

SGK-3

GFSK 2.4GHz SYSTEM INSTRUCTION MANUAL

G82176 / G82177 / G82178



*Fail-Safe
*6 Model
Memories



H14103007 20110301

Skyion

Safety Precautions



- YOUR MODEL CAN CAUSE SERIOUS DAMAGE OR INJURY SO PLEASE USE CAUTION AND COURTESY ALL THE TIME
- DO NOT EXPOSE THE RADIO SYSTEM TO WATER OR EXCESSIVE MOISTURE
- PLEASE WATER PROOF THE RECEIVER AND SERVOS BY PLACING THEM IN A WATER TIGHT RADIO BOX WHEN OPERATING R/C MODELS.
- IF YOU HAVE LITTLE OR NO EXPERIENCE OPERATING R/C MODELS, WE STRONGLY RECOMMEND YOU TO SEEK THE ASSISTANCE OF EXPERIENCED MODELERS OR YOUR LOCAL HOBBY SHOP FOR GUIDANCE

Tx Specifications

Receiver:

Frequency: 2.4GHz
Power supply: DC 4.8~6.0V
Weight: 6 grams
Dimensions: 1.35"(L) x 0.72"(W) x 0.53"(H)

Transmitter

Power supply: 6AA alkaline dry cells DC 9V
or 6 cell Ni-MH pack
Weight: 375 gm
Frequencies: 2.4GHz

Features

- 6 model memory
- Dual Rate Steering (D/R Steering)
Steering angle can be changed using digital trim.
- Digital Trim
Steering Trim, Throttle Trim, Adjustable D/R steering can all be adjusted using digital trim switches.
- Switch function reassignment
Allows for assignment of a function to any digital trim switches (digital trim switches).
All switches are digital so there is no need to readjust trim position for different models after initial setup.

Memory Function

Model Memory:

**(The following refers to the 2.4GHz SGK-3 radio system without digital display only)

Automatic 6 Model Memory:

This radio system can be bound to 6 various receivers at one time. The SGK-3 radio system automatically stores the data information (All EPA, ST/TH TRIM, and failsafe settings) from each receiver allowing up to 6 vehicles or boats to be used with one radio, however not at the same time.

BEFORE OPERATING

Binding the Transmitter and the Receiver

Binding the Transmitter and the Receiver

- Each transmitter is assigned with a random unique ID number. In order to begin using the transmitter system you will have to bind the receiver to the transmitter. Follow the instructions below.
- One transmitter can be paired up to 6 receivers.

Binding Instructions:

1. Bring the transmitter close to the receiver.
2. Press and hold the "binding button" on the receiver and while turning on the power to the receiver. The LED of the receiver will blink indicating that it is searching for a transmitter to bind with.
3. Push the REV button of the transmitter and turn on the power SW. The transmitter will auto-search and bind to the receiver. This may take up to 10 seconds.
4. Once the transmitter and the receiver are bound together, the receiver's LED will turn solid red; otherwise, repeat step 1 to 4.

Skyion 2.4GHz (GFSK) Fail-safe adjustment

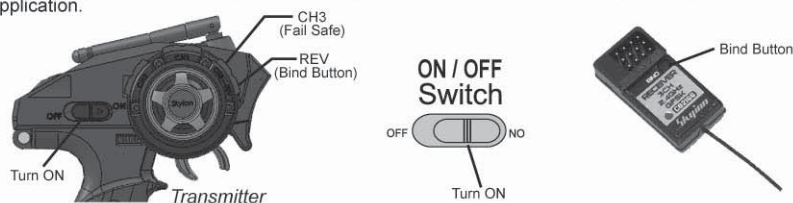
Failsafe Setting

- The failsafe function is to drive the servos (or ESC) to a pre-programmed position once the receiver cannot receive the signals from the transmitter. This can be due to low voltage from the battery or radio interference.

