

PR SB401R-T

PR SB401R-T 1/10 ELECTRIC 4WD OFF-ROAD STADIUM TRUCK / TRUGGY
ITEM NO:77500346



PR racing has taken all the refinements and changes from the 401R buggy, and applied them to create the 401R-T! On top of that we have made further changes specifically for this vehicle to be the most capable, adjustable, durable competition ST 4x4/ Truggy on the market out of the box! From the aggressive "Low Center of gravity" truggy body. To the "Type R" style shocks and towers. The 401R-T is ready to dominate on the very first lap!

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.

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Special features

CHASSIS:

Hard anodized 2mm 7075-T6 Narrow chassis with side pods deck of added durability.
Alloy/carbon floating servo mount
Type R low center of gravity Truggy style body

TRANSMISSION

Top loading Center gear differential with ultra hard cups

Updated gear ratio

Longer front and rear gear diff out drives for more droop

SUSPENSION AND STEERING

12.75mm "LCG" Type R Shocks

Type R "Low mount" Carbon fiber towers

Insert style suspension blocks

5 Degree caster blocks

Composite rear hubs with extra pin location for added width adjustability

Gullwing rear arms

New material "grey" ballcups

High tensile steel turnbuckles

SPECIFICATIONS

Type: 1/10th 4wd off-road stadium truck/ truggy

Power: Electric

Wheelbase: Adjustable 284mm to 290mm

Width: Front 325mm Rear 325mm

Gear Ratio: 3:9:1

Weight: 1895grams "Race ready" varies

Hardware: Full metric

Bearings: Sealed metal ball bearings

Wheels: 12mm Hex

Kit: Assembly required

ITEM REQUIRED TO COMPLETE

2 Channel surface frequency radio system

2S LiPo battery & compatible LiPo charger

1/10th ESC, 540 brushless motor, pinion gear

High speed servo

1/10th Tires and inserts

Tools, paint for polycarbonate body, tire glue, and threadlock

Silicon diff and shock oil



● BEFORE INSTALLATION	01
● BAG A	03-07
A1-Main Chassis Assembly- Chassis Brace Installation	
A2-Gear Diff Assembly	
A3-Center Diff	
A4-Gear Box Assembly	
A5 Rear Central Transmission	
● BAG B	08-11
B1-Suspension Mount Installation	
B2-Front Hub Carrier Assembly(Left Side)	
B3-Suspension Mount Installation-Sway Bar Installation	
B4-Front Upper Turnbuckle Assembly	
● BAG C	12-15
C1 RF Suspension Mount	
C2-3-Rear Left Hub Carrier Assmebly	
C4-Rear Upper Rod -Turnbuckle Assembly	
C5-Sway Bar Installation	
● BAG D	16-18
D1-Bell Crank Installation	
D2- Steering	
D3-Turnbuckle Assembly-Steering Rod -Servo Rod	
D4-Servo Installation	
D5-Center Mount Plate	
D6-Battery Plate Installation	
● BAG E	19-21
E1-Front & Rear Shock Assembly-R	
E2-Front & Rear Shock Installation	
E3-Motor Installation	
E4-Mounting Tires, Wheel Installation	
● EXPLOSION PICTURE	22
● SETUP SHEET	23

BEFORE INSTALLATION

- 1 Read through the instruction manual before installation in order to have an overview of what to do.
- 2 Check if there is any missing bags or defective parts, if there is, please contact our local dealer or our PR Distributor.
- 3 Symbols used throughout the instruction manual, comprises of:



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.



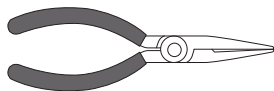
Apply oil.

- 4 This kit contains screws and hardware in different metric sizes and shapes. Before using them, check the screws on the true-to-scale diagrams on the left side in each assembly step. Some screw are extras.

TOOLS REQUIRED

CAUTION: Handle tools carefully!

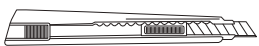
- Needle Nose Pliers



- Awl



- Sharp Hobby Knife



- Grease



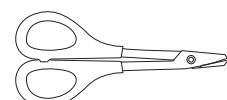
- Wire Cutters



- Screw Cement

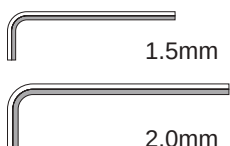


- Round Cutter & Sander



For trimming bodies Cutting along curved lines was never so easy!

- Hex Wrench



- Ball Differential Grease



- SP Knife Edge Reamer

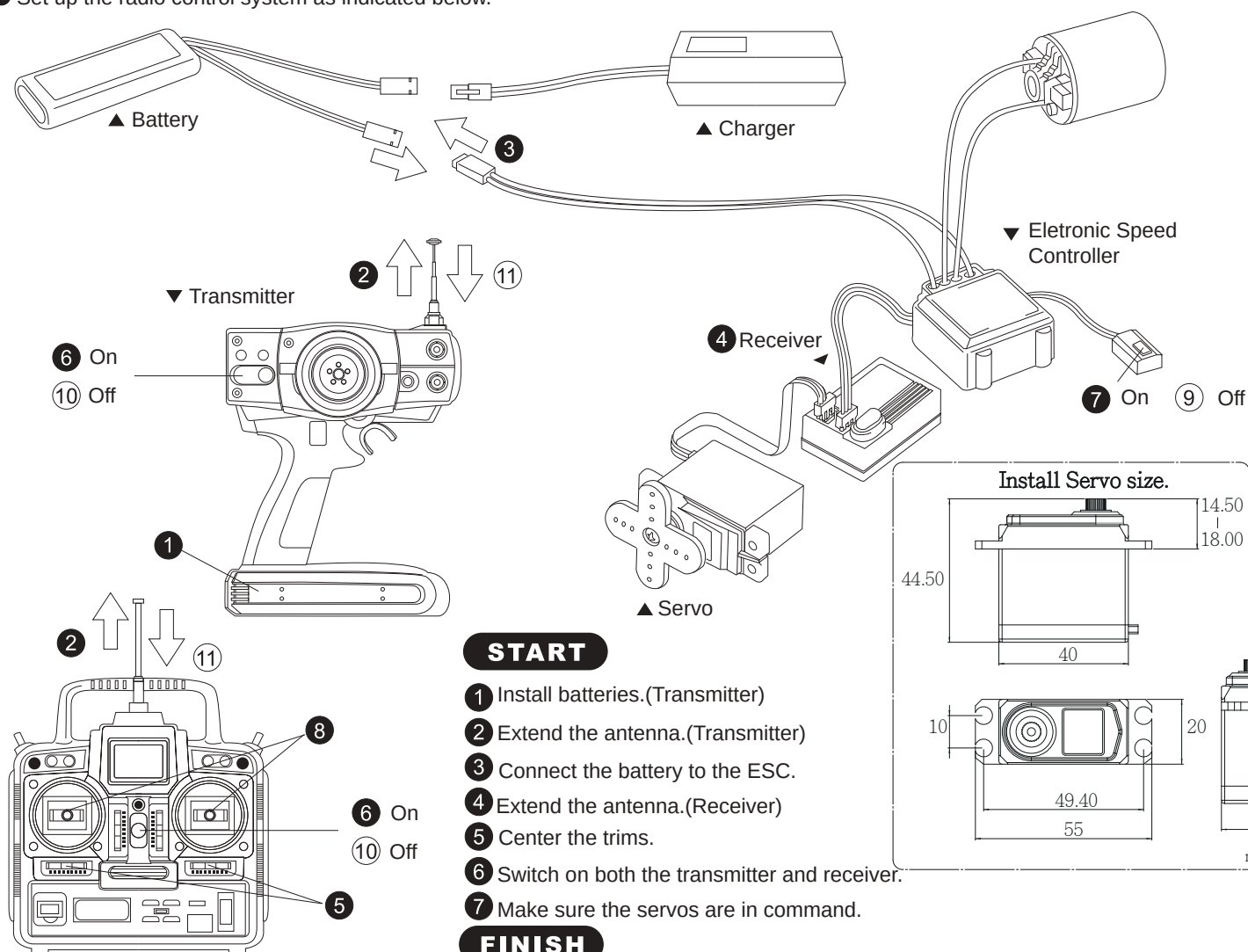


Do not pre-drill as precise drilling of 1mm to 15mm holes can be performed after body shell painted.

RADIO PREPARATION

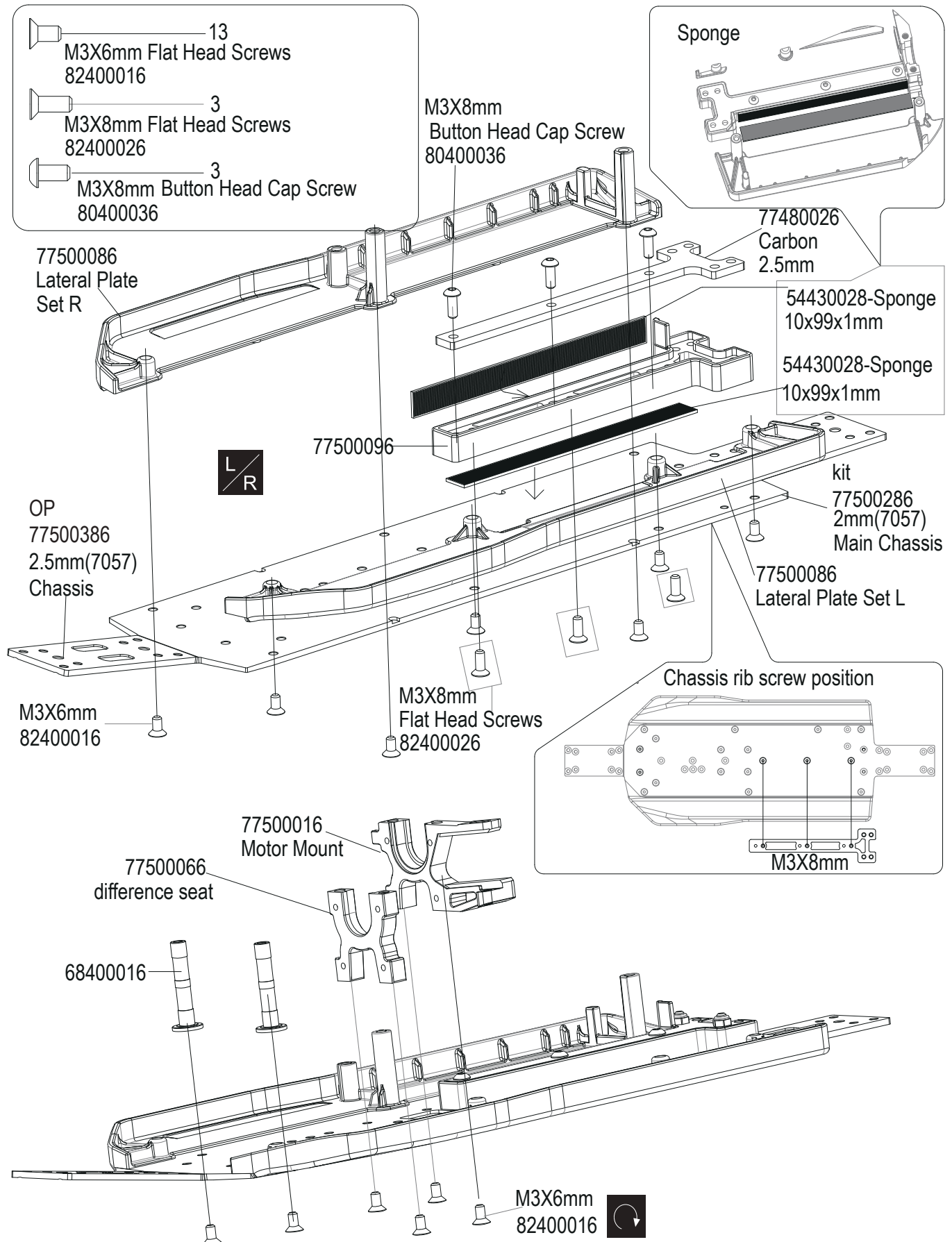
- A new battery must be charged before it is used. Refer to the charger instruction manual for charging.

- Set up the radio control system as indicated below.





A1 Chassis Brace Installation Main Chassis Assembly





A2 Gear Diff Assembly

8
M2.6X10mm Flat Head Screw
82400166

4
5X8x0.8mm Shim
85440170

8
4X10x0.15mm Shim
85440160

4
3.5mm
85400016

66480336
14T

85400016

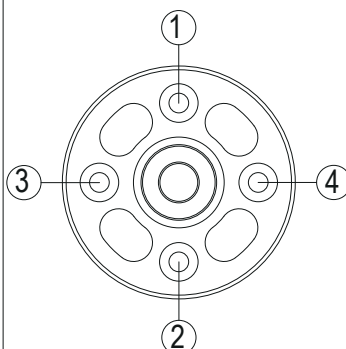
(5x8x0.8)washer
85440170

31450016
O-ring

68480596

請照順序對角鎖緊差速上蓋螺絲

①→②→③→④



Tighten equally in the order of

①→② then ③→④



66481366
+1.6mm

82400166
M2.6x10mm

90500046-SB401R-T
(39T)

31450016-O-ring-5x1.5mm

85440170-5x8x0.8washer

85400016

77500226

66480336

66480336
9T

85440160
4X10X0.15
(Shim)

66480336
9T

85440160
4X10X0.15
(Shim)

66480356

66481366
+1.6mm

x2

Assemble 1 front and 1 rear

Diff Oil
Sillcon Oil



After first drive
adjust
for track conditions

SILICON DIFF OIL

10000 F

7000 R

將差速油注入差速殼內至8分滿

80% oil max

Pour in the oil until the gears are
just submerged in oil.



Part Bags used.



Apply oil.



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



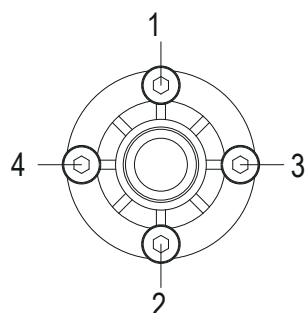
Assemble in the
specified order.

