

Grid

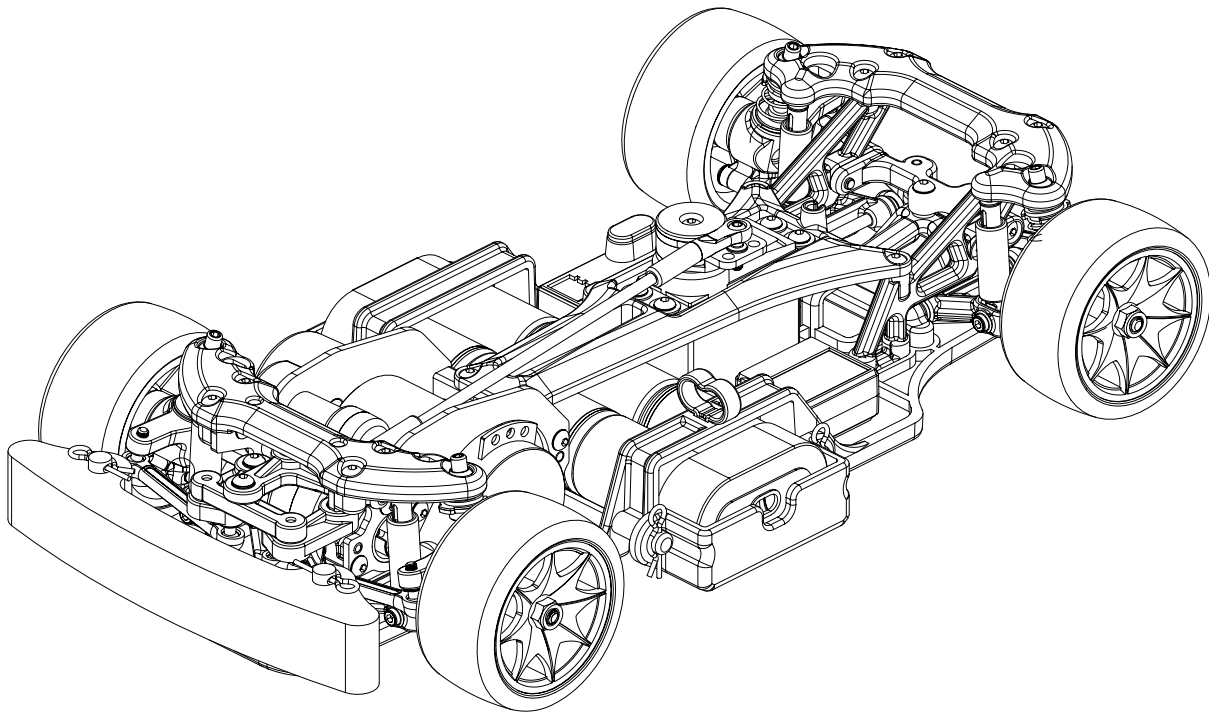
NEW STYLE STRUT SUSPENSION

ABC HOBBY ORIGINAL RADIO CONTROL CAR

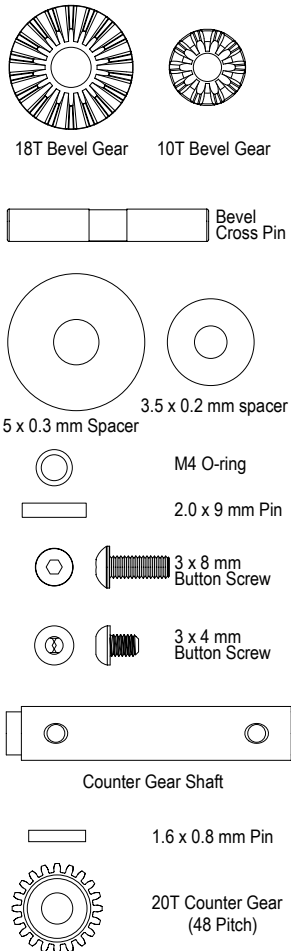


Instruction Manual

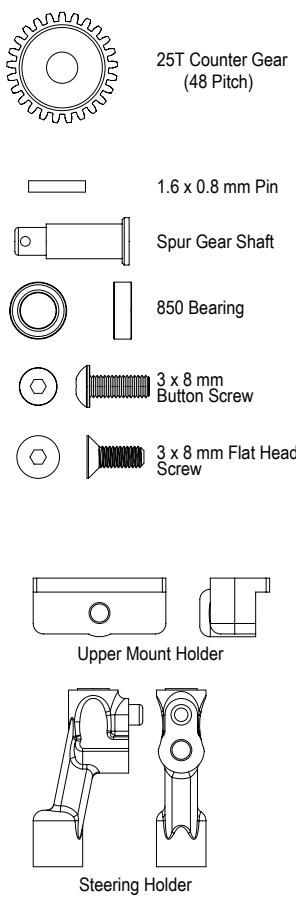
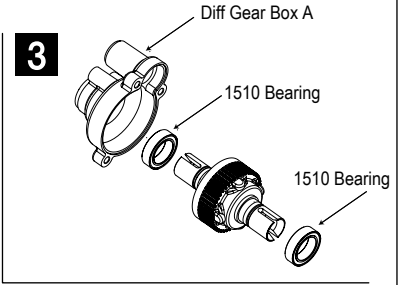
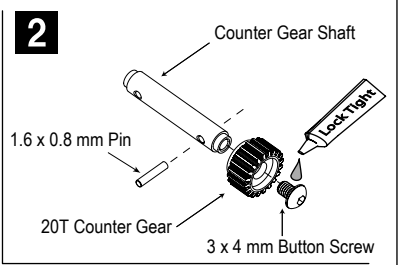
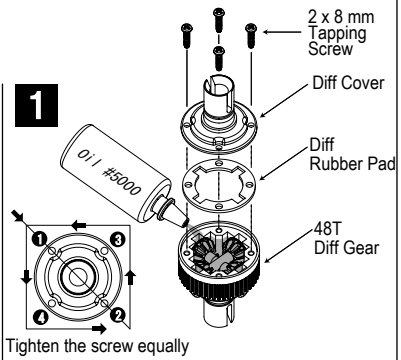
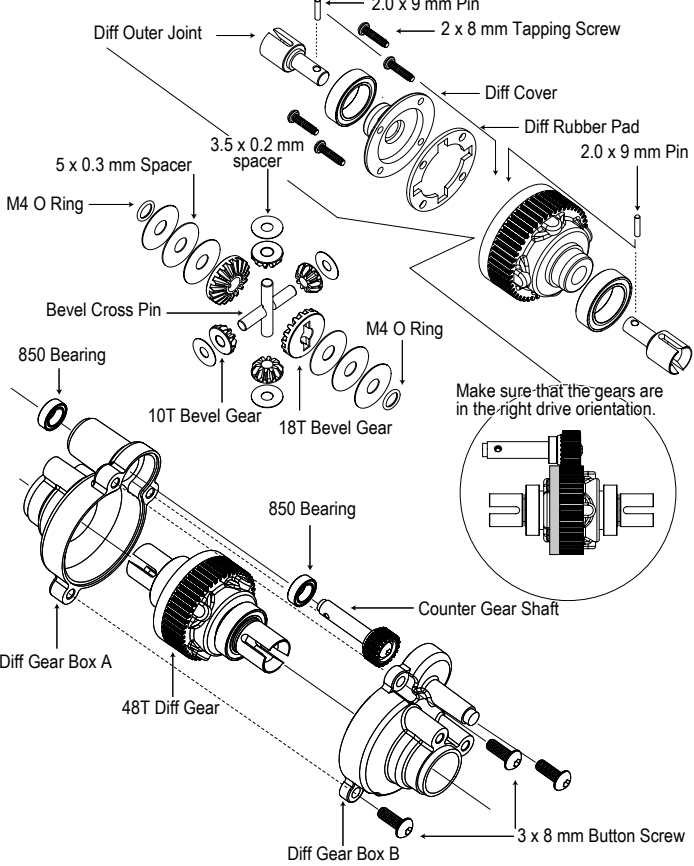
Study the instructions thoroughly
before assembly.



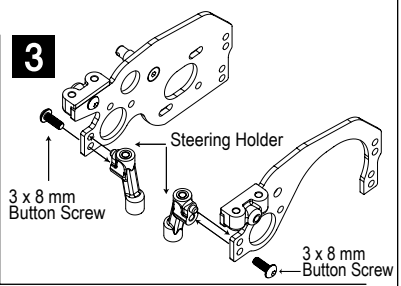
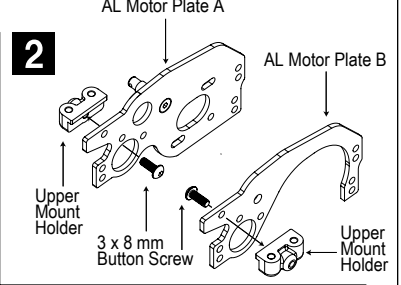
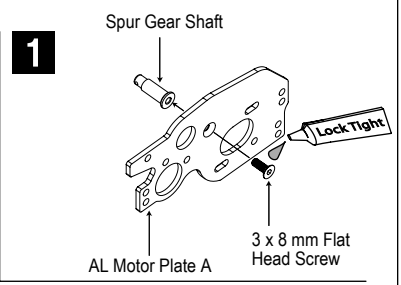
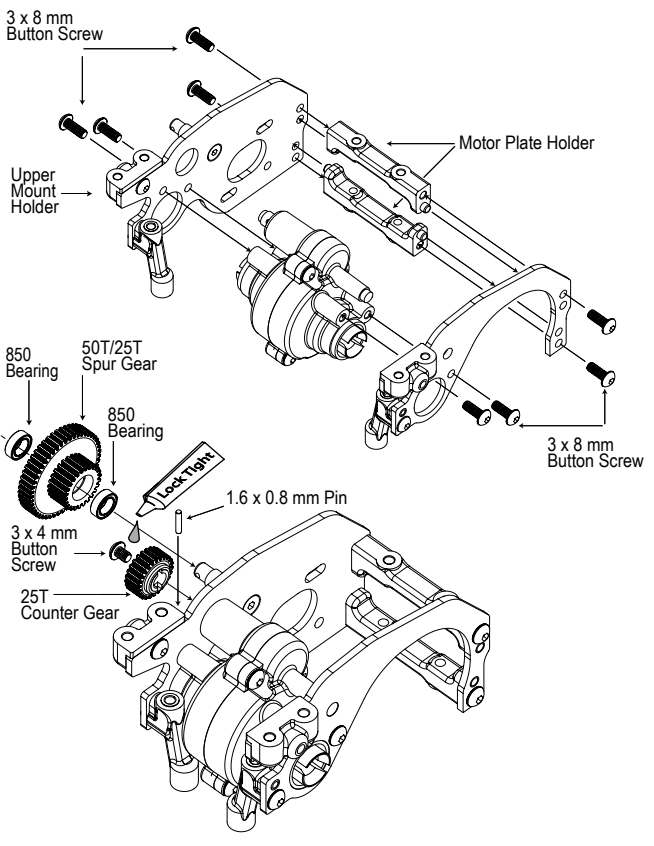
- **FRONT WHEEL DRIVE**
- **NEW STYLE STRUT SUSPENSION**
- **BATHTUB CHASSIS**
- **4 BEVEL GEAR DIFFERENTIAL**
- **FULL ADJUSTABLE SUSPENSION**
- **UNIVERSAL JOINT**
- **WHEEL BASE: 210mm**
- **BODY WIDTH: 157mm-163mm**

