



PR SIV3(FM)

2023 1/10 ELECTRIC 2WD Off Road SPORT Kit For Carpet
ITEM NO:71400437

SPORT



Specifications

- Length: 411mm
- Width: 250mm
- Height: 145mm
- Wheelbase: 285mm
- Front track: 248mm
- Rear track: 250mm
- Lower gull Wishbone
- Sealed Gear Differential
- 2.5mm CNC Aluminium Chassis
- 4mm Carbon Fibre Shock Towers and 2.0mm Battery Strap
- Laydown transmission optimised for medium to high grip
- 12mm Hex fit wheels
- Aluminum shock body



● BEFORE INSTALLATION	01
● BAG A	03-06
Chassis Guard Installation	
Servo Saver	
Steering Servo	
● BAG B	06-11
Front Upper Turnbuckle Assembly	
Turnbuckle Assembly-Steering Rod	
Front Spindle[Left Side]	
Front Spindle(Right Side)	
Rear Hud&Cva	
Rear Suspension	
● BAG C	11-17
Transmission Assembly	
Gear Differential	
Rear Shock Stay	
Rear Grar Box	
● BAG D	18-22
Shock Assembly	
Shock Spring	
Front Suspension	
Rear Suspension	
Motor	
Battery Plate	
Tires	
Body&Wheels&Antenna Tube	
● SETUP SHEET	23
● SPARE PARTS &OPTIONAL PARTS	24

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 Adhesive
- Silicon gear diff oil

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.



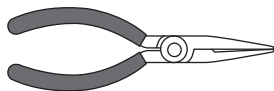
Apply oil.

- 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.

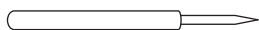
TOOLS REQUIRED

CAUTION: Handle tools carefully!

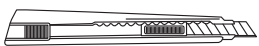
- Needle Nose Pliers



- Awl



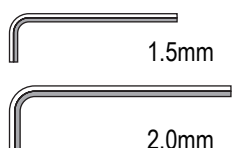
- Sharp Hobby Knife



- Silicone Shock Oil



- Hex Wrench



- Grease



- Wire Cutters



- SP Knife Edge Reamer

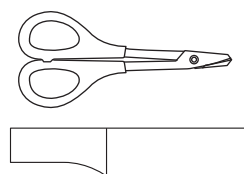


- Do not pre-drill as precise drilling of 1mm to 15mm holes can be performed after body shell painted.

- Screw Cement

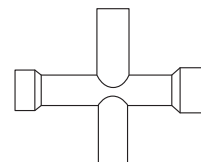


- Round Cutter & Sander



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

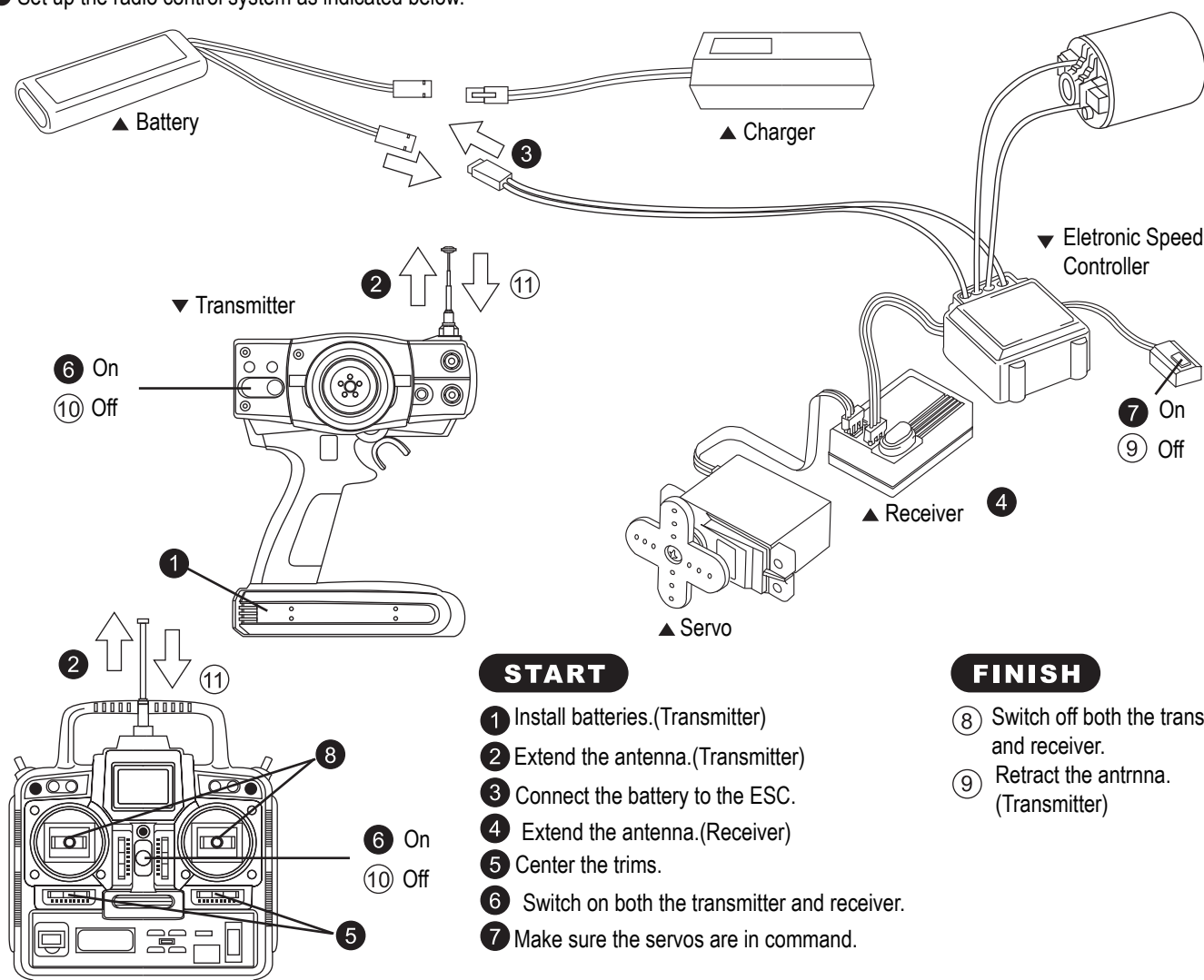
- Cross Wrench



- 5mm-5.5mm-7.0mm

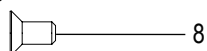
RADIO PREPARATION

- 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.

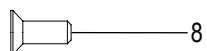


BAG
A

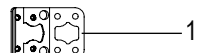
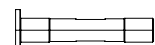
A1-Chassis Guard Installation



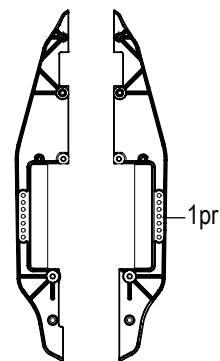
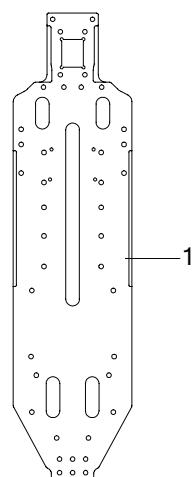
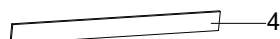
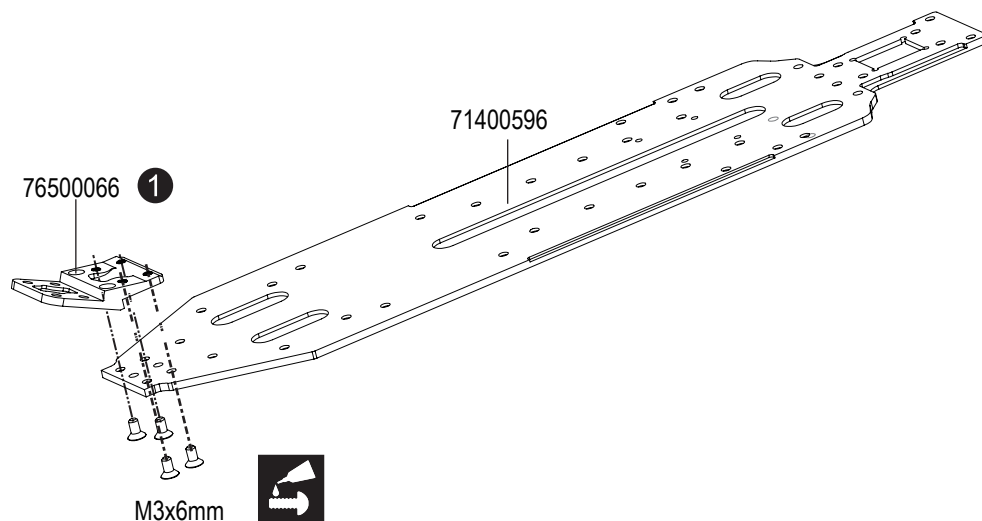
82400016 M3x6mm



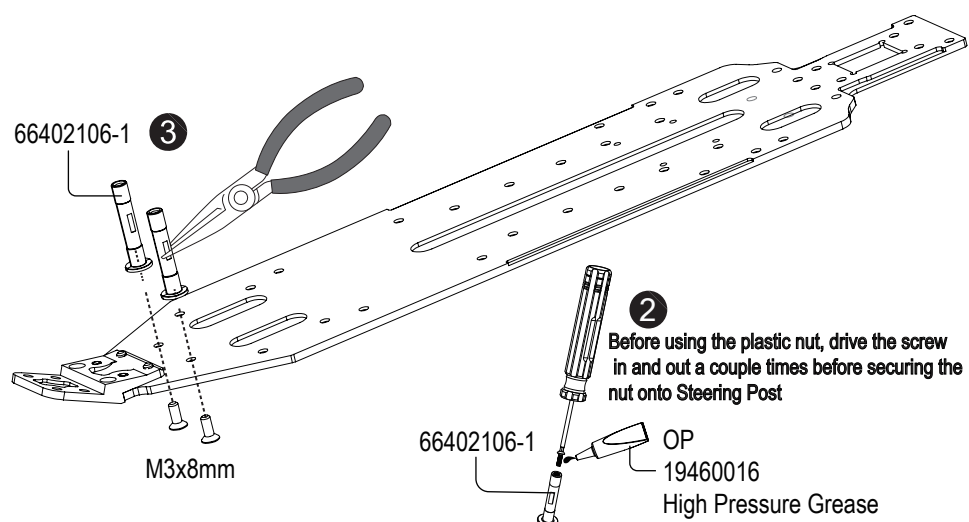
82400026 M3x8mm

76500066
Aluminium Chassis Kick Up Plate

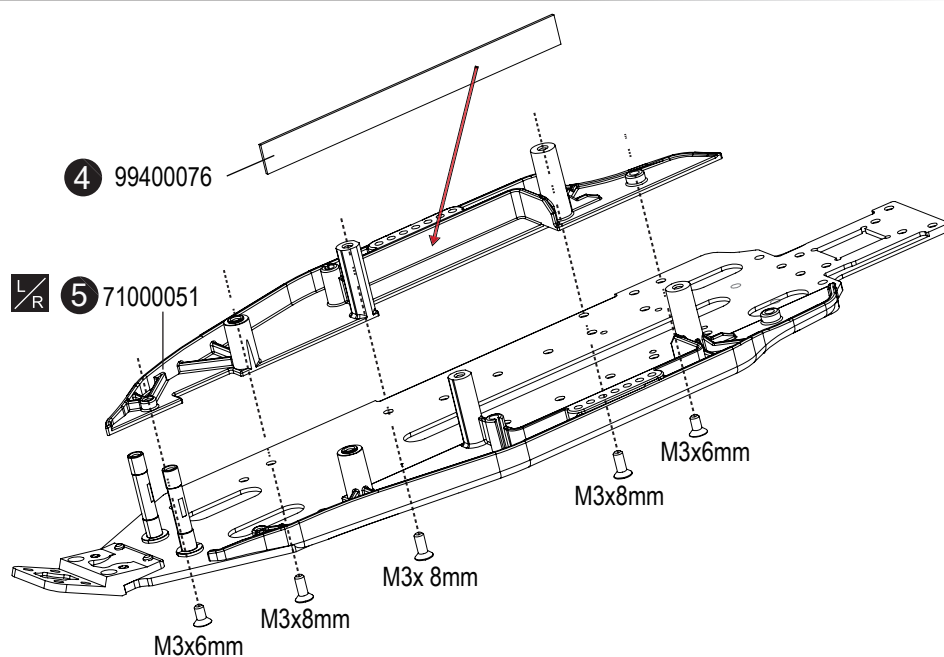
— 2

66402106-1
Steering Post 27.5mm71000051
PR S1 V4 (FM) Side Plate Set71400596
S1V3 Aluminum chassis99400076
1x9x110mm&3x9x110mm
Foam Set

Apply threadlocker (screw cement)

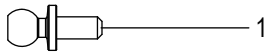


5 71000051

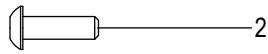




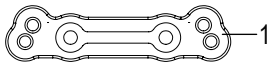
A2-Steering Bellcranks



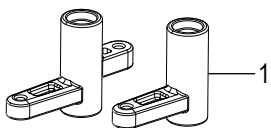
68430086 M4.8x6mm(-0.8mm)