A3 Center Diff

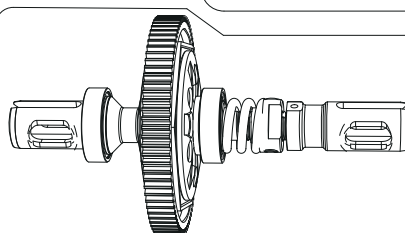
4
M2.6X10mm Flat Head Hex Screw
82400166

2
5X8x0.8mm Washer
85440170

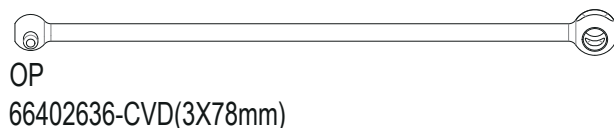
4
4X8x0.25mm Washer
85440150



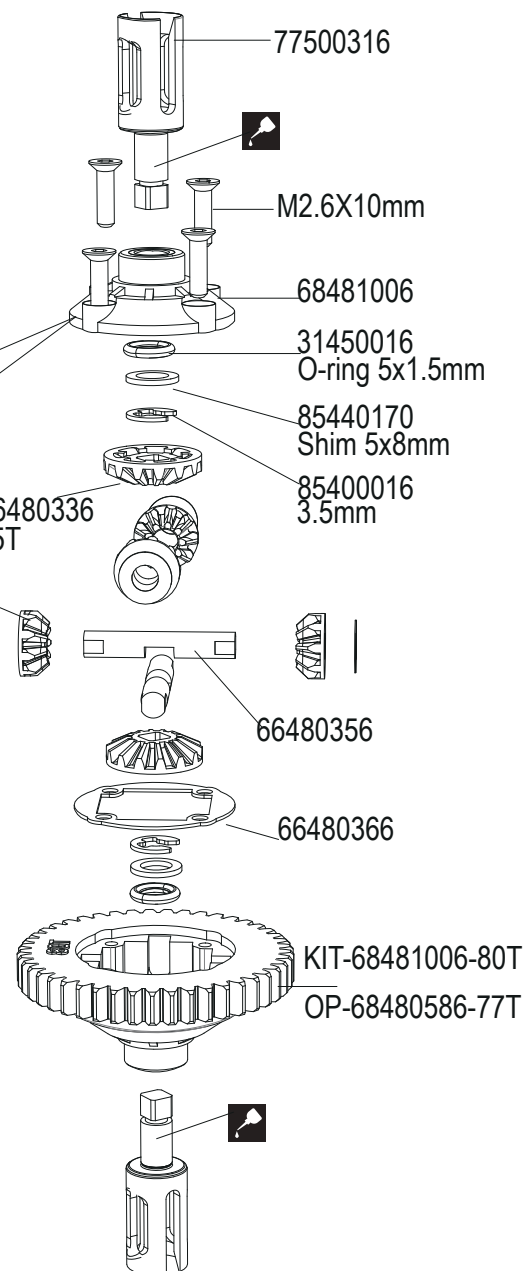
請照順序對角鎖緊差速上蓋螺絲
1 → 2 3 → 4
Tighten equally in the order of
1 → 2 then 3 4



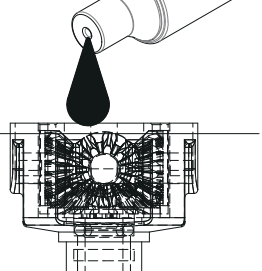
OP
77500306
SB401R-Slipper Set



OP
66402636-CVD(3X78mm)



Diff Oil



After first drive
adjust
for track conditions
SILICON DIFF OIL

30000

將差速油注入差速殼內至8分滿

Pour in the oil until the gears are
just submerged in oil.

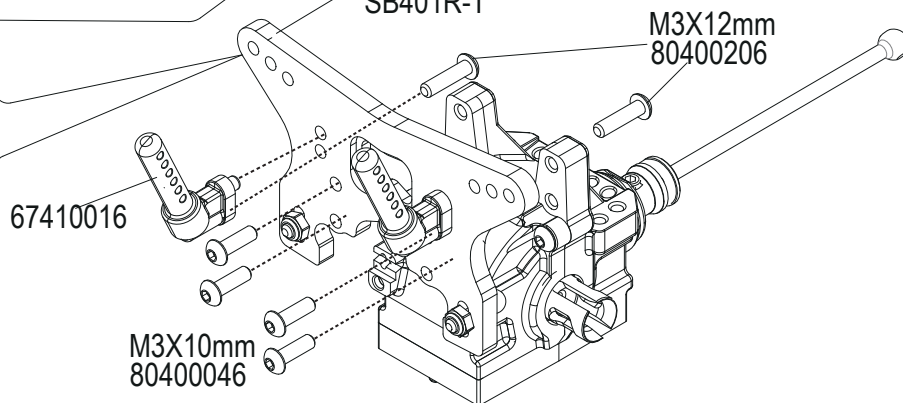
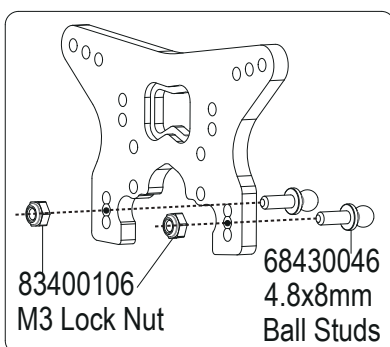
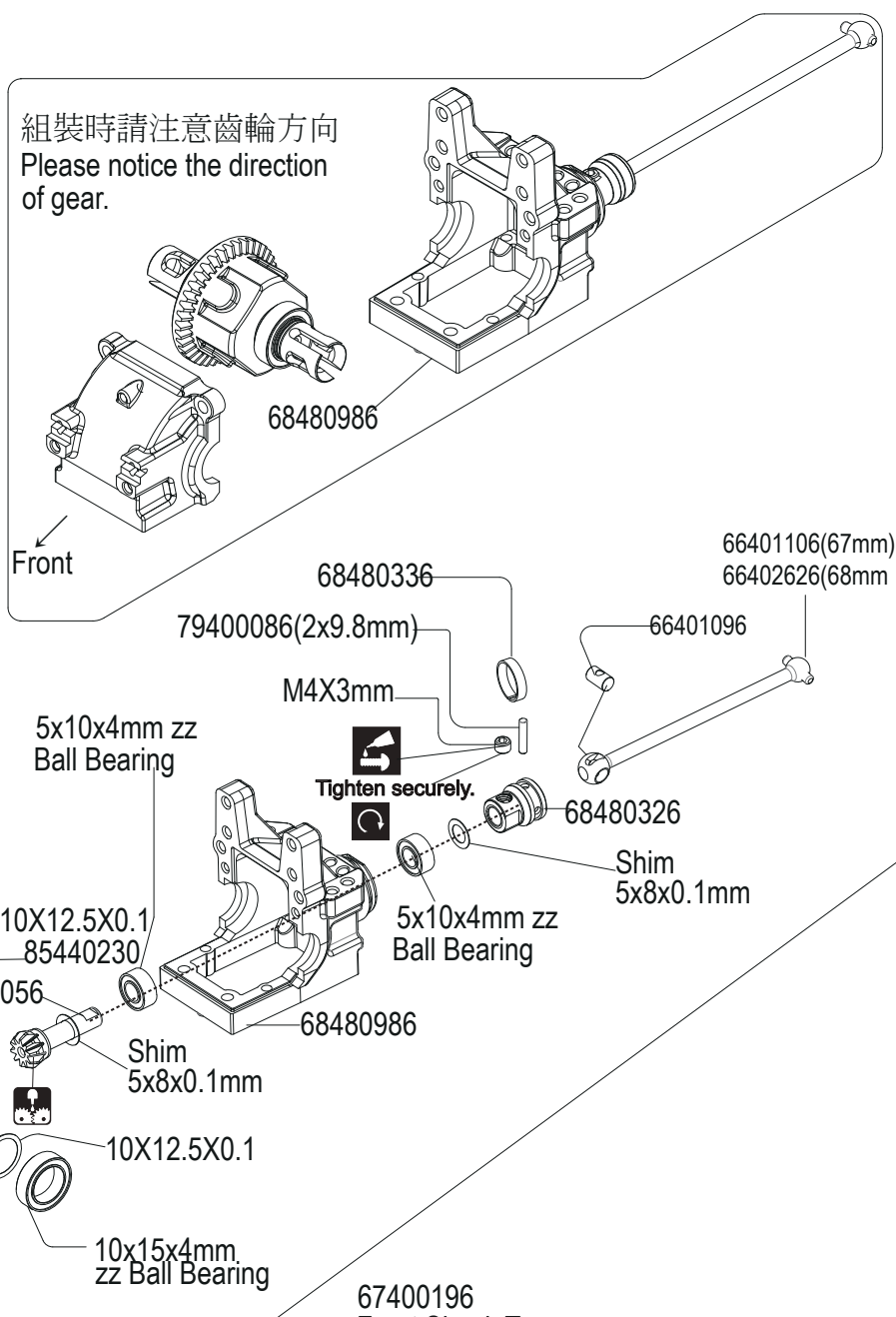


A4 Gear Box Assembly Front Front Shock Tower nstallation

Front

- 2
4.8x8mm Ball Studs-68430046
- 2
M3 Lock Nut -83400106
- 6
M3X10mm Button Head Cap Screw 80400046
- 2
M3X12mm Button Head Cap Screw 80400206
- 2
5x8x0.1mm-85440090
- 3
10X12.5X0.1-85440230
- 2
5x10x4mm zz Ball Bearing-89430010
- 2
10x15x4mm zz Ball Bearing-89430030
- 1
79400086(2x9.8mm)
- 1
M4X3mm Set Screw-78400016

組裝時請注意齒輪方向
Please notice the direction of gear.



Part Bags used.



Apply grease.



Apply threadlocker (screw cement)

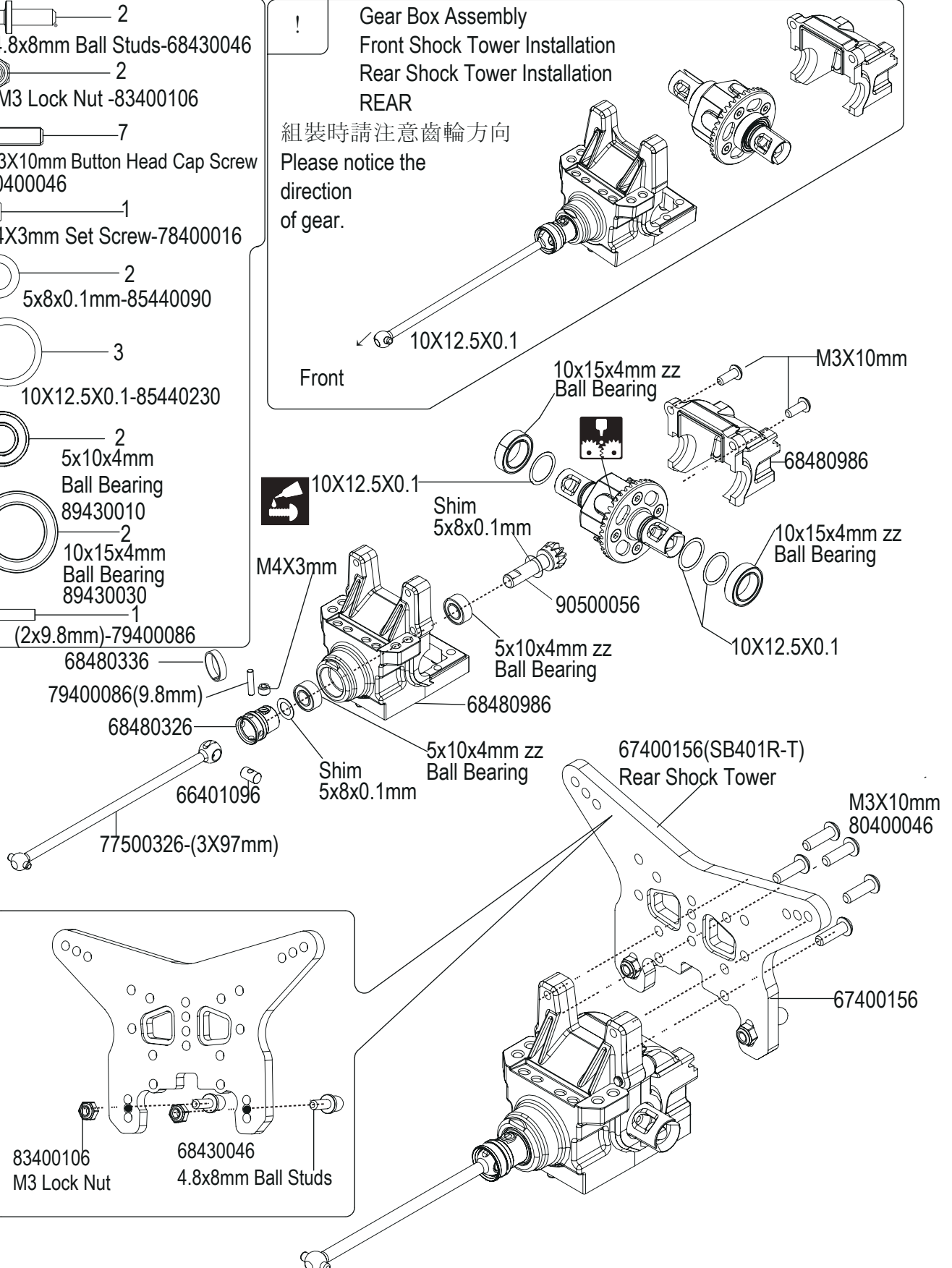


Tighten securely.

-  2
4.8x8mm Ball Studs-68430046
-  2
M3 Lock Nut -83400106
-  7
M3X10mm Button Head Cap Screw
80400046
-  1
M4X3mm Set Screw-78400016
-  2
5x8x0.1mm-85440090
-  3
10x12.5x0.1-85440230
-  2
5x10x4mm
Ball Bearing
89430010
-  2
10x15x4mm
Ball Bearing
89430030
-  1
(2x9.8mm)-79400086

! Gear Box Assembly
Front Shock Tower Installation
Rear Shock Tower Installation
REAR

組裝時請注意齒輪方向
Please notice the
direction
of gear.





