

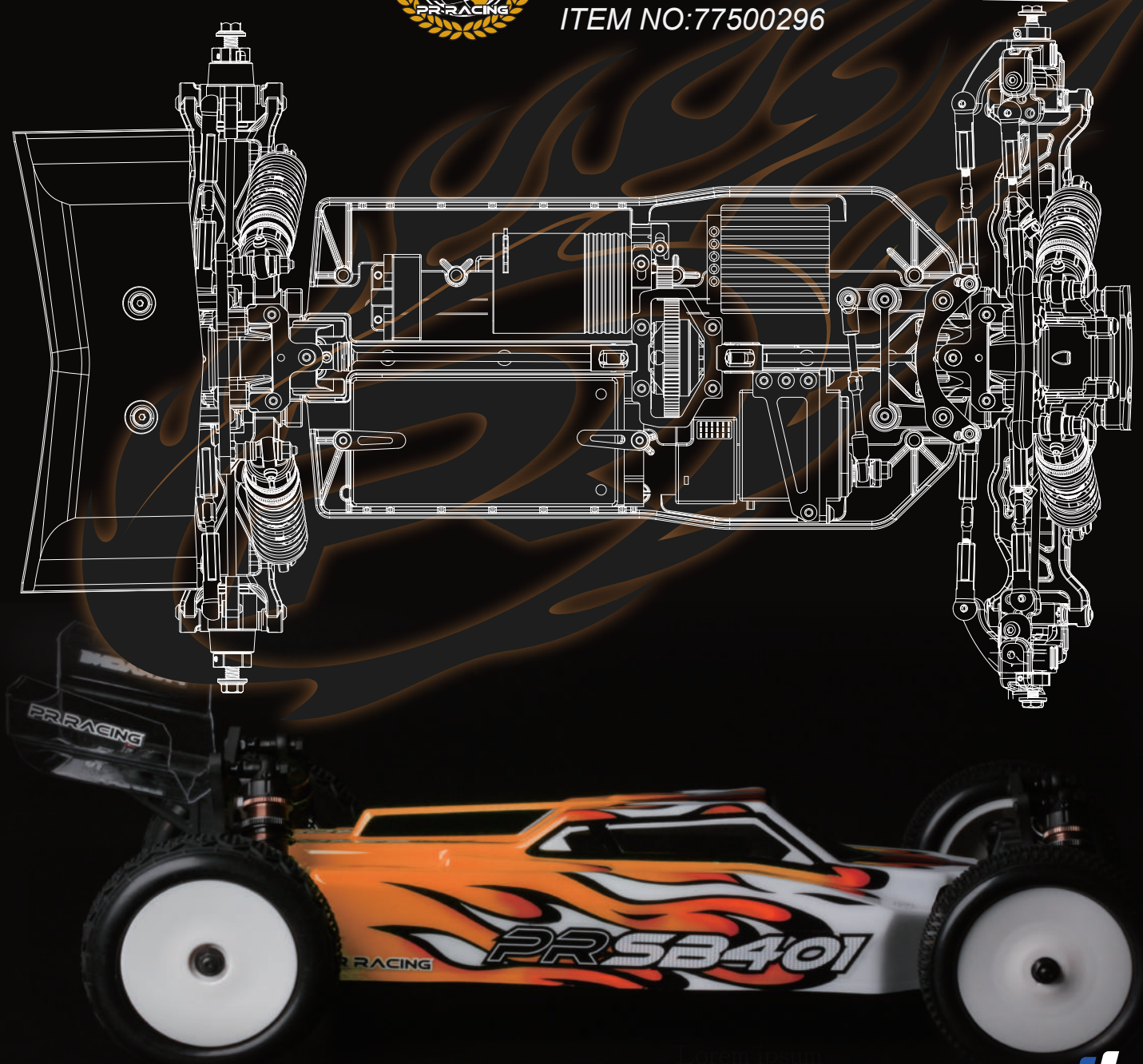
PR SB401



PR RACING
TYPE



ITEM NO:77500296

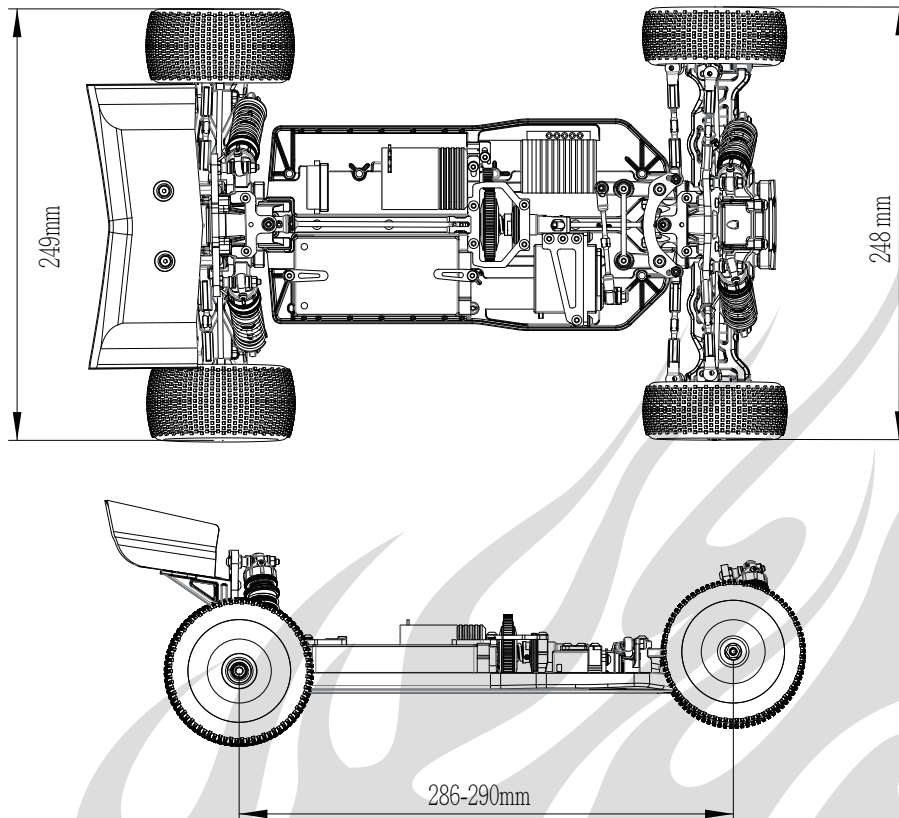


mit
MADE IN TAIWAN

2026 PR SB401-R 1/10 4WD Off-Road Electric Buggy Kit Dirt (Center Diff +
Sliper Clutch Version)

PR RACING

P R R A C I N G P R R A C I N G



2026 SB401R Features

Dirt (Center Diff+Sliper Clutch Version)

NEW-17430118-Machined 13mm Shock Pistons (2x1.8mm)

NEW-20220018-SB401R Carbon Fibre Front Shock Tower V2

NEW-94500046- Front Shock Towers Covers

NEW-77430107-TYPE R Front Shock Body 13mm

NEW-77430118-TYPE R Rear Shock Body 13mm

NEW-90510027-2026 SB401R 2.5mm Aluminum Chassis V2

NEW-77500057-SB401R Servo Mount L Pro

NEW-52000028-13mm Shock Collars Aluminum (18mm Spring)

NEW-62540002- Front Shock Set (18mm Spring)

NEW-62540003- Rear Shock Set (18mm Spring)

Specifications

Type: 1/10 th 4wd Off-Road Buggy Kit

Power Source: Electric

Wheelbase: 286-290mm (variable)

Width: 247-249mm

Gear Ratio: 2.6:1

Weight: 1680g-1720g race ready (varies)

Hardware: Full metric

Bearings: Sealed Metal Ball Bearings

Wheels: 12mm hex

Kit: Assembly required

Items Required to Complete

2 Channel surface frequency radio system

2S Lipo battery & compatible lipo charger

1/10 ESC, motor & pinion gear

High-Speed Servo

1/10 tyres and inserts

Tools

Paint for polycarbonate body

Tyre glue

Threadlock

Silicon diff and shock oil

● BEFORE INSTALLATION	01
● BAG A	03-08
A1.1 Chassis Brace Installation	
A1.2 Motor Mount & Sponge	
A2 Gear Diff Assembly	
A2.1 Center Diff	
A3 Slipper Assembly	
A5 Gear Box Assembly Rear Shock Tower Installation	
A4 Gear Box Assembly Front Shock Tower Installation	
● BAG B	09-13
B1 FR Suspension Mount Installation	
B2.1 Front Hub Carrier Assembly (Left Side)	
B2.2 Front Hub Carrier Assembly (Right Side)	
B3 FF Suspension Mount & Front Sway Bar Installation	
B4 Front Upper Turnbuckle Assembly	
B5 Gearbox-Reinforcement (Front)	
● BAG C	14-17
C1 Rear Assembly RF Suspension Mount	
C2 Rear Left Hub Carrier Assembly	
C3 Rear RR Suspension Mount	
C4 Rear Upper Turnbuckle Assembly	
C5 Rear Sway Bar Installation	
● BAG D	18-20
D1 Bell Crank Installation	
D2 Steering	
D3 Turnbuckle Assembly-Steering Rod	
D4 Steering Servo	
D5 Center Mount Plate	
D6 Battery Hold Down Installation	
● BAG E	21-23
E1 Front & Rear Shock Assembly	
E2 Front & Rear Shock Installation	
E3 Motor Installation	
E4 Mounting Tires Wheel Installation	
● Upgrade Parts	24
● Setup Sheet	25
● Pinion Spur Gear	26

BEFORE INSTALLATION

- 1 Read through the instruction manual before installation in order to have an overview of what to do.
- 2 Check if there are any missing bags or defective parts. If so, please contact your local dealer or PR Distributor.
- 3 This kit contains screws and hardware in different metric sizes and shapes. Before using them, check the screws against the true-to-scale diagrams on the left side of each assembly step. Some screws are extras.
- 4 Symbols used throughout the instruction manual are as follows:



Part bags used.



Assemble as many times as specified (here: twice).



Tighten securely.



Note the direction.



True-to-scale diagram.



Do not over tighten.



Must be purchased separately.



Apply threadlocker (screw cement)



Ensure smooth non-binding movement while assembling.



Assemble in the specified order.



Apply grease.



Cut off shaded portion.



Assemble left and right sides the same way.



Apply oil.

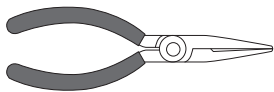
HEALTH WARNING

This model is a high-performance radio controlled racing product that is designed for use on R/C car race tracks. If it is misused it could cause injury to the operator or others. Many of the items in this kit are small enough to be accidentally swallowed; therefore, it is not suitable for young children. All items, inclusive of liquids, contained in this kit are not intended for human consumption. Rotating parts of the car may cause injury if not handled with care.

TOOLS REQUIRED

CAUTION: Handle tools carefully!

- Needle Nose Pliers



- Body Reamer



Do not pre-drill as precise drilling of 1mm to 15mm holes can be performed after body shell painted.

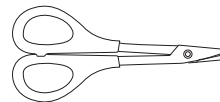
- Grease



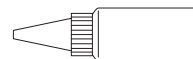
- Wire Cutters



- Lexan Scissors



- Screw Cement



- Hex Wrench



1.5mm

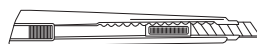


2.0mm

- Ball Differential Grease



- Sharp Hobby Knife

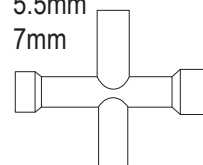


- Cross Wrench

5mm

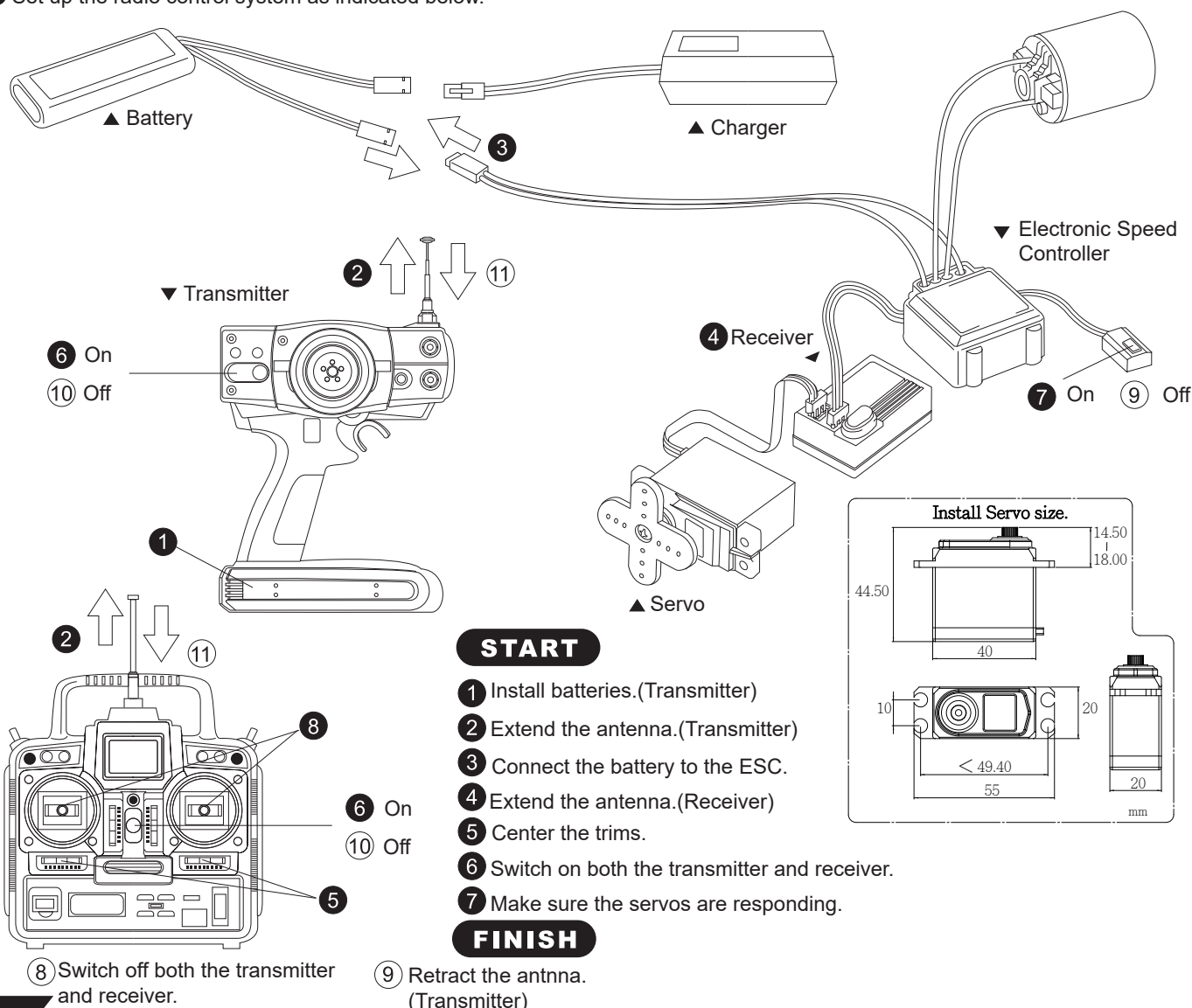
5.5mm

7mm



RADIO PREPARATION

- A new battery must be charged before it is used. Refer to the charger instruction manual for charging.
- Set up the radio control system as indicated below.





