

1/10 Scale 4WD Electric monster truck

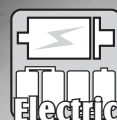
Manual

www.zdracing.com

BRUSHLESS/BRUSHED
#9106/#9105

THUNDER

ZMT-10



ZMT-10 Specifications

Length: 17.62" (446mm)
Width: 12.68" (321mm)
Height: 8.22" (208mm)
Wheel Base: 11.64" (294.5mm)
Gear Ratio: 11.69 : 1
Wheel Spec: $\Phi 122 \times 60 \text{mm}$
Ground Clearance: 2.05" (52mm)

ZD RACING

This manual expatiates the structure of the model. In order to better maintain and replace the spare parts, please keep and take it for reference. The user who is not familiar with the assembling, please contact with the wholesaler, nominated model shops and the Special after-sale service outlets.

The actual version is subject to the real standard. It would be varied because of different versions.

The spare parts, appearance of this model will be tiny revised and changed before totally upgrade into a new version, ZD reserve this rights, and no further notice.

INTRODUCE

Thank you for choosing the ZD racing series products. Our company take the target of offering the top quality and best service. Through attending the competitions and repeated testing the products, constantly enhancing our experience, then further improving the design and quality control. Only for showing the great performance products. This manual including all the important matter before operating the car. We advise studying and knowing the control system before assembling or playing it. As well as the further upgrade and maintenance. Please feel free to consult our authorized dealer, nominated model shop or special after-sale service station if any question refer to the play or use. Our website is: www.xingyaohua.com. We are wholeheartedly for your service.

QUALITY ASSURANCE

Our company take the fully responsibility to the quality defect during the manufacturing process. This assurance is only subject to the product only and its spare parts.

These situation below are not included:

The breakage caused by using, assembling or adjustment.
The other breakage not related to the quality itself.

IMPORTANT STATEMENT

The Model Car is not a toy. It is the casual item combine a lot of high technology products. If using improper may bring serious damage. Please read the manual detailed before using, and keep yourself safe.

Attention: Any operation of the Model car, the manufacturer and dealers are incapable of take the responsibility of the accidents caused by wear out or abnormal assemble.

This product is provided to those who have operation remote control model car experience or a technical personnel in the guidance of the local legal field, in has to ensure the safe and correct operation under the condition of use. Our company will not accept any operation and use the control on any performance and safety responsibility

The RC products are belong to consumable goods, if disassemble, it may cause the spare parts loss. Any use of goods caused by bad or not satisfied, will not be able to replace or return, such as in case of operation maintenance problems, the company designated national distributor model shop and special after-sale service store will provide technical guidance, and special parts supply services.



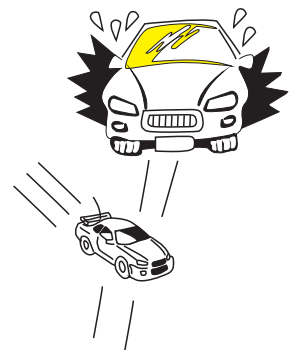
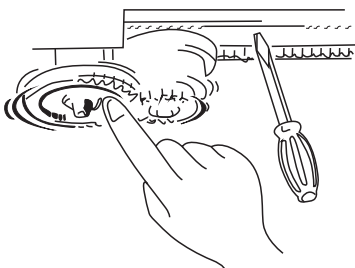
Warning: because of the neglect of these operating instructions, and use wrongly may cause property damage or serious injury.

Note: because of the neglect of these operating instructions, and use wrongly could be dangerous.

Ban: in any prohibited environment, do not try to operation.

SAFETY GUIDELINES

1. Don't operation the models close to open fires or near heat source.
2. Operation must be in the open and dry site .
3. The thunderstorm weather is forbidden to operate this product.
4. Away from the high voltage cables.
5. Some of the parts will be exothermic or burning after operated.
6. Please do not use hand or foreign body contact activities of the parts before cut off the power supply, .
7. During the operation, if foreign matter or liquid get into eyes, please timely with plenty of water flush eyes, and immediately consulting professional doctor. As the body is injured, please seek immediate medical attention.
8. Keep out of the reach of children, this is not toy, strongly suggest adult supervision.
9. Placed in ventilated and dry place, do not use, take the battery out.
- 10.The product items do not diet or swallowed.



Checking the packaging and accessories

Opened the packing box, please check the attached accessories are complete or incomplete. If there are omissions, please go to the seller's.

Brushless(9106)

1



ZMT-10 Car

2



2.4G 3 channel
Remote control

3



Power Charger

4



Charger/DC 12V
power wire



7.4V 2400mAh 25C
Li-po battery

Brushed(9105)

1



ZMT-10 Car

2



2.4G 3 channel
Remote control

3



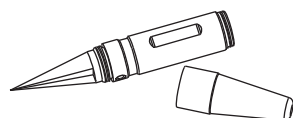
Power Charger

4



7.2V 1800mAh
Ni-MH battery

Recommended maintenance tools(not included)



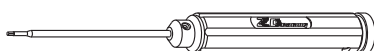
#1328
Body Reamer



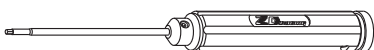
#1329
Hobby Scissors



#1330
3.0 Cross Wrench



#1331
1.5 Hex Wrench



#1332
2.0 Hex Wrench



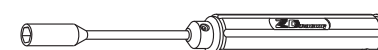
#1333
2.5 Hex Wrench



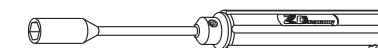
#1334
5.0 Nut Driver



#1335
5.5 Nut Driver



#1336
7.0 Nut Driver



#1337
8.0 Nut Driver

Symbols used throughout the instruction manual



All kinds of grease
(not included on the
products)



Apply CA glue
(not included)