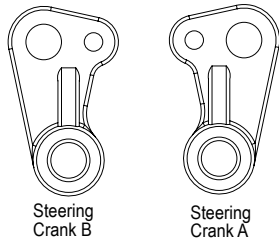
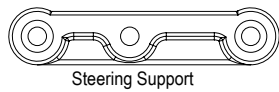


1 GEAR BOX



2 MOTOR MOUNT

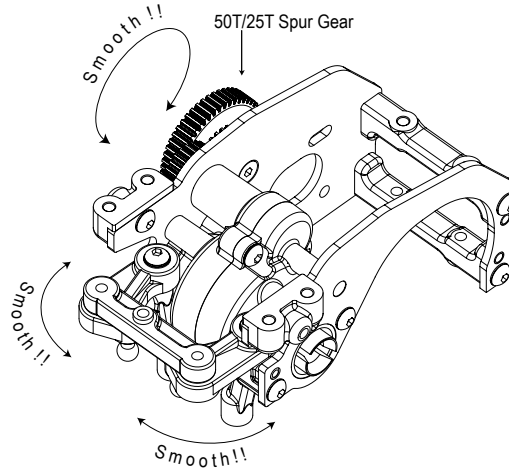




Gear Ratio 48 Pitch

	25T/25T	20T/30T
21	5.714	8.571
22	5.454	8.181
23	5.217	7.826
24	5.000	7.500
25	4.800	7.200
26	4.615	6.923
27	4.444	6.666
28	4.285	6.428
29	4.137	6.206
30	4.000	6.000
31	3.870	5.806

3 STEERING UNIT

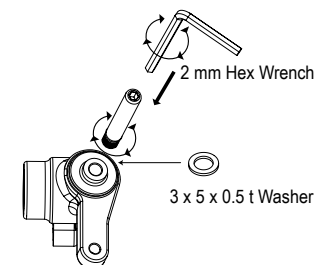
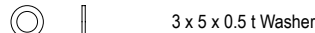
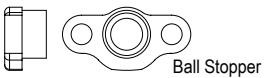
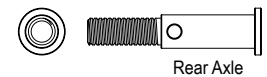
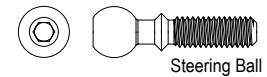
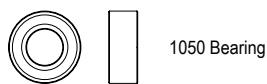
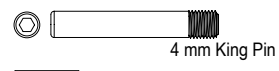
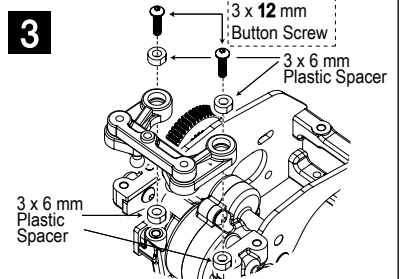
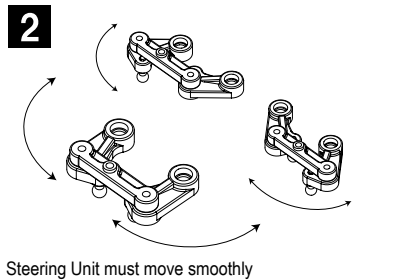
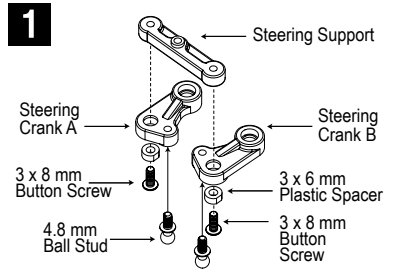
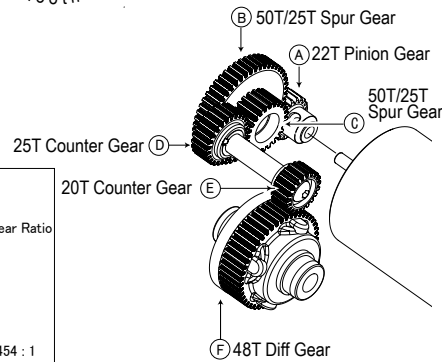


Steering components should be free of bind.

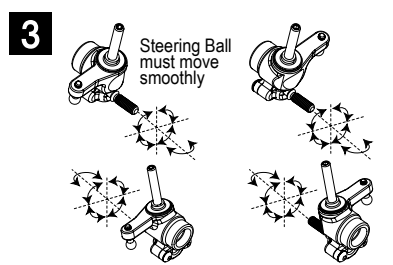
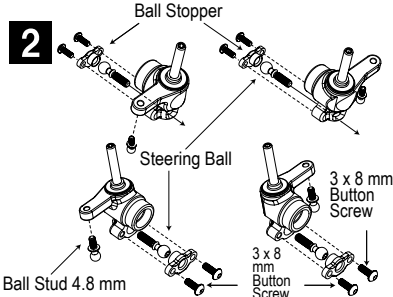
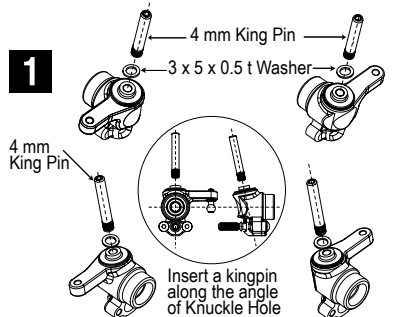
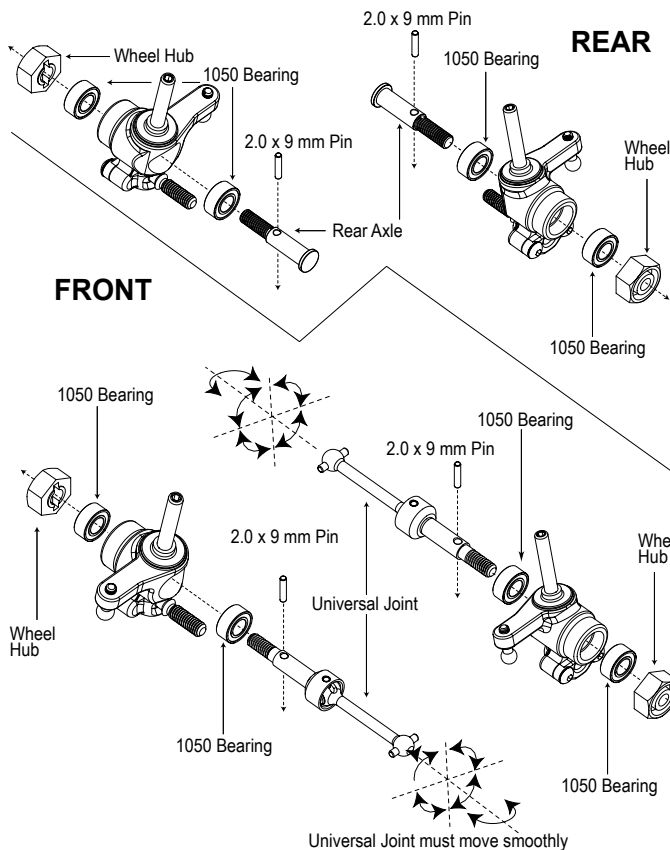
Calculation of Gear ratio

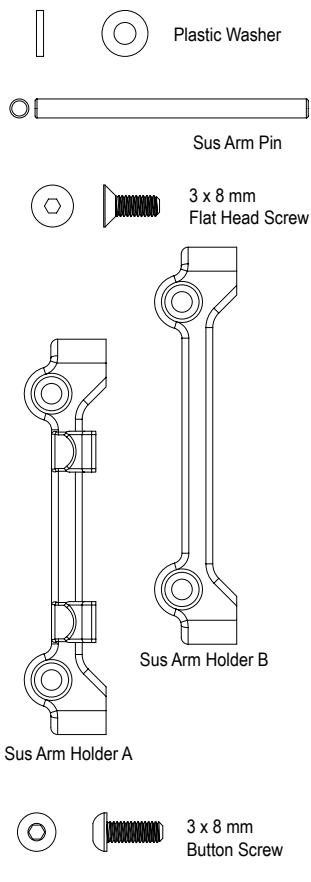
$$\frac{B}{A} \times \frac{D}{C} \times \frac{F}{E} = \text{Gear Ratio}$$