A1.1 Chassis Brace Installation

7
82400016 FHCS M3x6mm

6
82400026 FHCS M3x8mm

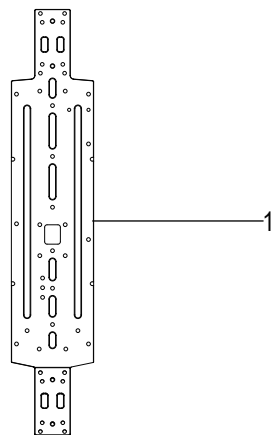
6
80400036 BHCS M3x8mm

1
20220006

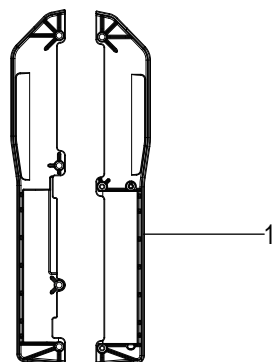
1
20220005

1
77500096/F

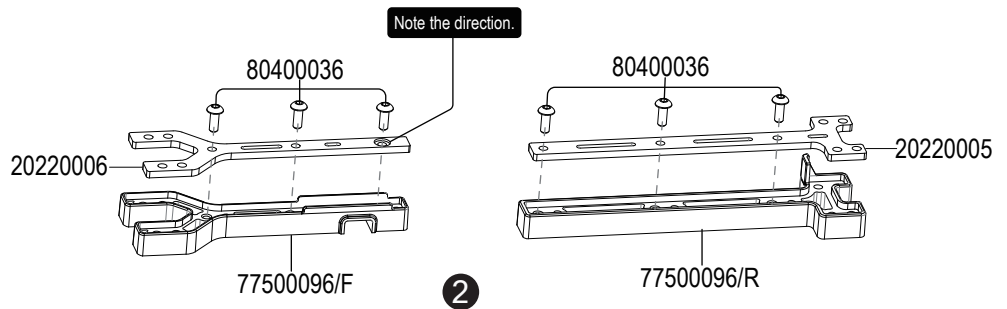
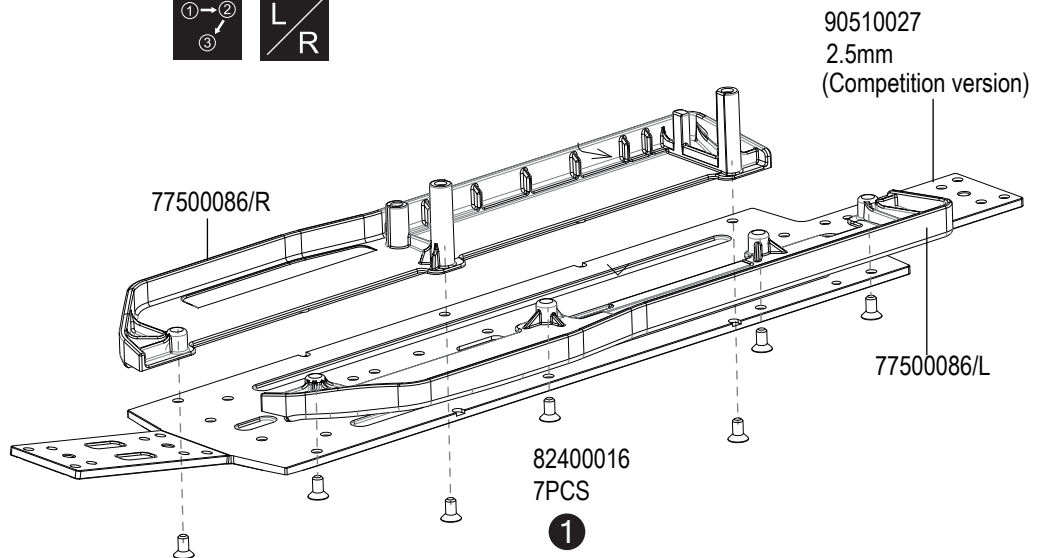
1
77500096/R



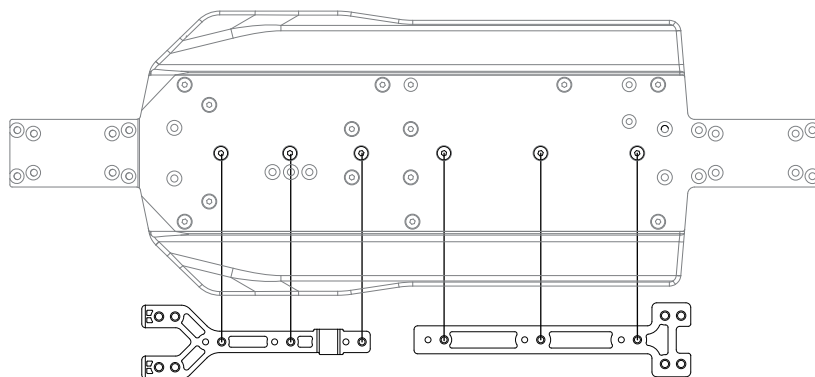
90510027



77500086



Chassis rib screw position



82400026 FHCS M3x8mm



Part bags used.



Assemble in the specified order.

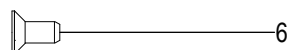


Assemble left and right sides the same way.

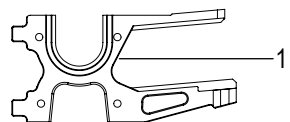


Note the direction.

A1.2 Motor Mount & Sponge



82400016 M3x6mm FHCS



77500016



68400016



54430028 Foam
1x9x99mm&3x9x99mm

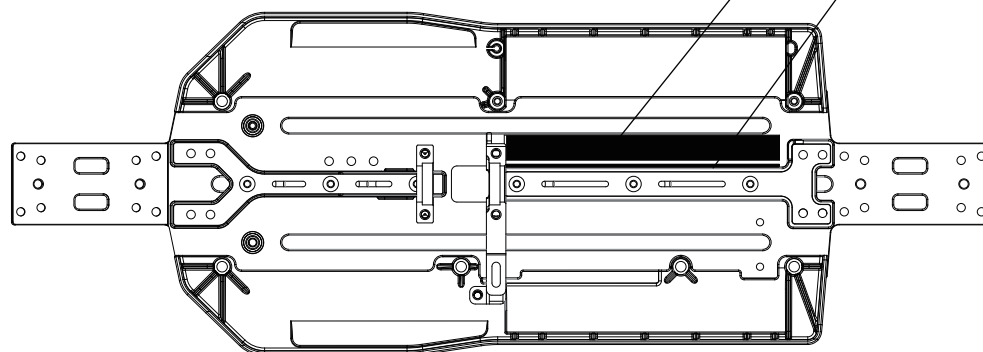


77500066

PR SB401-R Difference seat C
Slipper Clutch
Differential use

Battery size adjustment

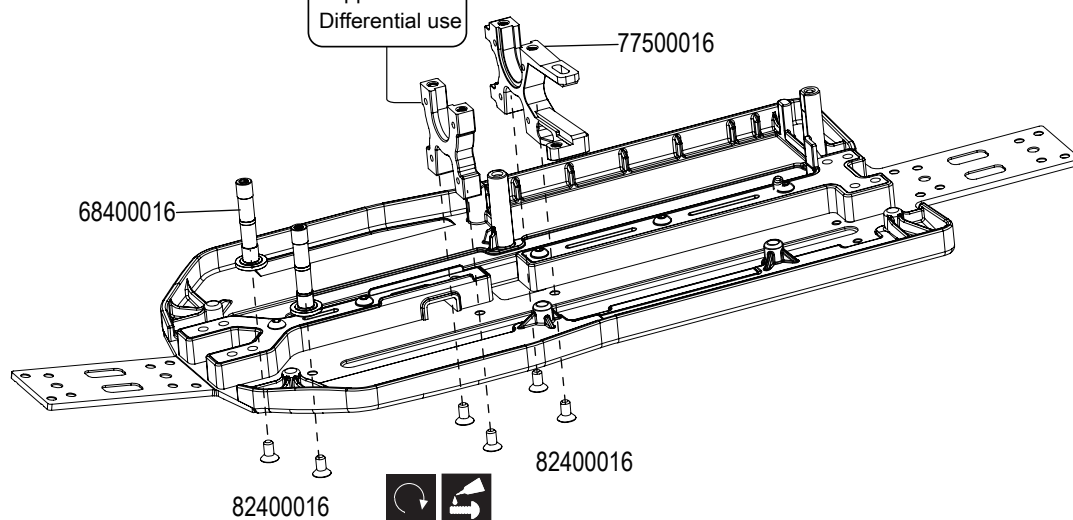
54430028 Sponge
10x99x1mm or 3 mm



77500066
Slipper Clutch
Differential use

77500016

68400016



82400016

82400016



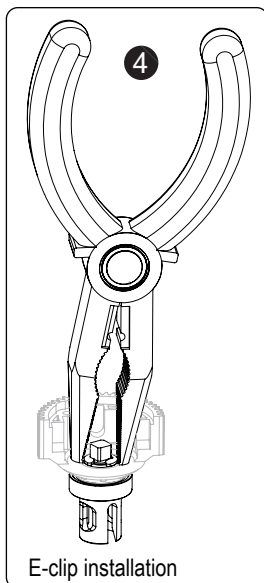
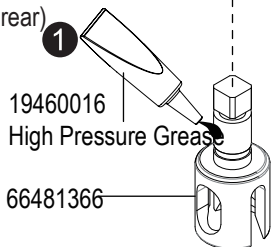
A2 Gear Diff Assembly

- 82400166 M2.6x10mm FHCS
- 85440170 5x8x0.8mm Shim
- 85440160 4x10x0.15mm Shim
- 85400016 3.5mm E-clip

- 5 66480336 14T
- 4 85400016
- 3 Shim 5x8x0.8
- 2 31450016 O-ring

x2

Build x2
(1 front, 1 rear)

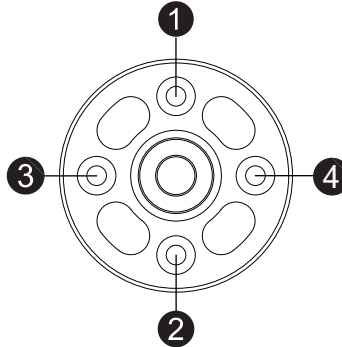


Build x2 (1 front, 1 rear)

Finish tightening in this order.

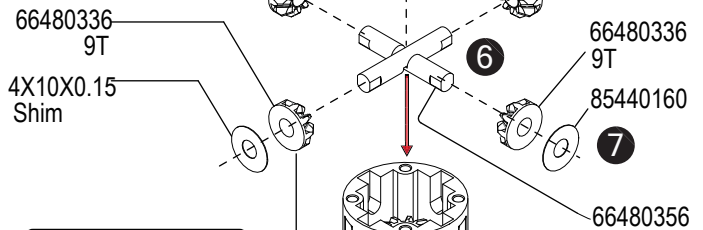
請照順序對角鎖緊差速上蓋螺絲

1 → 2 → 3 → 4



1 → 2 then 3 → 4

Be sure not to over-tighten the ring gear screws. This will lead to the gear warping.

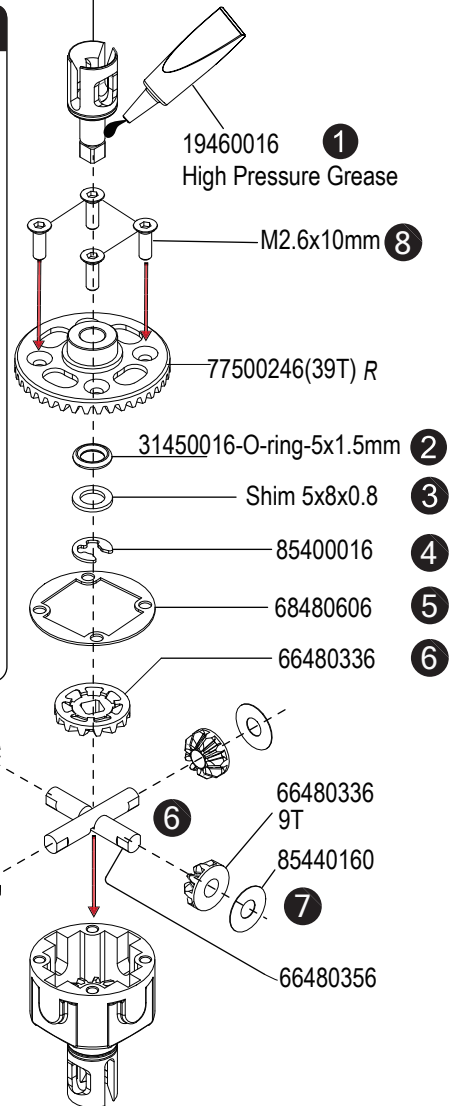


Based on track conditions, you can use 2 gears or 4 gears

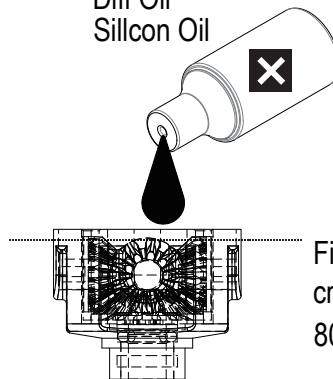
66481366

1 → 2
3

x2



Diff Oil
Silicon Oil

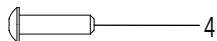


Fill to top of the cross pins
80% oil max

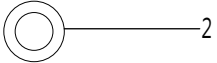
Initial Setting

Front Diff	Rear Diff
Dirt 7000 Cst	Dirt 5000 Cst
Carpet 10000 Cst	Carpet 7000 Cst

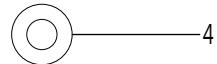
A2.1 Center Diff



80400226
BHCS M2.5x10mm



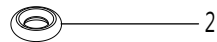
85440170
Shim 5x8x0.8mm



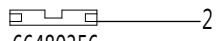
85440150
Shim 4x8x0.25



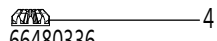
85400016 3.5 E Clip



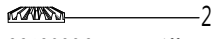
31450016 5x1.5mm(O-ring)



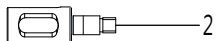
66480356
Gear Diff Cross Pins Aluminum



66480336
Gear Diff Internal Gear 9T



66480336 Gear Diff Internal Gear 14T



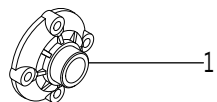
77500316 Centre Diff Cup



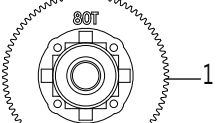
89430030 Bearing 10x15x4mm



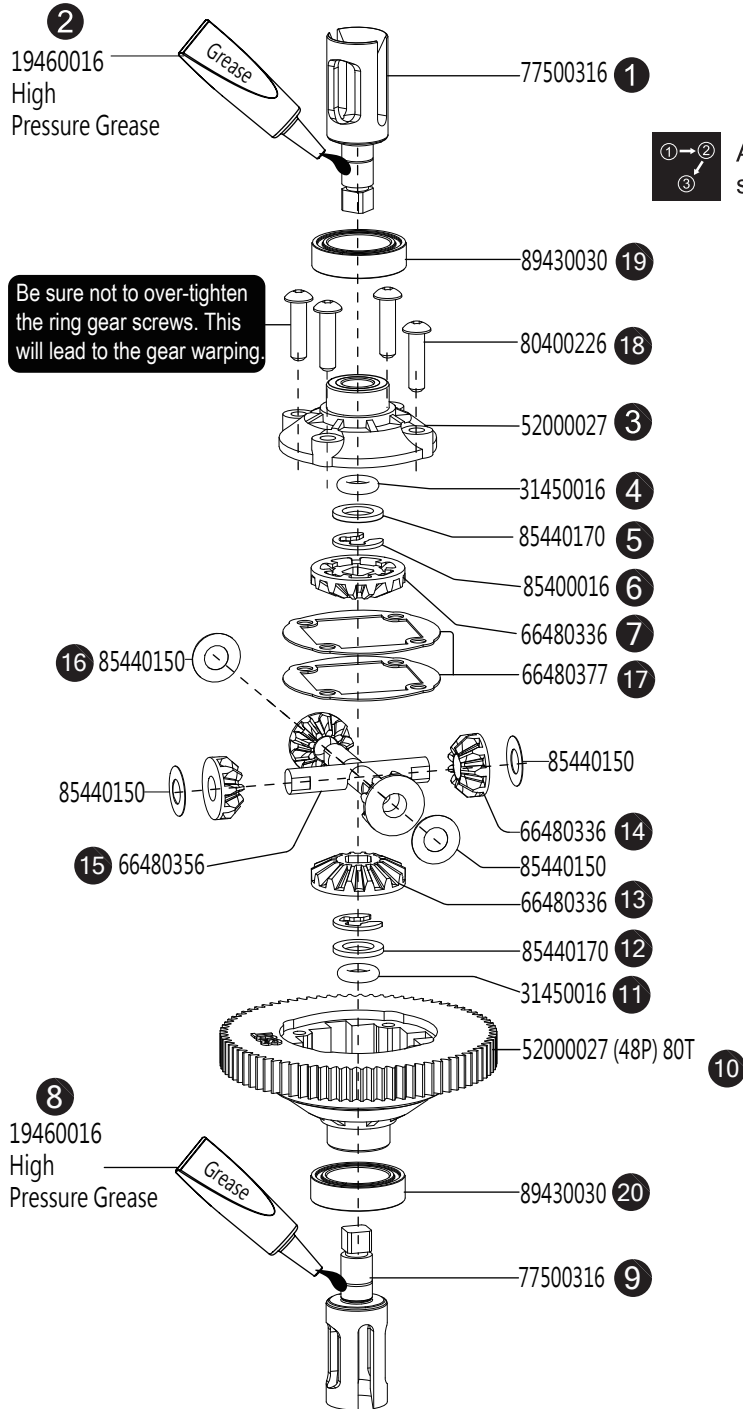
66480377
PR SB401R Center Gear diff Gasket
0.3mm



52000027 Centre Diff Spur Gear Top



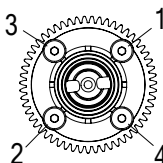
52000027 (48P) 80T
Centre Diff Spur Gear



Assemble in the
specified order.



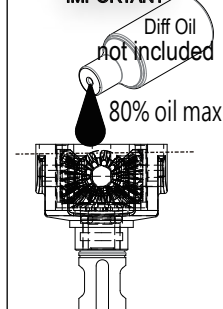
IMPORTANT



Finish tightening in
this order.



