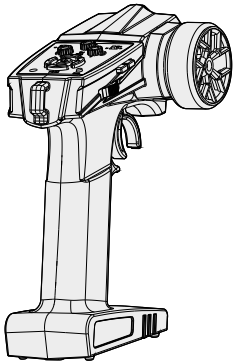
MTX-400 2.4GHZ 4CH DIGITAL SYSTEM

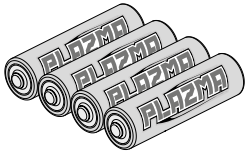
Instruction Manual

Components

MTX-400 Transmitter

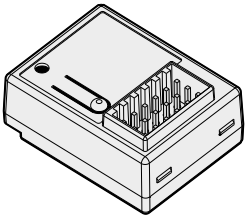


Equipment Needed



101939
PLAZMA 1.5V Alkaline AA Battery

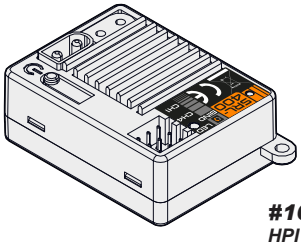
RF-51/N Receiver



#160555
HPI RF-51 Receiver
for electric vehicles

#160556
HPI RF-51N Receiver
for nitro vehicles

SRL-400 3-in1 ESC/RX/LED Controller



#161330
HPI SRL-400 3-in1
ESC/RX/LED Controller

Important Information

Thank you for selecting this HPI RACING product!

Be sure to thoroughly read and understand these instructions before using this product. Pay particular attention to the items labeled Caution and Attention. Failure to follow these instructions may result in damage to your RC car and injury to yourself and other people.



Caution

If you make changes or adjustments not shown in the instruction manual, your vehicle may be damaged.

Safety Guidelines about Products

- **Switch on the transmitter first then the receiver. Switch off the receiver first then the transmitter.**
- **Before running you must check the radio function.**
- **After running, the motor, ESC and wires may be hot. Do not touch as they can cause burns.**
- **This radio is made of precision electronics, do not expose to extreme heat, vibration, shock or water.**
- **Do not cut antenna wire.**
- **2.4GHz radio frequency only functions by line of sight, if you drive behind a solid object or around a corner and lose sight of the vehicle you may lose control of the RC car.**
- **Be careful to not short circuit any of the wires as this will cause damage to the unit.**
- **Do not disassemble and make any modifications to the transmitter and receiver/ESC.**



Caution

Failure to follow these instructions can damage your kit and cause serious bodily injury or death.



Attention

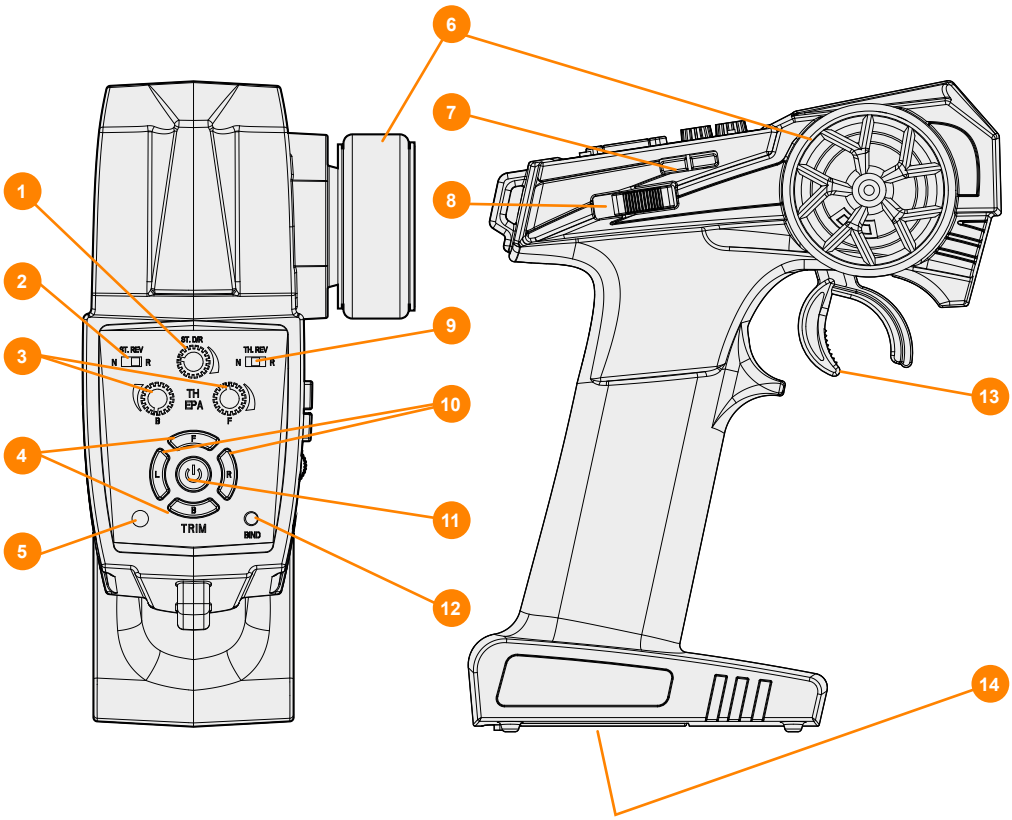
Failure to follow these instructions may result in injury to yourself or others, as well as damage to your vehicle or other property.