80400046
M3x10mm Button Head Cap Screw



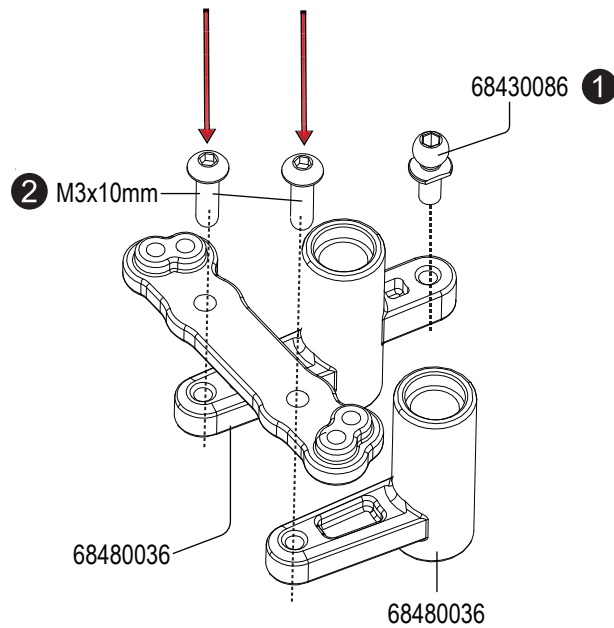
66000020-2
Ackerman Plate



68480036
Steering Linkage



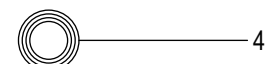
鎖緊退回半圈
Do not over tighten



A3-Steering Bellcranks

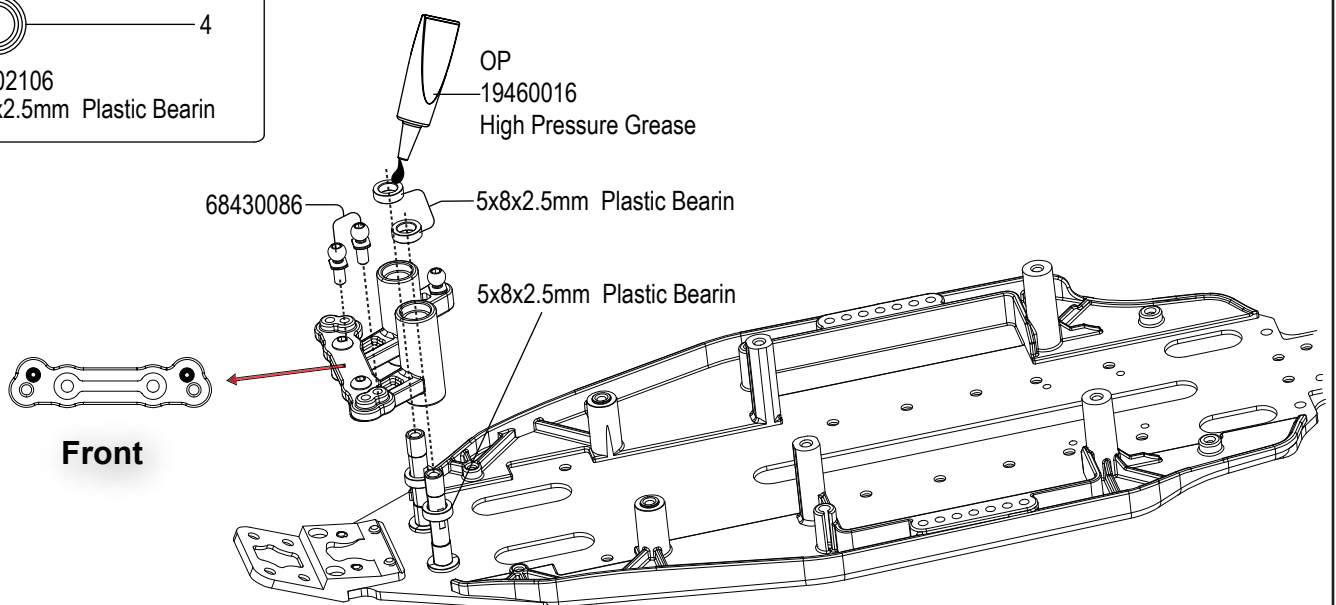


68430086 M4.8x6mm(-0.8mm)



66402106
5x8x2.5mm Plastic Bearin

OP
19460016
High Pressure Grease



Part Bags used.



Do not over tighten



Assemble in the
specified order



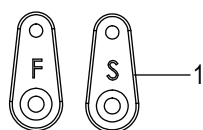
A4-Steering Servo

1
87400096
M3x8mm Set Screw

1
68430086
M4.8x6mm(-0.8mm)

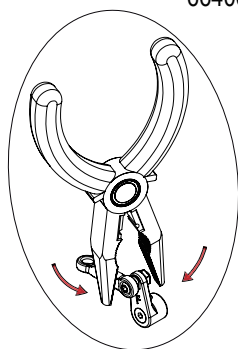
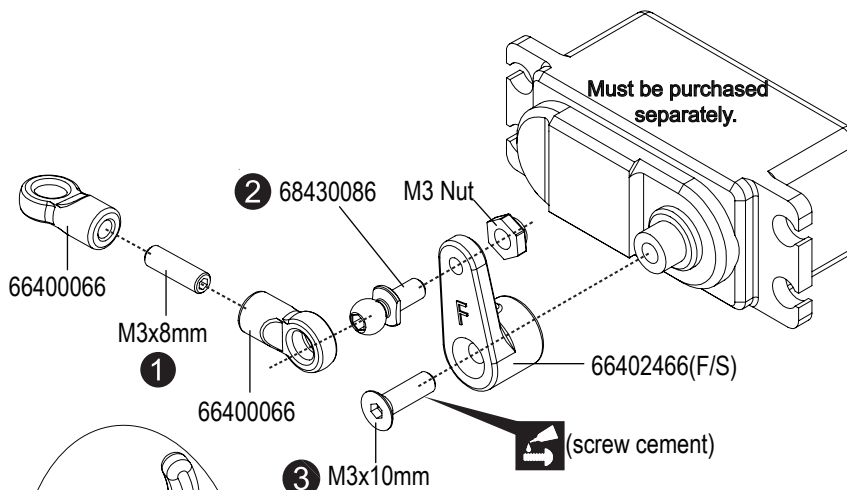
1
82400106 M3x10mm

1
83400106 M3 Nut

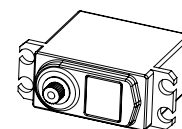


66400036
Servo horns

2
66400066
Rod End

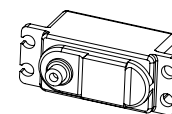


Modify



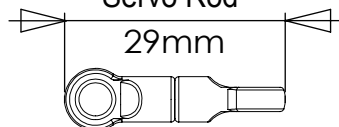
Std. Profile Servo

Stock



Low Profile Servo

Servo Rod
29mm



伺服機要安裝在底盤時，請先確認
伺服機的中立位置。

When installing the servo on the
chassis, please confirm the neutral
position of the servo first.

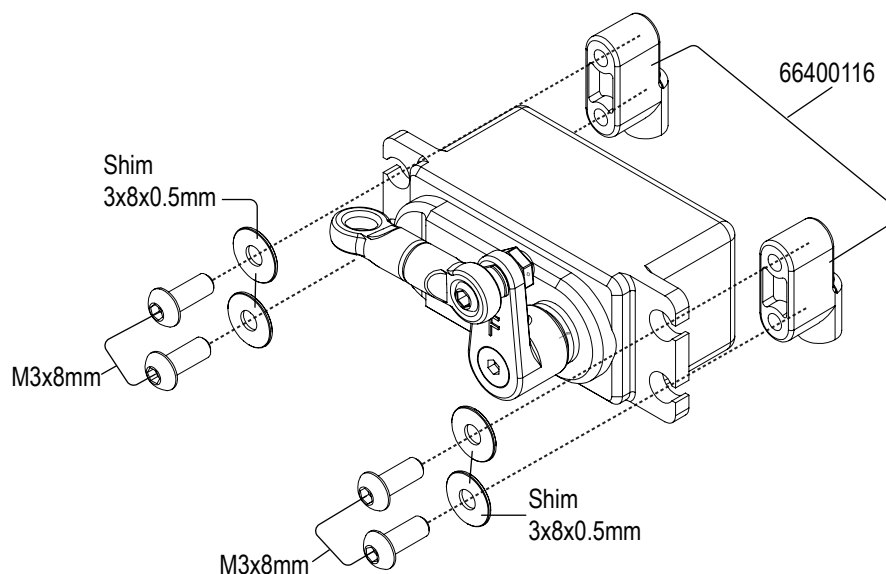


A5-Steering Servo

4
80400036
M3x8mm

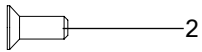
4
85000010
Shim3x8x0.5mm

2
66400116
Servo Mount

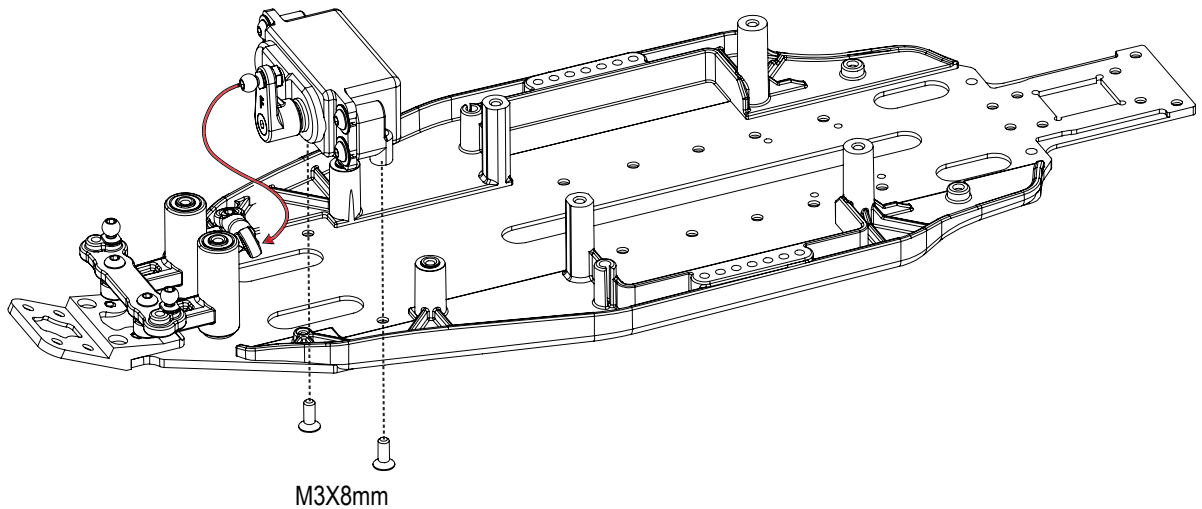




A6-Steering Servo



82400026
M3X8mm



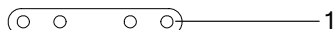
B1-Front Suspension



80400036
M3x8mm



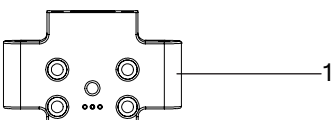
66430110 3X36.8mm pin



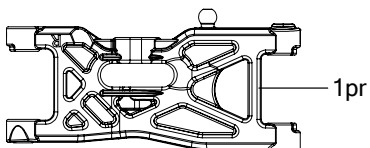
66000020-1



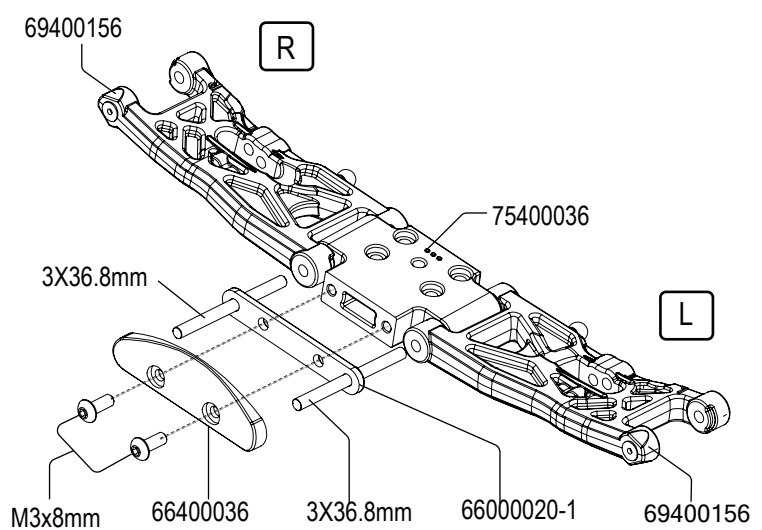
66400036



75400036 Caster 3 Degree



69400156
Front Lower gull Wishbone

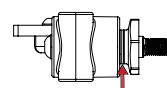




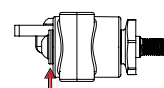
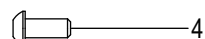
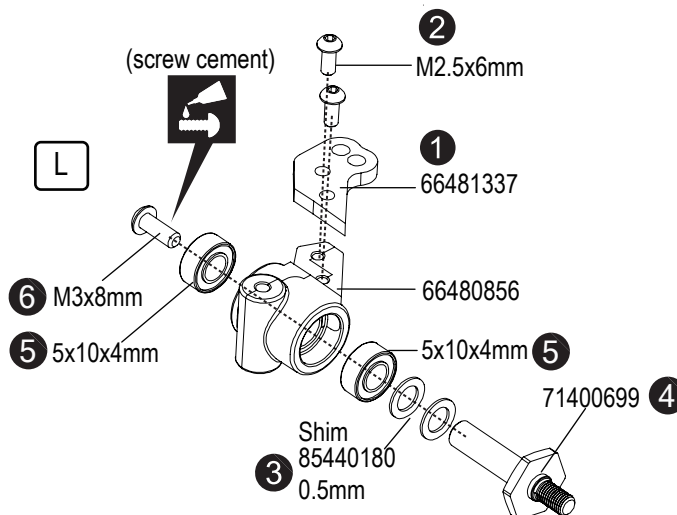
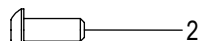
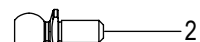
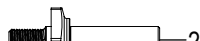
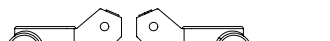
B2-Front Spindle (L&R) Side

Corner Speed

Stable

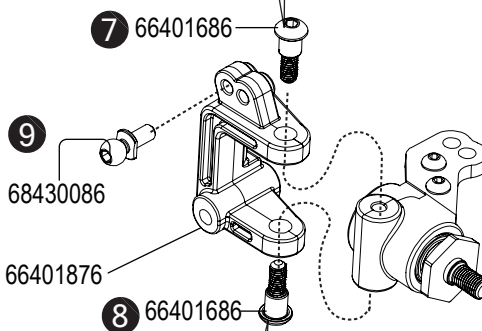
85440180
0.5 mm Shim (2)

Sensitive

85440180
0.5 mm Shim (2)
 Assemble left and right sides the same way.
4
80400186
M2.5x6mm2
80400036
M3x8mm2
68430086
M4.8mmx6mm
Lower 0.8mm2
68430076
M4.8x10mm2
83400026-M3 Lock Nut4
66401686
Steering Screw Stepped4
89430010
5x10x4mm Ball Bearing4
85440180 Shim 5x8x0.5mm2
66481337
Carbon Fibre Steering Plates2
71400699-Front Wheel Hub Axle1pr
66480856-Steering Block1pr
66401876-Caster Block 3 degrees2
68410066
Plastic 4mm

L

Do not over-tighten this screw. They should be /tight but still allow the parts to move freely

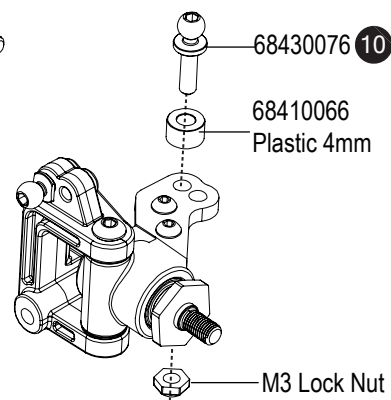
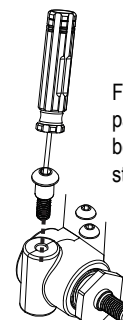


Do not over-tighten this screw. They should be /tight but still allow the parts to move freely

 Assemble left and right sides the same way.


IMPORTANT

For the threading of plastic parts... "Pre-thread holes before installing steering hub."

