SPARE PARTS LIST

ITEM NO.	PRODUCT NAME
14103	FRONT HUB/STEERING ARM SET
14104	REAR HUB SET
14114	STEERING POST SET
14129	LOCK NUT (4MM AND 3MM)
14130	BALL BEARING 4X10X3 AND 8X12X3.5
14131	BALL BEARING 5X11X4
14139	SPUR GEAR 72T
14986	WHEEL HEX/DRIVE PIN SET
14994	HINGE PIN BRACE SET
15015	METAL MAIN DRIVE SHAFT FOR METAL DIFFERENTIAL GEAR
15224	BODY CLIP SET (S/M/L)
15239	INPUT GEAR SHAFT SET (F/R)
15339	GT10RS MERCEDES-AMG C-COUPE DTM 2014 (WHITE) CAR BODY PAINTED AND DECORATED BODY
15340	GT10RS MERCEDES-AMG C-COUPE DTM 2014 (RED) CAR BODY PAINTED AND DECORATED BODY
15343	GT10RS MERCEDES-AMG C-COUPE DTM 2014 (RED) CLEAR CAR BODY
15347	GT10RS MERCEDES-AMG C-COUPE DTM 2014 CAR BODY PLASTIC PARTS + REAR BUMPER SET
15348	GT10RS MERCEDES-AMG C-COUPE DTM 2014 FRONT BUMPER SET
15349	GT10RS FRONT SHOCK ASSEMBLED (PR.)
15350	GT10RS REAR SHOCK ASSEMBLED (PR.)
15352	PINION GEAR 24T
15354	GT10RS FRONT DOG BONE PAIR
15355	GT10RS REAR DOG BONE PAIR
15356	GT10RS DIFFERENTIAL OUTDRIVE SET
15357	GT10RS OUTDRIVE
15358	GT10RS THREAD ROD SET
15362	GT10RS SLIPPER SET
15363	GT10RS MERCEDES-AMG C-COUPE DTM 2014 (WHITE) CLEAR CAR BODY
15364	GT10RS SUSPENSION PIN SET
15367	MRS-540BL SERVO + RECEIVER +ESC UNIT
15368	SERVO MS-1135W
15369	GT10RS MERCEDES-AMG C-COUPE DTM 2014 LED ASSEMBLE
15370	GT10RS DIFF. GEAR SET
15371	GT10RS AUDI RS5 DTM 2014 (RED) CAR BODY PAINTED AND DECORATED BODY
15373	GT10RS AUDI RS5 DTM 2014 CAR BODY PLASTIC PARTS + REAR BUMPER SET
15374	GT10RS AUDI RS5 DTM 2014 (RED) CLEAR CAR BODY
15376	GT10RS AUDI RS5 DTM 2014 WHEEL ASSEMBELED (PAIR)
15378	GT10RS AUDI RS5 DTM 2014 FRONT BUMPER SET
15379	GT10RS AUDI RS5 DTM 2014 LED ASSEMBLE
15437	GT10RS BMW M4 DTM 2014 (WHITE) CAR BODY PAINTED AND DECORATED BODY
15438	GT10RS BMW M4 DTM 2014 CAR BODY PLASTIC PARTS + REAR BUMPER SET
15440	GT10RS BMW M4 DTM 2014 (WHITE) CLEAR CAR BODY
15441	GT10RS BMW M4 DTM 2014 WHEEL ASSEMBELED (PAIR)
15443	GT10RS BMW M4 DTM 2014 FRONT BUMPER SET
15444	GT10RS BMW M4 DTM 2014 LED ASSEMBLE

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Also avaliable at www.carisma-shop.com

Printed in China
MAN-G00607

10TH SCALE BRUSHLESS SPEC. GT10RS INSTRUCTION MANUAL

ABOUT THE RADIO SYSTEM

Carisma CTX-2710 2.4GHz FHSS Technology System

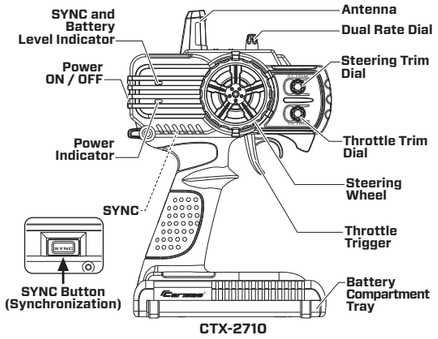
The following is an overview of the various functions and adjustments found on CTX-2710 radio system for Carisma models. It is important to read and understand about all of these functions and adjustments before driving.