En: More Information
De: Weitere Informationen
Fr: Plus d'informations
Es: Más información
Fl: Lisätietoja
No: Mer informasjon
Da: Mere information
Sv: Mer information
Pt: Mais informações
It: Ulteriori informazioni
Tr: Daha fazla bilgi
Ro: Mai multe informații
Pl: Więcej informacji
Cs: Více informací
Zh: 更多信息
Ja: 詳細情報



1 Overview

1-1 *Transmitter Controls*



1. Steering Dual Rate (D/R) Adjustment
2. Steering Reverse Switch
3. Throttle End Point Dial (low/high points)
4. Throttle Trim
5. Power Indicator
6. Steering Control
7. Channel 4 Control
8. Channel 3/LED Control
9. Throttle Reverse Switch
10. Steering Trim
11. Power Switch
12. Bind Button
13. Throttle Trigger
14. Battery Compartment

1-2 Transmitter Operation

This transmitter is for use with the SRL-400 or RF-51/N receiver.

These functions only work as described when used with those products.

1-2-1 Steering Dual Rate (D/R) Adjustment

Used to adjust the steering servo travel.

1-2-2 Reverse Switches

2-4-1
2-5-1

These switches reverse the direction of the steering channel (CH1) and throttle channel (CH2), respectively.

1-2-3 End Point / EPA

3-3

End Point Adjustments (EPA) allow you to set the throttle travel limits.

1-2-4 Throttle Trim

2-5-2

Used to center the throttle.

1-2-5 Power Indicator

A solid light indicates sufficient battery power. A flashing light indicates low batteries.

1-2-6 Steering Trim

2-4-3

Used to center the steering.

1-2-7 Power Switch

Press and hold to switch on the transmitter.

1-2-8 Bind Button

3-1

Used to bind the transmitter to the vehicle receiver.

1-2-9 Channel 3 Control

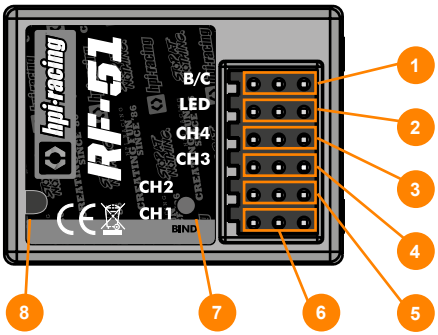
3-position switch used for optional accessories. When using the HPI LED adapter, the CH3 switch controls the LED ON/OFF functions.

1-2-10 Channel 4 Control

100-position range used for optional accessories. Press once to change the position by 1. Press and hold to change the position by 10. The center position is indicated by a double beep.

1-3 Receiver Functions/Connections

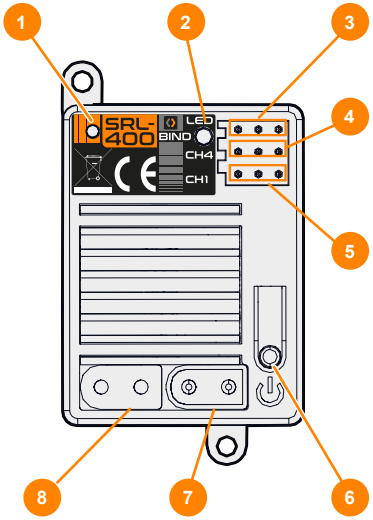
1-3-1 RF-51/N Receiver



1. Receiver Battery connection
2. For use with HPI LED Adapter*
3. CH4: For transponder or other accessories
4. CH3: For transponder or other accessories
5. CH2: Throttle Servo
6. CH1: Steering Servo
7. Bind Button
8. Antenna

* If using HPI LED adapter, CH3 switch is used for the LED ON-OFF Functions.

1-3-2 SRL-400 3-in1 ESC/RX/LED Controller



1. Antenna
2. Bind Button
3. For use with HPI LED Adapter*
4. CH4: For transponder or other accessories
5. CH1: Steering Servo
6. Power Switch
7. Battery Connection
8. Motor Connection

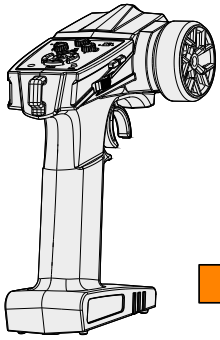
* If using HPI LED adapter, CH3 switch is used for the LED ON-OFF Functions.