B1 Suspension Mount Installation

FRONT HANGER INSERTS

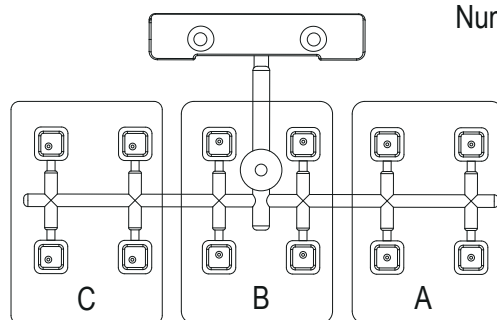
Numbering	FF	FR	TOE	SQUAT
F-1			0	0
F-2			0	+0.7
F-3			0	+1.4
F-4			0	-0.7
F-5			0	0
F-6			0	+0.7
F-7			0	-1.4
F-8			0	-0.7
F-9			0	0
F-10			0	0
F-11			-0.9	0
F-12			-1.7	0
F-13			+0.9	0
F-14			0	0
F-15			-0.9	0
F-16			+1.7	0
F-17			+0.9	0
F-18			0	0
R-19			+3.5	+2

Note:



(1) SB401 Plastic Antisquat Shims=1mm=1Degree.

- 2
M3X6mm Flat Head Screw
82400016
- 2
M3X10mm Flat Head Screw
82400106
- 2
M3X15mm Flat Head Screw
82400176



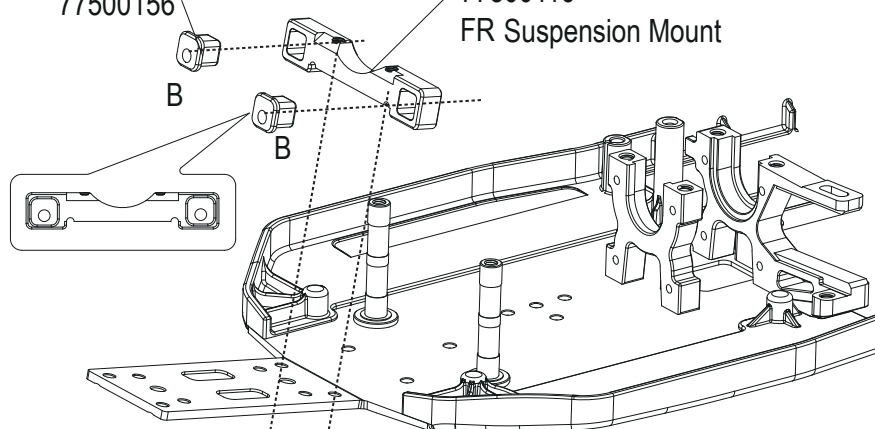
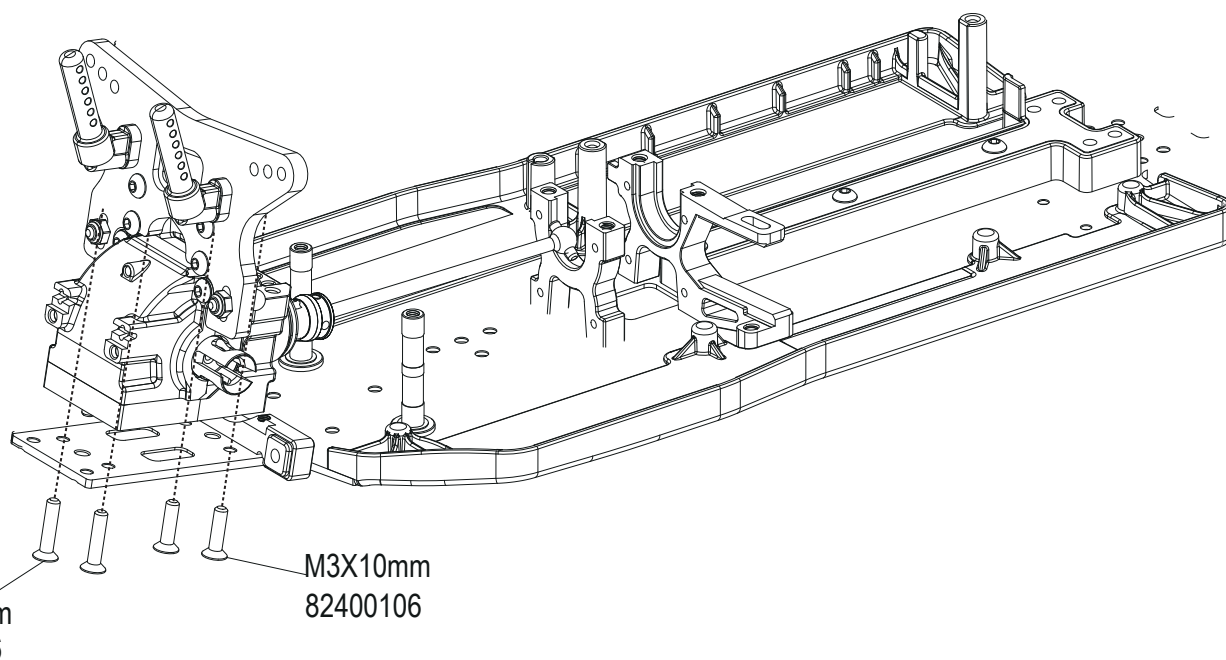
Note position-77500156

Suspension Bushing

77500156

77500116

FR Suspension Mount

M3X6mm
82400016M3X15mm
82400176M3X10mm
82400106

Part Bags used.



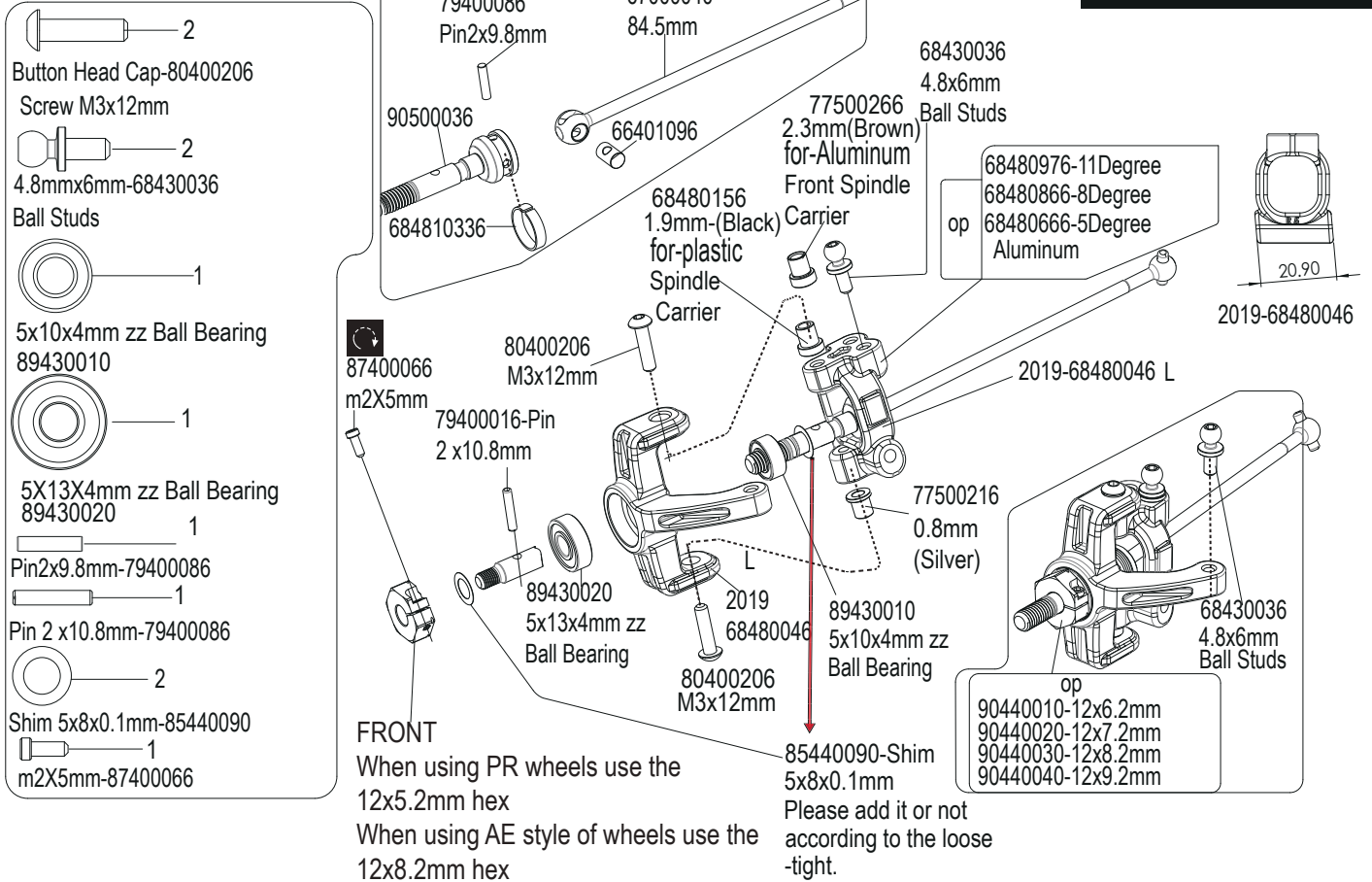
Tighten securely.



Apply threadlocker (screw cement)

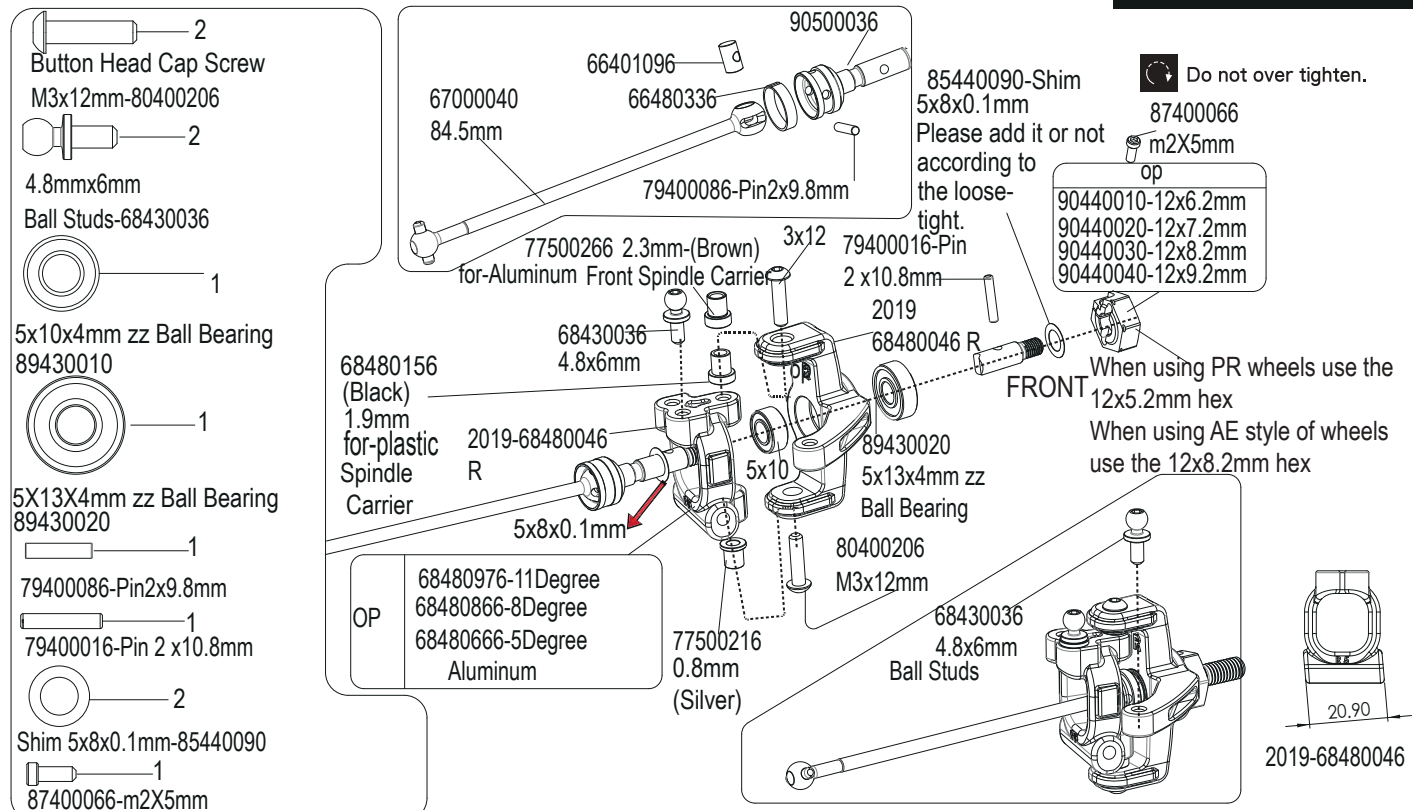
B2 Front Hub Carrier Assembly (Left Side)

Left Side



B2 Front Hub Carrier Assembly (Right Side)

Right Side





B3 Suspension Mount Installation- Sway Bar Installation

4
M3X6mm Flat Head Screw
82400016

2
M2.5X4mm Button Head Cap Screw
80400016

2
M3X8mm Button Head Cap Screw
80400036

2
M3X3mm Set Screw
87400016

2
M3X6mm Set Screw
78400026

2
M3X10mm Set Screw
87400026

2
Pin3x36.8mm-79400036

2
Pin 3x52mm-79480036

2
85440320-Shim - 3 x8 x0.15mm

0mm
Set Screw
M3X10mm
87400026
68480756
2.1mm
77430036
gray

Assemble
2 sway bar rod.



90500016
SB401R-T
Wishbone

80400016
M2.5X5.5mm

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

1.95mm

79480036
3X52mm

79400036
3x36.8mm

OP Sway Bar
66481276-1.3mm
66481286-1.4mm
66481306-1.6mm
66481456-1.7mm
66481456-1.8mm

85440320-Shim - 3 x8 x0.15mm
Please add it or not
according to the loose-tight.
依據鬆緊，請加它或不加它。

M3X3mm
87400016
Set Screw

KIT-1.5mm
Sway Bar
66481276

Set Screw
M3x6
78400026

68480036

M3X8mm

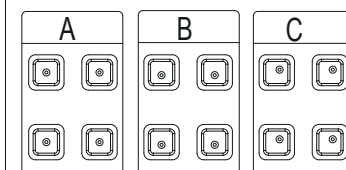
M3X6mm
77500156

M3X6mm
82400016

77500106
Suspension Mount
FF

Suspension Bushing

M3X3mm
87400016
Set Screw



Note position- 77500156

1pcs=1°
2pcs=2°

68480036



Part Bags used.



Assemble left and right
sides the same way.



Tighten securely.