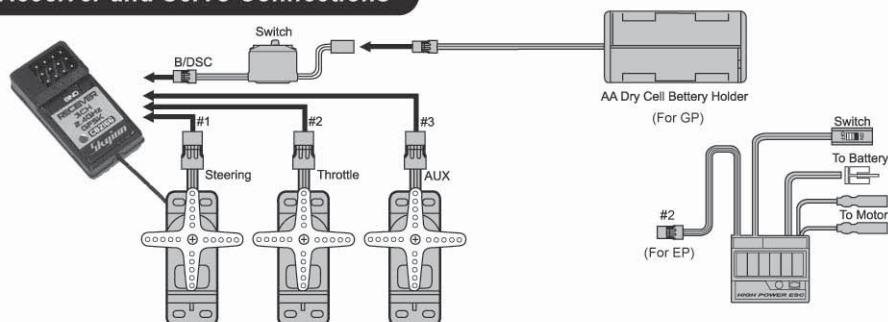
Testing the Fail-Safe Settings:

1. Push the "FailSafe(3CH)" button for 5 seconds to enter the failsafe programming mode.
2. Adjust the throttle trigger and steering wheel to adjust the positions and press the "FailSafe" button to program. Once the positions are programmed, the Status LED will blink.
3. You can turn-off the power of the transmitter to check if the servo will turn to the programmed positions.

Very Important, Please note: If you are utilizing a nitro vehicle, make sure that your engine is not running during this application.

