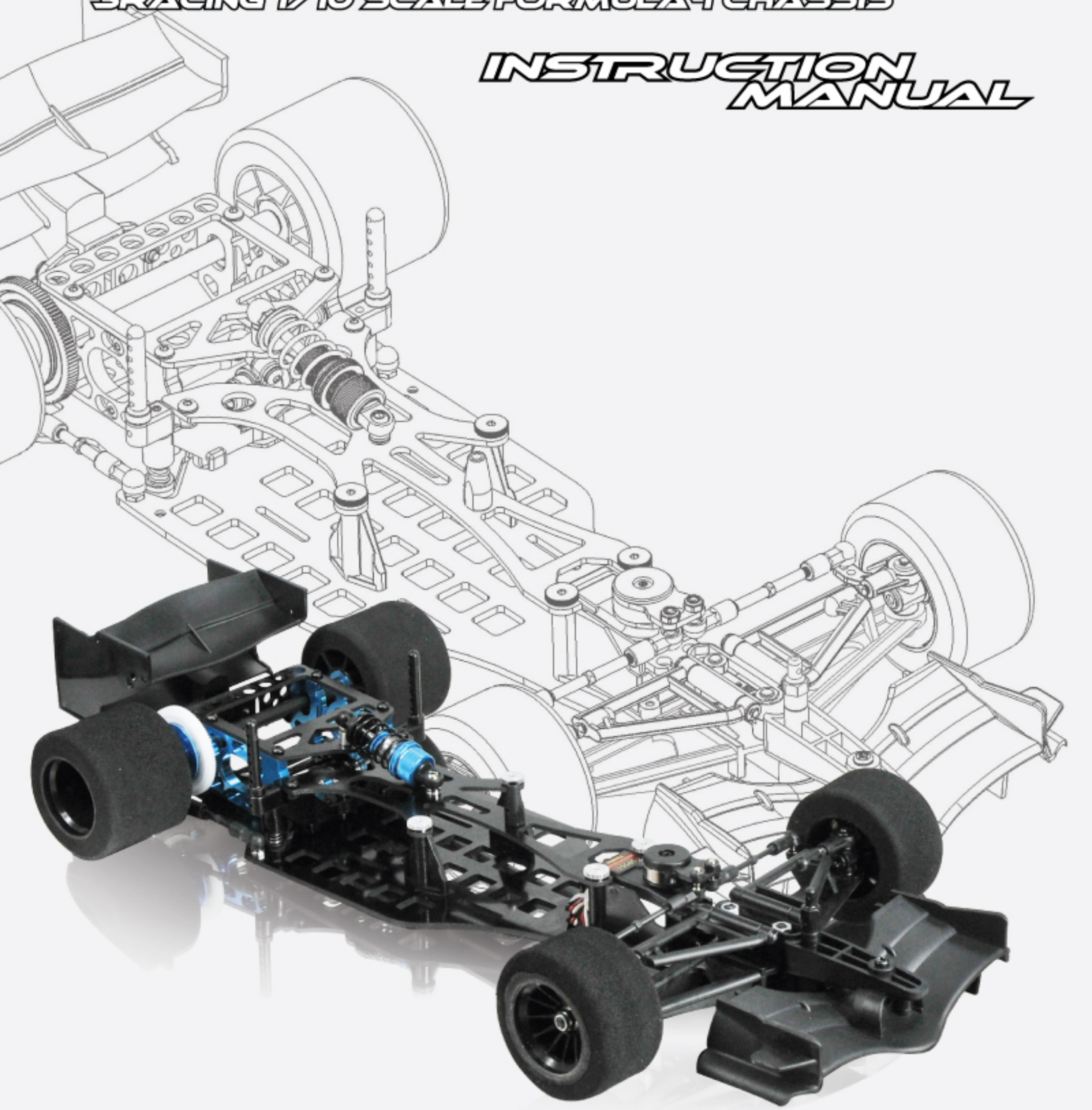
F1-09

3RACING 1/10 SCALE FORMULA-1 CHASSIS

INSTRUCTION MANUAL



3RACING

WWW.3RACING.COM.HK

BEFORE YOU START

Before building and operating your F-109, you must read through all of the operating instructions and instruction manual and fully understand them to get the maximum enjoyment and prevent unnecessary damage. Read carefully and fully understand the instructions before beginning assembly. Make sure you review this entire manual,. We cannot accept your F-109 kit for return or exchange after it has been partially or fully assembled.

CUSTOMER SUPPORT

We have made every effort to make these instructions as easy to understand as possible. However, if you have any difficulties, problems, or questions, please do not hesitate to contact the 3Racing support team at support@3racing.com.hk. Also, please visit our web site at http://www.3racing.hk to find the latest updates, set up information, option parts, and many other goodie. We pride ourselves on taking excellent care of our customers.