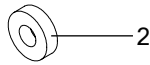




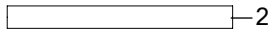
B3-Front Suspension(L&R)



80400016
M2.6x4mm Button Head Hex Screw

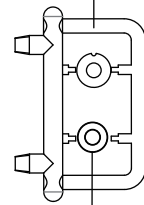


69400156 2.0mm

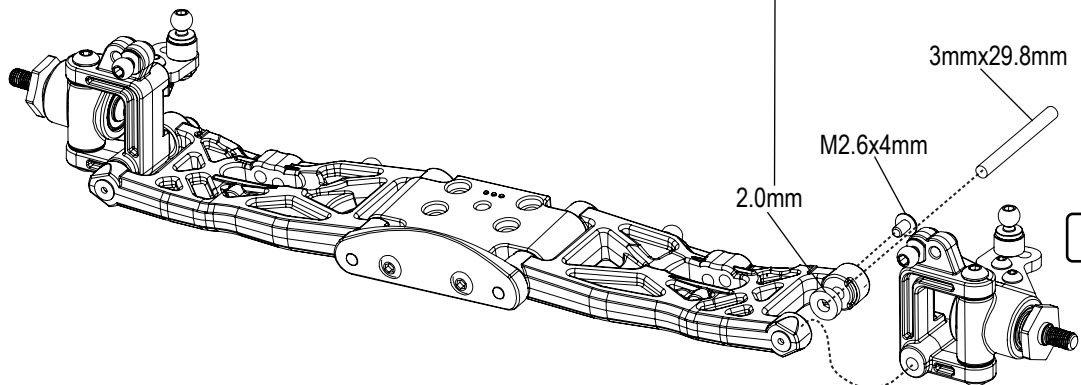


66430100
3mmx29.8mm Pin

69400156



R



3mmx29.8mm

M2.6x4mm

2.0mm

L



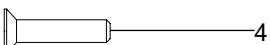
B4-Front Shock Stay



82400026 M3x8mm



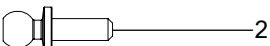
80400036 M3x8mm



82400046 M3x14mm



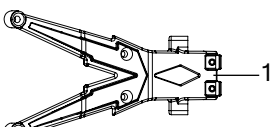
83400026 M3 Lock Nut



68430046 M4.8x8mm



94500015
Carbon Fiber Front Shock Tower



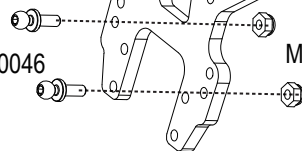
75400036-Front Chassis Top Plate

1

68430046

M3 Lock Nut

94500015



Do not over tighten

M3x8mm

2

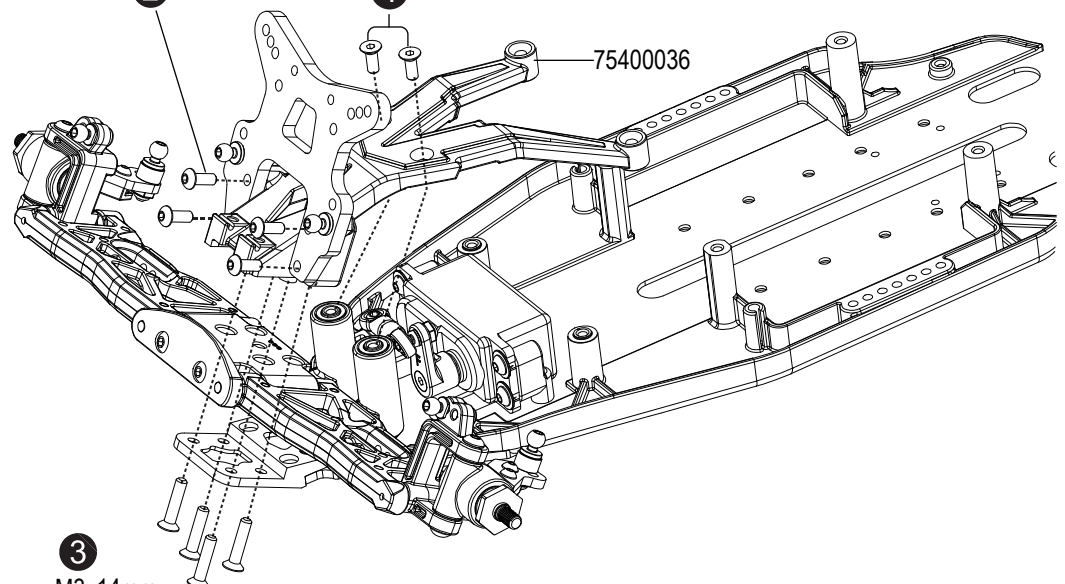
M3x8mm

4

75400036

3

M3x14mm



Part Bags used.



Assemble in the specified order



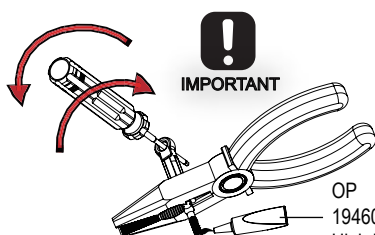
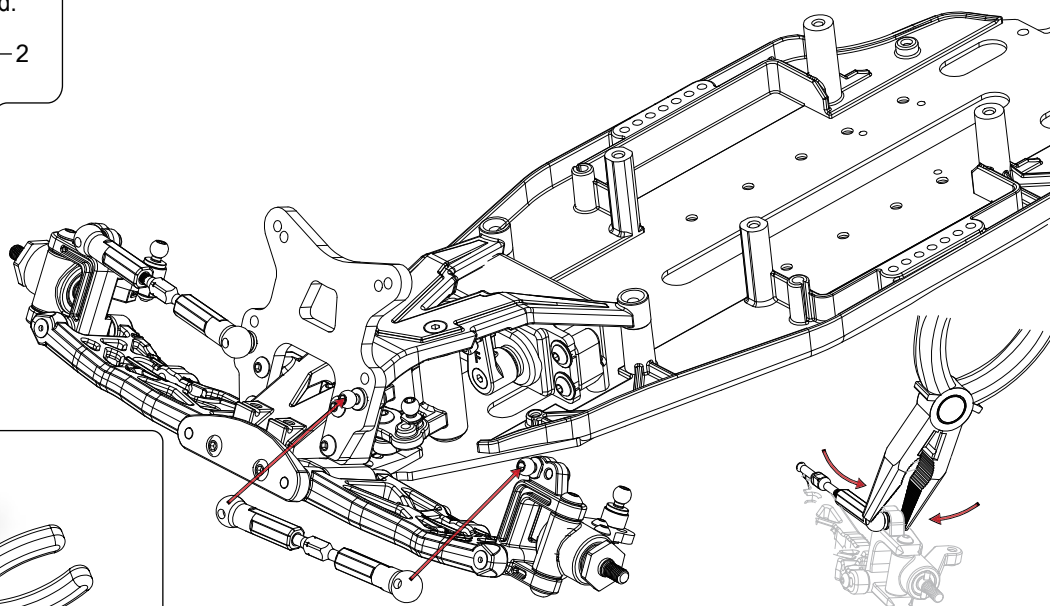
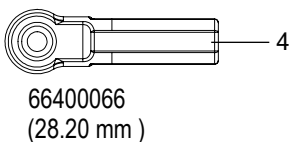
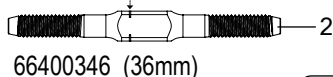
Do not over tighten

B5-Front Upper Turnbuckle Assembly



Assemble left and right
sides the same way.

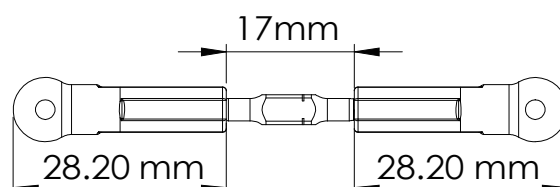
One side is reverse threaded.



Thread and unthread the turnbuckle
into the plastic rod end a few times to
allow easier adjustment after assembly.

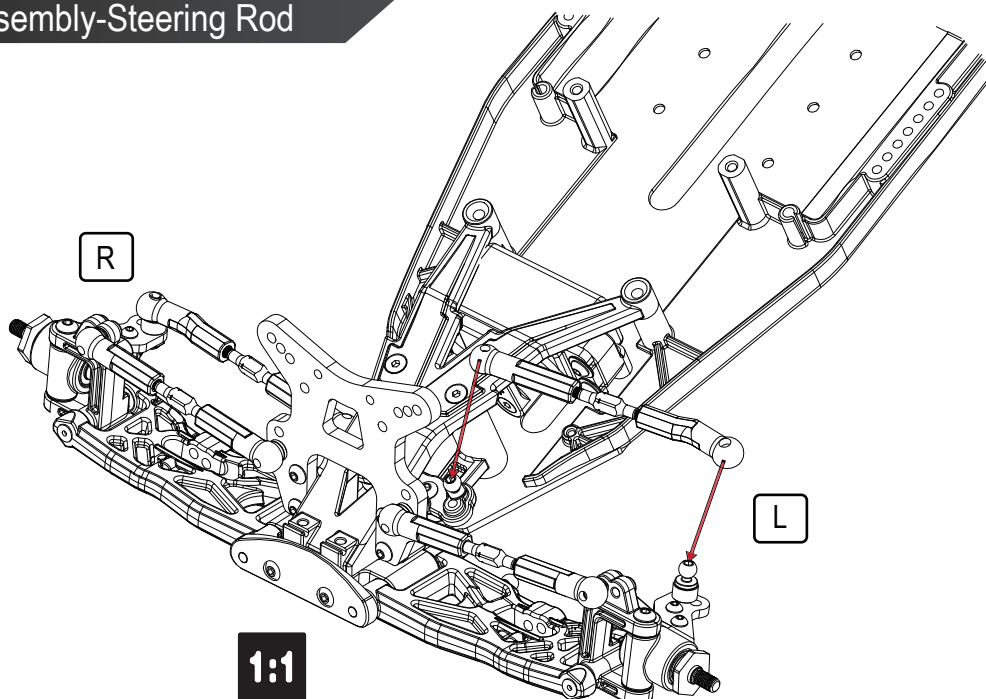
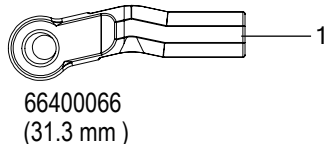
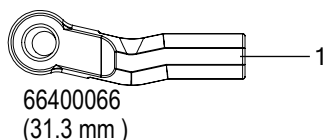
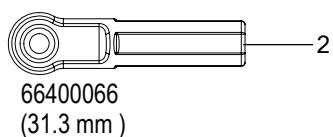
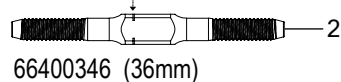
OP
19460016
High Pressure
Grease

1:1

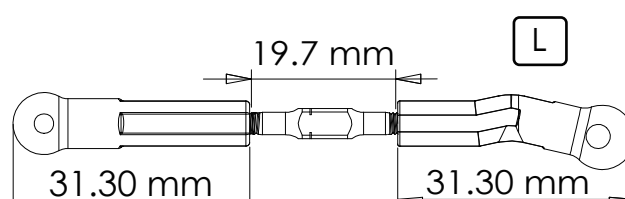
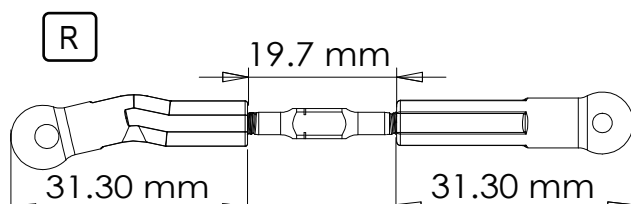


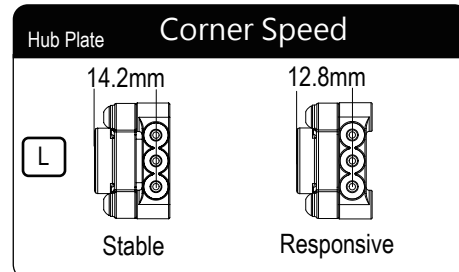
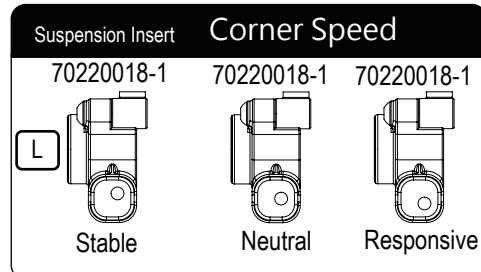
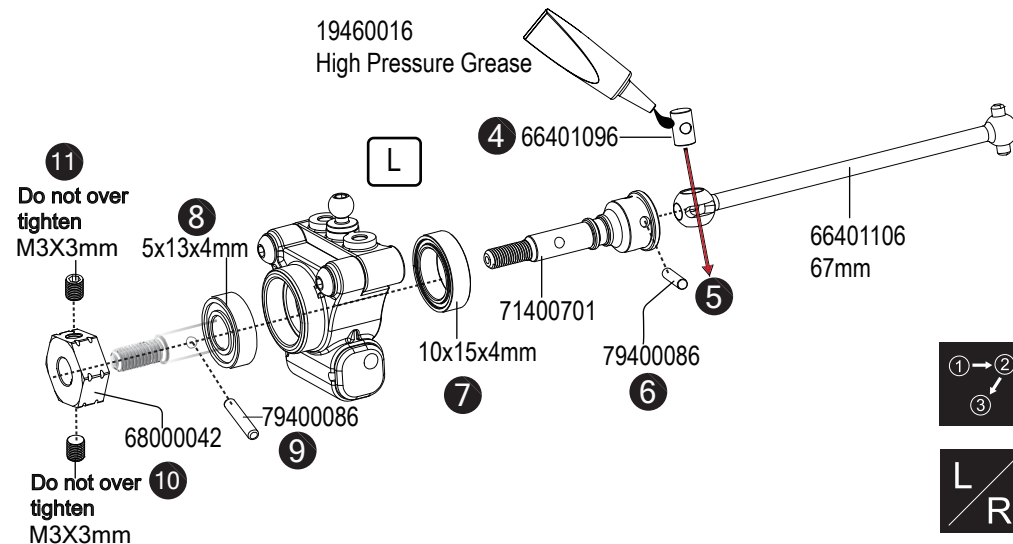
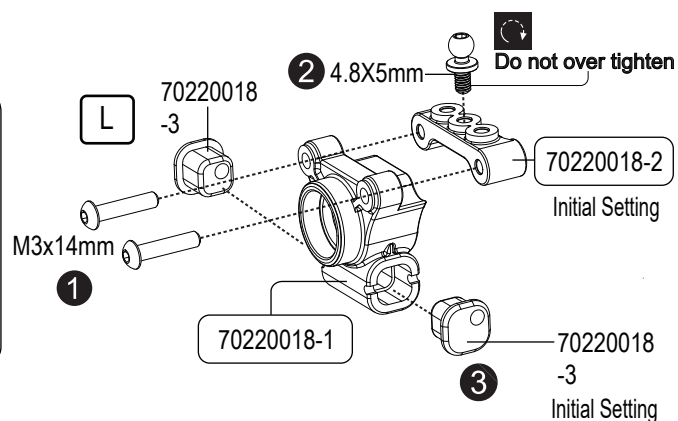
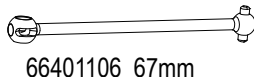
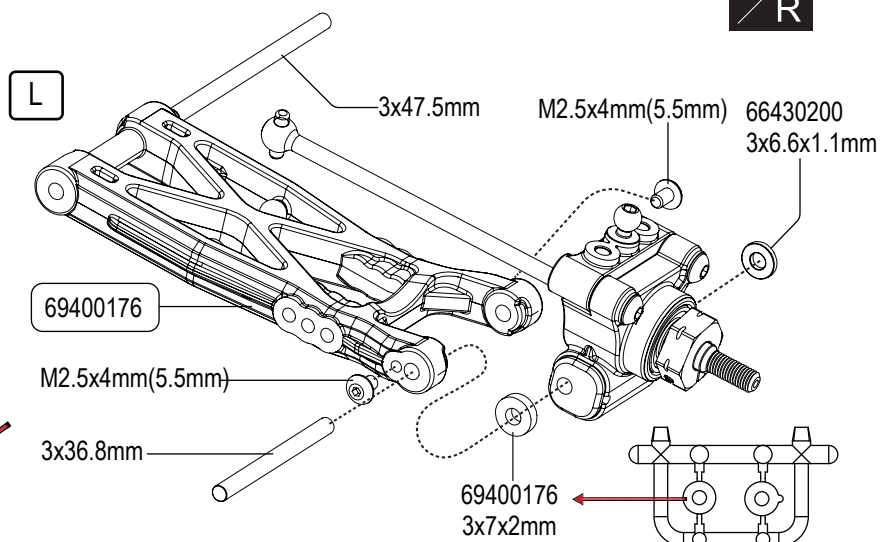
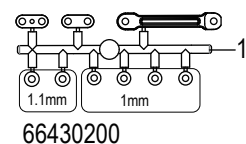
B6-Turnbuckle Assembly-Steering Rod

