



VB-10

PR SC201 MM (VB-10) Off Road 1/10 2WD Short Course Truck Kit
ITEM NO:69000020



PR SC201 MM (VB-10) Off Road 1/10 2WD Short Course Truck Kit

Specifications

- Motor: Electric
- Chassis Kick-up: 25-degrees
- Hardware: Full metric
- Bearings: Shields Metal Ball Bearings
- Wheels : Wheels with 12mm hex (front and rear)
- Spur Gear: 73-75-77-(81)-83-tooth 48-Pitch
- Drivetrain: 2WD(MM)
- Motor: Electric 540-sized
- Kit/RTR: Kit
- Shock Type: Oil-Filled Aluminum Shocks
- Body: (Clear)
- Driveshafts: Full set of 2 CVA
- 1/10 SC Tires, inserts
- Width: 296 mm
- Weight: 1000-1100g (weight varies with choice of electronics, tires & body)
- Wheelbase: 325mm-329mm
- Gear Ratio: 2.75:1
- Battery choice: 7.4V/4000-6000mAh approx,
- Minimum Age Recommendation: 14 years old

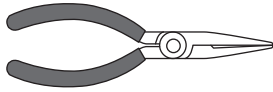
Items required

- Metric 1.5mm, 2.0mm hex tools
- Metric 5.5mm, 7.0mm Nut Driver
- 2 Channel Surface Radio System (Minimum)
- 1/10 ESC, Motor & Pinion Gear
- High-Speed Servo
- 2S LiPo Battery & Compatible Lipo Charger
- Polycarbonate Paint for Bodies
- Tires CA Glue
- Silicon diff oil
- LOK threadlocker

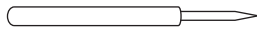
TOOLS REQUIRED

CAUTION: Handle tools carefully!

- Needle Nose Pliers



- Awl



- Sharp Hobby Knife



- Grease



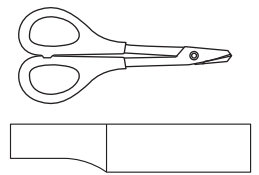
- Wire Cutters



- Screw Cement

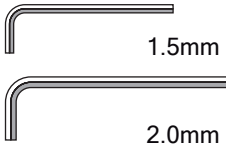


- Round Cutter & Sander



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

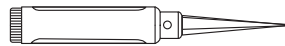
- Hex Wrench



- Ball Differential Grease

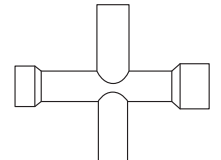


- SP Knife Edge Reamer



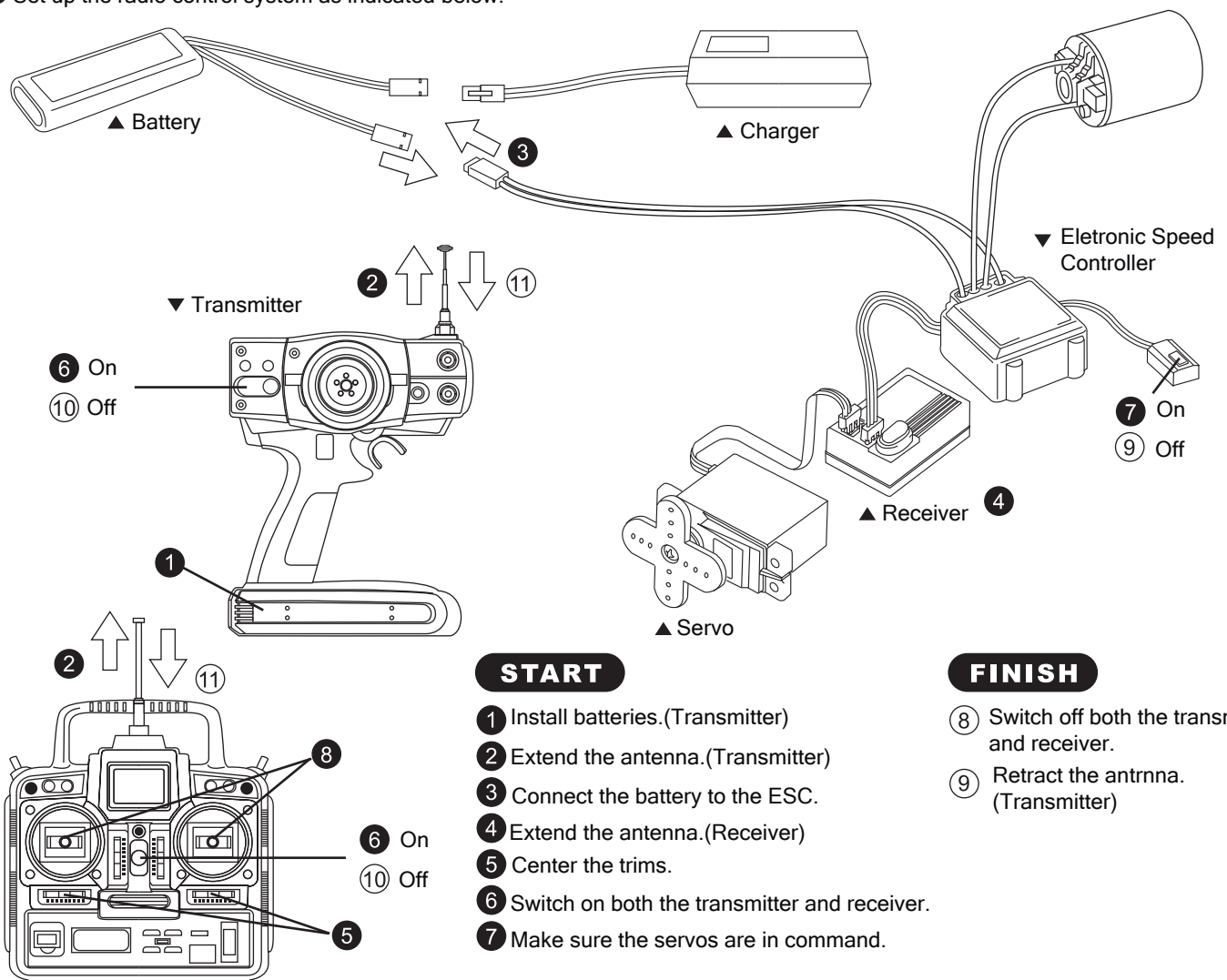
Do not pre-drill as precise drilling of 1mm to 15mm holes can be performed after body shell painted.

- Cross Wrench



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.



● BAG A -----	03-05	● BAG E -----	16-20
Chassis Guard Installation		Front & Rear Shock Assembly	
Servo Saver		Motor Guard set	
Steering Servo		Rear Bumper Set	
● BAG B -----	06-10	Battery Plate	
Front Spindle-Right Side		Tires	
Front Suspension[Left Side]			
Front Shock Stay		● SPARE PARTS & OPTIONAL PARTS ----	21-22
Front Upper Turnbuckle Assembly			
Front Bumper Set		● Gear Diff Gear Ratio Chart -----	23
Turnbuckle Assembly-Steering Rod			
● BAG C -----	10-12		
Rear Chassis Brace (Mid Motor)			
Battery Column			
Rear Hub & CVD			
Rea Suspension Mount			
● BAG D -----	13-15		
Differential Gear			
Motor Mounts [Mid Motor]			
Rear Body Mount Set			

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.