Attention Do not make sharp bends in or cut the antenna.

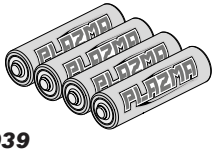
2 Getting Started

2-1 Transmitter Battery Installation

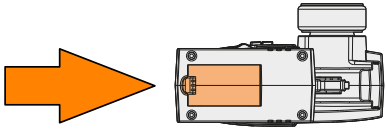
1 *Open the battery cover at the bottom of the transmitter. Install four 1.5 V AA batteries, observing the polarity markings.*

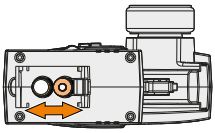


! Do not mix batteries of different ages or types.



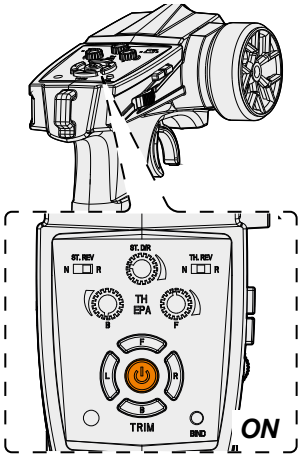
101939
PLAZMA 1.5V Alkaline AA Battery
(Not Included)



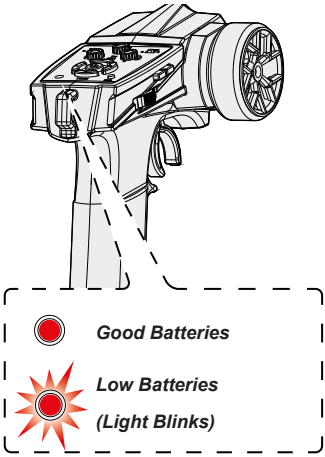


2-2 Switching On

1 *Switch on Transmitter*



2 *Check Batteries*



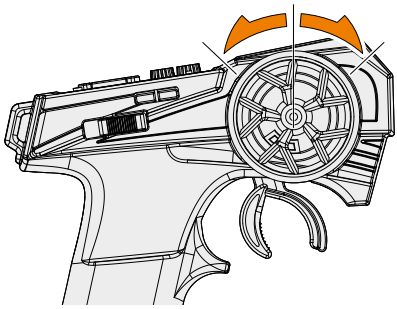
3

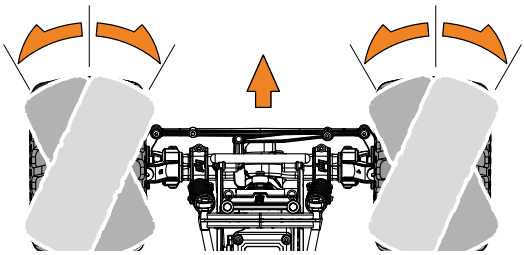
Place the car on a stand, connect the battery, and switch on the receiver.

2-3 Basic Operation

2-3-1 Steering

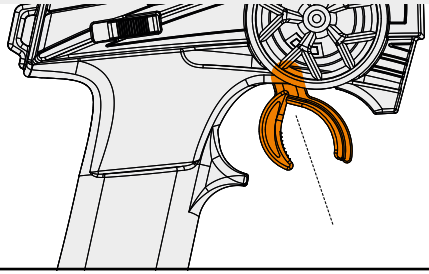
1 *Steering is normally back = left, forward = right. To reverse the steering direction, see Section 2-4-1.*



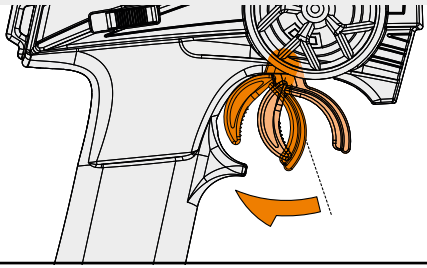


2-3-2 Acceleration

1 *Throttle Trigger - neutral position*



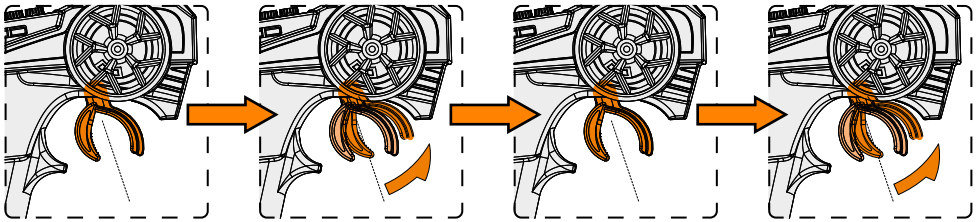
2 *Throttle Trigger - acceleration/forward*