One side is reverse threaded.



1:1

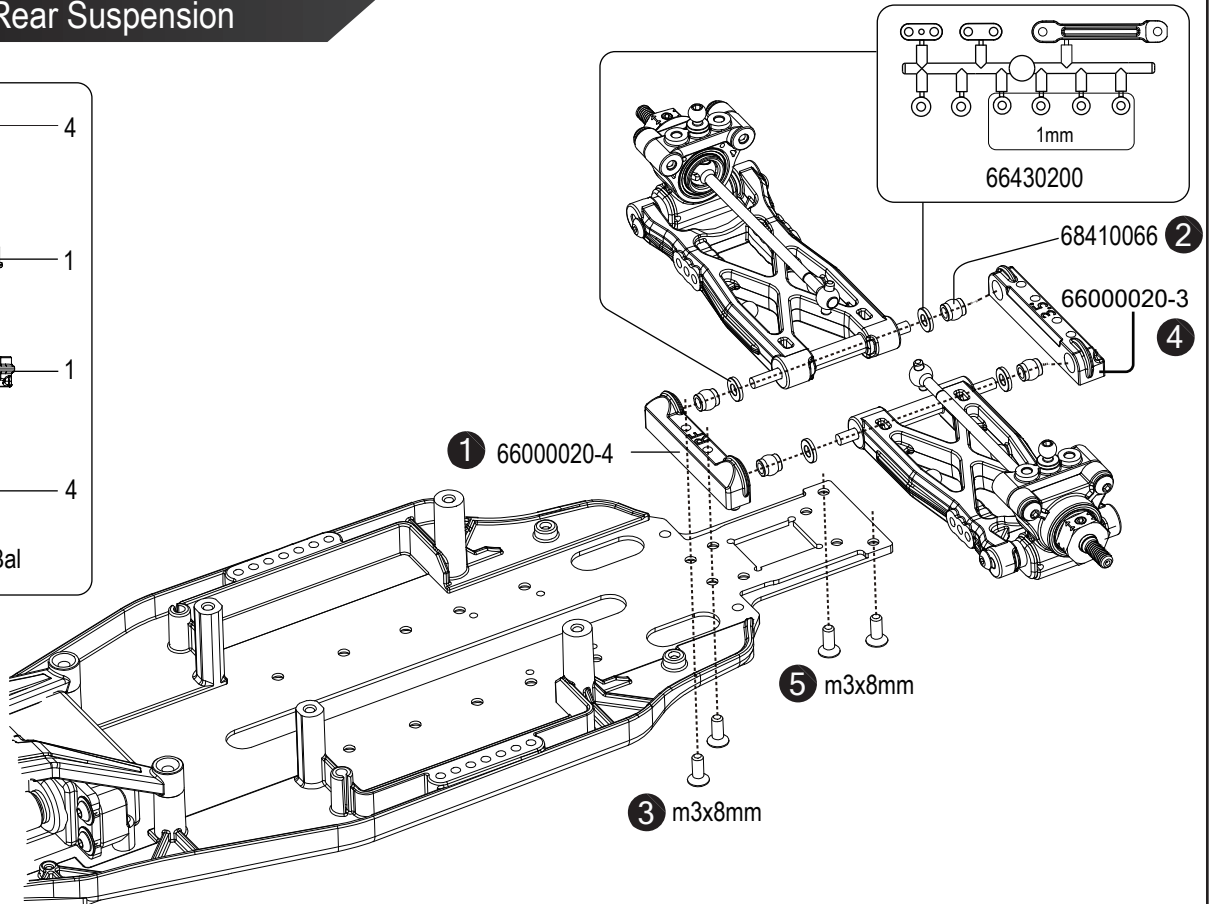


 BAG
B BAG
B



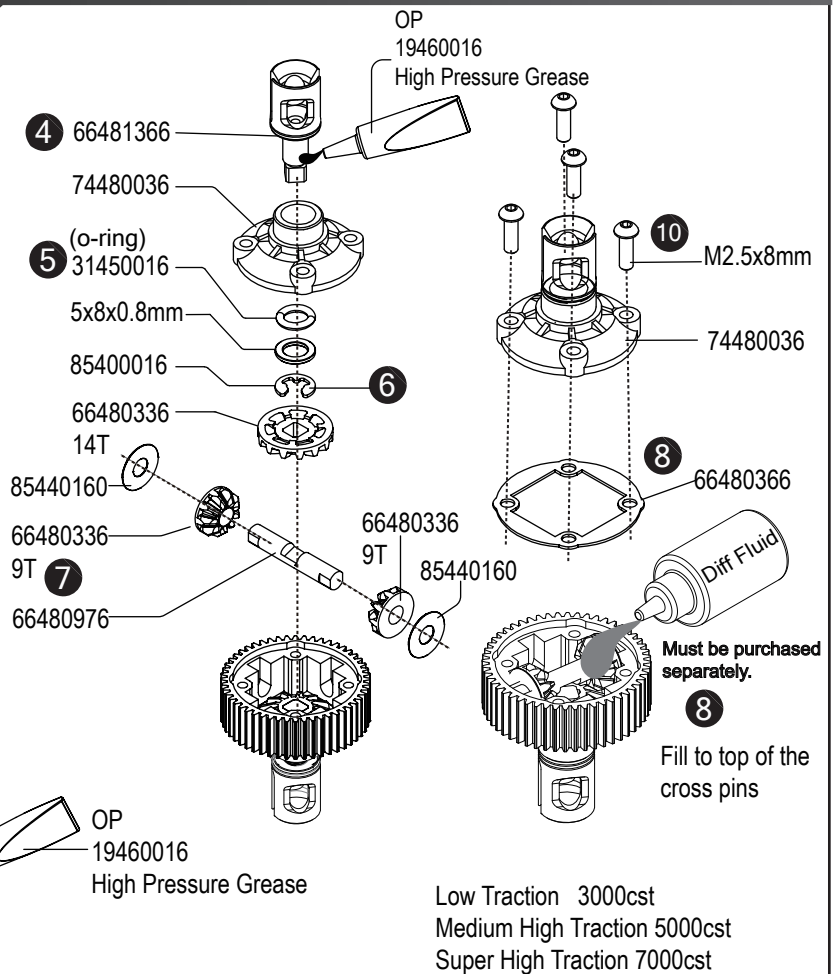
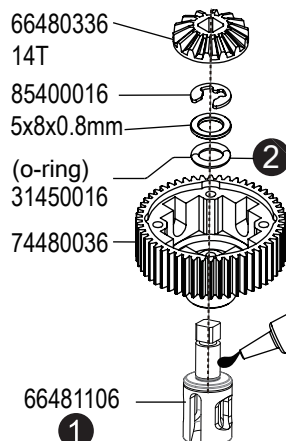
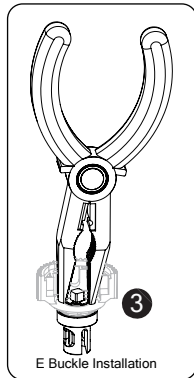
B9-Rear Suspension

- 82400026
M3x8mm 4
- 66000020-4/RF 1
- 66000020-3/RR 1
- 68410066
3x5.5mm Pivot Bal 4



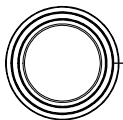
C1-Gear Differential

- 80000021
M2.5x8mm 4
- 85440170
5x8x0.8mm Shim 2
- 85440160
4x10x0.15mm Shim 2
- (o-ring)
31450016 2
- 85400016
3.5 E Buckle 2
- 66480976 1
- 66480366 1

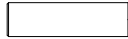




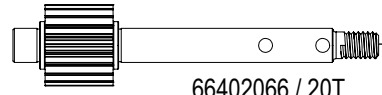
C2-Transmission Assembly



89430030
10x15x4mm Ball Bearing



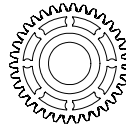
66480236 / 5x18mm
Aluminium Idler Shaft (silver)



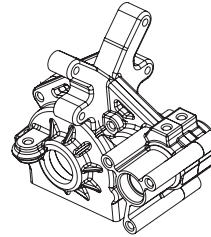
66402066 / 20T



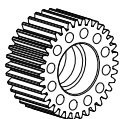
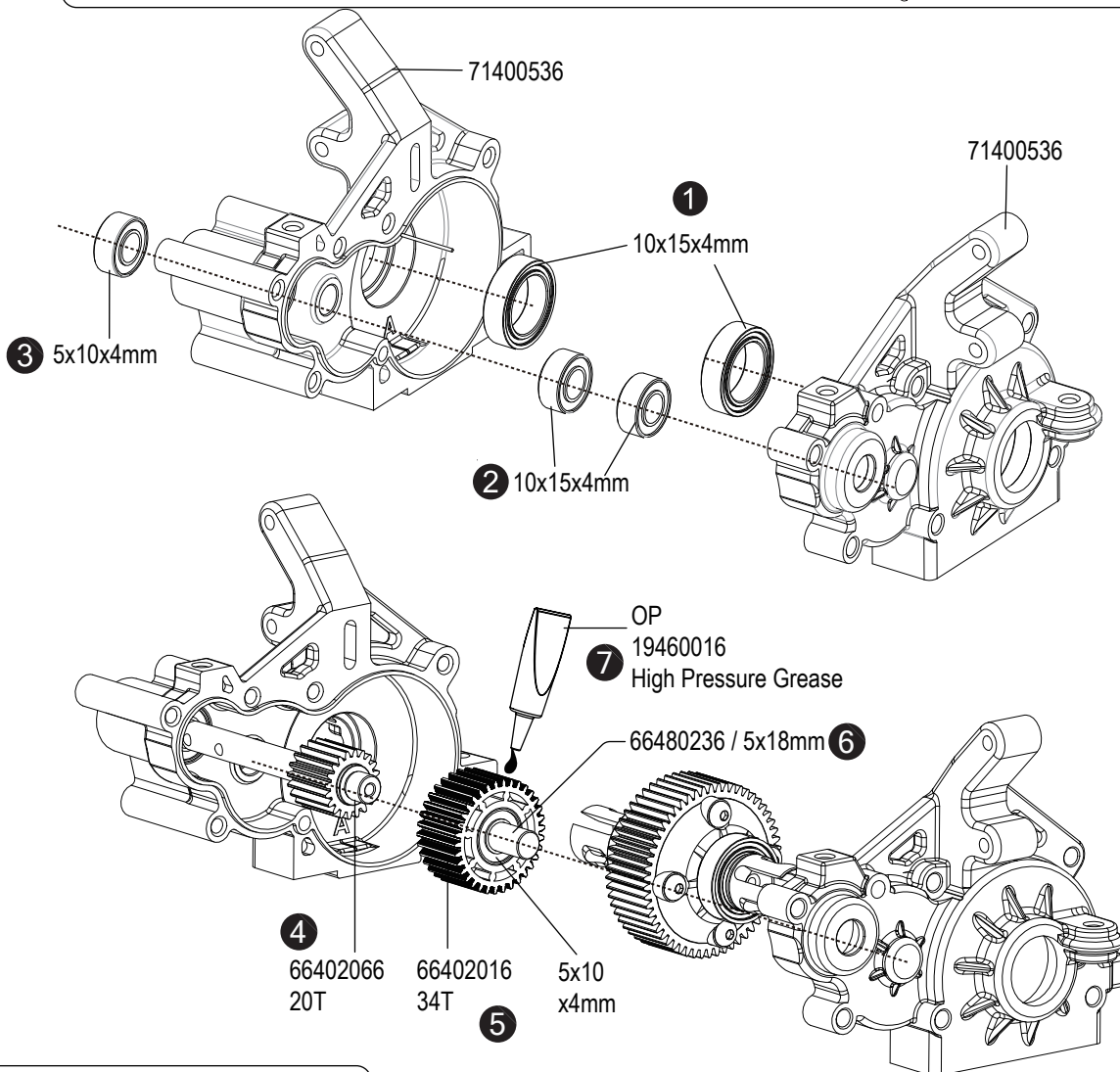
89430010
5x10x4mm Ball Bearing



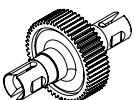
66402016 / 34T



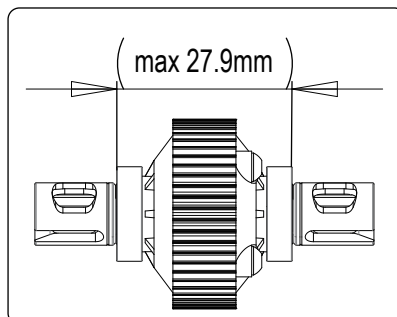
71400536



OP
66402086
34T Aluminium
Idler Gear



OP
66402686-S1 Ball Diff
Outdrive Set +1.3mm



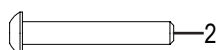
Part Bags used.