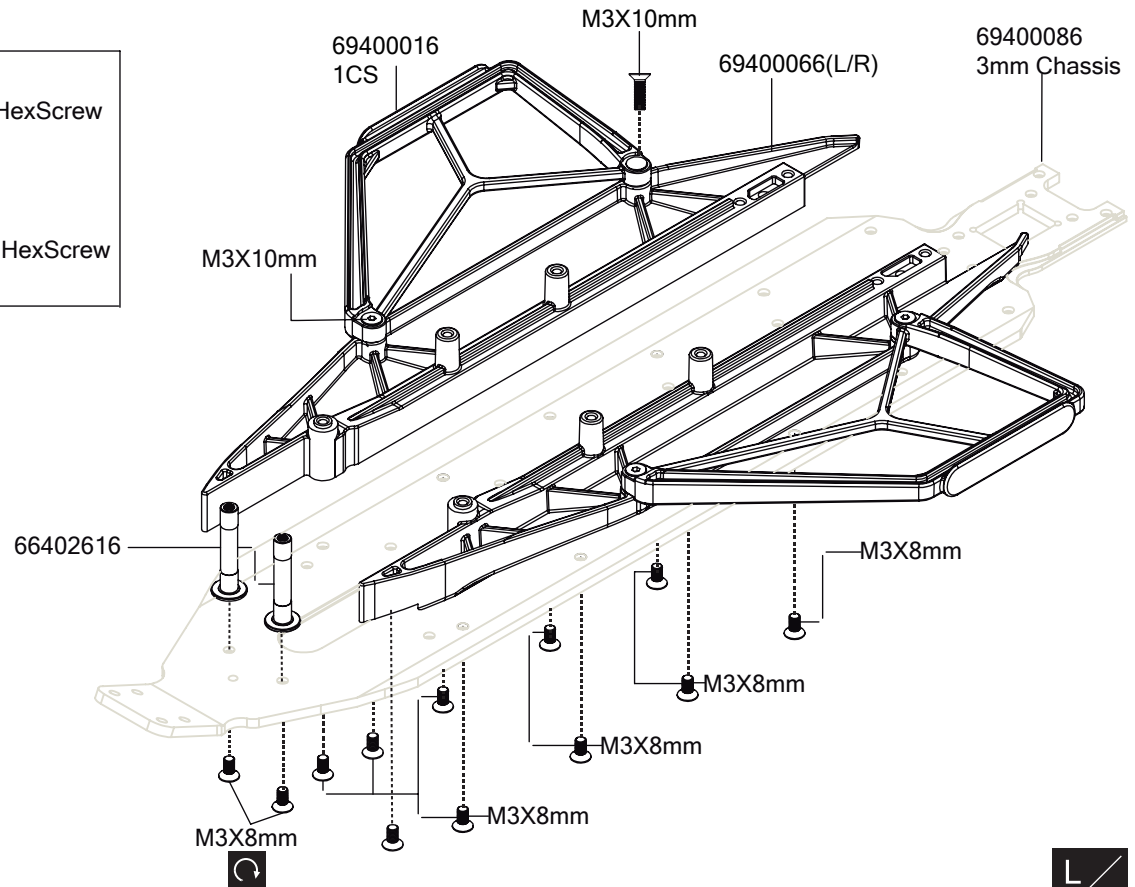


A1 Chassis Guard Installation

 12
M3x8mm Flat Head HexScrew
82400026

 4

M3x10mm Flat Head HexScrew
82400106



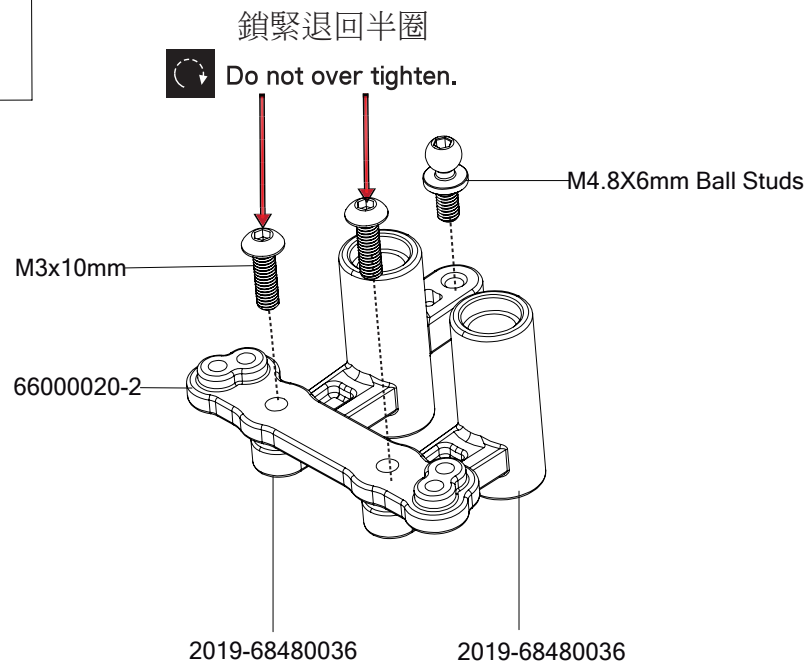
A2 Servo saver



M3X10mm Button Head Cap Screw
80400046

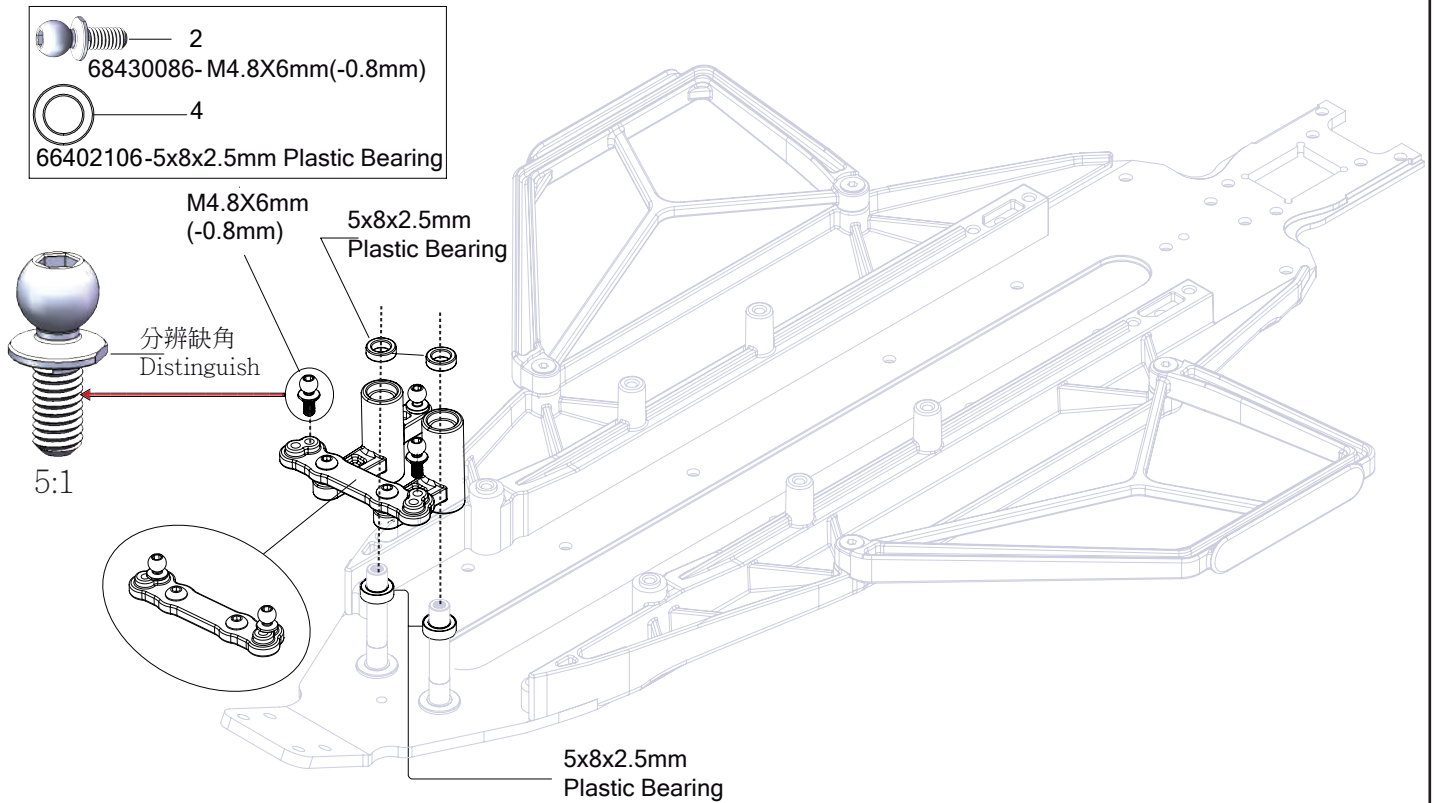


M4.8X6mm Ball Studs
68430036



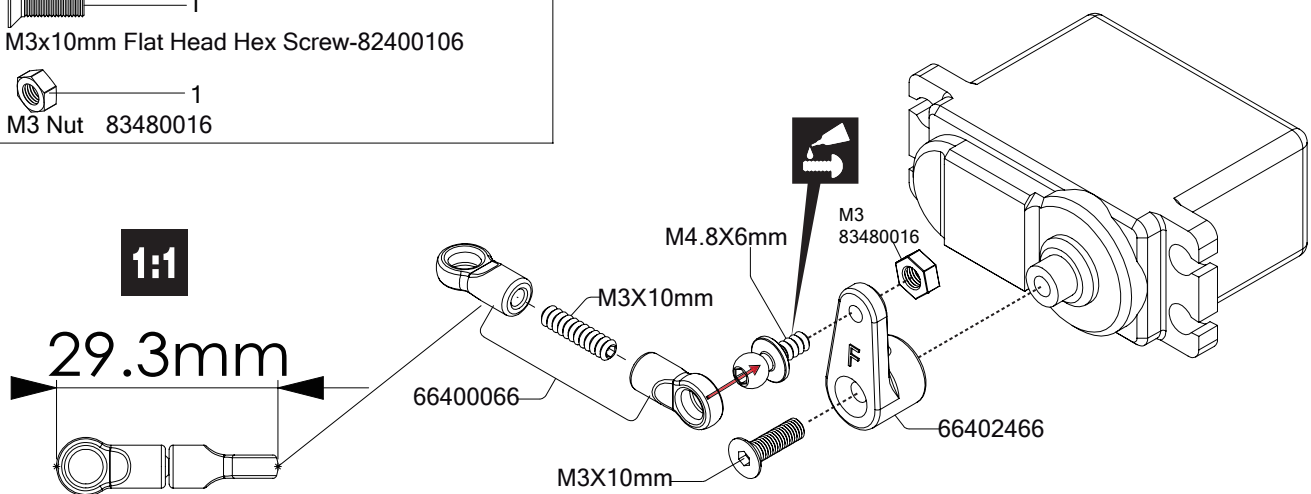


A3 Servo saver



A4 Steering Servo

- 1
M3x10mm Set Screw-87400026
- 1
M4.8mmx6mm Ball Studs-68430036
- 1
M3x10mm Flat Head Hex Screw-82400106
- 1
M3 Nut 83480016

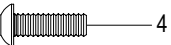




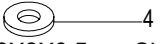
A5 Steering Servo



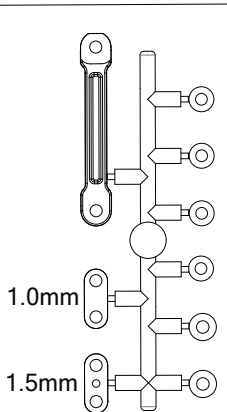
M3X8mm Button Head Hex Screw
80400036



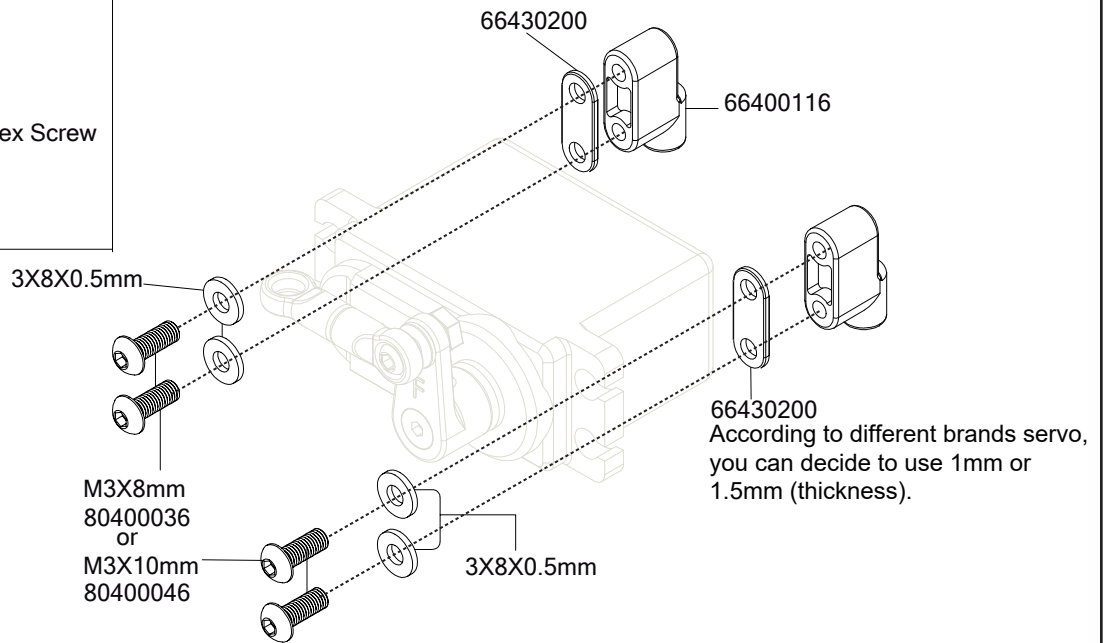
80400046
M3X10mm Button Head Hex Screw



3X8X0.5mm Shim
85000010



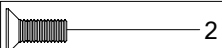
66430200



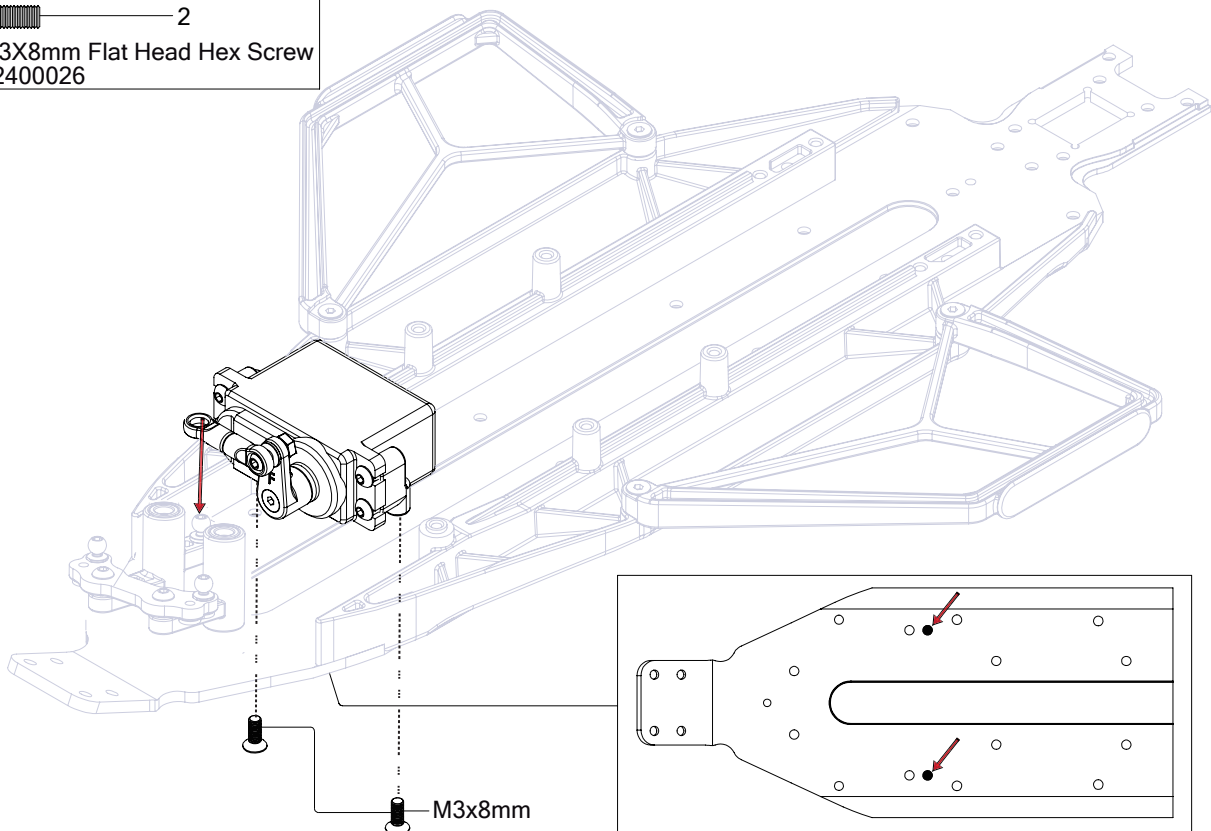
66430200
According to different brands servo,
you can decide to use 1mm or
1.5mm (thickness).



A6 Steering Servo



M3X8mm Flat Head Hex Screw
82400026

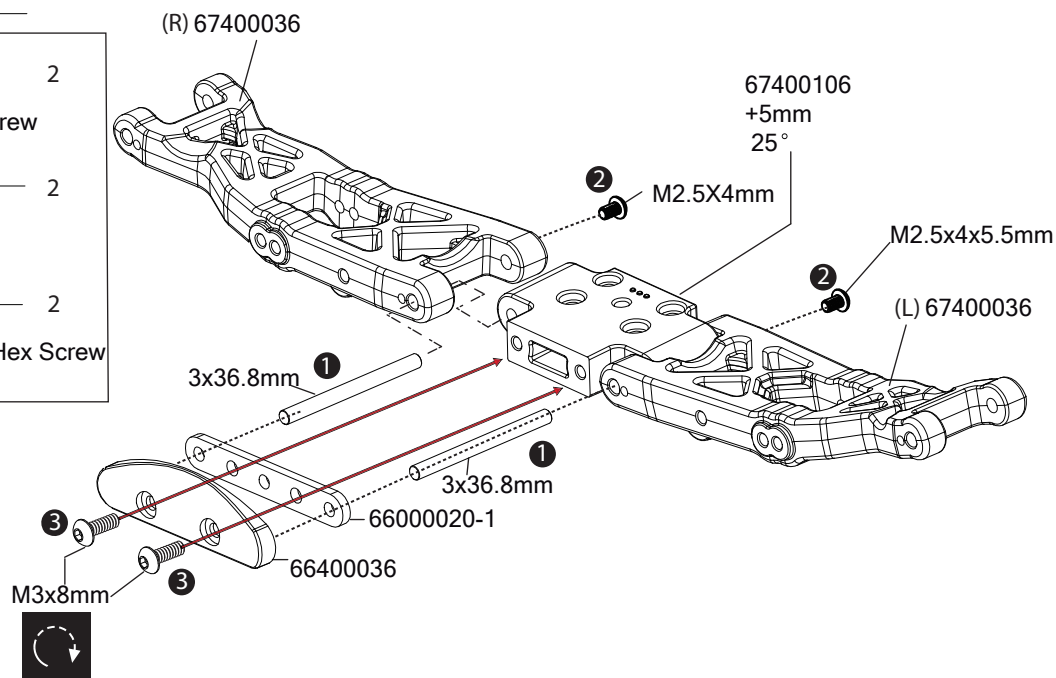


Part Bags used.



