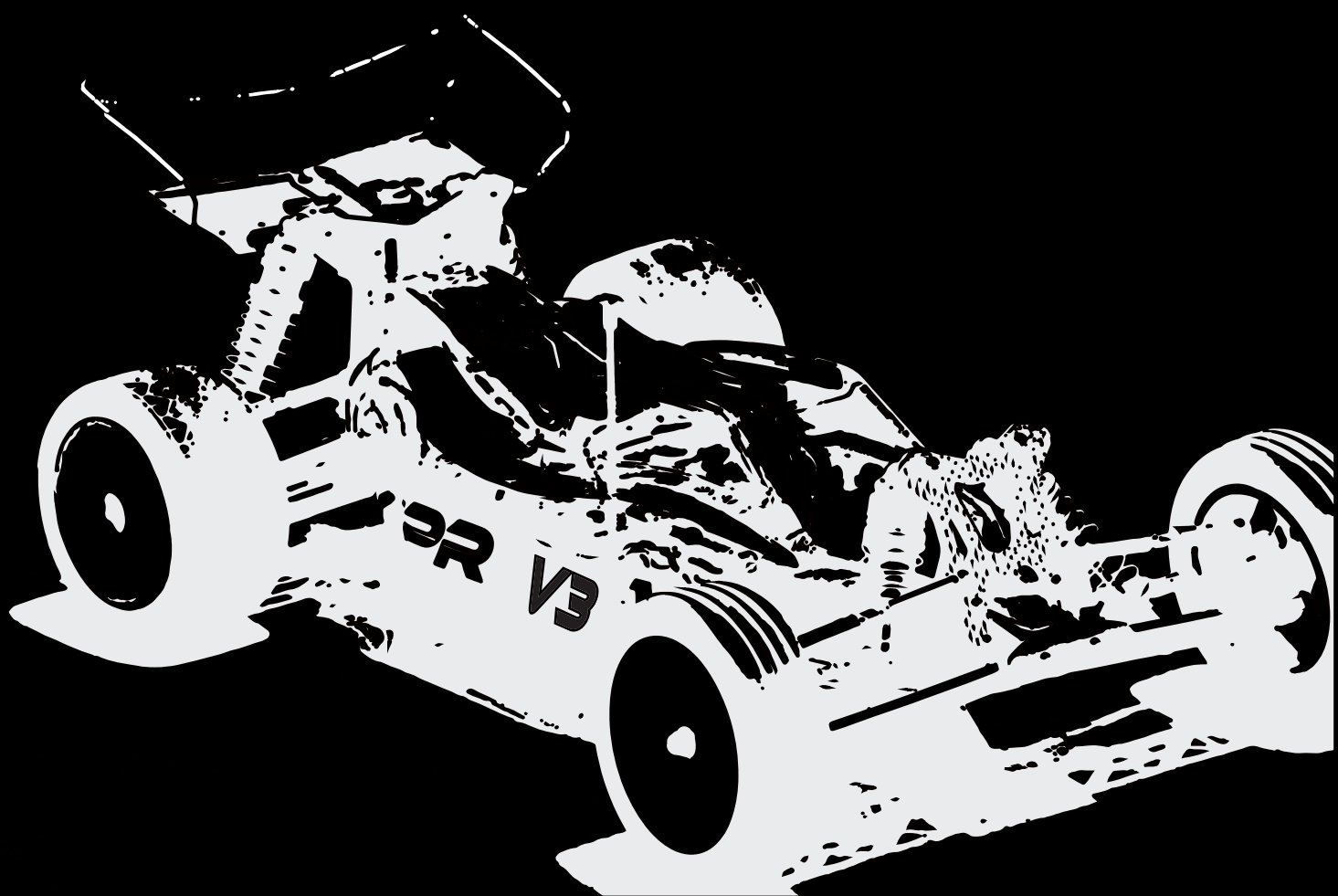


PR51V3(FM)

1/10 ELECTRIC 2WD RACING PRO KIT



WARNING!

Thank you for purchasing this PR product. This kit is not a toy! It will require periodic maintenance & effort to keep it in top running condition. There are many extremely dangerous moving parts, such as the metal gears, motors and etc. Coming in contact with these during operation of the car may cause serious injury! Always check your radio operation system before running the car. Always switch off the car first before turning off the radio to avoid losing control. Safe operation will ensure great fun and enjoyment.

PR S1 V3 (FM) 1/10 Electric 2WD Buggy PRO Kit

We've been hard at work here at PR Racing as we are always striving to improve on our already great products! We are happy to announce that we've been working on a new 2wd buggy platform based on our V2 design that will allow for more adaptability and tuning options for the racer. The new PRS1 V3 2wd buggy will be available this holiday season. We take pride in offering our leading edge quality and design.

We've been among the first manufacturers to offer some exciting and innovative products lately such as our recently released Mid-Motor Short-Course Racing Truck along with our extremely efficient 3 bearing top shaft design in our transmission's. Our new V3 Buggy will be among the first competition vehicles that will showcase a 3 Gear Mid Motor Transmission with a lay-down transmission case that provides a very low center of gravity. We've also made the motor placement much more adjustable for both the consumer and for placement consideration. The battery placement on our new V3 Chassis design will offer both vertical and horizontal placement which helps when racing at various track styles and surfaces.

Our team of distributors and racers world wide have been showing the quality of our products at tracks with exceptional race results for some time now and we're excited to release the next generation of competition off road model car for today's true racing hobbyist!

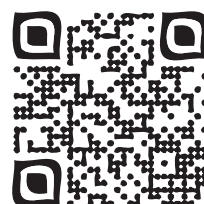
PR S1 V3 (FM) 1/10 Electric 2WD Buggy PRO Kit

Specifications

- Length: 411mm
- Width: 250mm
- Height: 145mm
- Wheelbase: 285mm
- Front track: 248mm
- Rear track: 248mm
- Weight: 1575-1595 g
- CNC 3mm machined harden chassis
- 13mm big bore oil fill in shock
- 3 gears deploy in gear case
- Metal gear differential
- Dual pad slipper mounting
- Complete sealed gear bearing
- 12mm Hex fit wheels
- Metric socket screw (Hex Screws)

Items required to complete

- Metric 1.5mm, 2.0mm hex tools
- Metric 5.5mm, 7.0mm 8.0mm Nut Driver
- 2 Channel Surface Radio System (Minimum)
- 1/10 ESC, Motor & Pinion Gear
- High Speed Servo
- 2S LiPo Shorty Battery & Compatible Lipo Charger
- Polycarbonate Paint for Bodies
- 1/10 Buggy Tires, inserts and CA Glue
- Silicon diff oil (For Gear Diff Version)



● BEFORE INSTALLATION	01
● BAG A	03-06
Chassis Guard Installation	
Servo Saver	
Steering Servo	
● BAG B	06-11
Front Suspension	
Front Spindle (Left Side)	
Front Spindle (Right Side)	
Front Suspension (L/R)	
Front Shock Stay	
Front Suspension	
● BAG C	11-16
Transmission Assembly	
Gear Differential	
Rear Shock Stay	
Rear Gear Box	
● BAG D	17-21
Shock Assembly	
Shock Spring	
Front Suspension	
Rear Suspension	
Motor	
Battery Plate	
Tires	
Body&Wheels	
● SETUP SHEET	22-23
● SPARE PARTS & OPTIONAL PARTS	24-28

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.



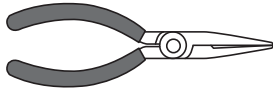
Apply oil.

- 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 screws are extras.

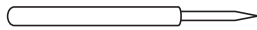
TOOLS REQUIRED

CAUTION: Handle tools carefully!

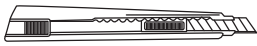
- Needle Nose Pliers



- Awl



- Sharp Hobby Knife



- Grease



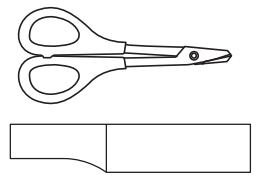
- Wire Cutters



- Screw Cement

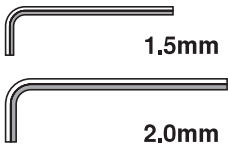


- Round Cutter & Sander



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

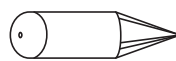
- Hex Wrench



- Ball Differential Grease

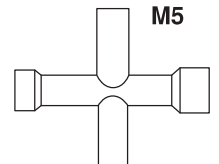


- SP Knife Edge Reamer



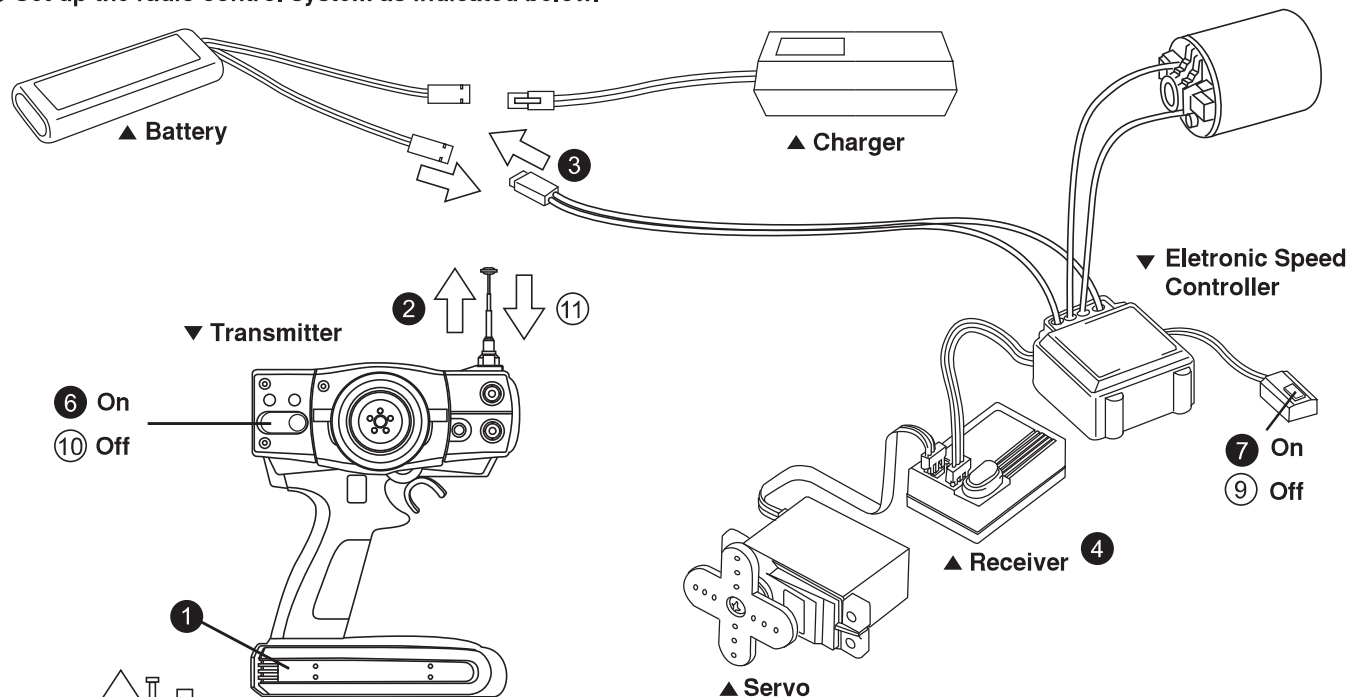
Do not pre-drill as precise drilling of 1mm to 15mm holes can be performed after body shell painted.

- 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.



START

- 1 Install batteries.(Transmitter)
- 2 Extend the antenna.(Transmitter)
- 3 Connect the battery to the ESC.
- 4 Extend the antenna.(Receiver)
- 5 Center the trims.
- 6 Switch on both the transmitter and receiver.
- 7 Make sure the servos are in command.