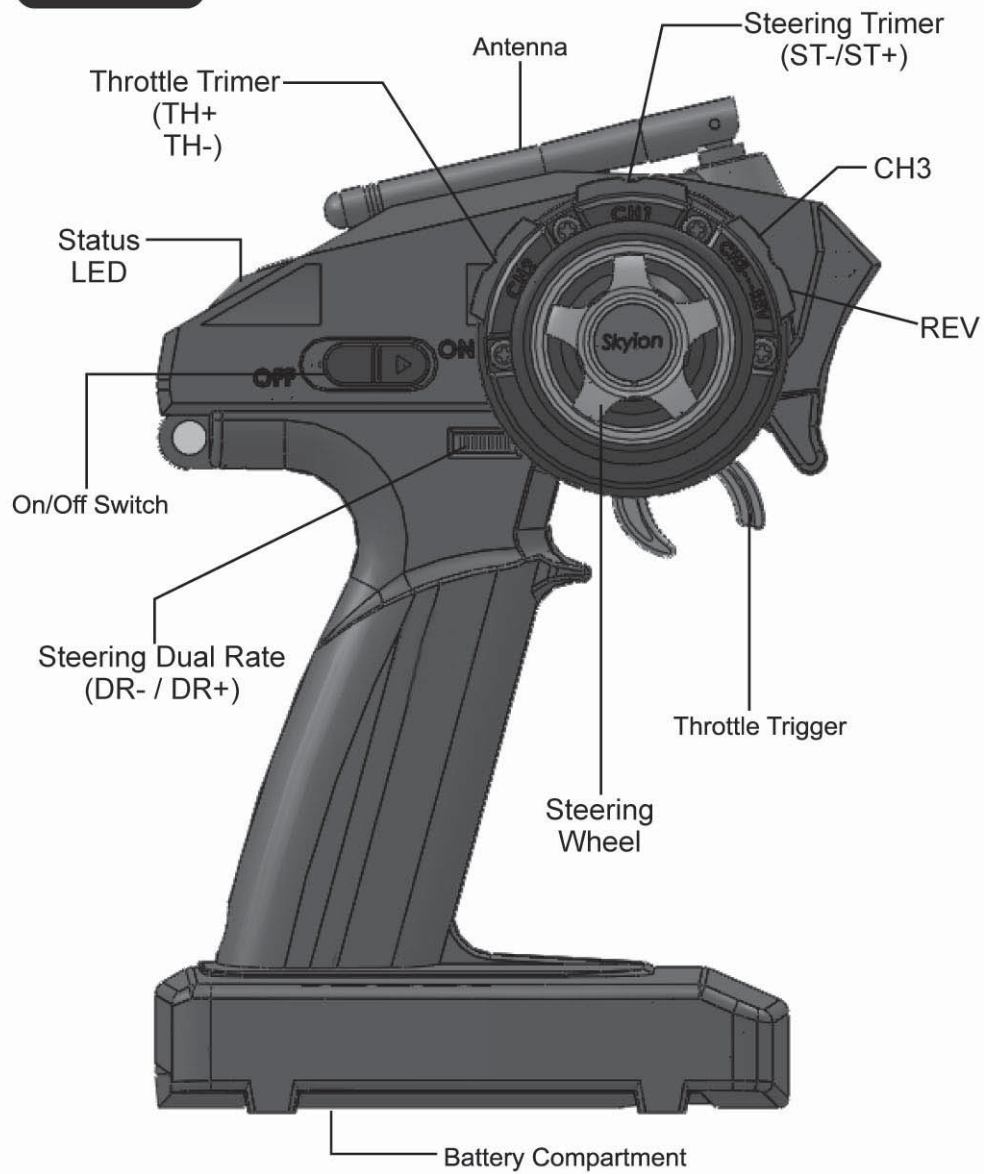


Receiver and Servo Connections



BEFORE OPERATING

Transmitter



BEFORE OPERATING

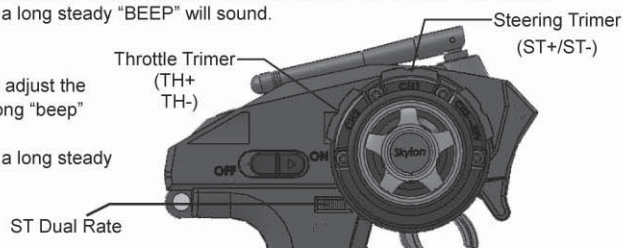
Digital Trimming

• **Steering Trimming:**

- * Press the "ST+" or "ST-" button to adjust the neutral position of the steering. A long "beep" will sound.
- * Once the value reaches the limit, a long steady "BEEP" will sound.

• **Throttle Trimming:**

- * Press the "TH+" or "TH-" button to adjust the neutral position of the throttle. A long "beep" will sound.
- * Once the value reaches the limit, a long steady "BEEP" will sound.



Battery Replacement

For dry cell battery system

Load the six batteries in accordance with the polarity marking on the battery holder. (6AA Size Batteries)

Battery Replacement

1. Remove the battery cover from the transmitter.
2. Remove the old batteries.
3. Insert the six new AA batteries according to the polarity markings.
4. Replace the battery cover.
5. Slide the power switch to the ON position. If voltage is low (the low battery alarm will sound), check that the batteries are properly inserted and are making sufficient contact.

- ! Always check the voltage of the transmitter before use.



Caution

- ! Always be sure to insert the batteries correctly according to the marking, or the transmitter may be damaged.
- ! When the transmitter will not be used for a long time, remove the batteries to prevent leaks and corrosion. If a contacts thoroughly, making sure all contacts are corrosion free.

Low Battery Alarm:

An alarm will sound if the transmitter voltage drops below 6.7V. This alarm is meant as a safety feature only. The transmitter should not be operated below 6.7V. If the low battery alarm sounds, replace batteries immediately with fresh AA batteries to prevent loss of control.

Data Backup

The data for every function of the transmitter is stored in a memory chip that does not require battery backup.

The transmitter can be used without worrying about backup battery life.

BEFORE OPERATING

Servo Reverse

Servo Reverse (REV)

- This function reverses the direction of the operation of the servos related to transmitter steering and throttle.
- Caution: For your safety, before you adjust the throttle reverse, have a friend hold the model, or clamp it down or place it where the wheels cannot come in contact with the ground or any object.
- Steering reverse
 - * Turn the steering wheel fully to the left (or right) and press the "REV" buttons for at least 2 seconds to reverse the ST channel.
 - * The transmitter will beep once for confirmation.
- Throttle reverse
 - * Pull the throttle trigger fully to the high-side and press the "REV" buttons together for at least 2 seconds to reverse the TH channel.
 - * The transmitter will beep once for confirmation.