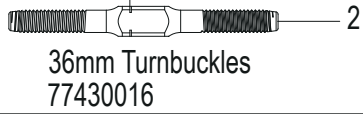
Apply threadlocker (screw cement)



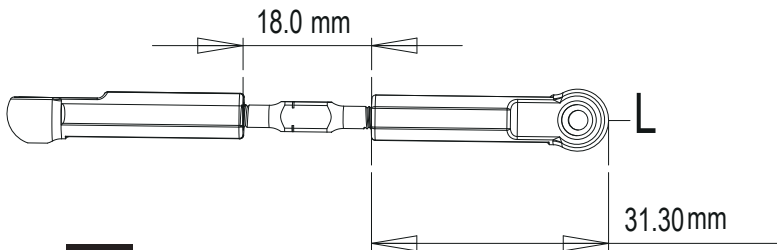
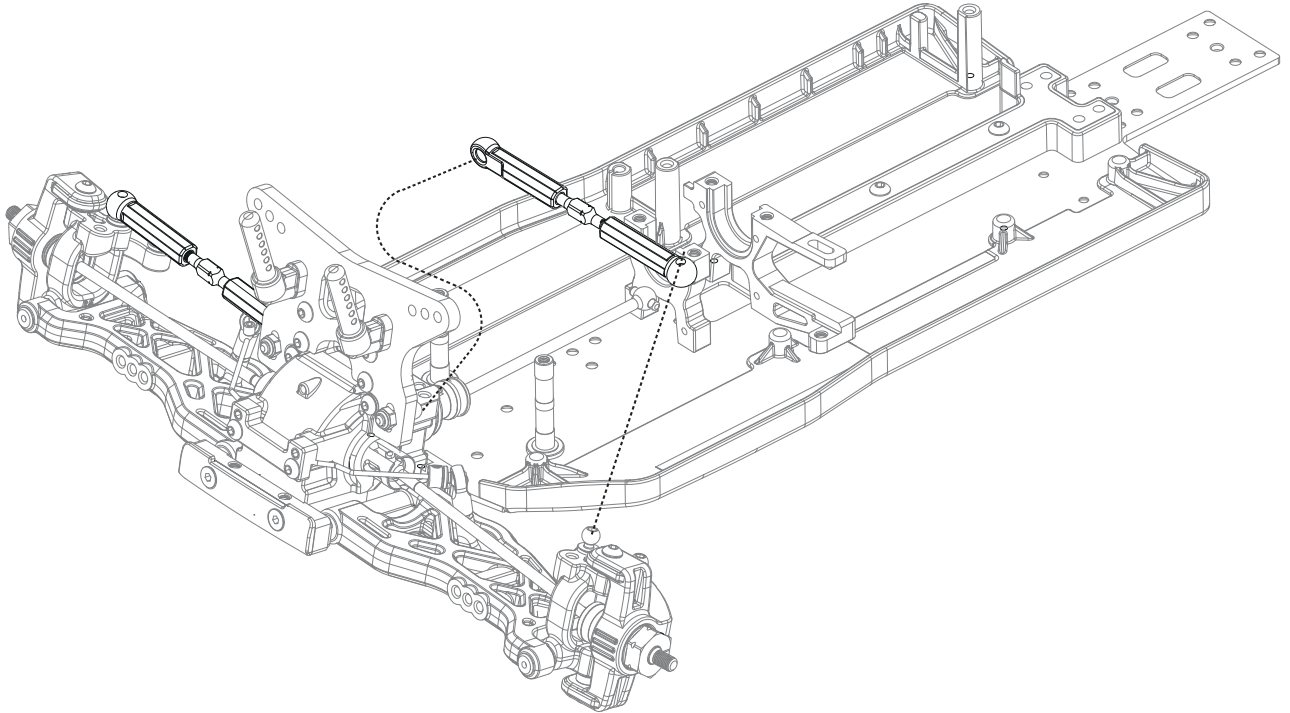
Do not over tighten.

B4 Front Upper Turnbuckle Assembly

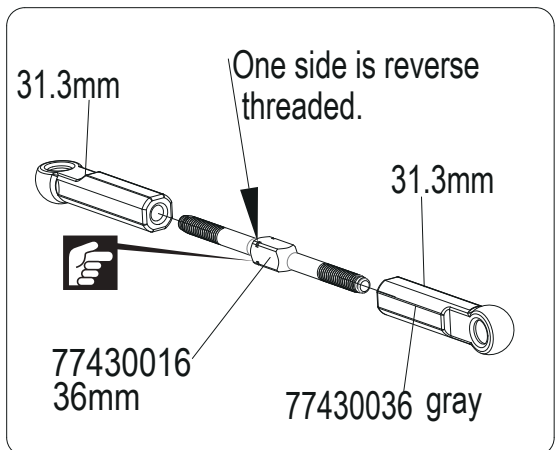
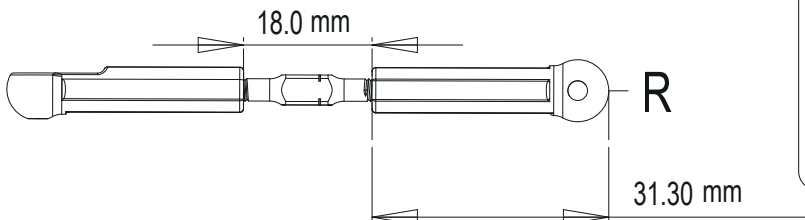
One side is reverse threaded.



"Assemble 2 front links
and 2 steering rod links"

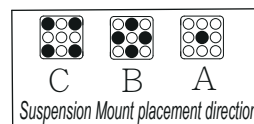


1:1

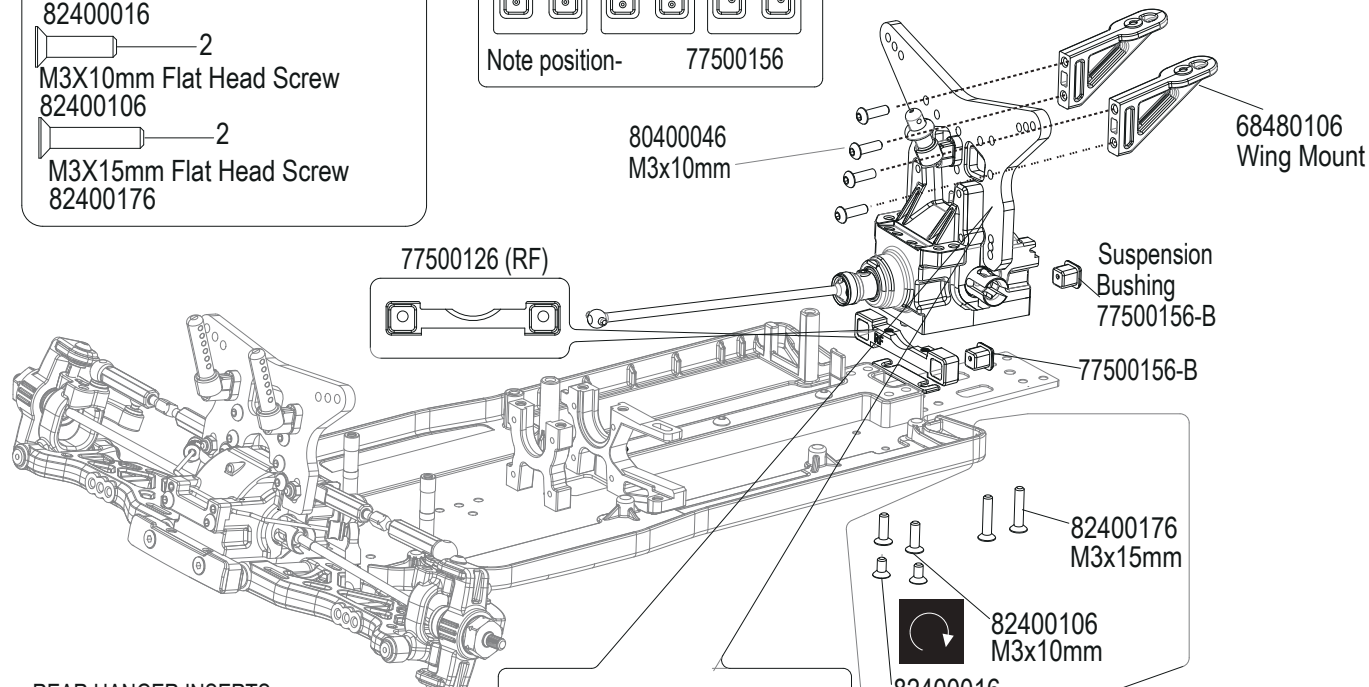
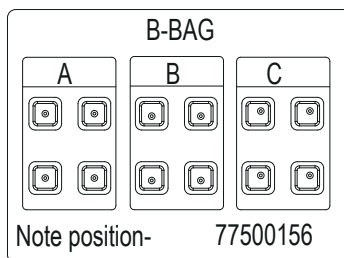




C1 RF Suspension Mount

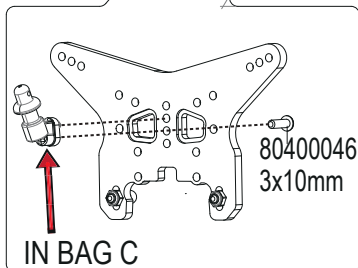


- 5
M3X10mm Button Head Cap Screw
80400046
- 2
M3X6mm Flat Head Screw
82400016
- 2
M3X10mm Flat Head Screw
82400106
- 2
M3X15mm Flat Head Screw
82400176



REAR HANGER INSERTS

Numbering	RF	RR	TOE	SQUAT
R-1			+1.6	0
R-2			+1.6	+0.7
R-3			+1.6	+1.4
R-4			+1.6	-0.7
R-5			+1.6	0
R-6			+1.6	+0.7
R-7			+1.6	-1.4
R-8			+1.6	-0.7
R-9			+1.6	0
R-10			+1.6	0
R-11			+0.8	0
R-12			0	0
R-13			+2.5	0
R-14			+1.6	0
R-15			+0.8	0
R-16			+3.0	0
R-17			+2.5	0
R-18			+1.5	0
R-19			+3.5	+2



Note:



(1) SB401 Plastic Antisquat
Shims=1mm=1Degree.



Part Bags used.



Tighten securely.

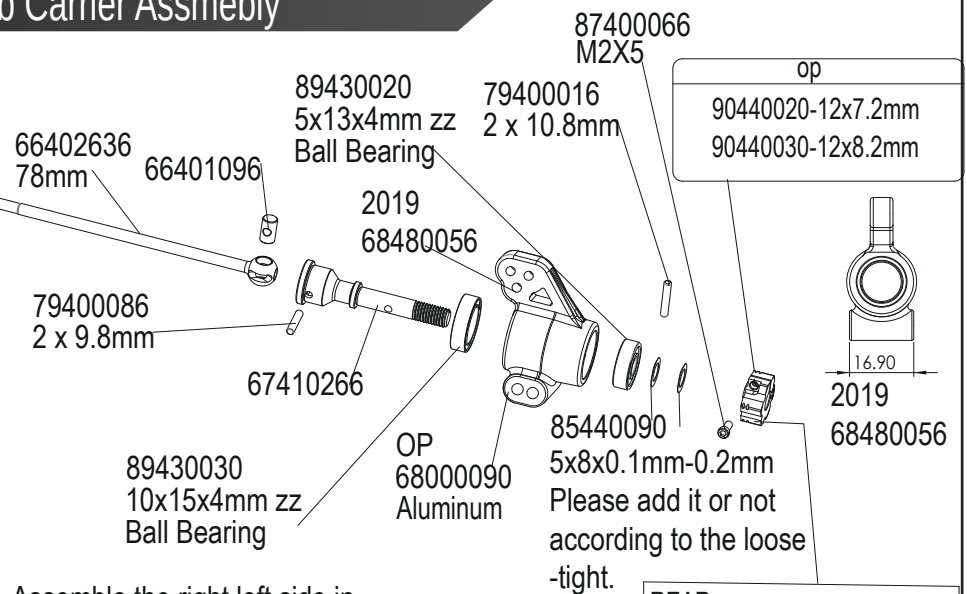


Apply threadlocker (screw cement)



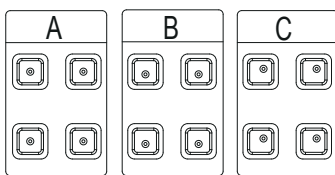
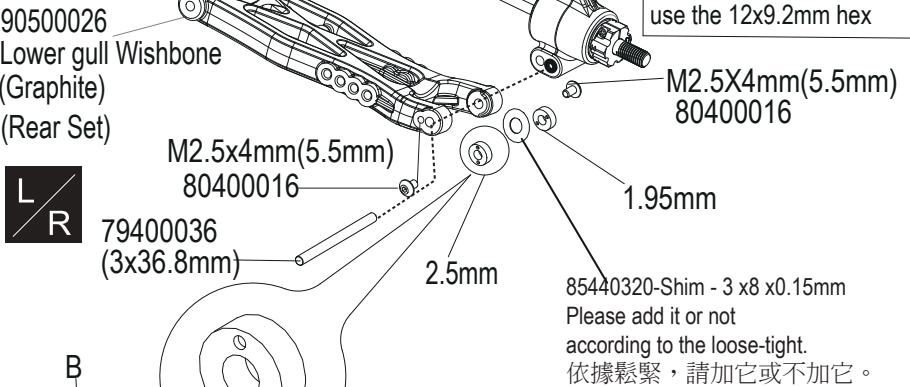
C2 Rear Left Hub Carrier Assmely

- 2
m3x6mm Flat Head Screws
82400016
- 4
M2.5X4mm Button Head Screw
80400016
- 2
10x15x4mm zz Ball Bearing
89430030
- 2
5x13x4mm zz Ball Bearing
89430020
- 2
Shim 5x8x0.1mm
85440090
- 2
PIN(3x52mm)79480036
- 2
PIN(3x36.8mm)79400036
- 2
PIN(2 x 10.8mm)79400016
- 2
PIN(2 x 9.8mm)79400086
- 2
m2X5mm-87400066