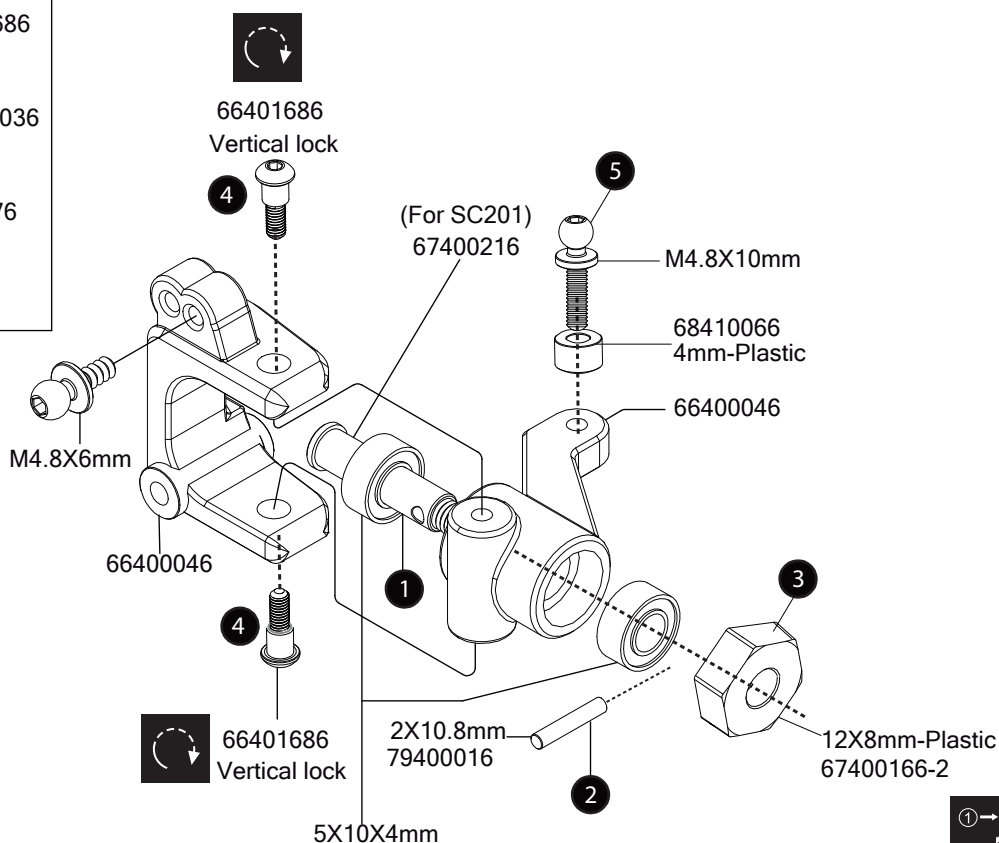
B1 Front Suspension

	2
3X8mm Button Head Hex Screw 80400036	
	2
3x36.8mm Pin 66430110	
	2
2.5x4x5.5mm Button Head Hex Screw 80400016	



B2 Front Spindle[Left Side]

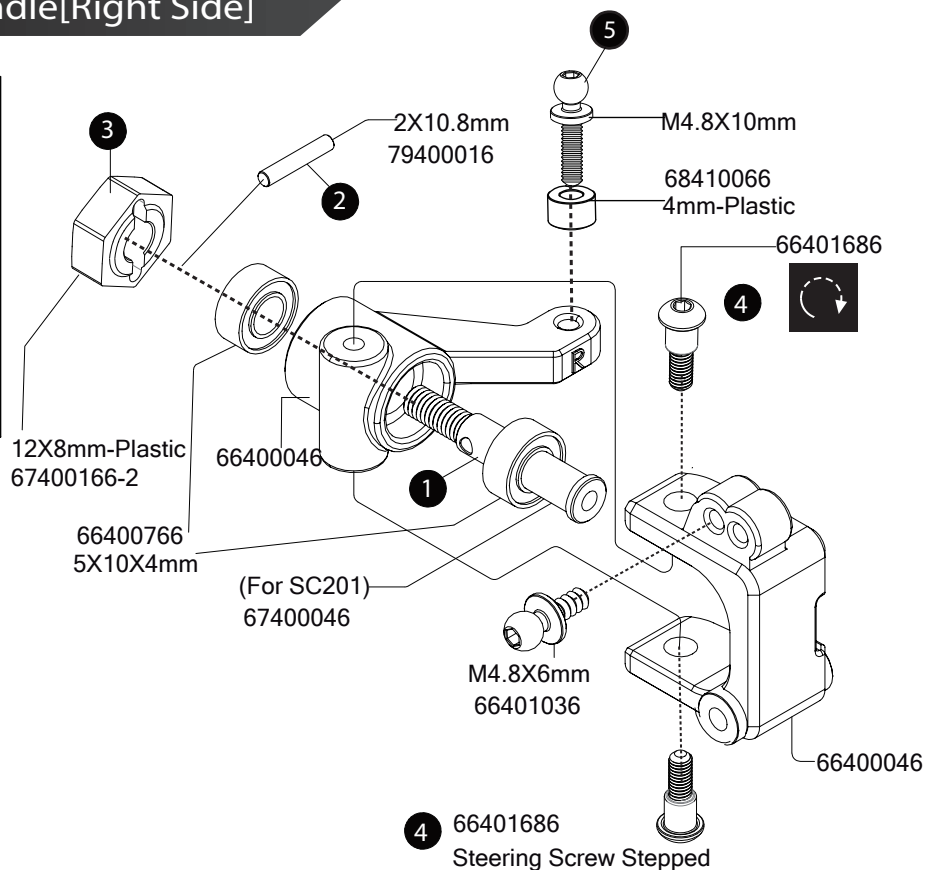
	2
Steering Screw Stepped -66401686	
	1
M4.8mmx6mm Ball Studs-68430036	
	1
M4.8x10mm Ball Studs - 68430076	
	2
5x10x4mm ZZ Ball Bearing 89430010	



B3 Front Spindle[Right Side]



- 2
Steering Screw Stepped -66401686
- 1
M4.8mmx6mm Ball Studs-68430036
- 1
M4.8x10mm Ball Studs- 68430076
- 2
5x10x4mm ZZ Ball Bearing
89430010



B4 Front Suspension[Left Side]

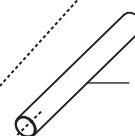


- 2
M2.5x4x5.5mm
80400016
- 2
3x27.8mm Pin
79400106

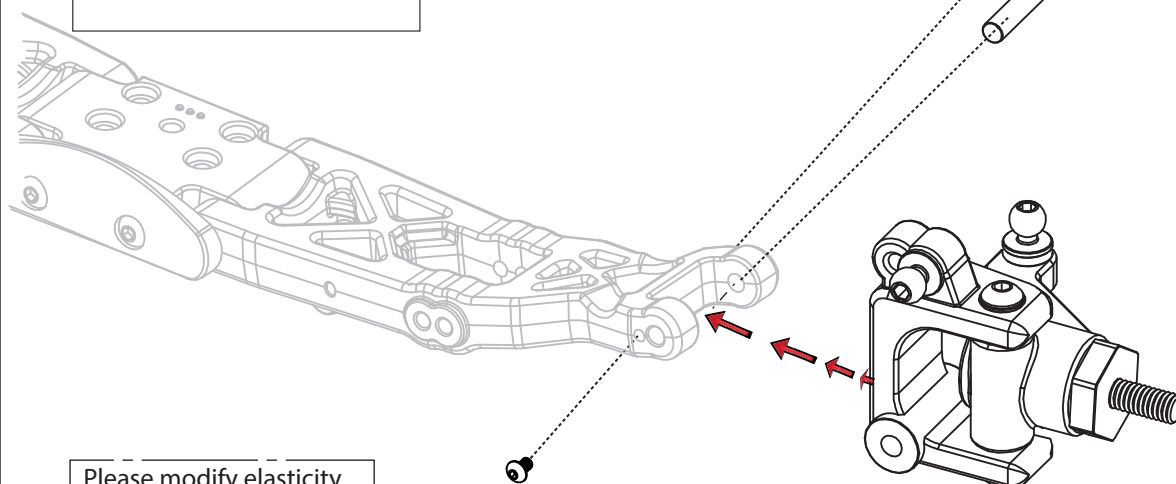
Please modify elasticity
by this screw.
For swing arm smooth



M2.5x4x5.5mm



3X27.80mm



Please modify elasticity
by this screw.
For swing arm smooth



M2.5x4x5.5mm
80400016



Part Bags used.



Assemble in the
specified order.



Assemble left and right
sides the same way.

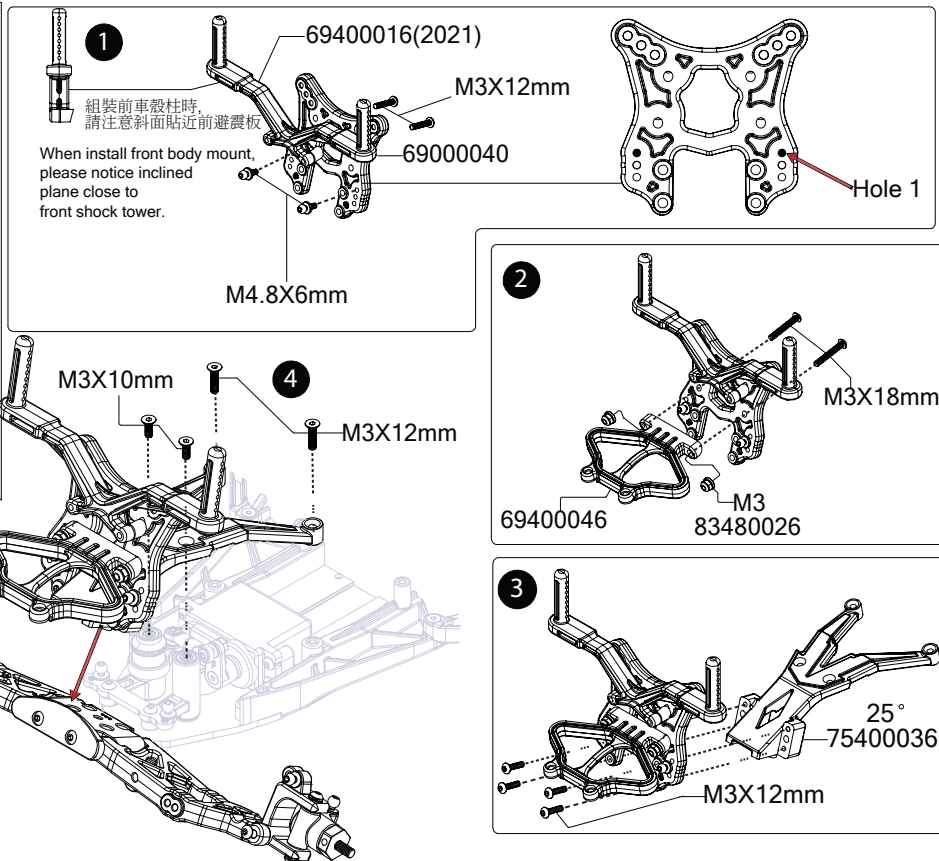


Do not over tighten.

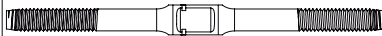
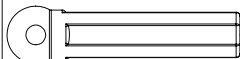


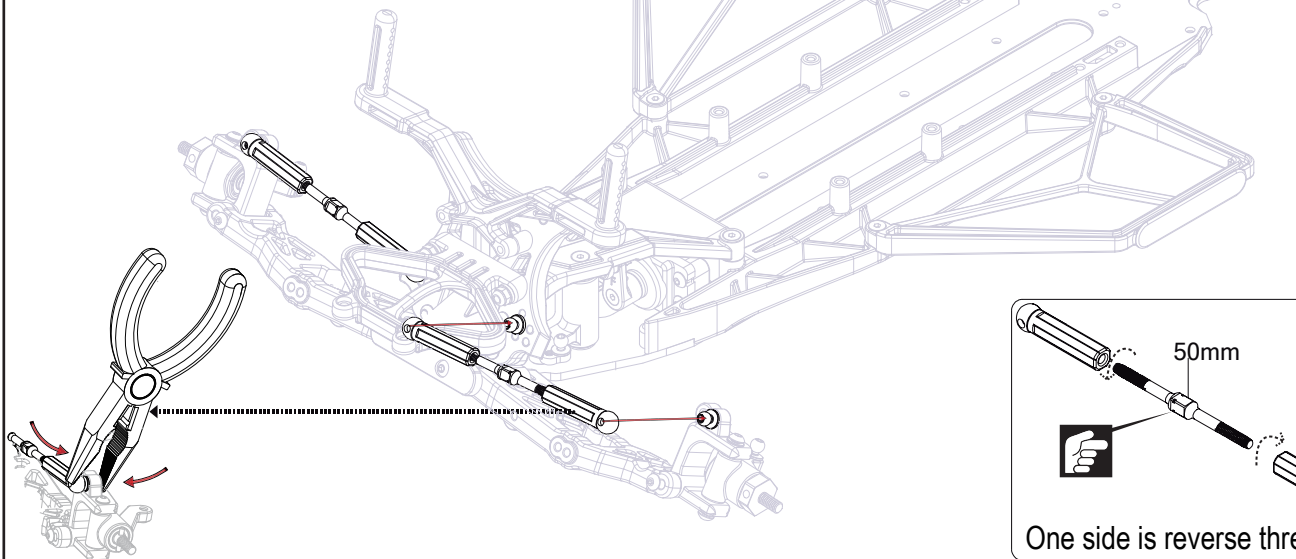
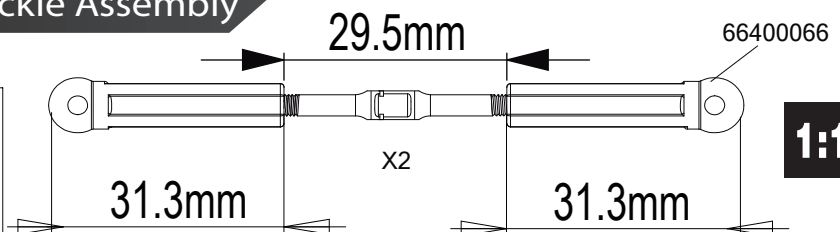
B5 Front Shock Stay

-  2
M3x10mm Flat Head Screw
82400106
-  2
M3x12mm Flat Head Screw
82400036
-  6
M3x12mm Button Head Hex Screw
80400206
-  2
M3x18mm Button Head Hex Screw
80400196
-  2
M4.8x6mm Ball Studs
68430036
-  2
M3 Lock Nut
83480026