SAFETY PRECAUTIONS

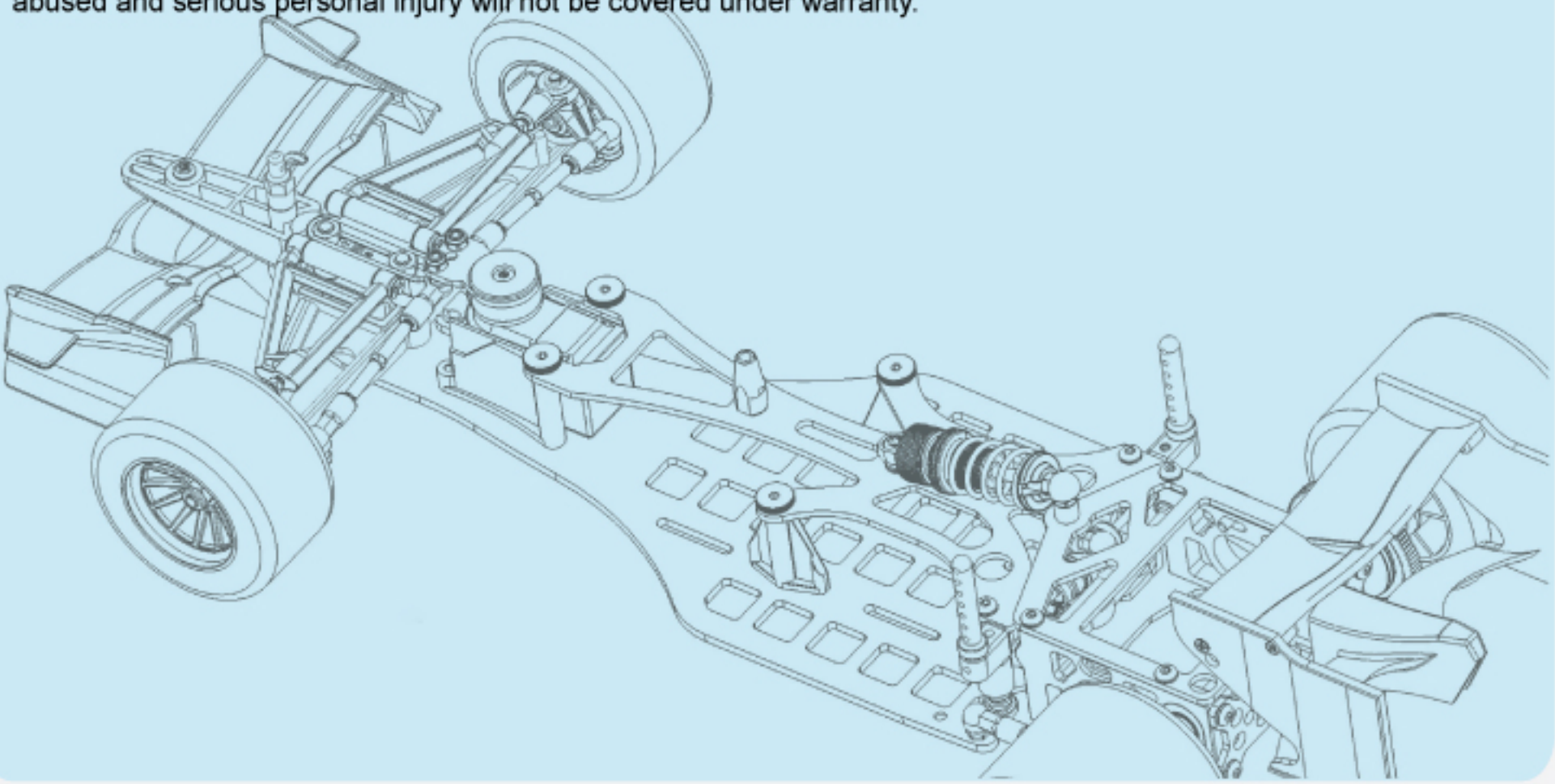
Please read the instruction manual before building and operating this model and follow all safety precautions. For reference reasons, please keep the instruction manual at hand. For provide the maximum performance, we have a full line upgrade parts for our F109. Original authentic 3Racing parts for maximum performance. Using any third party parts on this model will void guaranty immediately. The buyer expressly agrees to indemnify and hold harmless 3Racing for all claims resulting directly or indirectly from the purchase, ownership or use of the product.

IMPORTANT NOTES - GENERAL

- This kit only suitable for adult which a upper 16 years of age.
- Read carefully and fully understand the instructions before commencing assembly.
- When using tools and handle the small parts. Extra care should be taken to avoid personal injury.
- Take care when building, as some parts may have sharp edges.
- Read and follow instructions supplied with paints and / or cement, if used (not included in kit).
- Follow the operating instructions for the radio equipment at all times.
- Keep the wheels of the model off the ground when checking the operation of the radio equipment.
- Please switch off and remove all electronic items before storing your model.
- Please keep cleaning of your model away.
- If the model behaves strangely, immediately stop the model, check and clear the problem.
- To prevent any serious personal injury and /or damage to property, be responsible when operating all remote controlled models.
- Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries. Incorrect charging may cause the batteries to become dangerous. Do not recharge battery while battery is still warm, wait until it cools down before charging.
- Please read the instruction manual before you use.

QUALITY CERTIFICATE

3RACING F1-09 Formula kit is uses only the highest quality materials, its combine with FRP plate, alloy and plastic parts. We guarantee that all parts are manufactured with the highest quality. Product which have been defective, abused and serious personal injury will not be covered under warranty.



3RACING F109 1/10 FORMULA 1 CHASSIS SPECIFICATION

3RACING is one of the most famous RC optional parts manufacturers in the world. We have had over 20 years experience in RC industry that we are extremely familiar with every component of RC car kits. Today, we would like to announce that "It is the revolution of RC World because 3RACING has reached a new level in RC development. Our ALL-NEW F1-09 1/10 Formula 1 Chassis will be born!" Formula One is the highest class of car racing in the world. We are very pleased to introduce our new 1/10 scale F1 kit – F1-09 with all features to you. It is a high quality, durable, best-handling and extremely fast car with very affordable price.

FEATURE:

- Precision cut FRP 2.5mm main chassis and 2.0mm upper desk.
- King pin coil spring independently front suspension.
- Rear suspension uses friction dampers and floating mono shock.
- Aluminum mono shock.
- Aluminum ball differential.
- Full ball bearings.
- Longitudinally placed servo (Isometric steering load applied).
- Lightweight differential joint.
- Height adjustable alloy gear case.
- Rear suspension ball mount.
- Realistic detailed lexan polycarbonate body.
- Front and rear wings.
- ESC, 2-channel R/C system, 7.2V battery and charger separately required.

SPECIFICATION:

Scale	1/10
Steering	Direct steering with servo saver
Suspension	Front king ping coil spring
Shocks	Floating mono damper
Transmission	Direct drive 2WD
Gear Ratio	98/23
Length	435mm
Width	200mm
Height	101mm
Wheelbase	275mm
Tread (F)	155mm
Tread (R)	135mm
Tire Width	F 30mm; R 45mm
Tire Size	F 57mm; R 57mm
Overall Weight	610g
Shell Weight	42g
Net Weight	568g

TOOL REQUIRED:



PHILLIPS WRENCH
- 3.0mm
HEX WRENCH
-1.5MM -2.5MM
-2.0MM -3.0MM



WIRE CUTTER



SCISSORS



PLIERS



BODY REAMER
(#Body Reamer

TOOLS AND REQUEST INCLUDED:



DG1
DIFF. GREASE



DG2
DIFF. GREASE



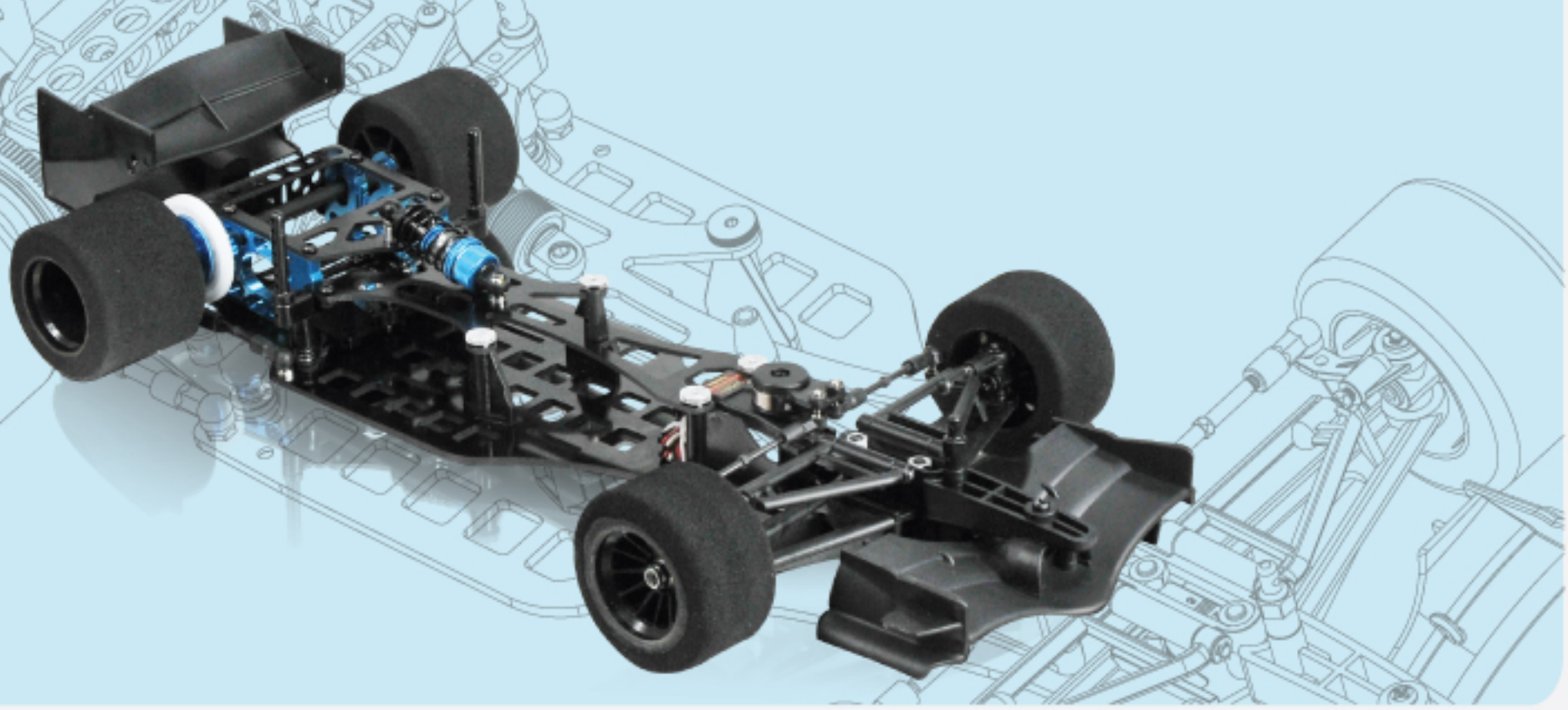
SO1
SILICON OIL
For main damper



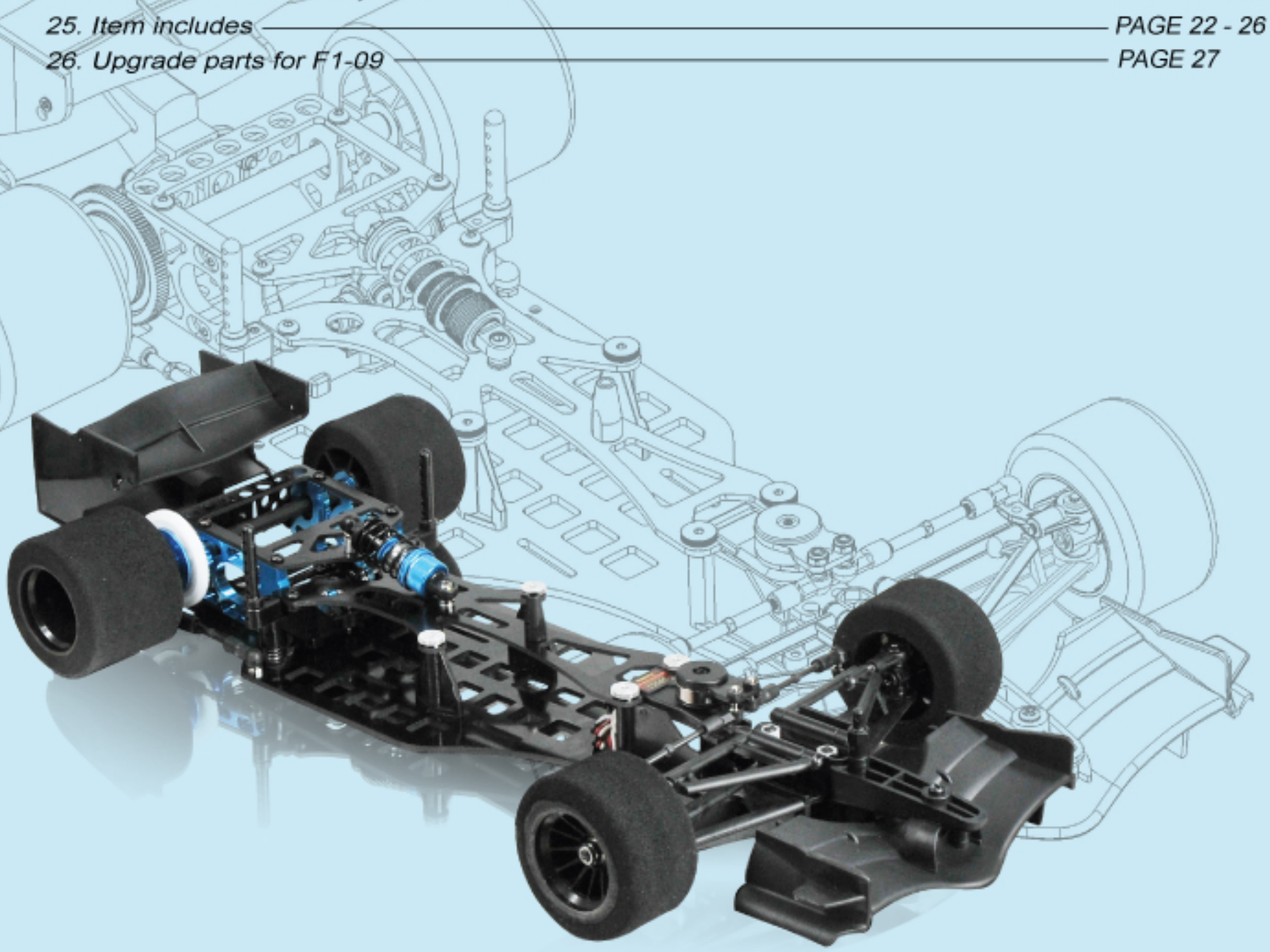
SO2
SILICON OIL
For rolling damper



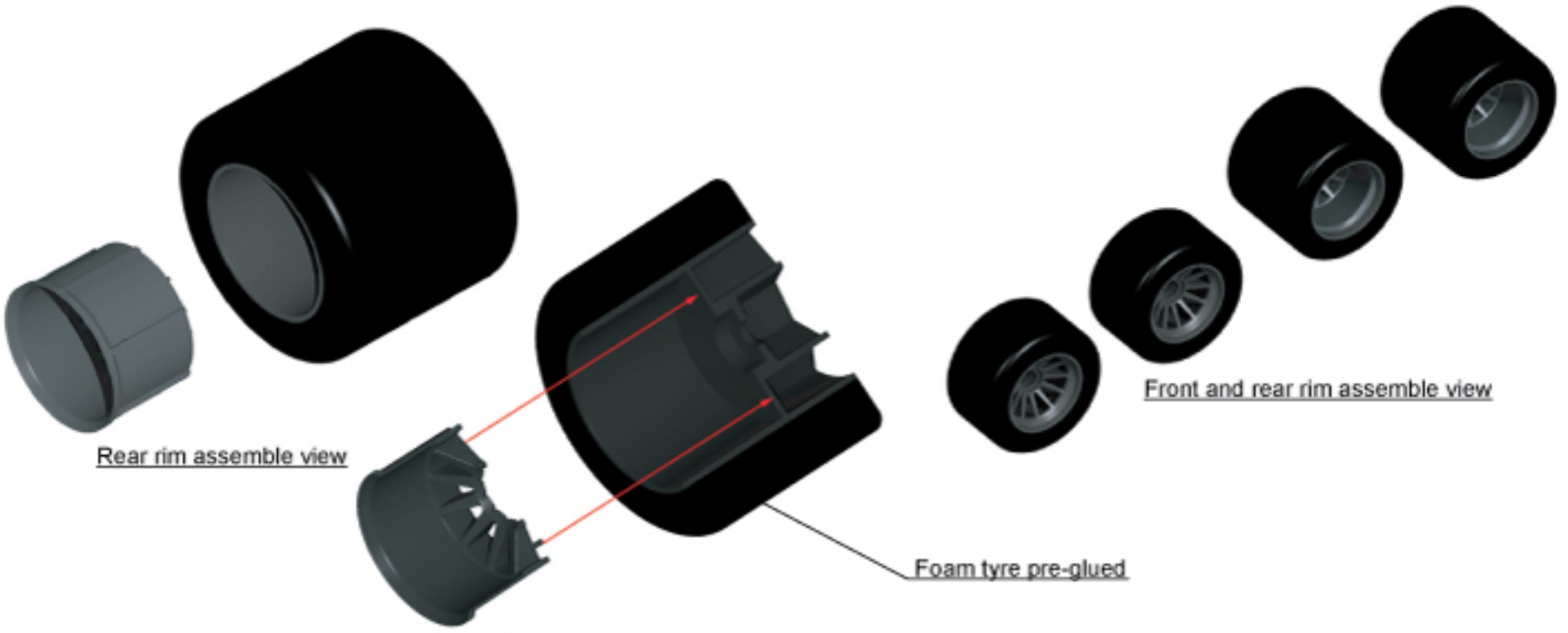
TURNBUCKLE TOOL



1. Front and rear rim set ——— PAGE 1
2. Ball differential ——— PAGE 1 - 2
3. Motor mount installation ——— PAGE 2 - 3
4. Join with motor mount and ball differential installation ——— PAGE 4
5. Front suspension ——— PAGE 4 - 5
6. Rolling damper body ——— PAGE 5 - 6
7. Main damper body ——— PAGE 7 - 8
8. Center ball mount ——— PAGE 8 - 9
9. Servo saver assembly ——— PAGE 9
10. Assemble with standard servo ——— PAGE 10
11. Assemble with low profile servo ——— PAGE 10 - 11
12. Assemble with main chassis ——— PAGE 11
13. Assemble with servo and main chassis ——— PAGE 12
14. Assemble with front wing set ——— PAGE 12
15. Assemble with rear wing mount ——— PAGE 13
16. Assemble with motor mount and rear wing set ——— PAGE 13
17. Assemble with main chassis and front suspension ——— PAGE 14
18. Assemble with center mount and main chassis ——— PAGE 14
19. Assemble with center mount and rolling damper ——— PAGE 14
20. Assemble with upper deck ——— PAGE 15
21. Assemble with front tyre ——— PAGE 15
22. Assemble with steering and motor turnbuckle ——— PAGE 16
23. Assemble with lexan car body ——— PAGE 17 - 18
24. Assemble with radio system ——— PAGE 19 - 21
25. Item includes ——— PAGE 22 - 26
26. Upgrade parts for F1-09 ——— PAGE 27