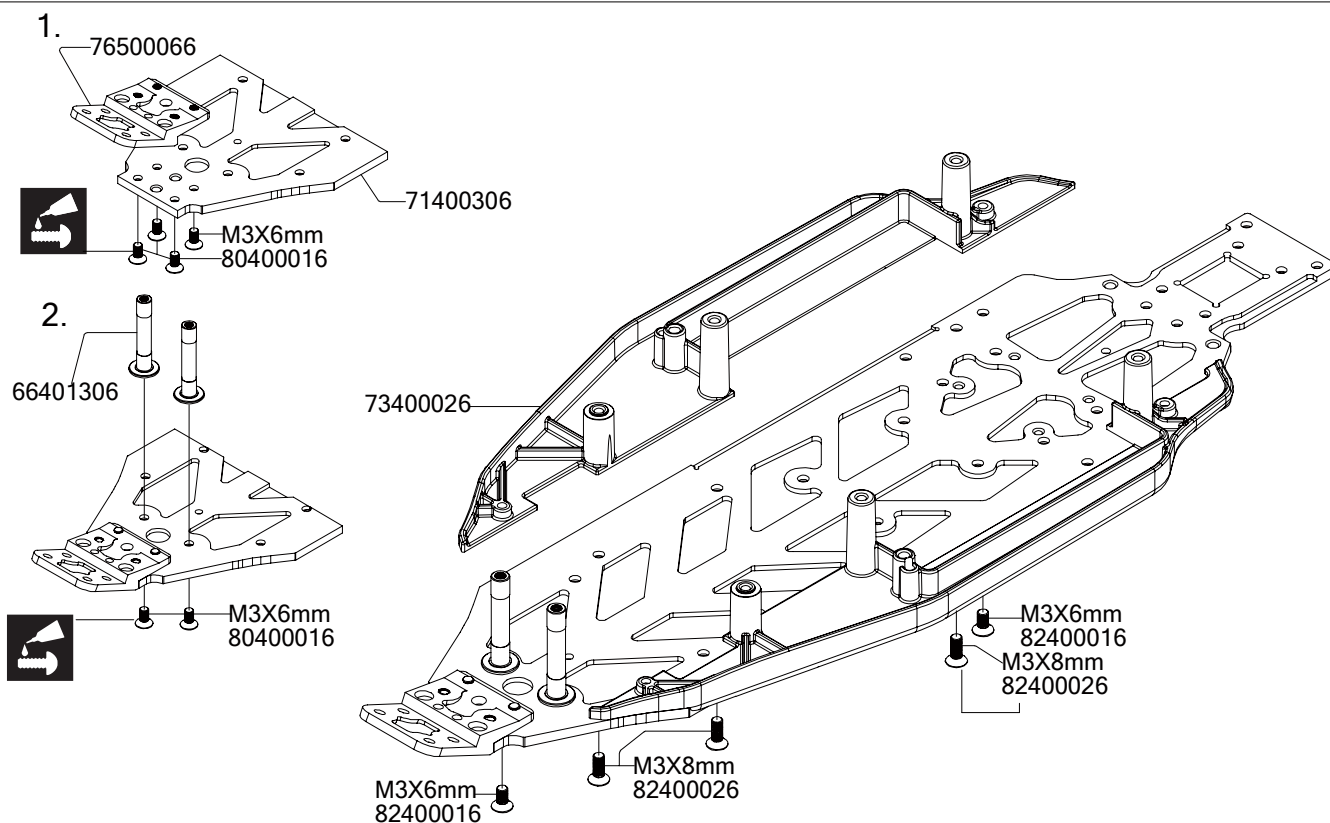
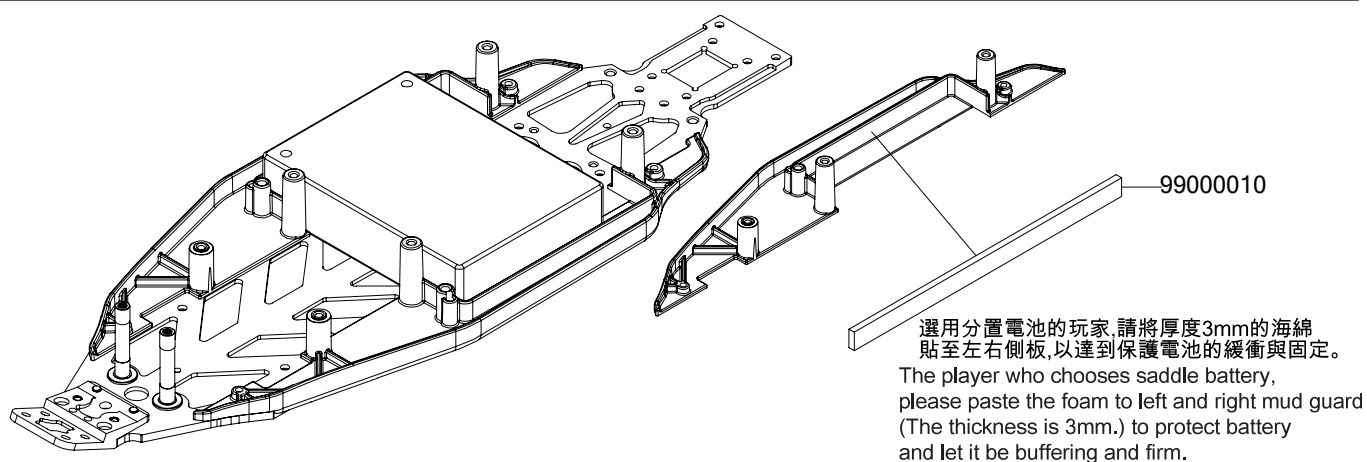
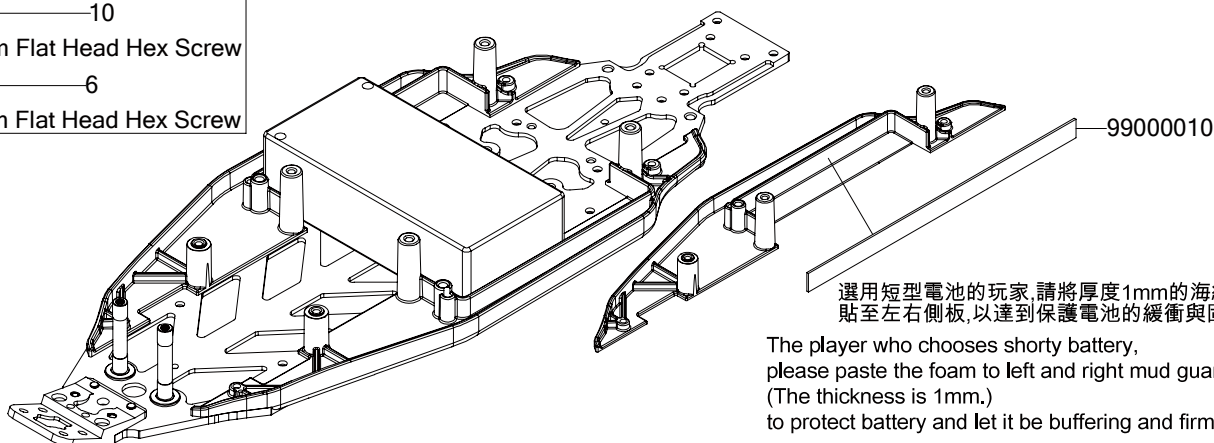
FINISH

- 8 Switch off both the transmitter and receiver.
- 9 Retract the antenna.(Transmitter)



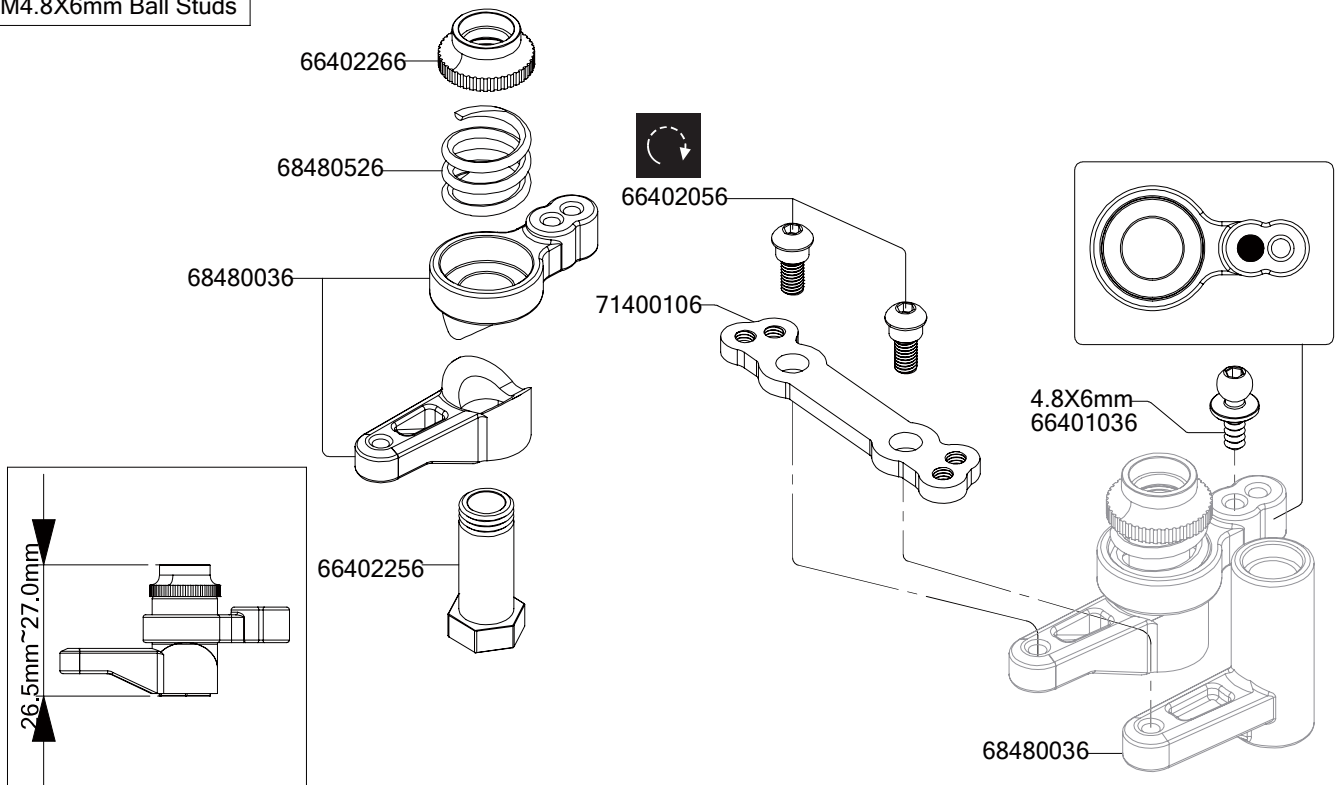
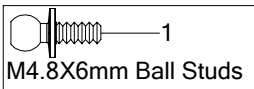
A1 Chassis Guard Installation

- 10
M3X6mm Flat Head Hex Screw
- 6
M3X8mm Flat Head Hex Screw

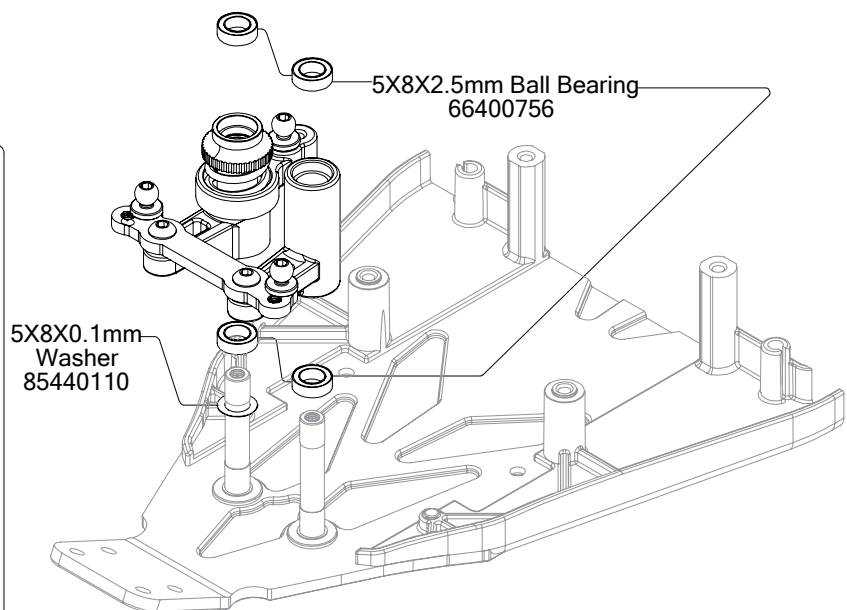
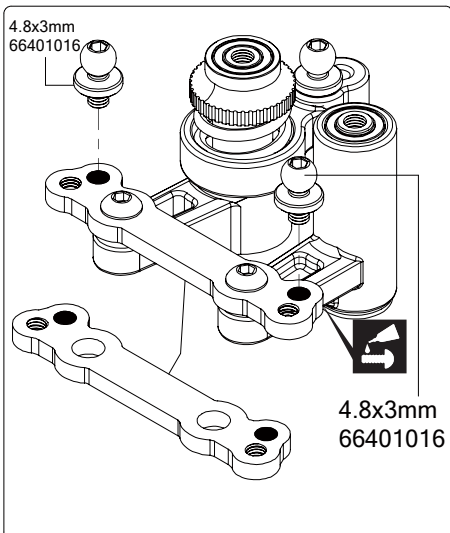
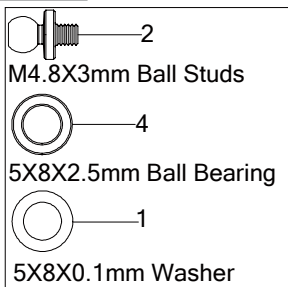




A2 Sewvo Saver



A3 Servo saver



Part Bags used.



Do not over tighten.

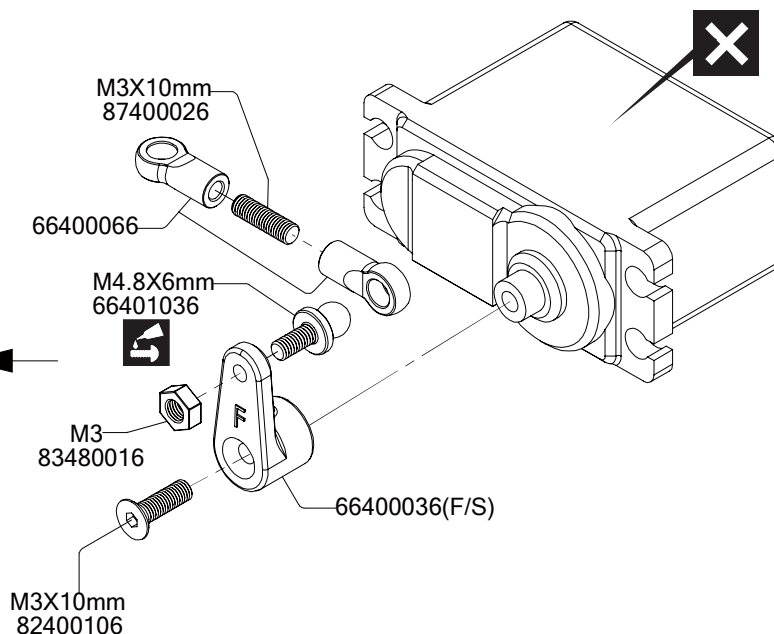
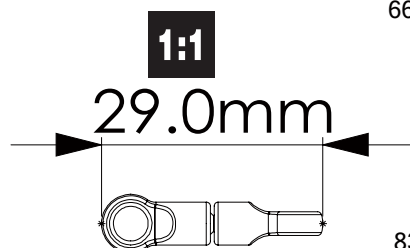


Apply threadlocker (screw cement)