FUNCTIONS

TRANSMITTER CTX-2710

Steering Wheel : Control direction (Left / Right) of the RC model.
Throttle Trigger : Control speed and direction (Forward/Brake/Backward) of the driving model.
Antenna : Transmit signal to the model.
Power ON / OFF : Power ON / OFF the transmitter
SYNC & Battery Indicator : Top Green LED light indicates synchronization status and/or adequate battery power supply.
Power Indicator : Bottom Red LED light indicates Power "ON".
Dual Rate Dial : Adjust the maximum steering angle on both sides when model turns Left / Right
ST. Trim Dial : Adjust the neutral position of steering servo when model wheels are straight ahead.
TH. Trim Dial : Make sure the model stays still when releasing the throttle trigger.
Battery Compartment Tray : Cover and hold the batteries powering the transmitter.

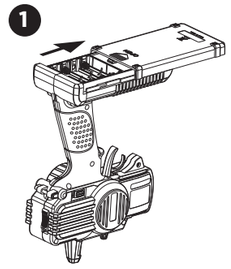
* In general, user will experience under steer when making a wide turn at high speed or over steer when making sharp turn at high speed (easy to spin out). User should practice the Throttle and steering approach for different cornering at different speed or road surface.



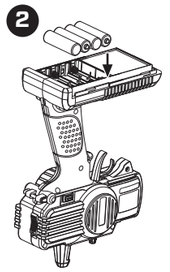
CTX-2710

Battery Installation

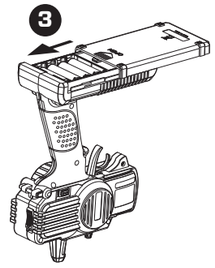
1. Supplied with 4 x 1.5V AA Batteries, radio can be operated a few hours. Installation: Remove the battery compartment cover as shown below.



2.Install the batteries observing the polarity marked on battery compartment.



3.Then reinstall the battery compartment cover as the Picture shown below.



Warning :
Never disassemble batteries or put the batteries in fire, chemical agents, otherwise they may cause personal injuries or property damages.

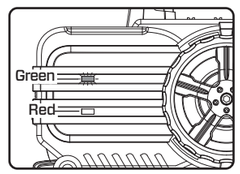
Battery Disposal :
Observe corresponding regulations about wasted battery treatment regulations.
1. After running out of power, dispose of wasted batteries in designated areas far away from water supply, household areas and planted areas.
2. Submit the wasted batteries to specific recycling stations.

Battery LED Indicator

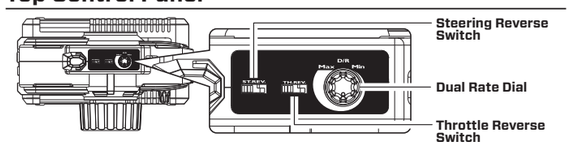
The Green LED indicator located on the front left side of the transmitter indicates the power supply of batteries. The green LED will go solid on indicating that the batteries have sufficient power. When batteries voltage drops below 4 volts, LED will turn to Flashing RED, indicating the batteries power is low and should be replaced.

Solid GREEN :
Sufficient Power supply

Flashing RED :
Time to replace batteries



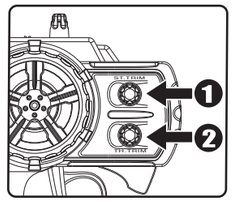
Top Control Panel



Reversing

Reversing is used to change the response direction of steering wheel and throttle trigger. CTX-2710 Transmitter features 2 reversing functions: Steering Reverse and Throttle Reverse.
Steering Reverse: Reverse the response direction when operating steering wheel. Turning left steering wheel, the model turns right while turning right the model turns left.
Throttle Reverse: Reverse the response direction when operating throttle trigger. Pushing forward throttle trigger the model moves backward while pulling back, the model moves forward. If necessary you can just use a small screwdriver to adjust the or responding switches.

Pre-Run Check



1. Steering : Adjust the steering trim to keep the front wheels in straight line when steering wheel remains in NEUTRAL position.

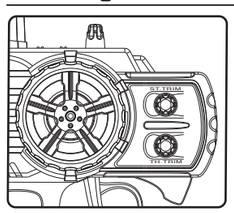
2. Throttle : Adjust the throttle trim to ensure the rear wheels stop rotating when throttle trigger remains in NEUTRAL position.

* Always turn on the transmitter first by sliding the switch on the left side from bottom to top. The small red and green lights above the switch should both light up. If not, you need to check for low or incorrectly installed batteries.

Dual Rate Dial

Dual Rate Dial enables to adjust the same maximum steering angle of servo on both sides (Left and Right) when model makes steering. The Dual Rate Dial affects the sensitivity of servo. Reducing dual rate value can lower the sensitivity of servo and reduce the same maximum steering angle on both sides. Remember to adjust the dual rate value within the adjustment range.

Trimming



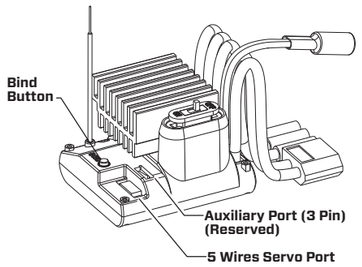
CTX-2710 features two trimming functions:
Steering Trim and **Throttle Trim**.
Steering Trim Dial :
Adjust the neutral position of steering servo when the wheels are straight ahead.
Normally steering trim is adjusted until the model can keep straight tracks.