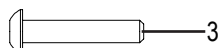
Assemble in the
specified order



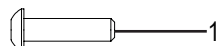
C3-Transmission Assembly



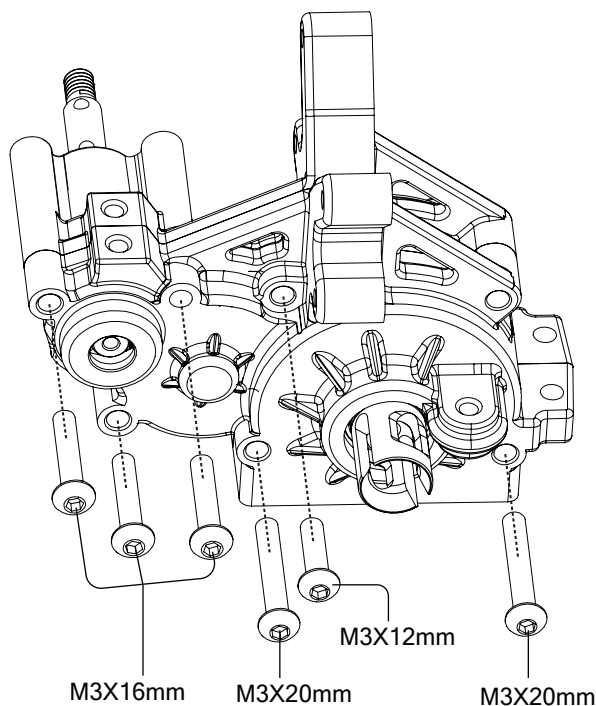
80400066
M3X20mm



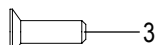
80400216
M3X16mm



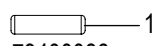
80400206
M3X12mm



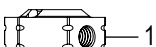
C4-Transmission Assembly



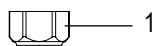
82400106
M3X10mm



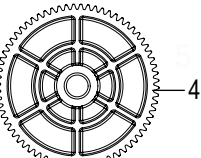
79400086
2x9.8mm Pin



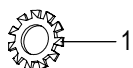
68000042
Wheel Hex12mm x6mm



83400036
M4 Lock Nut



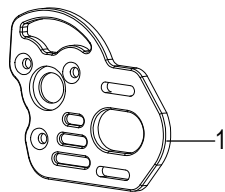
66480572-69T
66480573-70T
66480574-71T
66480573-72T



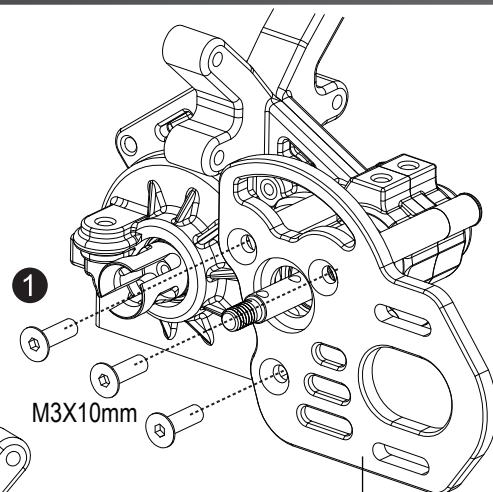
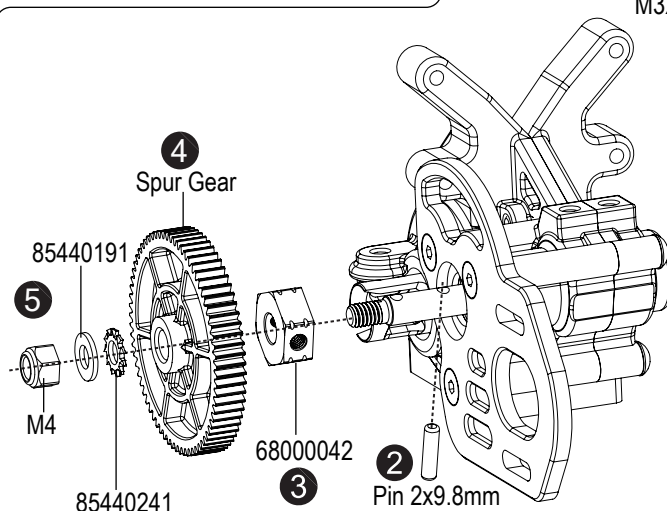
85440241
M4 antislip shims



85440191
M4x8x0.8mm Shim

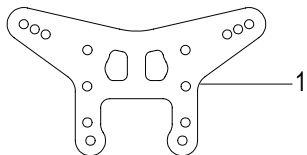
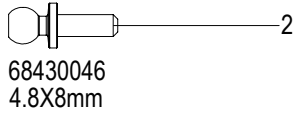
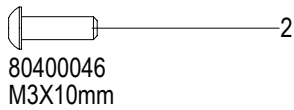


71400646
Motor Plate

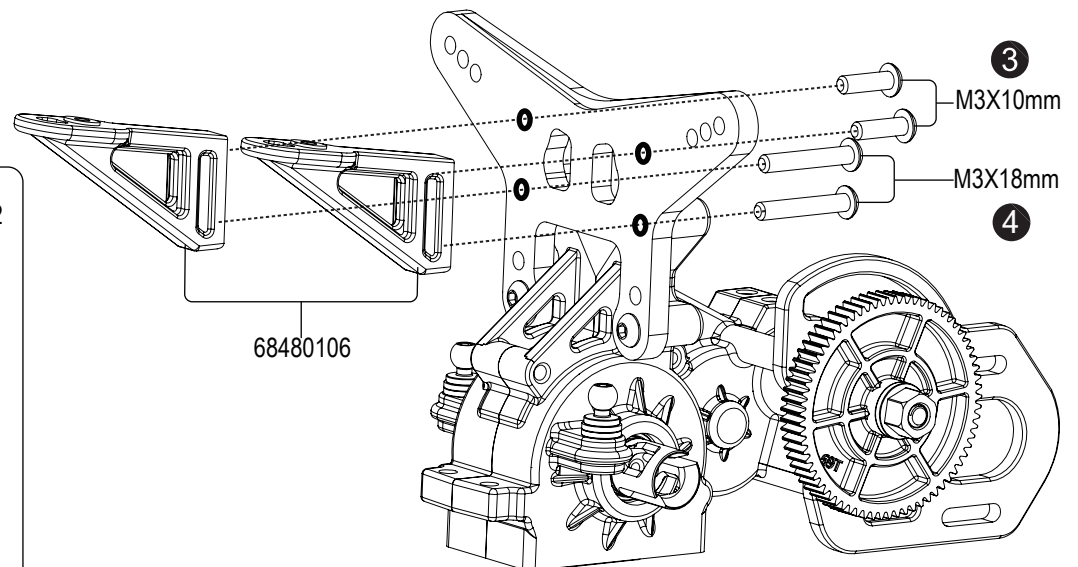
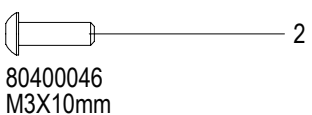
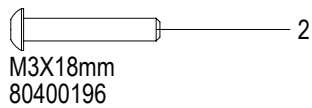
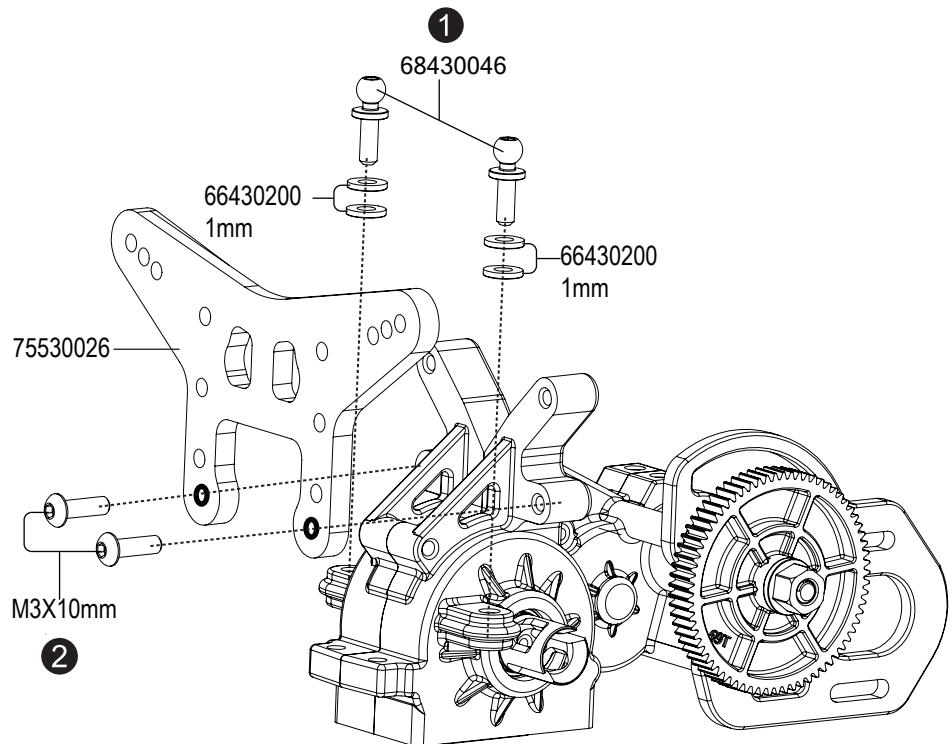
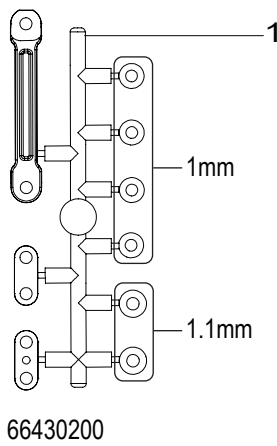




C5-Rear Shock Stay



75530026
Carbon Fiber Rear Shock Tower



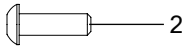
Part Bags used.