IMPORTANT



Diff Oil
Centre Diff Spur Gear

Low Traction

30000cst

Medium High Traction

50000cst

Super High Traction

100000cst

A3 Slipper Assembly

- 1
87400016 Set Screw M3x3mm
- 1
82400016 FHCS M3x6mm
- 1
79400096 Pin 2x7.8mm (Silver)
- 2
79400016 Pin 2x10.8mm (Black)
- 2
89430030 10x15x4mm-zz Ball Bearing
- 1
85440290 Shim 3x5x0.3mm



68000100-73T
68400196-75T
(Motor 17.5t)

68400206-77T
(Motor 13.5t)

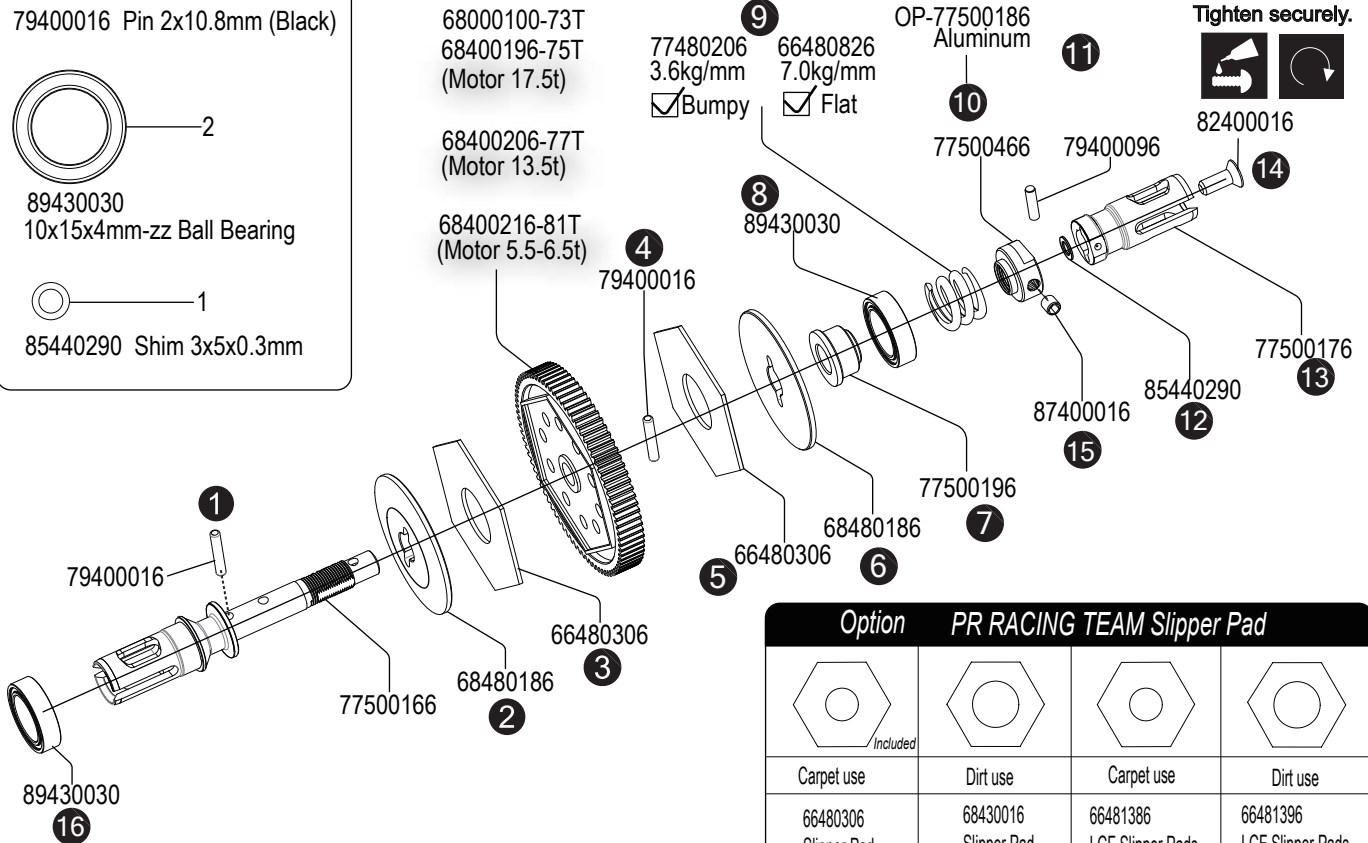
68400216-81T
(Motor 5.5-6.5t)

77480206
3.6kg/mm
✓Bumpy

66480826
7.0kg/mm
✓Flat

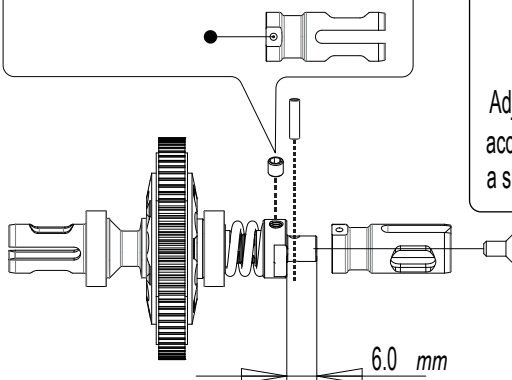
OP-77500186
Aluminum

Tighten securely.

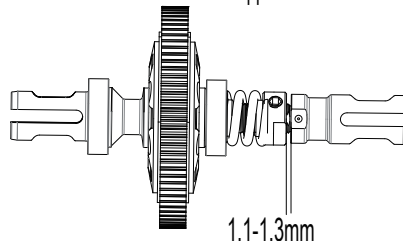


Option	PR RACING TEAM Slipper Pad		
Carpet use	Dirt use	Carpet use	Dirt use
66480306 Slipper Pad 11mm (White)	68430016 Slipper Pad 19mm (White)	66481386 LCF Slipper Pads 11mm (Yellow)	66481396 LCF Slipper Pads 19mm (Yellow)

Tighten the set screw Only on the flat area
of the Shaft.
Do not tighten it on the thread.



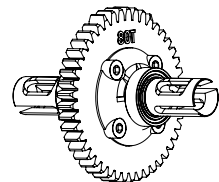
77500306-PR SB401-R Slipper Clutch Set



Adjust the slipper so that when the car
accelerates from a dead stop, there is
a small amount of slip.

77480106

PR SB401-R 80T Central Differential Set



Track Conditions (Traction)

Very-High	Oil 50000 Cst
Medium	Oil 10000 Cst
Very-Low	Oil 7000 Cst



Part Bags used.



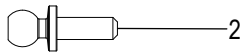
Assemble in the
specified order.



Apply threadlocker (screw cement)



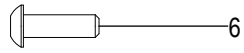
Tighten securely.



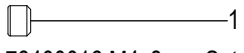
68430046
4.8x8mm Ball Studs



83400026 M3 Lock Nut



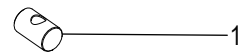
80400046 BHCS M3x10mm



78400016 M4x3mm Set Screw



68481256



66401096



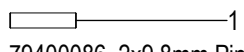
85440230 Shim 10x12.5x0.1mm



89430010 5x10x4mm Bearing



89430030 10x15x4mm Bearing



79400086 2x9.8mm Pin



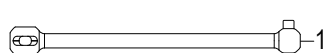
68480986 Gear Case



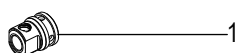
20220018 Front Shock Tower



77500236

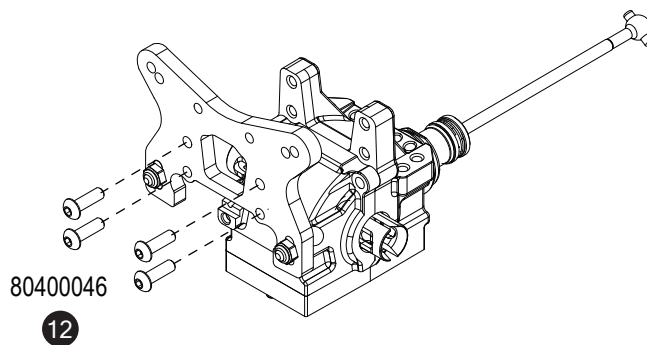
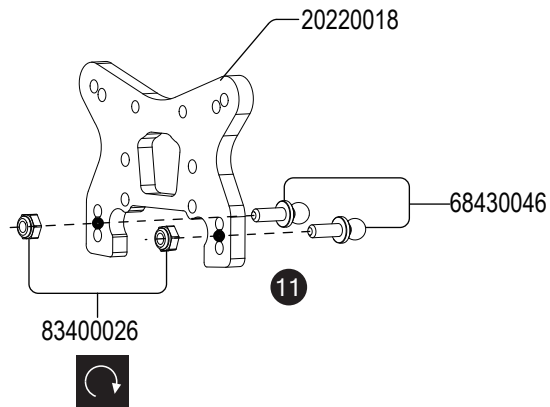
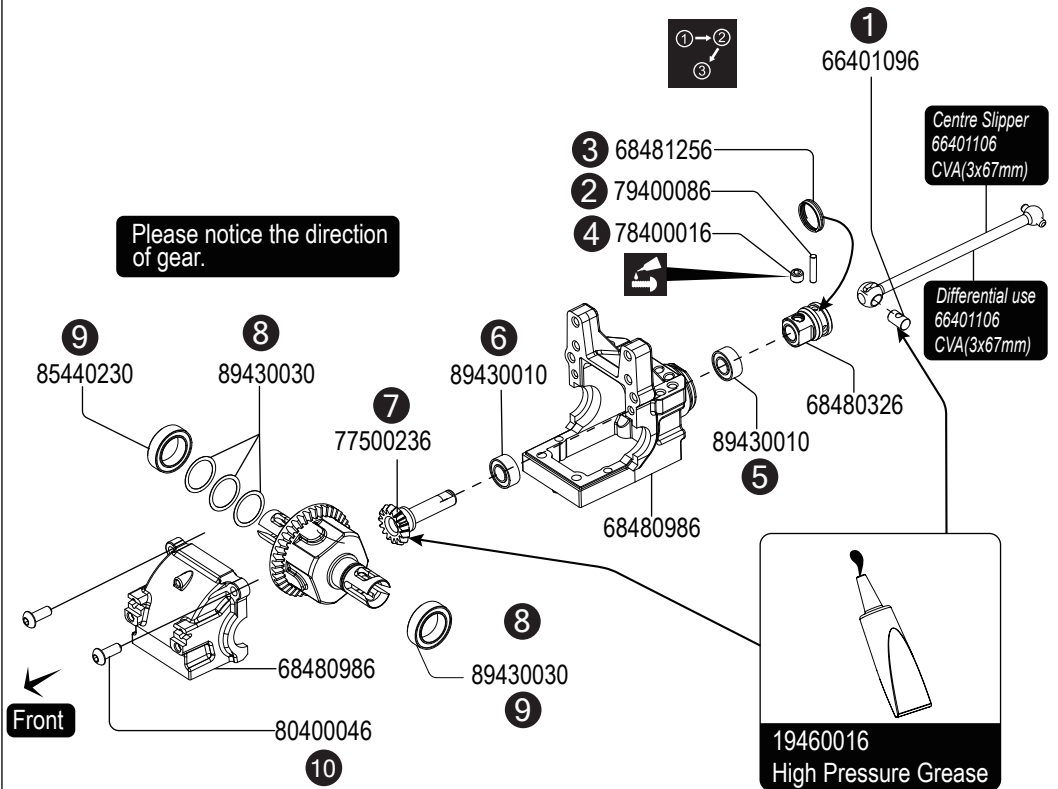


66401106 CVA(3x67mm)



68480326

Please notice the direction of gear.



 2
68430046 4.8x8mm Ball Studs

 2
83400026 M3 Lock Nut

 6
80400046 BHCS M3x10mm

 1
78400016 M4x3mm Set Screw

 1
68481256

 3
85440230 10x12.5x0.1mm Shim

 2
89430010 5x10x4mm Bearing

 2
89430030 10x15x4mm Bearing

 1
79400086 2x9.8mm Pin

 1
66401096

 1
68480986 Gear Case

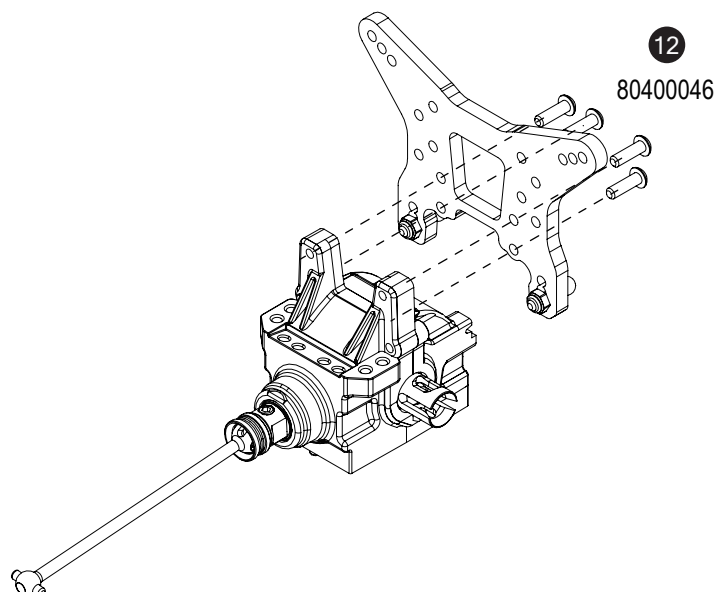
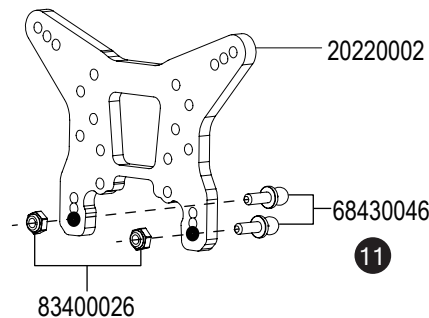
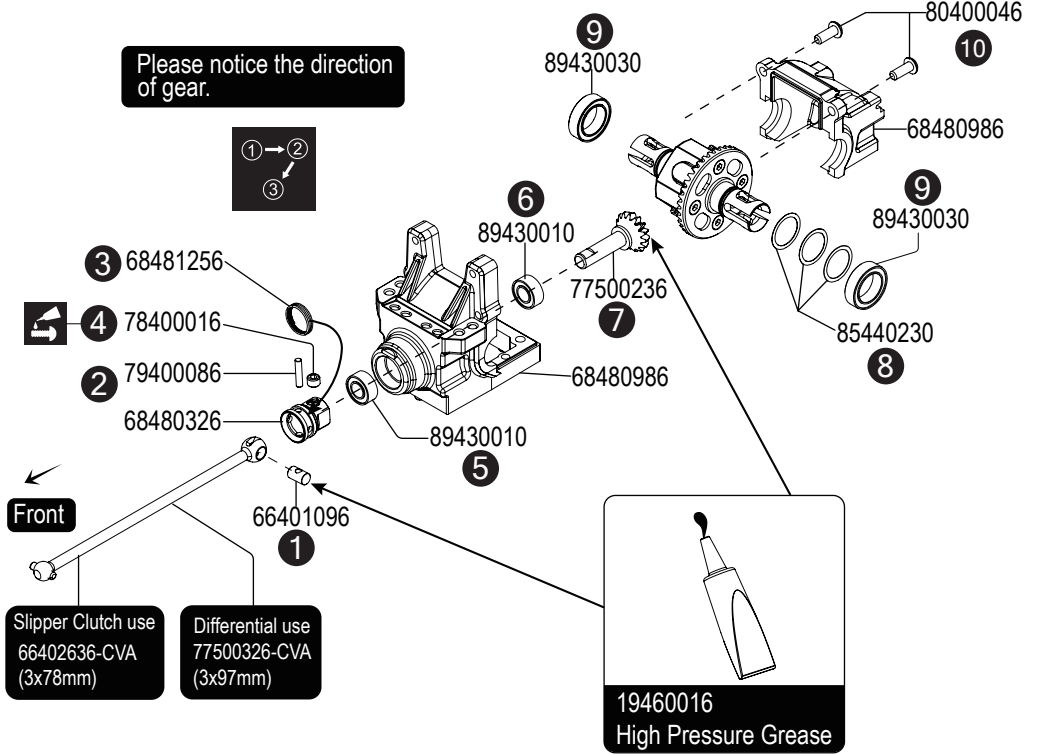
 1
20220002 Rear Shock Tower

 1
77500236

 1
68480326

 1
66402636 CVA (3x78mm)

Please notice the direction of gear.



Part bags used.



Apply grease.



Apply threadlocker
(screw cement)

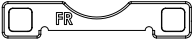


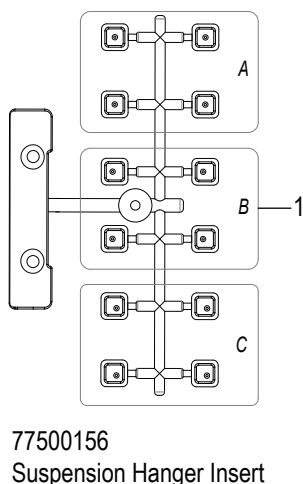
Assemble in the
specified order.