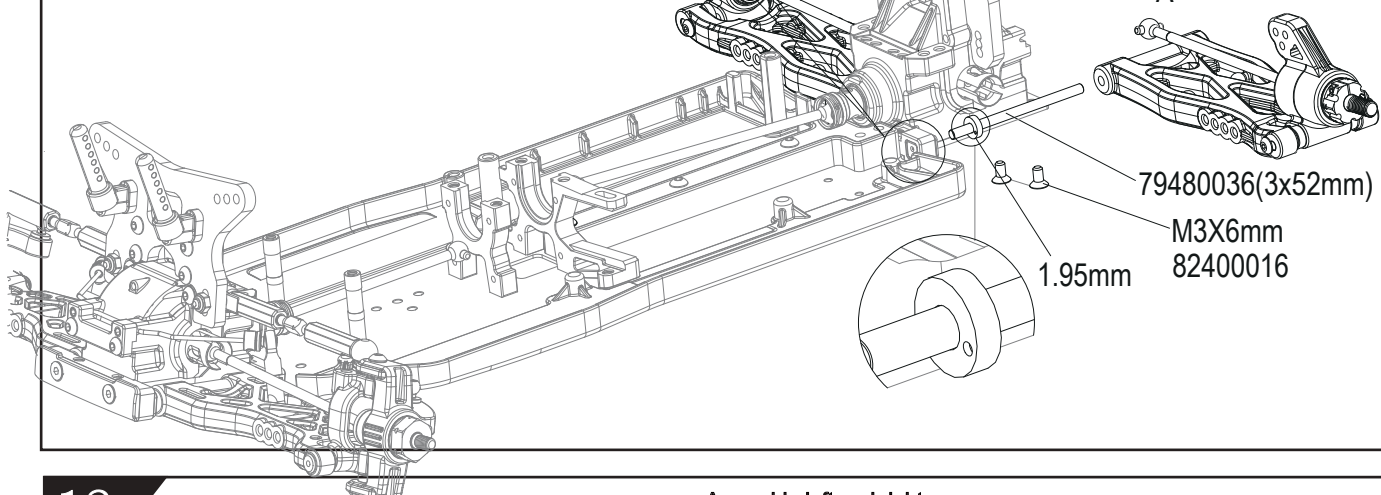
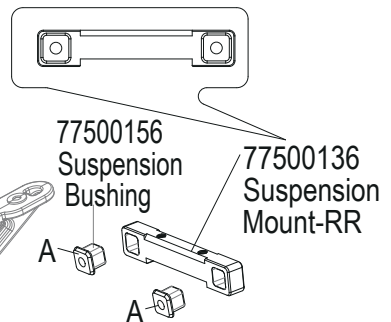


Assemble the right left side in the same manner.

REAR
When using PR wheels use the 12x6.2mm hex
When using AE style of wheels use the 12x9.2mm hex



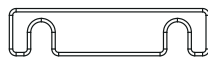
Note position



REAR HANGER INSERTS

Numbering	RF		RR		TOE	SQUAT
R-1					+1.6	0
R-2					+1.6	+0.7
R-3					+1.6	+1.4
R-4					+1.6	-0.7
R-5					+1.6	0
R-6					+1.6	+0.7
R-7					+1.6	-1.4
R-8					+1.6	-0.7
R-9					+1.6	0
R-10					+1.6	0
R-11					+0.8	0
R-12					0	0
R-13					+2.5	0
R-14					+1.6	0
R-15					+0.8	0
R-16					+3.0	0
R-17					+2.5	0
R-18					+1.5	0
R-19					+3.5	+2

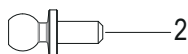
Note:



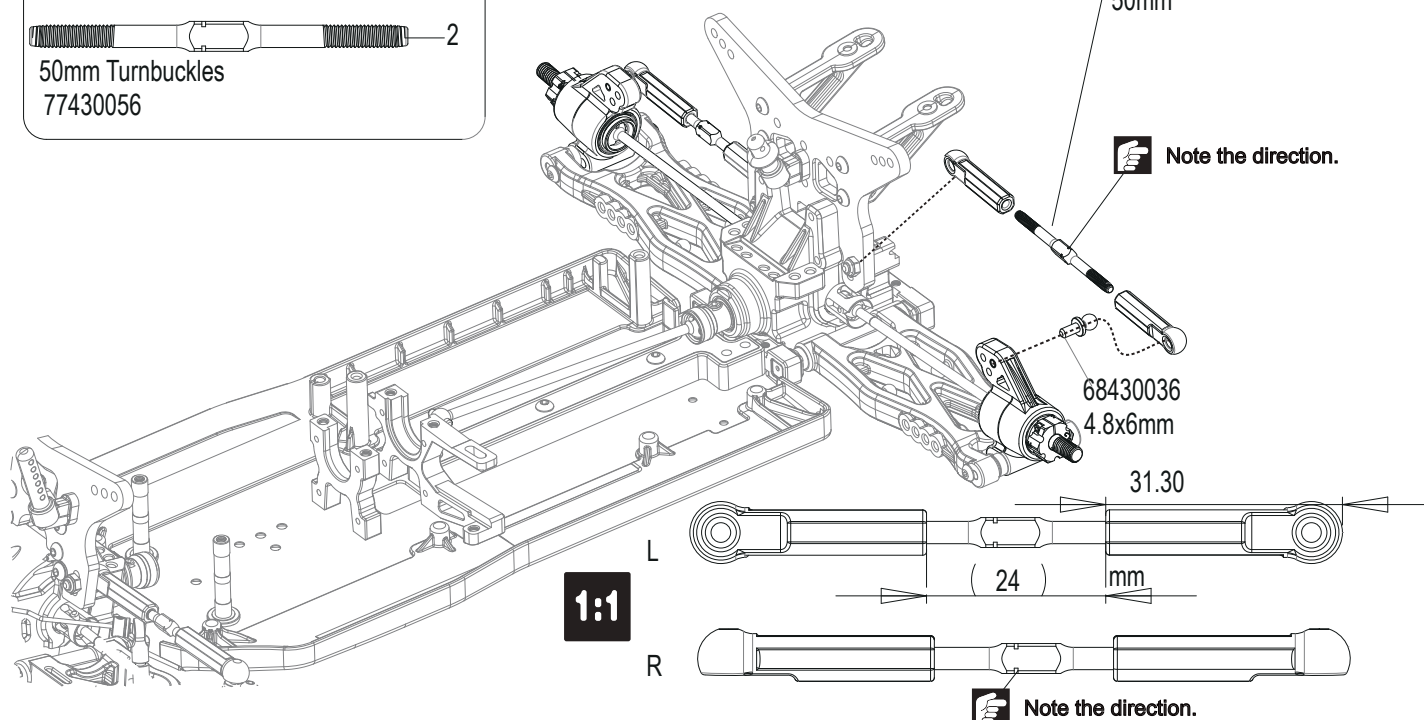
(1) SB401 Plastic Antisquat
Shims=1mm=1Degree.



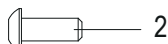
C4 Rear Upper Rod -Turnbuckle Assembly



4.8x6mm Ball Studs-68430036

50mm Turnbuckles
77430056

C5 Sway Bar Installation



M3X8mm Button Head Cap Screw-80400036



M3X3mm Set Screw-87400016



M3X6mm Set Screw-78400026



M3x10mm Set Screw-87400026

OP-66481276 Sway Bar 1.3mm
 OP-66481286 Sway Bar 1.4mm
 OP-66481296 Sway Bar 1.5mm
 OP-66481456 Sway Bar 1.7mm
 OP-66481466 Sway Bar 1.8mm
 OP-66481476 Sway Bar 1.9mm
 OP-66481486 Sway Bar 2.0mm

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

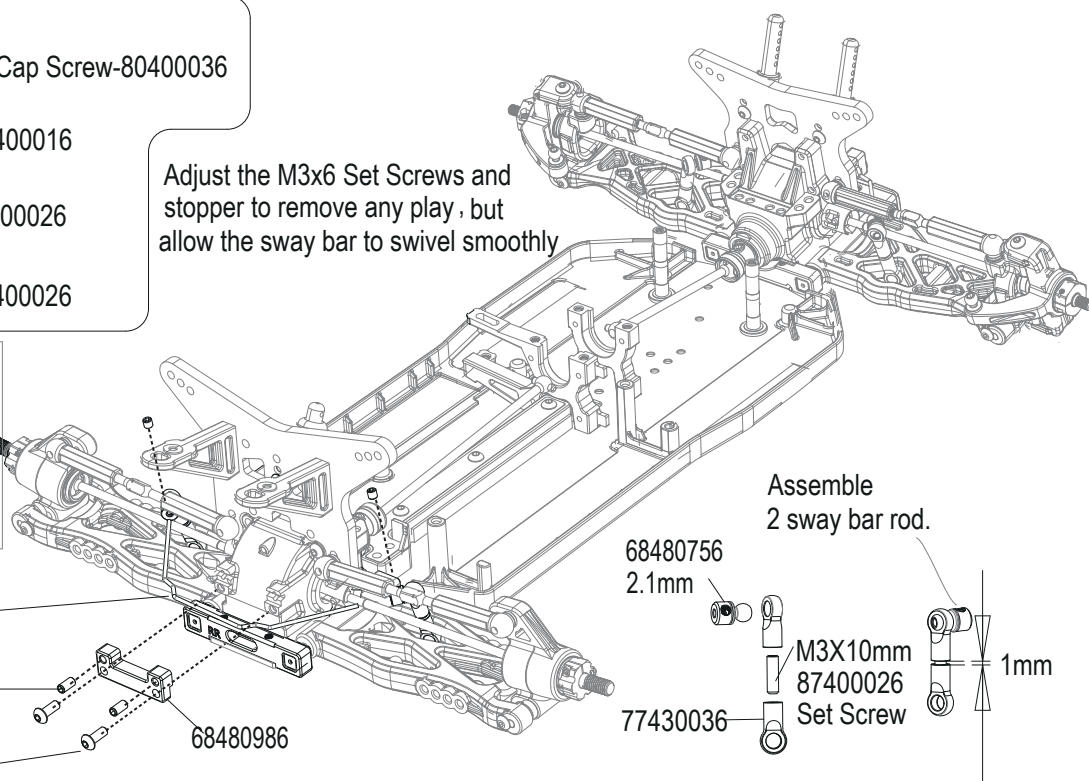
KIT-66481306

Sway Bar 1.6mm

78400026-M3x6mm

Set Screw

80400036-M3X8mm



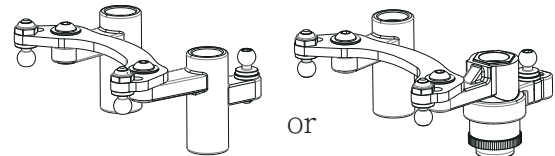
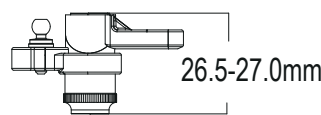
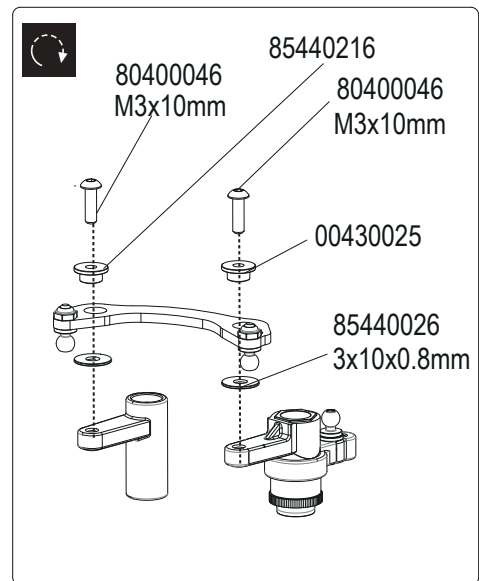
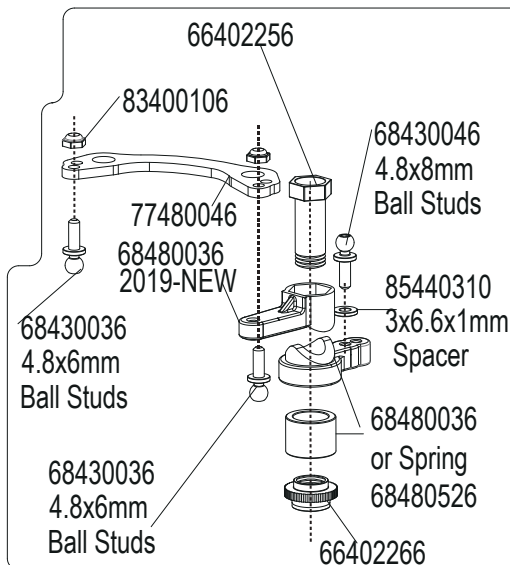


D1 Bell Crank Installation



-  2
4.8x6mm Ball Studs
68430036
-  1
4.8x8mm Ball Studs
68430046
-  2
M3 Lock Nut-83400106
-  2
3x10x0.8mm-85440026
-  1
Silver Aluminum Spacer
3x6.6x1mm-85440310
-  2
M3x10mm-80400046
Button Head Cap Screw

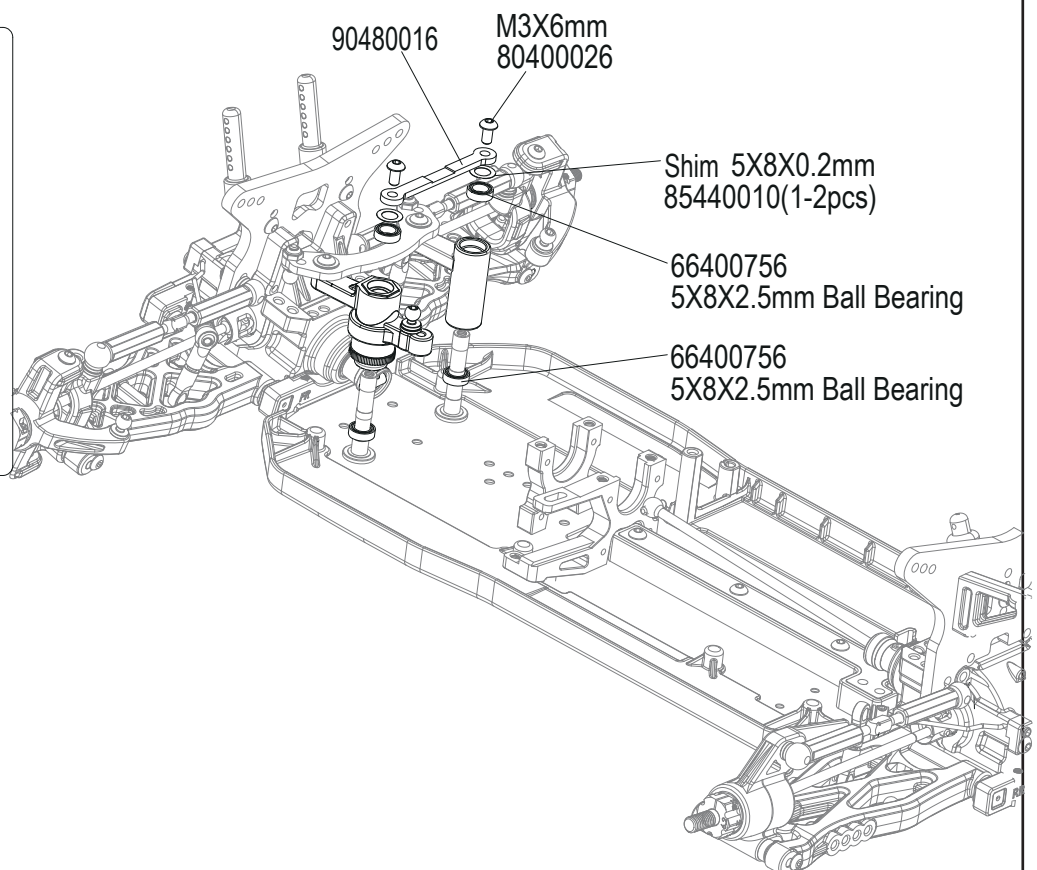
Bell Crank Installation



D2 Steering



-  2
M3X6mm Button Head Screw
80400026
-  4
5x8x2.5mm zz Ball Bearing
66400756
-  4
Shim 5x8x0.2mm
85440010