Throttle Trim Dial :
Adjust neutral position of throttle servo.
Make sure the model stays still when releasing the throttle trigger.

Carisma®
DIGITAL PROPORTIONAL RADIO CONTROL MODELS

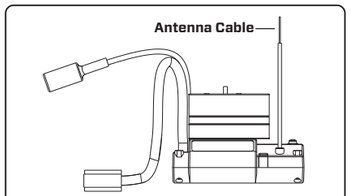
RECEIVER CONNECTION AND INSTALLATION

Carisma MRS-540BL RX/ESC Unit



Auxiliary Port (3 Pin)(Reserved):
Where to plug optional standard 3 wires servo or use as LED port.
Bind Button :
Synchronize transmitter and receiver.

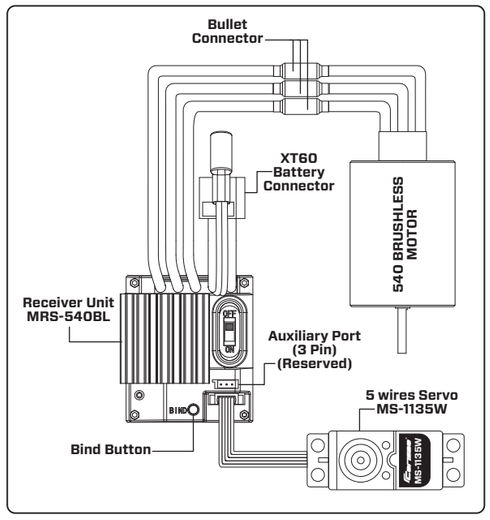
Warning :
- Never bend the metal pins on the PCB of receiver.
- Never cut the antenna cable.
- Install the antenna vertically as shown in the figure.
- Keep the antenna as far away from the motor, ESC and other noise sources as you possibly can.



Install the antenna vertically to the ground.

Remarks :
The mounting positions of receiver and antenna cable greatly affect the operating range.

Receiver / ESC Unit Features



Receiver (RX) Section

2.4GHz 2 Channels receiver
Compatible with Carisma 2CH FHSS radio, (eg. CTX-2710, CTX-2810, CTX-8000)
(Please refer "Binding Flow Chart")

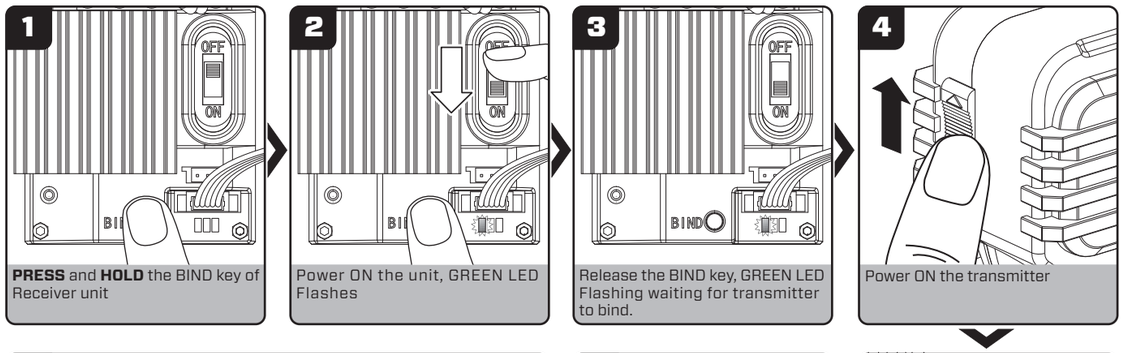
Integrated Servo controller, 5 wire / Option 3 wire servo port / LED Port
When unit is just Power ON, it will check whether a 5 wire servo MS-1135W is connected or not. If servo MS-1135W is connected, the 3 wire port will become Brake LED port (Only Carisma LED set can be used for this port). Else, the 3 wire port will become 3 wire servo port.