B6 Front Upper Turnbuckle Assembly

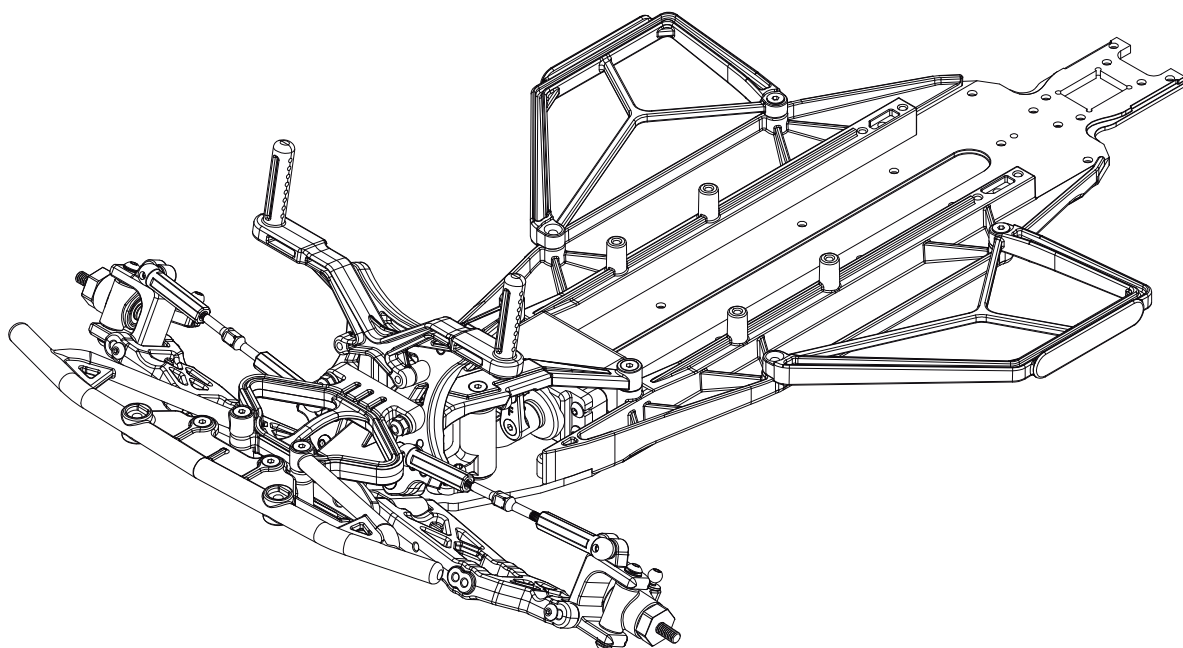
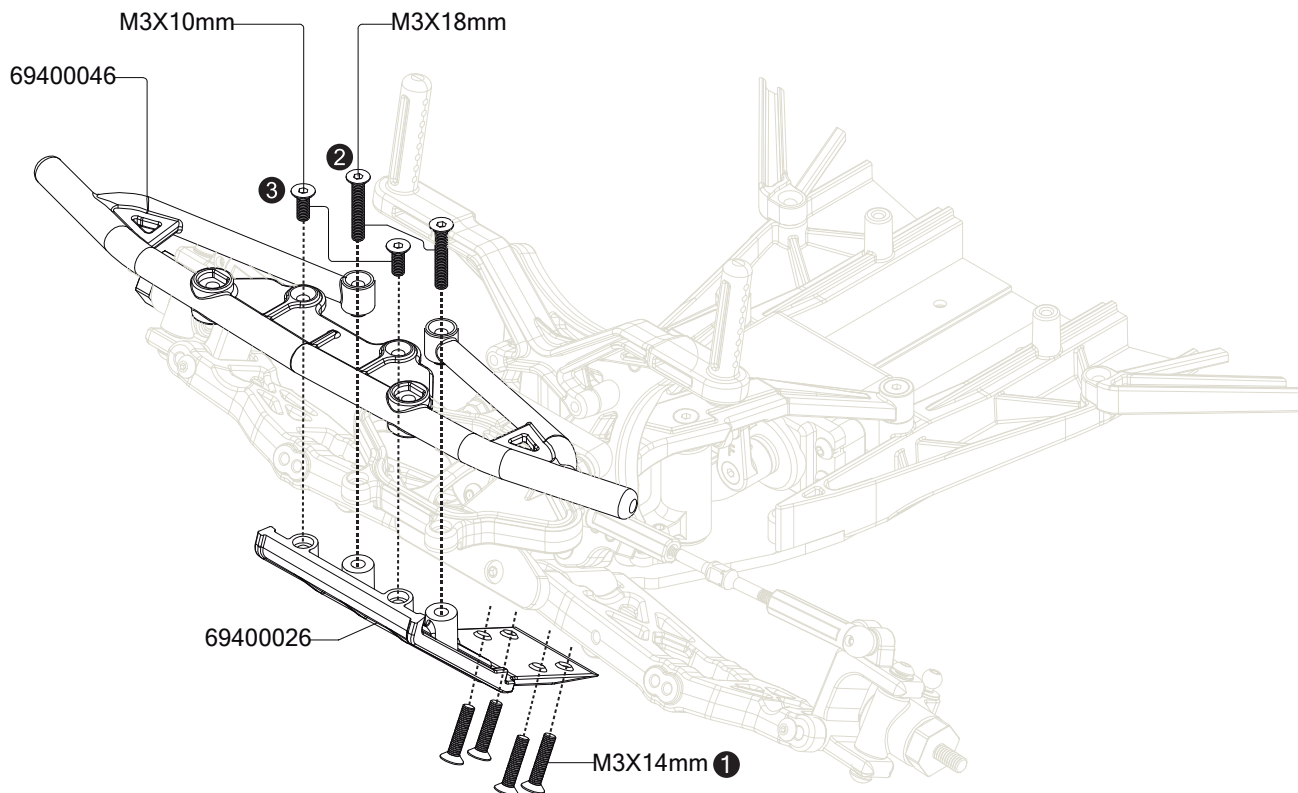
-  2
50mm Turnbuckle Rods
67410026
-  4
Shock Ball End&Spring Cupset&Rod End
66400066





B7 Front Bumper Set

-  2
M3X10mm Flat Head Hex Screw -82400106
-  4
M3X14mm Flat Head Hex Screw -82400046
-  2
M3X18mm Flat Head Hex Screw -82400126



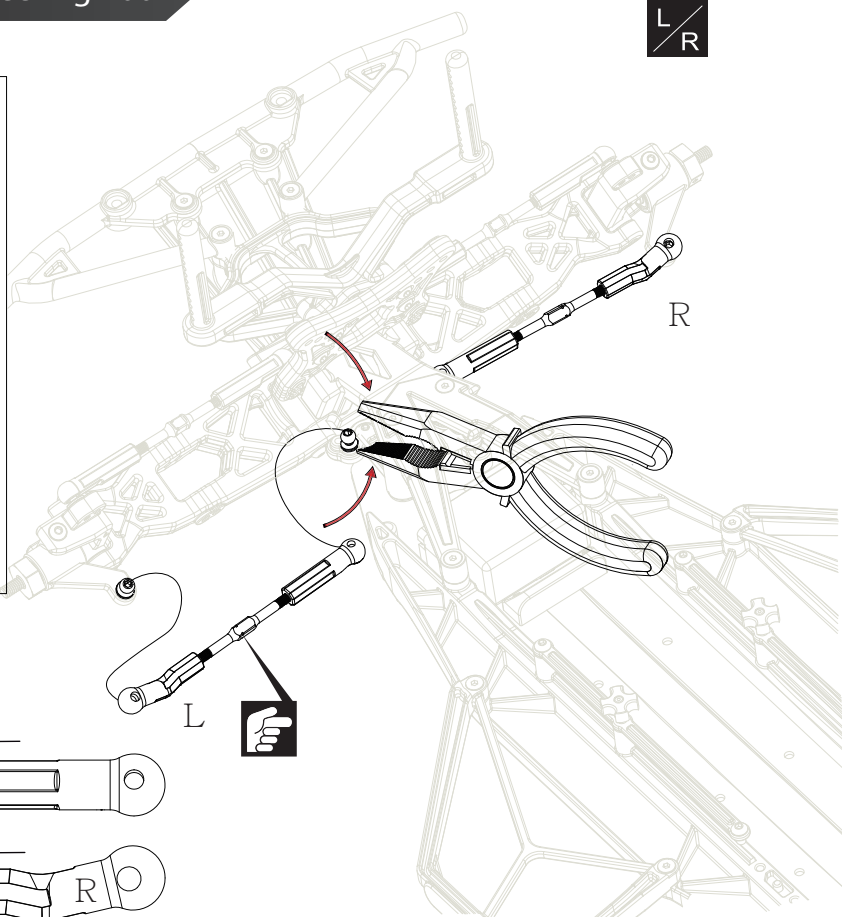
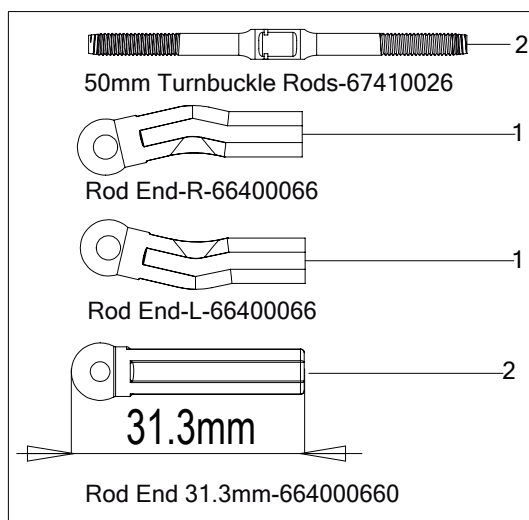
Part Bags used.



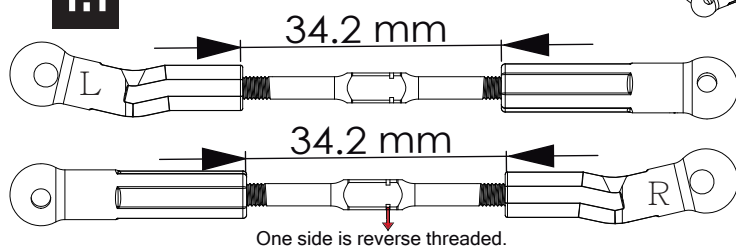
Assemble in the specified order.



B8 Turnbuckle Assembly-Steering Rod



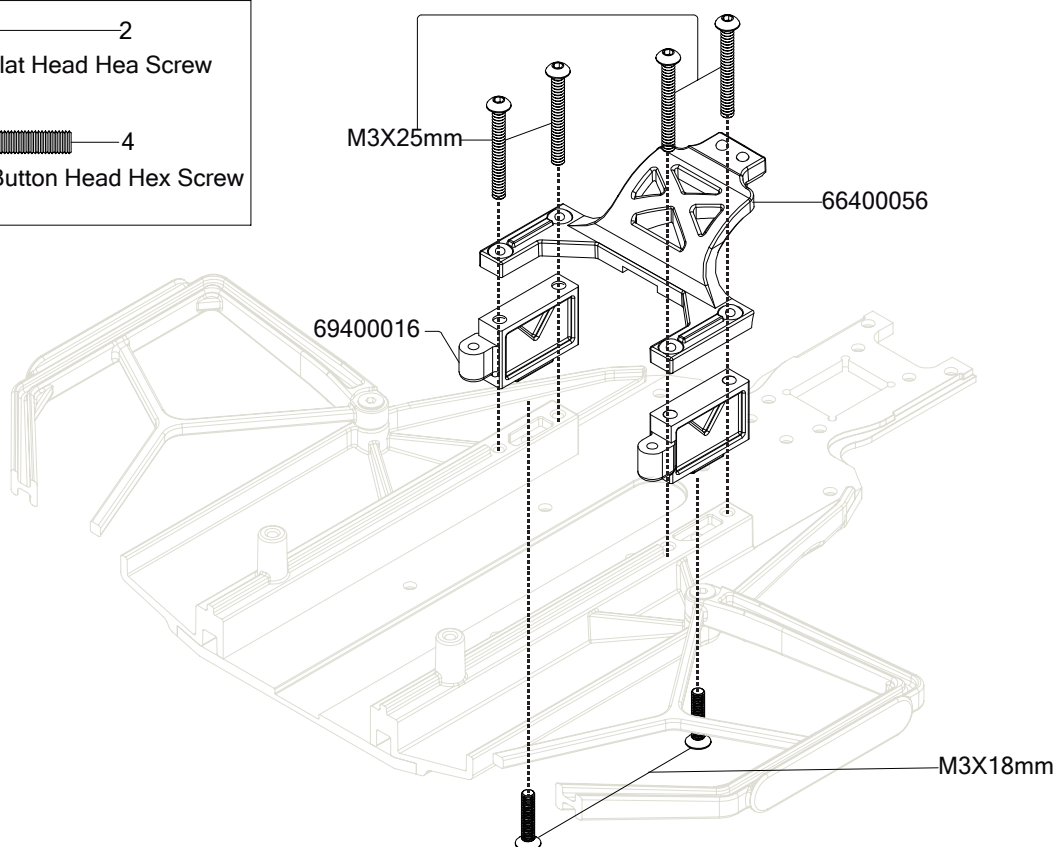
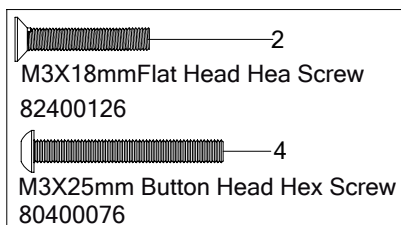
1:1



One side is reverse threaded.



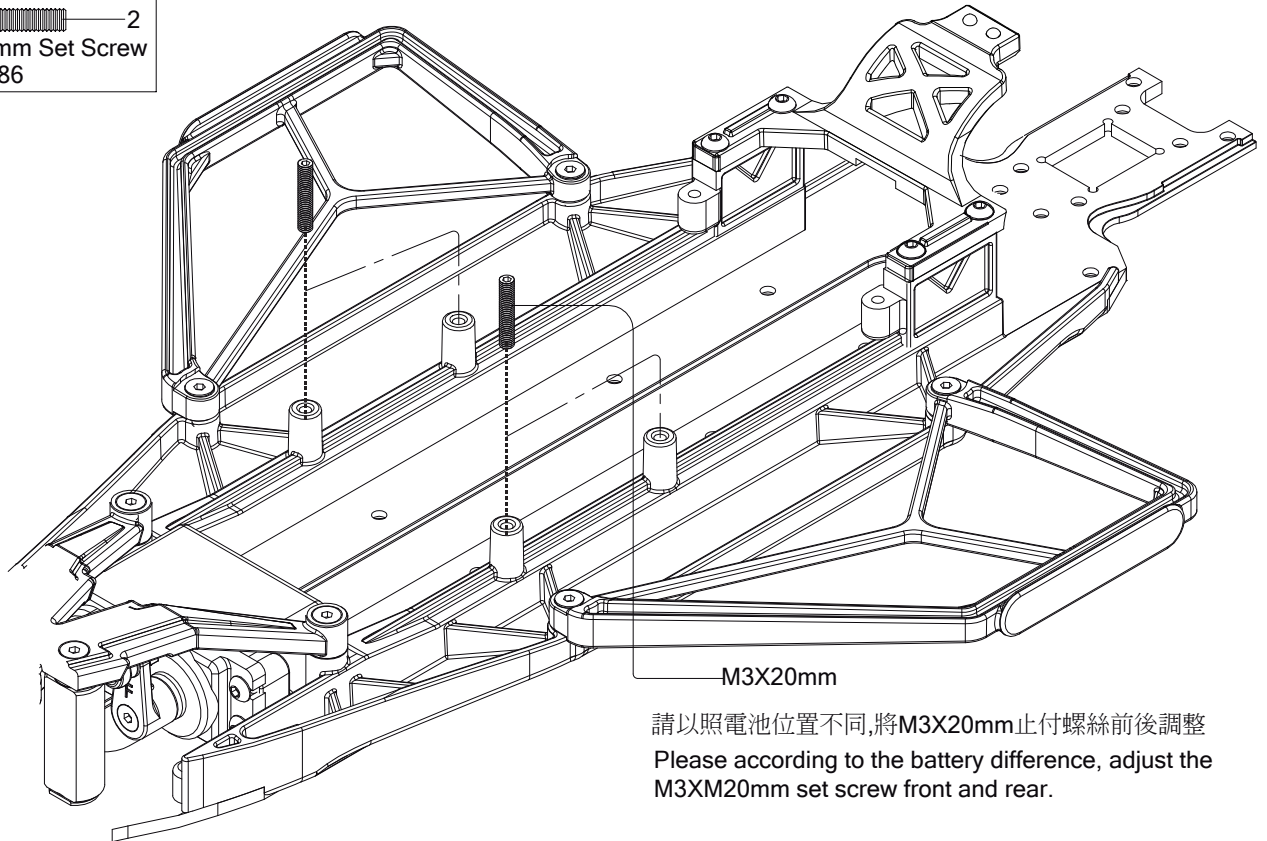
C1 Rear Chassis Brace (Mid Motor)