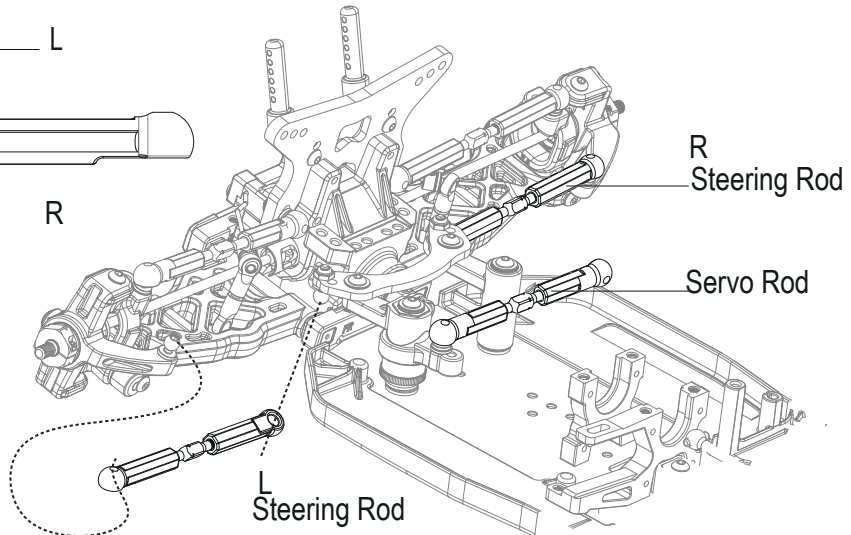
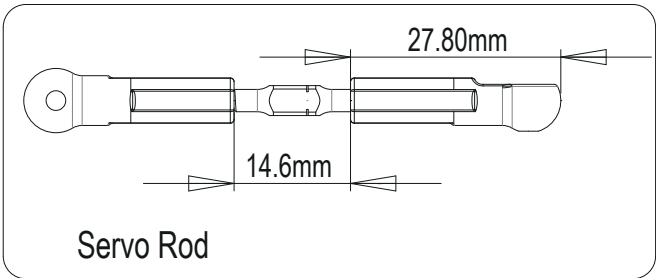
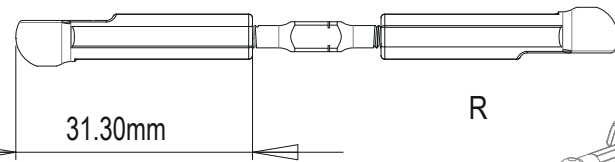
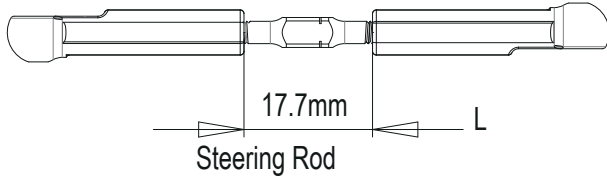
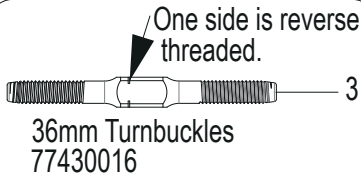
Part Bags used.



Do not over tighten.



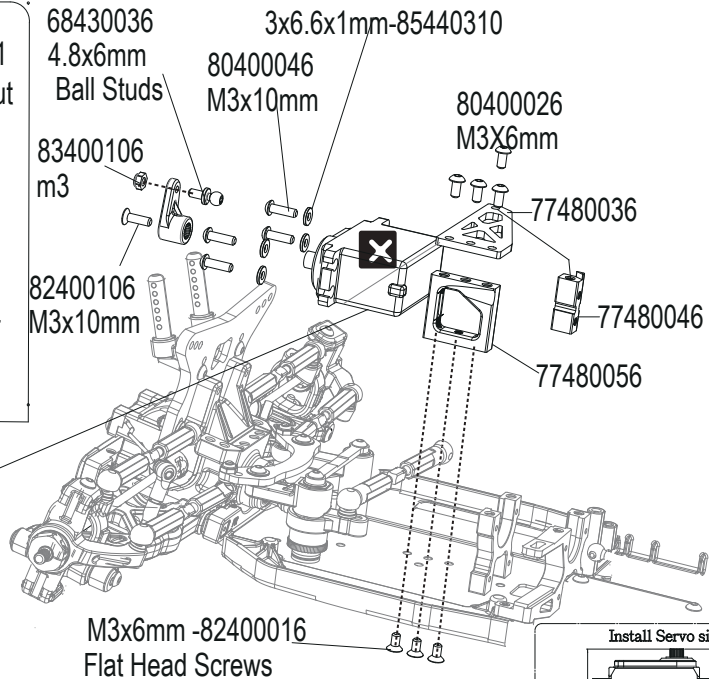
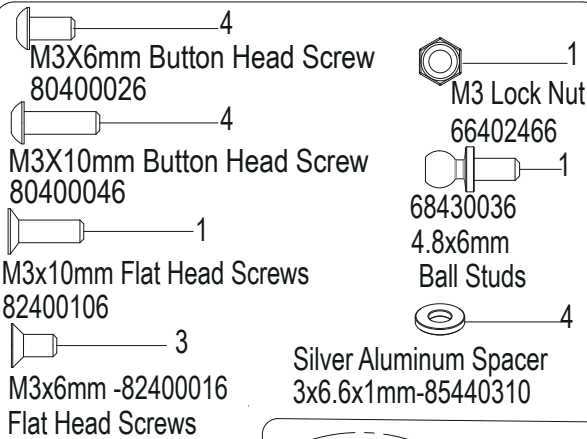
D3 Turnbuckle Assembly-Steering Rod -Servo Rod



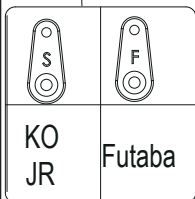
Assemble 2 front
and
2 sway bar rod
mm



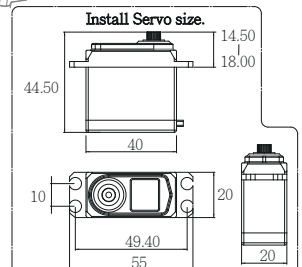
D4 Steering Servo



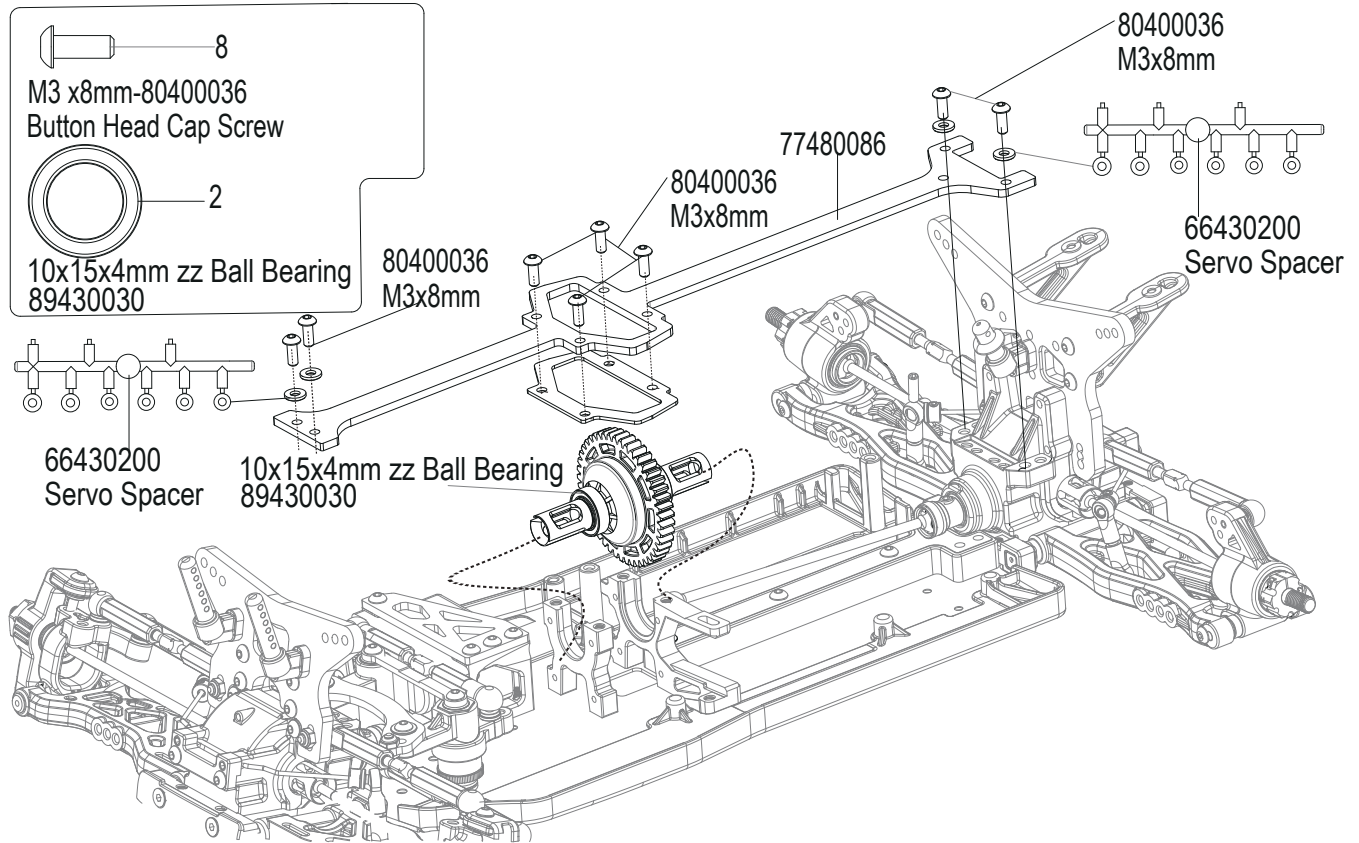
Servo Installation
66402466



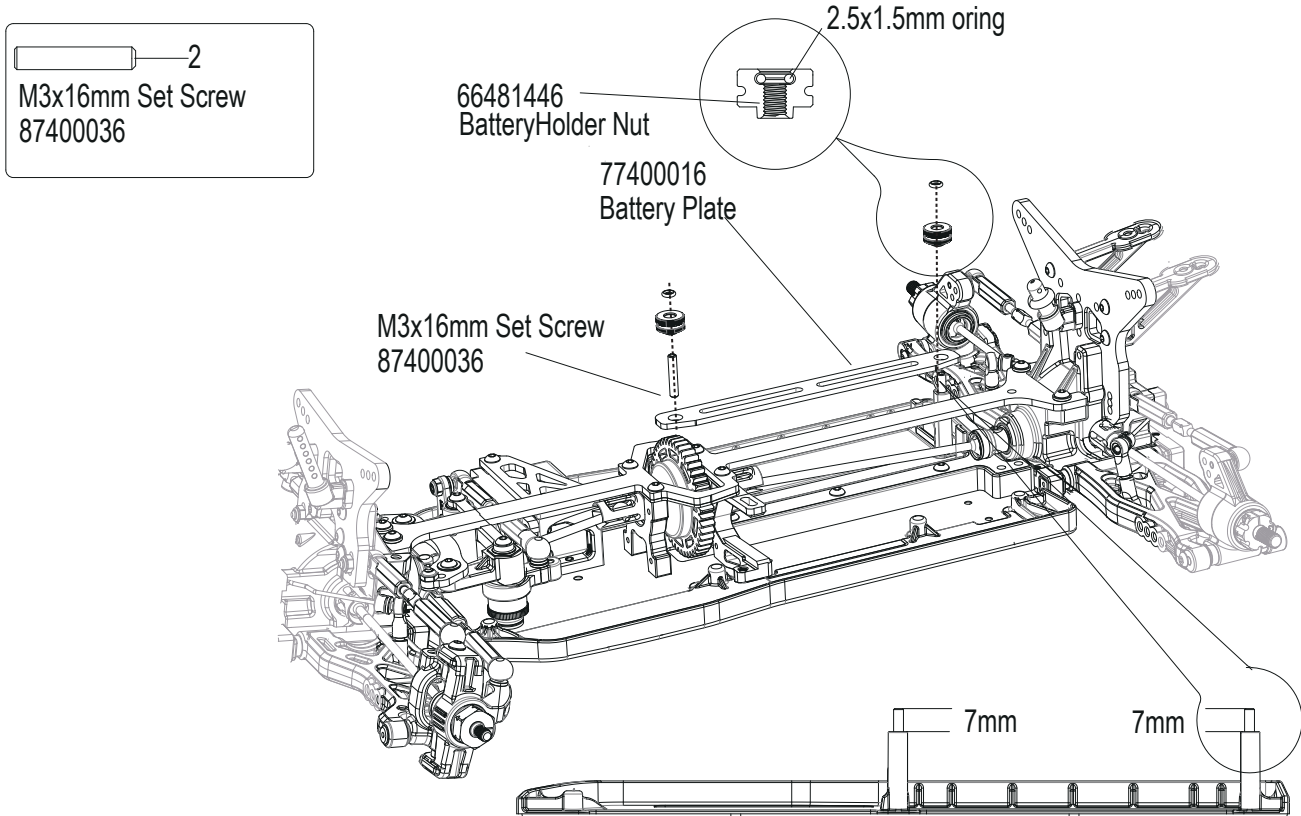
Make sure that the servo is centered before attaching the servo saver horn.
(Refer to your radio manual for more information)
Select the servo saver adapter matching the servo being used.