1. FRONT AND REAR RIM SET



BAG PA

2. BALL DIFFERENTIAL



M27 Differential spacer X 2pcs -BAG 1



M8 x 9.5 x 4 Gear ring - BAG PC6

1/8" Steel ball X 8pcs - BAG 1

M3 x 3 Set screw - BAG MA



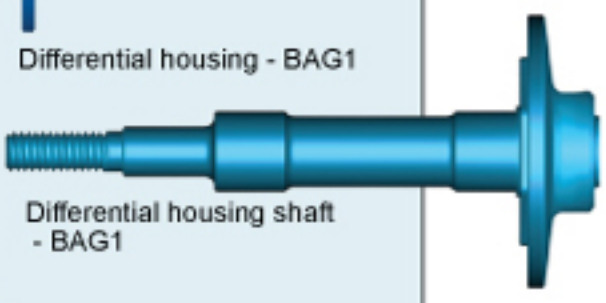
M8 x 12 x 3.5 Ball bearing X 2pcs - BAG MD



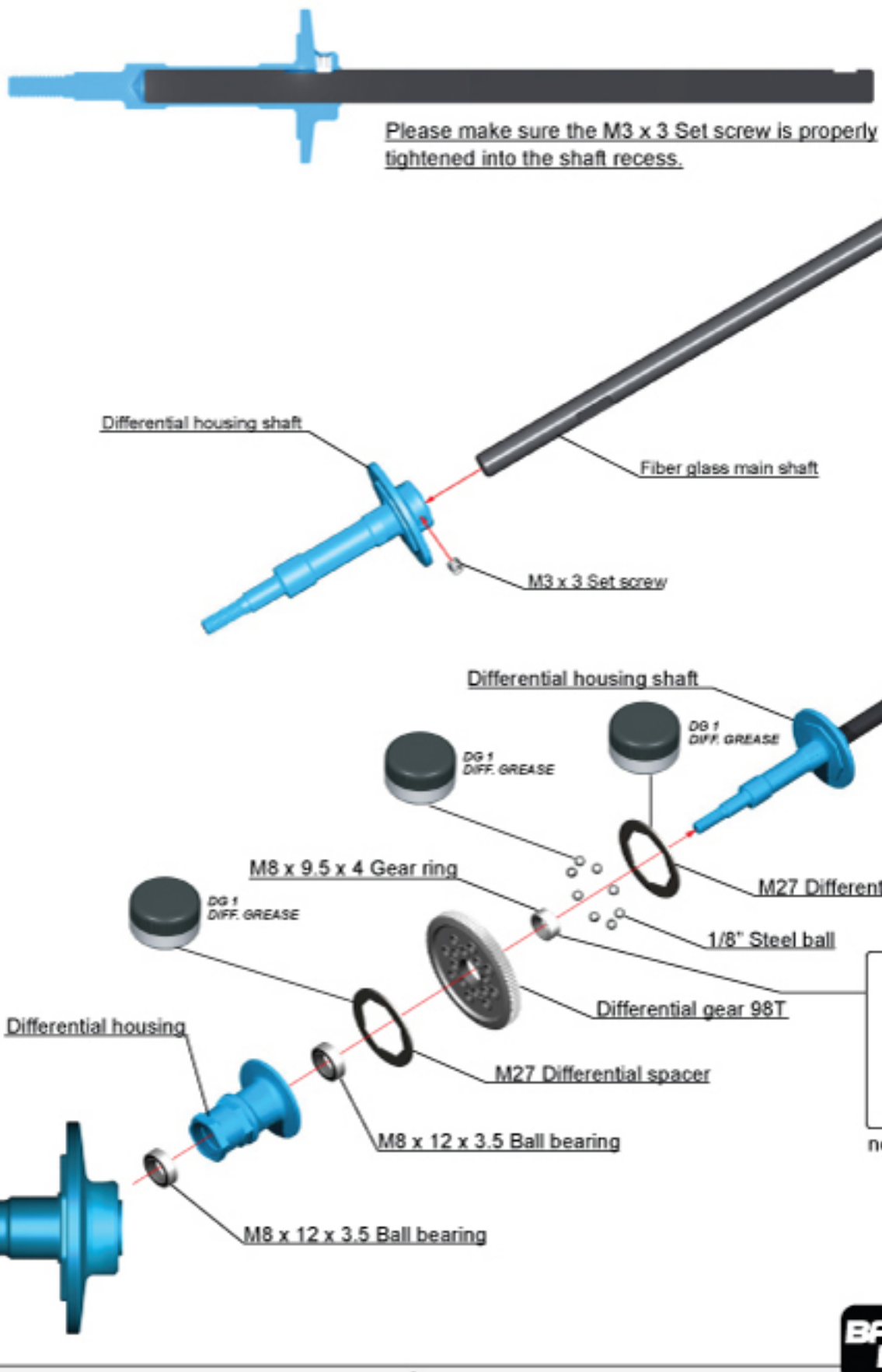
Differential gear 98T - BAG 1



Differential housing - BAG1



Differential housing shaft - BAG1



BAG 1 BAG MA BAG PC BAG MD

2. BALL DIFFERENTIAL