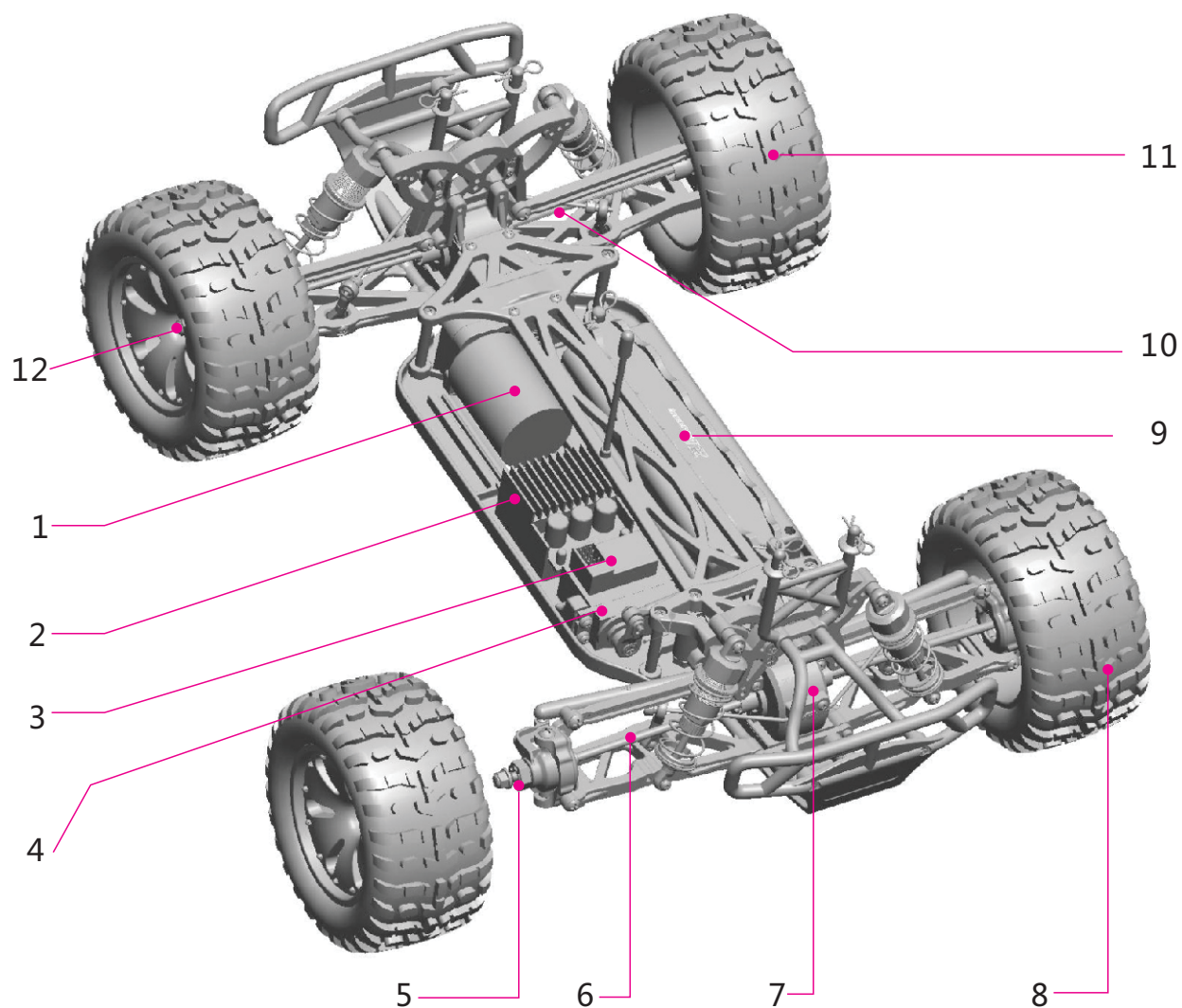


Assemble both
L/R sides



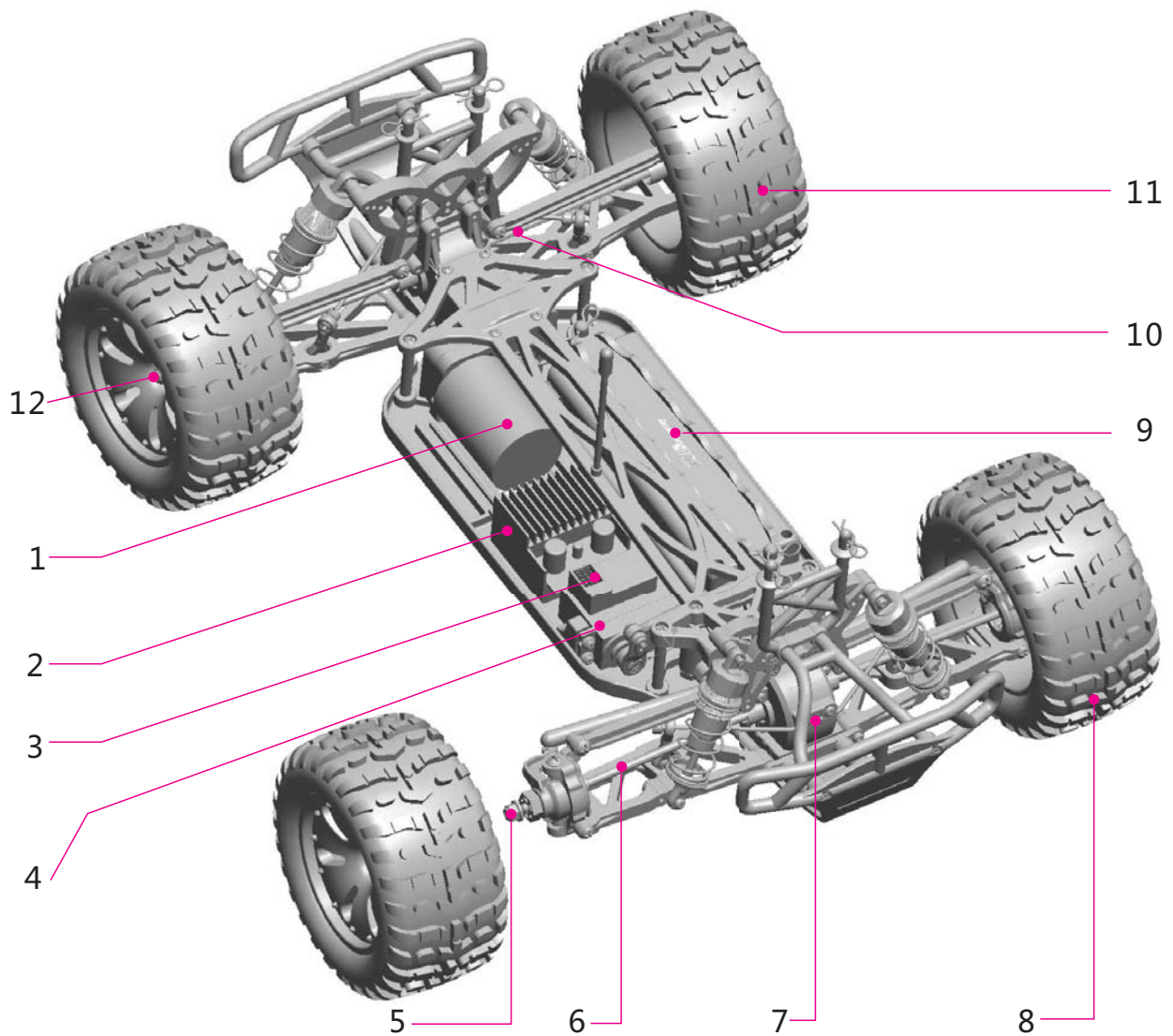
Assemble both
F/R sides

ZMT-10 Brushless Car



1	Brushless Motor	8	Front Tire
2	Brushless ESC	9	Battery
3	Receiver	10	Drive Shaft
4	Servo	11	Rear Tire
5	Wheel Hub	12	Locknut
6	Drive Shaft		
7	Gear Box		

ZMT-10 Brushed Car



1	Brushed Motor	8	Front Tire
2	Brushed ESC	9	Battery
3	Receiver	10	Drive Shaft
4	Servo	11	Rear Tire
5	Wheel Hub	12	Locknut
6	Drive Shaft		
7	Gear Box		

RADIO-Part Number



1	Antenna
2	Directional neutral knob
3	Switch of 3rd channel
4	Throttle ratio switch
5	ST (rudder) disc
6	TH (throttle) trigger
7	ST (rudder) forward / reverse rudder switch
8	Battery cartridge
9	ST (rudder) big / small rudder angle knob
10	TH (throttle)forward / reverse rudder switch
11	Power switch
12	Throttle neutral knob
13	Power indicator