2-3-3 Reverse/Braking

1 *Throttle Trigger - Reverse/braking*

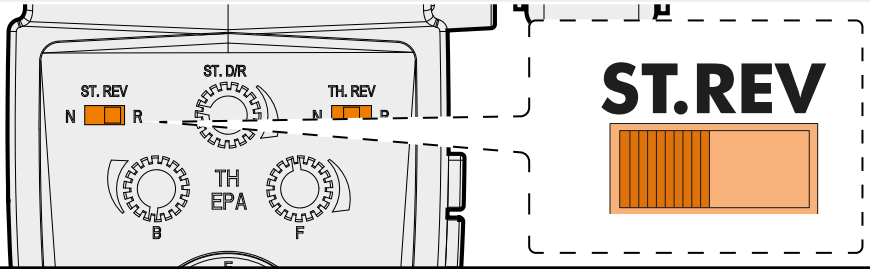
Braking		Reverse	
1. Stop (Neutral)	2. Brake	3. Stop (Neutral)	4. Reverse



2-4 Steering Adjustments

2-4-1 Steering Reverse

1 *To change direction of steering - e.g. for left-handed use.*

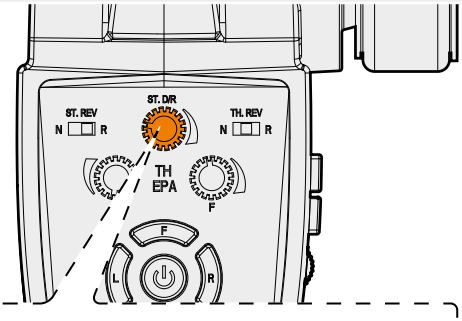


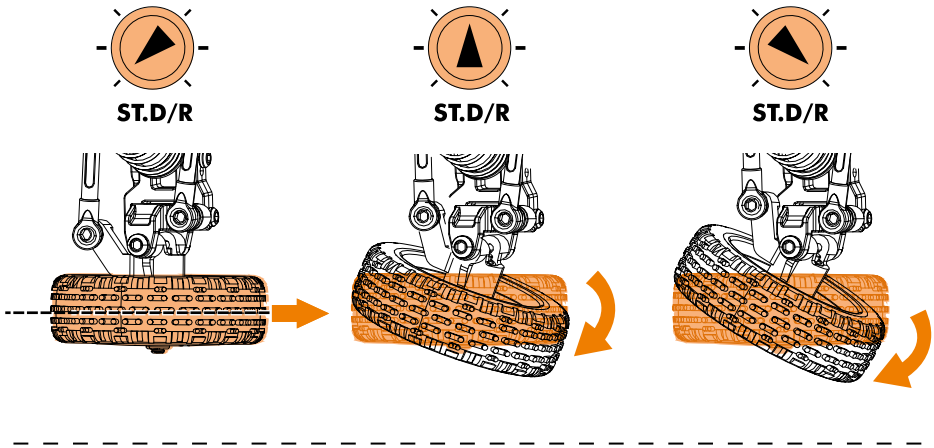
2-4-2 Steering Dual Rate

1 *To be used to adjust steering servo throw.*

Turn the knob counterclockwise to reduce steering travel.

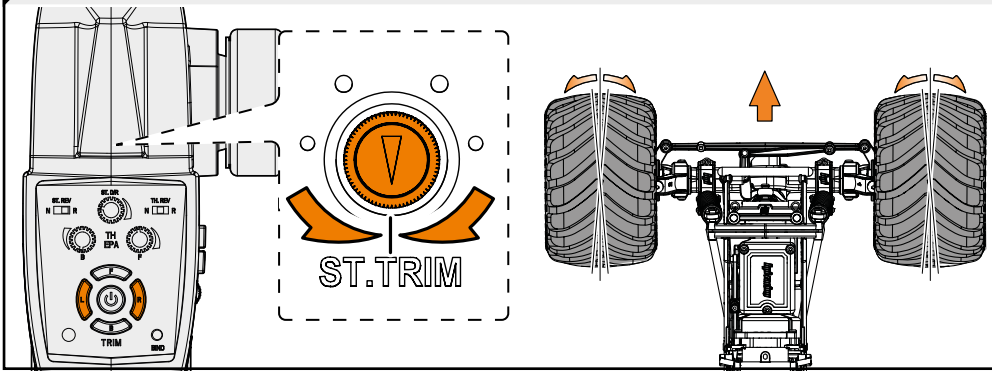
A setting of 75% or less is recommended to prevent the front tires from rubbing against the body. After adjustment, check that the steering moves freely.