Kit Standard

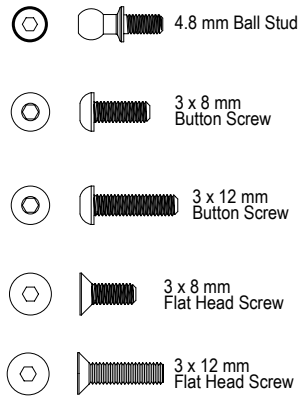
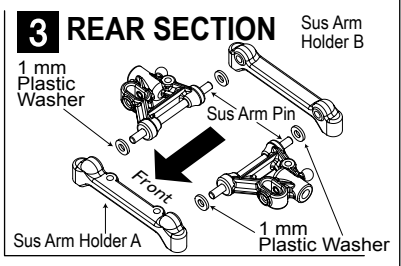
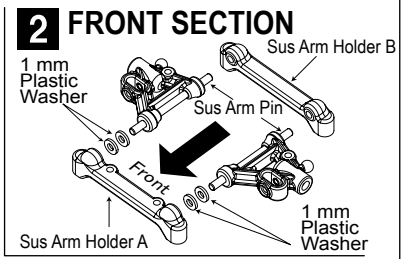
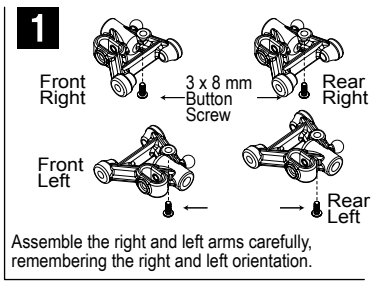
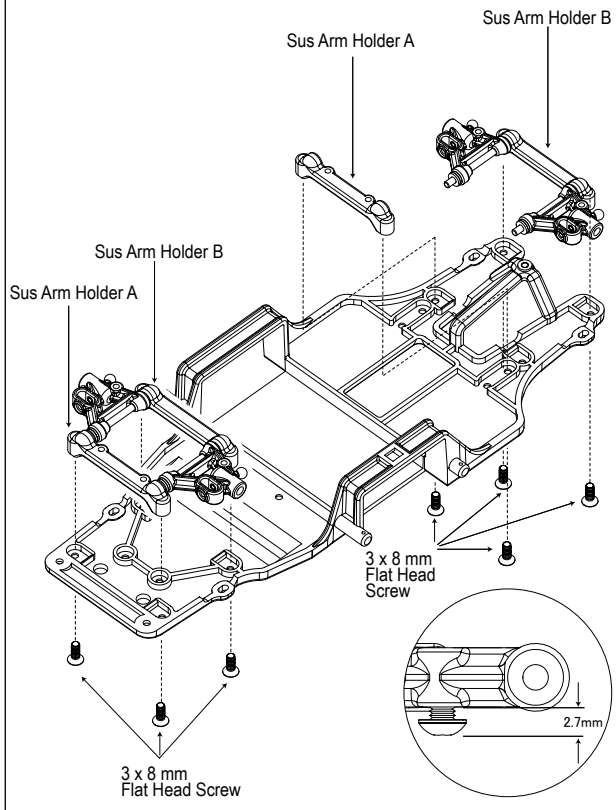
$$\frac{50T}{22T} \times \frac{25T}{25T} \times \frac{48T}{20T} = 5.454 : 1$$


4 HUB CARRIER

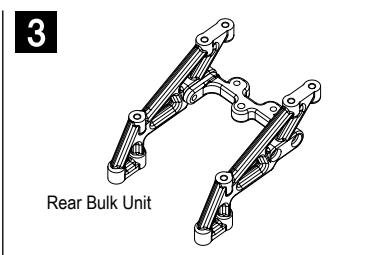
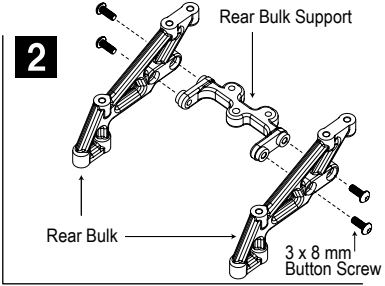
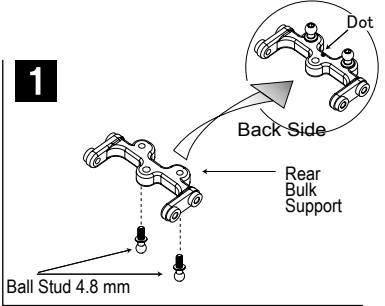
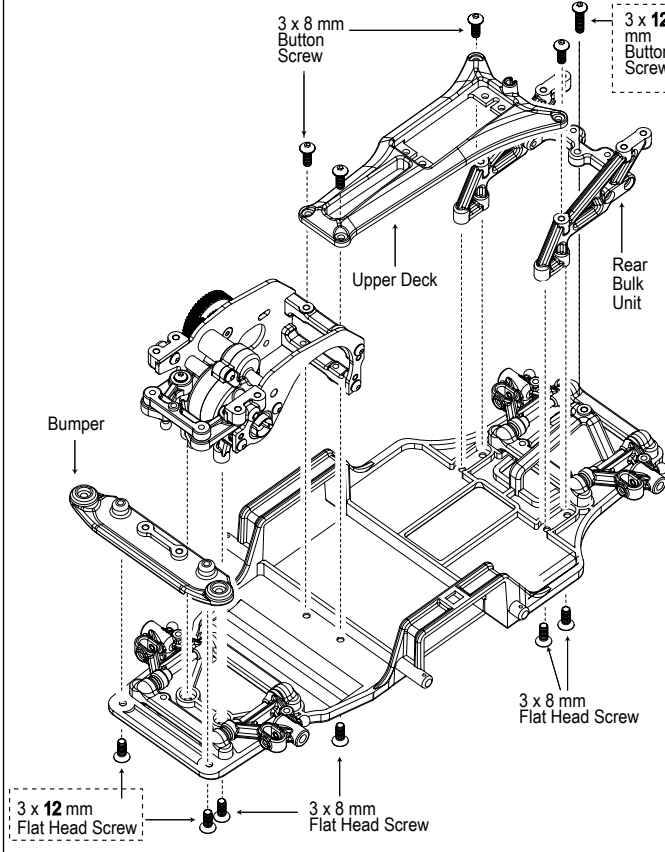








5 SUSPENSION ARM

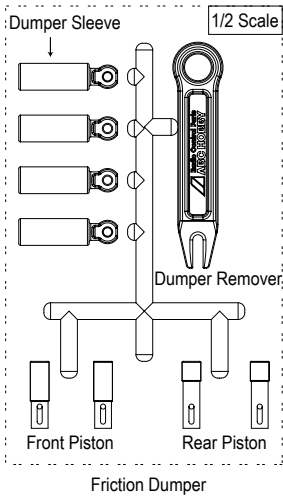
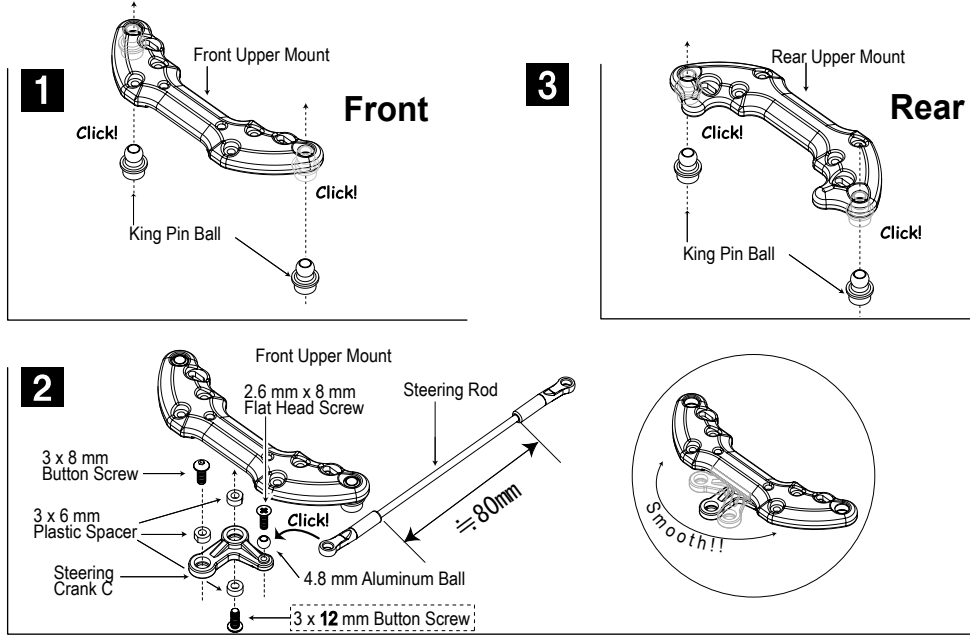


6 UPPER DECK

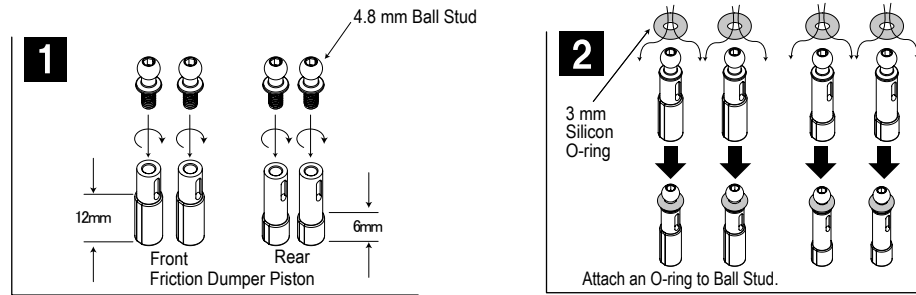





7 UPPER MOUNT

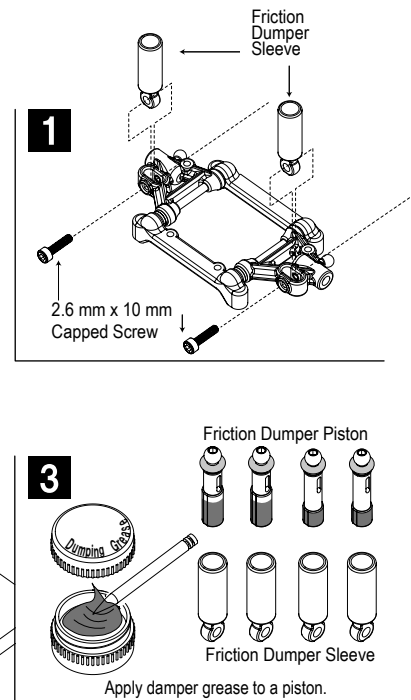
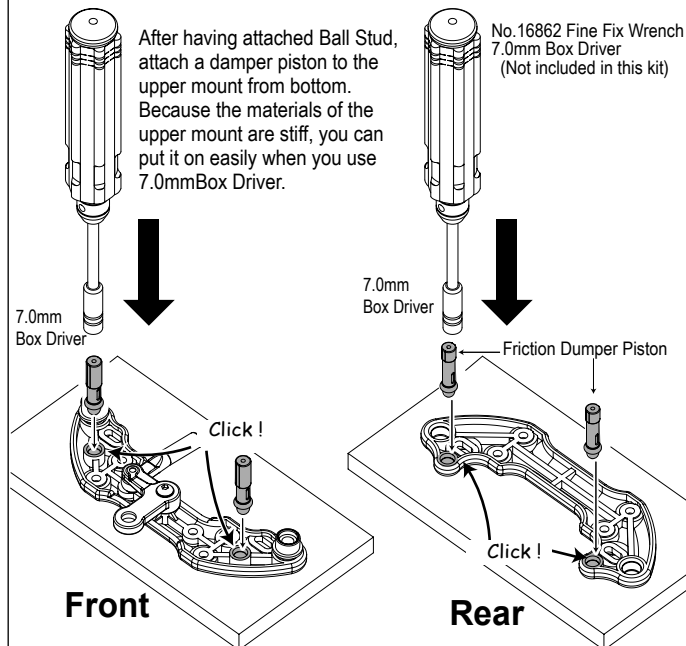
-  3 x 8 mm Button Screw
-  3 x 12 mm Button Screw
-  2.6 mm x 8 mm Flat Head Screw
-  4.8 mm Aluminum Ball