The connection of receiver

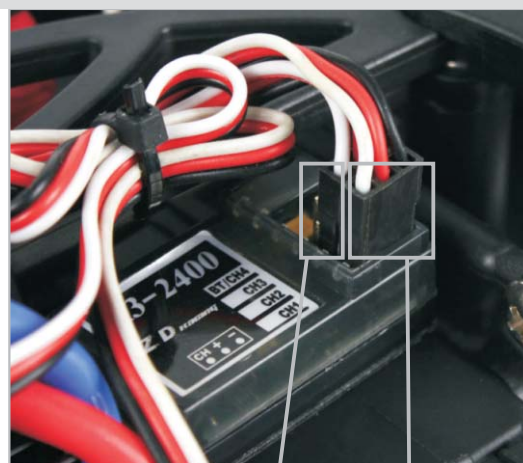


signal wire power line+ power line-

(1)



CH4---Mains input
CH3---The third channel
CH2---ESC
CH1---Teering Servo

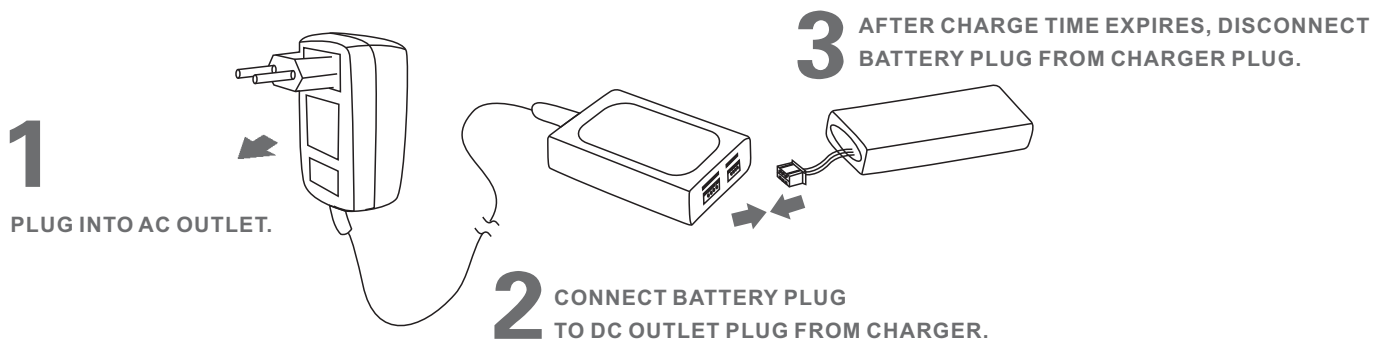


ESC Servo

(2)

CHARGING THE BATTERY PACK

- A. Once the battery ready to be charged, first plug the AC quick charger into the outlet of AC power source, and then connect the battery input/output harness to the charger.
- B. Continued to monitor the battery as it is being charged. As soon as the battery is fully charged, disconnect the battery. from the charger plug (Over-charging or charging incorrectly using inadequate chargers may cause the battery pack to become dangerouslyhot).
- C. For best results, let the battery pack cool before charging. Heat may prevent the battery pack from charging to full capacity and also decreases the performance of the battery.



LiPo BATTERIES

Lithium Polymer (Li-Po) batteries are becoming popular for use in R/C models due to their compact size, high energy density, and high-current output. However, these types of batteries require special care and handling procedures for long life and safe operation.

Warning: Lithium Polymer (Li-Po) batteries are intended only for advanced users that are educated on the risks associated with Li-Po battery use. THUNDER TIGER/ACE RC does not recommend that anyone under the age of 16 use or handle Li-Po battery packs without the supervision of a knowledgeable and responsible adult.

Important: Do not use NiCd/Ni-MH battery chargers for Li-PO batteries. If you do not use a special charger for Li-PO battery, they will be damaged.

Please note! Consumers for use or installation of lipo battery in the remote control model belongs and cause any Direct or indirect damages, our company will not bear any legal liability.

Racing Operation Steps

Racing Steps



1 Open the cap of the radio



2 Put 4 AA batteries into the battery tank
(Please note the Positive and Negative)



3 Cover the cap of the radio

Note: 1. In order to get the better control effect, we recommend you to use AA1.5 V alkaline batteries (not included in the product), the ratio of 1.2 V rechargeable battery effect is better. 2. Battery if installation errors of the pole, or long time no management will lead leakage. 3. Do not use the old battery and new battery hybrid together. 4. If long time idle, do not leave the battery in the remote control.



4 Properly installed antenna tube



5 put the battery into the battery tank



6 cover the battery box



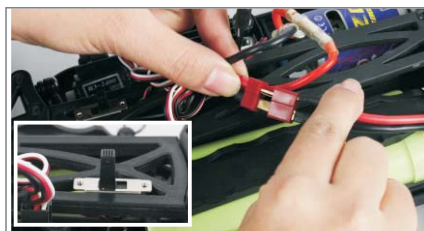
7 Adjust the throttle, steering vernier adjustment knob button to median (MID) direction. big/small rudder Angle knob button to 120%



8 Be sure to first open the remote control power, and then open the model car power supply, switch on the power, the motor delivering a diz ~ diz ~ ~ sounds, it means the motor for standby state. open radio button, the motor will begin to run.



Finish racing note



10 Turn off the ESC and disconnect the power plug.



11 Turn off the radio

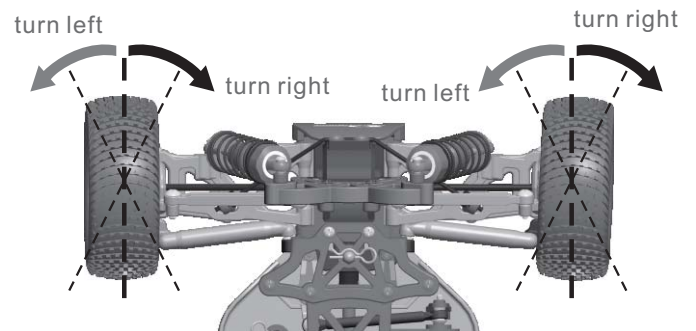
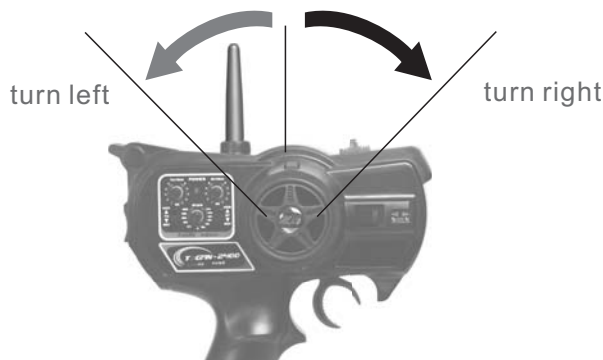


12 Put out the battery

The adjustment of Radio

First open the transmitter power, connect the Lipo battery power output plugs and electronic governor power input plug. Then turn on the ESC. (The 1 ps 7.4 V battery on the car, when turning on the power supply must pay attention to the positive and negative pole), hearing the tone or the power indicator light is lit.

Steering operation guide



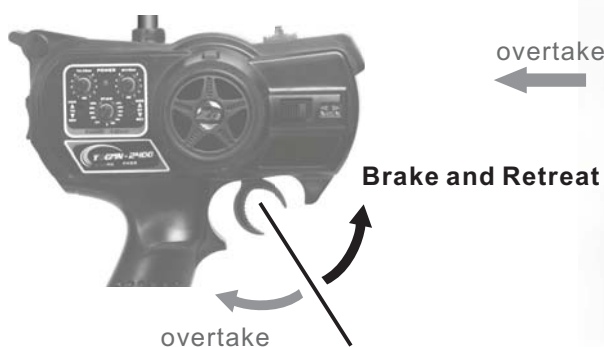
- 1) slowly rotating around the steering wheel, the car will be slow to the right or to the left accordingly (when there is no consistent please toggle on the remote control ST direction and rudder switch).
- 2) when the cars can't run straight, you can adjust the direction of the remote control on the median knob, until the vehicle can run straight.