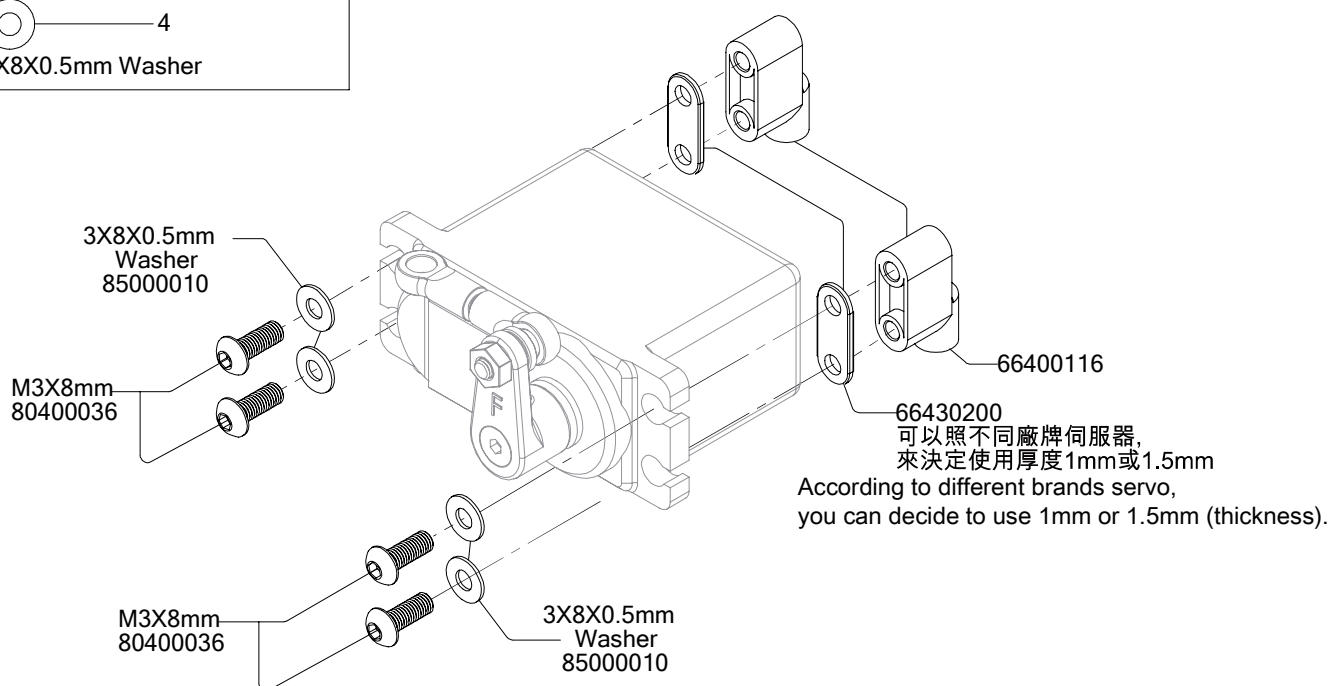
A4 Steering Servo

-  1
M3x10mm Set Screw
-  1
M4.8mmx6mm Ball Studs
-  1
M3x10mm Flat Head Hex Screw
-  1
M3 Lock Nut



A5 Steering Servo

-  4
M3X8mm Button Head Hex Screw
-  4
3X8X0.5mm Washer



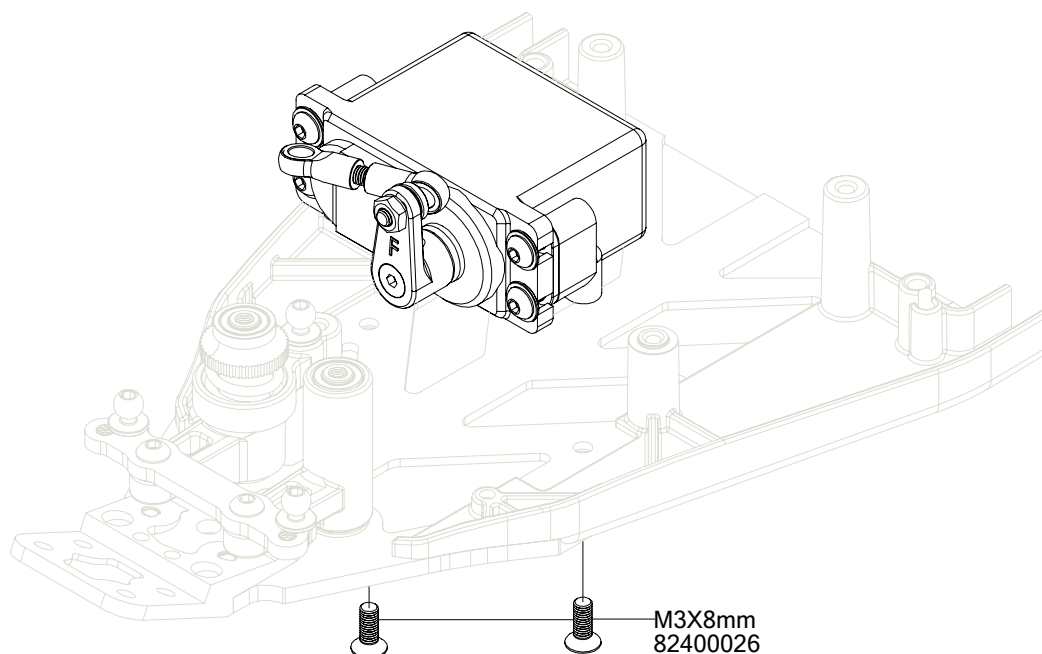


A6 Steering Servo



2

M3X8mm Flat Head Hex Screw



B1 Front Suspension



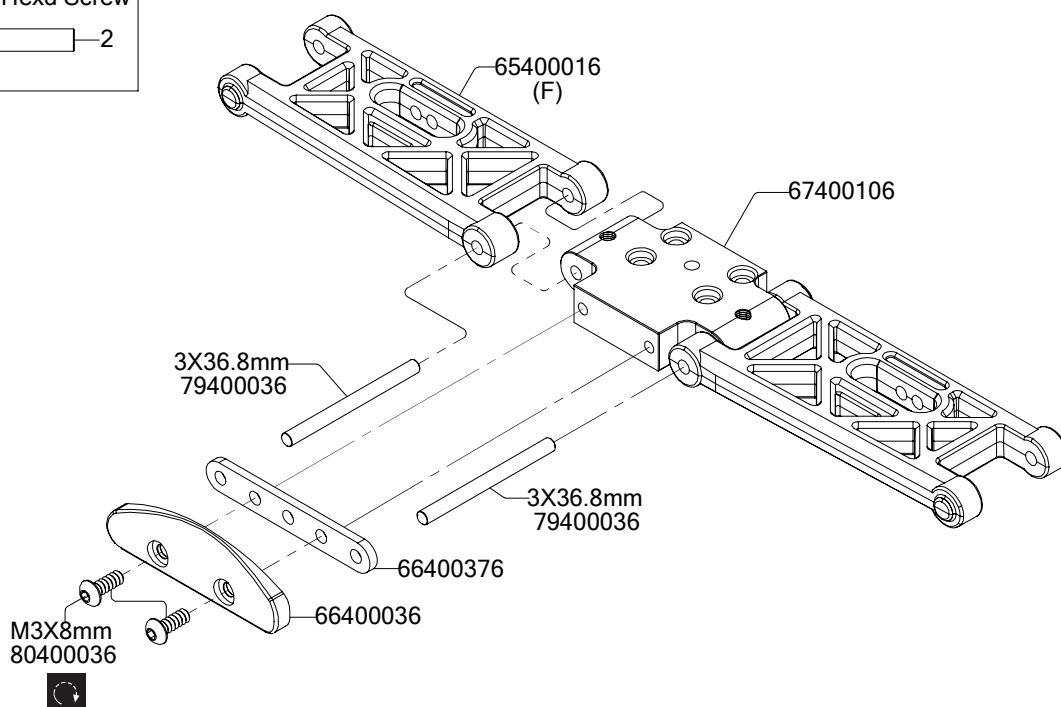
2

M3X8 Button Head Hexd Screw



2

3x36.8mm Pin



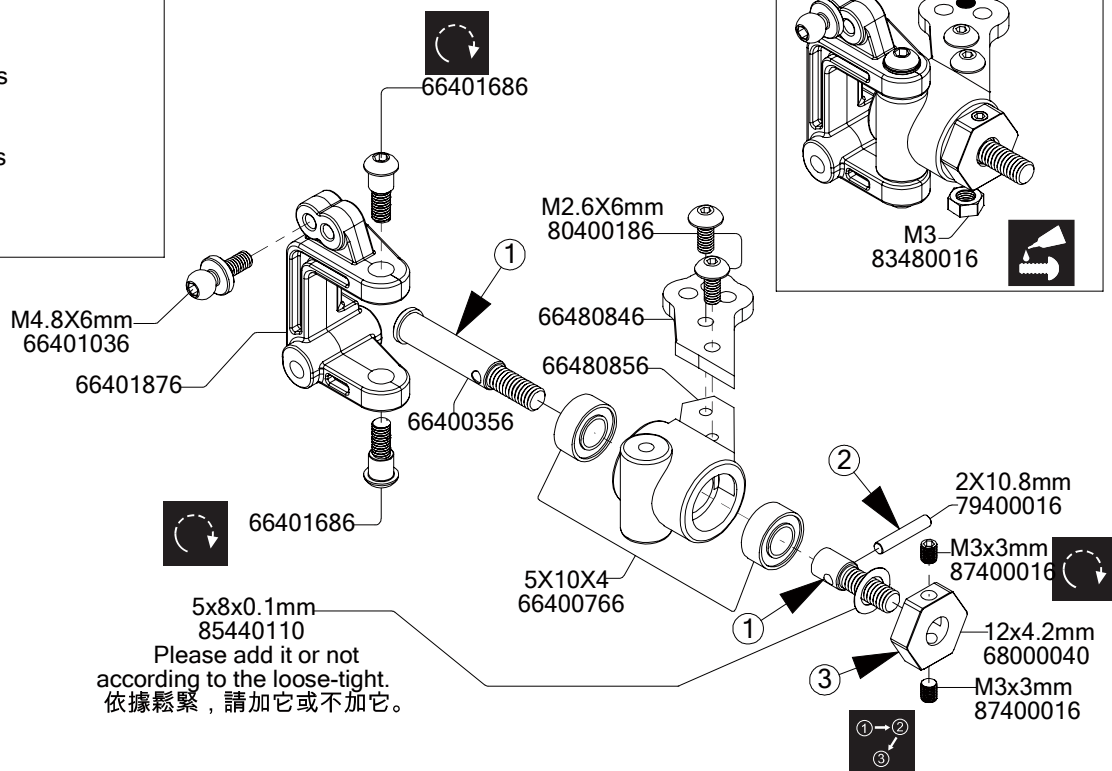
Part Bags used.



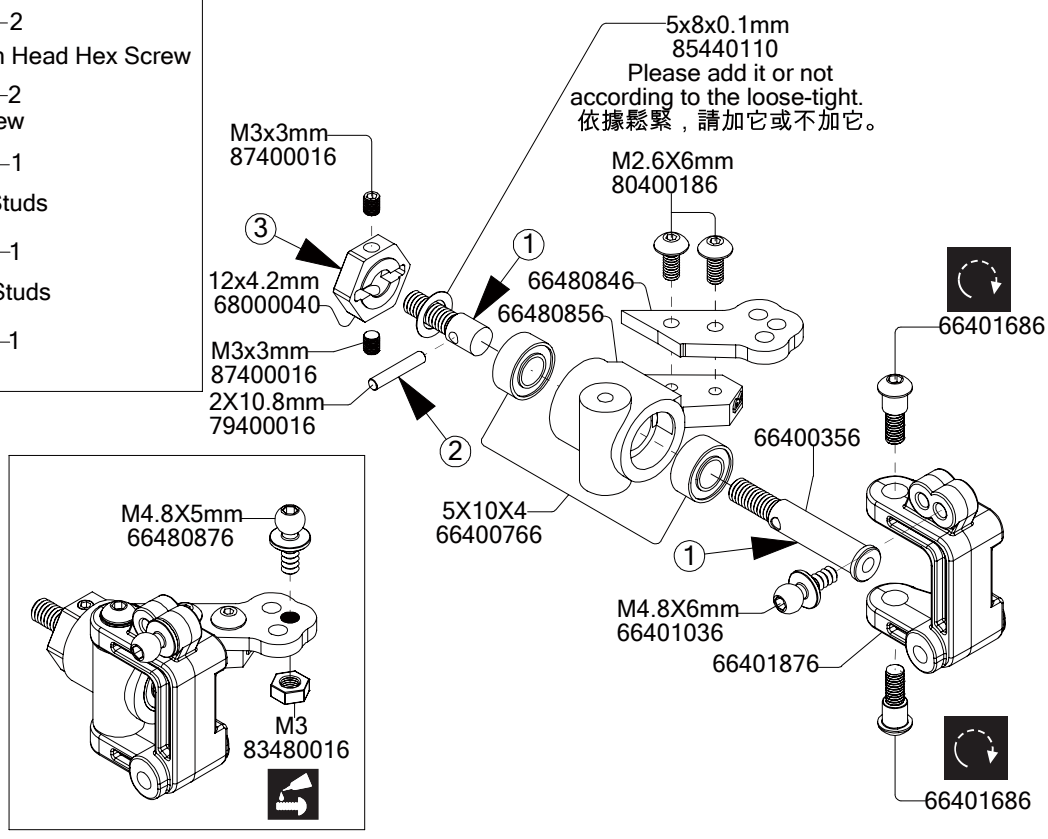
Do not over tighten.

**B2 Front Spindle(Left Side)**

-  2
 M2.6x6mm Button Head Hex Screw
 2
 M3X3mm Set Screw
 1
 M4.8X5mm Ball Studs
 1
 M4.8X6mm Ball Studs
 1
 M3 Lock Nut

**B3 Front Spindle(Right Side)**

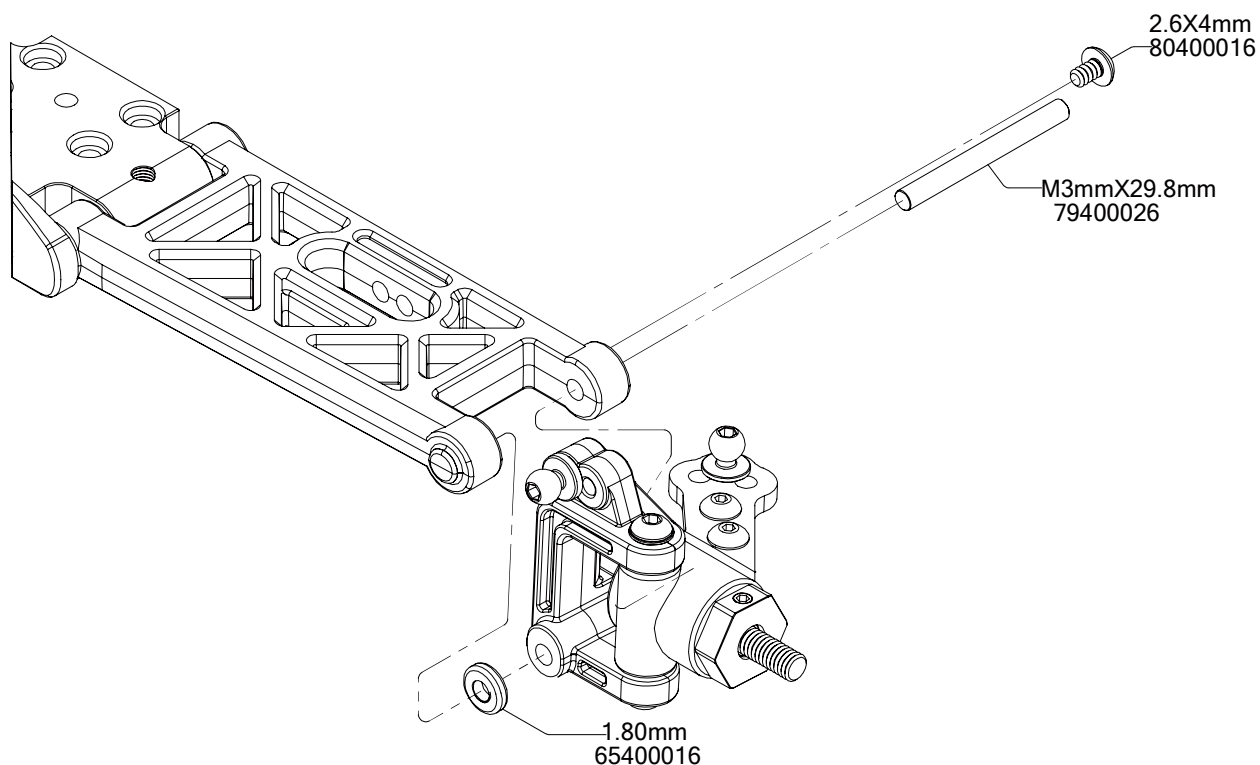
-  2
 M2.6x6mm Button Head Hex Screw
 2
 M3X3mm Set Screw
 1
 M4.8X5mm Ball Studs
 1
 M4.8X6mm Ball Studs
 1
 M3 Lock Nut