ESC Section

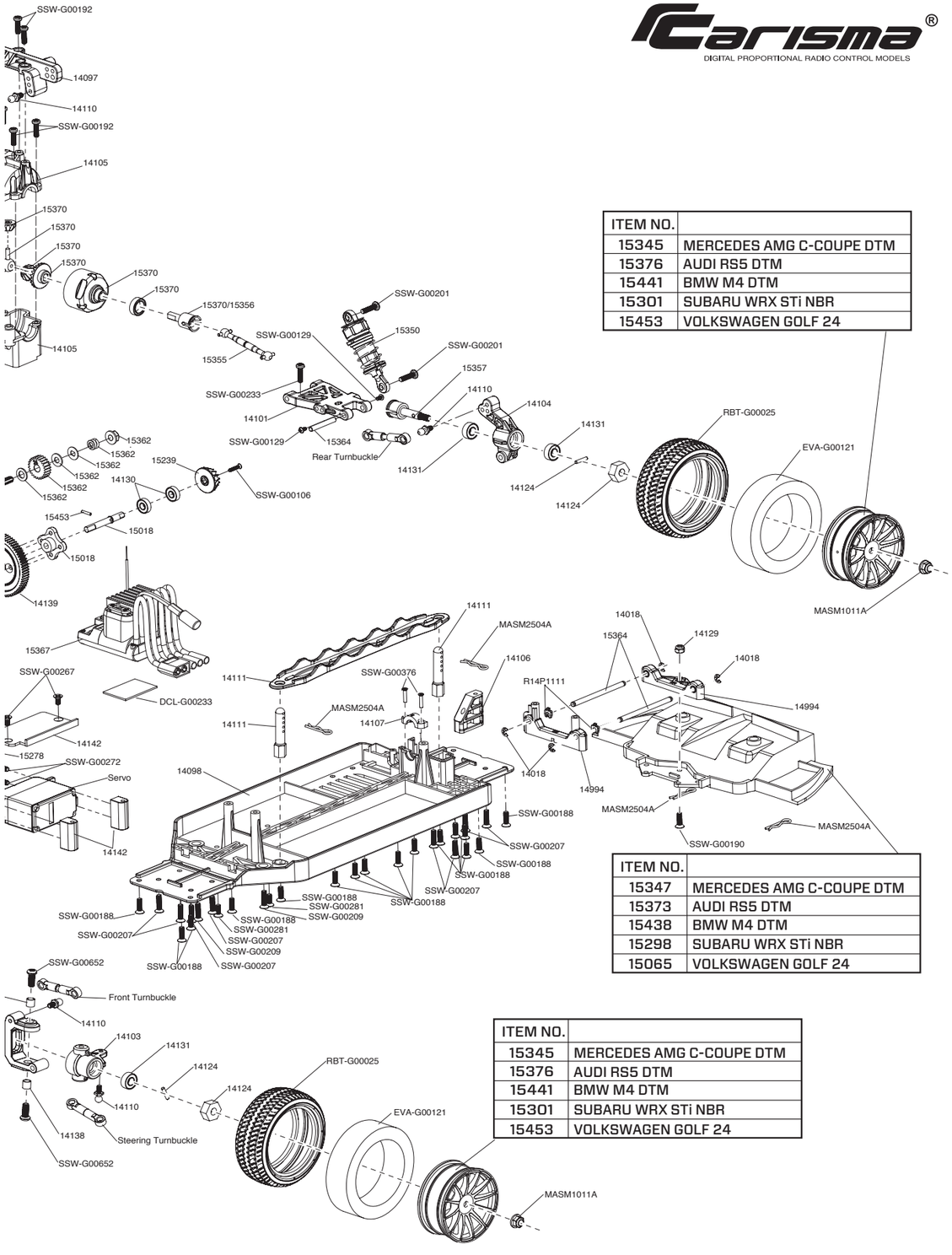
Programmable (Please refer to page 6 “ESC Setup Flow Chart”)
- Programmable Battery Type: NiHM or LiPO
- End Points Calibration
- ESC mode
  - Forward / Reverse with Smart Brake
  - Forward Only with Brake

Thermal Protection
Stall Protection
Over and Under Voltage Protection
LED indicator
- **Just after Power ON**
  LED will be flashed for 2 seconds to indicate the currently selected battery type instantly:
  Flashing BLUE LED, Battery = NiMH
  Flashing RED LED, Battery = LiPO
- **Normal Operation**
  Neutral: BLUE LED Solid ON (Forward / Reverse with Smart Brake)
  Flashing BLUE LED (Forward Only with Brake)
  Forward (NOT Full Speed): RED and BLUE LED OFF
  Forward (Full Speed): RED LED ON
  Reversing (NOT Full Speed): RED and BLUE LED OFF
  Reversing (Full Speed): BLUE LED ON
  Brake: RED and BLUE LED ON

Binding Flow Chart



NOTE: IF BINDING PROCESS FAIL, REPEAT FROM STEP 1 AND TRY AGAIN.