Center Position

Center Position

- ◆ Adjust the Median trimming to keep the front wheel in the center position
- ◆ When testing the diversion of the car, please keep the front wheel hang in the air.

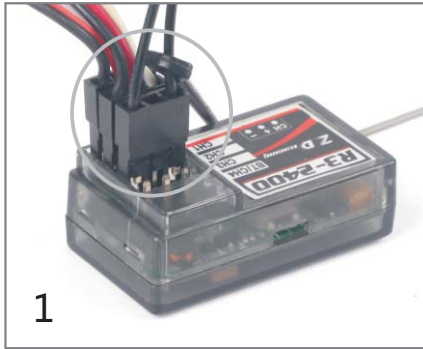
Throttle operation



- (1) Slowly press the throttle operation lever, the cars will be slow to overtake.
- (2) When the throttle lever to push up, the car will be braking action. when making brake - median - brake action, the car will make back action. when there is not consistent, please strike on the remote control of TH (oil Door) and rudder switch.
- (3) When the throttle machine didn't do any action, wheels appear to be automatic forward or backward rotation, you can adjust the throttle median knob on the remote control, until the car static.
- (4) When press the throttle lever, but the car no any reaction (perhaps with diz diz diz ~ ~ ~ ~ the buzzing sound), but the rudder function is normal, it shows that the car drive system get into safe mode, now please correct TH (throttle) a knob, until the gas operation normal or buzzing sound stop.

Recode match Steps

Insert the code line



Turn on the ESC



Open the receiver power supply



First, turn off the power of car, second, let the code line insert into channel 3 of the receiver, third, turn on the power of the car, the red indicator of receiver is flashing, then, open the power of receiver, it flashes too, when the indicator on the receiver keeps on, showing it succeeds.

FAIL SAFE FUNCTION

1. Function

Failsafe aims to prevent out-of-control driving of RC Car or RC Boat. If the Receiver is not able to receive any signal, from the control to Throttle, the parameter of Throttle on Receiver will turn back to its original setting.

2. Setting

- Turn on the Transmitter switch;
- Turn on the Receiver switch, the LED will be lighting;
- Adjust Transmitter's Throttle, make the car/boat to stop or flameout, then keep still.
- Press the "Setting" button on Receiver (as the pic below), the LED will be flashing, then stop after 3 seconds around, which means setting finished.

3. Testing

- Turn on the Transmitter switch;
- Turn on the Receiver switch;
- Turn off the Transmitter switch;
- Servo of Throttle will turn back to its original setting automatically;
- Setting is successful if above procedures finished completely.





TROUBLESHOOTING


If you have trouble starting or keeping your love car running, here's a quick checklist of what to look for first.


Description	Problem	Solution
Car dies or slows	Speed control over heats	Let it cool and try later
Car is glitching	Car has a problem on power	Check for loose wires, dead radio batteries or loose crystals. Check motor capacitors, losse wires or crystals.
Motor is overheats	Gear mesh is too tight	Let motor cool and check recommended gearing for motor type. Reset gear mesh
No power	Battery is discharged	Charge battery Charge battery
No throttle	Motor not plugged in Motor failure No throttle, only steering	Plug motor in Replace motor A-T-L function works; turn off the vehicle first and follow the guide to turn on the radio. (Radio first, vehicle second!!!)
	Motor keeps running	Check if the throttle trim knob is in neutral position.
No steering	Servo not plugged in Locked up steering linkage Servo failure	Plug servo into ESC unit Free up steering linkage Replace servo
Reversing	Goes backwards when you pull the trigger or goes right when turning the wheel left	Check throttle / steering reversing switches on transmitter