2-4-3 Steering Trim

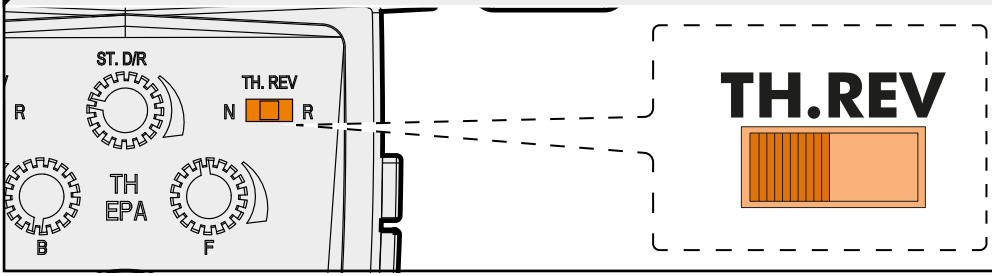
1 *Adjust the steering trim until the car drives straight.*



2-5 *Throttle Adjustments*

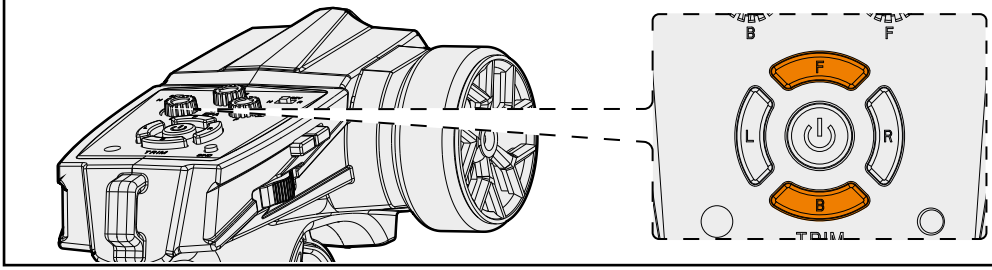
2-5-1 Throttle Reverse

1 *To Reverse the Throttle Direction*



2-5-2 Throttle Trim

1 *If the vehicle moves without any throttle input, adjust the Throttle Trim until the vehicle remains stationary.*



3 Setup/Customization

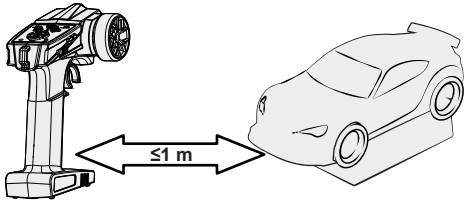
3-1 *Binding/Pairing*

Programming a receiver to recognize the code of only one specific transmitter. Binding and fail-safe settings are preset at the factory.

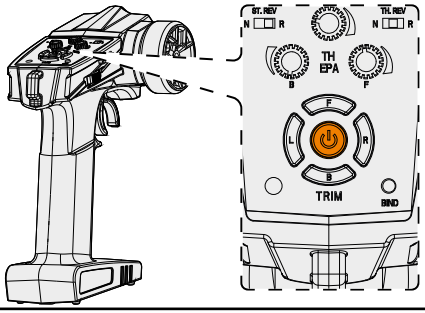
Caution Any new binding of transmitter & receiver will clear the preset fail safe.

Caution If you change transmitters or add a receiver, you must re-bind before operating your vehicle.

1 *Place the transmitter and the receiver close to each other (within one meter).*

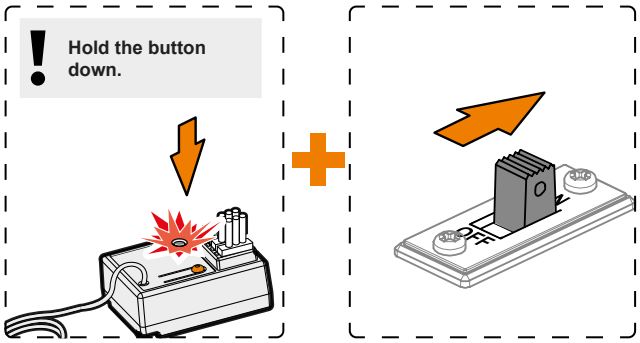


2 *Make sure the transmitter is switched off.*



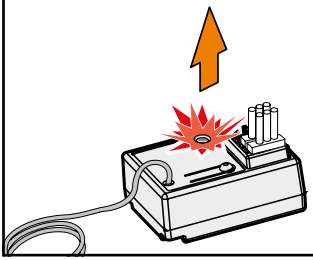
3 *Connect the vehicle battery. Press and hold the receiver setup button, then press the receiver ON button until the LED flashes. Release both buttons when the LED flashes.*

! Hold the button down.