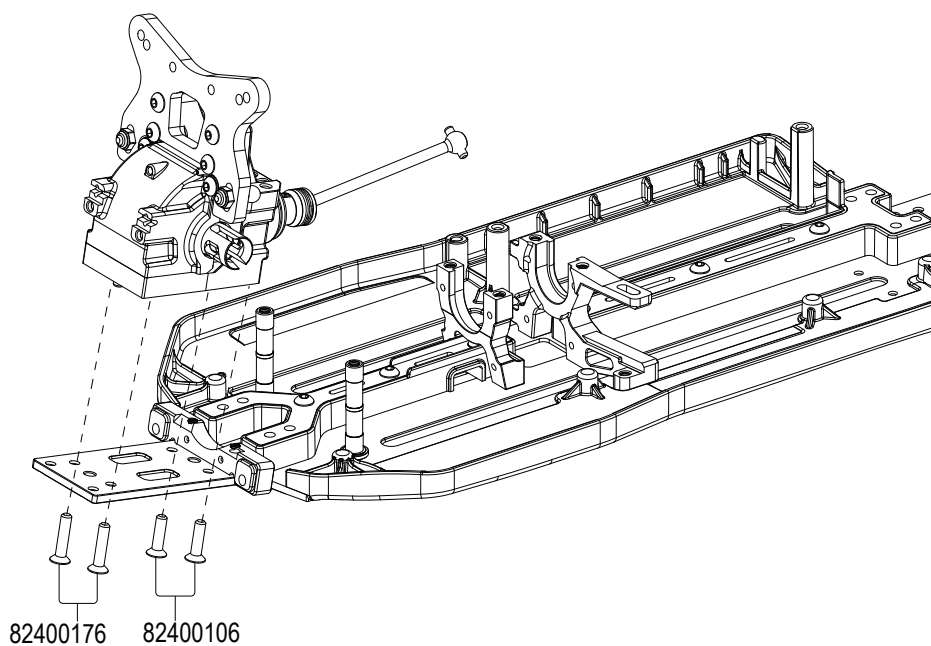
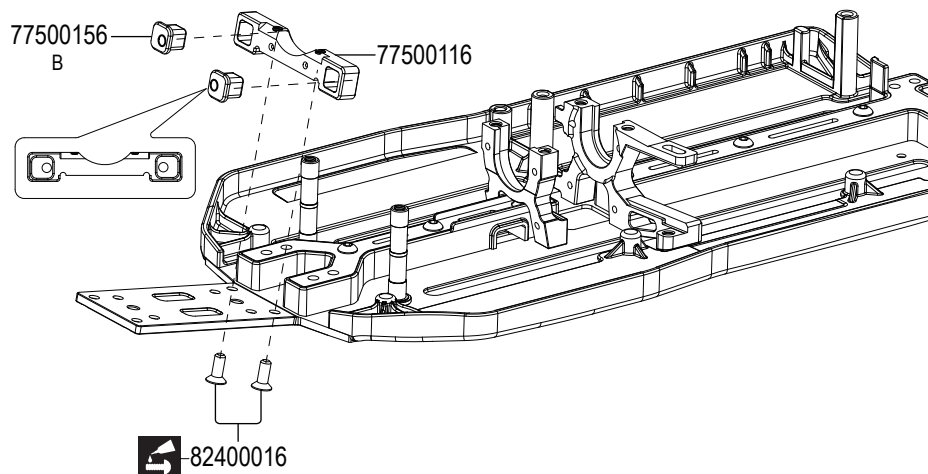
B1 FR Suspension Mount Installation

-  2
82400016 FHCS M3x6mm
-  2
82400106 FHCS M3x10mm
-  2
82400176 FHCS M3x15mm

-  1
77500116
FR Suspension Mount



FRONT HANGER INSERTS				FF	FR	TOE	SQUAT
				0	0	0	0
				0	0	0	+0.7
				0	0	0	+1.4
				0	0	0	-0.7
				0	0	0	0
				0	0	0	+0.7
				0	0	0	-1.4
				0	0	0	-0.7
				0	0	0	0

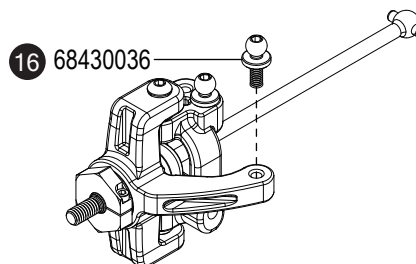
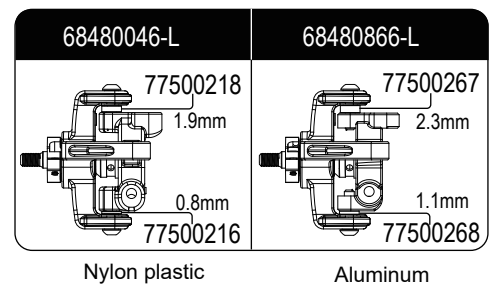
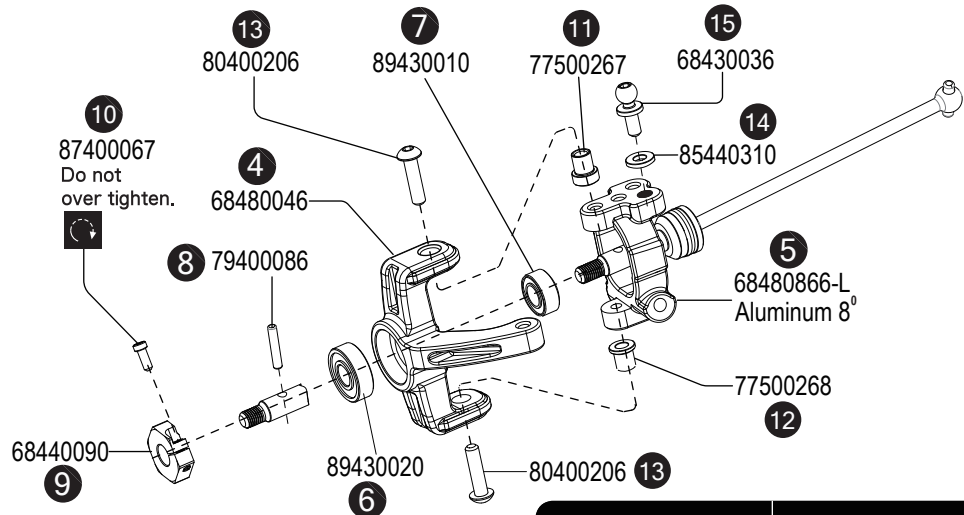
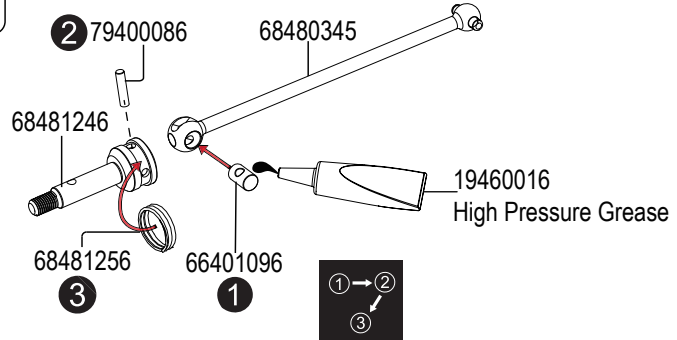


B2.1 Front Hub Carrier Assembly (Left Side)

Left Side

-  2
 80400206 BHCS M3x12mm
 2
 68430036 4.8x6mm Ball Studs
 1
 89430010 5x10x4mm Bearing
 1
 89430020 5x13x4mm Bearing
 1
 79400086 2x9.8mm Pin (Silver)
 1
 79400016 2x10.8mm Pin (Black)
 1
 87400067 SHCS M2x6
 1
 68440090 4.2mm
 1
 68481246
 1
 68480046
 1
 85440310 3x6.5x1mm
 Silver Aluminum Spacer 1mm
 1
 66401096
 1
 68480345 CVA(3x76mm)
 1
 68481256
 1
 77500267 2.3mm (Brown)
 1
 77500218 1.9mm (Black)
 1
 77500268 1.1mm (Brown)
 1
 77500216 0.8mm (Silver)

Corner Speed	
Stable	Aggressive
 Nylon plastic	 Aluminum
68480046-L	68480866-L



Part bags used.



Do not over tighten.



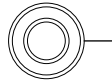
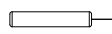
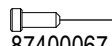
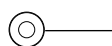
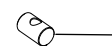
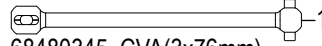
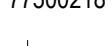
Assemble in the specified order.



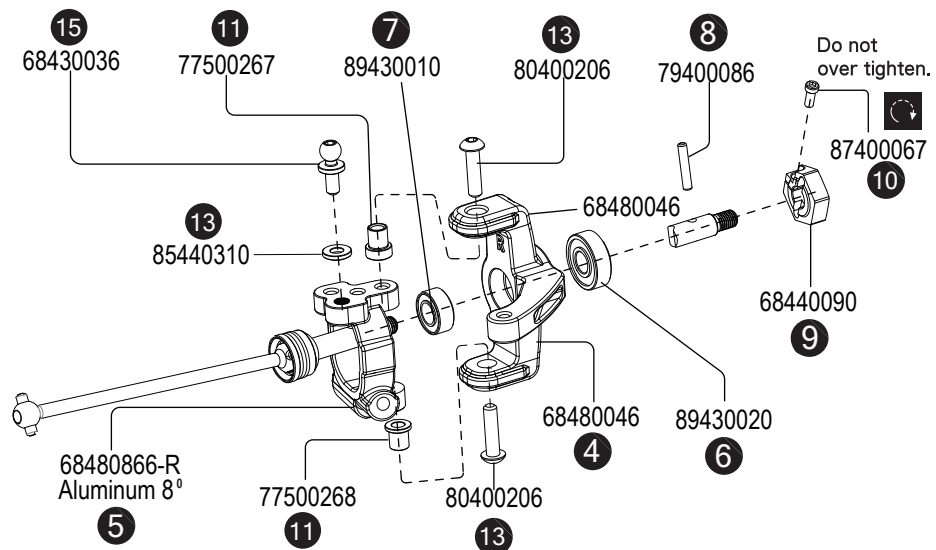
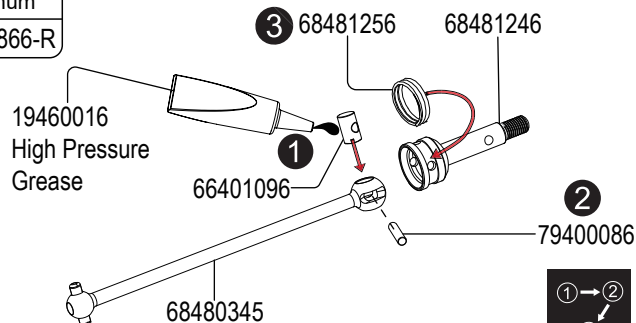
Apply oil.

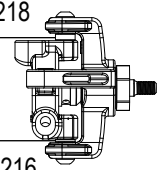
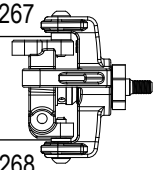
B2.2 Front Hub Carrier Assembly (Right Side)

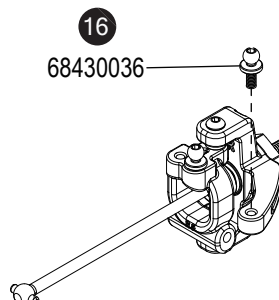
Right Side

-  2
80400206 BHCS M3x12mm
-  2
68430036 4.8x6mm Ball Studs
-  1
89430010 5x10x4mm Bearing
-  1
89430020 5x13x4mm Bearing
-  1
79400086 2x9.8mm Pin (Silver)
-  1
79400016 2x10.8mm Pin (Black)
-  1
87400067 SHCS M2x6
-  1
68440090 4.2mm
-  1
68481246
-  1
68480046
-  1
85440310 3x6.5x1mm Silver Aluminum Spacer 1mm
-  1
66401096
-  1
68480345 CVA(3x76mm)
-  1
68481256
-  1
77500267 2.3mm (Brown)
-  1
77500268 1.1mm (Brown)
-  1
77500218 1.9mm (Black)
-  1
77500216 0.8mm (Silver)

Corner Speed	
Stable	Aggressive
	
Nylon plastic 68480046-R	Aluminum 68480866-R



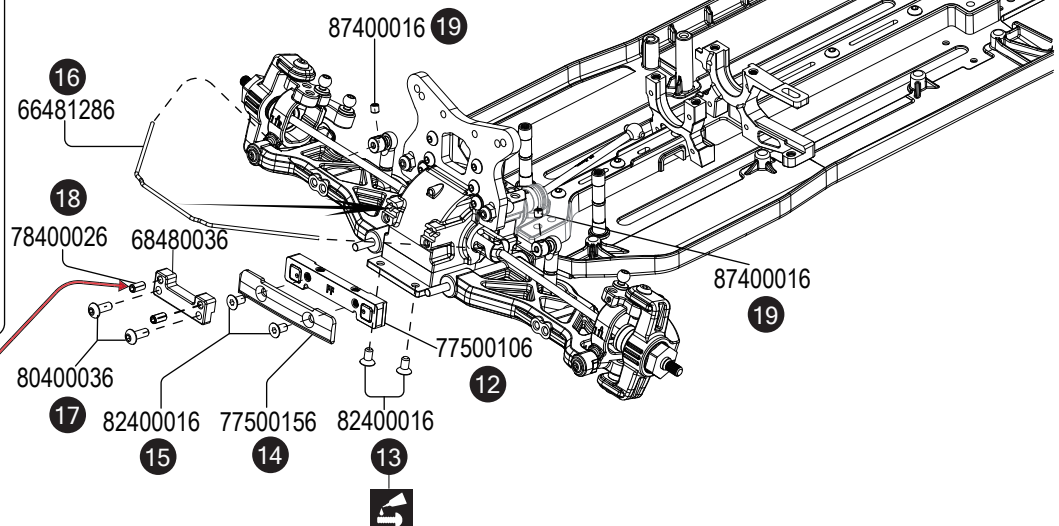
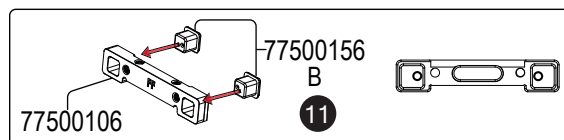
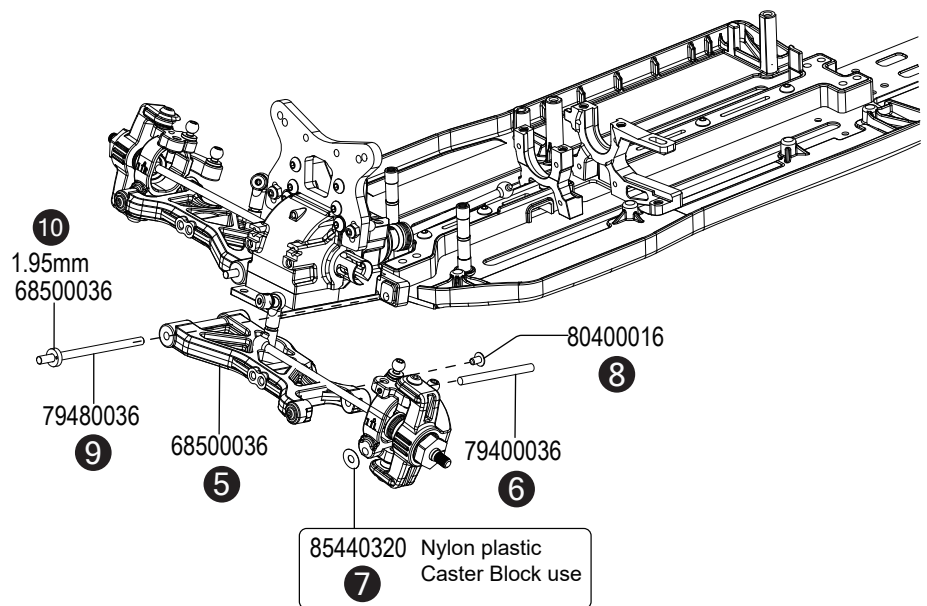
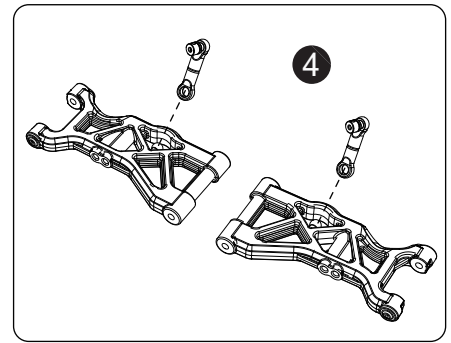
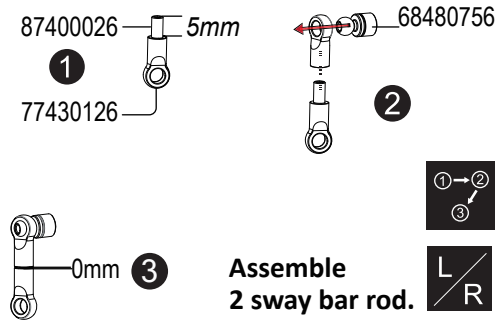
68480046-R	68480866-R
	
77500218 1.9mm 0.8mm 77500216	77500267 2.3mm 1.1mm 77500268
Nylon plastic	Aluminum





B3 FF Suspension Mount & Front Sway Bar Installation

- 4
82400016 FHCS M3x6mm
- 2
80400016 BHCS M2.5x4mm (5.5mm)
- 2
80400036 BHCS M3x8mm
- 2
87400016 Set Screw M3x3mm
- 2
78400026 Set Screw M3x6mm
- 2
87400026 Set Screw M3x10mm
- 2
79400036 3x36.8mm Pin
- 2
79480036 3x52mm Pin
- 2
85440320 3x8x0.15mm Shim
- 1
77500106
- 4
77430126
- 2
68480756
- 2
68500036
1.95mm
1.95mm
- 1
66481276 Sway Bar (1.3mm)
- 1
68480036 Sway Bar Mount
- 1
77500156



Adjust the M3x6 Set Screws and stopper to remove any gap but allow the sway bar to swivel smoothly



Part bags used.



Assemble left and right sides the same way.



Apply threadlocker (screw cement)



Assemble in the specified order.