D5 Center Mount Plate

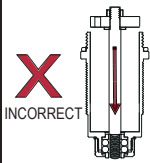


D6 Battery Plate Installation



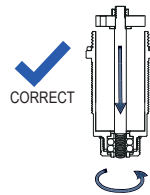
E1 Front & Rear Shock Assembly-R

BAG E

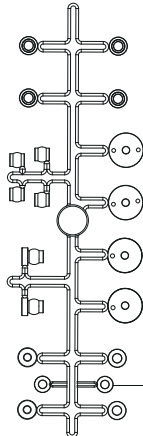


EXTREMELY IMPORTANT

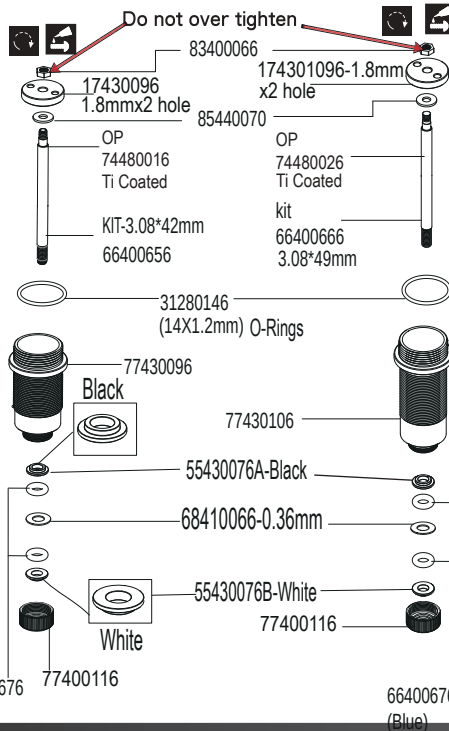
Do not push the shock rod straight through the lower shock body assembly; O-ring damage may result.



Twist the shock rod through the lower shock body assembly.

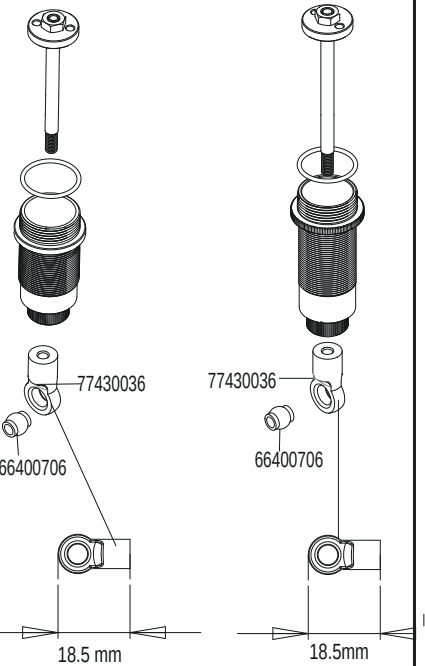


0.36mm



Front Buildx2

Rear Buildx2



BAG D



Shock Ball---4pcs
66400706

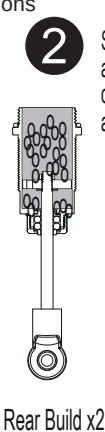
OP Shock Pistons

66480206-Machined Shock Pistons -1.3mm x 4 Hole (4pcs)
17430056-Machined Shock Pistons -1.4mm x 3 Hole (4pcs)
66400646-Machined Shock Pistons -1.4mm x 4 Hole (4pcs)
17430046-Machined Shock Pistons -1.5mm x 3 Hole (4pcs)
17430066-Machined Shock Pistons -1.6mm x 3 Hole (4pcs)
66480706-Machined Shock Pistons -1.6mm x 2 Hole (4pcs)
66480716-Machined Shock Pistons -1.7mm x 2 Hole (4pcs)
17430076-Machined Shock Pistons -1.7mm x 3 Hole (4pcs)
17430116-Machined Shock Pistons -2.0mm x 2 Hole (4pcs)
17430086-Machined Competition Shock Piston 0 Hole(4pcs)

After first drive
adjust
for track conditions



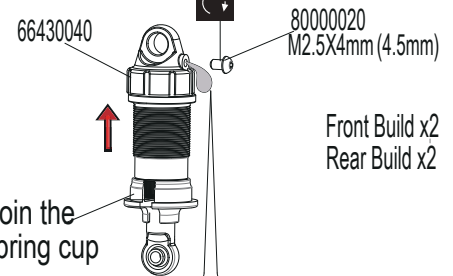
Front Build x2



Rear Build x2



Slowly move up
and
down to remove
air bubbles.



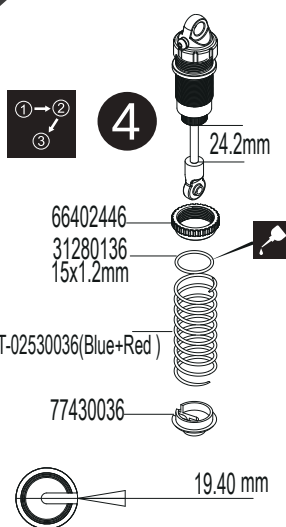
Front Build x2
Rear Build x2

Join the
spring cup

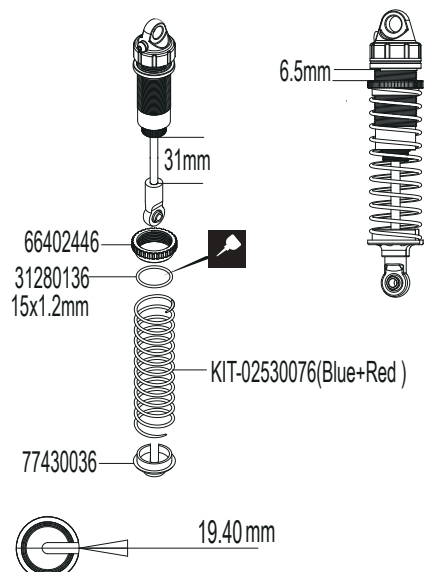
Slowly push the shock shaft all the way
up, wipe away any excess oil that has
seeped out, and screw in the bleeder
screw.

OP

PR RACING			
2019 PR 1/10 Type R Shock Spring			
71530016-Type R Front Shock Spring Set (Not included-02530016)			
PART NO:	Color	kg/mm	lbs/in
02500096	Transparent	0.053	2.97
02500106	Blue	0.058	3.25
02500146	White	0.061	3.42
02500116	Red	0.063	3.53
02500126	Yellow	0.068	3.81
02530016	Green	0.075	4.20
02530026	Black	0.080	4.48
02530036	Blue Red	0.085	4.76
02530046	White Yellow	0.090	5.04
02530116	Green Black	0.098-(RT)	5.88-(RT)
71530026-Type R Rear Shock Spring Set (Not included-02530126)			
02500056	Transparent	0.030	1.80
02500066	Blue	0.035	2.10
02500136	White	0.037	2.22
02500076	Red	0.040	2.40
02500086	Yellow	0.045	2.70
02530056	Green	0.050	3.00
02530066	Black	0.055	3.30
02530076	Blue Red	0.060	3.60
02530086	White Yellow	0.065	3.90
02530126	Green Black	0.073-(RT)	4.50-(RT)



Front Build x2



Rear Build x2



Part Bags used.



Apply threadlocker (screw cement)



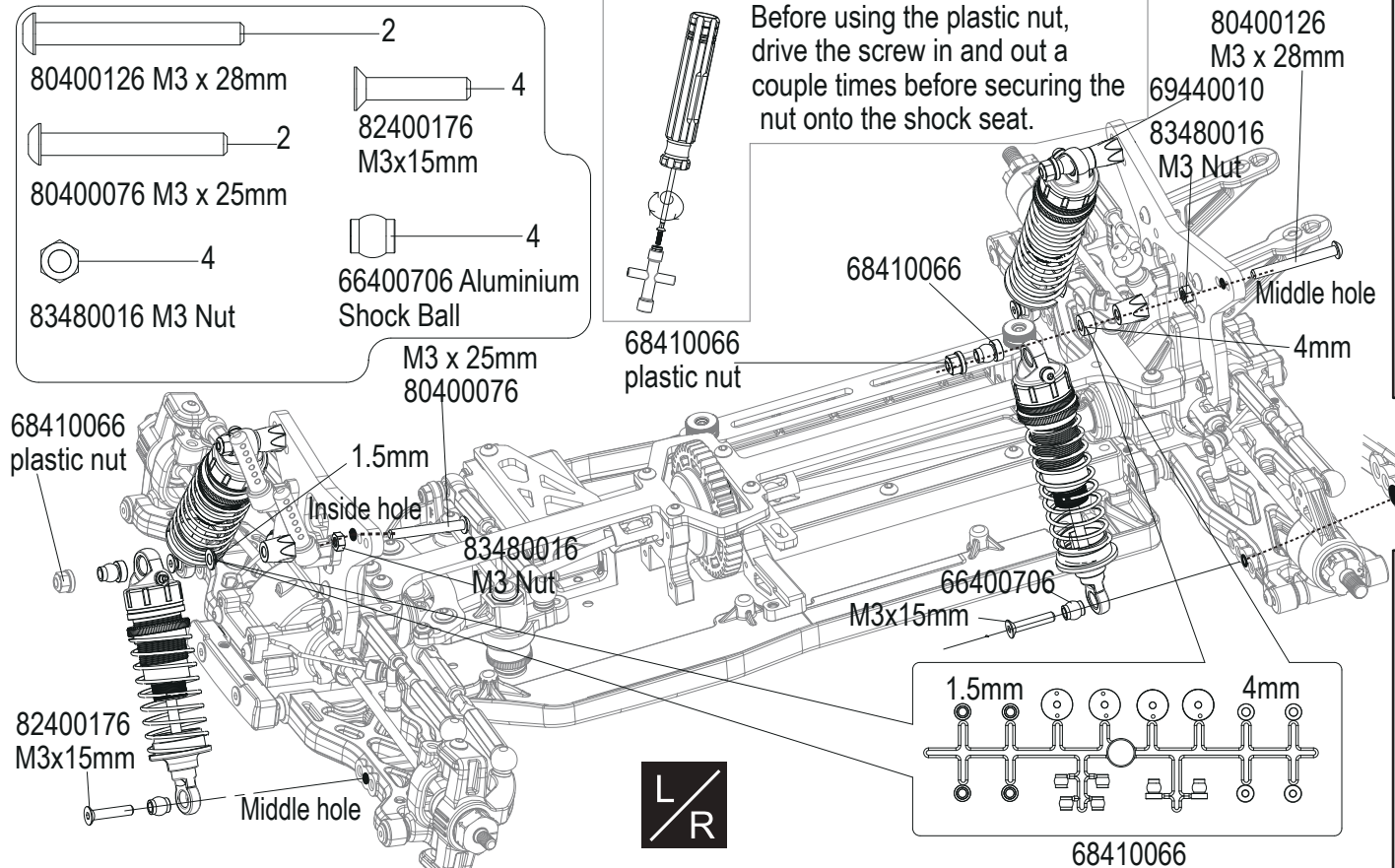
Do not over tighten.



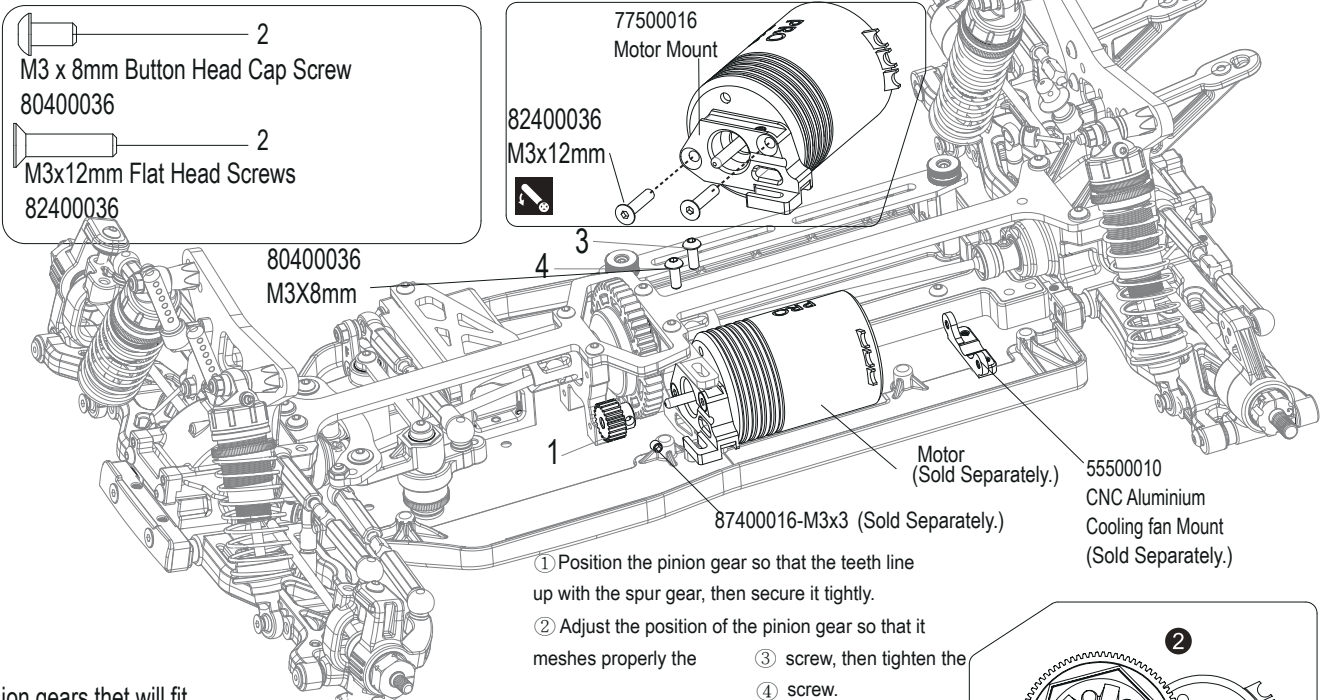
Apply oil.



