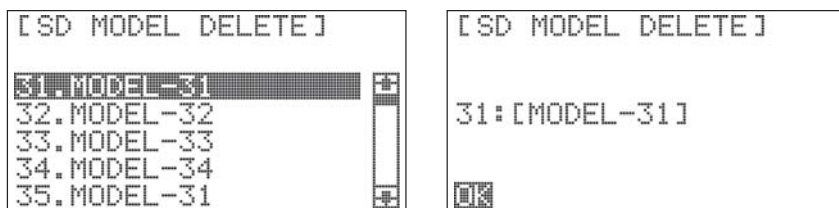An error can be occurred or the data can be deleted.

INTRO
SET 1
SET 2
SYSTEM
MODEL
SD CARD

SD-DELETE (SDCARD MODEL DELETE)

The setting value and model names of the additional 30 models with the SD card can be also deleted.

```
[SD MODEL DELETE]

31.MODEL-31
32.MODEL-32
33.MODEL-33
34.MODEL-34
35.MODEL-31
```

```
[SD MODEL DELETE]


31:[MODEL-31]


OK
```

1. Press the main dial and enter the function menu
2. Select 'SD-DELETE' on MODEL Tap(SD-MODEL)
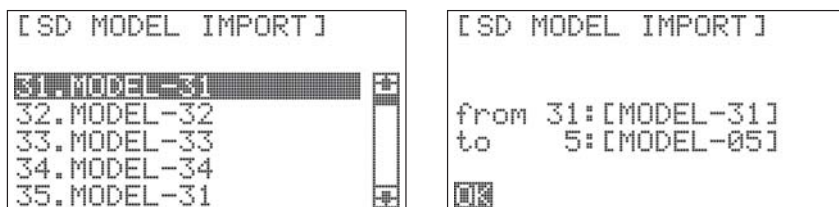3. Choose the model that you want to delete

! NOTE
Please do not separate the SD card when using this function or changing its data.
An error can be occurred or the data can be deleted.

! NOTE
Active model can not be deleted. Please change the model first and delete.

SD-IMPORT (SD CARD MODEL IMPORT)

Model data stored in the SD card can be imported to a transmitter.

```
[SD MODEL IMPORT]

31.MODEL-31
32.MODEL-32
33.MODEL-33
34.MODEL-34
35.MODEL-31
```

```
[SD MODEL IMPORT]


from 31:[MODEL-31]
to    5:[MODEL-05]

OK
```

1. Press the main dial and enter the function menu
2. Select 'SD-IMPORT' on MODEL Tap(SD-MODEL)
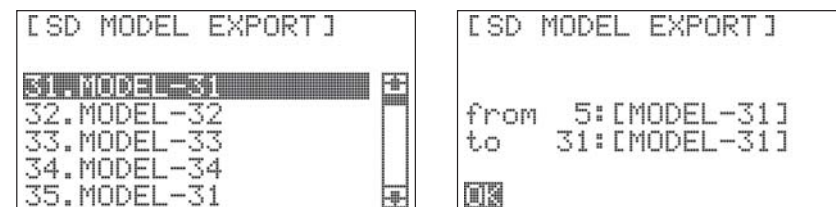3. Choose the model that you want to import from the SD card

! NOTE
The chosen model data in the transmitter will be deleted.

! NOTE
Please do not separate the SD card when using this function or changing its data.
An error can be occurred or the data can be deleted.

SD-EXPORT (SD CARD MODEL EXPORT)

Model data stored in the transmitter can be exported to the SD card.

```
[SD MODEL EXPORT]

31.MODEL-31
32.MODEL-32
33.MODEL-33
34.MODEL-34
35.MODEL-31
```

```
[SD MODEL EXPORT]


from  5:[MODEL-31]
to   31:[MODEL-31]

OK
```

1. Press the main dial and enter the function menu
2. Select 'SD-EXPORT' on MODEL Tap(SD-MODEL)
3. Choose the model that you want to export to the SD card

! NOTE
Please do not separate the SD card when using this function or changing its data.
An error can be occurred or the data can be deleted.

! NOTE
The chosen model data in the SD card will be deleted.

INTRO
SET 1
SET 2
SYSTEM
MODEL
SD CARD

VOICE (VOICE FUNCTION)

LYNX 4S can output voice for value of bidirectional sensors,
and it can also assign desired sound for a warning message by using a wave(.wav) file.

! NOTE
This function can be used with a micro SD card, bidirectional audio output file that Hitec offers,
wave conversion program or wave(.wav) file. For more information, please visit our website,
www.hitecrcd.com

```
[SETUP TO VOICE]

VOLUME    :MAX
TELEMETRY :YES
BAT OVER  :NO
BAT LOW   :NO
NO INPUT W:NO
```

```
[SETUP TO VOICE]

TELEMETRY :YES
BAT OVER  :NO
BAT LOW   :NO
NO INPUT W:NO
POWER ON  :YES
```

VOLUME : It adjusts the sound coming from the speaker
TELEMETRY : It turns on or off the voice output for the bidirectional telemetry sensors
BAT OVER : It turns on or off the output of wave file for the overvoltage of the transmitter battery
BAT LOW : It turns on or off the output of wave file for the low voltage of the transmitter battery
NO INPUT W : In order to protect the over discharge of the transmitter battery,
a warning message can be turned on or off when the transmitter is not used for the
predetermined time
POWER ON : The wave file can be turned on or off when the power is on

! NOTE
When the vibration function is on, there is no sound from the speaker. If there is no sound,
please check your setting of the vibration function.

MUSIC (MUSIC PLAY)

Music can be played with the LYNX 4S by using the wave(.wav) file,
and users can also enjoy the music during driving with earphones.

! NOTE
This function can be used with a micro SD card and the wave(.wav) conversion program that
Hitec offers or music file. For more information, please visit our website, www.hitecrcd.com.

```
[MUSIC]

1:S 1
2:S 2
3:S 3
```

```
[PLAY 1/3]

*S 1*

STOP
VOLUME:MAX
REPEAT:OFF
```

VOLUME : It adjusts the music sound coming from the speaker.
REPEAT : It changes the type of music play. (Repeat of one song, Whole repeat, Play one song)

! NOTE
The setting value of a car can be changed when playing music, but it may consume the battery faster.

INTRO SET1 SET 2 SYSTEM MODEL SD CARD

Warning Error Message

LYNX 4S has various warning or error messages so that it can be used more safely.

NO INPUT

This is a message when the transmitter is not used for a predetermined time.
This prevents the over discharge.

CHECK SDCARD

This is a message to check if the SD card is inserted or not.

BATTERY LOW

This is a message when the transmitter battery is low. If you see this message, please charge the battery.

BATTERY OVER

This is a message when the voltage of the transmitter battery is higher than its standard. Please check if the specification of the voltage is correct.

4 CHANNEL 2.4GHz SURFACE COMPUTER RADIO SYSTEM

LYNX 4S