F1-09



M11 Differential spacer spring - BAG 1



Ball thrust bearing - BAG 1



Thrust washer X 2pcs - BAG 1



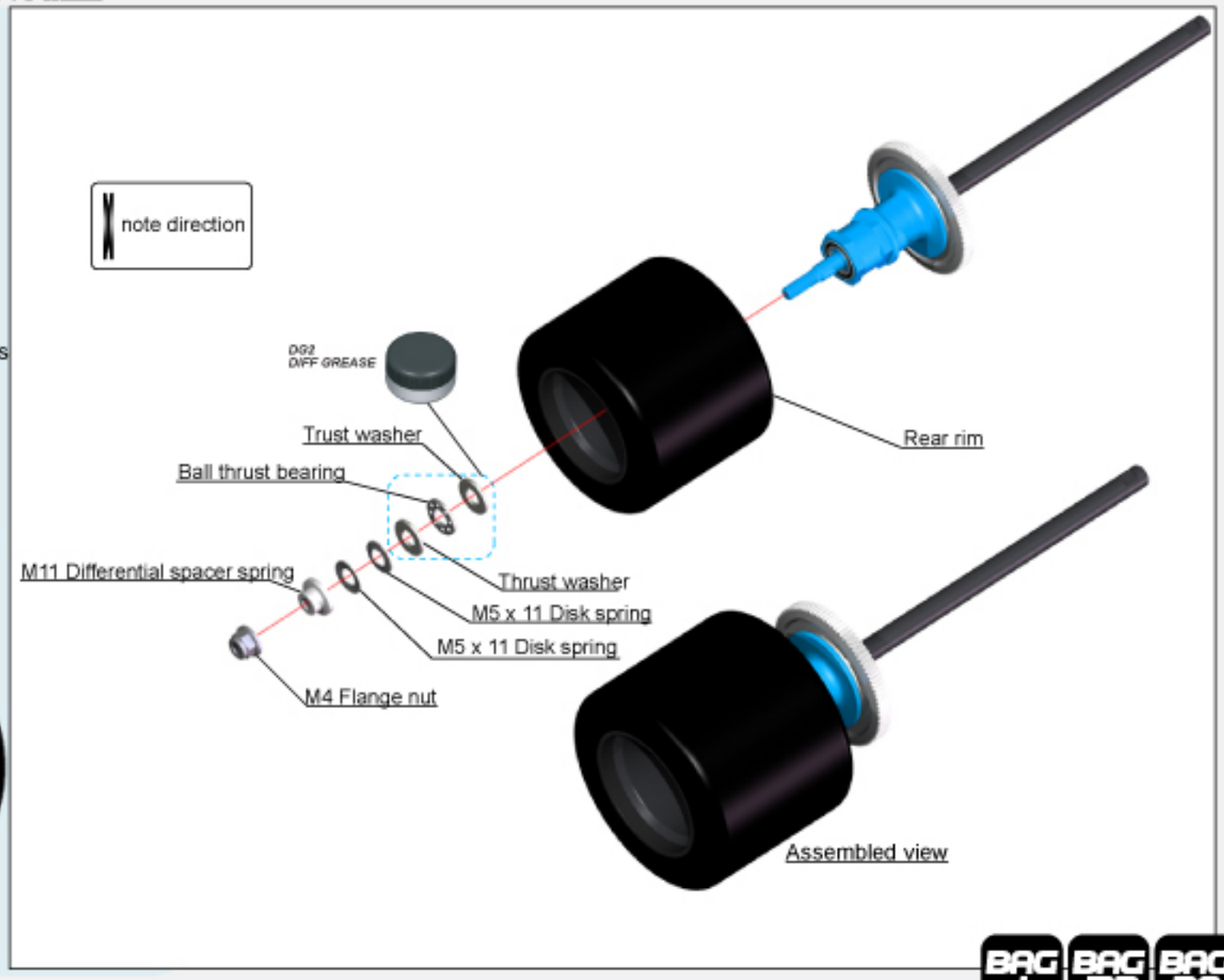
M4 Flange nut - BAG MB



M5 x 11 Disk spring X 2pcs - BAG 1



Rear rim - BAG PA



BAG 1 BAG MB BAG PA

3. MOTOR MOUNT INSTALLATION:



M3 x 6 x 6 Aluminium post - BAG MD



Bottom spring holder X 2pcs - BAG PC7



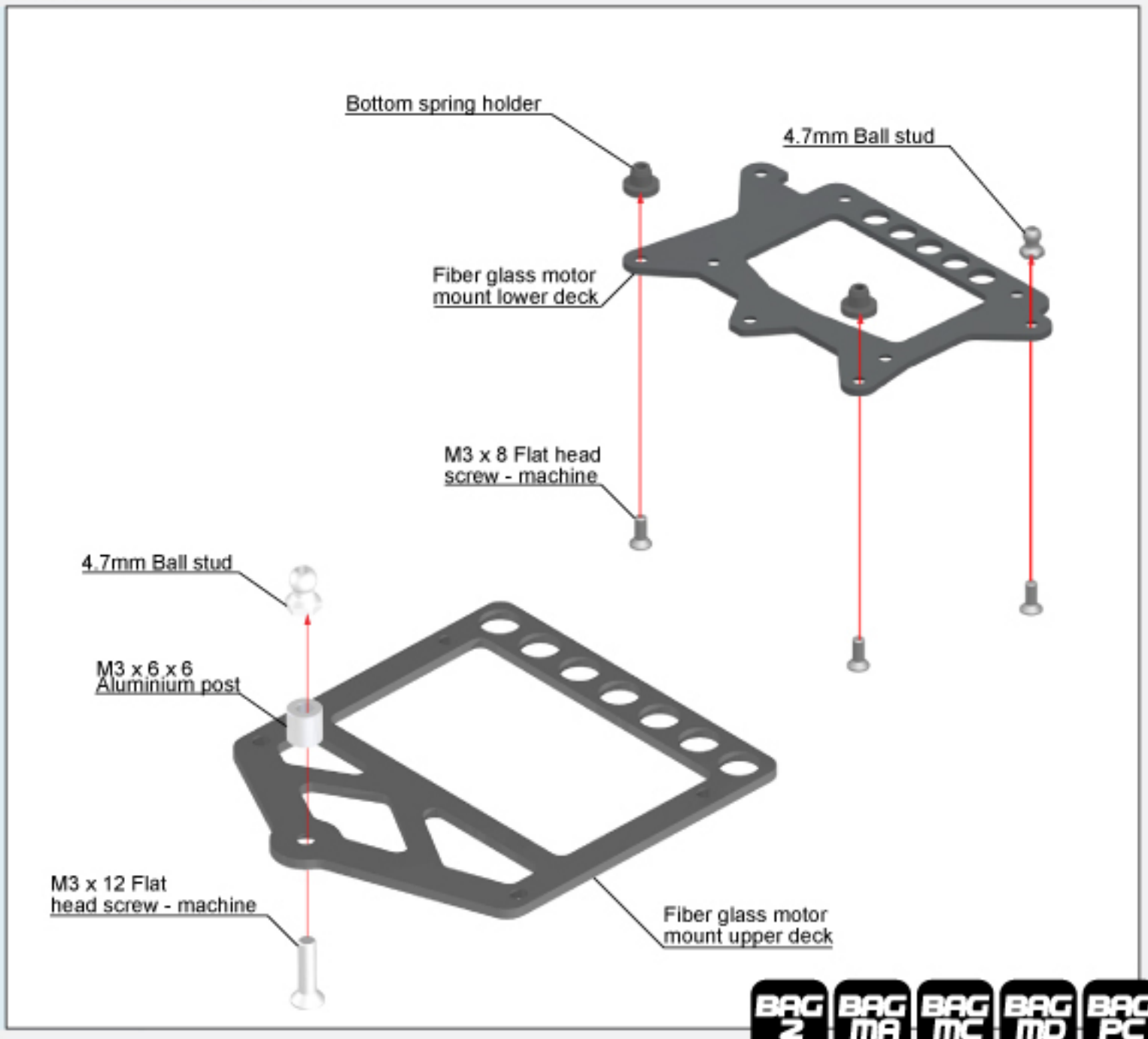
M3 x 8 Flat head screw - machine X 3pcs - BAG MA