8 FRICTION DUMPER

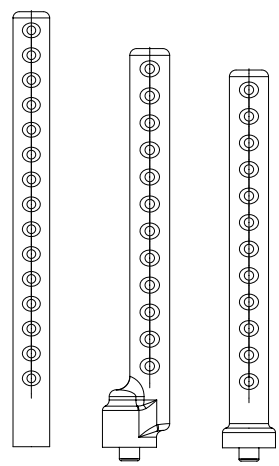


-  4.8 mm Ball Stud
-  3 mm Silicon O-ring
-  7.0mm Box Driver



9 BODY MOUNT

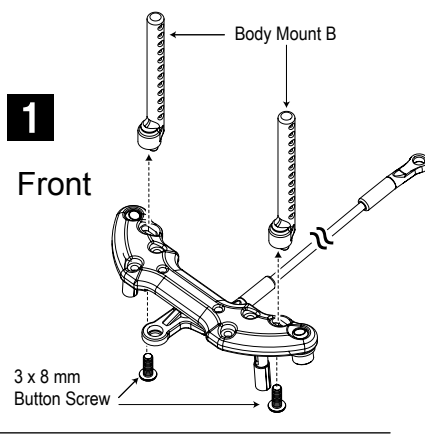
 3 x 8 mm Button Screw



  
 Body Mount A Body Mount B Body Mount C

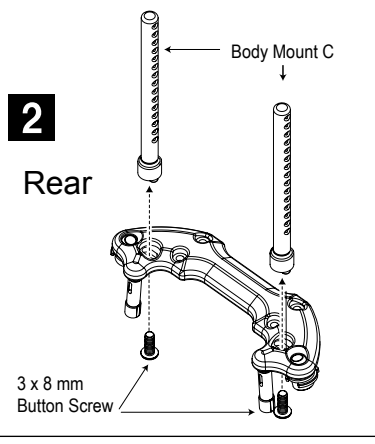
1

Front



2

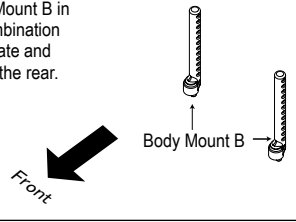
Rear



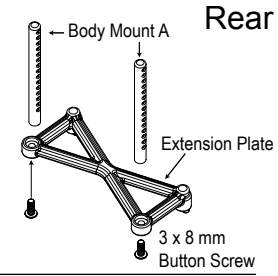
3

When you use TAMIYA body, use Body Mount B in the Front, in combination with extension plate and Body Mount A in the rear.

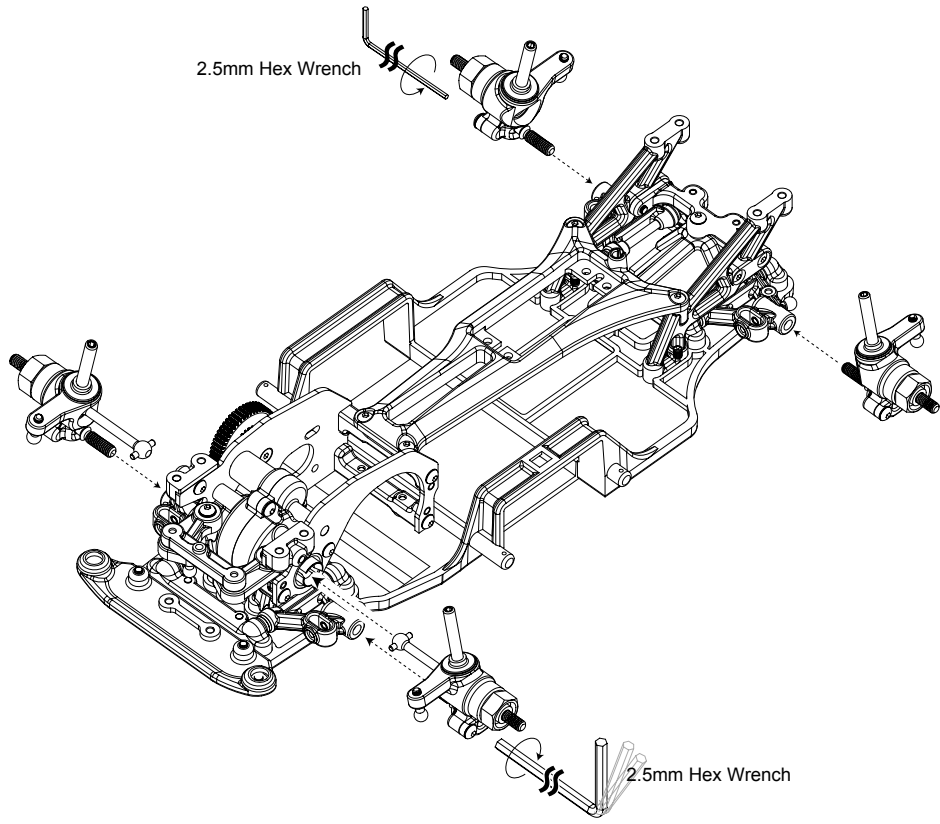
Front



Rear

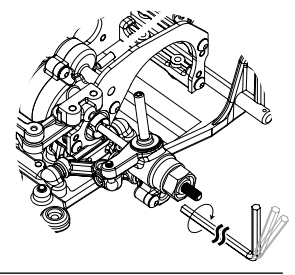


10 HUB CARRIER INSTALLATION



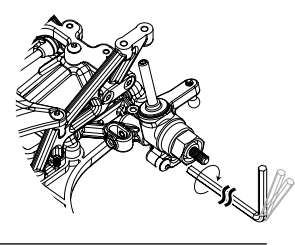
1

Front



2

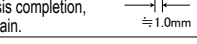
Rear



3

Front

After chassis completion, adjust it again.



Rear



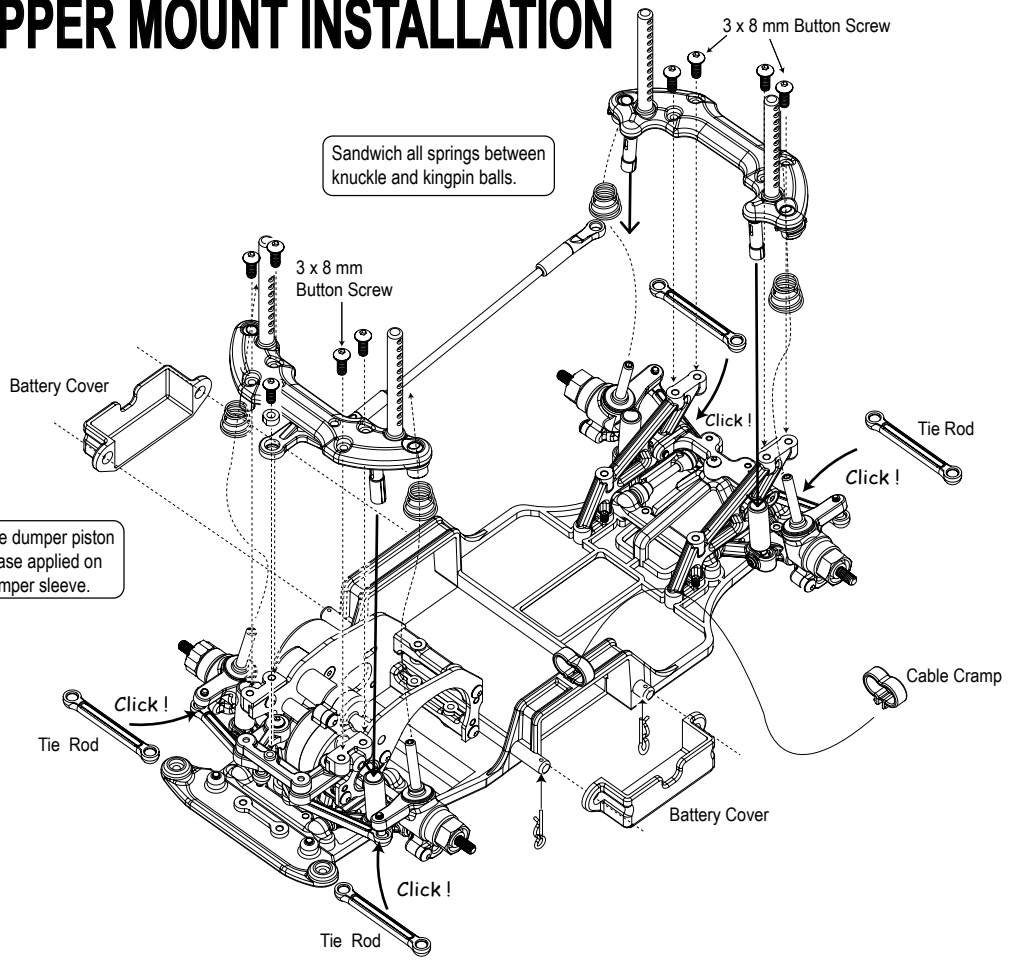
11 UPPER MOUNT INSTALLATION



3 x 8 mm Button Screw

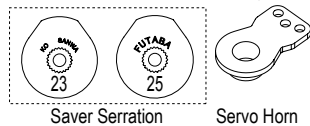
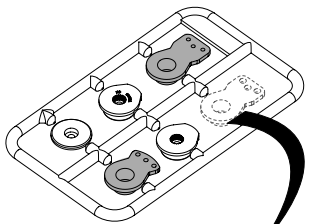
Sandwich all springs between knuckle and kingpin balls.