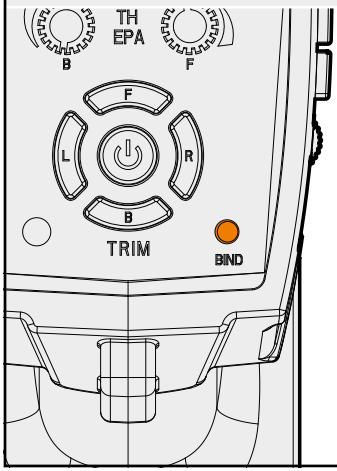


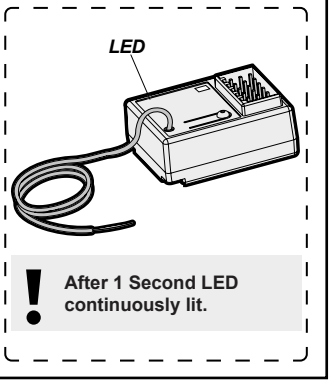
4 *Complete the next step within 15 seconds.*

! After 1 Second



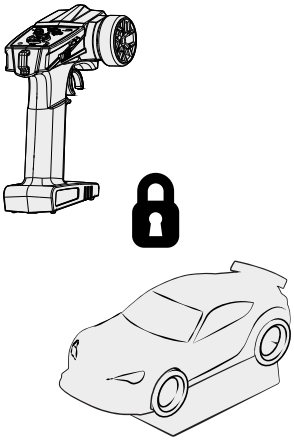
5 *Hold BIND and switch on the transmitter. The transmitter LED will flash. Release BIND after 1 second.*





After 1 Second LED continuously lit.

6 *Binding Complete.*



3-2 *Fail Safe System*

This car has a built-in Fail-Safe system that will stop the car if the radio signal is disrupted due to interference or if the car goes out of range.

Situations in which the Fail-Safe will operate:

HPI RF-51/ RF-51N/SRL-400	***When transmitter radio signal is cut off.***
HPI RF-51N/ SRL-400	***When battery charge is low.***

When the fail-safe is operating, the receiver LED goes out.

3-2-1 Checking Fail Safe

To check the failsafe:

1. Set the car so that the wheels can turn, but it will not move, either by putting on a stand or turning upside down.
2. Switch on the transmitter FIRST, then switch on the car.
3. Move the throttle trigger to turn the car wheels (accelerate).
4. Switch off the transmitter without releasing the throttle trigger.

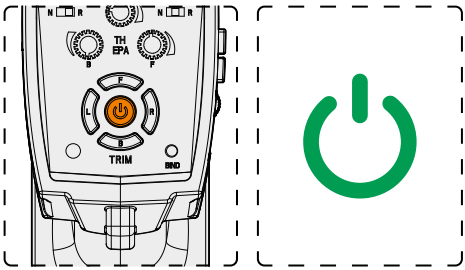
If the failsafe is working, the car's wheels should stop turning.

Caution **Any new binding of transmitter & receiver will clear the preset fail safe.**

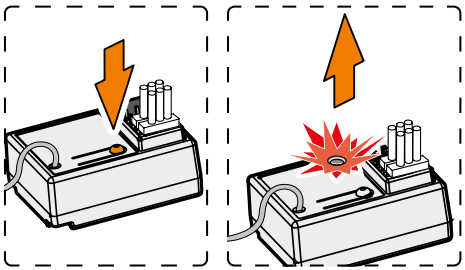
Caution **The fail safe cannot completely protect your car.**

3-2-2 Fail Safe Setup

1 *Switch on the transmitter FIRST, then switch on the car/receiver.*



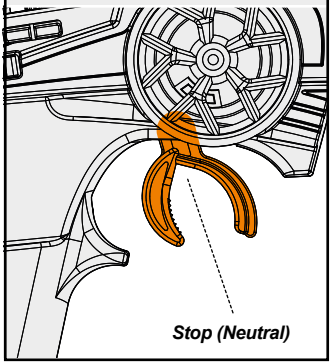
2 *Press the setup button on the receiver then release. LED will flash.*



3 *NOTE: Start step 4 within five seconds.*

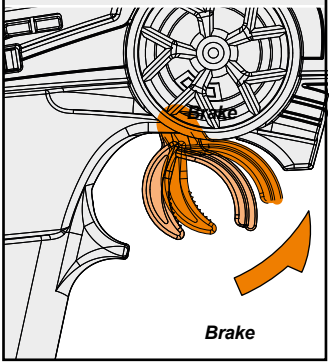
! After five seconds fail safe setup will reset, the LED will be continuously lit and you will have to start over at step one above.

4A *ELECTRIC: Leave throttle trigger in neutral position.*



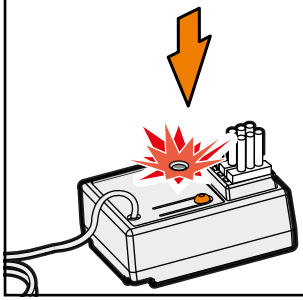
Stop (Neutral)

4B *NITRO: Move throttle trigger in brake position.*

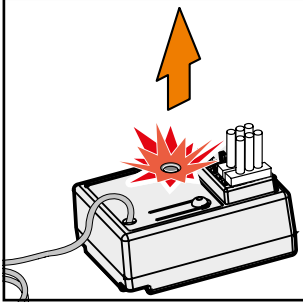


Brake

5 *Press the setup button and hold it down. The LED will flash quickly.*



6 *Once the receiver LED remains lit, release the setup button on the receiver. For Nitro models, release throttle trigger to neutral position.*



7 *To check fail-safe operation, follow Section 3-2-1 on page 11.*

i TX-??