B4 Front Suspension(L&R)

2
M2.6X4mm Button Head Hex Screw



B5 Front Shock Stay

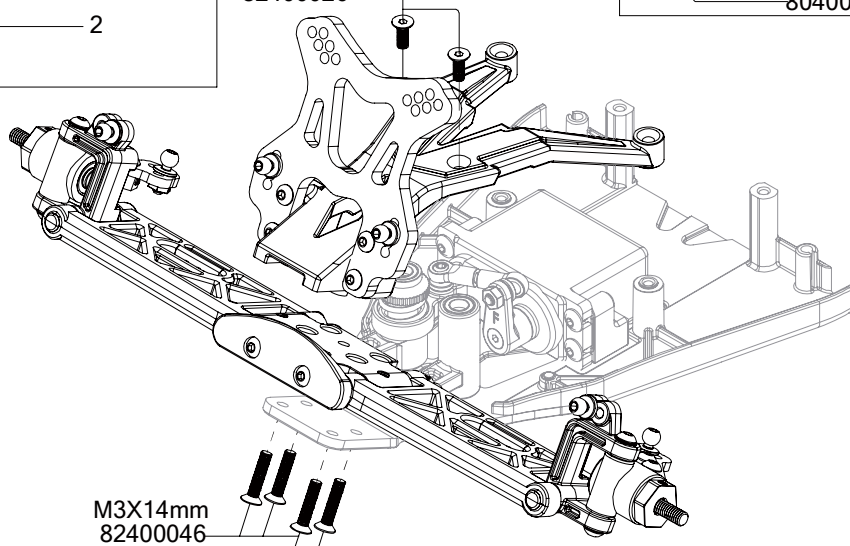
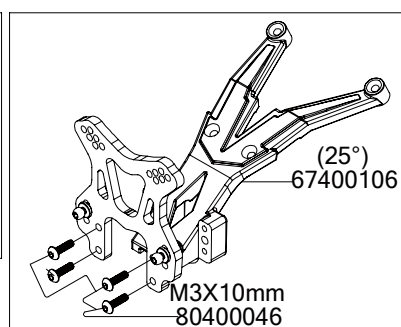
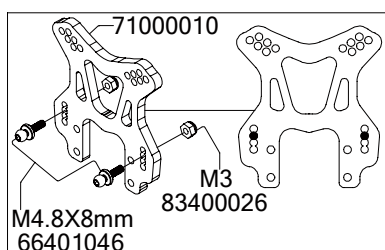
4
M3X10mm Button Head Hex Screw

2
M3X8mm Flat Head Hex Screw

4
M3X14mm Flat Head Hex Screw

2
M4.8X8mm Ball Studs

2
M3 Lock Nut

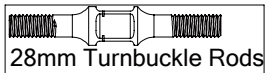


Part Bags used.

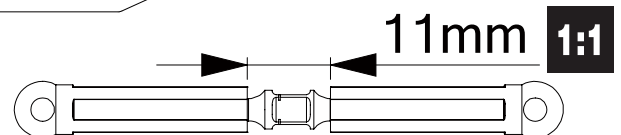
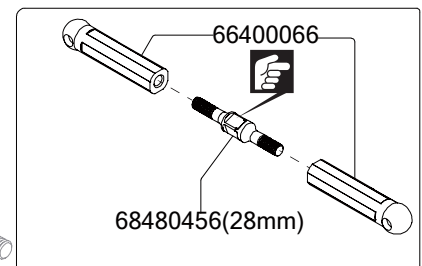
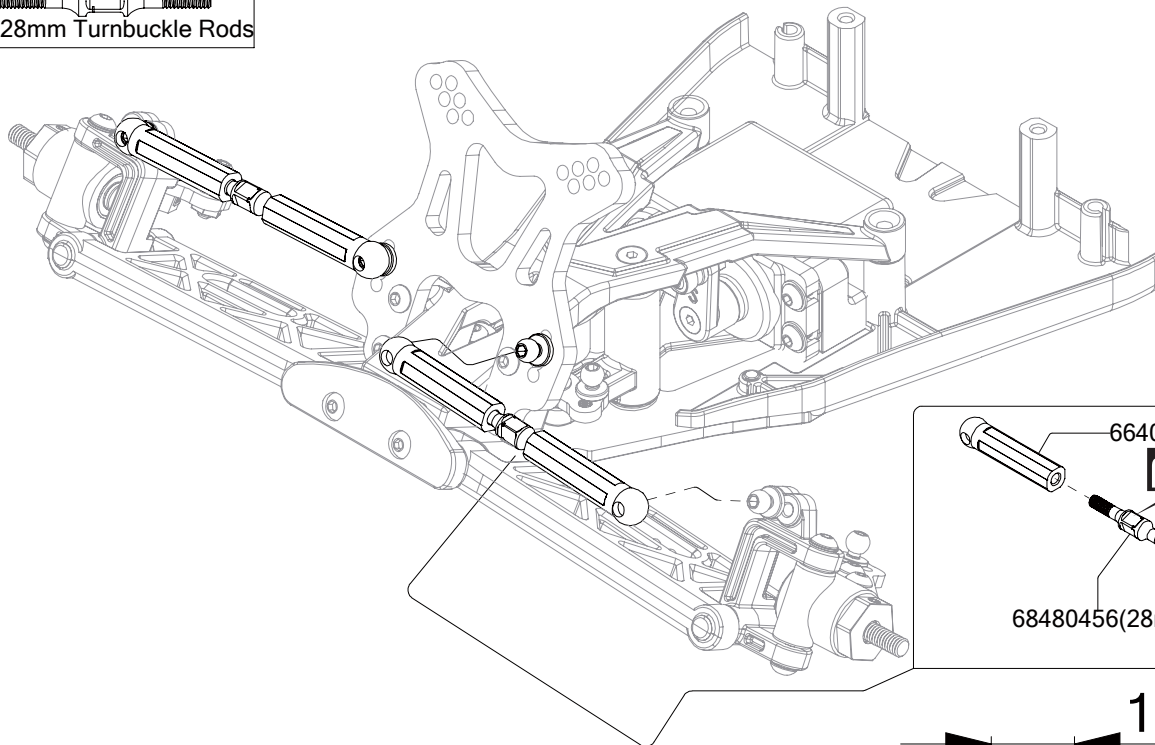


BAG
B

B6 Front Suspension

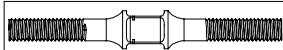


28mm Turnbuckle Rods

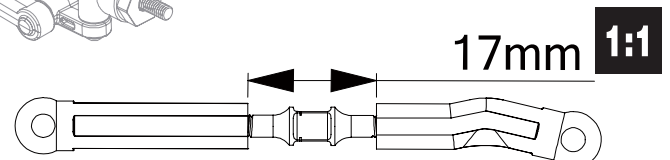
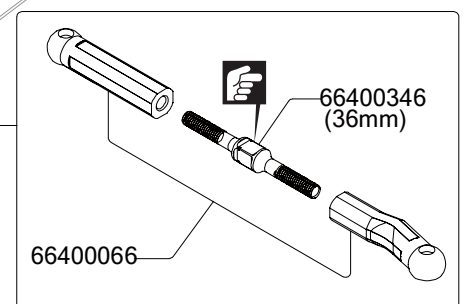
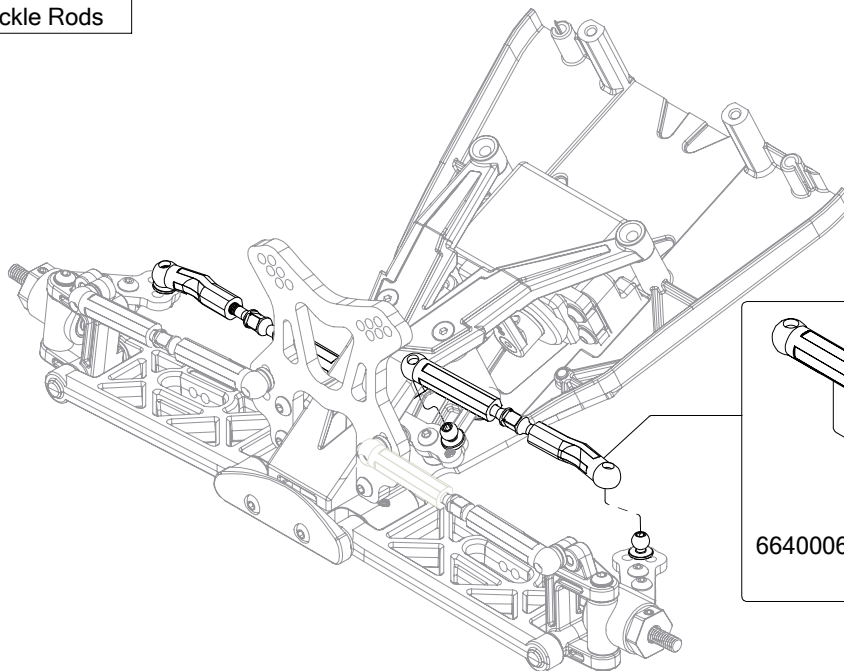