Insert the dumper piston with grease applied on each dumper sleeve.

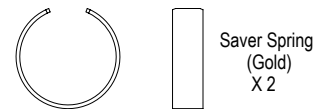


12 RADIO SYSTEM

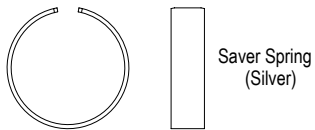
All electronics stuffs are not included in this kit.



Saver Serration Servo Horn



Saver Spring (Gold) X 2



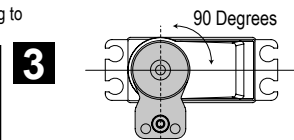
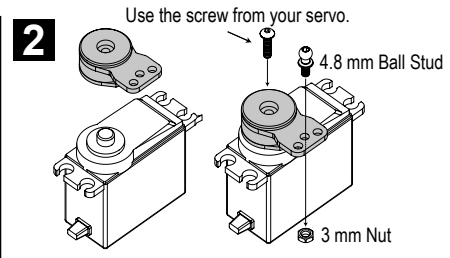
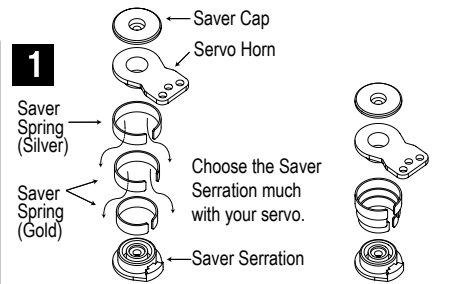
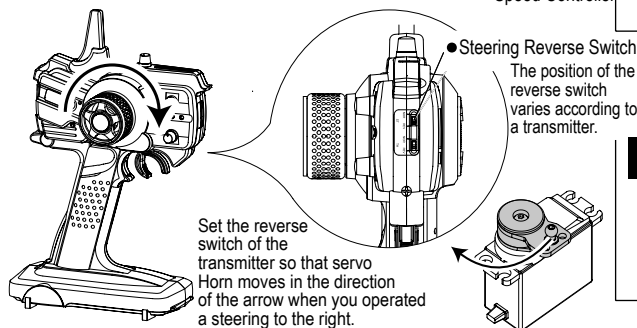
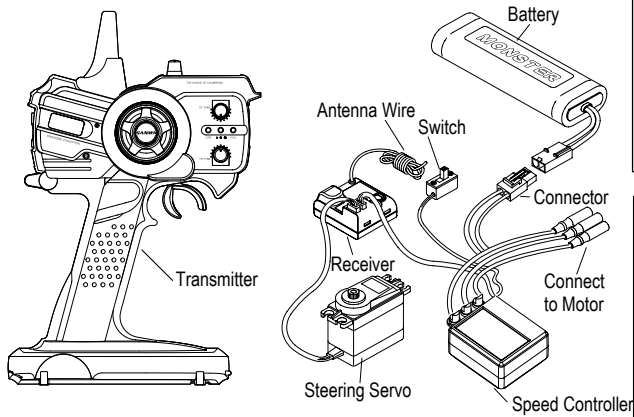
Saver Spring (Silver)



4.8 mm Ball Stud

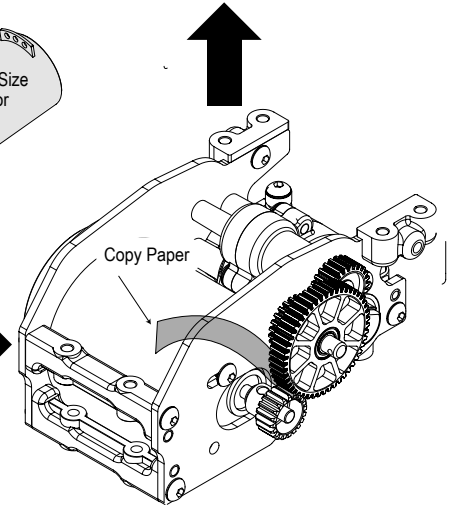
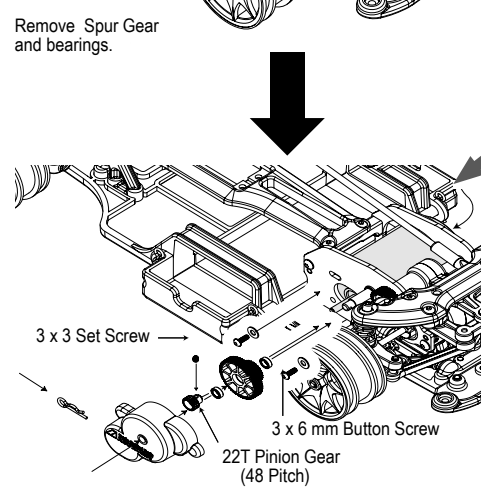
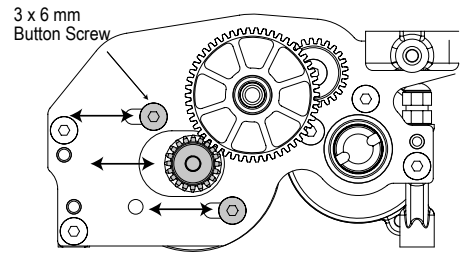
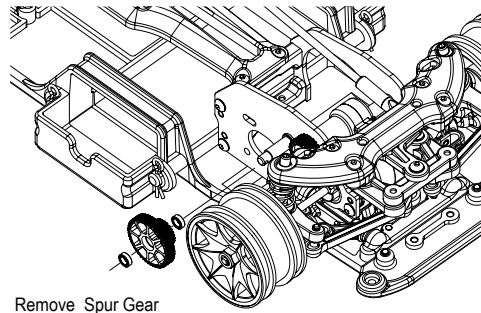
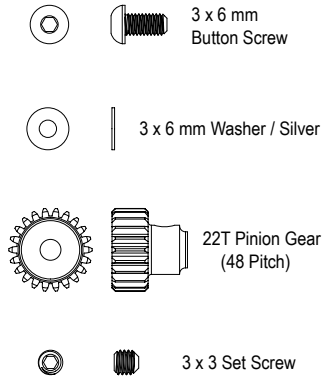


3 mm Nut



**When the power is ON, the servo horn should be in the neutral position as shown in the picture.

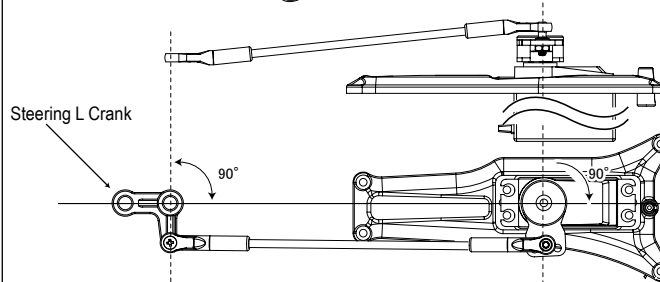
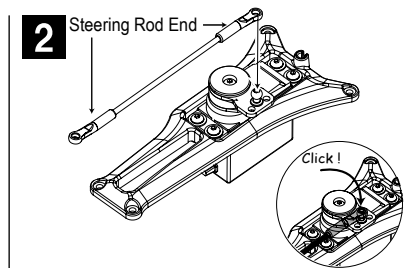
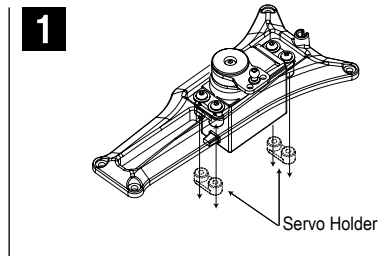
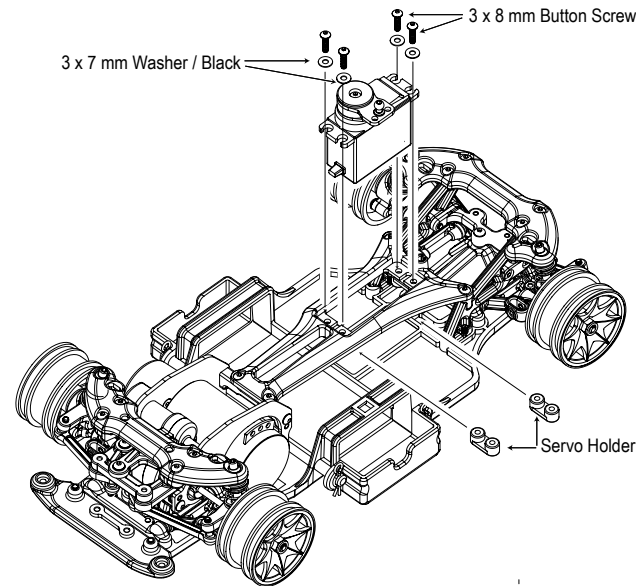
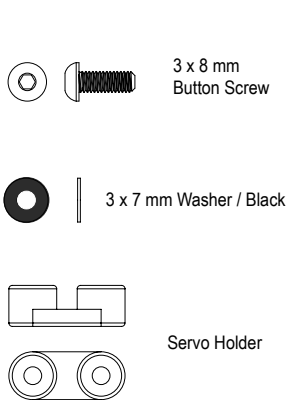
13 MOTOR INSTALLATION



Attach a motor with 3X6mm Button Screw. Attach a counter gear, after put on a pinion gear. After then, attach gear cover with body clip.