3-3 End Point Adjustments (EPA)

End Point Adjustments (EPA) allow you to set the limits of travel of a car's throttle in relation to the corresponding movements on a transmitter.

The MTX-400 system allows for individual end points to be set for each direction of the throttle.

The two knobs are:

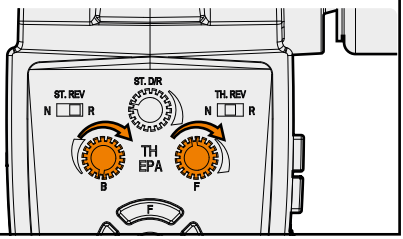
B= Throttle (Brake)

F= Throttle (Forward)

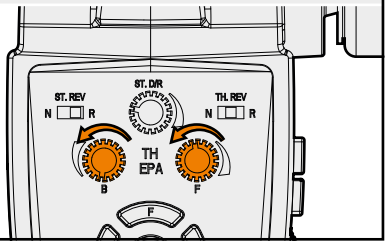
Caution **Do not adjust the servo beyond its limit. Damage may occur.**

3-3-1 Throttle EPAs (Electric Setup)

1 *Set the end point dials on the transmitter to the maximum setting.*

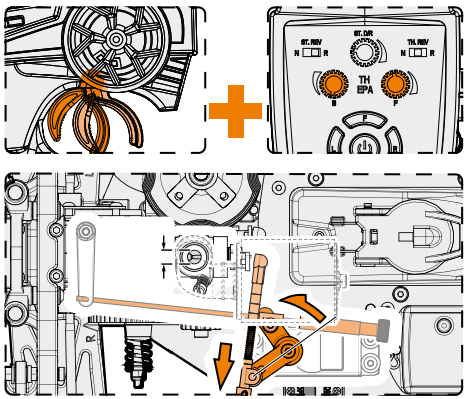


2 *After both the Transmitter and RC Vehicle are powered, the EPA settings can be adjusted to reduce your vehicle's maximum speed and braking power.*

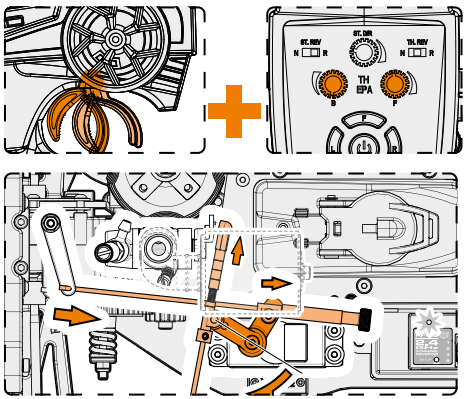


3-3-2 Throttle EPAs (Nitro Setup)

1 *Pull the trigger to maximum throttle and adjust your end point until the carburetor is wide open.*



2 *Push the trigger to maximum brake and adjust your end point until the brakes are fully applied.*



4 After Use

4-1 *Switching Off*

IMPORTANT: Switch off the ESC/receiver FIRST, then switch off the transmitter.

1. Remove the car body
2. Switch off the vehicle's ESC/Receiver power and disconnect the battery.
3. Switch off the transmitter
4. Remove the battery when not using the car.



Attention

Always switch off the ESC/receiver before the transmitter to prevent loss of control.



Caution

Disconnect the battery whenever the model is not in use.

If left connected, the vehicle may start unexpectedly or the battery may overheat and cause a fire.



Tip

Transmitter will emit an audible beep after 5 minutes of inactivity as a reminder to turn it off.

5 Troubleshooting

If RC car does not move or you have no control, see below

Problem	Cause	Remedy
Does Not Move.	Battery is not placed properly in the transmitter.	Place batteries in the transmitter properly.
	Weak or no battery in model.	Install charged battery.
	Damaged motor.	Replace with new motor.
	Frayed or broken wiring.	Splice and insulate wiring completely.
	ESC is shut down by heat protection circuit.	Stop driving immediately, do not drive the car until the Speed Controller cools down.
No Control.	Weak or no batteries in transmitter or model.	Install charged or fresh batteries.
	Neutral position or trim is incorrect.	Adjust the steering trim.
	Binding Setup is incorrect.	Make sure binding is setup properly.
Steering and Throttle Function Reversed.	Servo reverse switch is in the wrong position.	Set to correct position.
	Wires from ESC to motor are improperly connected.	Re-connect the motor.