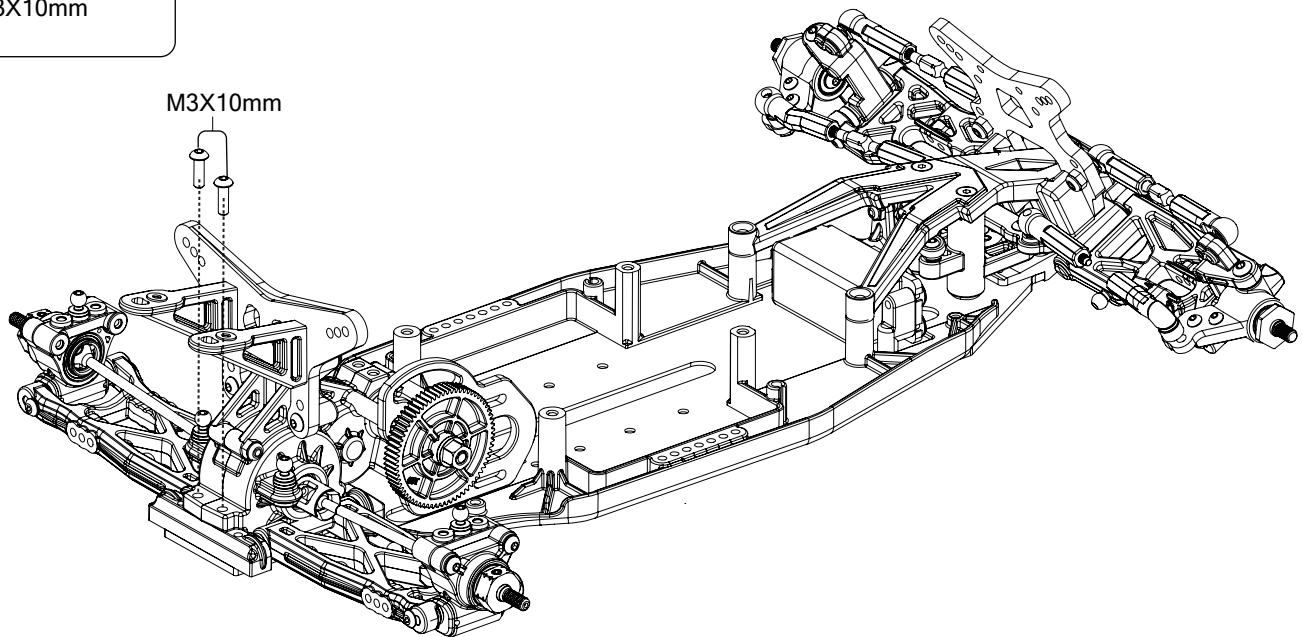
Assemble in the
specified order



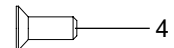
C6-Rear Gear Box



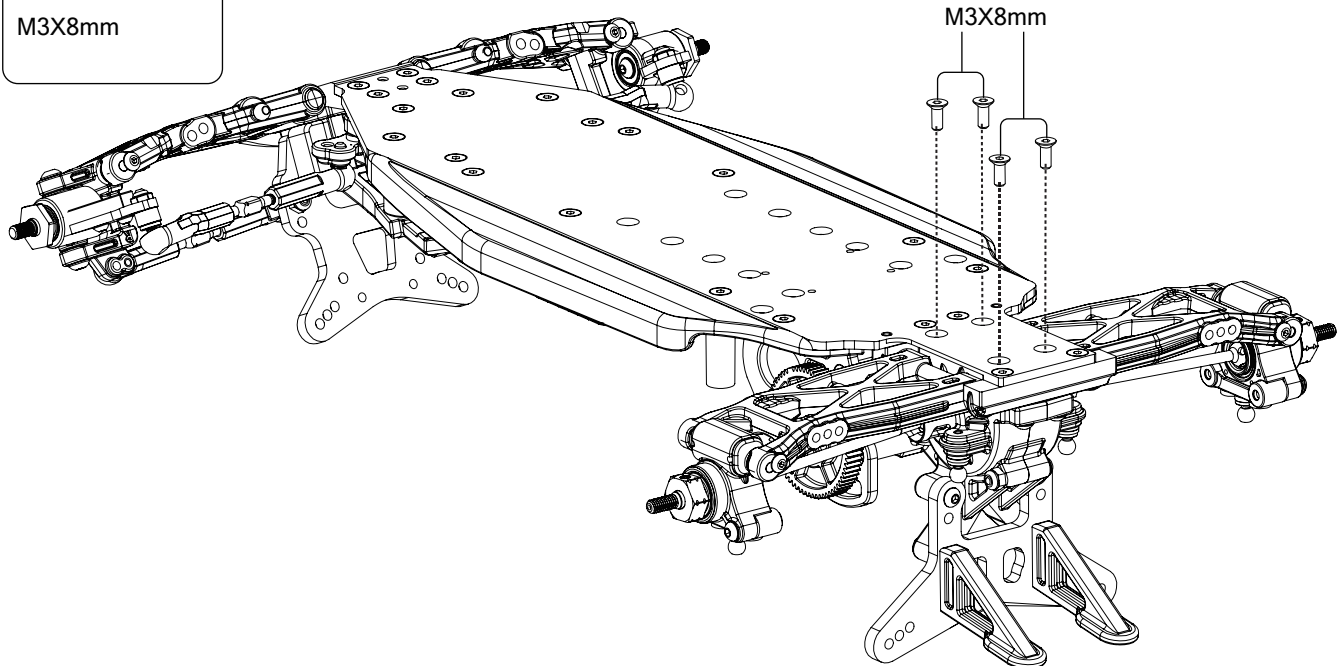
80400046
M3X10mm



C7-Rear Gear Box

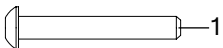


82400026
M3X8mm

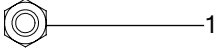




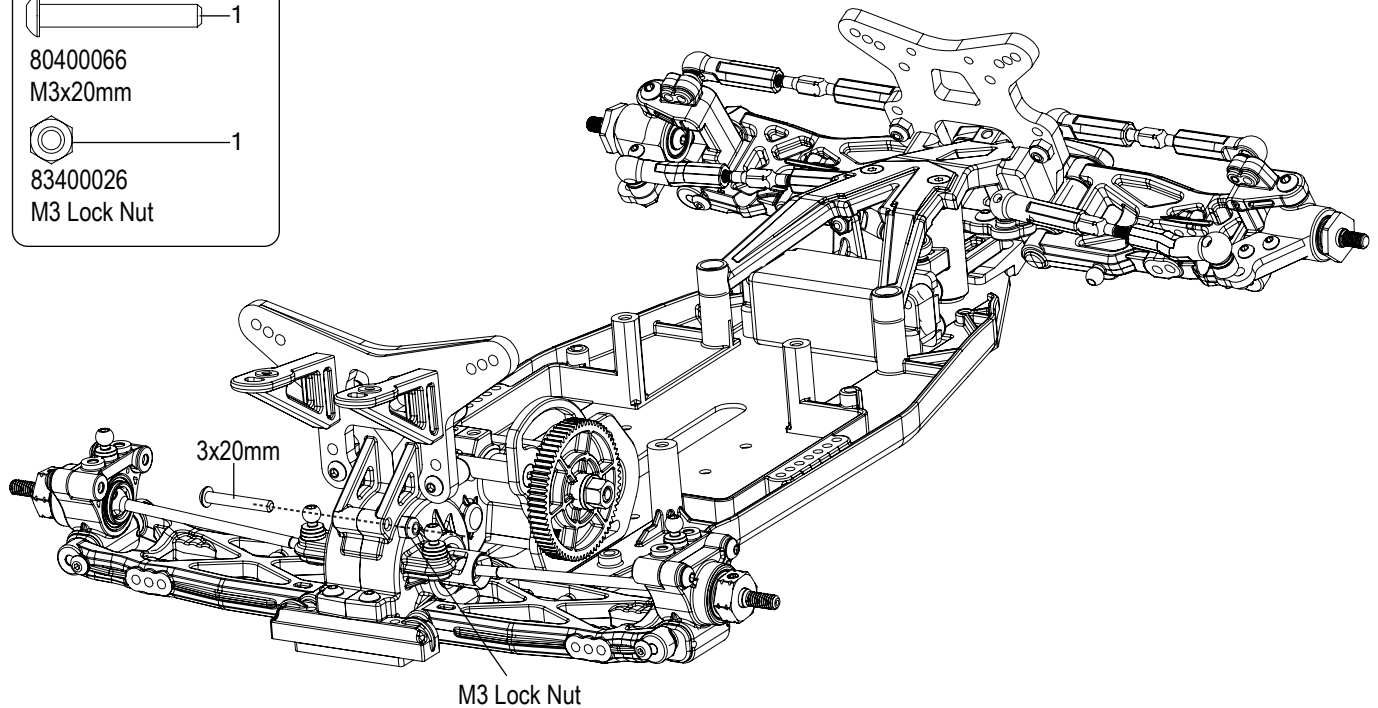
C8- Rear Gear Box



80400066
M3x20mm



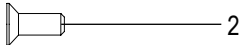
83400026
M3 Lock Nut



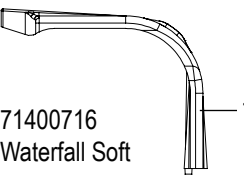
C9-Waterfall Soft



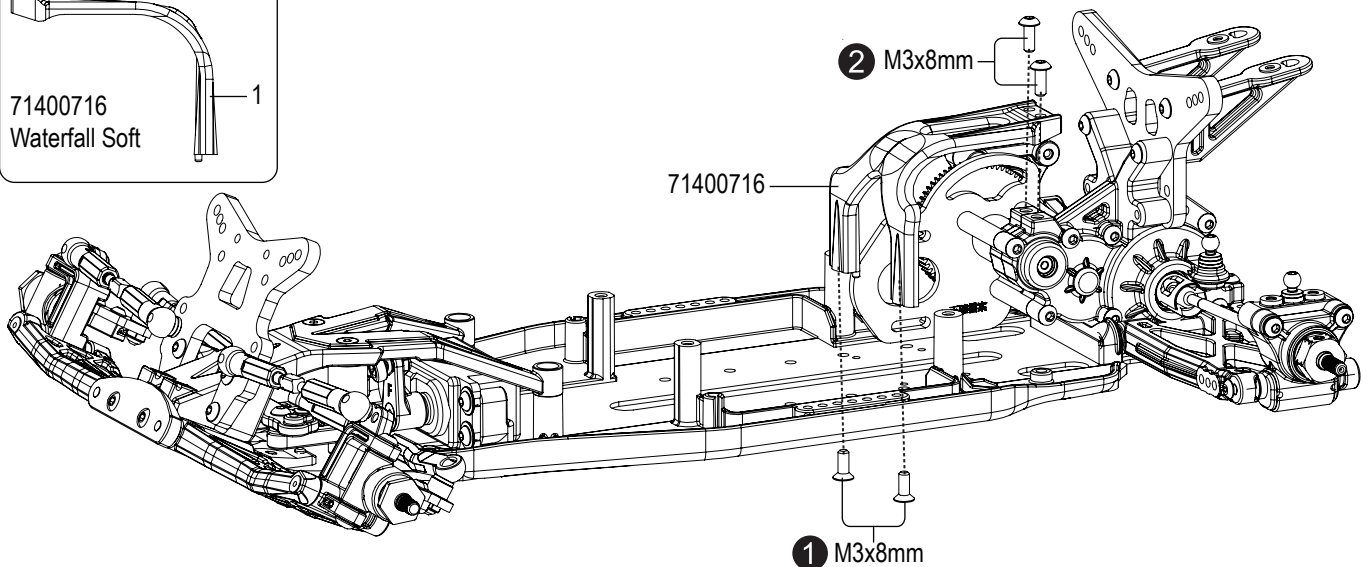
80400036
M3x8mm



82400026
M3x8mm



71400716
Waterfall Soft



Part Bags used. Note the direction.

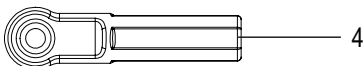
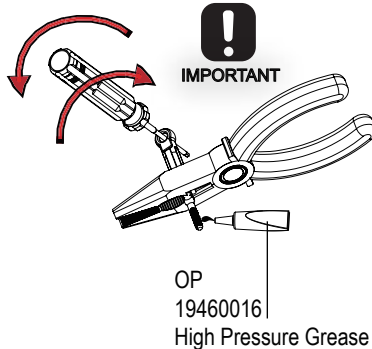


Assemble in the
specified order.

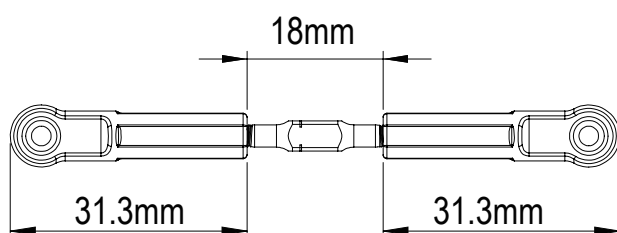
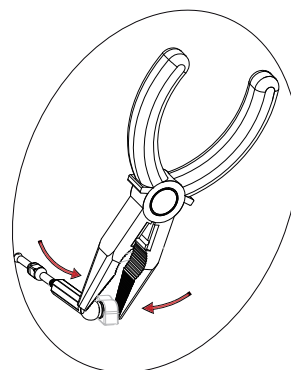
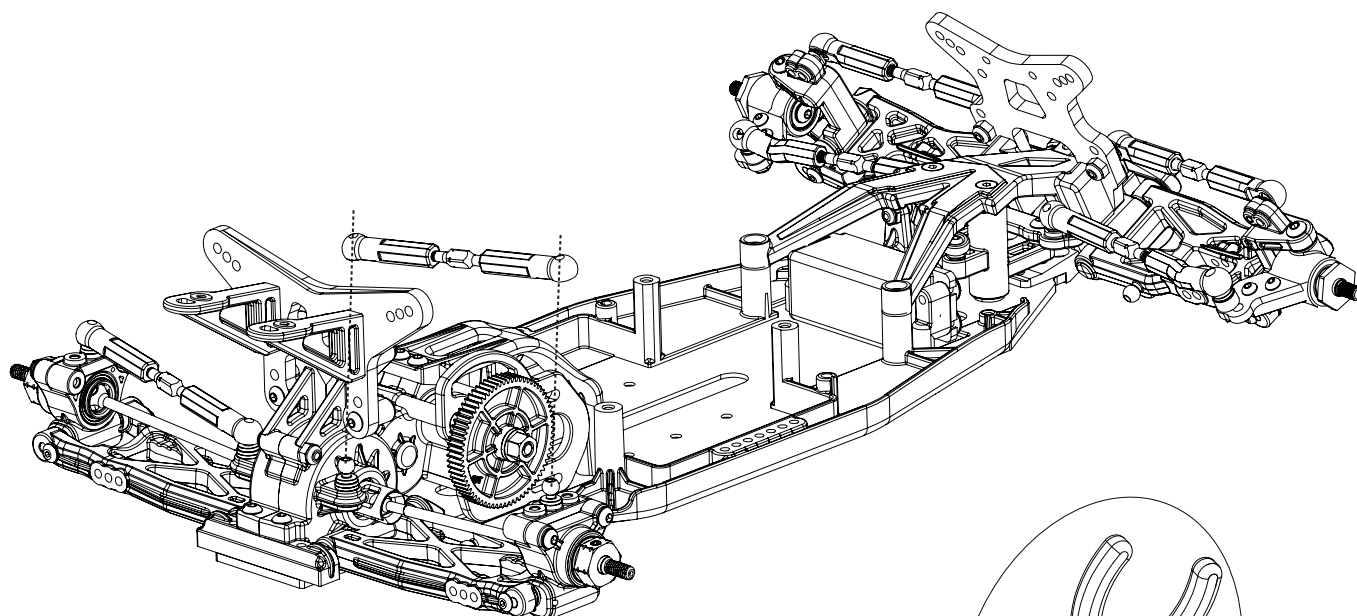
BAG
C

C10-Rear Upper Rod-Turnbuckle Assembly

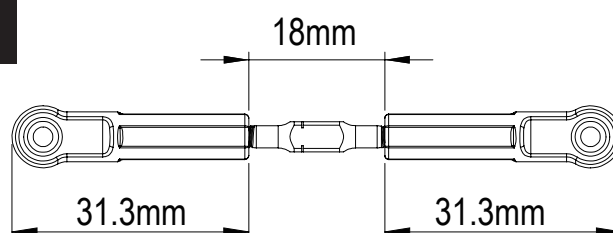
One side is reverse threaded.

66400346
36mm66400066
31.3mm

Thread and unthread the turnbuckle into the plastic rod end a few times to allow easier adjustment after assembly.



1:1





D1.1-Shock Assembly Front Shocks x2 Rear Shocks x2

68410066

1.6X2
1.6X2
0.6mm
0.36mm
0.6mm

1 83400066 M2.5
1.6X2 2.6x6x0.5mm
Front-66400656 42mm
Rear-66400666 49mm

2 31280146 14x1.2mm
Front-17430156 31.8mm
Rear-17430166 39.7mm

3 31430017 O-ring
66430070

Apply threadlocker (screw cement)
Do not over tighten

Front+1.1mm (In C Bag)

66402106-2 18.5mm

4 66400066

5

66402106-2 18.5mm

68410066 0.6mm

5

66402106-2 18.5mm

4 66400066

5

66402106-2 18.5mm

4 66400066

5

66402106-2 18.5mm

4 66400066

5

66402106-2 18.5mm

4 66400066

5

66402106-2 18.5mm

4 66400066



D1.2-Shock Assembly

Clamping place

CORRECT

INCORRECT

INCORRECT

After first drive adjust for track conditions

2

Shock Fluid

Front Shock 400cst
Rear Shock 300cst
Must be purchased separately.

1

Front-22.9mm
Rear-30.3mm

Slowly move up and down to remove air bubbles.

3

4

66430040

80000020 M2.5X4mm

in 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.



D1.3-Shock Spring

Front Shocks

Rear Shocks

Apply oil.

31280136 O-Rings 15x1.2mm

17430167

02530016 Green

66400186

$\phi 19.40$

Apply oil.