ITEM NO.	
15345	MERCEDES AMG C-COUPE DTM
15376	AUDI RS5 DTM
15441	BMW M4 DTM
15301	SUBARU WRX STi NBR
15453	VOLKSWAGEN GOLF 24

ITEM NO.	
15347	MERCEDES AMG C-COUPE DTM
15373	AUDI RS5 DTM
15438	BMW M4 DTM
15298	SUBARU WRX STi NBR
15065	VOLKSWAGEN GOLF 24

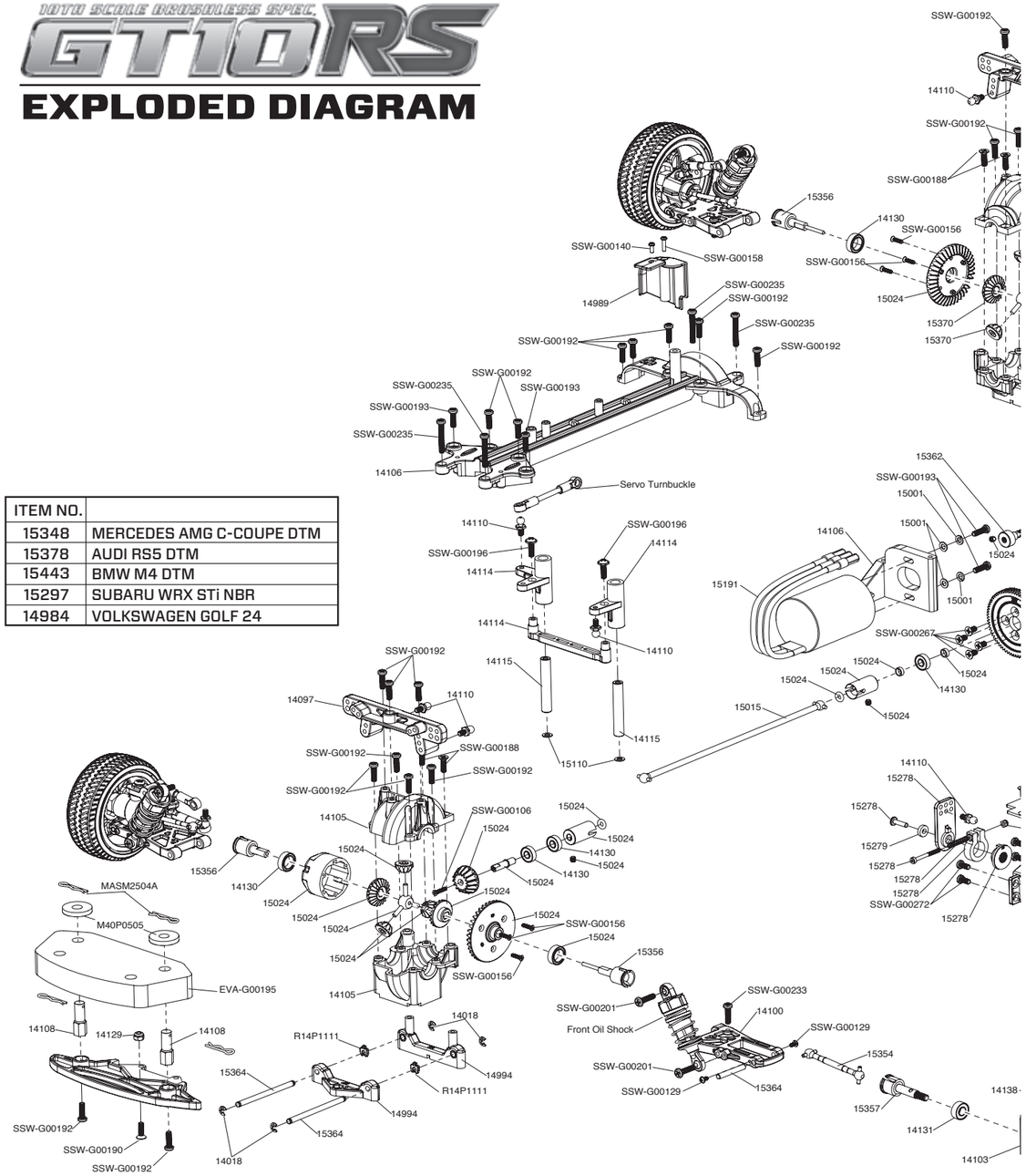
ITEM NO.	
15345	MERCEDES AMG C-COUPE DTM
15376	AUDI RS5 DTM
15441	BMW M4 DTM
15301	SUBARU WRX STi NBR
15453	VOLKSWAGEN GOLF 24

1/10 SCALE BRUSHLESS SPEC.

GT10RS

EXPLODED DIAGRAM

ITEM NO.	
15348	MERCEDES AMG C-COUPE DTM
15378	AUDI RS5 DTM
15443	BMW M4 DTM
15297	SUBARU WRX STi NBR
14984	VOLKSWAGEN GOLF 24



ITEM NO.	
15348	MERCEDES AMG C-COUPE DTM
15378	AUDI RS5 DTM
15443	BMW M4 DTM
14102	SUBARU WRX STi NBR
15065	VOLKSWAGEN GOLF 24

SAFETY PRECAUTIONS

⚠ Safety Precautions

THIS MODEL IS ONLY SUITABLE FOR PEOPLE 14 YEARS OLD AND UP.
THIS RADIO CONTROL MODEL IS NOT A TOY.