M3 x 12 Flat head screw - machine - BAG MA



4.7mm Ball stud X 2pcs - BAG MC



BAG 2 BAG MA BAG MC BAG MD BAG PC

3. MOTOR MOUNT INSTALLATION:



Rolling shaft - BAG2



M4 x 8 x 3 Ball bearing x 2pcs - BAG MD



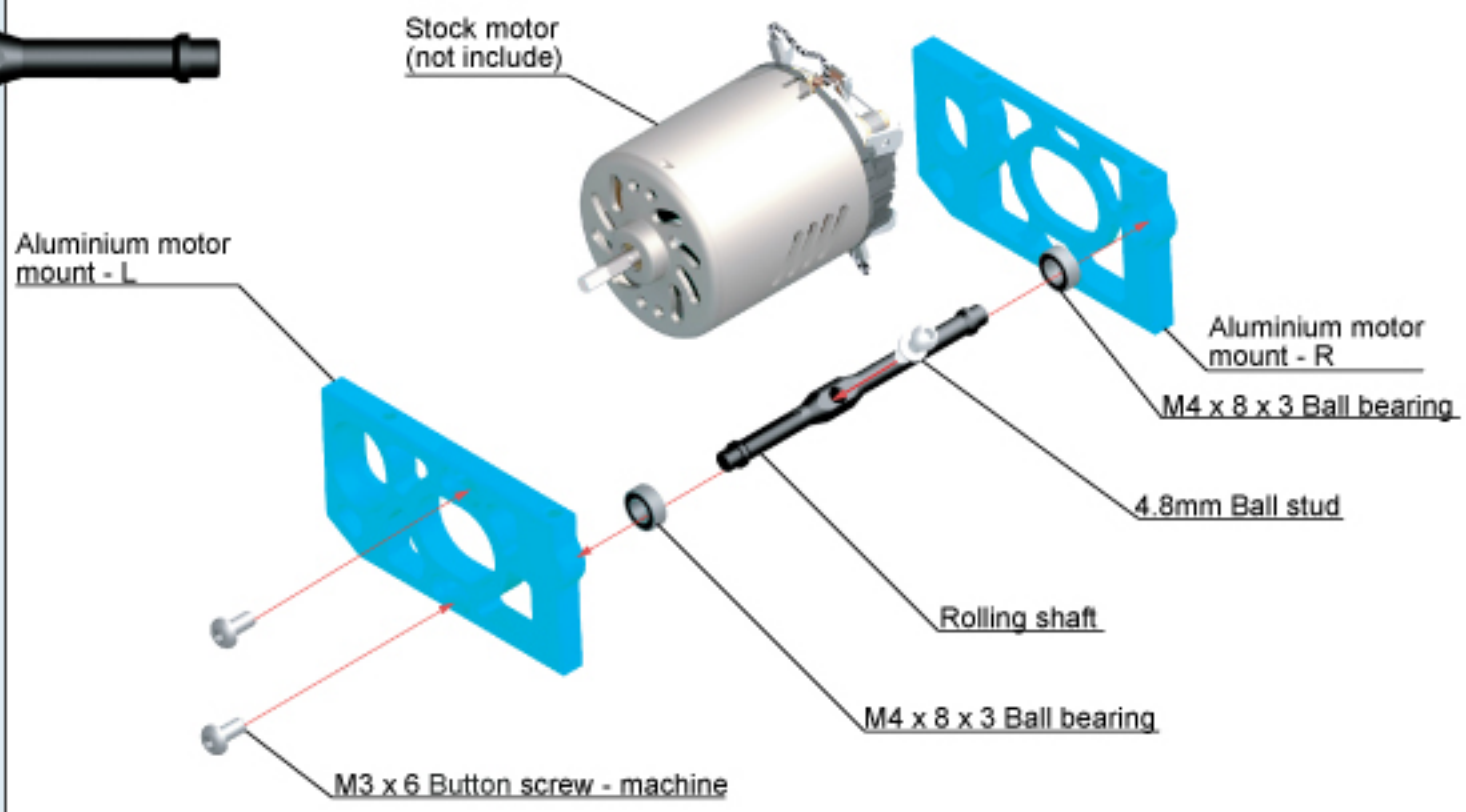
M3 x 6 Button screw - machine X 2pcs - BAG MA

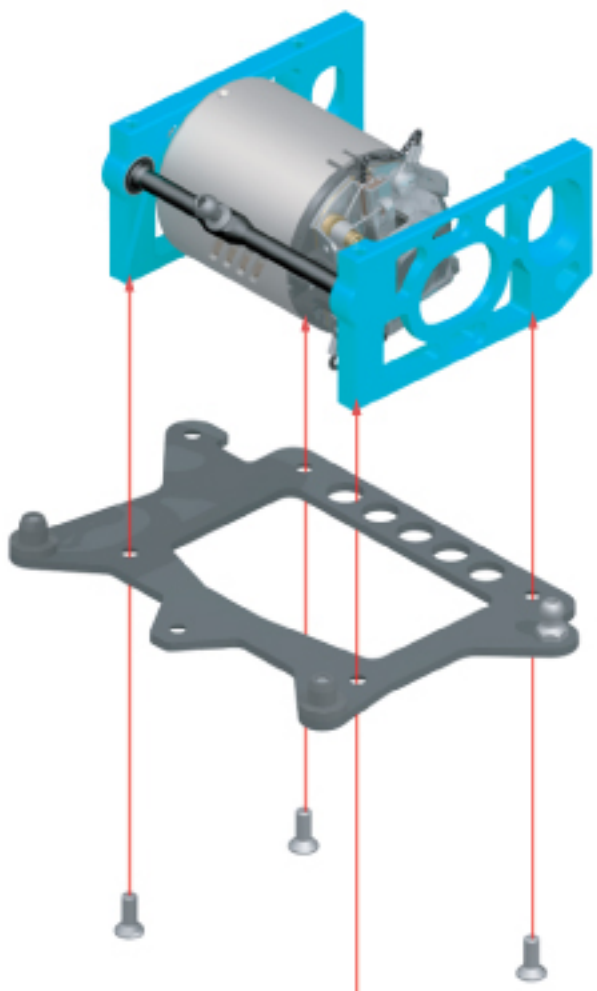


M3 x 8 Flat head screw - machine X 4pcs - BAG MA



4.8mm Ball stud - BAG MC







Assemble view

4. JOIN WITH MOTOR MOUNT AND BALL DIFFERENTIAL INSTALLATION:



Axle up and down spacer X 6pcs - BAG PC10 - 12



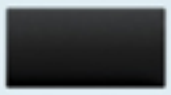
M4 Flange nut - BAG MB



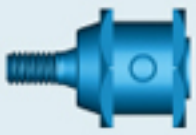
M6 x 10 x 3 Ball bearing X 2pcs - BAG MD