BAG
B

B7 Front Suspension

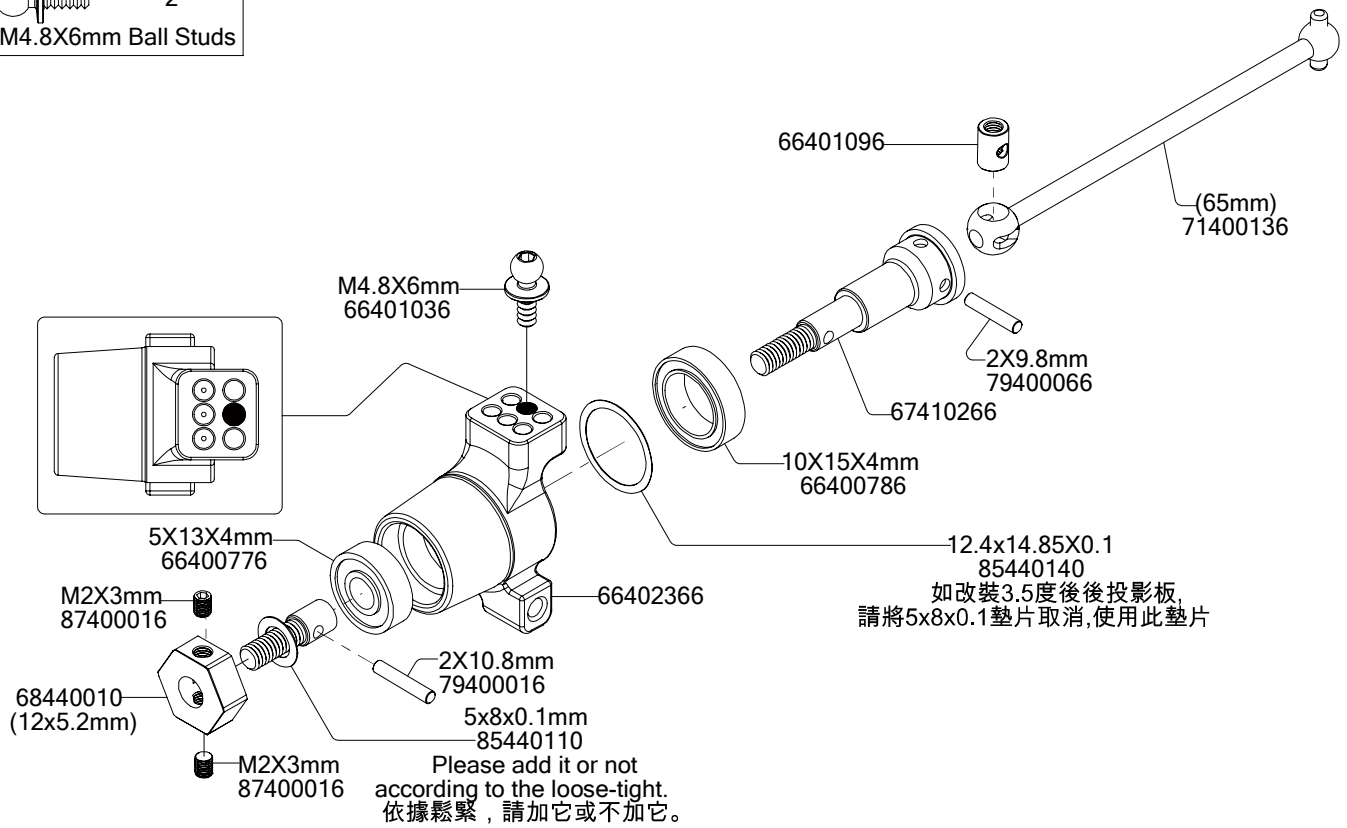


36mm Turnbuckle Rods

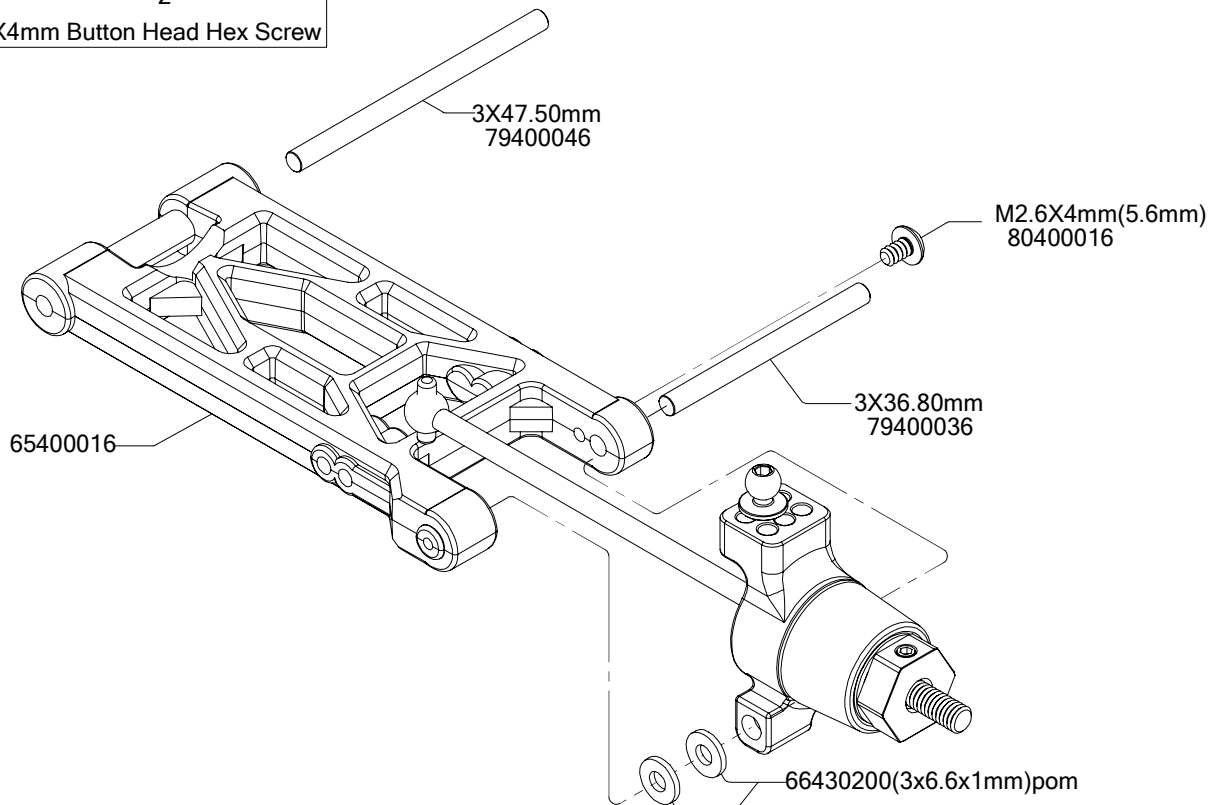
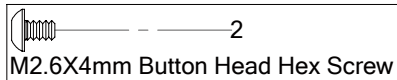




B8 Rear Hud&Cv.



B9 Rear Hud (L&R)



Part Bags used.

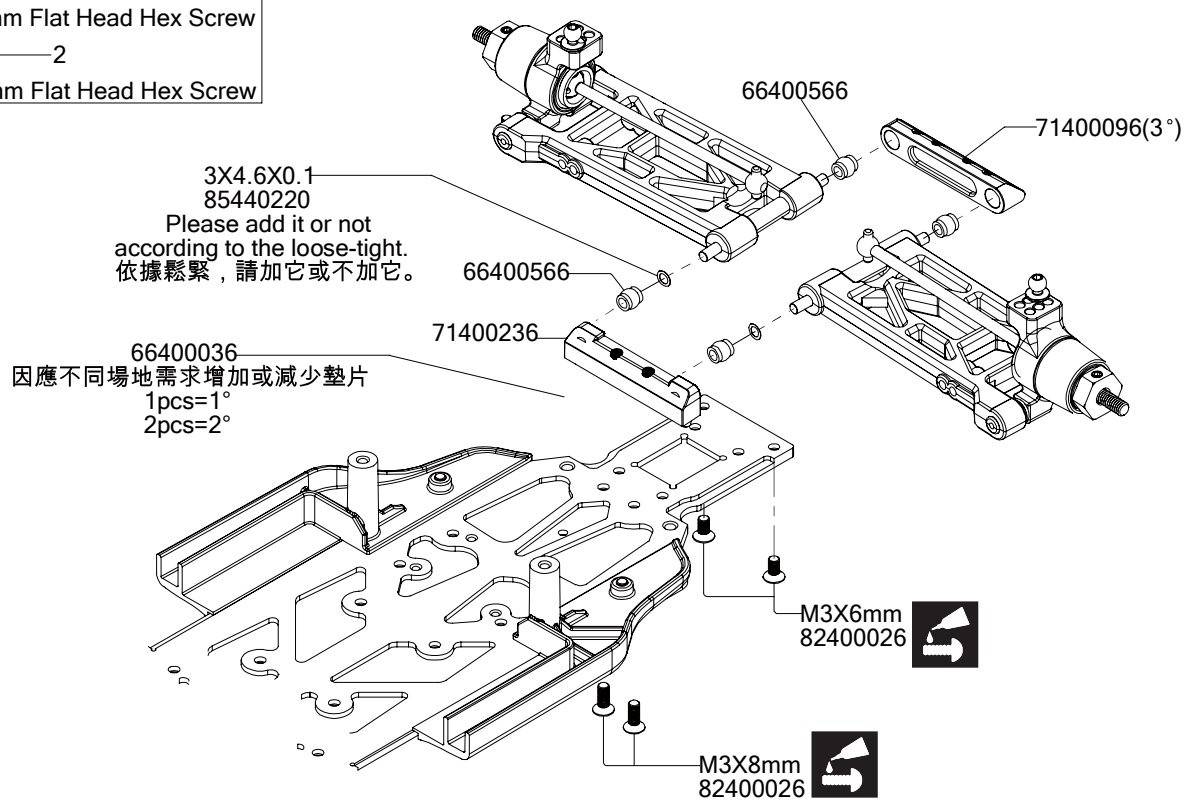
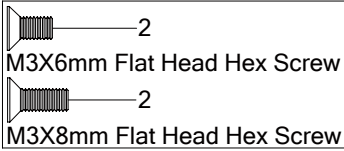


Assemble left and right sides the same way.

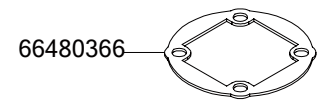
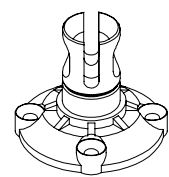
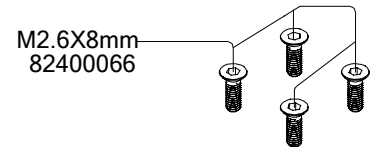
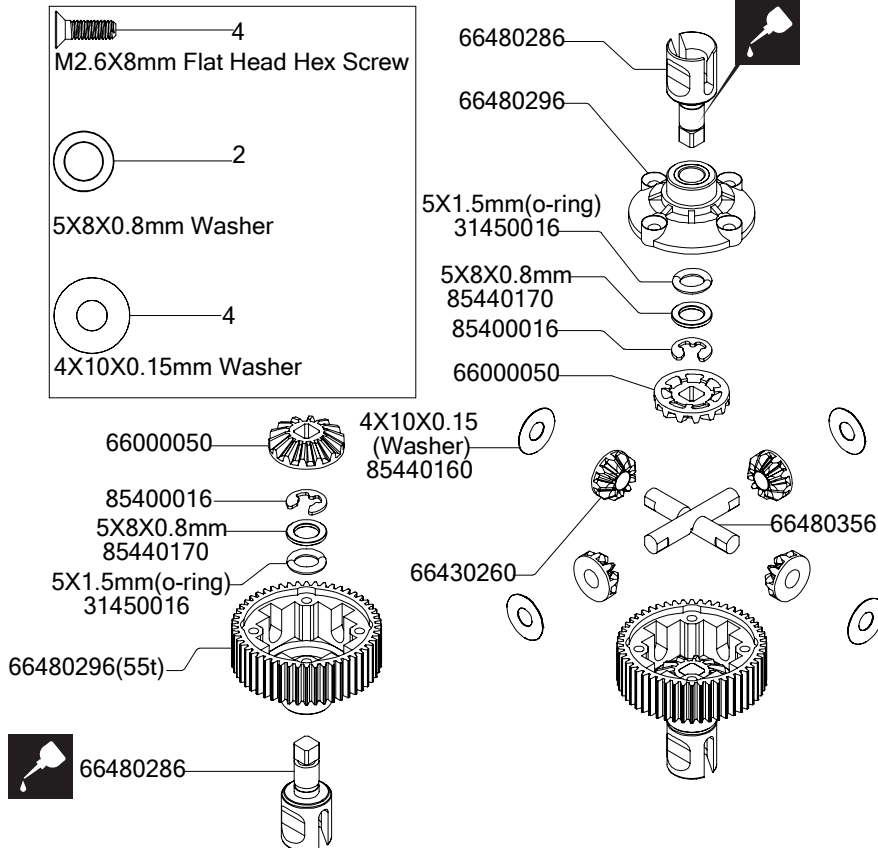
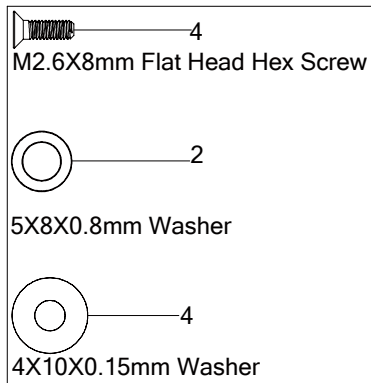


Do not over tighten.

B10 Rear Suspension

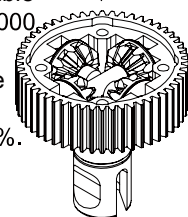
BAG
B

C1 Gear Differential

BAG
C

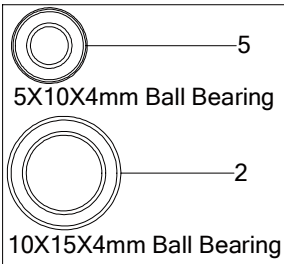
建議濃度為3000至5000差速油
灌至八分滿

The recommendable density is 3000-5000 differential oil, please pour in the differential oil reached up to 80%.

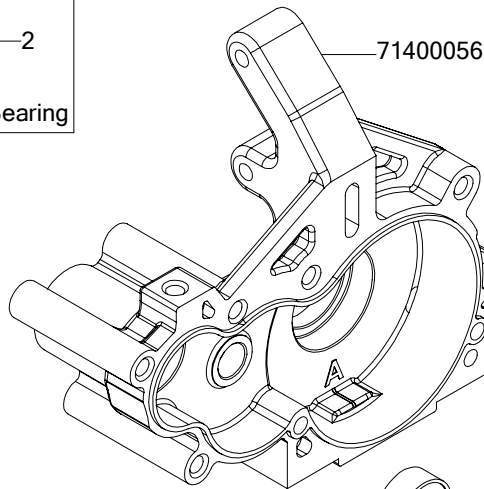




C2 Transmission Assembly



5X10X4mm
66400766

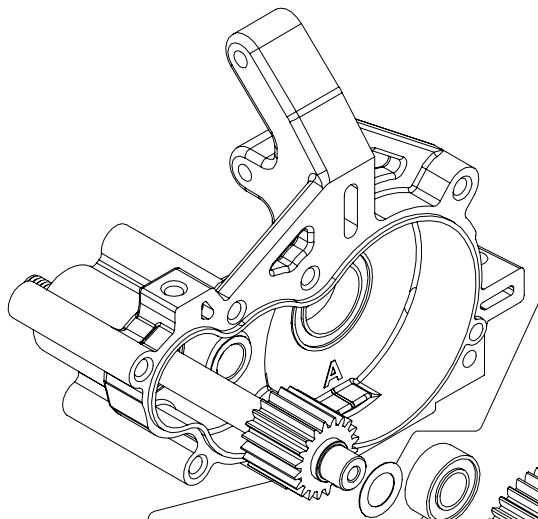


5X10X4mm
66400766

10X15X4mm
66400786

12.4x14.8x0.1
85440140
Please add it or not
according to the loose-tight.
依據鬆緊，請加它或不加它。

5x8x0.1mm
85440110
Please add it or not
according to the loose-tight.
依據鬆緊，請加它或不加它。



Top Shaft(20t)Light Whight
66480646

5X10X4mm
66400766

34t
66402016

5X10X4mm
66400766

5X18mm Shaft Set Pin
66480226

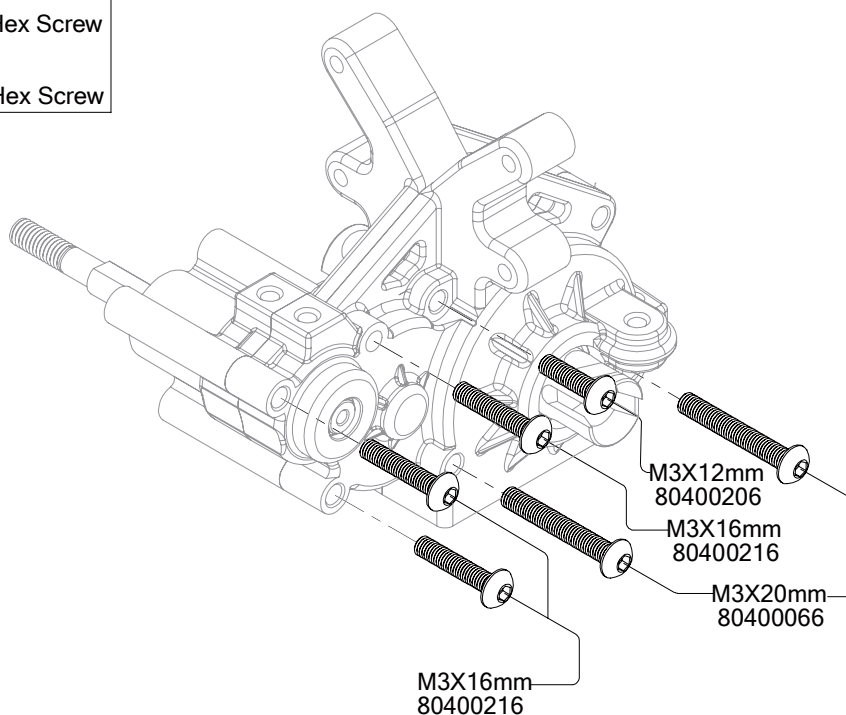
請在齒輪上塗上少許的潤滑油，以達到更順暢的運轉
(建議使用所附的高級潤滑白色油脂-19460026)
Please apply some lubricant oil on gear, it can
work more smoothly.
(Suggest: Using the attached Premium ball differential
oil -19460026.)