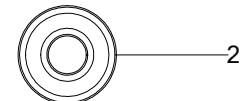
C2 Battery Column

2
M3X20mm Set Screw
87400086

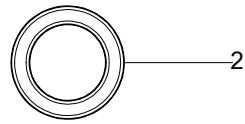


C3 Rear Hub & CVD

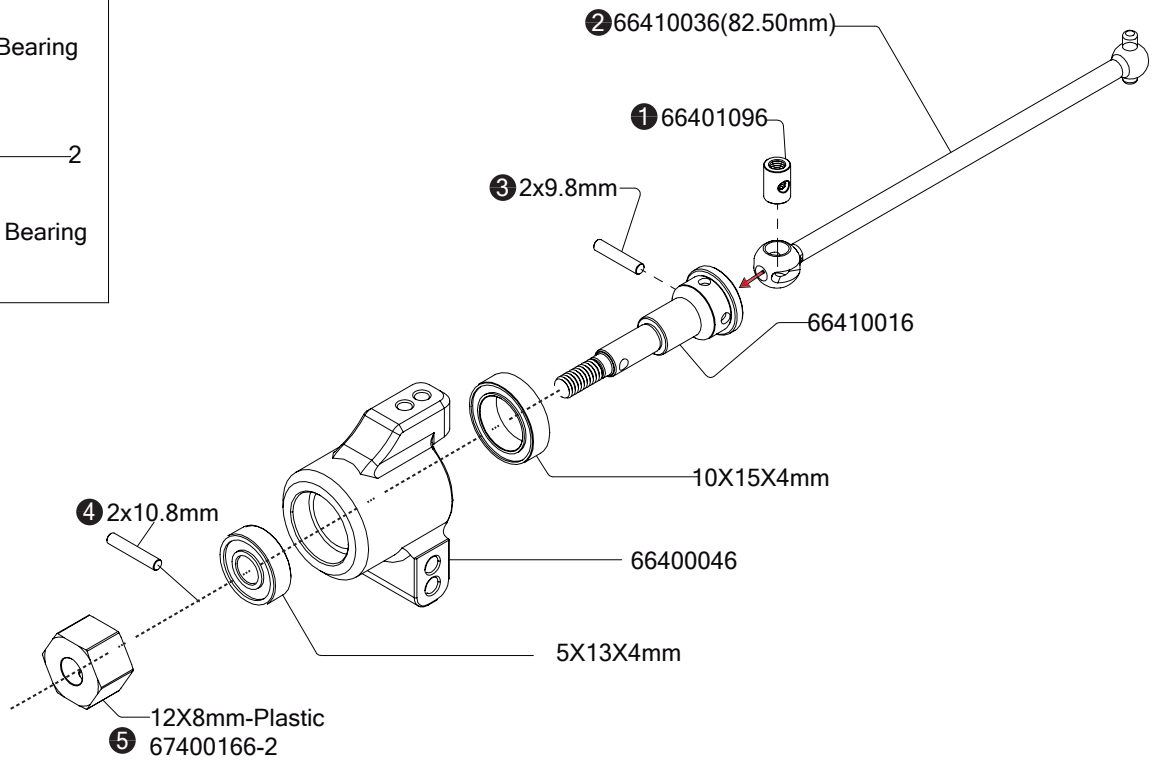
x2 L/R



5X13mm Ball Bearing
89430020



10X15mm Ball Bearing
89430030



Part Bags used.



Assemble left and right
sides the same way.



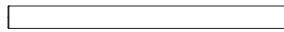
Assemble as many times as
specified (here:twice).



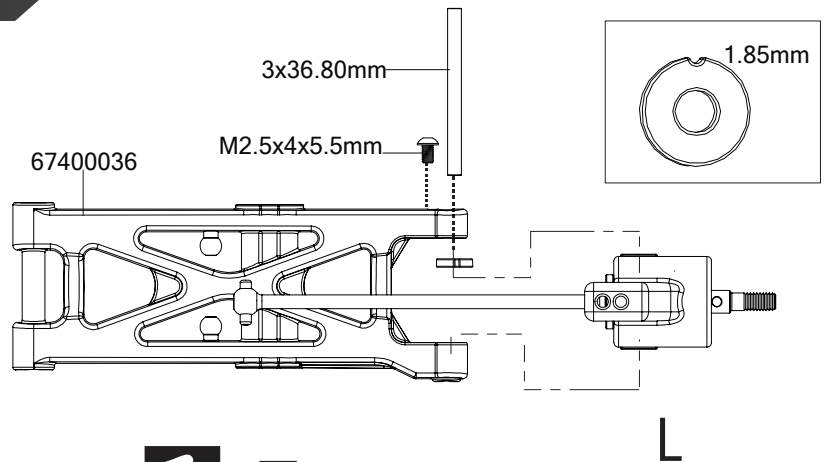
C4 Rear Hub



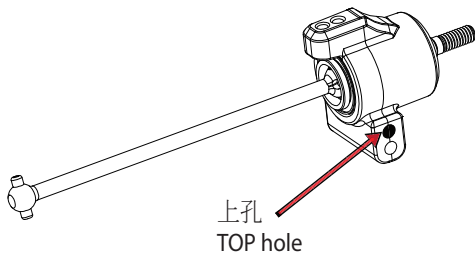
2
M2.5x4x5.5mm Button Head Hex Screw
80400016



2
3x36.8mm pin-66430110



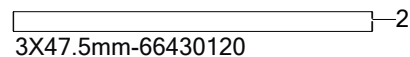
Fornt
車頭



C5 Rea Suspension Mount



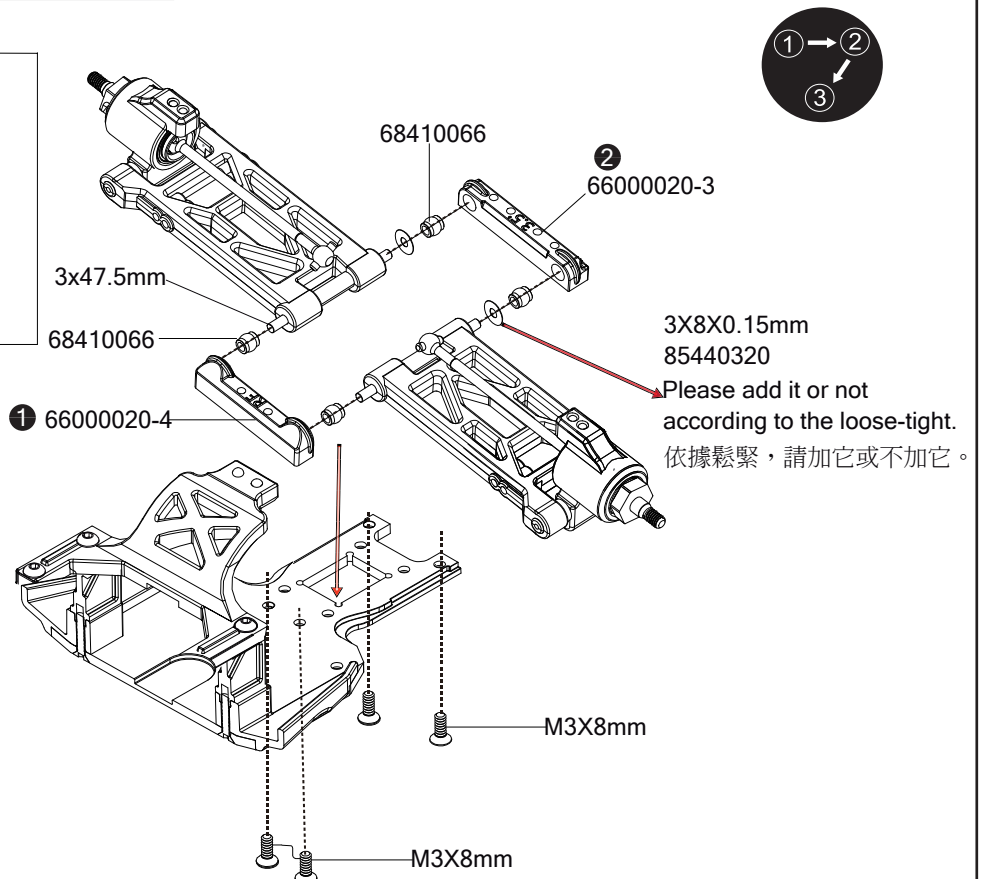
4
M3X8mm Flat Head Hex Screw
82400026



2



2
85440320
3X8X0.15mm Washer



OP Parts Suspension Mount Aluminum

RF 71400086

RR 1.5° 71400406

RR 2.5° 71400156

RR 3° 71400096

RR 3.5° 71400166





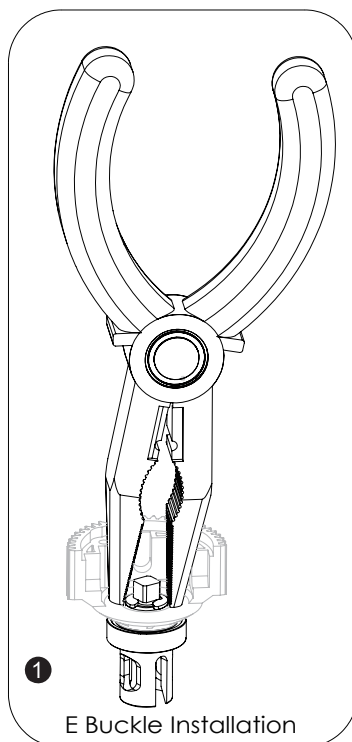
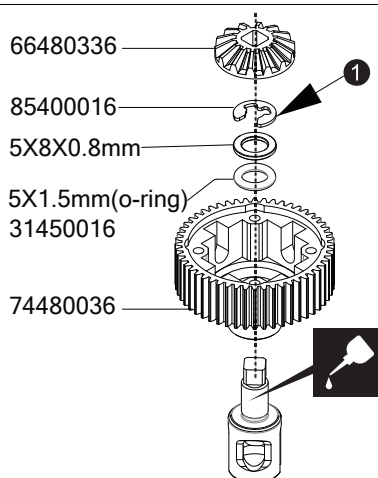
D1 Gear Differential

4 80000021
M2.5X8mm Flat Head Screw

2
5X8x0.8mm Shim
85440170

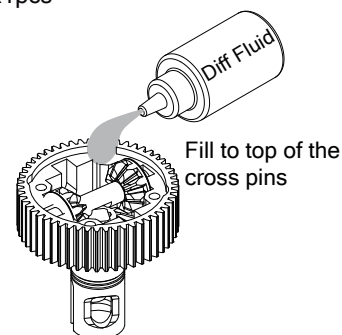
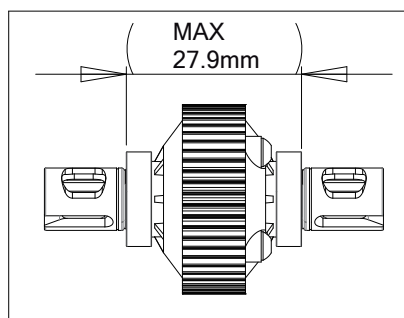
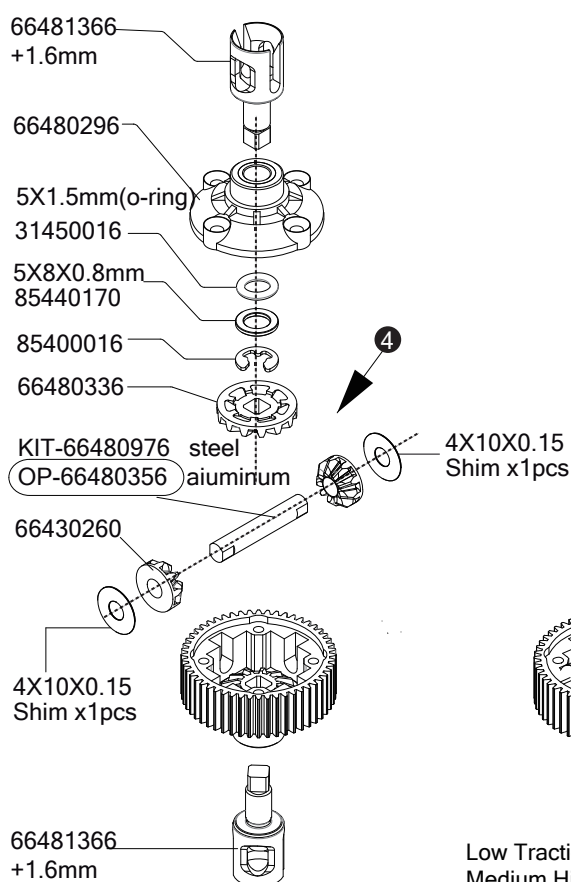
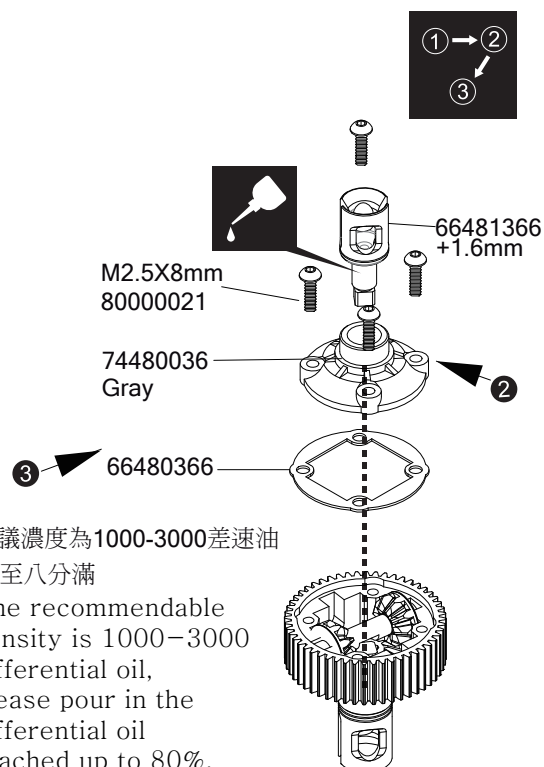
2
4X10x0.15mm Shim
85440160

2
3.5mmE buckle
85400016



建議濃度為1000-3000差速油
灌至八分滿

The recommendable
density is 1000-3000
differential oil,
please pour in the
differential oil
reached up to 80%.