FCC COMPLIANCE STATEMENT

This device transmits in the range 2.4 to 2.4835 GHz and has been tested to comply with the limits for a Part 15 Class B device 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. Any change or modification to the device not expressly approved by the manufacturer may void the user's authority to operate the equipment. 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.

Canada Compliance Statement:

This Class B digital apparatus complies with Canadian ICES-003. (Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.) This equipment complies with the FCC/IC radiation exposure limits set forth for FCC and Industry Canada portable transmitting devices operation in an uncontrolled environment. The equipment should only be used or installed at locations where there is normally at least a 20 cm separation between the antenna and all persons. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

CE *CE Compliance statement*

En The radio equipment type in this product transmits in the frequency range 2.4 to 2.4835 GHz with a maximum power of 18 dBm and is in compliance with EU Directive 2014/53/EU. The full text of the Declaration of Conformity is available at www.hpiracing.com/ce

De Die Fernsteuerung in diesem Produkt überträgt in dem Frequenzbereich 2,4 bis 2,4835 GHz mit einer maximalen Stärke von 20 dBm und sie ist in Übereinstimmung mit der EU Richtlinie 2014/53/EU. Der volle Text und die Erklärungen zur Konformität finden Sie unter www.hpiracing.com/ce

Fr Cet appareil transmet dans la gamme de fréquence de 2,4 à 2,4835 GHz avec une puissance de 20 dBm et est conforme à la Directive UE 2014/53 / UE. Le texte intégral de la Déclaration de conformité est disponible sur www.hpiracing.com/ce

Es El tipo de equipo de radio en este producto transmite en el rango de frecuencia de 2,4 a 2,4835 GHz con una potencia máxima de 20 dBm y cumple con la Directiva de la UE 2014/53/UE. El texto completo de la Declaración de conformidad está disponible en www.hpiracing.com/ce

Fi Tuotteen radiolähetin toimii taajuusalueella 2,4–2,4835 GHz ja suurimmalla teholla 20 dBm, ja se on EU-direktiivin 2014/53/EU mukainen. Vaatimustenmukaisuusilmoituksen koko teksti: www.hpiracing.com/ce

No Radioutstyrstypen i dette produktet sender på frekvensområdet 2,4 til 2,4835 GHz med en maksimal effekt på 20 dBm og er i samsvar med EU-direktiv 2014/53/EU. Den fullstendige teksten til samsvarserklæringen er tilgjengelig på www.hpiracing.com/ce

Da Radioudstyret i dette produkt sender på frekvensområdet 2,4 til 2,4835 GHz med en maksimal effekt på 20 dBm og er i overensstemmelse med EU-direktiv 2014/53/EU. Den fulde overensstemmelseserklæring findes på www.hpiracing.com/ce

Sv Radioutrustningen i denna produkt sänder i frekvensområdet 2,4 till 2,4835 GHz med en maximal effekt på 20 dBm och uppfyller EU-direktiv 2014/53/EU. Den fullständiga försäkran om överensstämmelse finns på www.hpiracing.com/ce

Pt O tipo de equipamento de rádio neste produto transmite na faixa de frequência de 2,4 a 2,4835 GHz com uma potência máxima de 20 dBm e está em conformidade com a Diretiva Europeia 2014/53/EU. O texto completo da Declaração de Conformidade está disponível em: www.hpiracing.com/ce

It Il tipo di equipaggiamento radio in questo prodotto trasmette nella gamma di frequenze 2,4 - 2,4835 GHz con una potenza massima di 20 dBm e rispetta la Direttiva UE 2014/53/EU. Il testo completo della Dichiarazione di Conformità è disponibile su www.hpiracing.com/ce

Tr Bu üründeki radyo ekipmanı türü, 2,4 - 2,4835 GHz frekans aralığında maksimum 20 dBm güçle yayın yapar ve AB Direktifi 2014/53/EU ile uyumludur. Uygunluk Beyanının tam metnine şu adresten ulaşabilirsiniz: www.hpiracing.com/ce

Ro Tipul echipamentului radio din acest produs transmite în intervalul de frecvențe 2,4 - 2,4835 GHz cu o putere maximă de 20 dBm și respectă Directiva UE 2014/53/EU. Textul complet al Declarației de Conformitate este disponibil pe www.hpiracing.com/ce

Pl Sprzęt radiowy w tym produkcie działa w paśmie częstotliwości 2,4 do 2,4835 GHz z maksymalną mocą 20 dBm i spełnia wymogi dyrektywy UE 2014/53/EU. Pełna treść Deklaracji Zgodności dostępna jest na stronie: www.hpiracing.com/ce

Cs Rádiové zařízení v tomto produktu vysílá v pásmu 2,4 až 2,4835 GHz s maximálním výkonem 20 dBm a je v souladu se směrnicí EU 2014/53/EU. Plné znění Prohlášení o shodě je k dispozici na stránce: www.hpiracing.com/ce

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