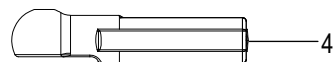


B4 Front Upper Turnbuckle Assembly

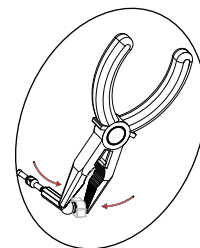
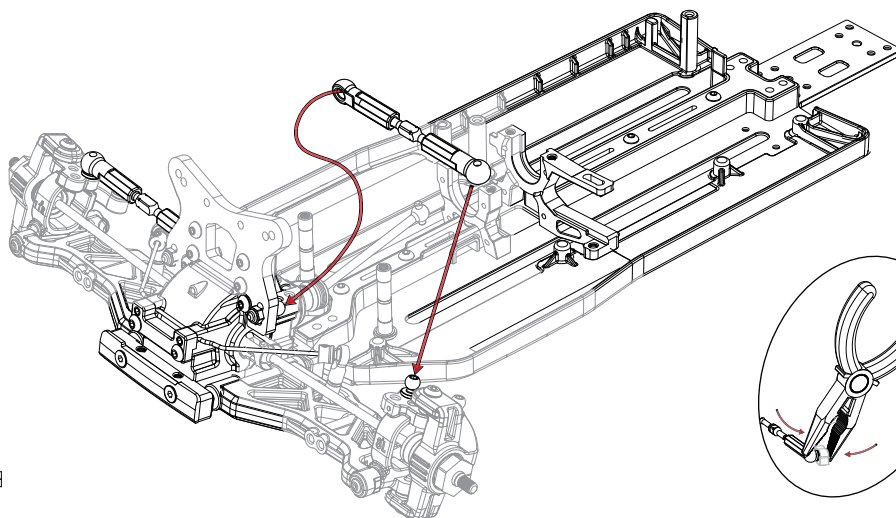
One side is reverse threaded.



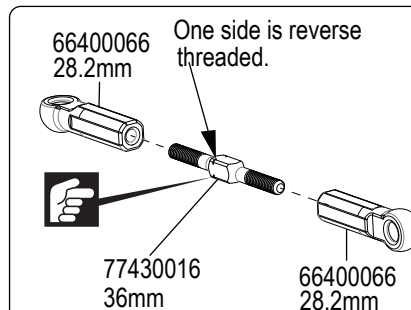
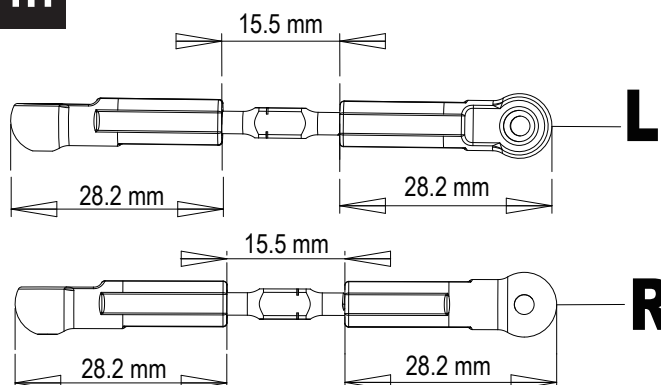
77430016 36mm Turnbuckles



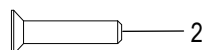
66400066 28.2mm



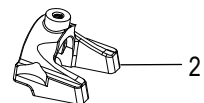
1:1



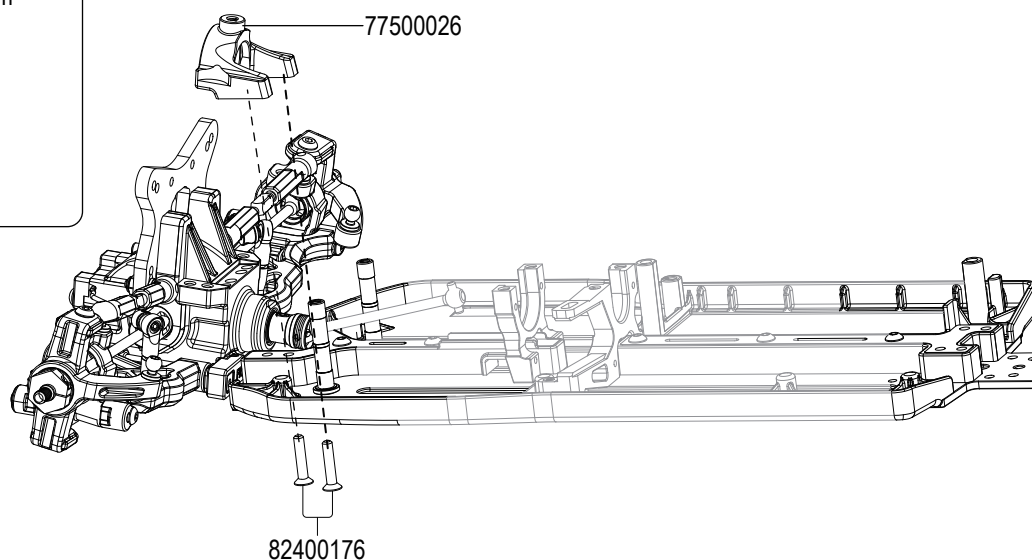
B5 Gearbox-Reinforcement (Front)



82400176 FHCS 3x15mm



77500026





C1 Rear Assembly RF Suspension Mount

4
80400046 BHCS M3x10mm

4
80400206 BHCS M3x12mm

2
82400016 FHCS M3x6mm

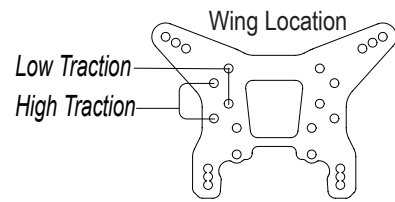
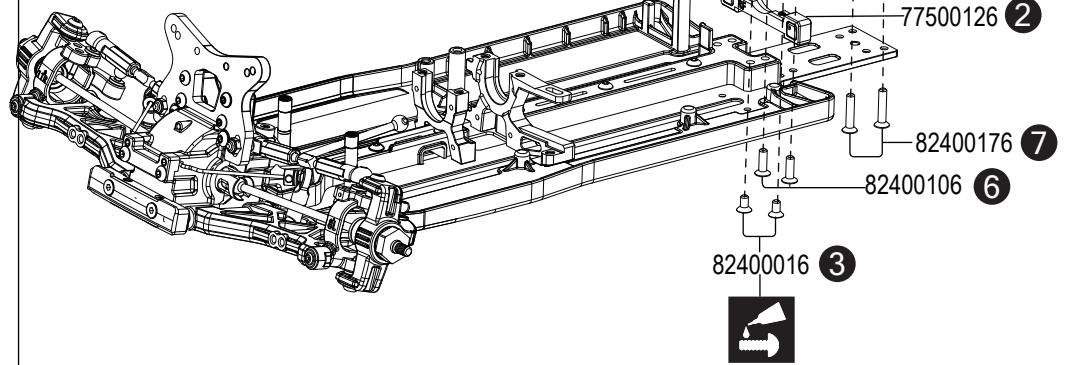
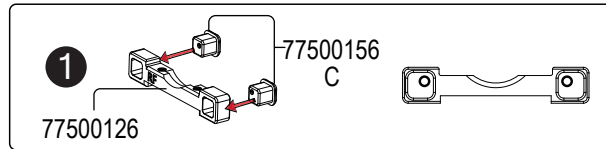
2
82400106 FHCS M3x10mm

2
82400176 FHCS M3x15mm

1
77500036

1
77500126 RF

2
68480106

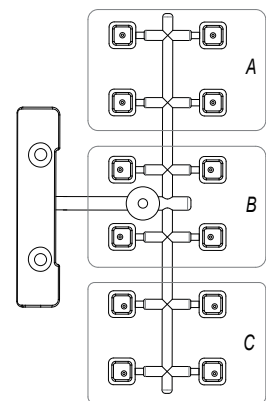


Need 3X12mm Screw

	RF	RR	TOE	SQUAT
FRONT HANGER INSERTS			+1.6	0
			+1.6	+0.7
			+1.6	+1.4
			+1.6	-0.7
			+1.6	0
			+1.6	+0.7
			+1.6	-1.4
			+1.6	-0.7
			+1.6	0

Note: (1) SB401 Plastic Antisquat

	RF	RR		
			+0.8	0
			0	0
			+2.5	0
			+1.6	0
			+0.8	0
			+3.0	0
			+2.5	0
			+1.5	0
			+3.5	+2



77500156
Suspension Hanger Insert



Part bags used.



Apply threadlocker
(screw cement)

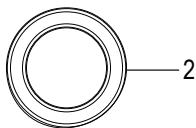


Assemble in the
specified order.

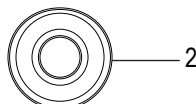
C2 Rear Left Hub Carrier Assembly



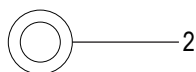
80400016 BHCSM2.5x4mm
(5.5mm)



89430030 10x15x4mm Bearing



89430020 5x13x4mm Bearing



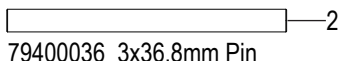
85440090 Shim 5x8x0.1mm



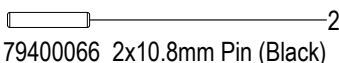
68440090 Aluminium Clamping Wheel
Hex 12mm x 4.2mm



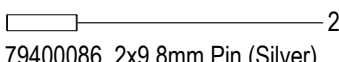
79480036 3x52mm Pin



79400036 3x36.8mm Pin



79400066 2x10.8mm Pin (Black)



79400086 2x9.8mm Pin (Silver)



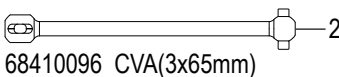
66401096



87400067 SHCS M2x6mm



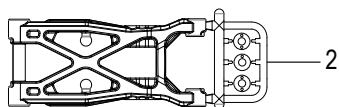
68470016 Aluminum CNC Rear Hub



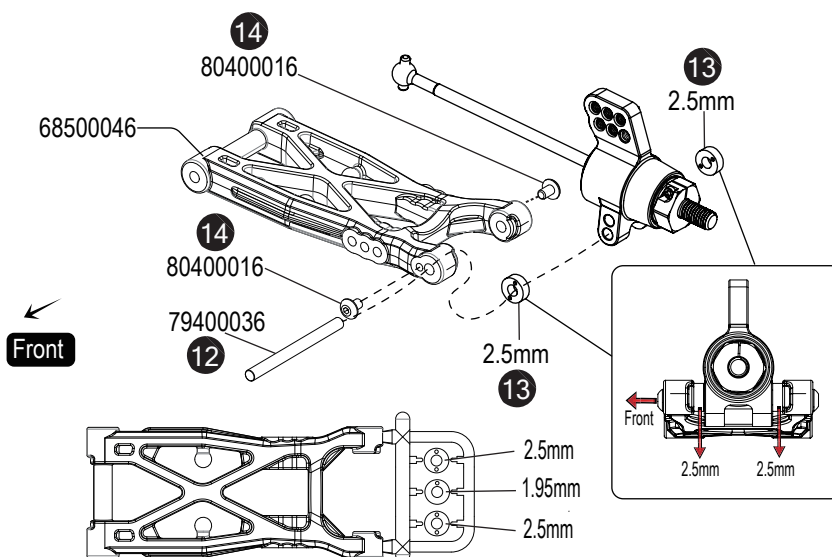
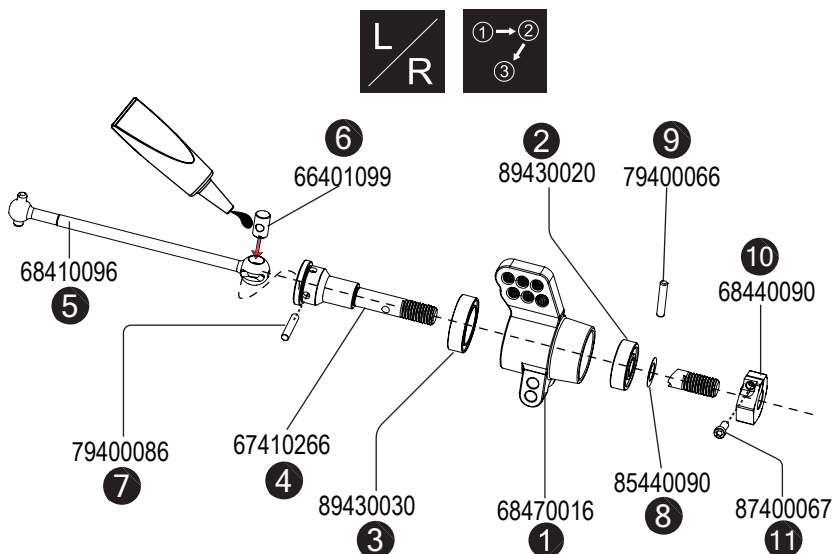
68410096 CVA(3x65mm)



67410266 Stub Axle m5

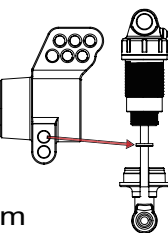


68500046 Rear Lower gull Wishbone



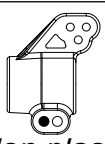
Precautions

When you use the upper hole, please add this spacer between the shafts
Up stop
+1mm shim
Aluminum



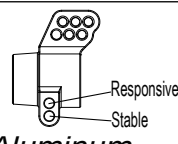
Corner Speed

Stable



Nylon plastic

Responsive



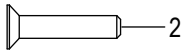
Aluminum



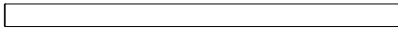
C3 Rear RR Suspension Mount



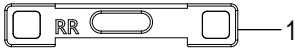
82400016 FHCS M3x6mm



82400176 FHCS M3x15mm

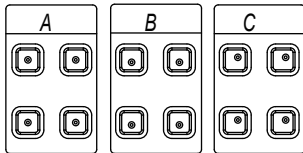


79480036 3x52mm Pin —2

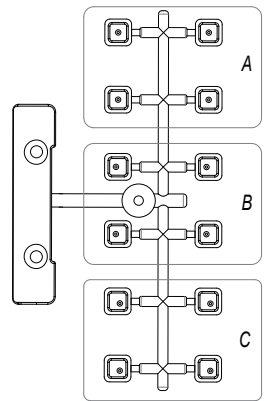


77500136 RR Suspension Mount

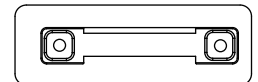
77500156



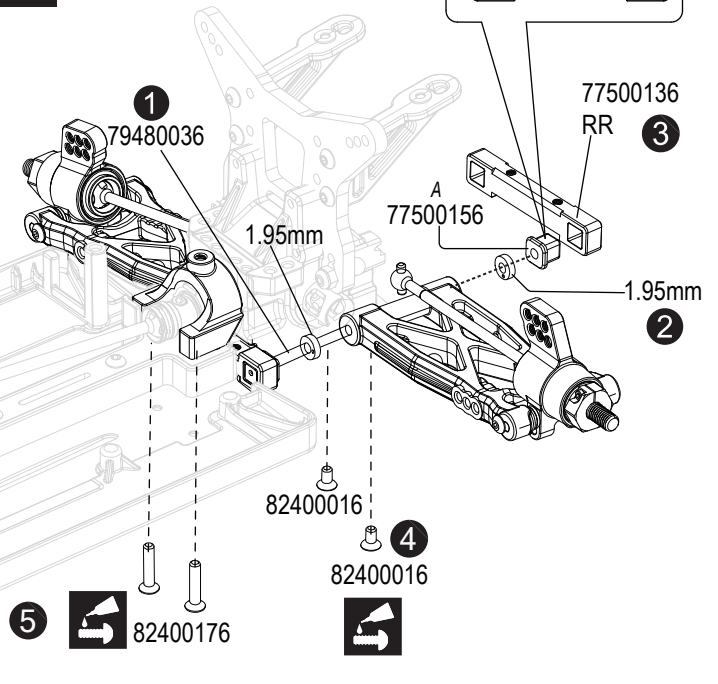
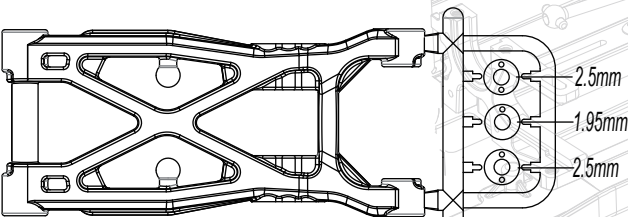
Note position



77500156
Suspension Hanger Insert

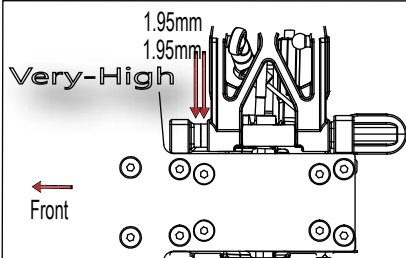


77500136
RR

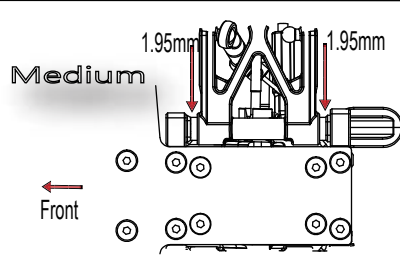


Track Conditions

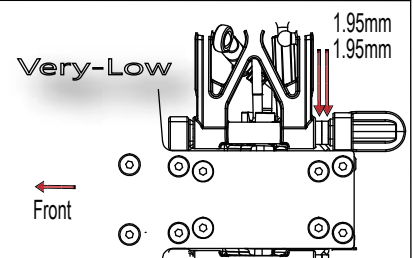
Traction



Traction



Traction



Part Bags used.



Tighten securely.