Beginner should seek advice from experienced person in order to assemble the model or parts correctly and to make best performance.

* Assemble this model or parts only in place out of children's reach, and take safe precautions before operating this model. User is fully responsible for the model assembly and safe operations.

Safety, Precautions, and Warnings

As the user of this product, you are solely responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

This model is controlled by a radio signal that is subject to interference from many sources outside your control. This interference can cause momentary loss of control so it is necessary to always keep a safe distance in all directions around your model, as this will help to avoid collisions or injury.

- Always operate your model in an open area away from cars, traffic, or people.
- Avoid operating your model on the street where injury or damage can occur.
- Never operate the model out into the street or populated areas for any reason.
- Never operate your model with low transmitter batteries.
- Carefully follow the directions and warnings for this product and any optional support equipments (chargers, rechargeable battery packs, etc.) that you use.
- Keep all chemicals, small parts and anything electrical out of the reach of children.
- Moisture causes damage to electronics. Avoid water exposure to all equipments not specifically designed and protected for this purpose.

Introduction

This is a sophisticated hobby product and not a toy. It must be operated with caution and common sense. User also requires some basic mechanical abilities. Fail to operate this product in a safe and responsible manner could result in injury or do damage to the product or other properties. This product is not intended for use by children without direct adult supervision. The product manual contains instructions for safe operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

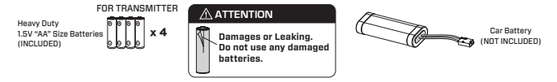
CE Compliance Information For The European Union

The associated regulatory agencies of the following countries recognize the noted certifications for this product as authorized for sale and use.

UK	DE	DK	BG	SE	CZ	ES	NL	SK	HU	RO	FR	PT
FI	EE	LV	LT	PL	AT	CY	SI	GR	MT	IT	IE	LU

Instructions for Disposal of WEEE by Users in the European Union

This product must never be thrown away with other waste. Thus the users are liable for disposing the wasted model by submitting them to designated collection stations specific for recycling electronic and electric items. Disposing of the wasted model in this way is helpful to conserve natural resources and enable to keep human health and protect the environment. For more information about wasted model disposal and recycling, please contact your local city office, your disposal service or where you purchased the product.



Declaration of Conformity
Products: Carisma CTX-2710 2.4GHz Transmitter, MRS-540BL Receiver
Equipment Class: 2
The objects of declaration described above are in conformity with the requirements of the specifications listed below.

Item Name : Carisma CTX-2710 2.4GHz Transmitter and MRS-540BL Receiver
EN 301 489-1 V1.9.2
EN 301 489-17 V2.2.1
ETSI EN 300 328 V1.8.1

Directive 1999/5/EC (R&TTE)
Article 3.1a Health
Article 3.1b EMC
Article 3.2 Radio Spectrum

FCC ID YDTMTM27HP
Statement - 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Warning:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
And should be operated with minimum distance of 20 cm between the antenna & your body.

TROUBLE SHOOTING GUIDE

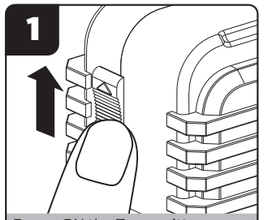
Trouble Shooting

Problem	Possible Cause	Solution
Short run time / Running slow	• Battery not fully charged • Battery power has run down • Motor gets dirty or worn out • Wheel nuts are over tightened • Dust or other objects are inside the gears • Bind drivetrain	• Fully recharge batteries • Replace new batteries • Clean / Replace the damaged part of motor • Slightly loosen the wheel nuts • Clean the gears • Full check all drive trainparts
Don't Run straight	• Steering trim is not adjusted correctly	• Adjust the steering trim on the transmitter.
Model doesn't stop when throttle trigger stay at " Neutral " position	• Throttle trim is not adjusted correctly	• Adjust the throttle trim on the transmitter
Model doesn't operate	• Transmitter batteries have run down • Transmitter not switched on • ESC / Receiver not switched on • Battery power has run down • Poor synchronization of transmitter and receiver	• Replace new AA alkaline batteries • Turn on the transmitter • Switch on the ESC / Receiver • Replace new batteries • Resynchronize transmitter and receiver
Reversed transmitter steering direction	Improper setting of throttle reverse switch	Check steering reverse switch and set to the opposite side.
Reversed transmitter throttle direction	Improper setting of steering reverse switch	Check throttle reverse switch and set to the opposite side.
Poor operating range	• Transmitter battery low • Transmitter antenna not pointing upward • Battery power has run down • Receiver antenna Cut / Worn	• Check / Replace new AA batteries • Let antenna pointing upward • Charge up the battery and retry • Check if properly attaching or repair if necessary
Lose Control	• Batteries have run down • Receiver antenna Cut / Worn	• Check / Replace new batteries • Check Receiver Antenna
Steering doesn't work	• Servo gears damaged • Servo Saver Broken	• Replace a new servo • Replace new servo saver
Receiver Unit NO Function	• Signal Loss • Green LED flashes quickly 2 times, turn OFF for a while and repeat again.	• Check if the transmitter is Power OFF.
3 wire servo NO Function	5 wire servo is connected	Power OFF the unit. Disconnect 5 wire servo and power on the unit.
ESC NO Function	• Overheat Protection : RED and BLUE LED alternative flashing quickly	WAIT until the Unit cool down completely
	• Motor Stalled Protection : RED LED flashes quickly 3 times, Turn OFF for a while and Repeat again.	WAIT until the Unit cool down completely
	• Over Voltage Protection (Battery over 13V) : RED LED SOLID ON and BLUE LED Flashing ONCE per second	Replace battery pack
	• Under Voltage Protection (Battery under 10.2V for 3S LiPO / 6.8V for 2S LiPO / 4.8V for NiHM) : BLUE LED SOLID ON and RED LED Flashing ONCE per second	Replace battery pack
ESC NO Reverse Function	• ESC mode "Racing Mode" is selected BLUE LED Flashing at STOP position	Select ESC Sport / Racing mode according to Page 6 "ESC Setup Flow Chart"