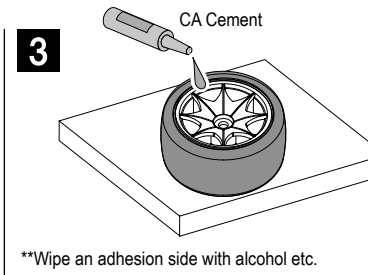
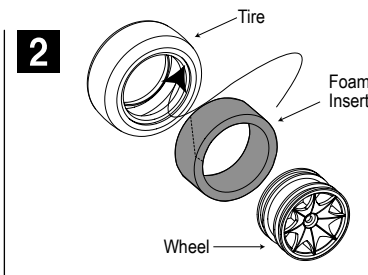
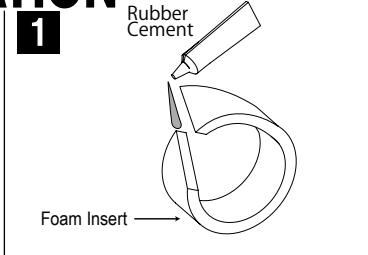
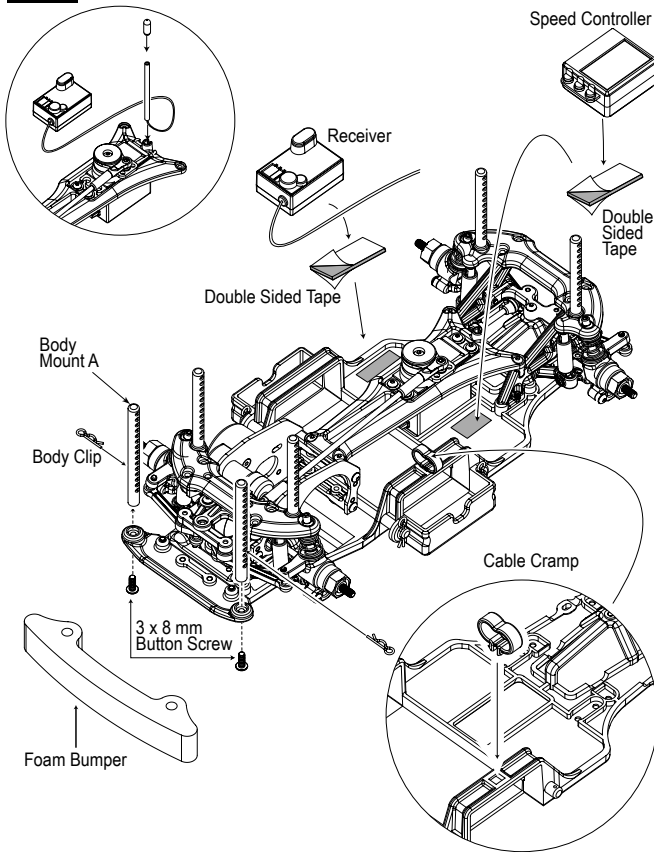
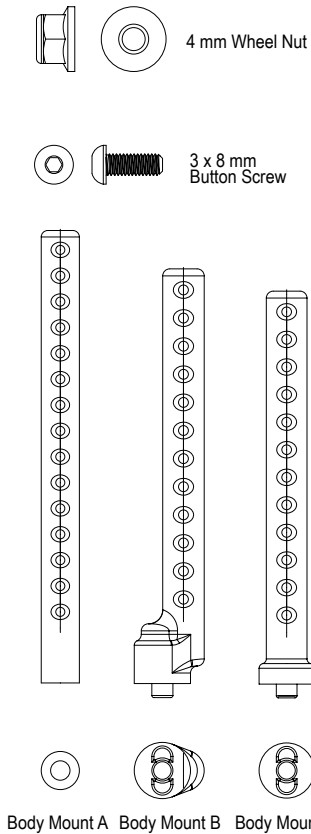
To get a perfect gear mesh, place a piece of paper between the gears and tighten the motor mount screws. Adjust motor position for smooth gear mesh.

14 STEERING LINKAGE

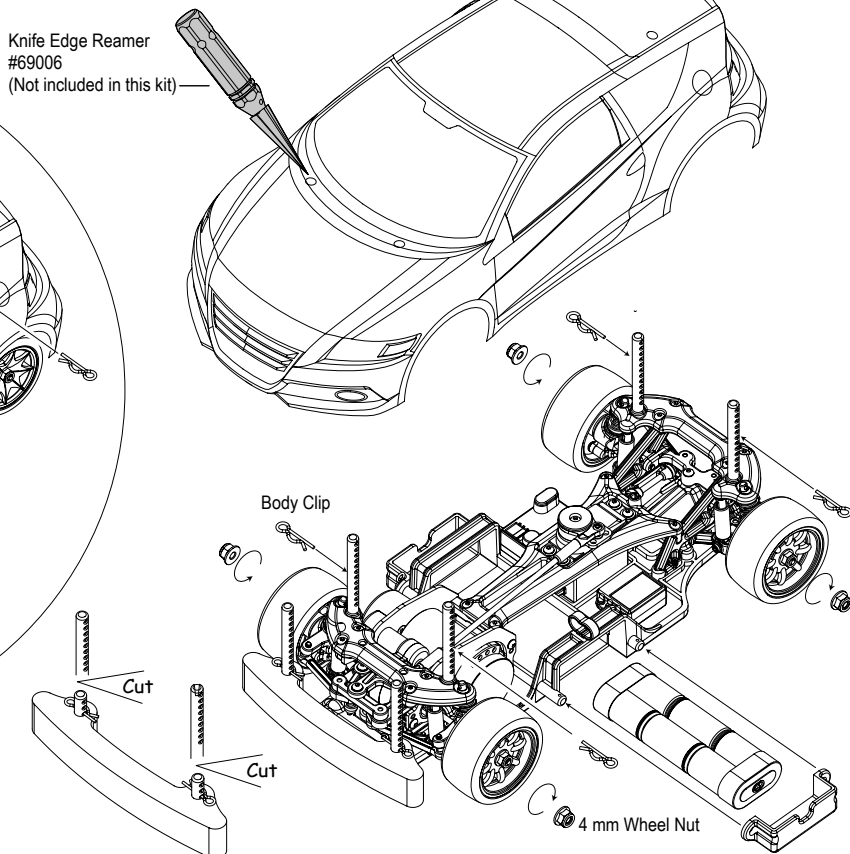
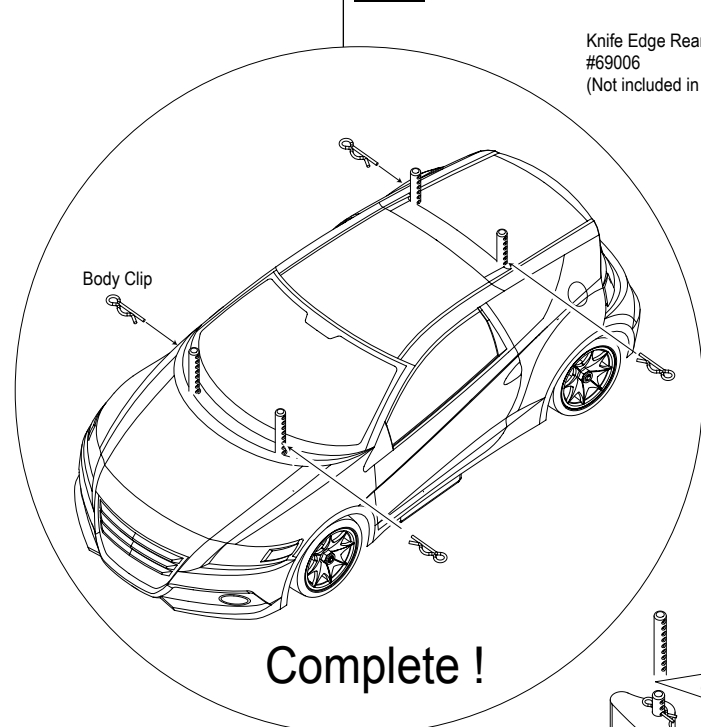


**When the power is ON, the servo horn should be in the neutral position as shown in the picture.

15 ELECTRONICS INSTALLATION



16 BODY INSTALLATION

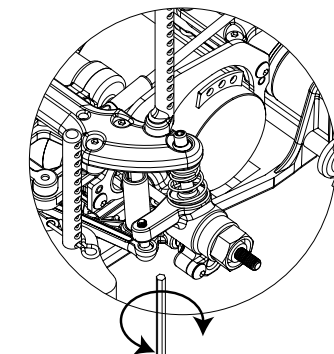
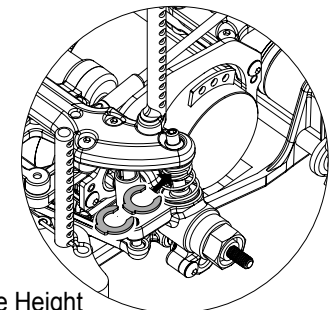
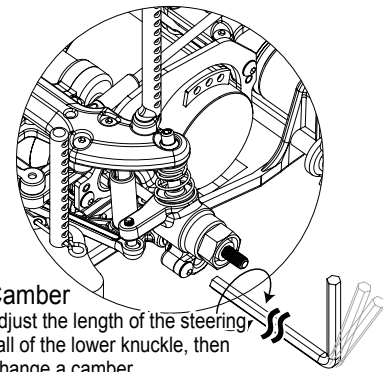
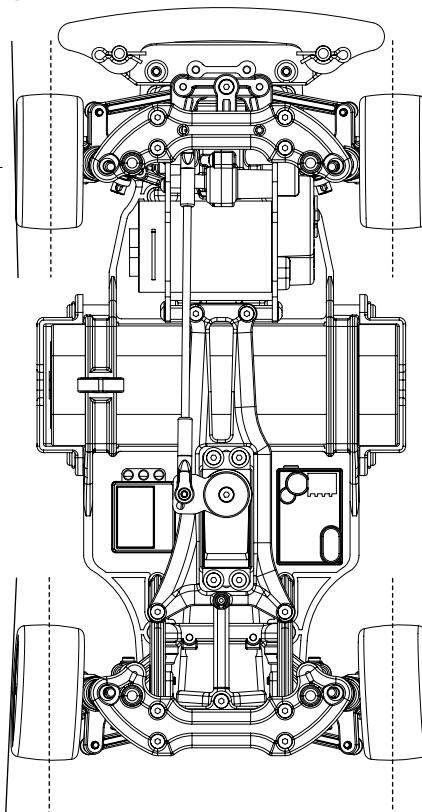
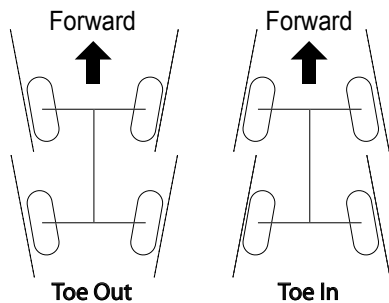


17 BASIC SETTING

Front Toe

Toe Out 1°

Toe In :
Movement at the steering operation becomes calm.
Toe Out :
Movement at the steering operation becomes quick.