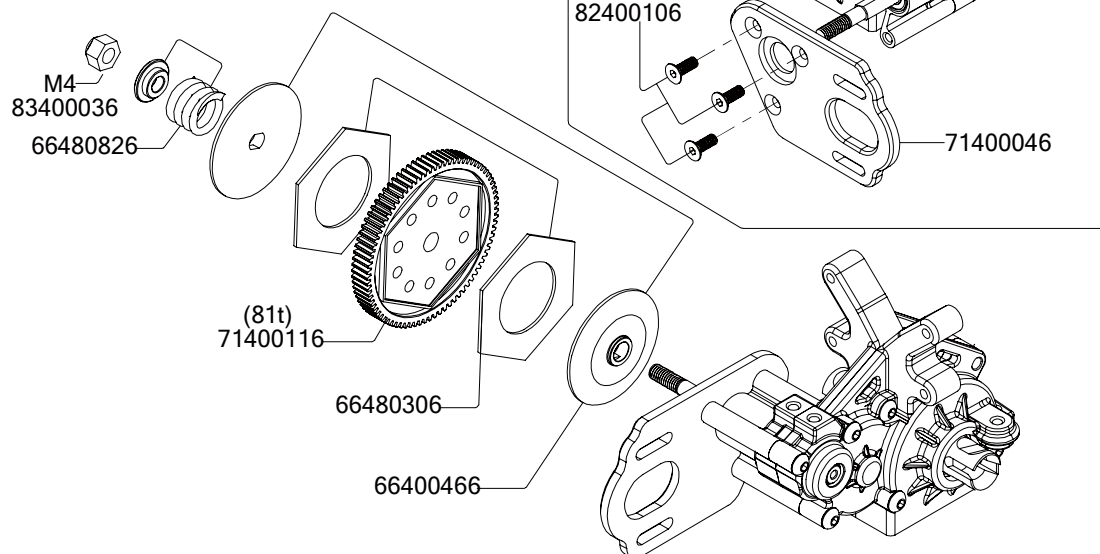
C3 Transmission Assembly

- 1
M3X12mm Button Head Hex Screw
- 3
M3X16mm Button Head Hex Screw
- 2
M3X20mm Button Head Hex Screw



C4 Transmission Assembly

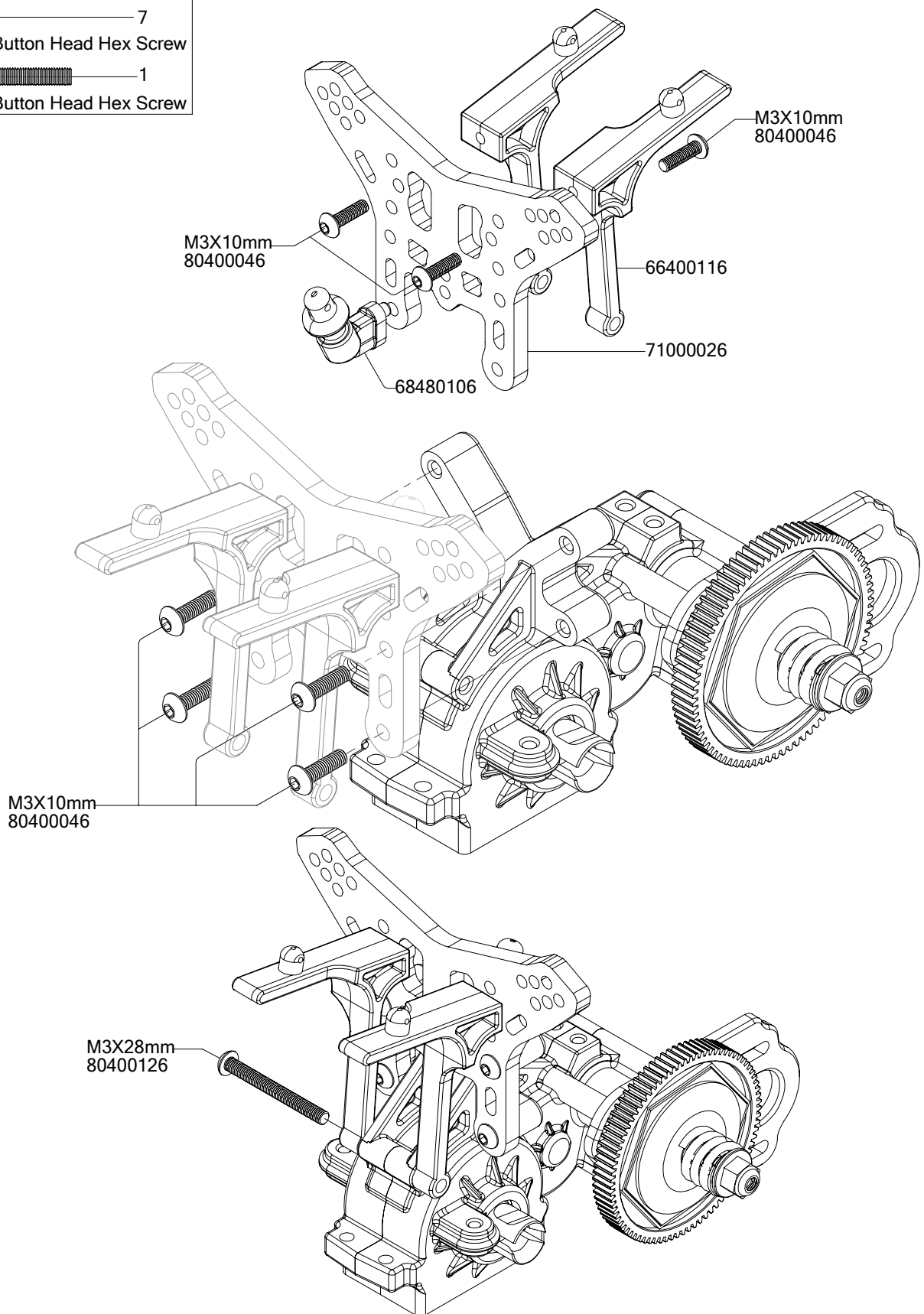
- 3
M3X10mm Flat Head Hex Screw
- 1
M4 Lock Nut





C5 Rear Shock Stay

- 7
M3X10mm Button Head Hex Screw
- 1
M3X28mm Button Head Hex Screw





C6 Rear Gear Box

- 2
M3X8mm Flat Head Hex Screw
- 2
M3X8mm Button Head Hex Screw

M3X8mm
80400036

M3X8mm
82400026



C7 Rear Suspension

- 2
M4.8X8mm Ball Studs

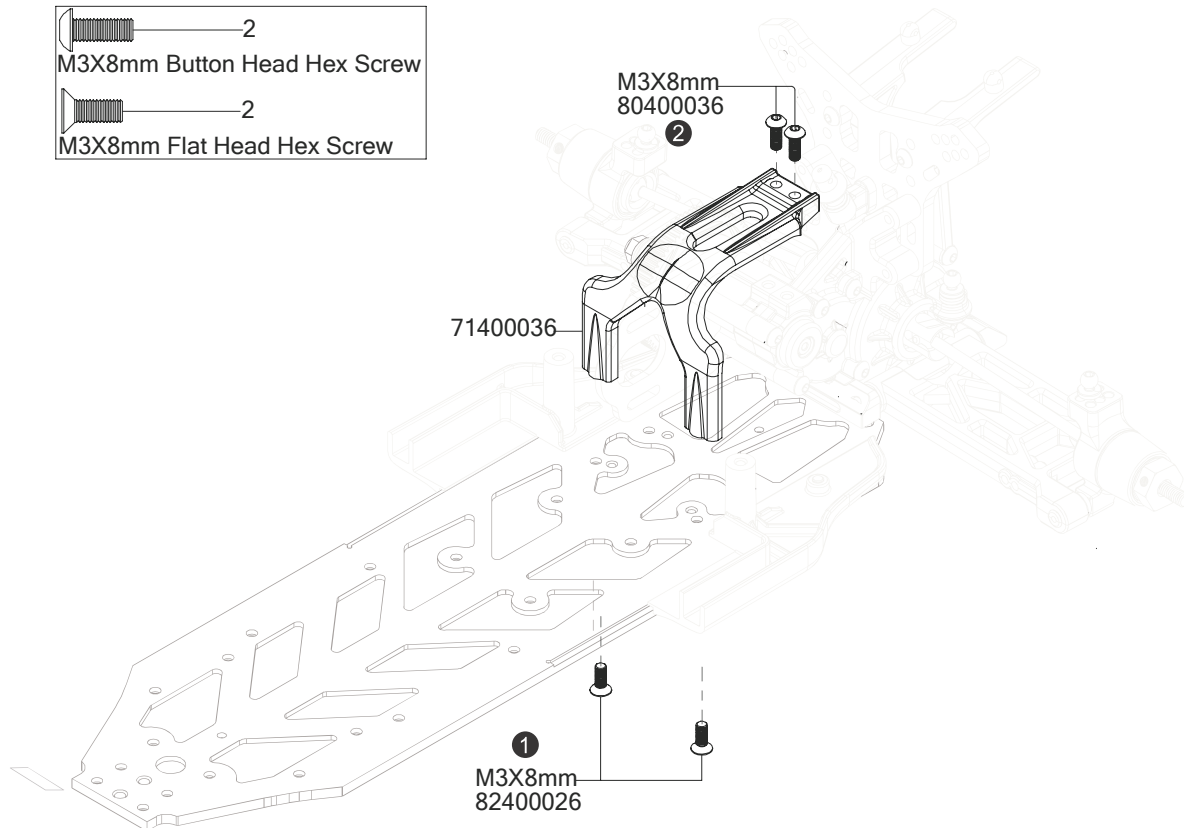
M4.8X8mm
66401046
66430200
3X6.6X1mm

M4.8X8mm
66401046
66430200
3X6.6X1mm

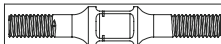


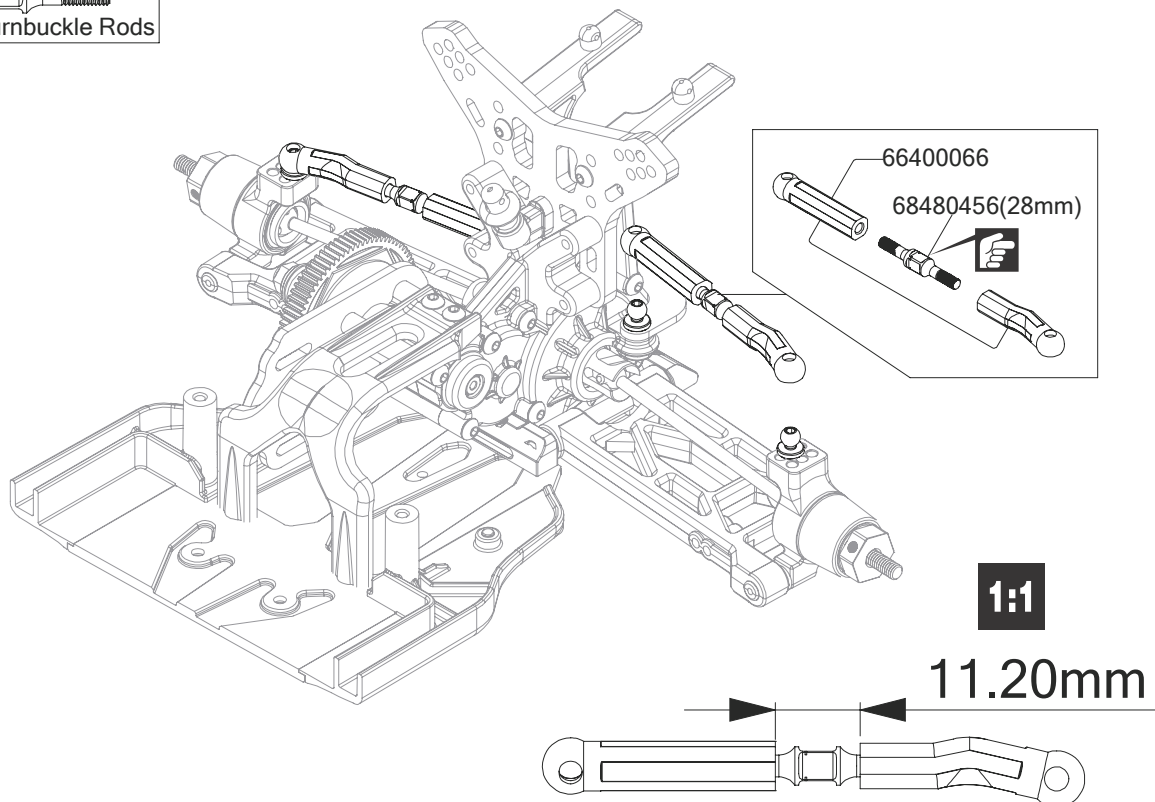
C8 Rear Gear Box

-  2
 M3X8mm Button Head Hex Screw
-  2
 M3X8mm Flat Head Hex Screw



C9 Rear Suspension.

-  2
 28mm Turnbuckle Rods



Part Bags used.



Note the direction.



True-to-scale diagram.



Assemble in the specified order.