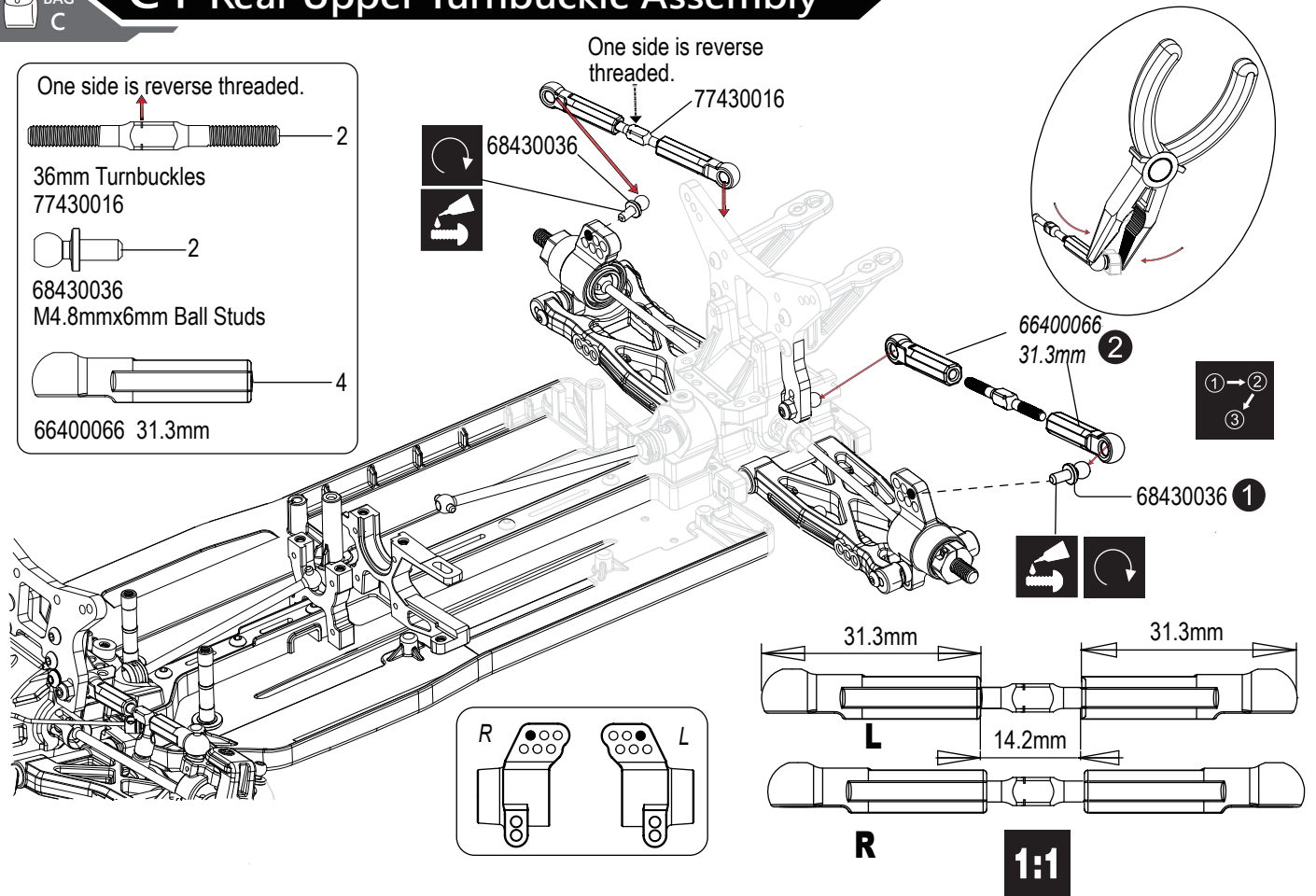
Apply threadlocker (screw cement)



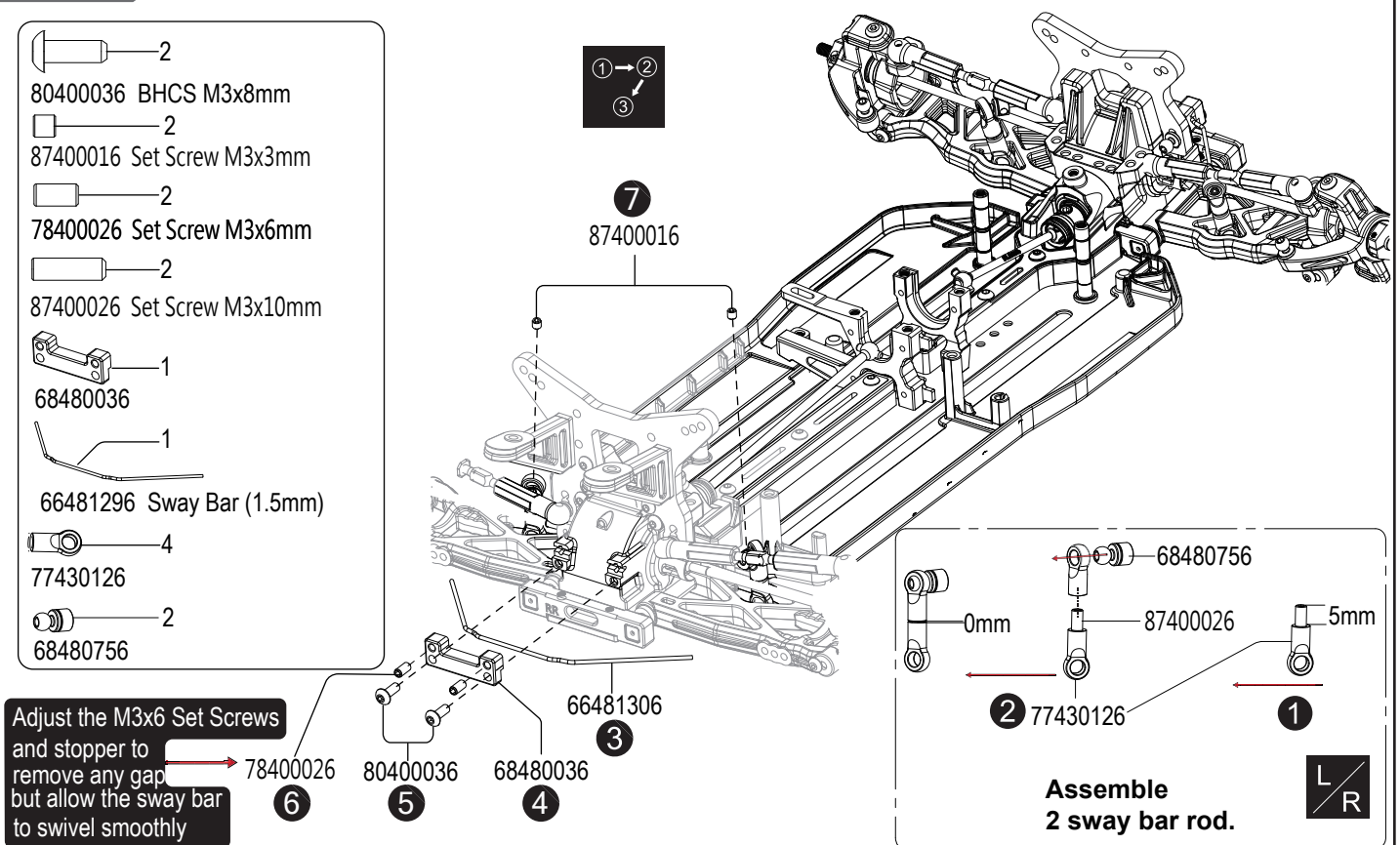
Assemble in the specified order.



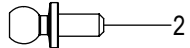
C4 Rear Upper Turnbuckle Assembly



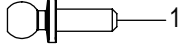
C5 Rear Sway Bar Installation



D1 Bell Crank Installation



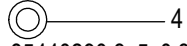
68430036 M4.8mmx6mm Ball Studs



68430046 M4.8mmx8mm Ball Studs



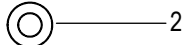
83400106 M3 Lock Nut



85440290 3x5x0.3mm Shim-Silver



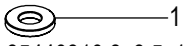
85440020 3x5x0.2mm Shim-Silver



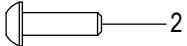
85440301 3x6x0.5mm Shim-Black



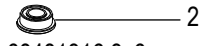
85440211 3x8x1mm Shim-Black



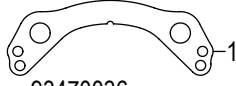
85440310 3x6.5x1mm Shim Silver Aluminum Spacer



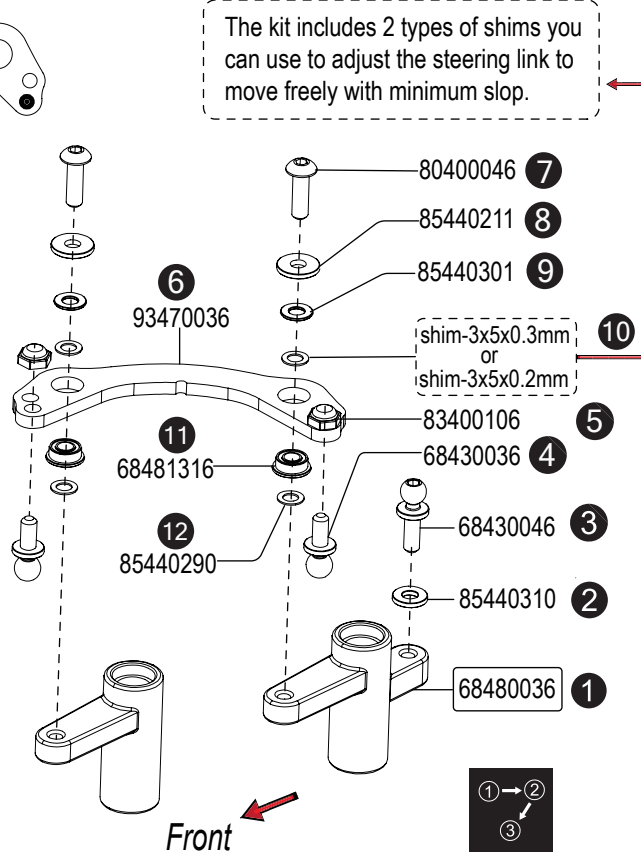
80400046 BHCS M3x10mm



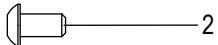
68481316 3x6mm Bearing



93470036 Carbon Ackerman Plat



D2 Steering



80400026 BHCS M3x6mm



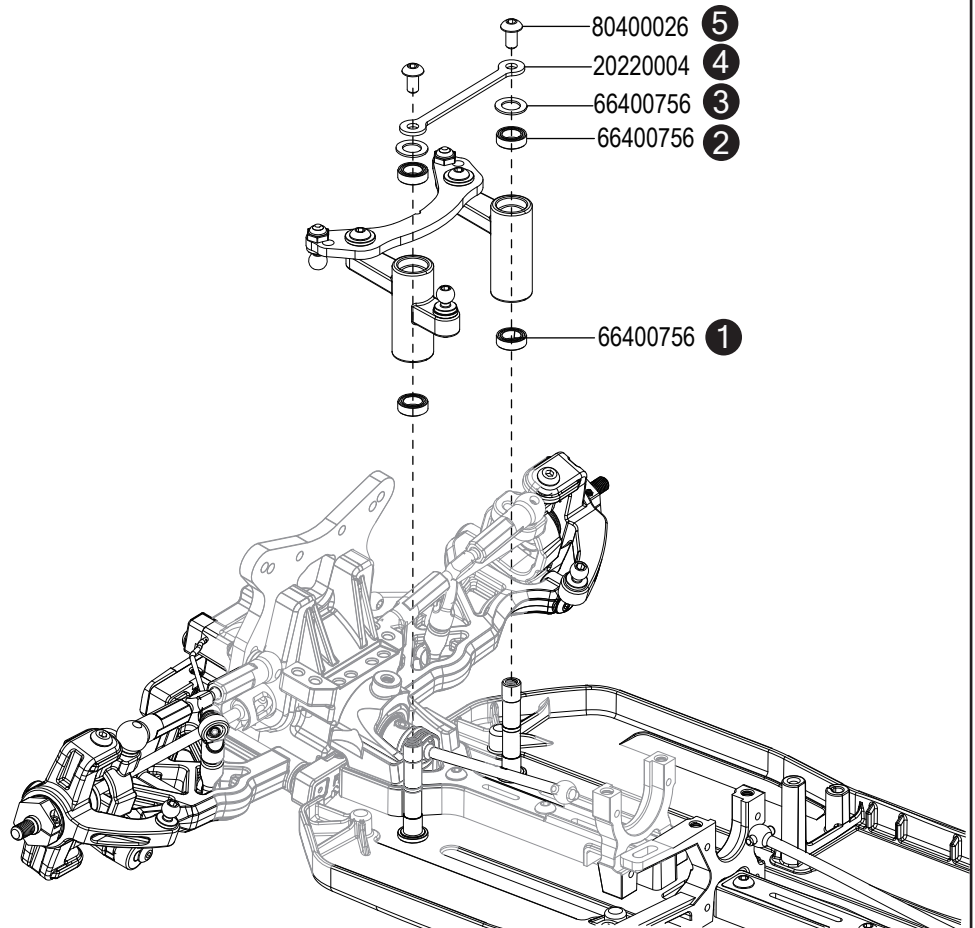
66400756
5x8x2.5mm Ball Bearing



20220004



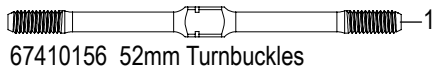
66400756
5x8x0.1mm Shim



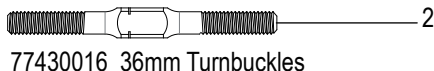


D3 Turnbuckle Assembly-Steering Rod

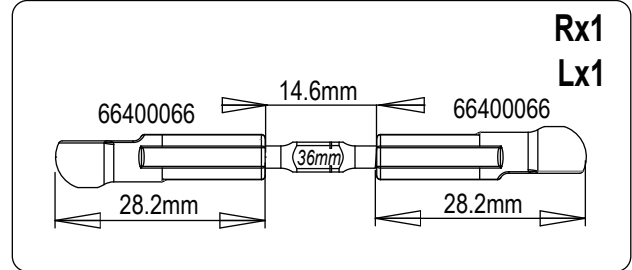
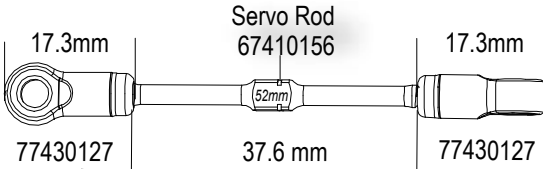
Steering Rod



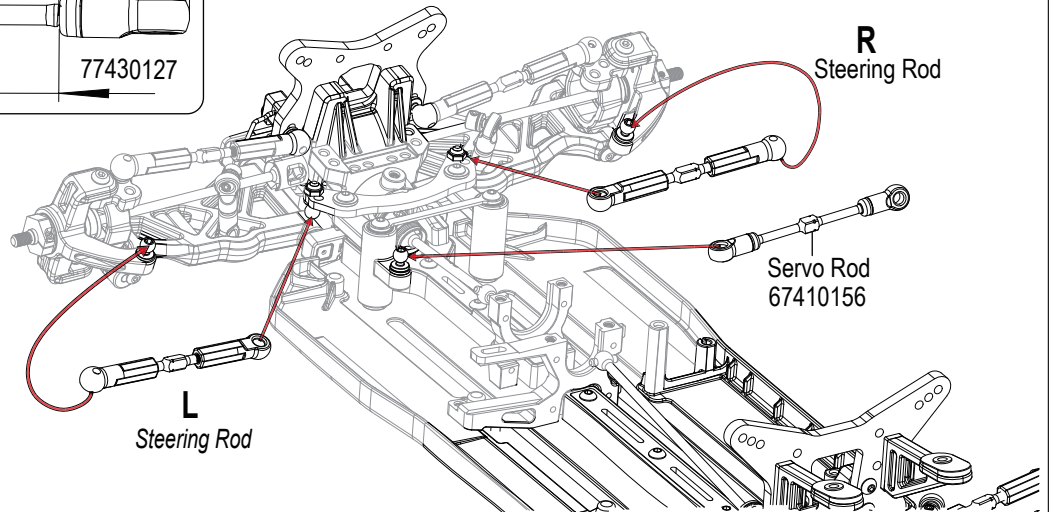
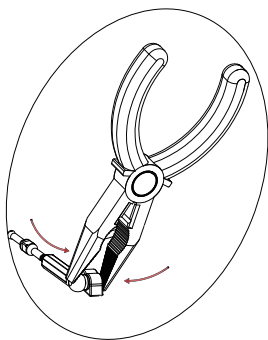
67410156 52mm Turnbuckles