Rear Toe

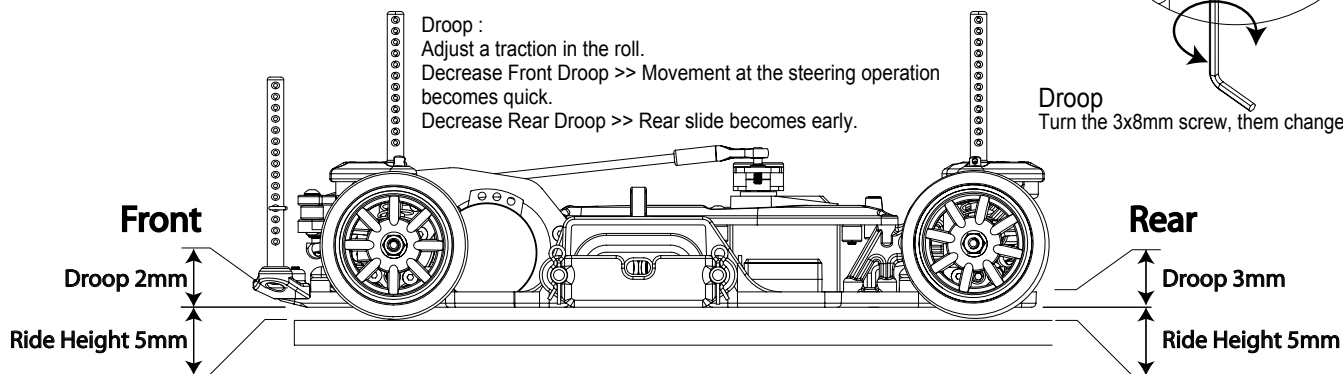
Toe In 1°

Toe In :
Increase >> Stability improves.
Decrease >> Rear slide becomes early.
Toe Out :
You must not make the rear toe-out.

Ride Height / Droop

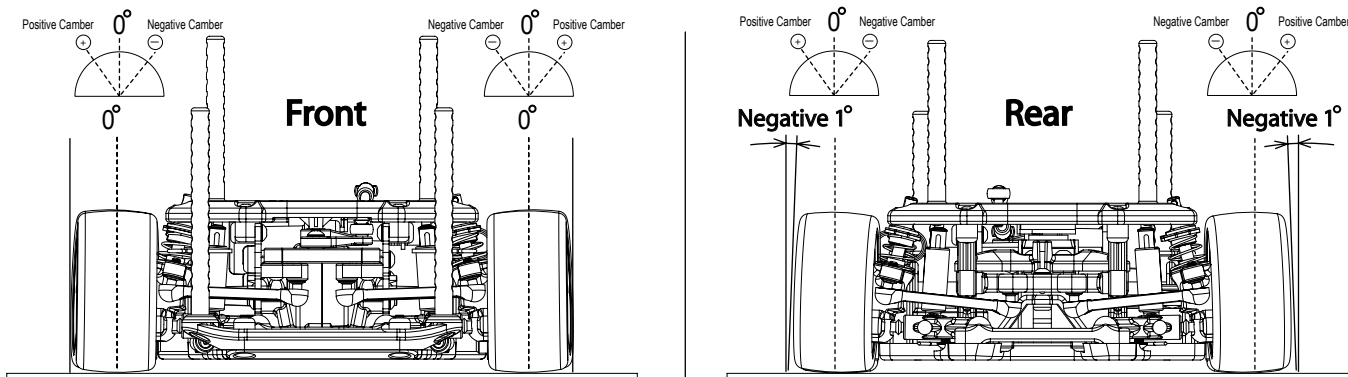
Ride Height :
A horizontal state is a neutral characteristic.
Nose Down >> Movement at the steering operation becomes quick.
Tail Down >> Rear slide becomes early.

Droop :
Adjust a traction in the roll.
Decrease Front Droop >> Movement at the steering operation becomes quick.
Decrease Rear Droop >> Rear slide becomes early.

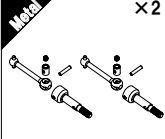
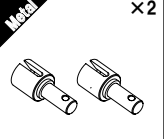


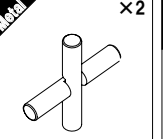
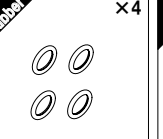
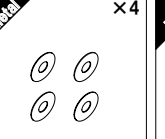
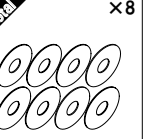
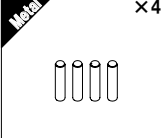
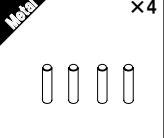
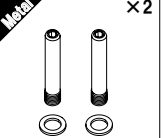

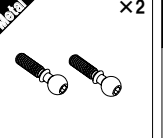
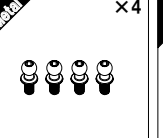
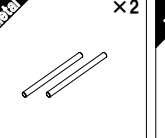
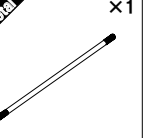

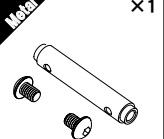
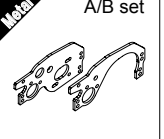

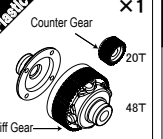
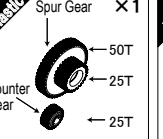
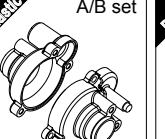
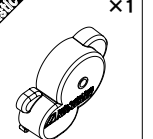
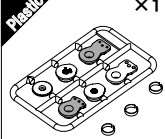


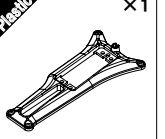
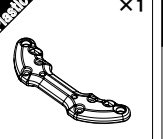
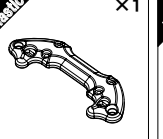
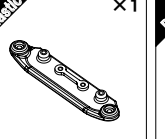
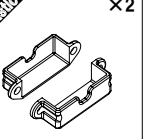
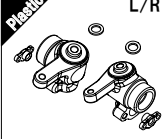
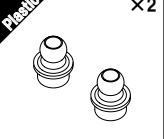
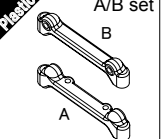
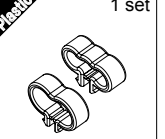
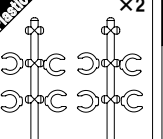
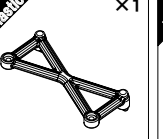
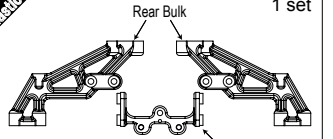
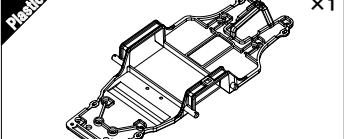
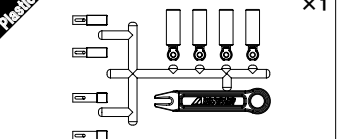
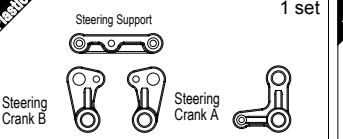
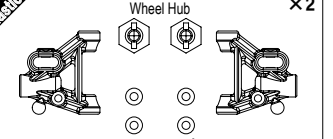
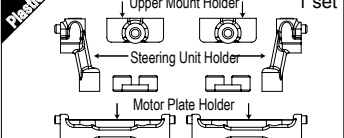
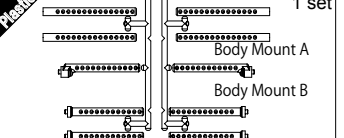
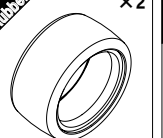
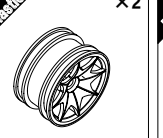
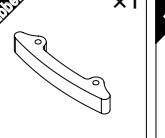
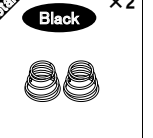

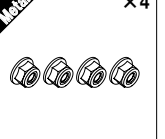
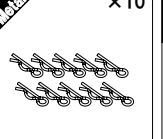
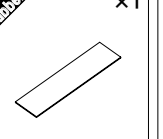
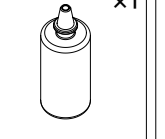
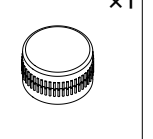

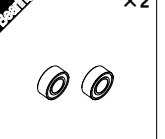



Camber

Camber : Adjust a traction in the roll.
Increase Negative Camber >> Traction feeling improves. (The excessive negative loses traction, and a tire is worn.)
Positive Camber >> Don't make this setting by On-road car.