RECEIVER / ESC UNIT (MRS-540BL) FUNCTIONS

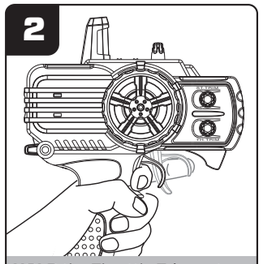
ENTER SETUP MODE (SWITCH OFF THE MRS-540BL BEFORE ENTER SETUP MODE)

1



Power ON the Transmitter

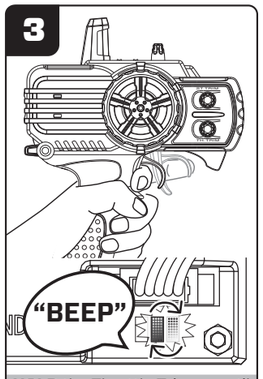
2



HOLD the Throttle Trigger to Max. Forward Position

Power ON Receiver Unit (MRS-540BL)

3



HOLD the Throttle Trigger until RED & BLUE LED **Alternatively** Flashing with a "BEEP" sound

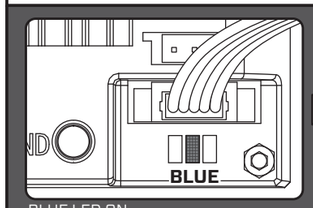
4

Release Throttle Trigger

5

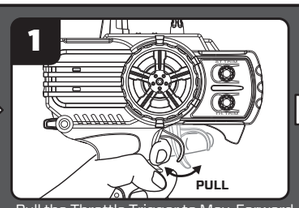
SETUP FLOW CHART

BATTERY TYPE SELECTION MODE



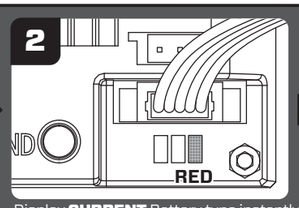
BLUE LED ON
(Indicate "Select Battery Type")

1



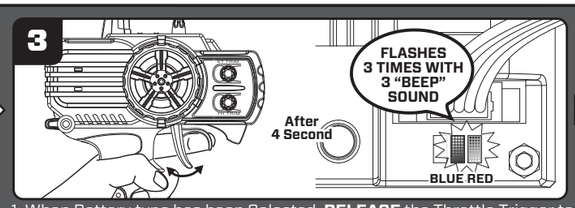
Pull the Throttle Trigger to Max. Forward position to toggle Battery type

2



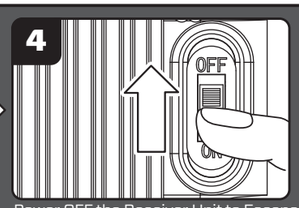
Display **CURRENT** Battery type instantly
RED LED ON = LiPO Battery
BLUE LED ON = NiHM Battery

3



1. When Battery type has been Selected, **RELEASE** the Throttle Trigger to **Neutral position**.
2. **After 4 second**, selection made with **RED and BLUE LED Flashes 3 times with 3 "BEEP" sound**, Battery Select has been completed.

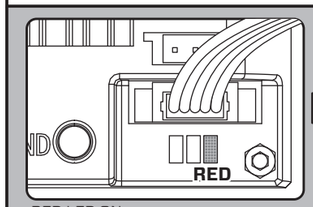
4



Power OFF the Receiver Unit to Escape from Setup mode.

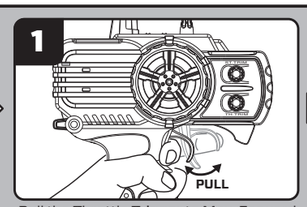
APPROX 2 sec.