Steering Dual-Rate (ST D/R)

- Steering dual-rate allows on-the-fly travel adjustment to both sides (left and right) of the steering servo.
- The default value is 100% of the maximum travel. The dual-rate can be set from 20% to 100%.
- To increase the dual-rate, Press the "DR+" button and to decrease the dual-rate, Press the "DR-" button.

End Point Adjustment

Steering EPA (End Point Adjustment)

- Use this when performing left and right steering angle adjustment.
 - Caution: Be careful to not over extend the steering throw as it can cause your servo to over-work and over heat.
- ST –Left-side adjustment:
 - turn the steering wheel fully to the left and use the (ST+) or (ST-) buttons to adjust the steering angle to the desired angle.
- ST –Right-side adjustment:
 - turn the steering wheel fully to the right and use the (ST+) or (ST-) buttons to adjust the steering angle.
 - Be careful to not over extend the steering throw as it can cause your servo to over-work and over heat.

Throttle and Brake EPA (End Point Adjustment)

- Use this when performing throttle throw and brake throw. (The amount your servo will turn for throttle and /or brake)
 - Caution: Be sure that your engine is not running during throttle EPA adjustments
- Throttle Open Adjustment:
 - * Pull the throttle trigger fully to the high-side and use the "TH+" or "TH-" buttons to adjust the throttle to the desired throw. It is recommended to remove the air filter of your nitro engine and view how much your carburetor opens while pulling the trigger and adjust accordingly.
- Throttle brake adjustment:
 - * Push the throttle trigger fully to the brake-side and use the "TH+" or "TH-" buttons to adjust the brakes accordingly.

Power Alarm

Idle and Low-Battery Alarm

No Activity Alarm

- When the steering wheel (ST), throttle trigger (TH) or any button is not operated for 10 minutes, a slow beeping alarm will sound to indicate that there has been no action and the power should be turned off.

Low Battery Voltage Alarm

- If the transmitter battery voltage drops to 6.7V or less, a slow beeping alarm sounds and the power LED light will blink.

BEFORE OPERATING

FCC Statement

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Česky [Czech]	SKYION tímto prohlašuje, že tento SGK-3 je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk [Danish]	Undertegnede SKYION erklærer herved, at følgende udstyr SGK-3 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch [German]	Hiermit erklärt SKYION, dass sich das Gerät SGK-3 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Eesti [Estonian]	Käesolevaga kinnitab SKYION seadme SGK-3 vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, SKYION, declares that this SGK-3 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]	Por medio de la presente SKYION declara que el SGK-3 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ SKYION ΔΗΛΩΝΕΙ ΟΤΙ SGK-3 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Français [French]	Par la présente SKYION déclare que l'appareil SGK-3 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Italiano [Italian]	Con la presente SKYION dichiara che questo SGK-3 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo SKYION deklarē, ka SGK-3 atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo SKYION deklaruoja, kad šis SGK-3 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands [Dutch]	Hierbij verklaart SKYION dat het toestel SGK-3 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, SKYION, jiddikjara li dan SGK-3 jikkonforma mal-ftigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Direttiva 1999/5/EC.
Magyar [Hungarian]	Alulírott, SKYION nyilatkozom, hogy a SGK-3 megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym SKYION oświadcza, że SGK-3 jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
Português [Portuguese]	SKYION declara que este SGK-3 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovensko [Slovenian]	SKYION izjavlja, da je ta SGK-3 v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	SKYION týmto vyhlasuje, že SGK-3 spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Suomi [Finnish]	SKYION vakuuttaa täten että SGK-3 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar SKYION att denna SGK-3 står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.