77430016 36mm Turnbuckles

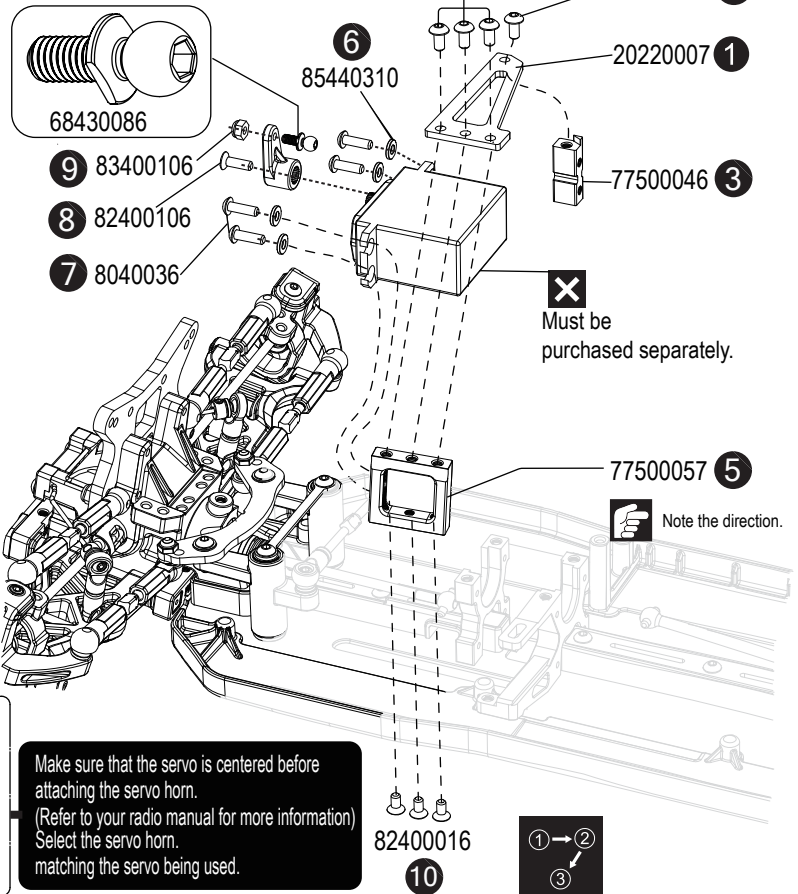


Rx1
Lx1

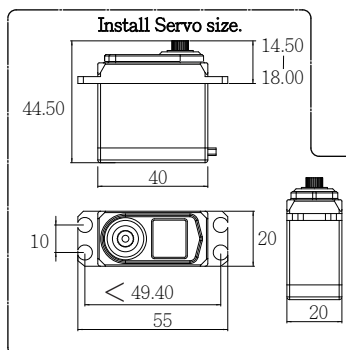
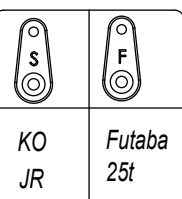


D4 Steering Servo

- | | |
|----------------------------|--|
| 1
82400015 BHCS M3x5mm | 1
83400026 M3 Lock Nut |
| 3
80400026 BHCS M3x6mm | 1
68430086 M4.8mmx6mm-0.8mm Ball Studs |
| 4
80400036 BHCS M3x8mm | 4
85440310 3x6.5x1mm Silver Aluminum Spacer |
| 1
82400106 FHCS M3x10mm | |
| 3
82400016 FHCS M3x6mm | |



Servo Installation
66402466



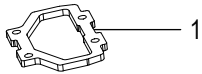
Make sure that the servo is centered before attaching the servo horn.
(Refer to your radio manual for more information)
Select the servo horn matching the servo being used.



D5 Center Mount Plate



80400026 BHCS M3x6mm



20220008

77500306-PR SB401-R Slipper Clutch Set

High traction

80400026

20220008

77480106

PR SB401-R 80T

Central Differential Set

Low traction

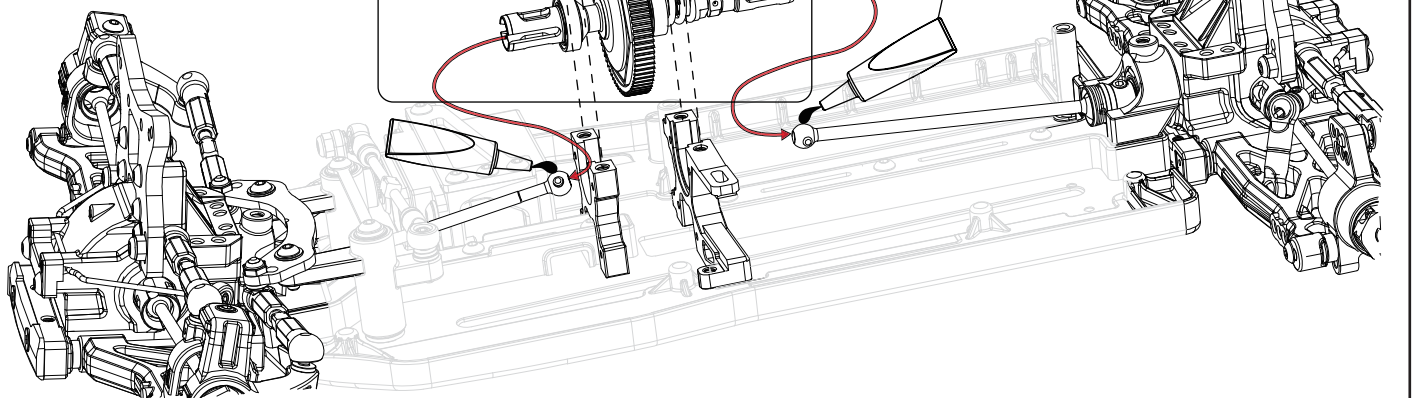
19460016

High Pressure Grease

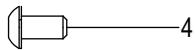
Rear

Slipper Clutch use
66402636-CVA
(3x78mm)

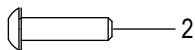
Differential use
77500326-CVA
(3x97mm)



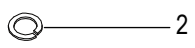
D6 Battery Hold Down Installation



80400026
BHCS M3x6mm



80400206
BHCS M3x12mm



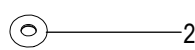
85440240 M3 antislip shims



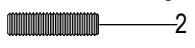
85440301 3x6x0.5mm Shim



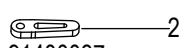
83400046 M3 Lock Nut



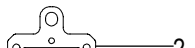
31430019
2x1.5mm O Rings



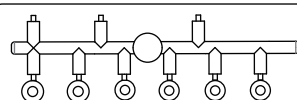
87400027
Set Screw M3x12mm



91400037



20220017



66430200 10

83400046

31430019

O Rings

80400026

20220017

80400206

85440240

85440301

66430200

1mm

91400037

(screw cement)

1

(screw cement)

2

3

4

5

6

7

8

9



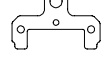
Set Screw M3x12mm

2x1.5mm O Rings

M3 Lock Nut

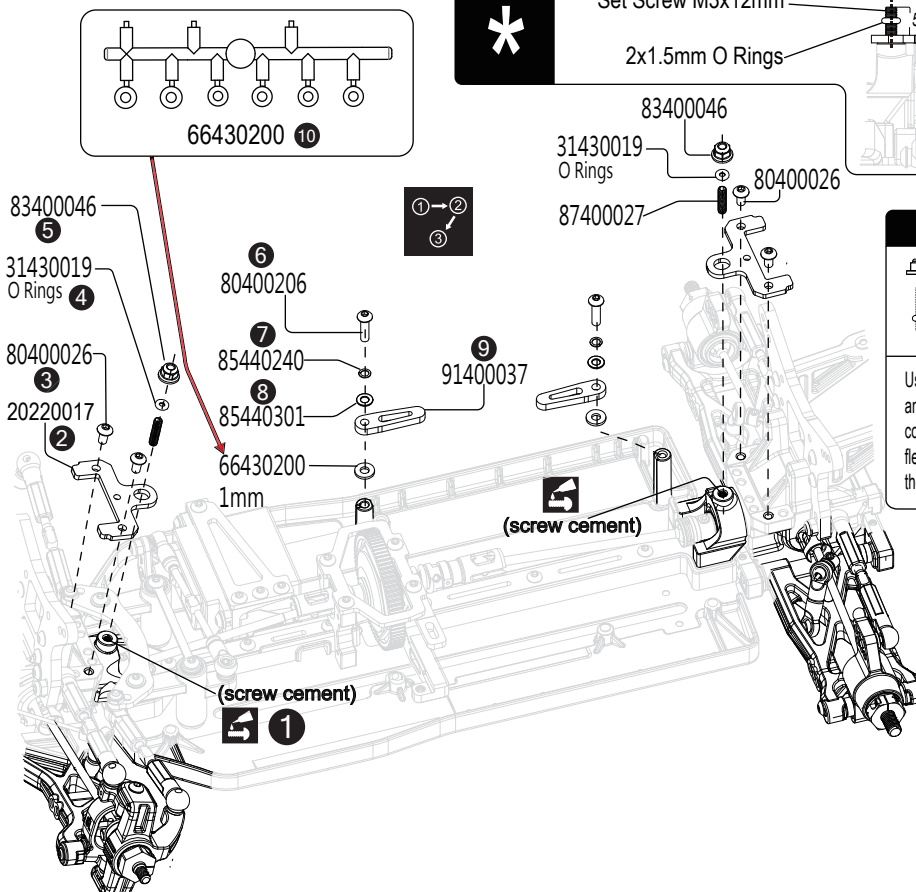
Do not over tighten.
Loosen the nut 1/2 to
1 turn to increase
chassis flex.

Corner Speed



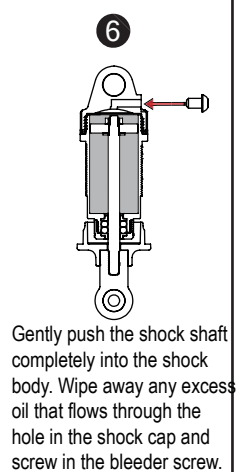
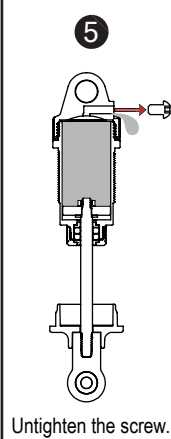
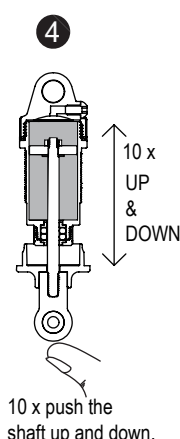
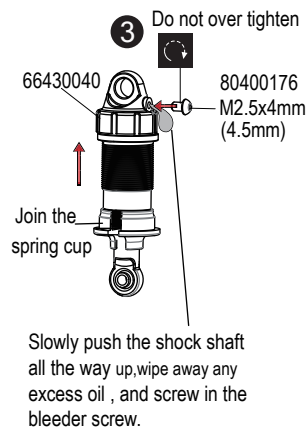
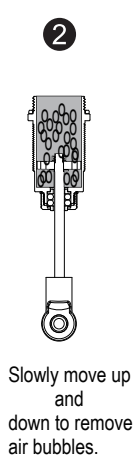
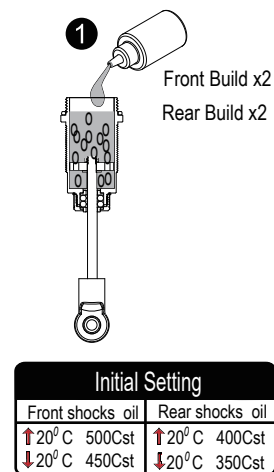
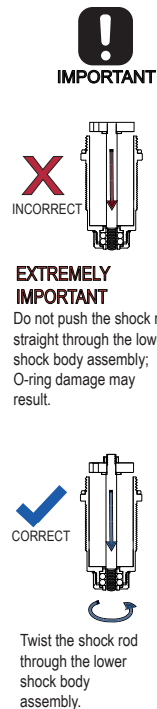
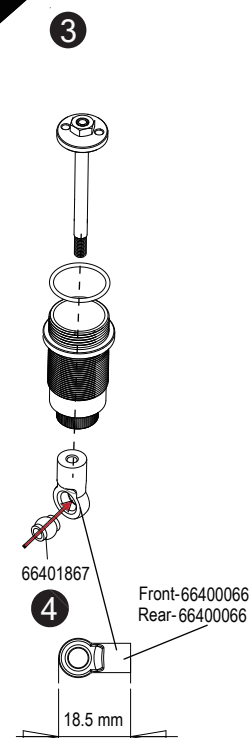
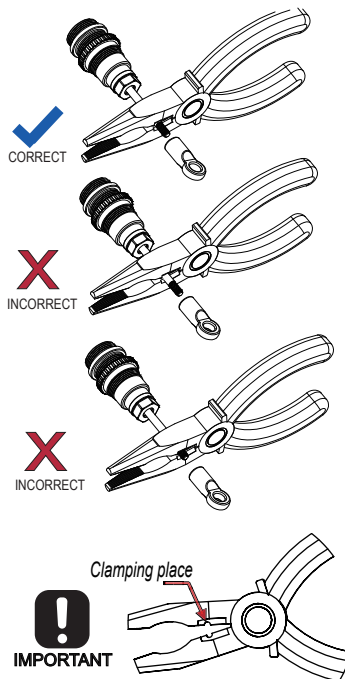
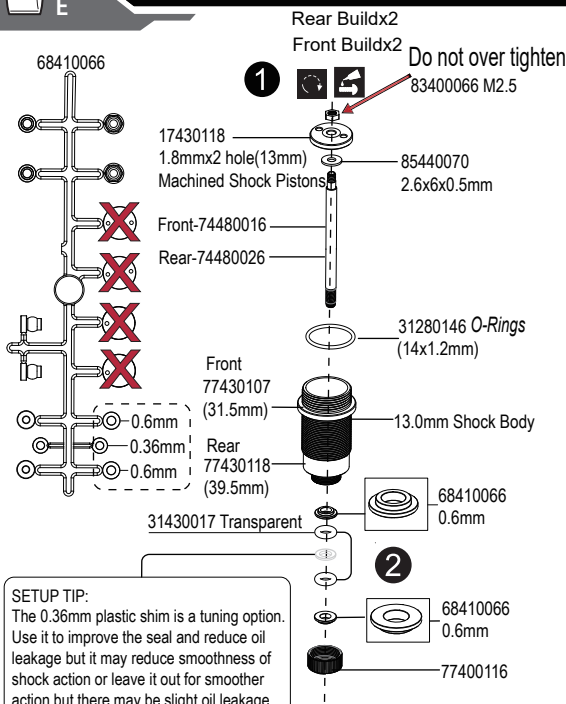
20220017

Use this setup option to adjust the
amount of chassis flex during
cornering. A looser setting increases
flex and in most conditions makes
the car easier to drive.



E1 Front & Rear Shock Assembly

BAG
E

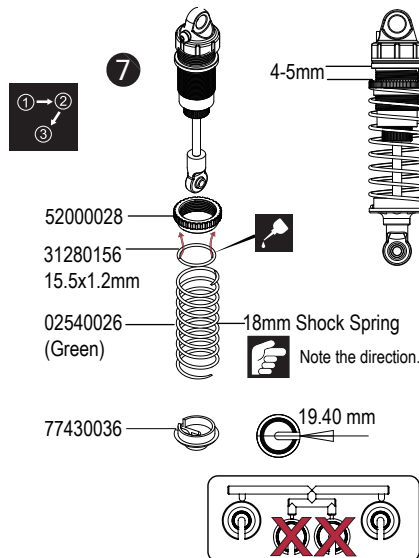


Option

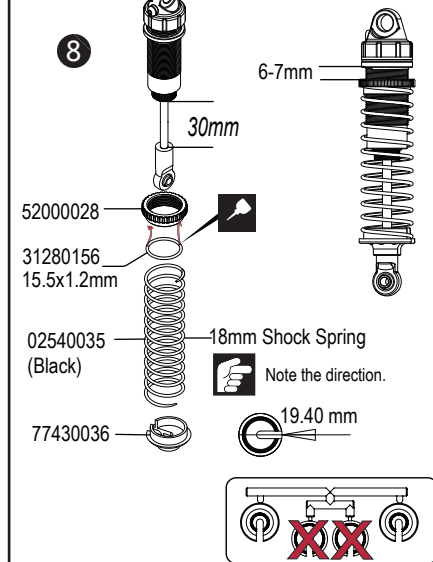
PR RACING			
PR Racing ID18mm Shock Spring			
PART NO: 02540002 Name: PR RACING Front Shock Set (18mm) (12) L 40mm			
PART NO:	Color	kg/mm	lbs/in
02540023	Red	0.063	3.53
02540024	Yellow	0.068	3.81
02540025	Green	0.075	4.20
02540026	Black	0.080	4.48
02540027	Blue+Red	0.085	4.76
02540028	white+yellow	0.090	5.04

PR Racing ID18mm Shock Spring			
PART NO: 02540003 Name: PR RACING Rear Shock Set (18mm) (12) L 55mm			
PART NO:	Color	kg/mm	lbs/in
02540032	Red	0.040	2.24
02540033	Yellow	0.045	2.52
02540034	Green	0.050	2.80
02540035	Black	0.055	3.08
02540036	Blue+Red	0.060	3.36
02540037	white+yellow	0.065	3.64

Front Build x2



Rear Build x2



Part bags used.



Apply threadlocker
(screw cement)



Do not over tighten.