31280136 O-Rings 15x1.2mm

17430167

02530056 Green

66400186

$\phi 19.40$



BAG
D

D2- Front Suspension

80400076 M3x25mm 2

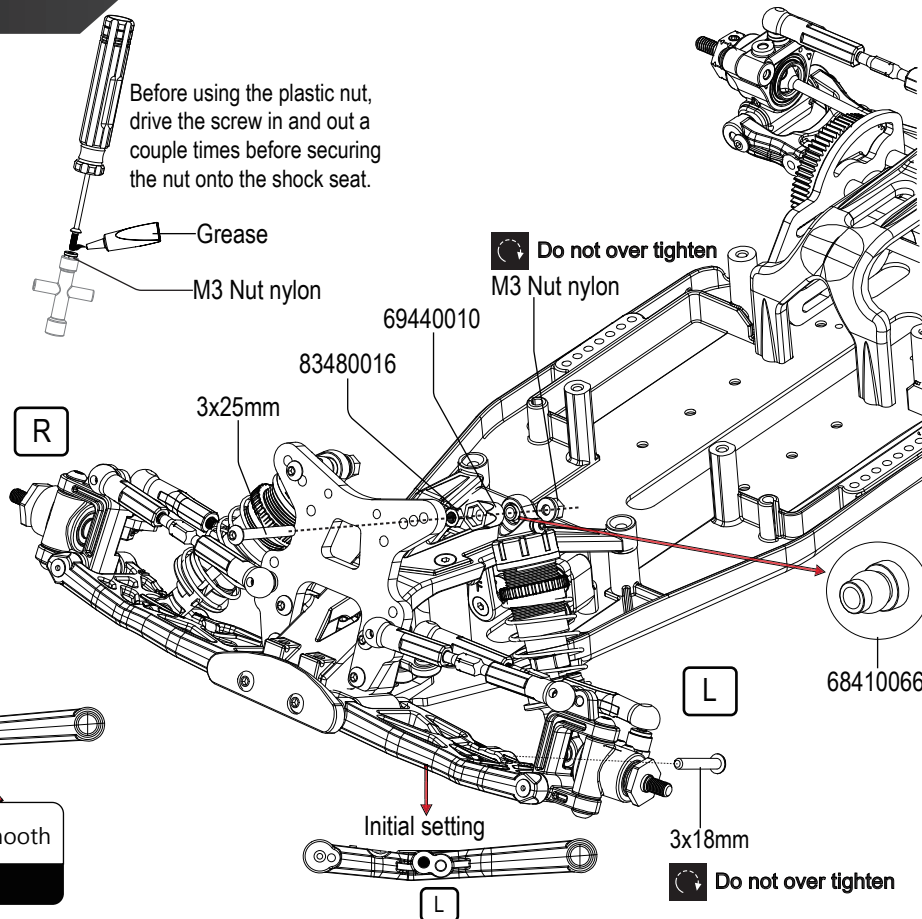
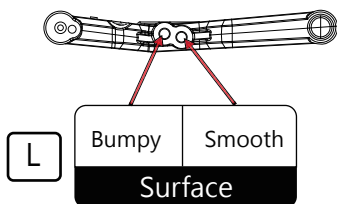
80400196 M3 x18mm 2

68410066 M3 Nut nylon 2

68410066 2

69440010 2

83480016 M3 Nut 2



BAG
D

D3-Rear Suspension

80400076 M3x25mm 2

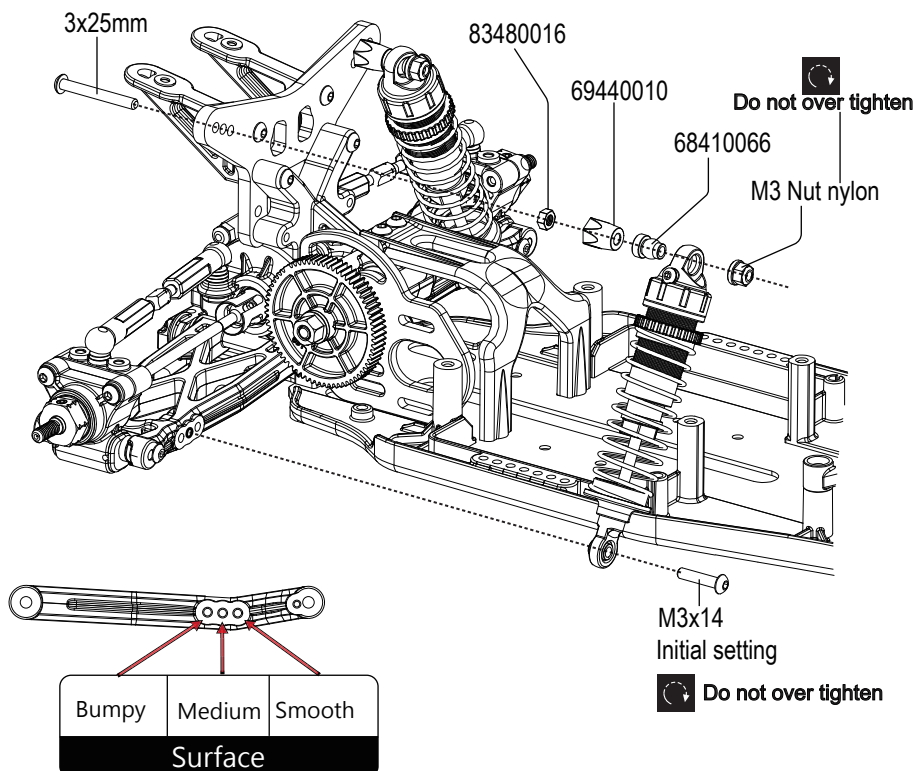
80400056 M3x14mm 2

68410066 M3 Nut nylon 2

68410066 2

69440010 2

83480016 M3 Nut 2

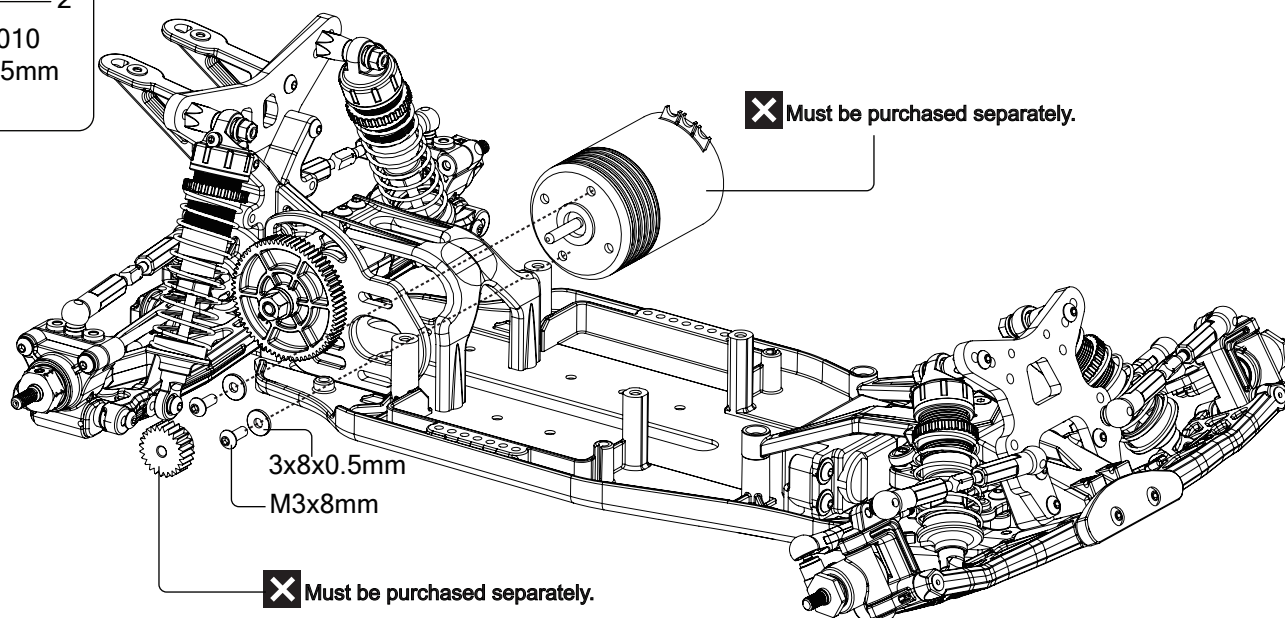




D4- Motor

2
80400036
M3x8mm

2
85000010
3x8x0.5mm
Shim

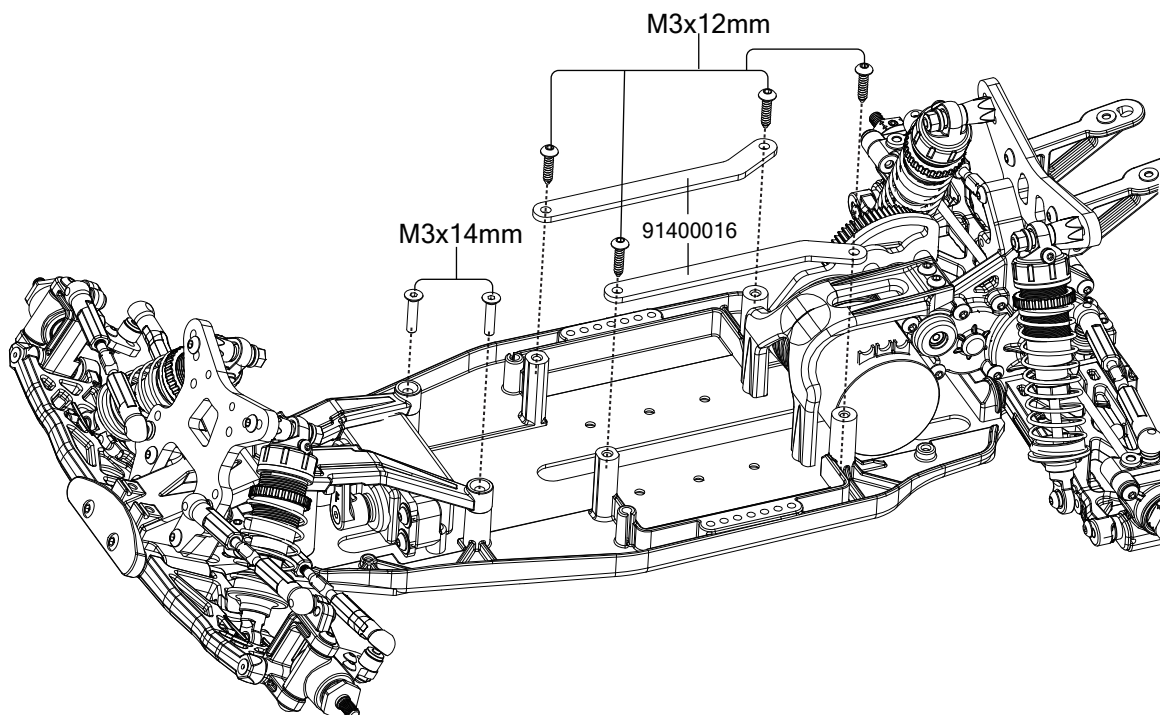


D5-Battery Plate

2
82400046
M3x14mm

4
80400156
M3x12mm

2
91400016
Battery Hold
Down Plate



Part Bags used.



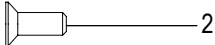
Must be purchased separately.



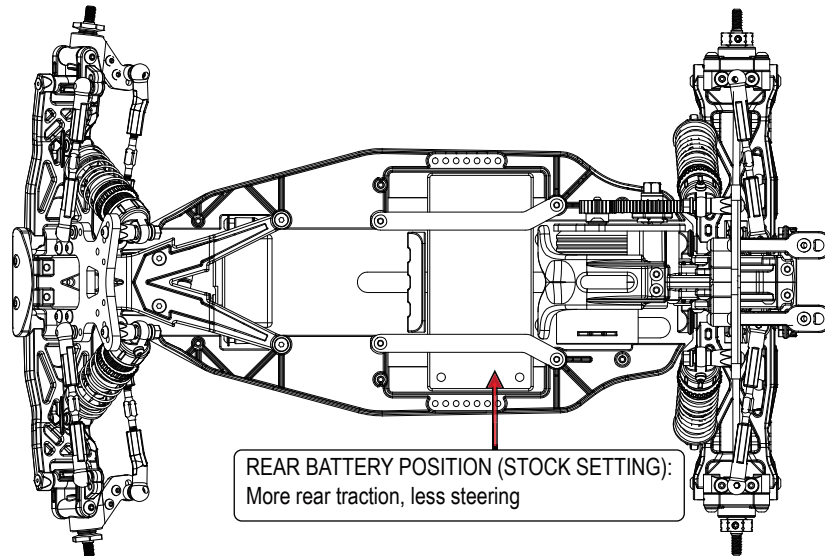
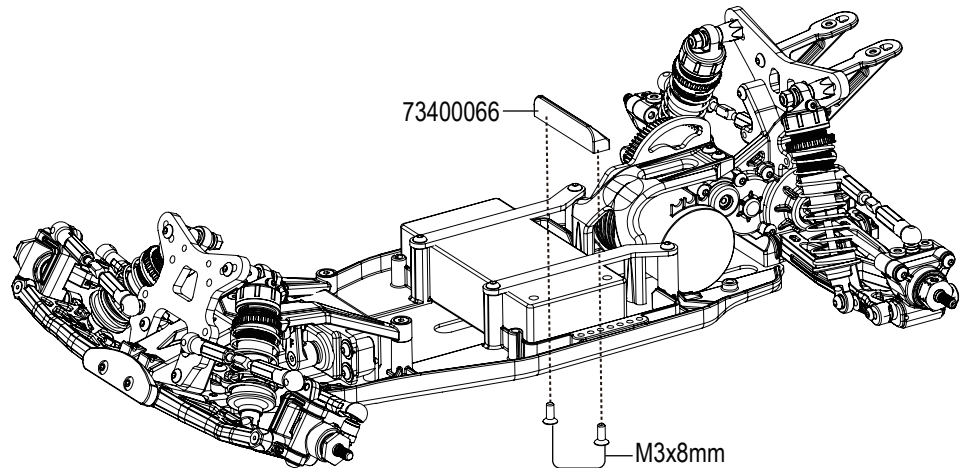
D6-Battery