Low Traction 5000cst
Medium High Traction 7000cst
Super High Traction 10000cst



Part Bags used.



Assemble in the
specified order



Apply oil.



D2 Motor Mounts [Mid Motor]

7
5X10X4mm Ball Bearing
89430010

2
10X15X4mm Ball Bearing
89430030

1
3x14mm Button Head Hex Screw
80400056

1
3x20mm Button Head Hex Screw
80400066

2
3x32mm Button Head Hex Screw
80400086

1
3x36mm Button Head Hex Screw
80400096

2
M4.8x6mm Ball Studs
68430036

1
Slipper Spring
66480826

1
M4 Lock Nut
83400036

Assembly Video

66402666
66402695
M4

5X10X4mm
7pcs

M4.8X6mm

66400526

79400056

66480040
steel 28t

M4.8X6mm

66400926
MM

Do not over tighten.

M3x32mm

M3x14mm

M3x36mm

此處螺絲鎖入勿緊迫

M3x20mm

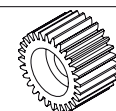
66400516

66400466

66480306

kit-71400116(81t)
op-66480606(83t)

Option Parts



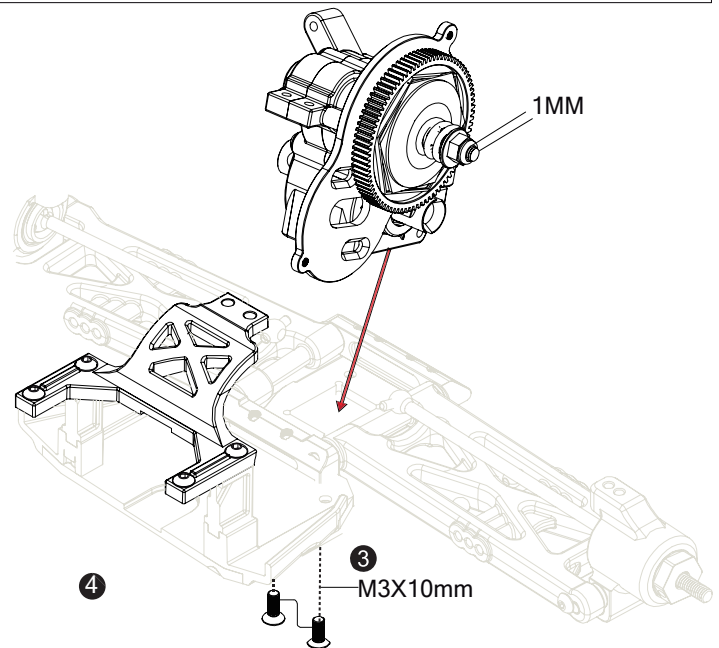
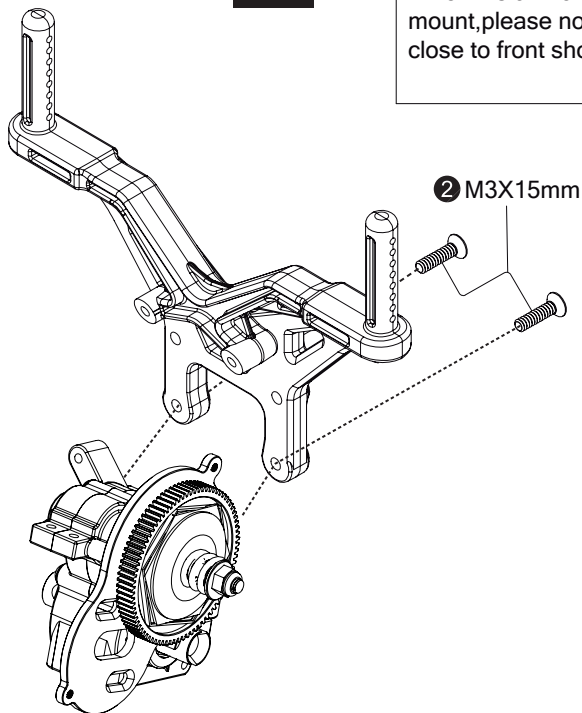
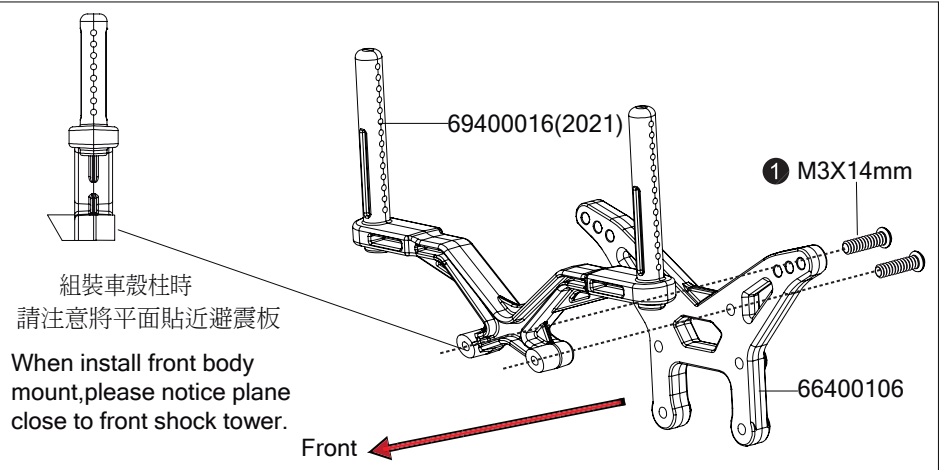
28t(Aluminum)
66480010

如果馬達使用10.5t以下規格
建議使用此改裝零件
If you use the motor which below
10.5 t, we recommend you to use
this modified parts.

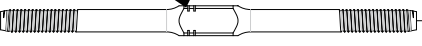


D3 Rear Body Mount Set

-  2
M3X14mm Button Head Hex Screw
80400056
-  2
M3X15mm Flat Head Hex Screw
82400176

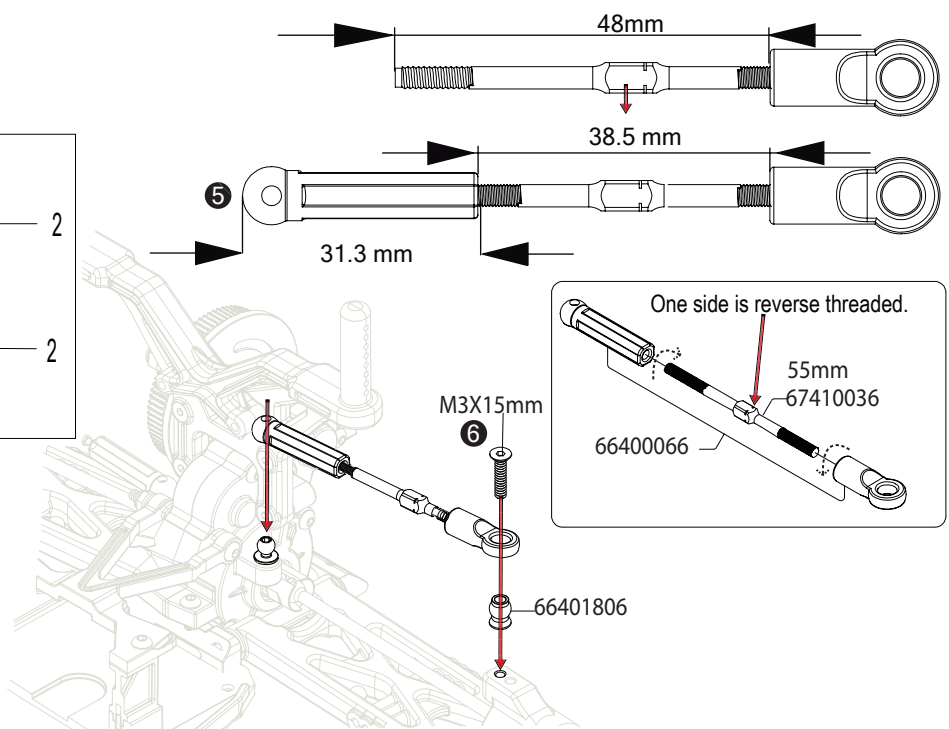


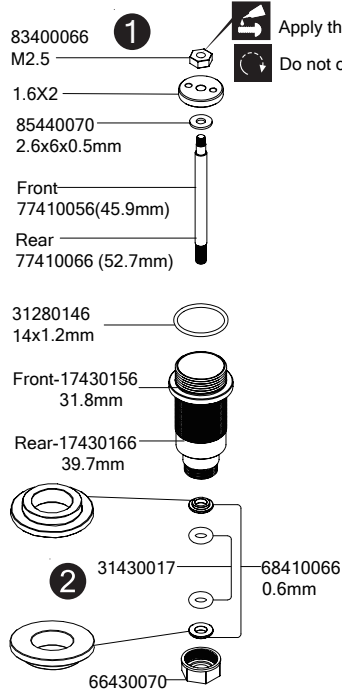
One side is reverse threaded.

-  2
77430066-55mm Turnbuckles

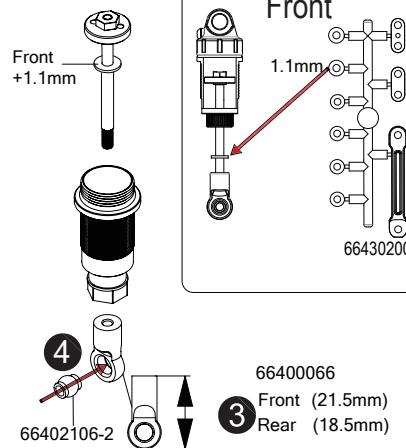
-  2
66401806-Ball Joint

-  2
M3x15 mm Flat Head Screws
82400176
-  2
M3x10 mm Flat Head Screws
82400106

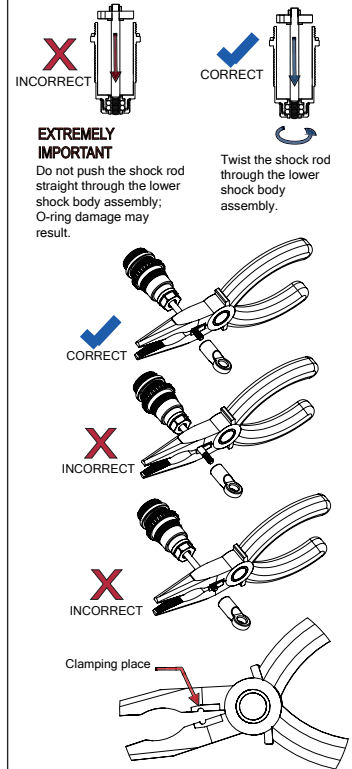
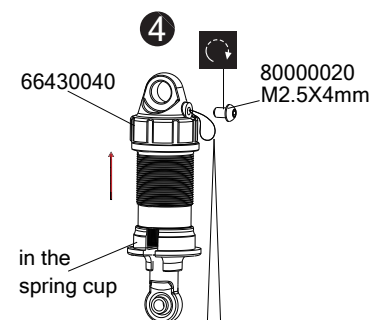
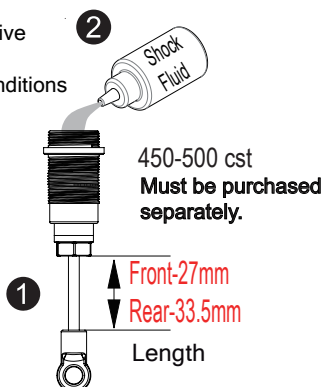


 BAG
E

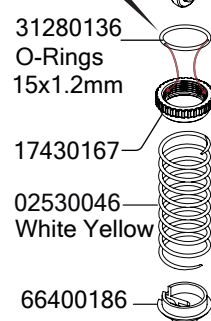
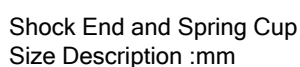
Do not over tighten



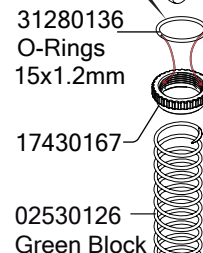
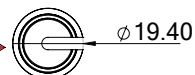
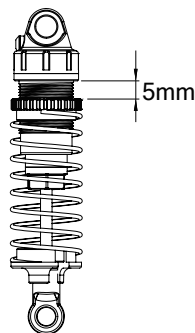
Rear Buildx2
Front Buildx2

 BAG
E

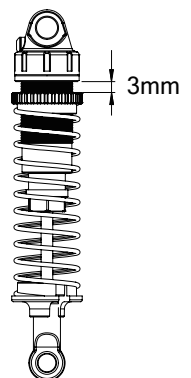
Slowly push the shock shaft all the way up, wipe away any excess oil that has seeped out, and screw in the bleeder screw.