1:1 Scale


 x8
7244
M2x10 Socket Cap Screw


 x2
7276
φ10xφ5.5x0.3 Washers

 x6
7275
φ8xφ5.1x0.3 Washers


 x4
7272
E button φ2.5x0.4

 x2
7251
M3X10 Pan Self-tapping Screw Set

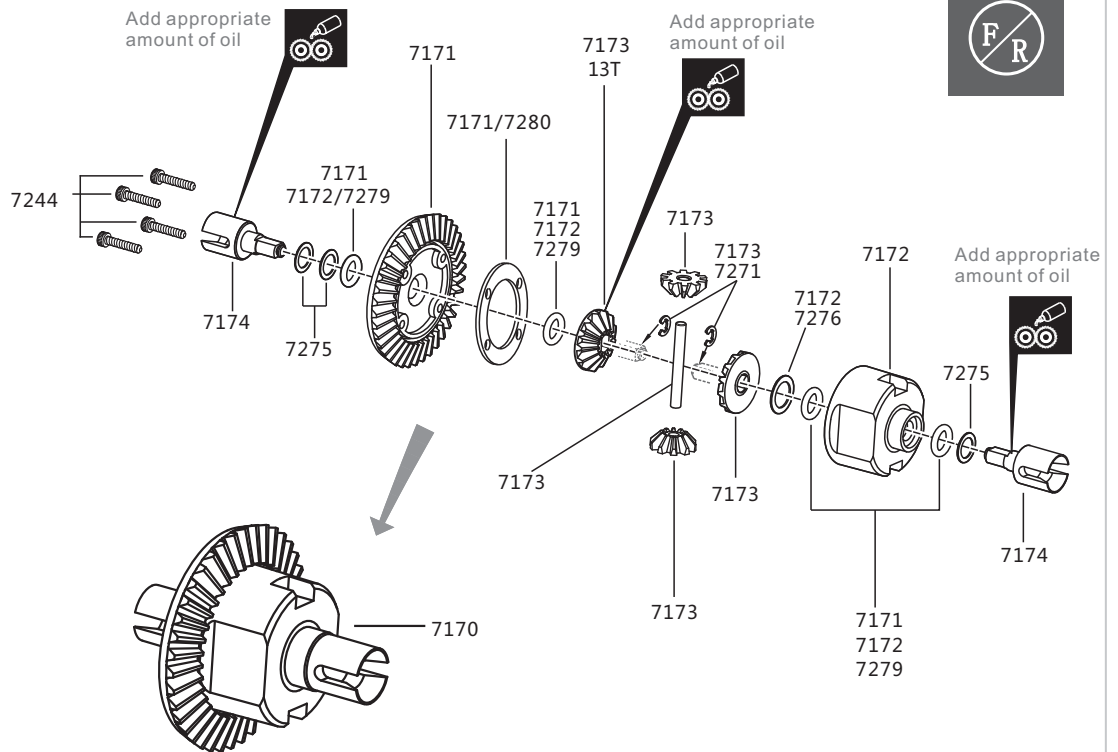
 x2
7271
Ball bearing φ15x10x4

 x2
7270
Ball bearing φ10x5x4

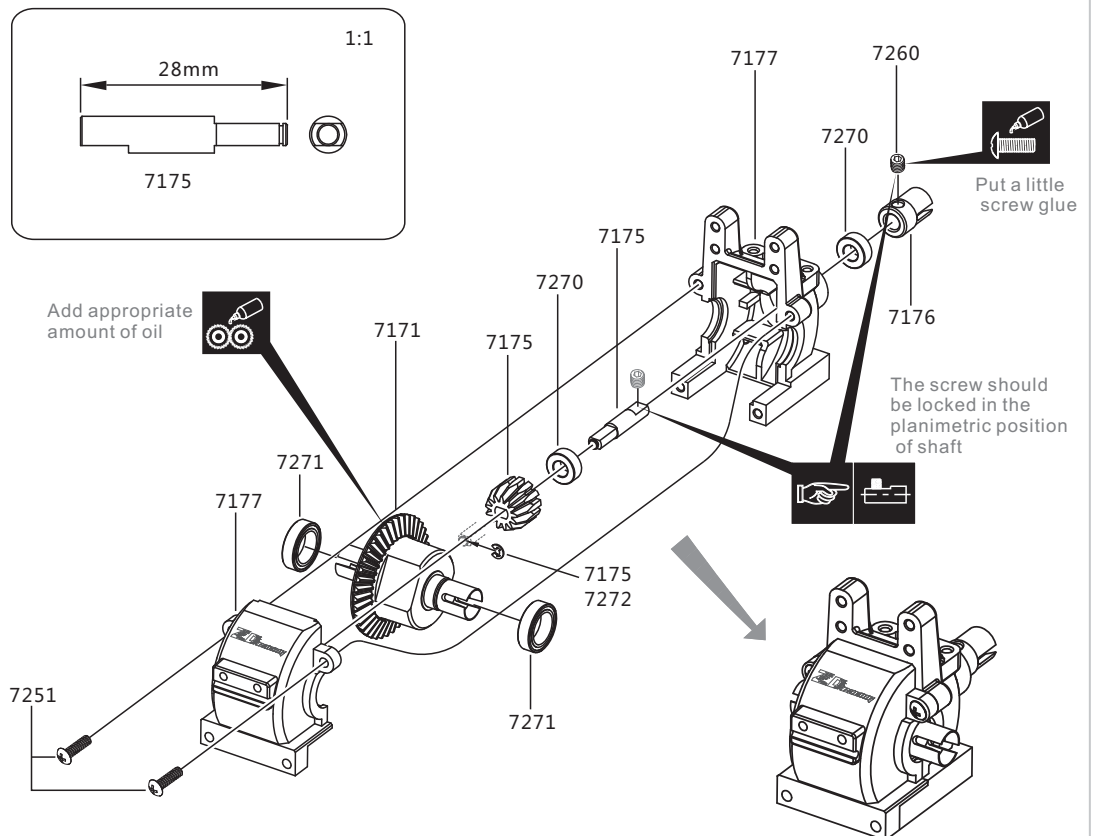
 x1
7260
Set Screw M4x4

 x1
7272
E button φ2.5x0.4

1. DIFFERENTIAL ASSEMBLY



2. FRONT GEAR BOX ASSEMBLY

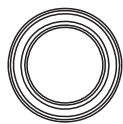


1:1 Scale



x2

7251
M3X10 Pan Self-tapping Screw Set



x2

7271
Ball bearing $\phi 15 \times 10 \times 4$



x2

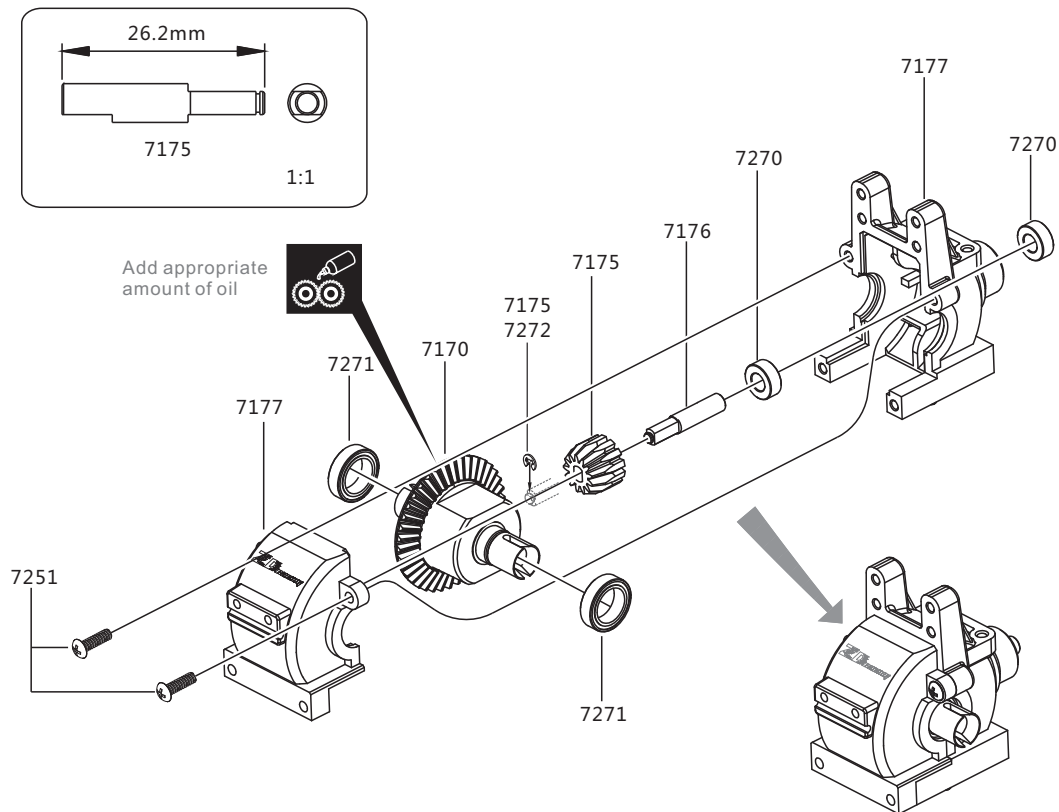
7270
Ball bearing $\phi 10 \times 5 \times 4$



x1

7272
E button $\phi 2.5 \times 0.4$

3. REAR GEAR BOX ASSEMBLY

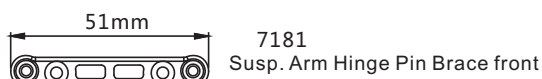
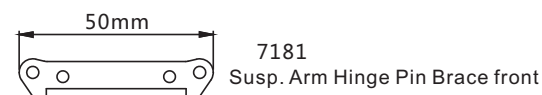
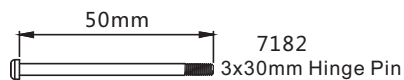
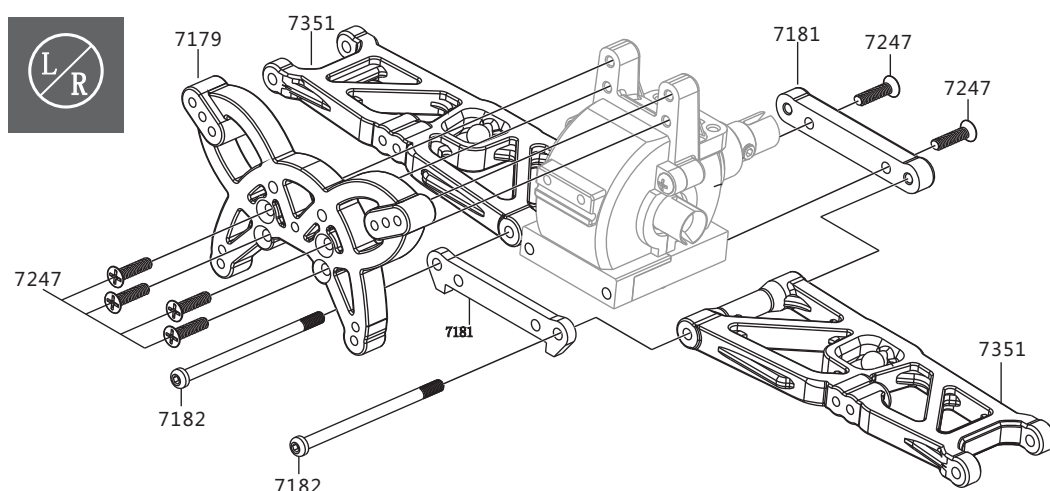