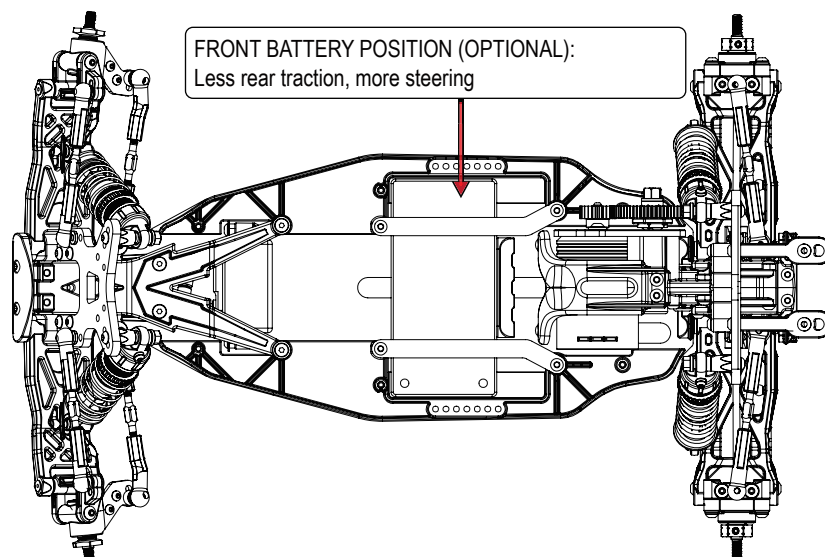
73400066
Battery Clamp



80400046 M3x8mm

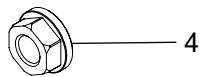


Battery Selection

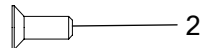




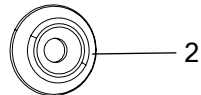
D7-Body



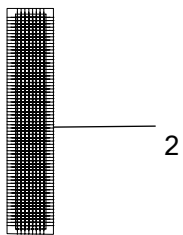
83400076
M4 Lock Nut



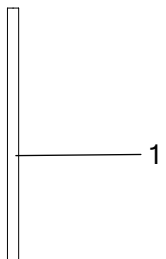
82400026
M3x8mm



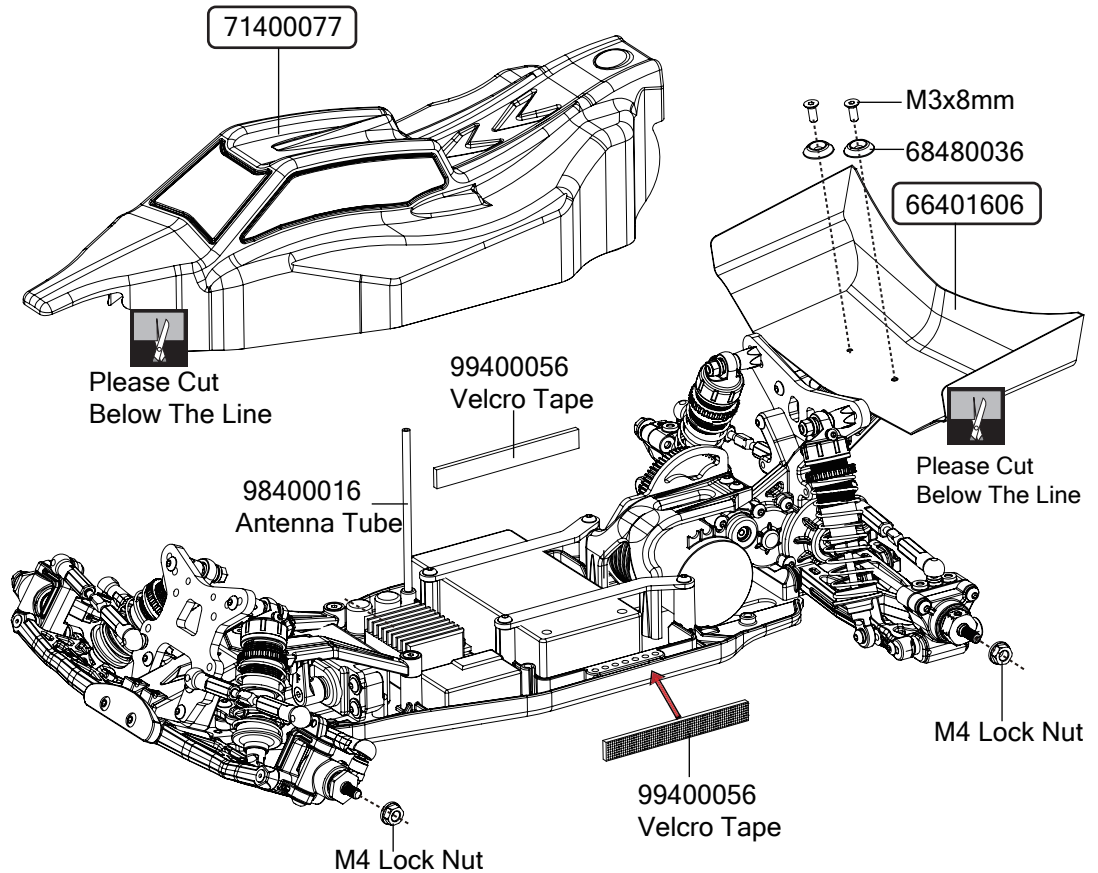
68480036



99400056 Velcro Tape



98400016
Antenna Tube



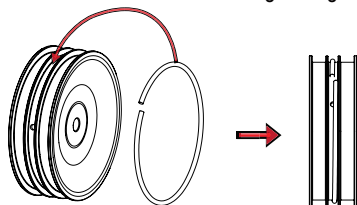
Body and Wing Cutting

Wash the inside of the body with luke warm water and a mild soap or detergent (such as liquid dishwashing soap) prior to painting. Oil residue or dust will prevent the paint from adhering to the painting surface, and possibly cause the paint to peel later on. After washing, thoroughly dry the body to allow the paint to adhere properly.

Tires

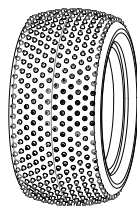
Option Parts

34430018
2WD Front Wheel Counterweight Ring



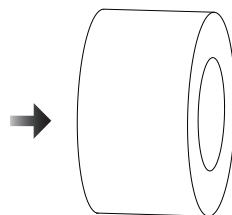
1. Add more weight to the front of the chassis to increase steering response.
2. Increase the rotational inertia of the front wheels for more precise in-air control during jumps.

Option Parts
Mounting Tires

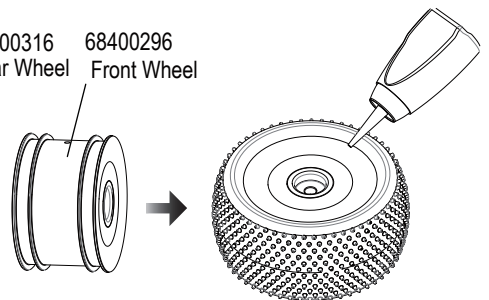


Place the tire insert into the tire and tire onto the wheel.
Tire and insert (Sold separately)
CA(Cyanoacrylate) glue sold separately.

Option Parts
Wheel Installation



68400316 Rear Wheel
68400296 Front Wheel



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

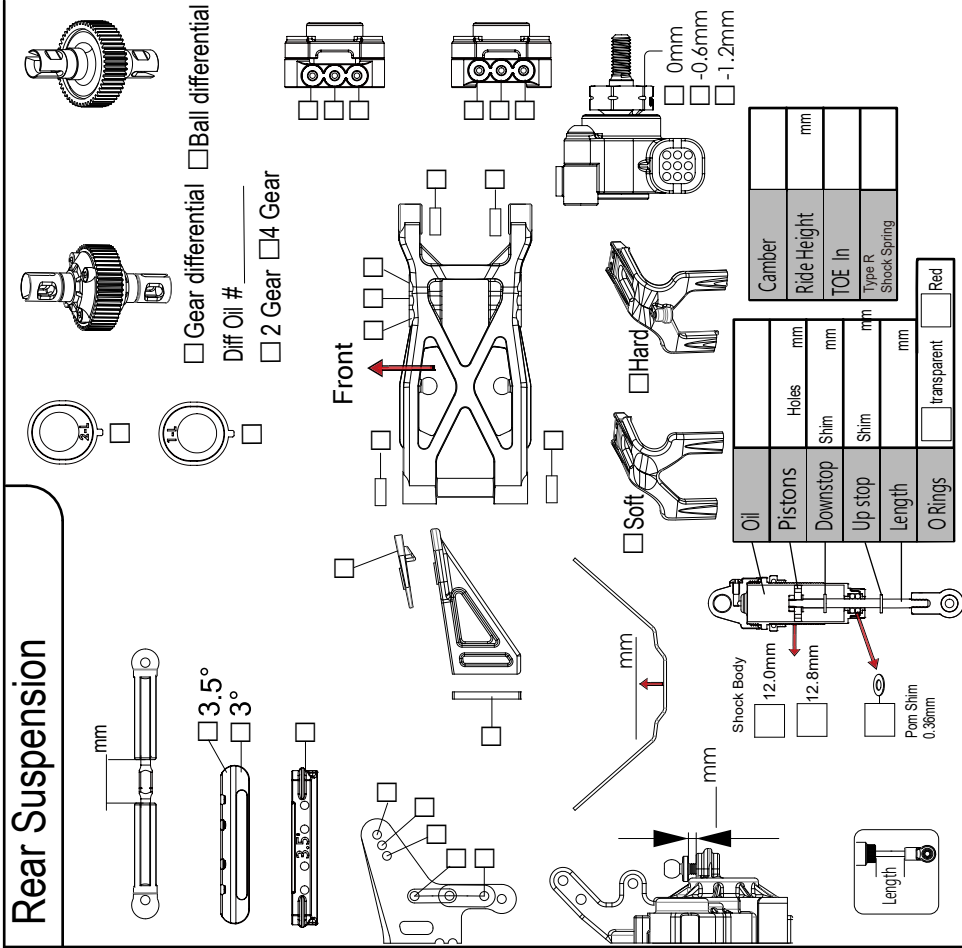


Part Bags used.



Ensure smooth non-binding movement while assembling.

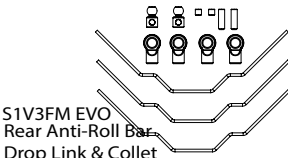
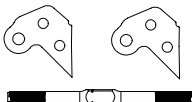
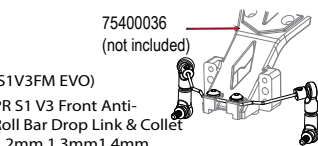
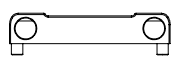
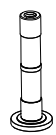
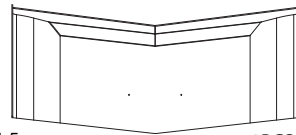
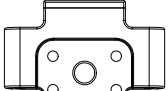
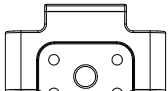
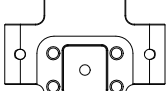
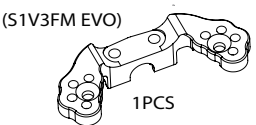
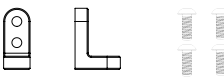
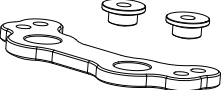
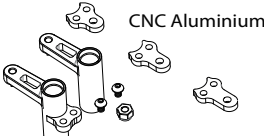
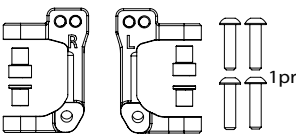
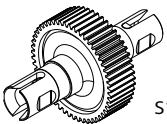
Rear Suspension



TRACK	
Size	☐ Open ☐ Medium ☐ Tight
Traction	☐ Very-Low ☐ Medium ☐ Very-High
Surface	☐ Smooth ☐ Medium ☐ Bumpy
Type	☐ Clay ☐ Carpet ☐ Astro
Condition	☐ Blue Groove ☐ Hard Packed ☐ Dry
	☐ Dusty ☐ Loamy ☐ Wet
	 ☐  ☐  ☐  ☐ Apply CA Glue if needed Cut pins

Body	☐ Standard	☐ Light
Wishbone Rear	☐ High Hardness Graphite	☐ Medium Hardness
Ride Height	F	R
☐ 344330018 2ND Front Wheel Counterweight Ring	Others	
		

Option Parts

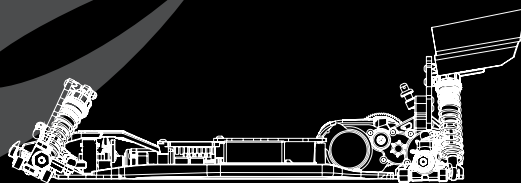
66400376  1PCS (aluminum)	79400026 Type-R  3x29.8mm 2PCS	79400036 Type-R  3x36.8mm 4PCS	79400046 Type-R  3x47.5mm 4PCS
66481236  S1V3FM EVO Rear Anti-Roll Bar Drop Link & Collet	66400756  5x8x2.5 Ball Bearing 6PCS	66481388  50mm Turnbuckles For:Tight Track/Carpet use	66481556  75400036 (not included) (S1V3FM EVO) PR S1 V3 Front Anti- Roll Bar Drop Link & Collet 1.2mm.1.3mm1.4mm
71400236  1PCS (RF) CNC-(aluminum)	71400166  1PCS (RR-3.5) CNC-(aluminum)	71400096  1PCS (RR-3) CNC-(aluminum)	71400406  1PCS (RR-1.5) CNC-(aluminum)
68400016  CNC-(aluminum) 2PCS	66401826  PR Shock Ball (Steel) 4PCS	66402697  1.5 mm 1PCS	55430086  25T CNC-(aluminum) 1PCS
66480456  (+5mm 3)lower swing arm mounts (aluminum)	66481186  (+5mm 7)lower swing arm mounts (aluminum)	66480476  (+5mm 0)lower swing arm mounts (aluminum)	66480536  (+5mm 7)lower swing arm mounts 66g (Brass)
81430106  4PCS front Rear Steel Shock Stand off Set	66481226  (S1V3FM EVO) 1PCS Aluminium Rear Camber Plate	66480936  CNC-(aluminum) 2pcs (M3X8mm) 2pcs	66400696  4PCS Aluminium Shock Stand off Set - Black
66481176  2PCS PR S1 Front Shock Tower Camber Plate	23440360  (aluminum) 1PCS M5.5mm	66480946  Camber Link Brace - Rear S1 V2 and V3FM (1)	66402086  PR Racing 34T Aluminium Idler Gear (1)
66430366  (1) Type R Ackerman board CNC Aluminium-V3	66481256  CNC Aluminium 1Set	91400039  CNC Aluminium 1pr	66402686  S1 Ball Diff Outdrive Set +1.3mm

NOTE

 PR S1(Gear Diff) Gear Ratio Chart-Internal Gear Ratio 2.75:1										
(Gear Diff) Final Drive Ratio		Spur 								
		69	70	71	72	73	75	77	81	83
Pinion 	18								12.38	12.68
	19							11.14	11.72	12.01
	20							10.59	11.14	11.41
	21							10.08	10.61	10.87
	22						9.38	9.63	10.13	10.38
	23						8.97	9.21	9.68	9.92
	24					8.36	8.59	8.82	9.28	9.51
	25				7.92	8.03	8.25	8.47	8.91	
	26			7.51	7.62	7.72	7.93	8.14	8.57	
	27	7.03	7.13	7.23	7.33	7.44	7.64	7.84		
	28	6.78	6.88	6.97	7.07	7.17	7.37	7.56		
	29	6.54	6.64	6.73	6.83	6.92	7.11			
	30	6.33	6.42	6.51	6.60	6.69	6.88			
	31	6.12	6.21	6.30	6.39	6.48				
	32	5.93								
	33									
 PR S1 (Ball Diff) Gear Ratio Chart-Internal Gear Ratio 2.6:1										
(Gear Diff) Final Drive Ratio		Spur 								
		69	70	71	72	73	75	77	81	83
Pinion 	18								11.70	11.99
	19							10.54	11.08	11.36
	20							10.01	10.53	10.79
	21							9.53	10.03	10.28
	22						8.86	9.10	9.57	9.81
	23						8.48	8.70	9.16	9.38
	24					7.91	8.13	8.34	8.78	8.99
	25				7.49	7.59	7.80	8.01	8.42	
	26		7.00	7.10	7.20	7.30	7.50	7.70	8.10	
	27	6.64	6.74	6.84	6.93	7.03	7.22	7.41		
	28	6.41	6.50	6.59	6.69	6.78	6.96	7.15		
	29	6.19	6.28	6.37	6.46	6.54	6.72			
	30	5.98	6.07	6.15	6.24	6.33	6.50			
	31	5.79	5.87	5.95	6.04	6.12				
	32									
	33									

PRSTV3 FM SPORT

1/10 ELECTRIC 2WD RACING PRO KIT



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1.0 Version