D1 Shock Assembly



Front Shock Shaft 66401666 ----- 2

Rear Shock Shaft 66401656 ----- 2

Threaded Shock Coller ----- 8

Threaded Shock Coller O-Rings (Need to soak silicone oil before) ----- 8

M2.6 Nut ----- 4

2.6x6x0.5mm Washer ----- 4

Shock Cartridge ----- 4

Shock Ball---4pcs

Shock Piston 1.6 1.6 ----- 2

Shock Piston 1.8 ----- 2

83400016
1.8X1
68410066
85440070

66401666
(1mm)
66430200
以照場地調整來決定
是否安裝此墊片
66430090

66400626

68410066

66400676

66402246

Front Buildx2

66401826

66400066

18.50mm

83400016
1.6X2
68410066
85440070

66401656
(1mm)
66430200
以照場地調整來決定
是否安裝此墊片
66430090

66400636

68410066

66400676

66402246

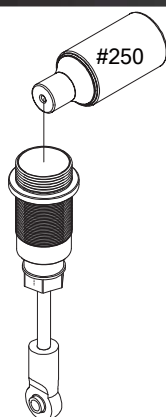
Rear Buildx2

66401826

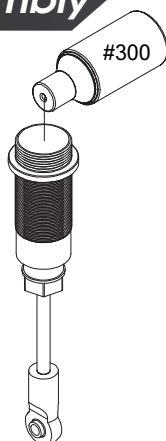
66400066

21.80mm

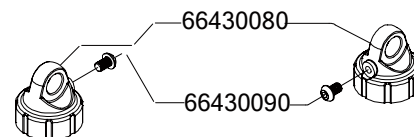
D2 Shock Assembly



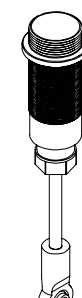
Front Build x2



Rear Build x2



Front Build x2



Rear Build x2

D3 Shock Spring



Shock Collars O-Rings ----- 4

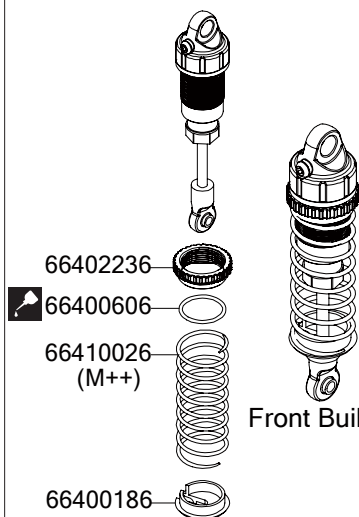
Shock Collars O-Rings

Front Shock Spring M++ ----- 2

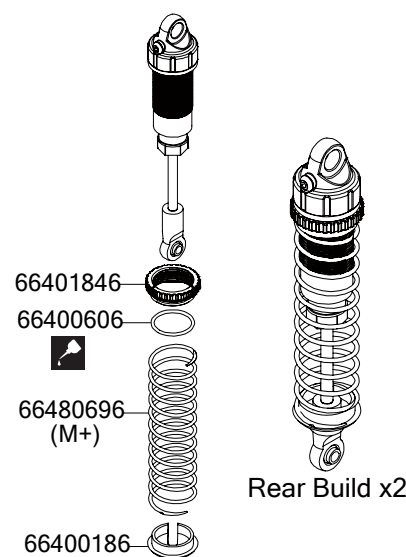
Rear Shock Spring M+ ----- 2

Shock End & Spring Cup Set & Rod End ----- 4

Shock End & Spring Cup Set & Rod End



Front Build x2



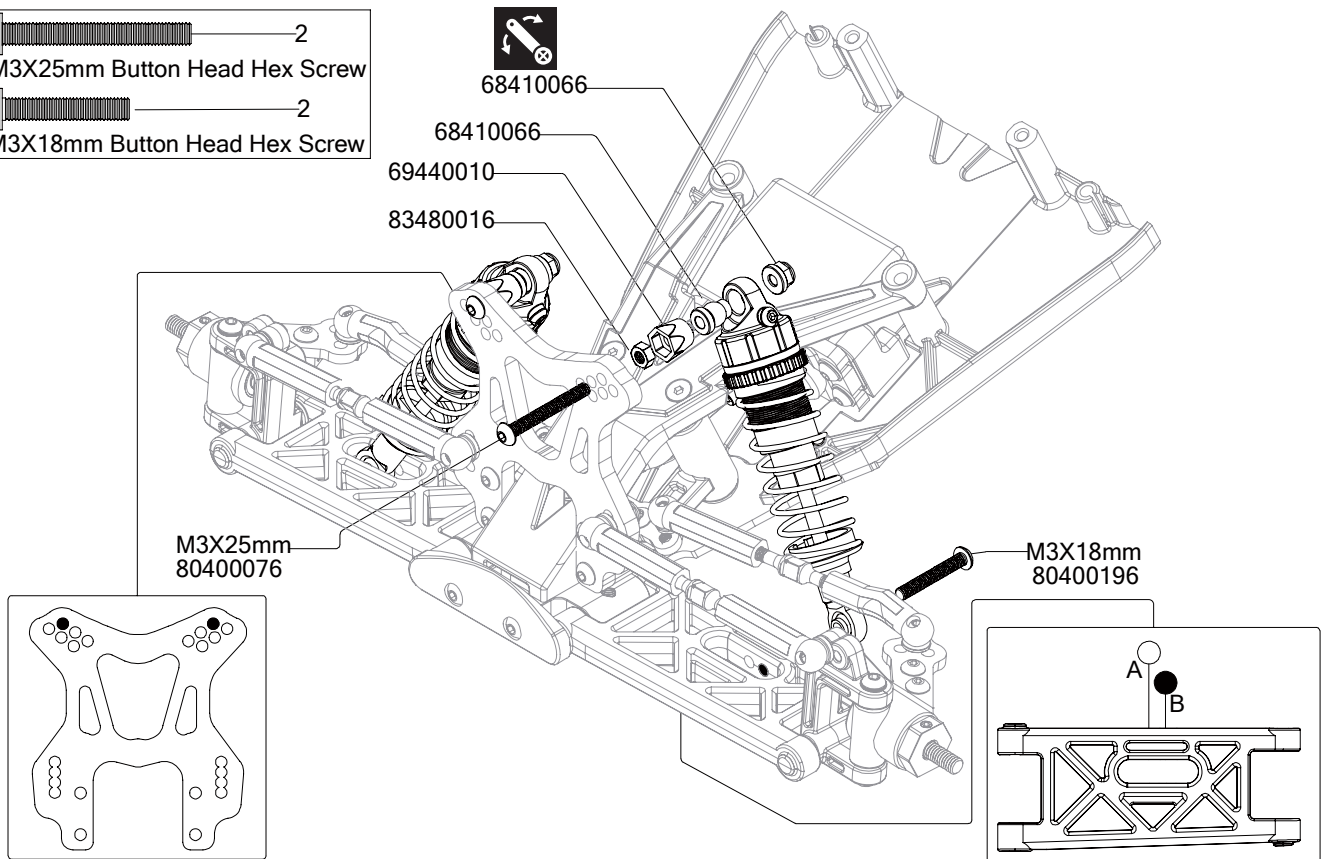
Rear Build x2





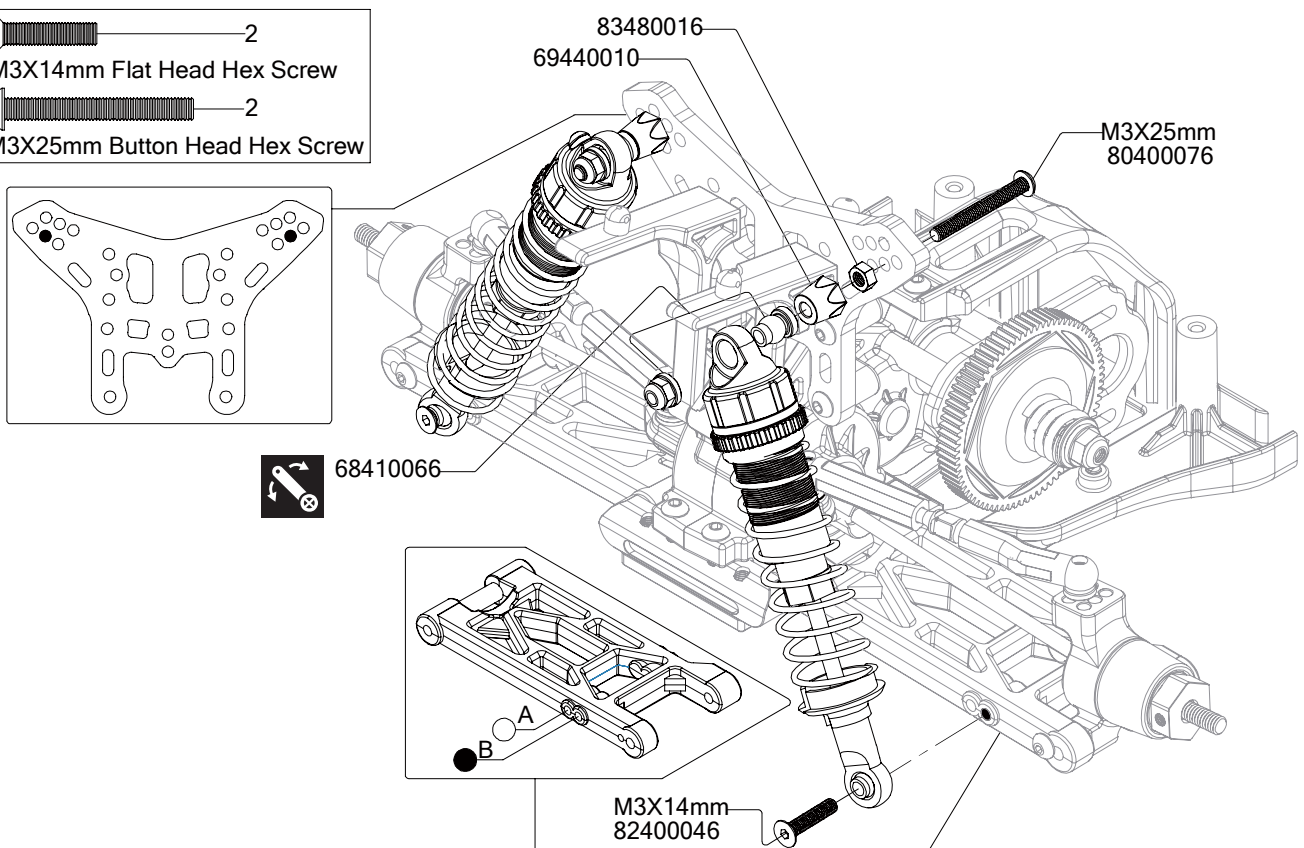
D4 Front Suspension

- 2
M3X25mm Button Head Hex Screw
- 2
M3X18mm Button Head Hex Screw



D5 Rear Suspension

- 2
M3X14mm Flat Head Hex Screw
- 2
M3X25mm Button Head Hex Screw



Part Bags used.



Ensure smooth non-binding movement while assembling.



D6 Motor

-  2
 M3X6&8mm Button Hwad Hex Screw
 2
 3X8mm (Washer)

M3X8mm
 80400036
 or
 M3X6mm
 80400026

3X8mm
 (Washer)
 80400036



D7 BATTERY Plate

-  2
 M3X8mm Flat Head Hex Screw
 2
 M3X16mm Button Head Hex Screw

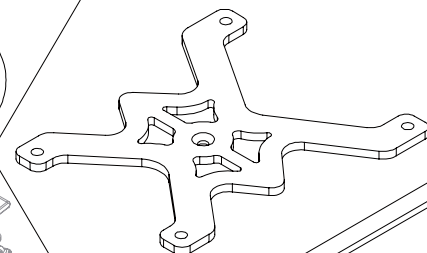
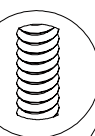
M3X12mm
 80400156

71000046

M3X12mm
 80400156

M3X16mm
 80400216

66430200



請在電池壓板,貼上3mm泡棉,
 以達到良好的固定及保護
 Please paste foam 3mm to the
 battery plate, it could be regular
 and protected.

66400036

可依個人行駛喜好
 將電池調整於前方與後方

You can adjust the battery to the front
 or rear side with your personal driving habit.