CALIBRATION MODE



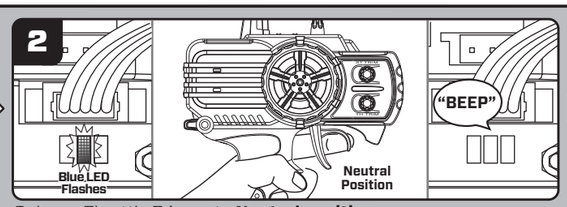
RED LED ON
(Indicate "Calibration Mode")

1



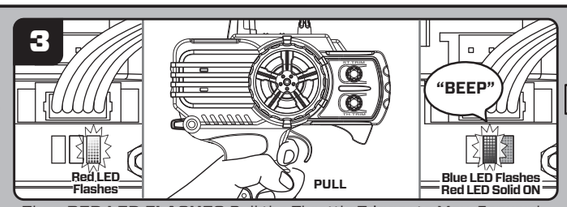
Pull the Throttle Trigger to Max. Forward position.
RED LED OFF and BLUE LED Flashes

2



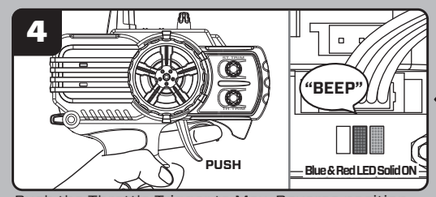
Release Throttle Trigger to **Neutral position**
BLUE LED SOLID ON with a **"BEEP"** Sound, then **BLUE LED OFF**
Throttle Neutral Position has been set.

3



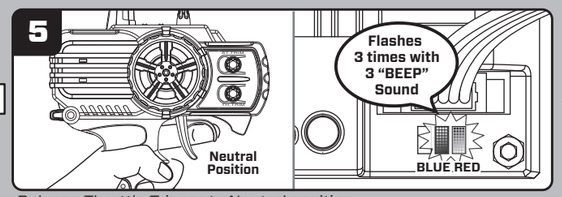
Then **RED LED FLASHES** Pull the Throttle Trigger to Max. Forward position. **RED LED SOLID ON** and **BLUE LED FLASHES** with a **"BEEP"** sound Max Forward has been set.

4



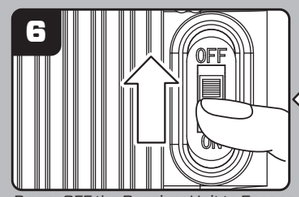
Push the Throttle Trigger to Max. Reverse position.
RED and BLUE LED SOLID ON with a **"BEEP"** sound.
Max. Reverse has been set.

5



Release Throttle Trigger to Neutral position
RED and BLUE LED FLASHES 3 times with 3 "BEEP" sound.
Calibration has been completed.

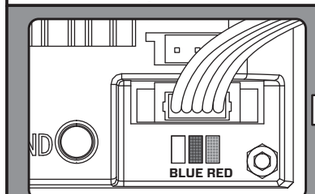
6



Power OFF the Receiver Unit to Escape from Setup mode.

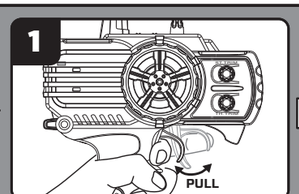
APPROX 2 sec.

ESC SPORT / RACING MODE



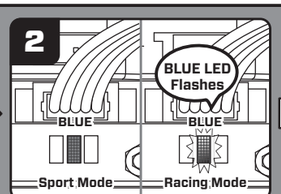
RED and BLUE LED ON
(Indicate "Select ESC Mode")

1



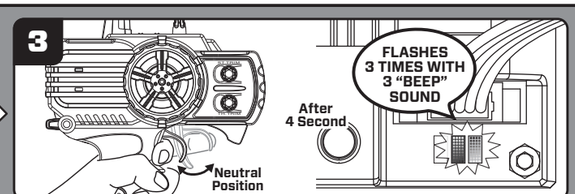
Pull the Throttle Trigger to Max. Forward position and then release

2



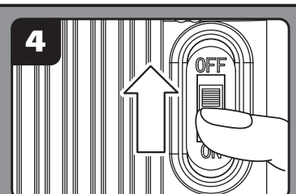
Display **CURRENT** ESC Mode instantly
Sport Mode : BLUE LED ON = Forward/Reverse with Smart Brake
Racing Mode : BLUE LED FLASHES = Forward Only with Brake

3



Pull the Throttle Trigger to Max. Forward position to toggle ESC mode. When ESC mode is selected, **RELEASE** Throttle Trigger.
After 4 second, **RED and BLUE LED FLASHES 3 times with 3 "Beep" sound**. ESC mode setup has been completed.

4



Power OFF the Receiver Unit to Escape from Setup mode.

APPROX 2 sec.

If Fail to Pair, Suggest to Repeat From Begin to Try Again