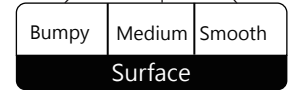
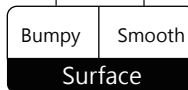
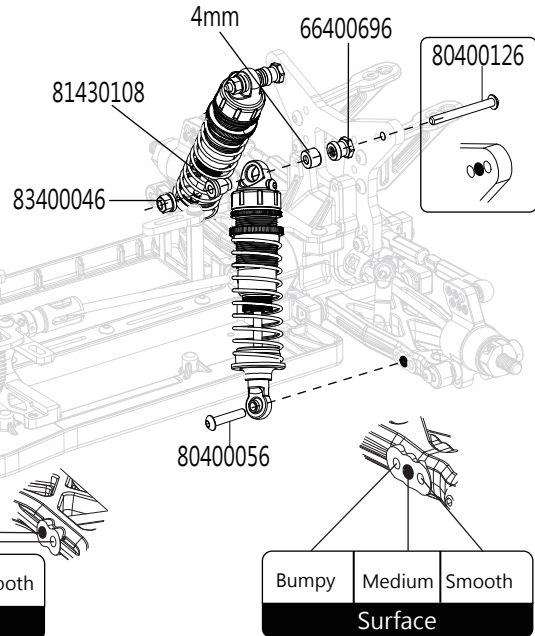
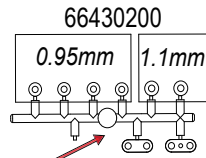
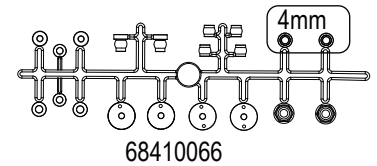
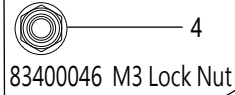
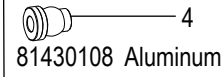
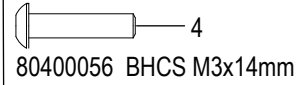
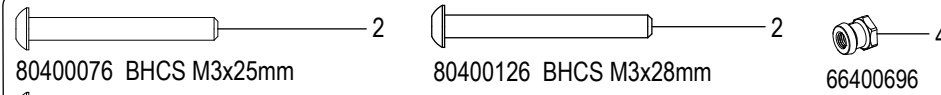
Apply oil.



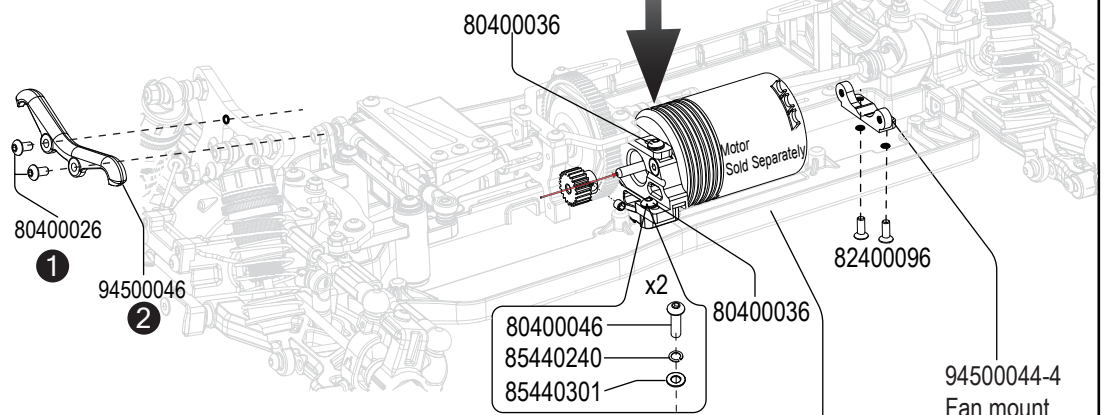
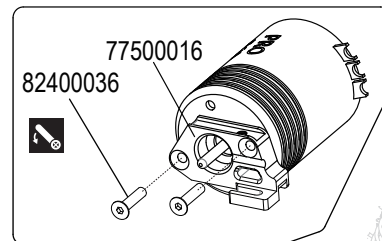
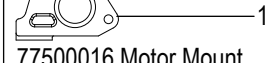
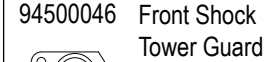
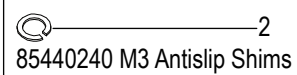
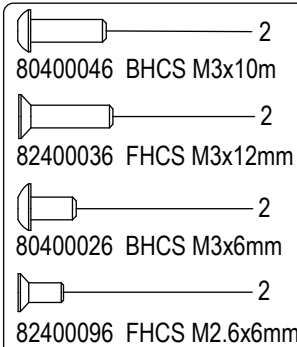
Note the direction.



E2 Front & Rear Shock Installation



E3 Motor Installation



Remove Lateral Plate (L) when installing motor



 2
 82400026 FHCS M3x8mm

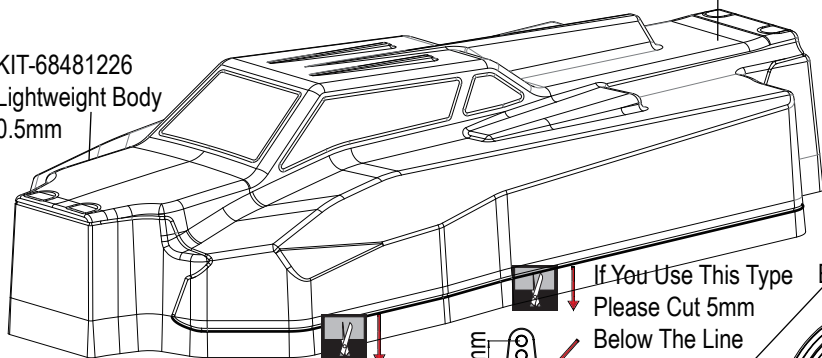
 2
 82400036 FHCS M3x12mm

 2
 83400076
 M4 Serrated flange nut

 2
 83400117
 M5 Nut with 7mm Hex Steel

- OP-68481076
Body-0.8mm

KIT-68481226
Lightweight Body
0.5mm



If You Use This Type
Please Cut 1mm
Below The Line

14.20 mm

18 mm

If You Use This Type
Please Cut 5mm
Below The Line

77500276
Battery separator

82400026

66401606 (0.8mm)

tely

68480036

68400316 _
Rear Wheel

98400016
Antenna Tube

99400056-Velcro Tape

68400326 —
Front Wheel

M4 Serrated flange nut
7mm Hex (Steel)

23



Part Bags used.



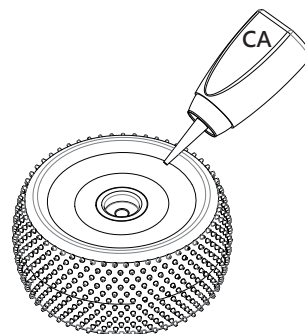
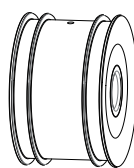
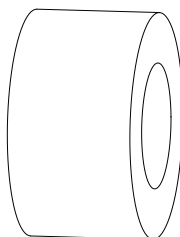
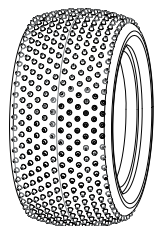
Ensure smooth non-binding movement while assembling.



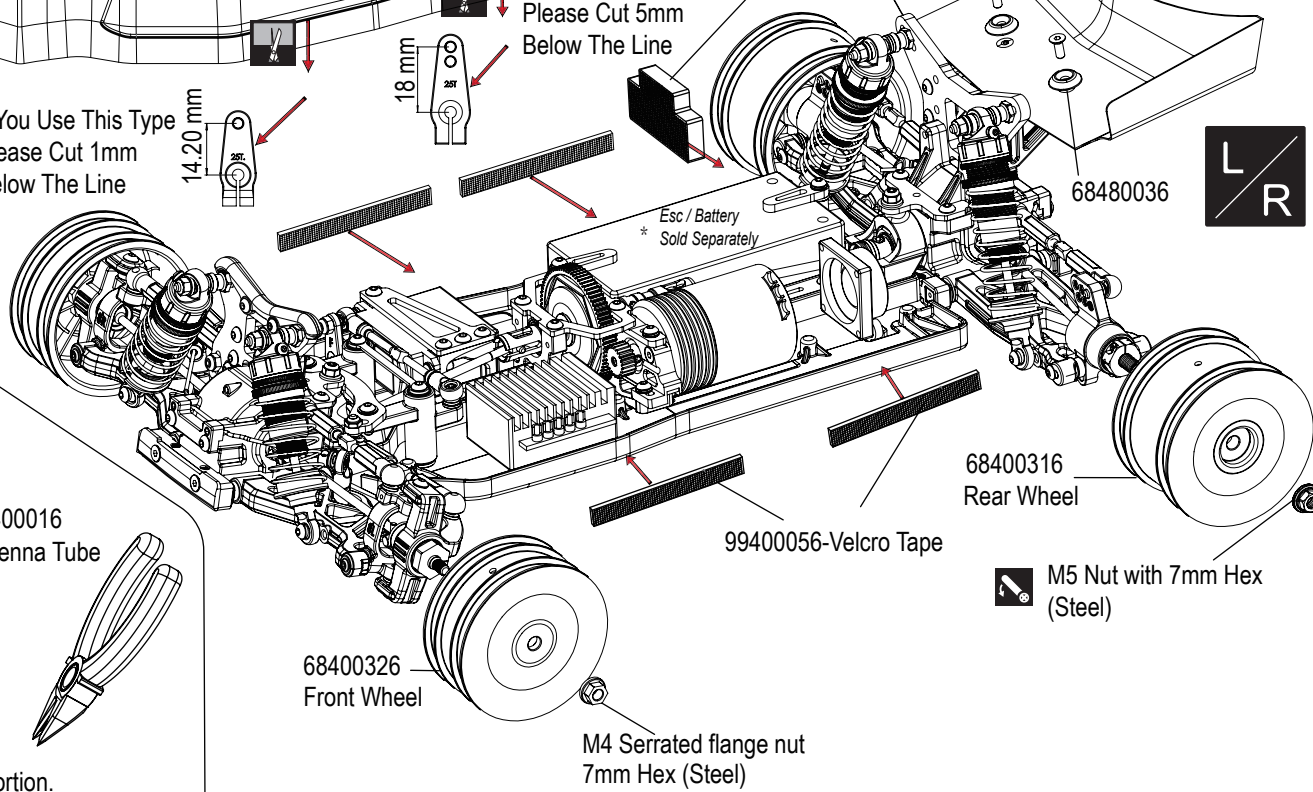
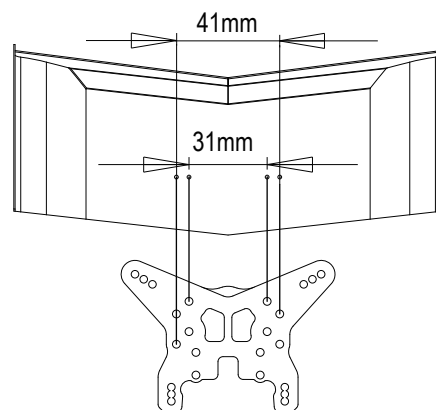
Cut off shaded portion.



Assemble left and right sides the same way.



- Place the tire insert into the tire and tire into the wheel.
 - Tire and insert (Sold separately)
 - CA(Cyanoacrylate) glue sold separately.
 - Pull the sidewall of the tire slightly away from the rim Apply CA(Cyanoacrylate) glue in between the tire bead and rim
- 41mm



66402697 1PCS	66400286 1PCS	85430016 Aluminum Wing Mount Washer 2PCS	68481076 R- Body 0.8mm 1PCS
81430106 Front Rear Steel Shock Stand off Set 1Set	66402256 Servo Saver Post 1PCS	66402266 Servo Saver Nut 1PCS	68480526 Servo Saver Spring 1PCS
66481256 CNC Aluminium 1Set	90440010 Rear 6.2mm 2PCS	68480976 Aluminum 11 Degree SB401 Front Spindle Carrier R-L 1pr	77480160 Aluminum Steering Knuckles 1PR
94500011 PRSB401 Shock Plate +1mm (4)	62540002 PR RACING Front Shock Set (18mm) 6 pr	62540003 PR RACING Front Shock Set (18mm) 6 pr	77510020 FR Suspension Mount -2mm narrower 1pcs
77510010 FF Suspension Mount -2mm narrower 1PCS	77510030 SB401R FF-1mm	77510040 SB401R FR-1mm	68430090 Aluminum Servo Horn 14.2mm 1pcs 25T
77500076 Graphite Front set Hard 2PCS	77500336 Graphite Front set Hard 2PCS	77480136 Sway Bar Set 1SET	17430117 PRMachined Shock Pistons (13mm) 1.7mmx3 Hole (4)
94500029 PR RACING 13x31.5mm Front Shock Set (18mm spring) (2)	94500030 PR RACING 13x39.5mm Rear Shock Set (18mm spring)(2)	77500065 PR SB401-R Front One-Way seat (1)	77480126 SB401 R Differential Assembly (1)

PR SB401 PR RACING TYPE R

2026 PR SB401-R 1/10 Electric 4wd Off Road Buggy Kit
(Center Diff+Sliper Clutch Version) ITEM NO:77500296

Race		Name	
Track		Date	
Temperature	C	F	Best Lap Time
			sec

FRONT

Front Upper Turnbuckle Camber mm

Steering Rod TOE In Out mm

mm ALU C-Hub Shim

0.8mm

1.1mm

2.3mm

Anti-Roll mm

Offset

Silver 4.2 mm

Black mm

Caster

5°

8°

11°

Shock Body

13.0mm

12.8mm

Pom Shim

0.36mm

Oil	
Pistons	Holes mm
Downstop	Shim mm
Up stop	Shim mm
Length	mm
O Rings	☐ transparent ☐ Red

Camber	
Ride Height	mm
TOE In Out	
Type R Shock Spring	

REAR

Aluminum

Aluminum

Anti-Roll mm

Nylon plastic

mm Camber

Offset

Silver 4.2 mm

Black 5.2 mm

Brass mm

Shock Body

13.0mm

12.8mm

Pom Shim

0.36mm

Oil	
Pistons	Holes mm
Downstop	Shim mm
Up stop	Shim mm
Length	mm
O Rings	☐ transparent ☐ Red

Camber	
Ride Height	mm
TOE In	
Type R Shock Spring	

Motor	
Spur Gera	T
Pinion	T
Esc	
Servo	☐ Std. Profile Servo ☐ Low Profile Servo
Battery Size	☐ Std. Short ☐ Low Short
Front	Radio System
Tire	ST-DR
Inserts	ST-EXP
Wheels	ST-Speed
Rear	Radio System
Tire	TH-DR
Inserts	TH-EXP
Wheels	TH-Speed
Body	☐ Standard ☐ Light

Aluminum Steering Knuckles

A2

A3

A4

Locknut

Relaxnut

Servo Horn op standard

Front

Rear

Battery Spacer

Sliper Clutch Spring

3.6kg/mm

7.0kg/mm

Cooling Fan

Locknut

Relaxnut

mm Arm Shim

mm Arm Shim

mm Rear Hub Shim

mm Rear Hub Shim

wing Length mm

Wing Thickness mm

Wing Cutting Line mm

Apply CA Glue if needed

Cut pins

CNC Aluminium

66480306 Sliper Pad 11mm (Included)

66430016 Sliper Pad 19mm

66481386 LCF Sliper Pads 11mm

66481396 LCF Sliper Pads 19mm

Front Oil #

Rear Oil #

Central Differential Oil #

2/Gear

4/Gear

2/Gear

4/Gear

Wishbone	
Front	Rear
Medium Hardness	High Hardness Graphite

Pinion Spur Gear

66480986	PR Racing 48P Pinion (3.17mm ID) (18T)*1pcs	66481576	PR Racing 48P Pinion (3.17mm ID) (26T)*1pcs
66480996	PR Racing 48P Pinion (3.17mm ID) (19T)*1pcs	66481586	PR Racing 48P Pinion (3.17mm ID) (27T)*1pcs
66481006	PR Racing 48P Pinion (3.17mm ID) (20T)*1pcs	66481596	PR Racing 48P Pinion (3.17mm ID) (28T)*1pcs
66400556	PR Racing 48P Pinion (3.17mm ID) (21T)*1pcs	66481606	PR Racing 48P Pinion (3.17mm ID) (29T)*1pcs
66480096	PR Racing 48P Pinion (3.17mm ID) (22T)*1pcs	66481616	PR Racing 48P Pinion (3.17mm ID) (30T)*1pcs
66480106	PR Racing 48P Pinion (3.17mm ID) (23T)*1pcs	66481626	PR Racing 48P Pinion (3.17mm ID) (31T)*1pcs
66480116	PR Racing 48P Pinion (3.17mm ID) (24T)*1pcs	66481636	PR Racing 48P Pinion (3.17mm ID) (32T)*1pcs
66481566	PR Racing 48P Pinion (3.17mm ID) (25T)*1pcs	66481646	PR Racing 48P Pinion (3.17mm ID) (33T)*1pcs

68000100	73T Spur Gear (For SB401)*1pcs
68400196	75T Spur Gear (For SB401)*1pcs
68400206	77T Spur Gear (For SB401)*1pcs
68400216	81T Spur Gear (For SB401)*1pcs

Gear Ratio Chart-Internal Gear Ratio 2.6:1
Pinion gears they will fit.

Pinion	17T	18T	19T	20T	21T	22T	23T	24T	25T	26T	27T	28T	29T	30T
73T(Spur Gear)					9.04	8.63	8.25	7.91	7.59	7.30	7.03	6.78	6.54	6.33
75T(Spur Gear)				9.75	9.29	8.86	8.48	8.13	7.80	7.50	7.22	6.96	6.72	
77T(Spur Gear)			10.54	10.01	9.53	9.10	8.70	8.34	8.01	7.70	7.41	7.15		
80T(Spur Gear)		11.56	10.95	10.40	9.90	9.45	9.04	8.67	8.32	8.00	7.70			
81T(Spur Gear)	12.39	11.70	11.08	10.53	10.03	9.57	9.16	8.78	8.42	8.10				

PRSB401

PR RACING
TYPE **R**