 BAG
E

5mm



3mm

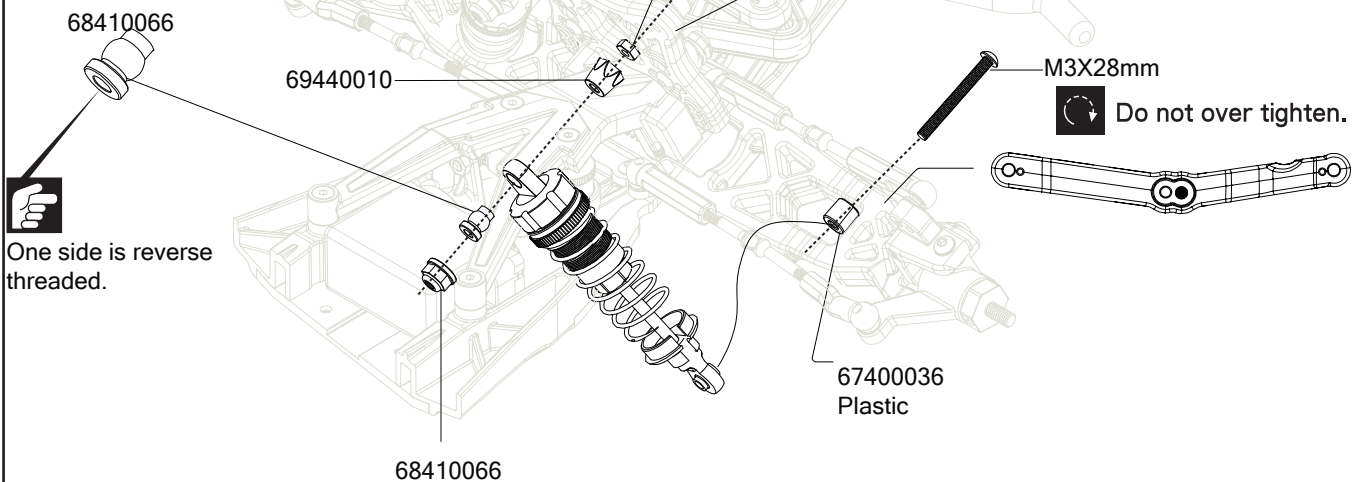
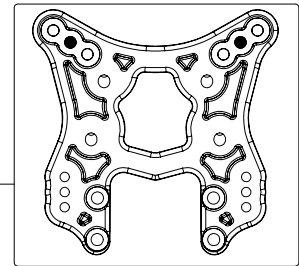




E2 Front Shock Assembly

- 4
M3X28mm Button Head Hex Screw
80400126
- 2
83480016
M3 Nut

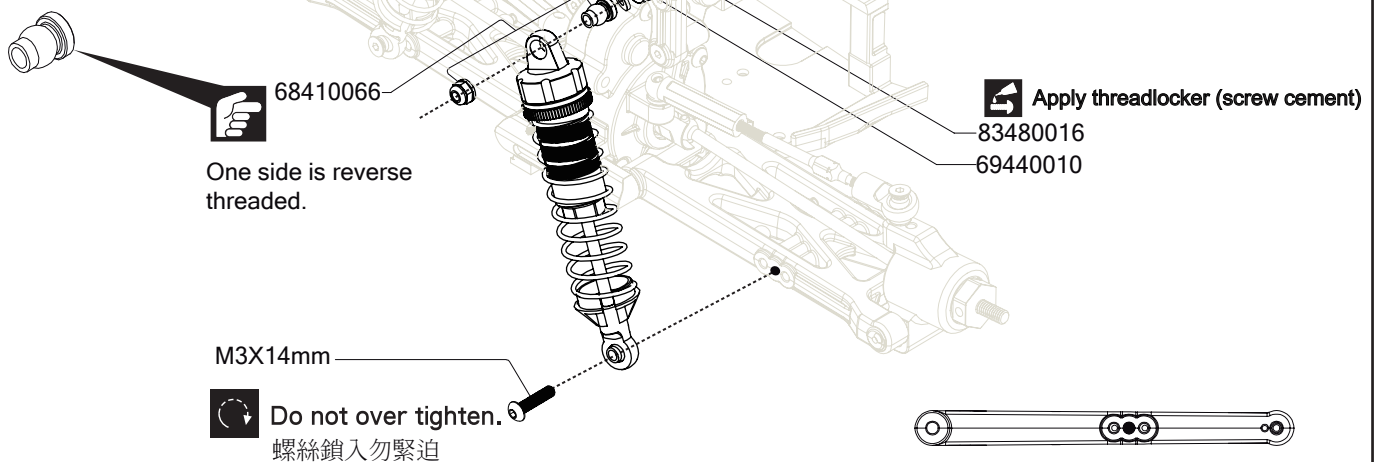
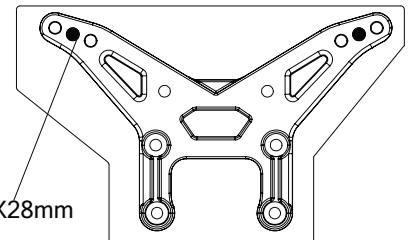
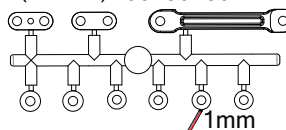
Apply threadlocker (screw cement)



E3 Rear Shock Assembly

- 2
M3X14mm Button Head Hex Screw
80400056
- 2
M3X28mm Button Head Hex Screw
80400126
- 2
83480016
M3 Nut

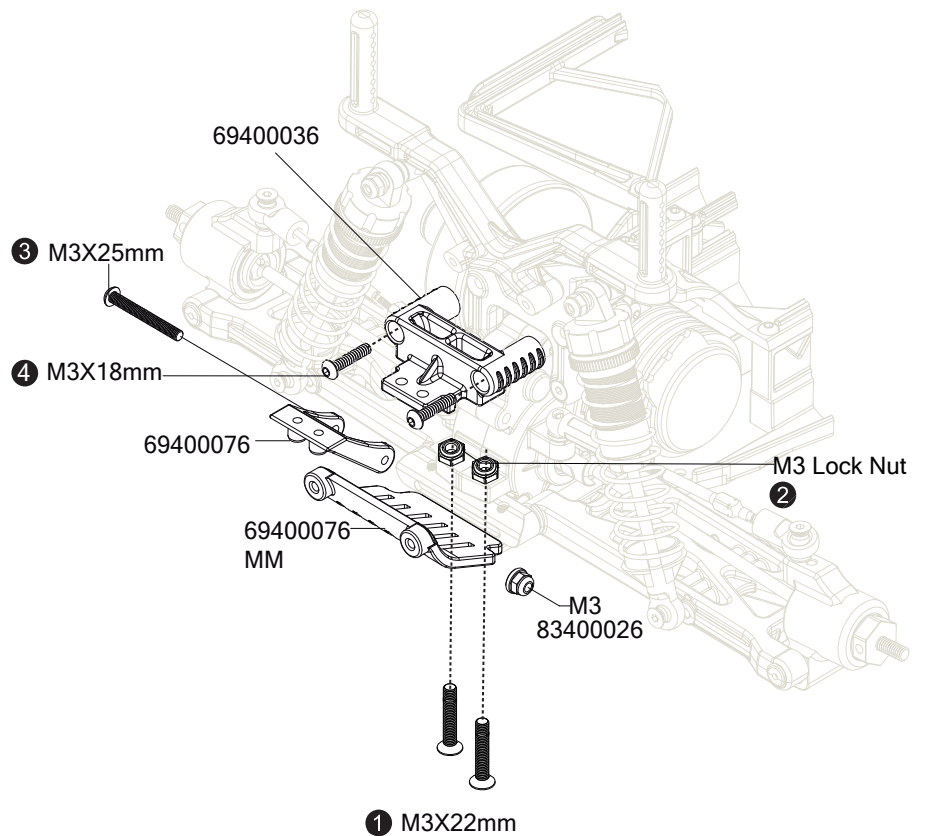
(A BAG) 66430200





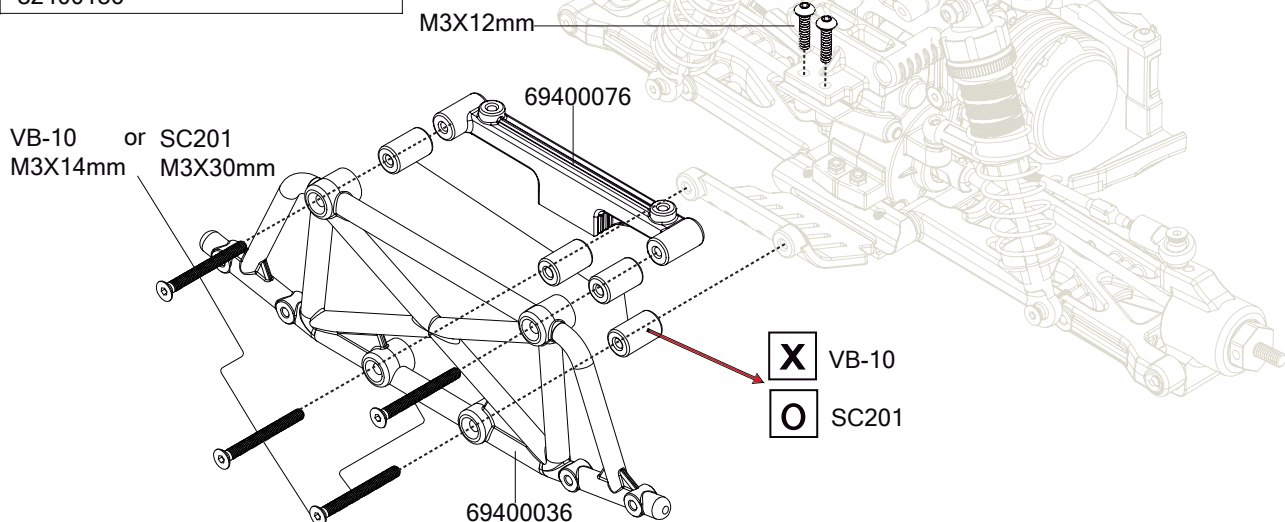
E4 Motor Guard set

-  2
M3X18mm Button Head Hex Screw
82400126
-  1
M3X25mm Button Head Hex Screw
80400076
-  3
M3 Lock Nut-83480026
-  4
M3X22mm Flat Head Hex Screw
82400156



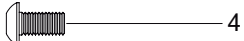
E5 Rear Bumper Set

-  2
M3X12mm Button Head Hex Screw
80400206
-  4
M3X14mm Flat Head Hex Screw
82400046
-  4
M3X30mm Flat Head Hex Screw
82400136





E6 Battery Plate



4

M3X6mm Button Head Hex Screw
80400026



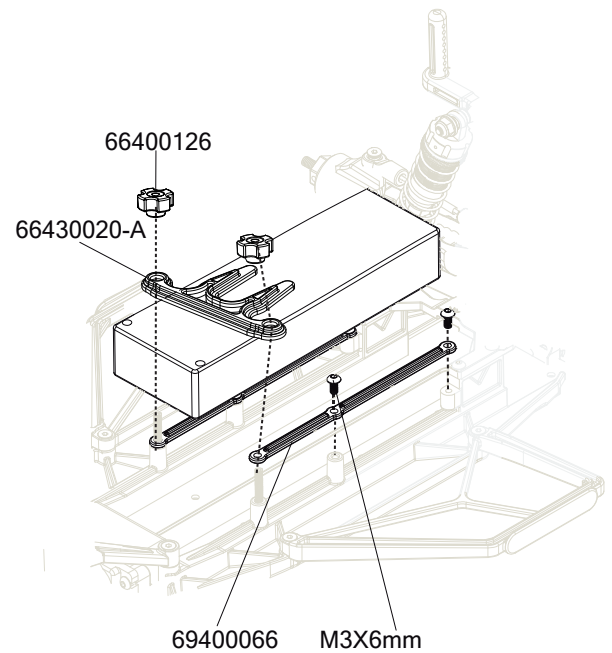
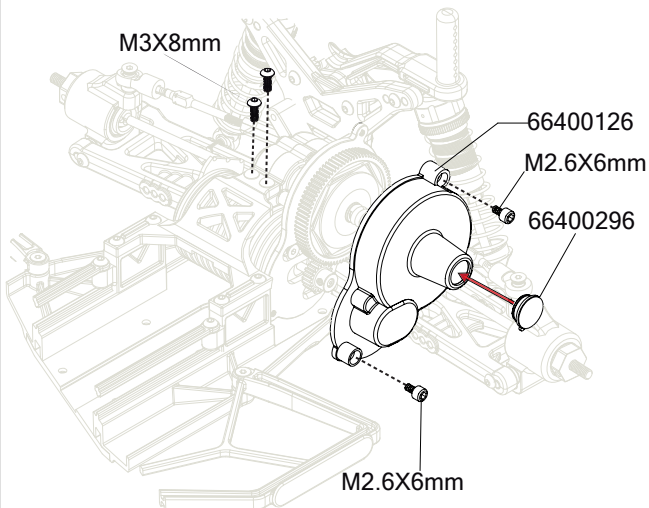
2

2.6x6mm Cap Screw
87400046



4

M3X8mm Button Head Hex Screw
80400036



E7 Battery Plate



4

M3X8mm Flat Head Hex Screw
82400026



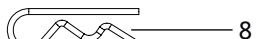
2

M3X6mm Flat Head Hex Screw
82400016



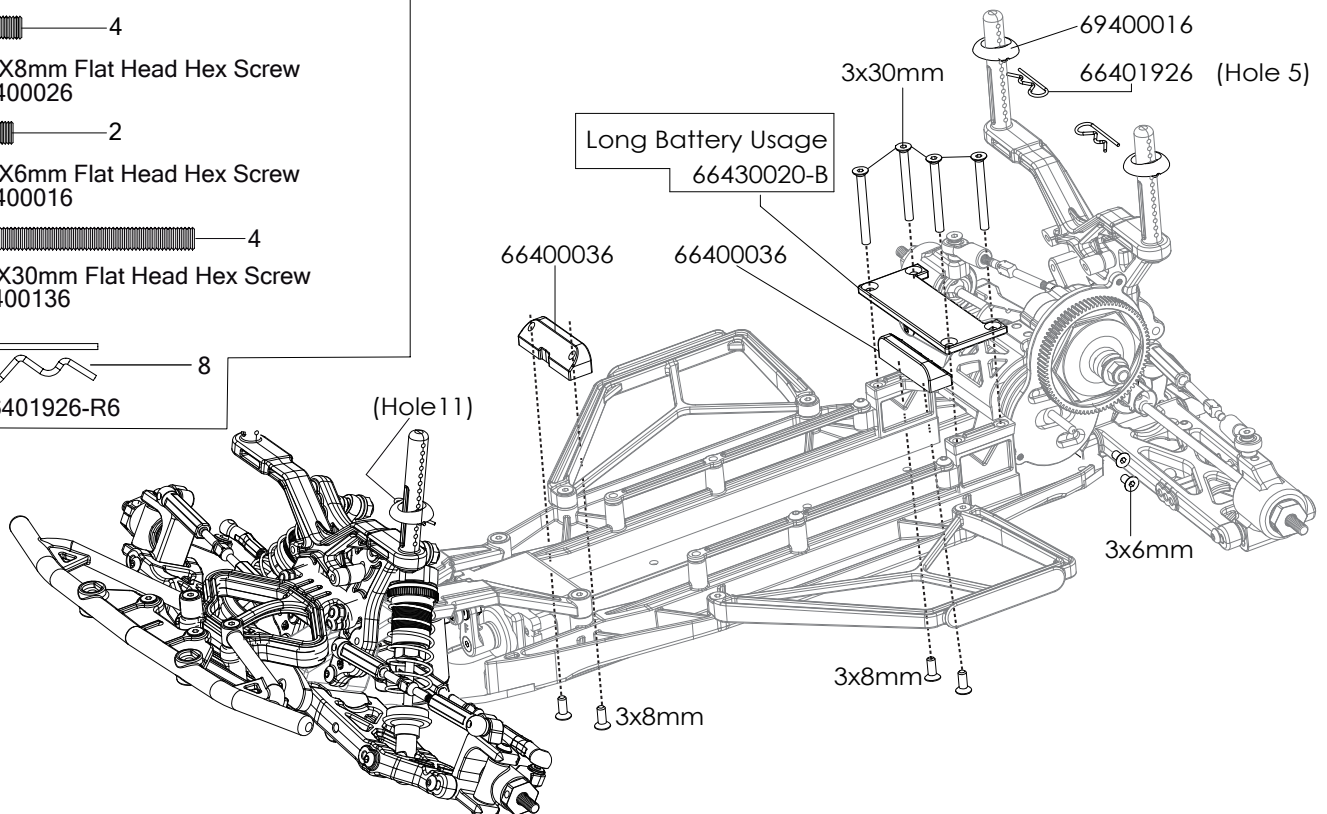
4

M3X30mm Flat Head Hex Screw
82400136



8

66401926-R6



Part Bags used.