E2 Front & Rear Shock Installation

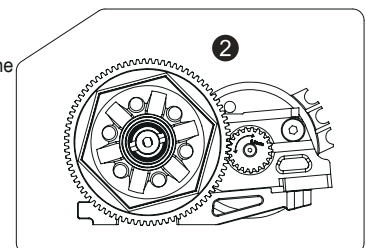


E3 Motor Installation



Pinion gears that will fit.

Pinion	17T	18T	19T	20T	21T	22T	23T	24T	25T	26T
77T(Standard)	17.66	16.68	15.81	15.02	14.30	13.65	13.06	12.51	12.01	11.55
80T(Standard)	18.35	17.33	16.42	15.60	14.86	14.18	13.57	13.00	12.48	12.00
81T(Standard)	18.58	17.55	16.63	15.80	15.04	14.36	13.73	13.16	12.64	12.15



Part Bags used.



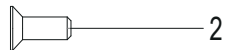
Assemble left and right sides the same way.



Ensure smooth non-binding movement while assembling.



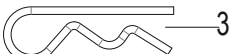
E4 Mounting Tires Wheel Installation



2
M3x8mm Flat Head Screws
82400026

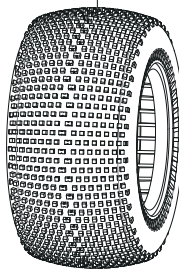


4
83400076
M5 Serrated flange nut
7mm Hex

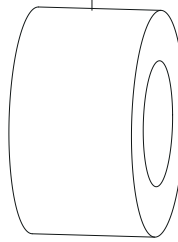


3
R6-66401926

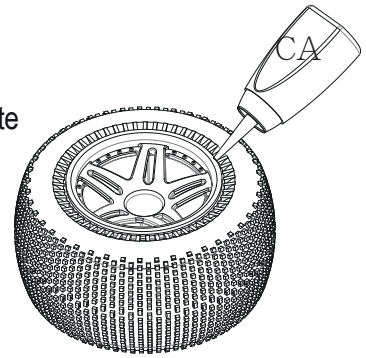
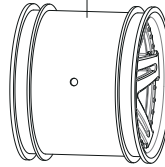
(Sold seprstely)
67410226



(Sold seprstely)
32430526



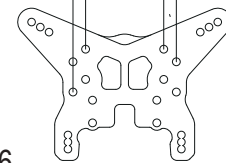
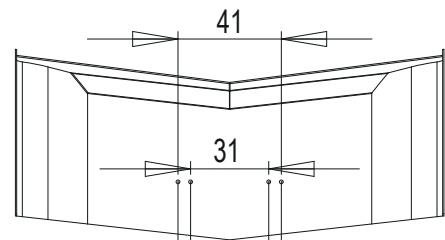
67410086
PR ST 1
Wheel White



*Place the tire insert into the tire and tire onto the wheel.

*Tire and insert (Sold seprstely)
CA(Cyanoacrylate) glue sold separately.

*Pull the sidewall of the tire slightly away from the rim and apply CA(Cyanoacrylate) glue in between the tire bead and rim



82400026
M3x8mm

kit-68480036
op-85430016(Aluminum
Wing Mount Washer)

Drilling-6mm

66401926-R6 Snap Pin

Drilling-6mm

Cut off shaded portion.

Cut off shaded portion.

OP-66401726-Competition Wing
(170mm Wide)(1.2mm thickness)

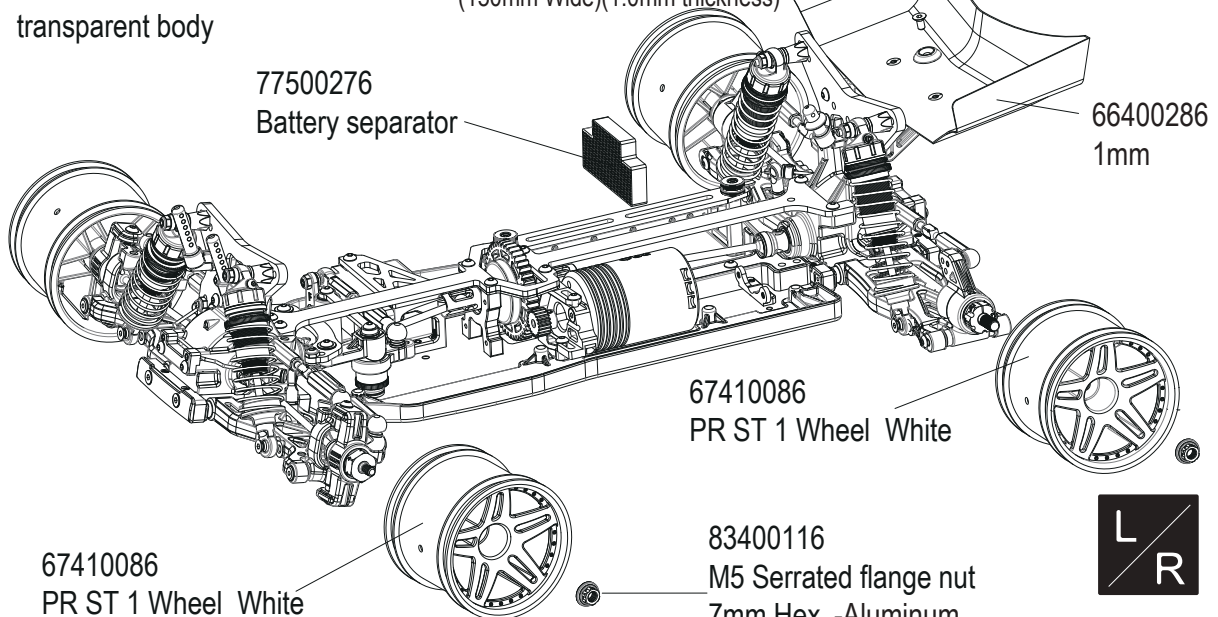
OP-66401626-Competition Wing
(150mm Wide)(1.0mm thickness)

77470016
Body sticker

90410016
transparent body

77500276
Battery separator

66400286
1mm



67410086
PR ST 1 Wheel White

67410086
PR ST 1 Wheel White

83400116
M5 Serrated flange nut
7mm Hex -Aluminum



PRSB40RT

PR SB401-R 1/10 Electric 4wd Off Road Turggy Kit
ITEM NO:77500346

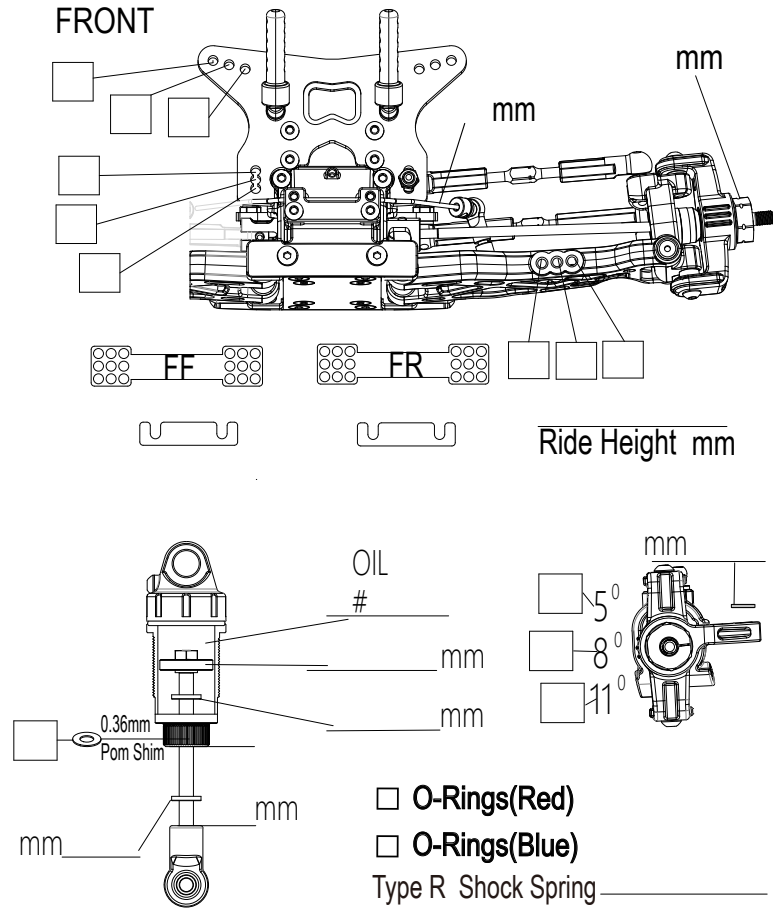
DRIVER

DATE _____

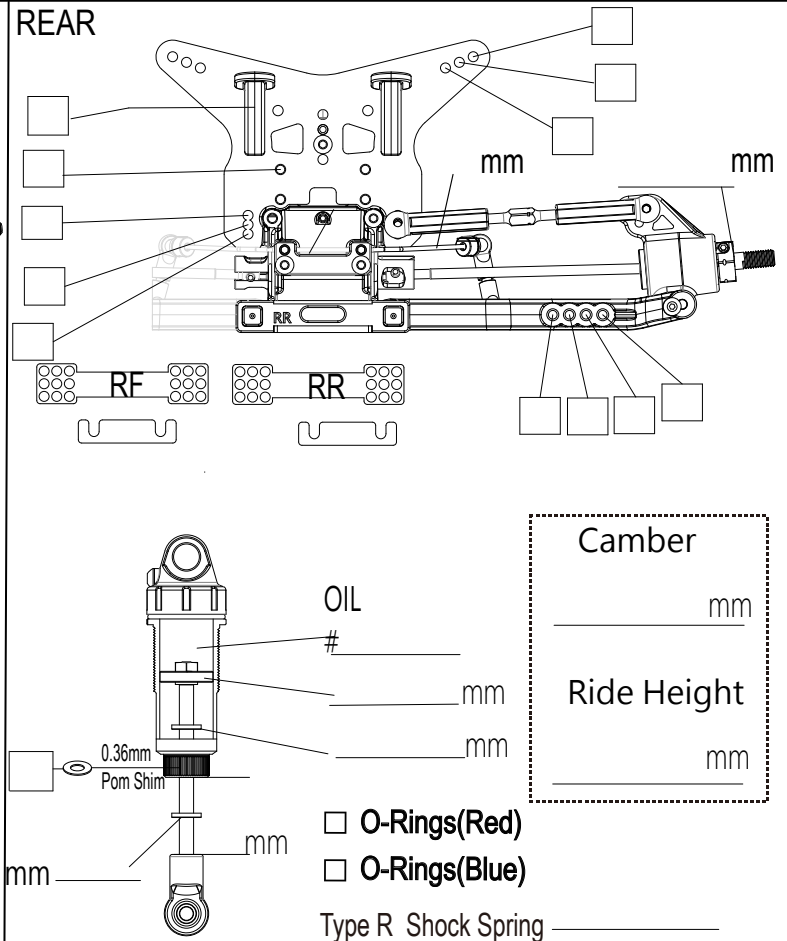
CIRCUIT

- ☐ INDOOR ☐ OUTDOOR ☐ DIRT ☐ ASTROTURF ☐ CARPET
☐ GLASS ☐ WOOD ☐ WET ☐ DRY ☐ DUSTY ☐ SMOOTH
☐ BUMPY ☐ HARD PACKED ☐ CLAY ☐ BLUE GROOVE
☐ LOW TRACTION ☐ MED TRACTION ☐ HIGH TRACTION

FRONT



REAR



MOTOR

GEAR Spur T

Pinion _____ T

BATTERY

ESC _____

TIRE _____

FRONT

TIRE _____

INSERTS _____

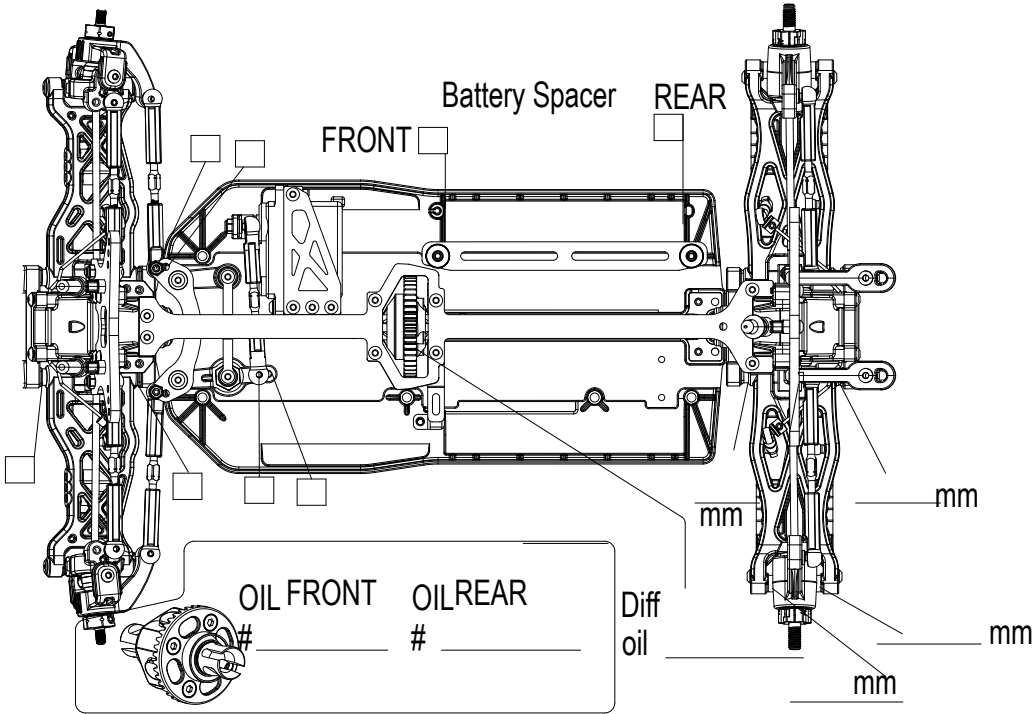
WHEELS _____

REAR

TIRE _____

INSERTS _____

WHEELS



OTHER

PR SB401R-T

PR SB401R-T 1/10 ELECTRIC 4WD OFF-ROAD STADIUM TRUCK / TRUGGY

ITEM NO:77500346



EMAIL / infopracing@gmail.com

1.5.1Version