4. FRONT LOWER SUSPENSION ARM ASSEMBLY

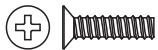


x6

7247
M3X12 Flat Head Self-tapping Screw Set



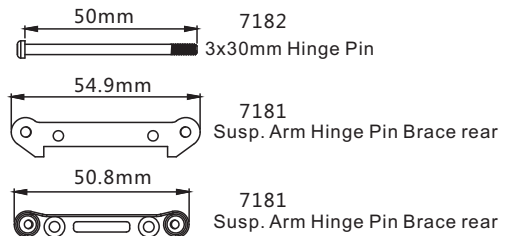
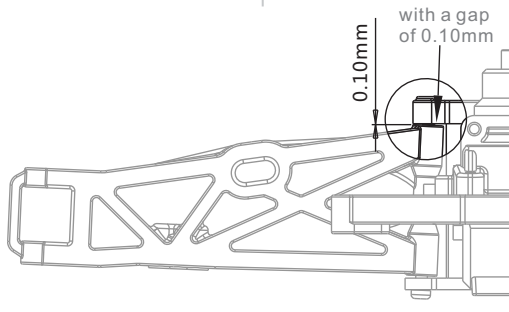
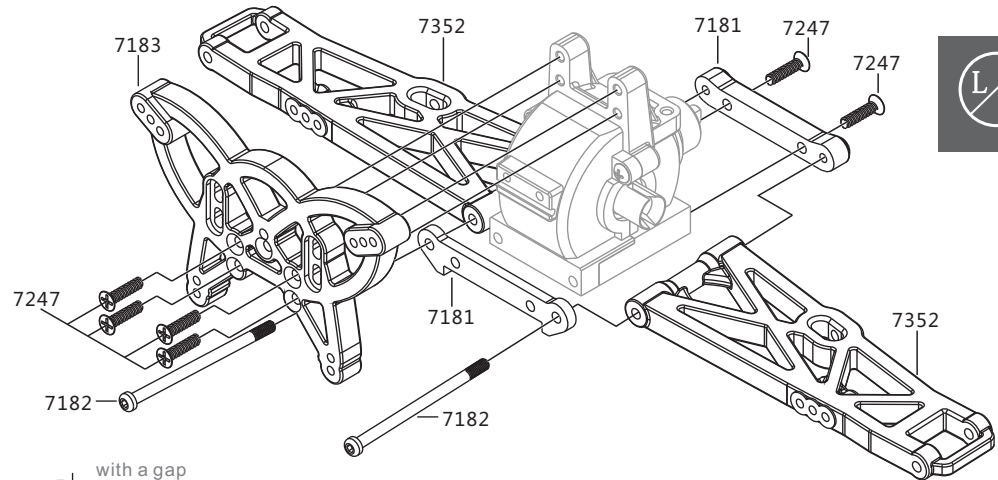
1:1 Scale



x6

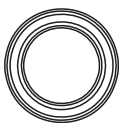
7247
M3X12 Flat Head Self-tapping
Screw Set

5. REAR LOWER SUSPENSION ARM ASSEMBLY



x4

7263
M3x4.1 Screw rod



x2

7271
Ball bearing $\phi 15 \times 10 \times 4$



x2

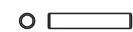
7270
Ball bearing $\phi 10 \times 5 \times 4$



x2

7265
Steering Ball Screws $\phi 4.7$ -M3

6. STEERING ARMS ASSEMBLY



x2

7268
 $\phi 2 \times 11$ Pin Set



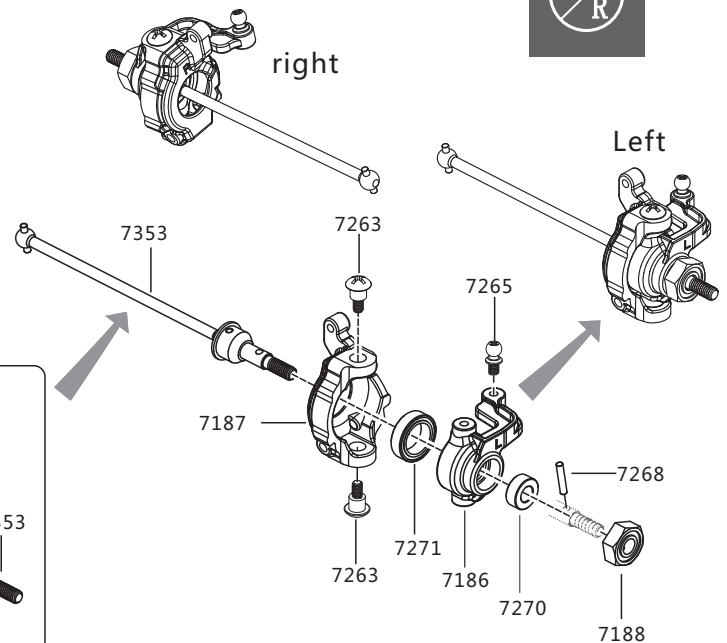
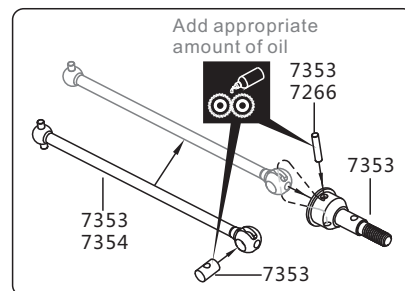
x2