E8 Tires



M4 Lock Nut
83400076

4



3X8X0.5mm Shim
85000010

4



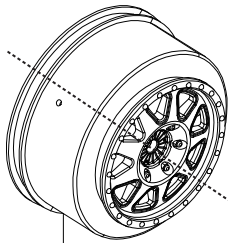
M3X8mm Button Head Hex Screw
80400036

4



M3X12mm Button Head Hex Screw
80400206

4

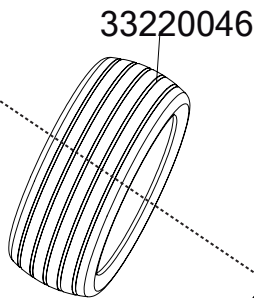


For sc201(Black)

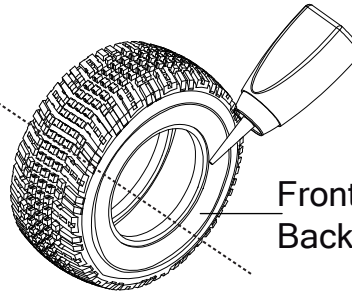
69400136

③

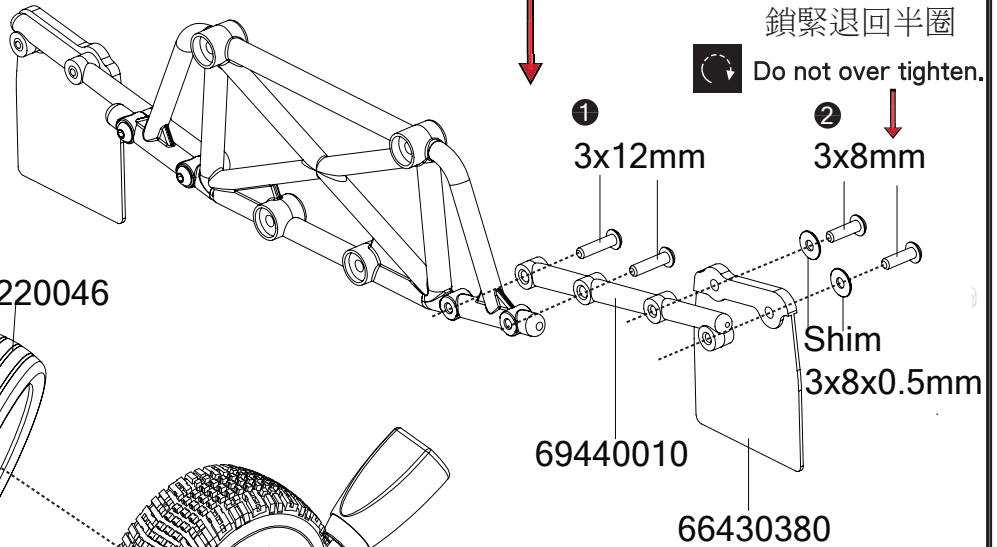
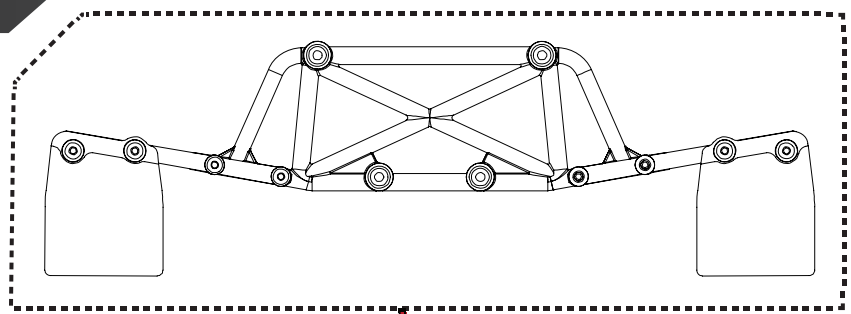
*Pull the sidewall of the tire slightly away from the rim and apply CA(Cyanoacrylate) glue in between the tire bead and rim



33220046



Front-69500016(Hard)
Back-69500036(Soft)



鎖緊退回半圈



Do not over tighten.

①

3x12mm

②

3x8mm

Shim

3x8x0.5mm

69440010

66430380

①

②

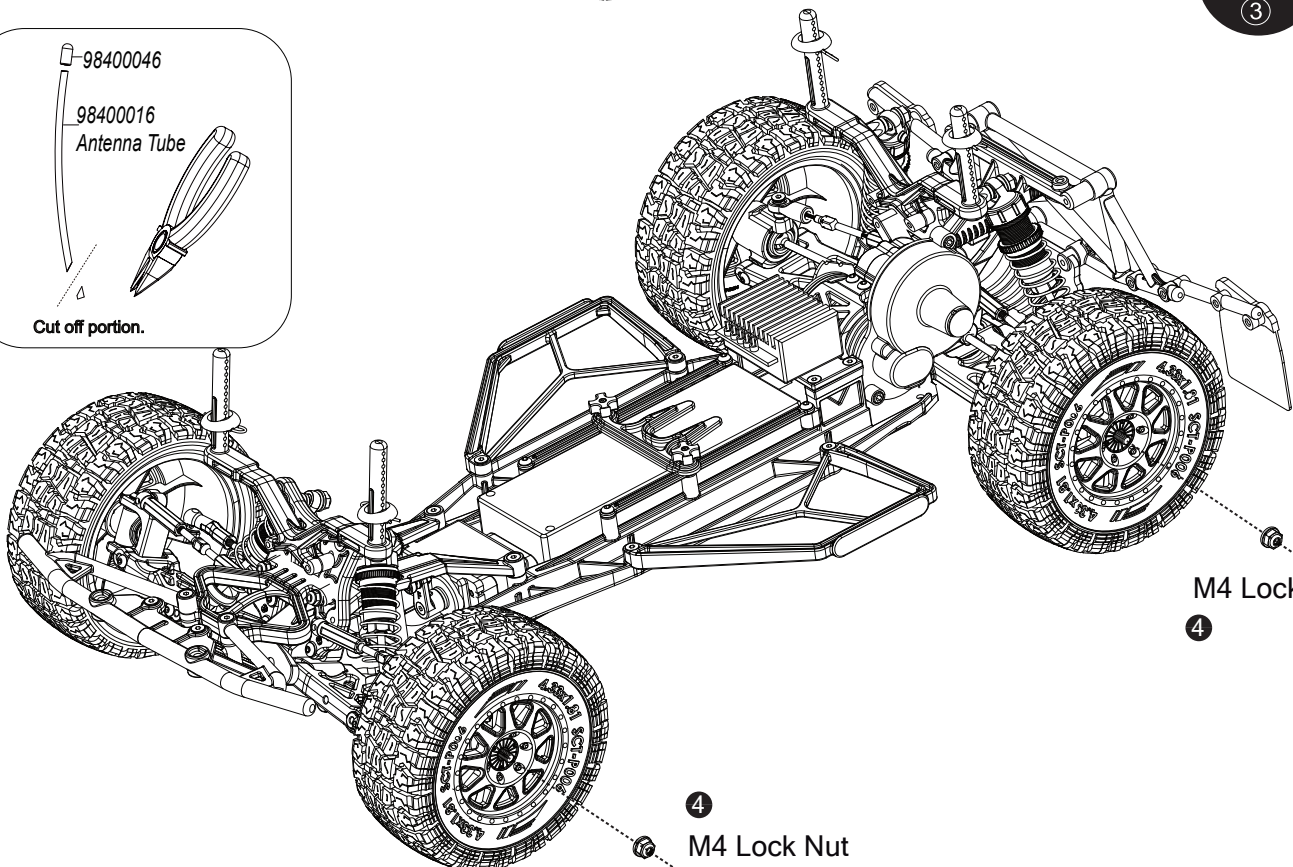
③

④

98400046

98400016
Antenna Tube

Cut off portion.



M4 Lock Nut

④

④

M4 Lock Nut



Option Parts: 67000021 — Transmission Assembly set [Rear Motor]

Option Rear Motor

5X10X4mm
Ball Bearing

66400086
Gear Case
(Rear Motor)

10X15X4mm
Ball Bearing

66402016
3 4 T

RM

Gear Case (Rear Motor)
66400086

Option Rear Motor

66400086
Gear Case
(Rear Motor)

66400116

M3
Lock Nut

3x14mm

3x8mm

3x25mm

4mm

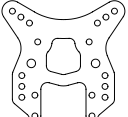
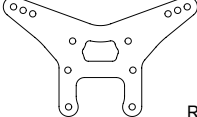
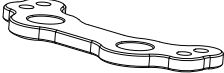
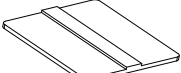
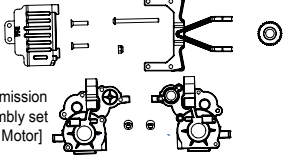
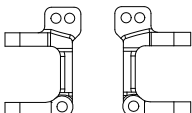
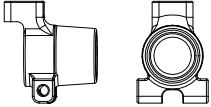
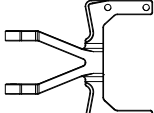
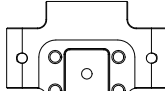
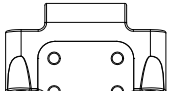
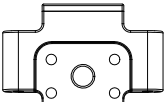
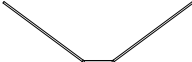
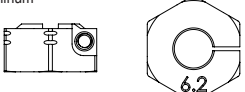
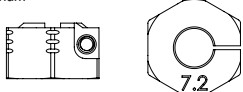
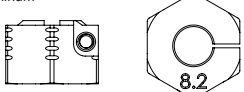
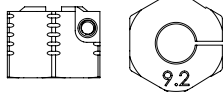
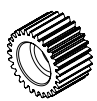
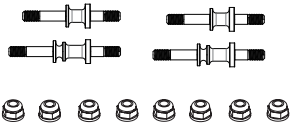
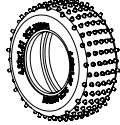
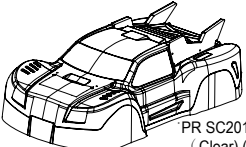
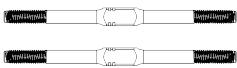
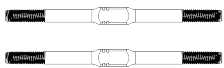
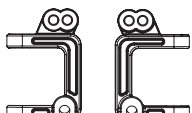
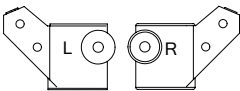
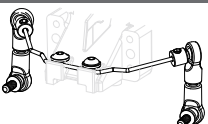
3x32mm

69400076
RM

3x10mm

3x22mm



67480017  Front (1) Carbon	66480256  Rear (1) Carbon	66480426  (1) Carbon	00430025 For: Type R Ackerman  Steering Knuckle Bushing 3x6mm (2)
66430366  (1) Type R Ackerman board CNC Aluminium-V3	66480756  Chassis Brass Weight(23g) (1)	67000021  Transmission Assembly set [Rear Motor]	66480326  S1 Aluminium Caster Block-4 Degree (Pair)
67400146  Aluminum Rear Hub +4mm FOR S1 (CNC)	66480526  S1 V2 Rear reinforcing plate aluminum cnc (1)	66480476  0 Degree Aluminum Lower Swing Arm Mount (+5mm) (1)	66480536  7 Degree Lower Swing Arm Mount (+5mm) 66g (Brass)
66480456  (+5mm 3) lower swing arm mounts 22g (aluminum)	66480736  PR S1 Rear balance beam 1.4mm	66400696  Aluminum Shock Stand off Set - Black - (4)	66480946  Camber Link Brace - Rear - (S1 V2 and V3FM) (1)
90440010 aluminum  Wheel Hex -12mm x 6.2mm (2)	90440020 aluminum  Wheel Hex -12mm x 7.2mm (2)	90440030 aluminum  Wheel Hex -12mm x 8.2mm (2)	90440040 aluminum  Wheel Hex -12mm x 9.2mm (2)
23440360  PR RACING Short Nut Driver (5.5mm) (1)	55430086  PR RACING 25T servo aluminum arm For 2wd S1/SC/ST (1)	66402086  For RM PR Racing 34T Aluminum Idler Gear (1)	66480010  28T Aluminum Idler Gear (28T) (1)
81430106  Front Rear Steel Shock Stand off Set	66480606  83T	69500026  Dirt Tires SCT-RX001 (2)	69440050  PR SC201 body+ Sticker (Clear) (1)
77470026  PR VB-10 body+ Sticker (Clear) (1)	77430066  PR SB401R-RT 55mm Turnbuckles steel (2)	77430056  PR SB401R-RT 50mm Turnbuckles steel (2)	66401876  (L/R 3°)
66480856  PR S1 V3PRO Steering Block (2)	66480846  2pcs 4pcs(2.5x8mm)	66481496  PR Racing SC201 VB-10 front sway bars 1.2mm/1.3mm/1.4mm (1Set) (1)	

Pinion

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

Spur

66480576	73T Spur Gear (For S1)*1pcs
66480586	75T Spur Gear (For S1)*1pcs
66480596	77T Spur Gear (For S1)*1pcs
71400116	81T Spur Gear (For S1)*1pcs
66480606	83T Spur Gear (For S1)*1pcs

Reference gear ratio

Motor	KV	Reference gear ratio	km/h
8.5T	4600	12.01	53.1
10.5T	3600	10.87	52.9
13.5T	2850	8.91	51
17.5T	2170	6.88	50

 PR S1(Gear Diff) Gear Ratio Chart-Internal Gear Ratio 2.75:1						
(Gear Diff) Final Drive Ratio		Spur 				
		73	75	77	81	83
Pinion 	18					
	19					
	20					11.41
	21					10.87
	22					10.38
	23				9.68	9.92
	24				9.28	9.51
	25				8.91	
	26			8.14	8.57	
	27			7.84	8.25	
	28		7.37	7.56		
	29		7.11	7.30		
	30	6.69	6.88	7.06		
	31	6.48	6.65			
	32	6.27	6.45			
	33	6.08	6.25			

VB-10

PR SC201 MM (VB-10) Off Road 1/10 2WD Short Course Truck Kit



EMAIL / info@prengine.com.tw