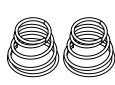

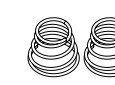
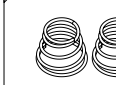

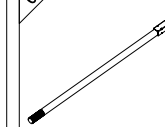
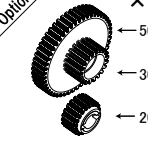
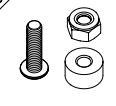
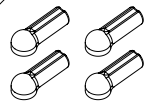
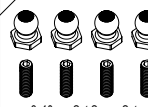
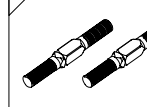
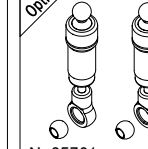
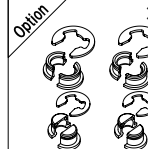
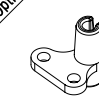
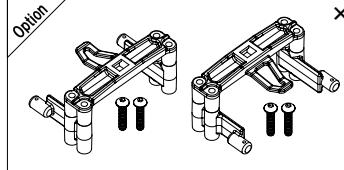
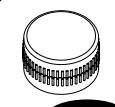
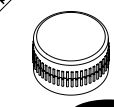

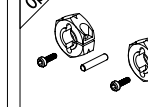
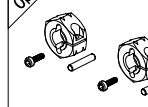
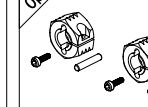
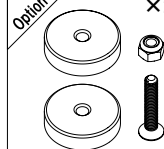
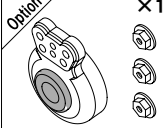
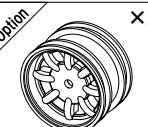
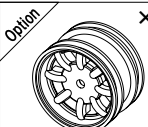
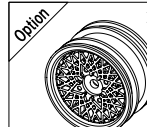
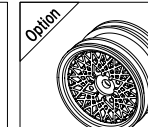
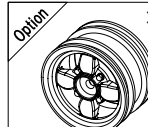
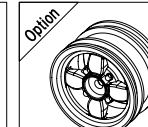
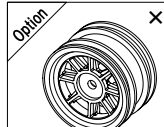
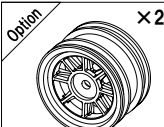
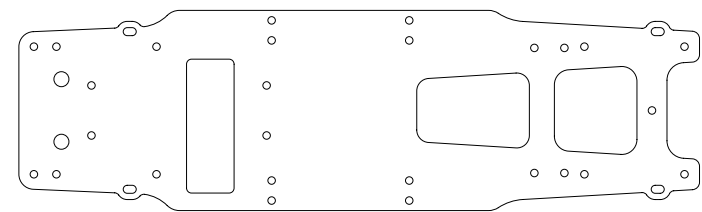
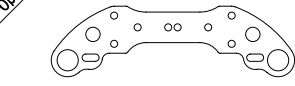

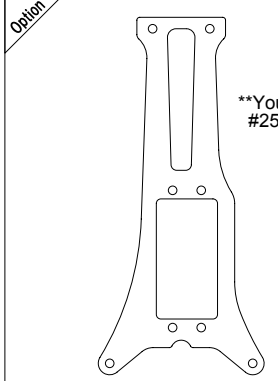
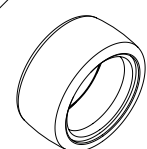


SPARE PARTS

Metal ×2  No25650 Universal Joint	Metal ×2  No25651 Diff Outer Joint	Rubber 1 set  P4 O-ring x 2 2x8mm Tapping Screw x 4 No25652 Diff gear Rubber Pad	Plastic 1 set  No25167 Bevel Gear Set	Metal ×2  No25653 Bevel Cross Pin	Rubber ×4  No25654 P3 O-ring (Silicone)	Metal ×4  No25655 3.5x0.2mm Spacer	Metal ×8  No25656 3.5x0.2mm Spacer
Metal ×4  No25657 2.0x9mm Pin	Metal ×4  No25658 1.6x8mm Pin	Metal ×2  No25659 4mm King Pin	Metal ×2  No25660 Rear Axle Shaft	Metal ×2  No25661 Steering Ball	Metal ×4  No25662 4.8mm Ball Stud	Metal ×2  No25663 Suspension Arm Pin	Metal ×1  No25664 Steering Rod
Metal ×1  No25665 Spur Gear Shaft	Metal ×1  No25666 Counter Gear Shaft	Metal A/B set  No25667 AL Motor Plate	Metal ×1  48 Pitch No25668 22T Pinion Gear	Plastic Counter Gear ×1  20T 48T Diff Gear No25669 48T Diff Gear	Plastic Spur Gear ×1  50T 25T Counter Gear 25T No25670 50T/25T Spur Gear	Plastic A/B set  No25671 Gear Box	Plastic ×1  No25672 Gear Cover
Plastic ×1  No25673 Servo Saver	Plastic 1 set  4.8mm Aluminum Ball No25674 Steering Rod End	Plastic ×2  No25675 Tie-Rod	Plastic ×1  No25676 Upper Deck	Plastic ×1  No25677 Front Upper Mount	Plastic ×1  No25678 Rear Upper Mount	Plastic ×1  No25679 Front Bumper	Plastic ×2  No25680 Battery Cover
Plastic L/R  No25681 Knuckle Set L/R	Plastic ×2  No25682 King pin Ball	Plastic A/B set  A B No25683 Sus Arm Holder Set	Plastic 1 set  No25684 Cable Cramp	Plastic ×2  No25685 Suspension Sim Set	Plastic ×1  No25686 Extension Plate	Plastic 1 set  Rear Bulk Rear Bulk Support No25687 Rear Bulk Set	
Plastic ×1  No25688 Grid Main Chassis	Plastic ×1  No25689 Friction Dumper	Plastic 1 set  Steering Support Steering Crank B Steering Crank A Steering Crank C No25690 Steering Crank Set	Plastic ×2  Wheel Hub 3x6 Plastic Spacer No25691 Grid Sus Arm Set				
Plastic 1 set  Upper Mount Holder Steering Unit Holder Motor Plate Holder No25692 Motor Mount Plastic Pats set	Plastic 1 set  Body Mount A Body Mount B Body Mount C No25693 Body Mount Set	Rubber ×2  No25694 SB Racing Tires	Plastic ×2  No25695 8S Type Wheels	Rubber ×1  No25696 Foam Bumper	Metal Black ×2  No25697 1.0mmx5T Spring		
Metal 1 set <ul style="list-style-type: none">⊙ 3x4mm Button Screw x 2⊙ 3x6mm Button Screw x 2⊙ 3x8mm Button Screw x 57⊙ 3x12mm Button Screw x 4⊙ 3x8mm Flat Head Screw x 17⊙ 3x12mm Flat Head Screw x 2⊙ 2.6x10mm Capped Screw x 4⊕ 2.6x10mm Flat Head Phillip Screw x 4⊙ 3x5mm 0.5t Washer x 6⊙ 3x7mm Washer x 4⊙ 3mm Nut x 1 No25704 Grid Hard Ware Set	Plastic ×1  No25698 Antenna Pipe Set	Metal ×4  No25699 Wheel Nuts	Metal ×10  No25700 Body Clip	Rubber ×1  No25701 Double Sided Tape	Metal ×1  No25702 Silicone Oil #5000	Metal ×1  No25703 Dumping Grease	
Bearta ×2  No25705 1510 Bearing	Bearta ×2  No25706 1050 Bearing	Bearta ×2  No25707 850 Bearing					

OPTION

PARTS

<p>Option Red ×2</p>  <p>No25750 0.7mmx5T Spring</p>	<p>Option Yellow ×2</p>  <p>No25751 0.8mmx5T Spring</p>	<p>Option Blue ×2</p>  <p>No25752 0.9mmx5T Spring</p>	<p>Option White ×2</p>  <p>No25753 1.1mmx5T Spring</p>	<p>Option ×1</p>  <p>No25754 AL Servo Horn</p>	<p>Option ×1</p>  <p>No25755 AL Steering Rod</p>	<p>Option ×1</p>  <p>No25756 50/30T Spur Gear Set</p>	<p>Option ×1</p>  <p>No25757 Crank Holder (for CFRP Chassis)</p>
<p>Option ×4</p>  <p>No25758 Rod End</p>	<p>Option ×4</p>  <p>No25759 3x10mm Set Screw Set</p>	<p>Option ×2</p>  <p>No25760 Titanium 3x25mm Turnbuckles</p>	<p>Option ×2</p>  <p>No25761 AL Oil Filled Dumper</p>	<p>Option ×2</p>  <p>No25762 King Pin Ball Holder (for CFRP Chassis)</p>	<p>Option ×1</p>  <p>No25763 Antenna Holder (for CFRP Chassis)</p>	<p>Option ×2</p>  <p>No25764 Battery Holder (for CFRP Chassis)</p>	
<p>Option ×1</p>  <p>No25765 Dumping Grease M</p>	<p>Option ×1</p>  <p>No25766 Dumping Grease S</p>	<p>Option ×2</p>  <p>No25772 630 Bearing</p>	<p>Option ×2</p>  <p>No24155 AL Hub 5mm</p>	<p>Option ×2</p>  <p>No24156 AL Hub 6mm</p>	<p>Option ×2</p>  <p>No24157 AL Hub 7mm</p>	<p>Option ×2</p>  <p>No25151 (10g x 2) Extra Weights</p>	<p>Option ×1</p>  <p>No24124 Heavy Duty Servo Saver</p>
<p>Option ×2</p>  <p>No24118 TTR Wheel Reinforced / Black</p>	<p>Option ×2</p>  <p>No24128 TTR Wheel Reinforced / White</p>	<p>Option ×2</p>  <p>No24193 TTR Wheel S-Mesh / White</p>	<p>Option ×2</p>  <p>No24194 TTR Wheel S-Mesh / Black</p>	<p>Option ×2</p>  <p>No24195 TTR Wheel BRE / White</p>	<p>Option ×2</p>  <p>No24195 TTR Wheel BRE / Black</p>	<p>Option ×2</p>  <p>No24190 TTR Wheel HS / White</p>	<p>Option ×2</p>  <p>No24191 TTR Wheel HS / Black</p>
<p>Option ×1</p>  <p>No25767 Grid Carbon FRP Main Chassis</p> <p>**You will need #25764.</p>				<p>Option ×1</p>  <p>No25768 Carbon FRP Front Upper Mount</p> <p>**You will need #25762 and #24757.</p>	<p>Option ×1</p>  <p>No25769 Carbon FRP Rear Upper Mount</p> <p>**You will need #25762.</p>	<p>Option ×1</p>  <p>No25770 Carbon FRP Upper Deck</p> <p>**You will need #25763.</p>	
<p>Option 1 set</p> <ul style="list-style-type: none"> ⊙ 3x4mm Button Screw x 2 ⊙ 3x6mm Button Screw x 6 ⊙ 3x8mm Button Screw x 56 ⊙ 3x12mm Button Screw x 4 ⊙ 3x8mm Flat Head Screw x 17 ⊙ 3x12mm Flat Head Screw x 2 <p>No25771 Grid Titanium Screw Set</p>	<p>Option ×2</p>  <p>No24104 N Racing Tires</p>						

Griu is a name only in the United States. ABC HOBBY sells it by a name **Gambado** in Japan and the foreign countries.



"TTR" is the category name that showed a name called conventional "1/10Mini" by abbreviation of "Twelfth scale Touring Racer" clearly.