7267
 $\phi 2 \times 10$ Pin Set



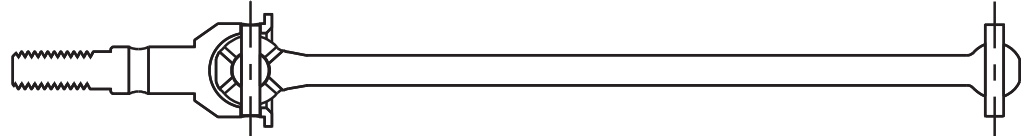
x2

7266
 $\phi 2 \times 9.7$ Pin Set



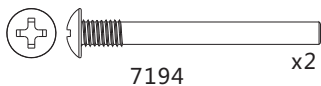
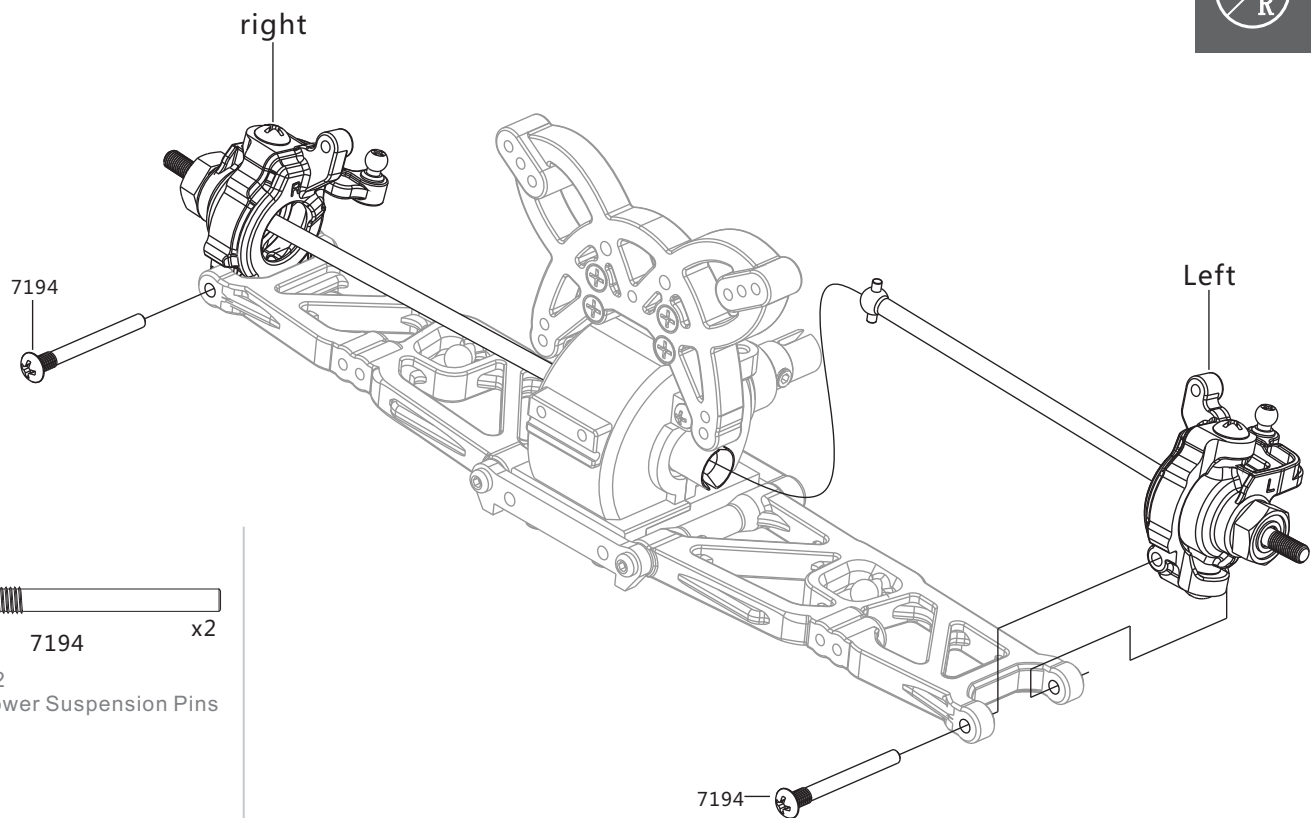
1:1

98.50mm

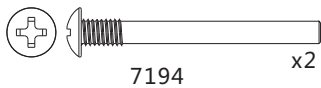


1:1 Scale

7. STEERING ARMS ASSEMBLY

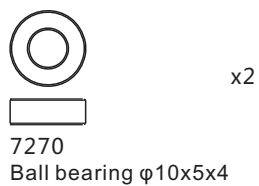
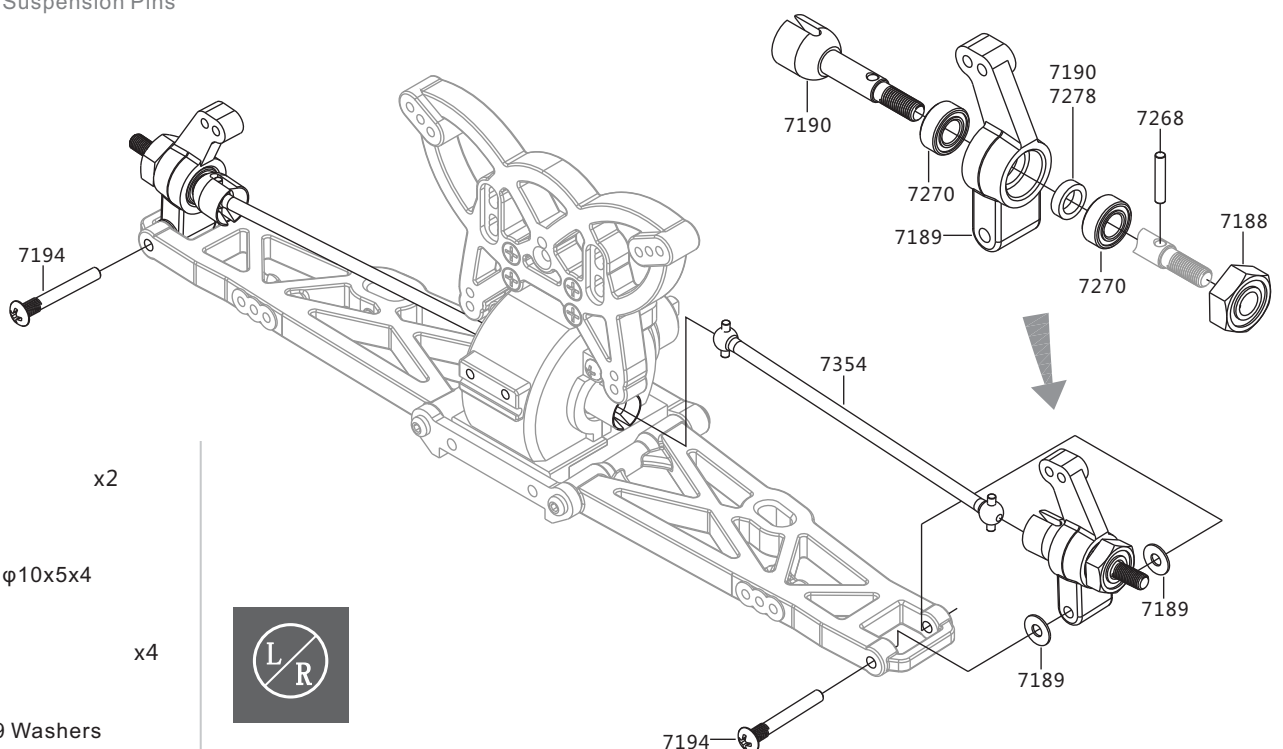