M3X8mm
 82400026

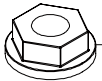




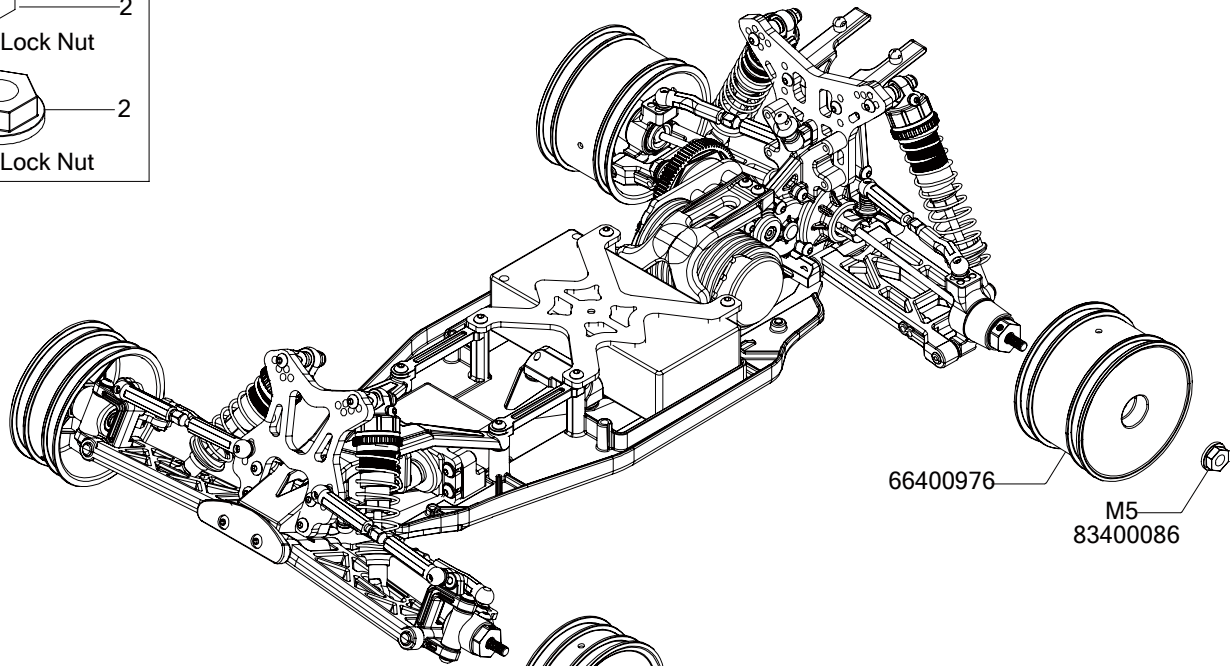
D8 Tires



2
M4 Lock Nut

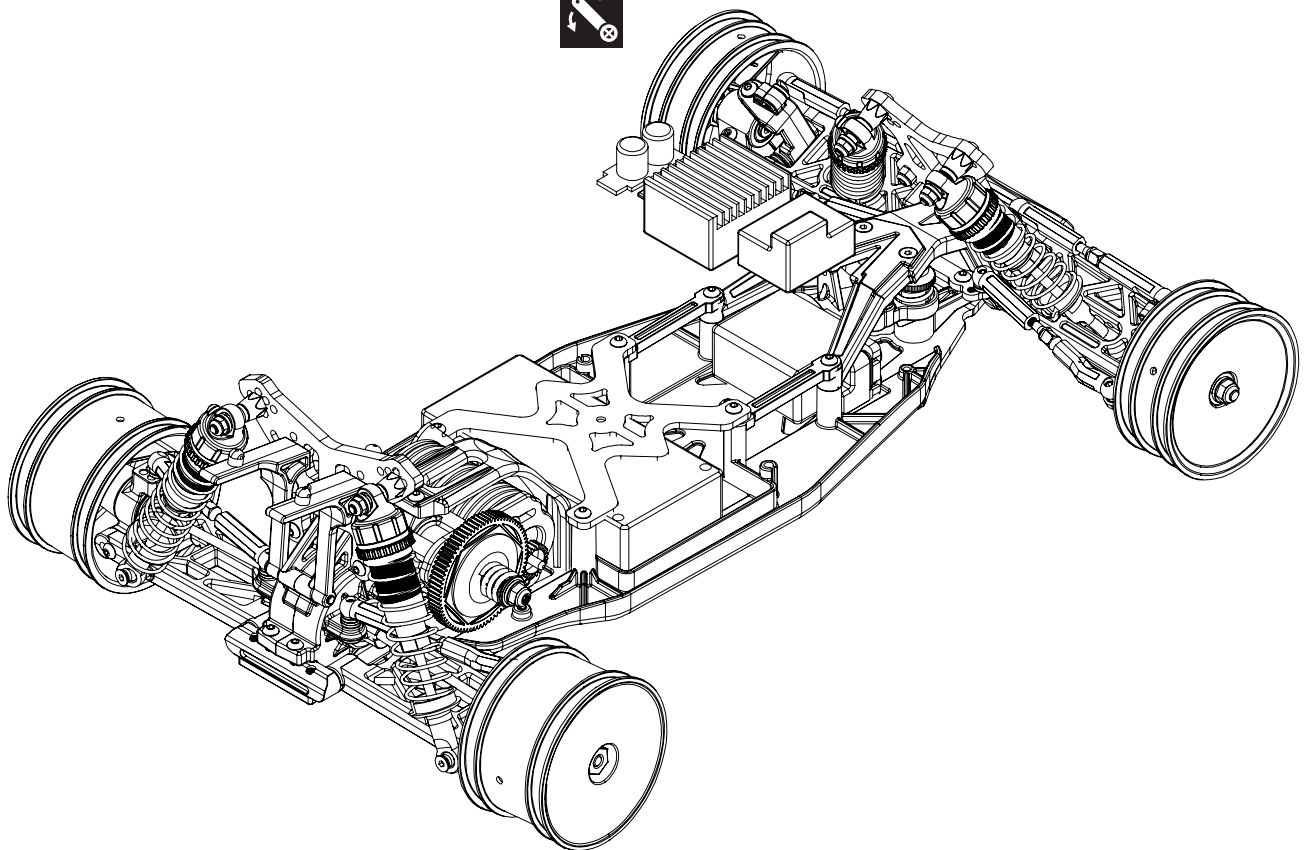


2
M5 Lock Nut



66400966

M4
83400036



Part Bags used.

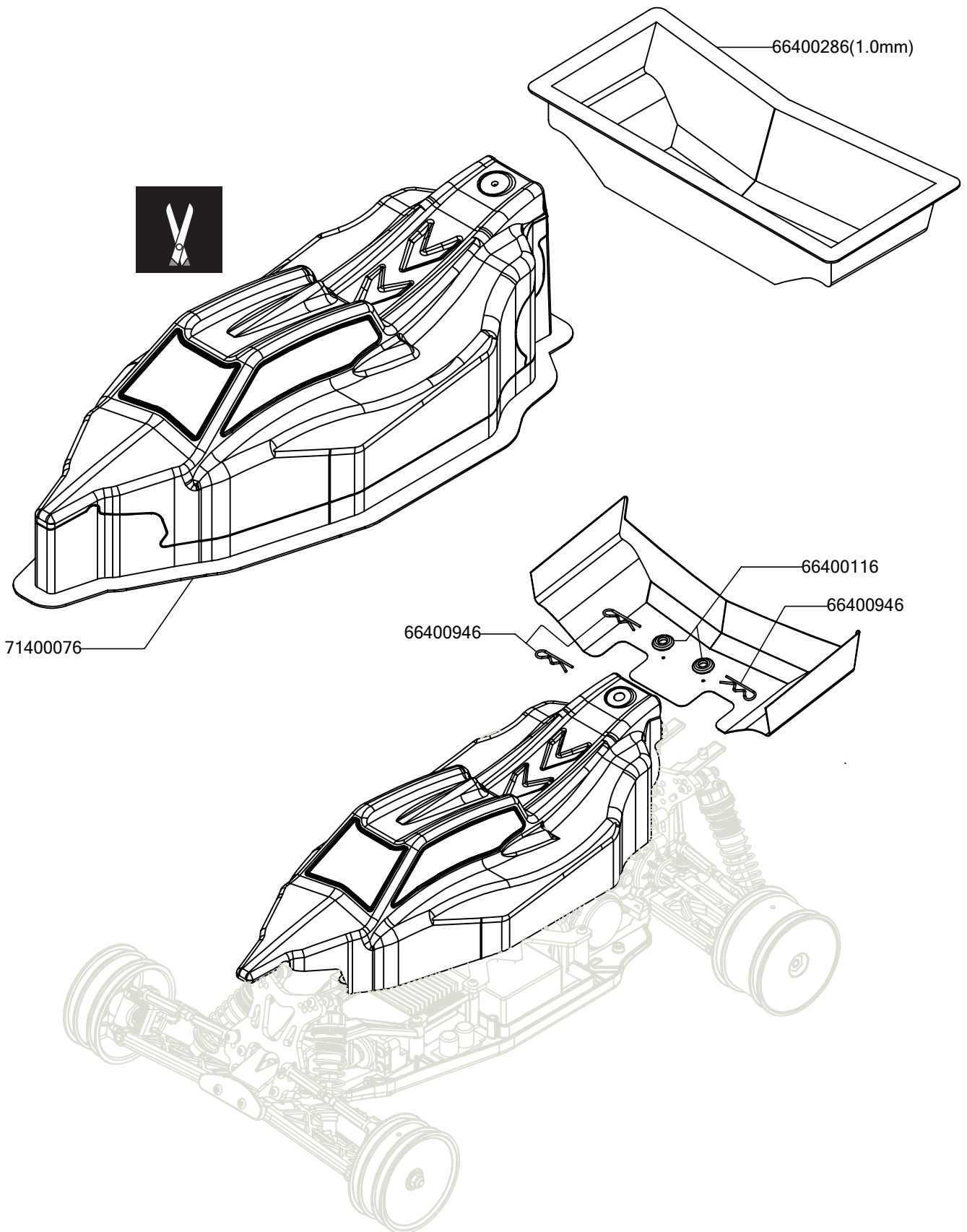


Ensure smooth non-binding
movement while assembling.



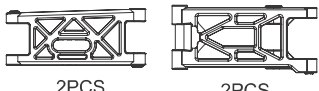
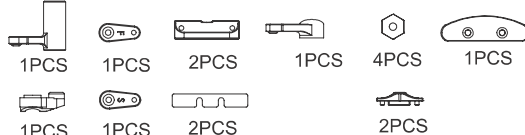
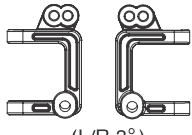
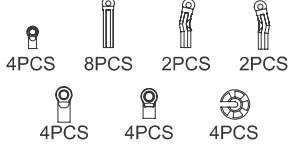
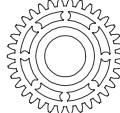
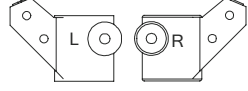
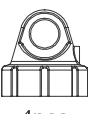
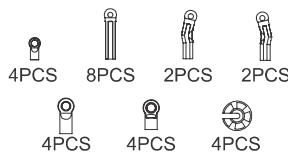
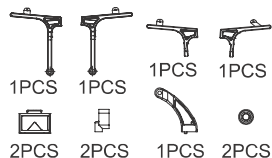
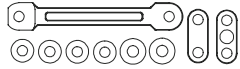
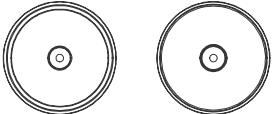
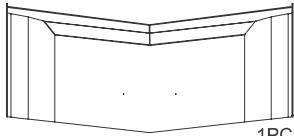
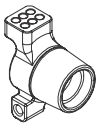
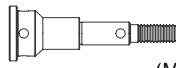
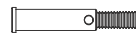
BAG
D

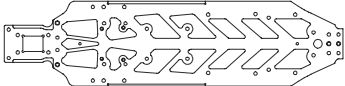
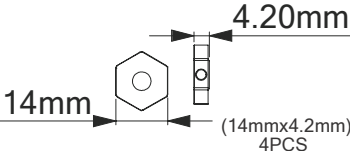
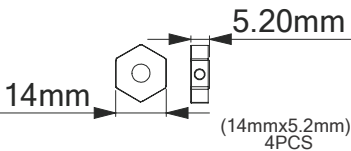
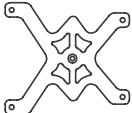
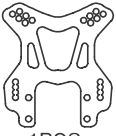
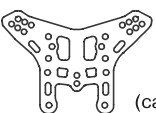
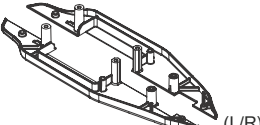
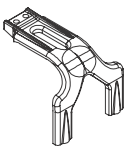
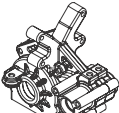
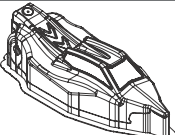
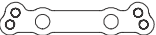
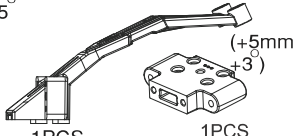
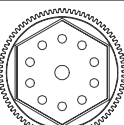
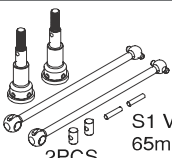
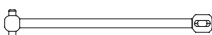
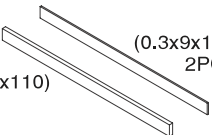
D9 Body&Wheels



馬達齒/齒輪

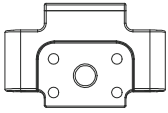
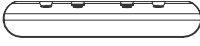
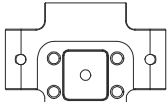
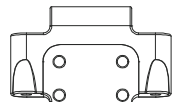
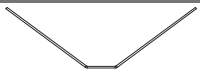
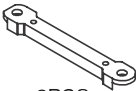
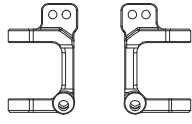
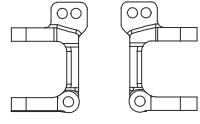
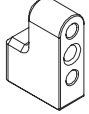
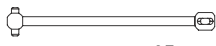
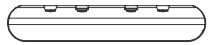
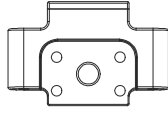
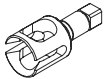


65400016  2PCS 2PCS	66400036  1PCS 1PCS 2PCS 1PCS 4PCS 1PCS 1PCS 1PCS 2PCS 2PCS		66401876  (L/R 3°)
66430090  4pcs(13x1mm) 4pcs(M2.5x4mm)	66400066  4PCS 8PCS 2PCS 2PCS 4PCS 4PCS 4PCS	66402016  2pcs(34T)	66480856  1PCS 1PCS
66430080  4pcs	66400066  4PCS 8PCS 2PCS 2PCS 4PCS 4PCS 4PCS	66400116  1PCS 1PCS 1PCS 1PCS 2PCS 2PCS 1PCS 2PCS	66430200  2pcs
66400176  16PCS 2PCS 2PCS	66400186  2PCS 2PCS 2PCS 2PCS	66480826  1pcs 1pcs	66480646  20T 1PCS Light weight
66400256  2PCS 2PCS	66480846  2pcs 4pcs(2.5x8mm)	85440110  5x8x0.1mm Washer 4PCS	66400286  1PCS
66480926  2pcs (+2-2cnc)	66401006  8PCS 8PCS 4PCS	67410266  2pcs (M5)	66400326  2PCS
66400336  1PCS	66400346  6PCS	66400356  2PCS	66401686  4pcs
66400376  1PCS	66480226  5x18 2PCS Light weight	66402056  2pcs	66400626  2PCS
79400016  2x11 4PCS	79400026  3x30 2PCS	79400036  3x36.8 4PCS	66400636  2PCS

66402266  1PCS	71400306  1PCS	76500066  1PCS	85440180  1PCS (RF)
68000040  (14mmx4.2mm) 4PCS	68440010  (14mmx5.2mm) 4PCS	83400086  M5 4PCS	71000046  (carbon) 1PCS
71000010  (carbon) 1PCS	71000026  (carbon) 1PCS	71000050  (L/R) 1PCS	71400036  1PCS
71400056  (A/B) 1PCS	71400076  1PCS	71400096  (RR-3°) 1PCS	66480626  2PCS
71400046  1PCS	71400106  (For S1 V3) 1PCS	67400106  25° (+5mm +3°) 1PCS	66480636  2PCS
71400116  (81T) 1PCS	71400126  S1 V3(FM) CVD 65mm M5 Set 2PCS	71400136  (65mm) 2PCS	99000010  (0.3x9x110) 2PCS (0.1x9x110) 2PCS
66400676  8PCS	66401056  10PCS	66480306  2PCS	98400046  6PCS
66480866  (M4.8x4.8mm)  (M4)	68480456  28mm 2PCS	66410026  M++ 2PCS	66480696  M+ 2PCS
66400756  5x8x2.5 Ball Bearing 6PCS	66400766  5x10x4 Ball Bearing 10PCS	66400776  5x13x4 Ball Bearing 2PCS	66400786  10x15x4 Ball Bearing 4PCS

26

Option Parts

66480456  (+5mm 3)lower swing arm mounts 22g (aluminum)	71400166  (RR-3.5) 1PCS	66480476  (+5mm 0)lower swing arm mounts 20g (aluminum)	66480536  (+5mm 7)lower swing arm mounts 66g (Brass)
66480736  PR S1 balance beam 1.4mm	71000036  carbon 2PCS	66480396  Mental C-hubs(0 degrees) Left & Right	66480326  Mental C-hubs(4 degrees) Left & Right
66480946  1PCS  2PCS carbon	66480936  (cnc) 2pcs  (M3X8mm) 2pcs	71480016  65mm 2PCS Light weight	71400156  1PCS (RR-3.5)
83000020  (M5) 4PCS	66481186  (+5mm 7)lower swing arm mounts (aluminum)	71400406  (RR-1.5) 1PCS	66481106  2PCS +0.8mm

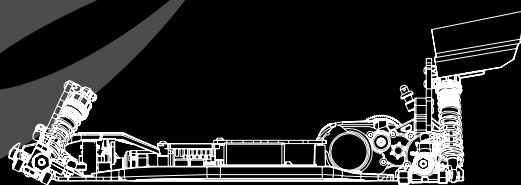
NOTE

NOTE

[illegible]

PRSTV3(FM)

1/10 ELECTRIC 2WD RACING PRO KIT



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