M3.5x32
Front Lower Suspension Pins

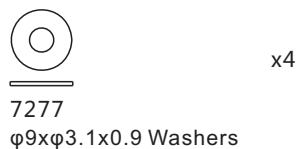


M3.5x32
Front Lower Suspension Pins

8. REAR SEAT ASSEMBLY



7270
Ball bearing $\phi 10 \times 5 \times 4$



7277
 $\phi 9 \times \phi 3.1 \times 0.9$ Washers

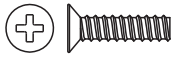


1:1 Scale



x4

7264
M3x4.8 Screw rod



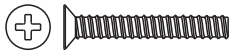
x2

7247
M3X12 Flat Head Self-tapping
Screw Set



x2

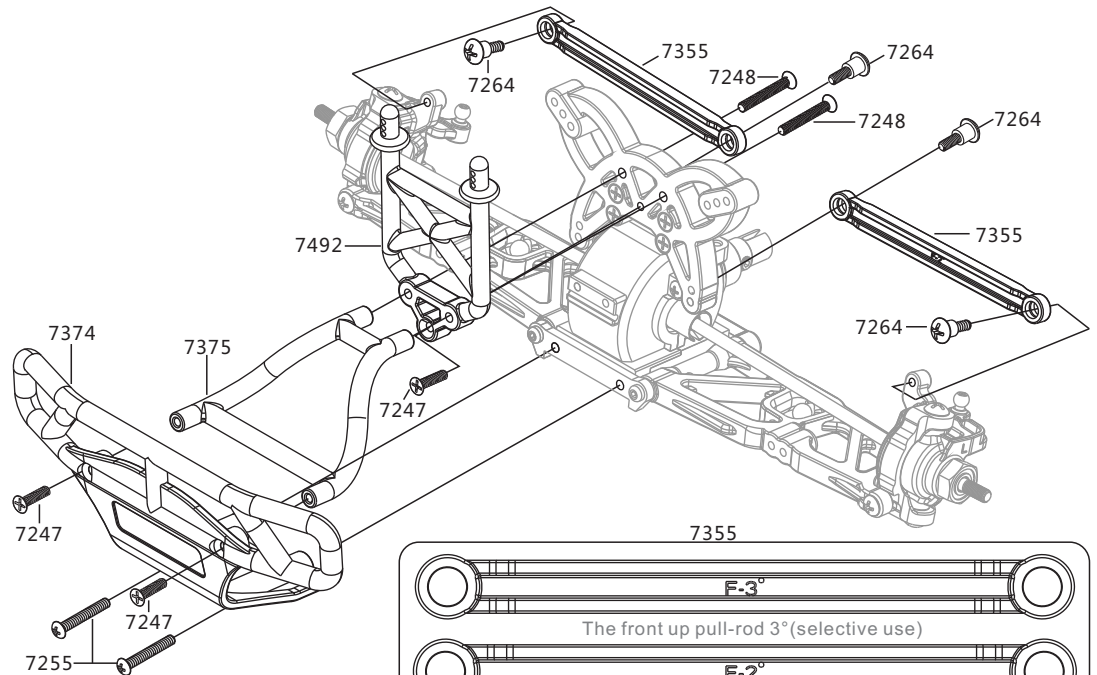
7255
M3X20 Pan Self-tapping Screw Set



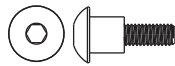
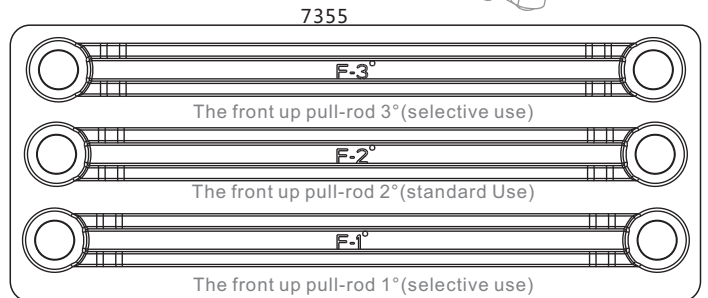
x2

7248
M3X20 Flat Head Self-tapping
Screw Set

9.FRONT BUMPER ASSEMBLY

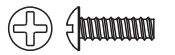


The camber of tire can be changed when you adjust the length of the pull rods
Different driving feeling appears with different pull-rod length
You can choose appropriate pull rods based on the field



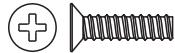
x4

7264
M3x4.8 Screw rod



x2

7251
M3X10 Pan Self-tapping Screw Set



x2

7247
M3X12 Flat Head Self-tapping
Screw Set



x2

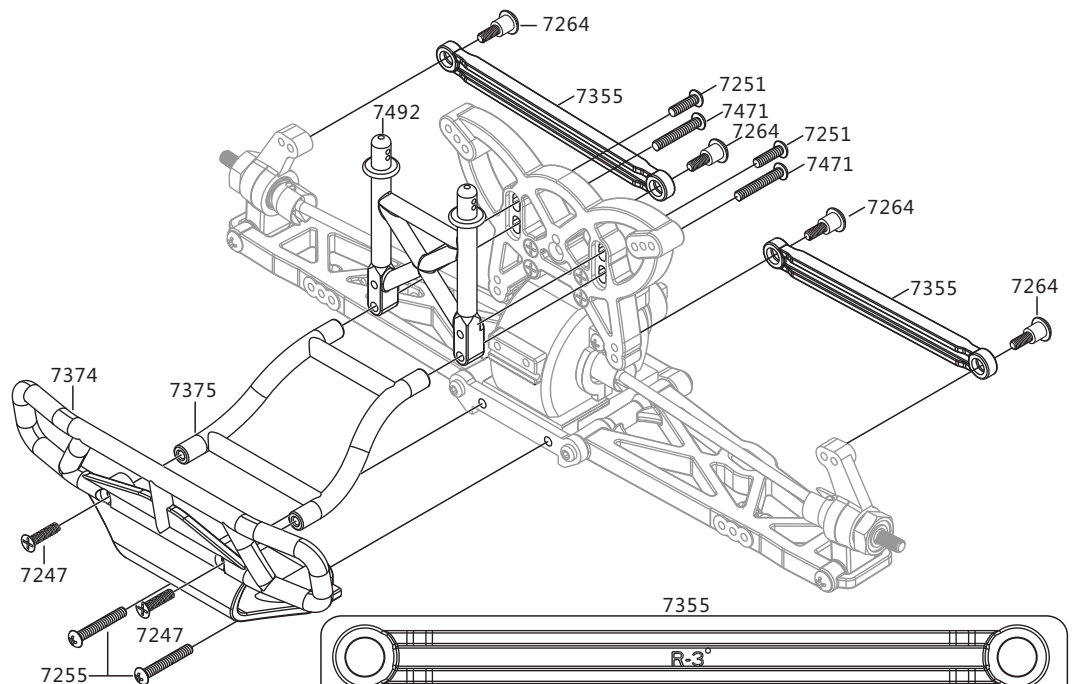
7471
M3X18 Pan Self-tapping Screw Set



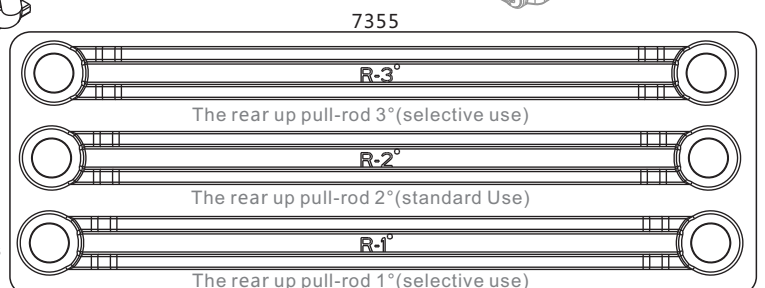
x2

7471
M3X20 Pan Self-tapping Screw Set

10.REAR BUMPER ASSEMBLY



The camber of tire can be changed when you adjust the length of the pull rods
Different driving feeling appears with different pull-rod length
You can choose appropriate pull rods based on the field



Federal Communications Commission (FCC) 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.

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.

Warning: Changes or modifications made to this device not expressly approved by Dongguan ZD Hobby Co.,Ltd may void the FCC authorization to operate this device.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.