M3 x 3 Set screw - BAG MA



Axle tube - BAG PC5



Wheel hub - BAG 1



Rear rim - BAG PA

You may use the same offsets adaptor on the left and right sides, but make sure the shaft are horizontally.



A0: 0mm offset
A1: 1mm offset
A2: 2mm offset

BAG I | BAG MB | BAG MA | BAG MD | BAG PA | BAG PC

5. FRONT SUSPENSION:



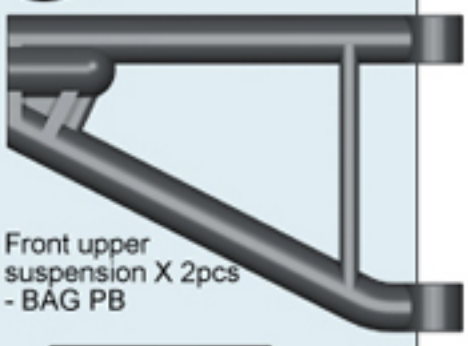
4.8mm Ball stud X 2pcs - BAG MC



Knuckle arms shaft X 2pcs - BAG PB



Front suspension ball end x 2pcs - BAG PB



Front upper suspension X 2pcs - BAG PB



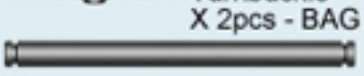
Front upper castor mount - BAG PB



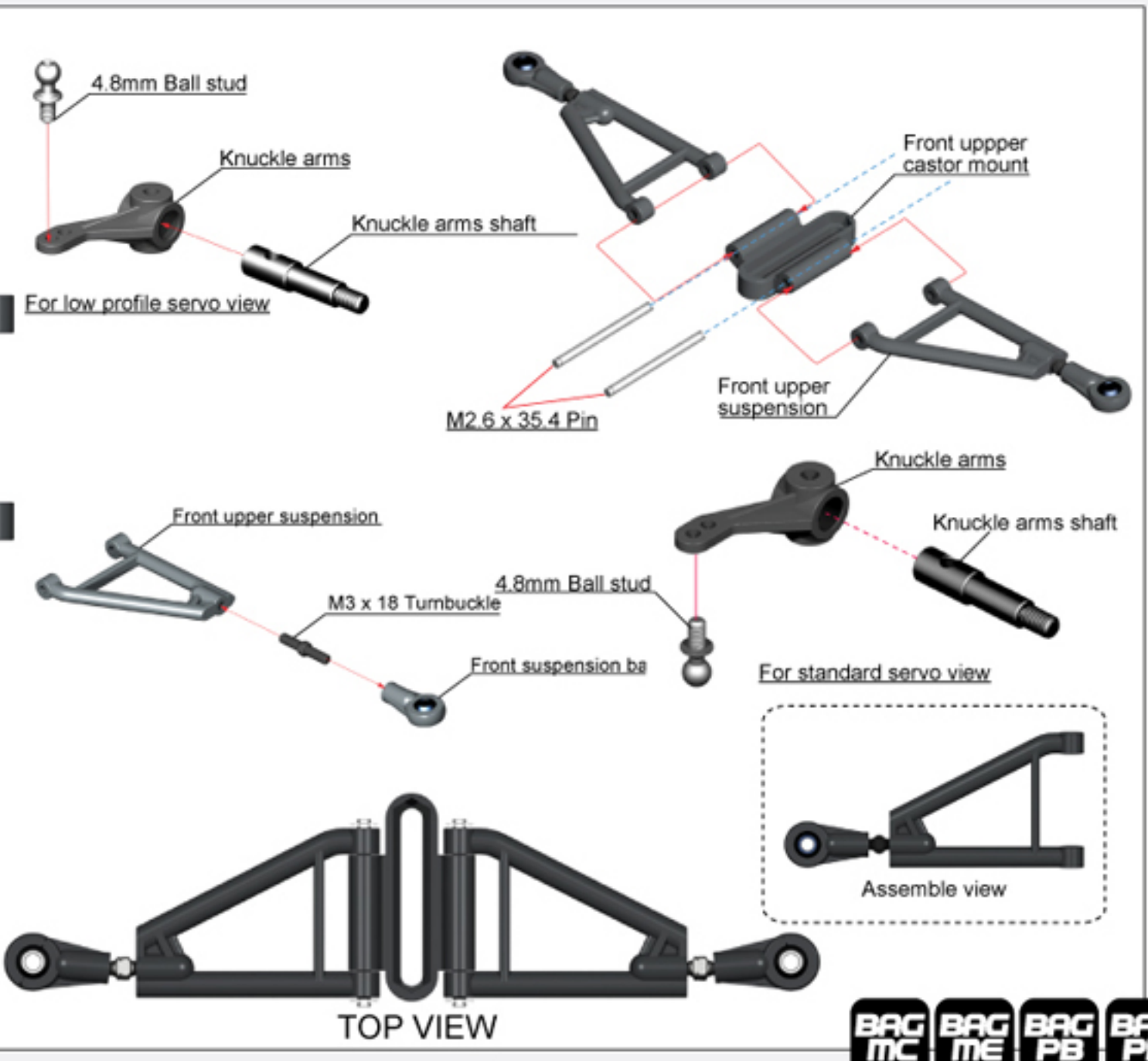
Knuckle arms X 2pcs - BAG PD6



M3 x 18 Turnbuckle X 2pcs - BAG ME



M2.6 x 35.4 Pin X 2pcs - BAG PB



BAG MC | BAG ME | BAG PB | BAG PD

5. FRONT SUSPENSION:

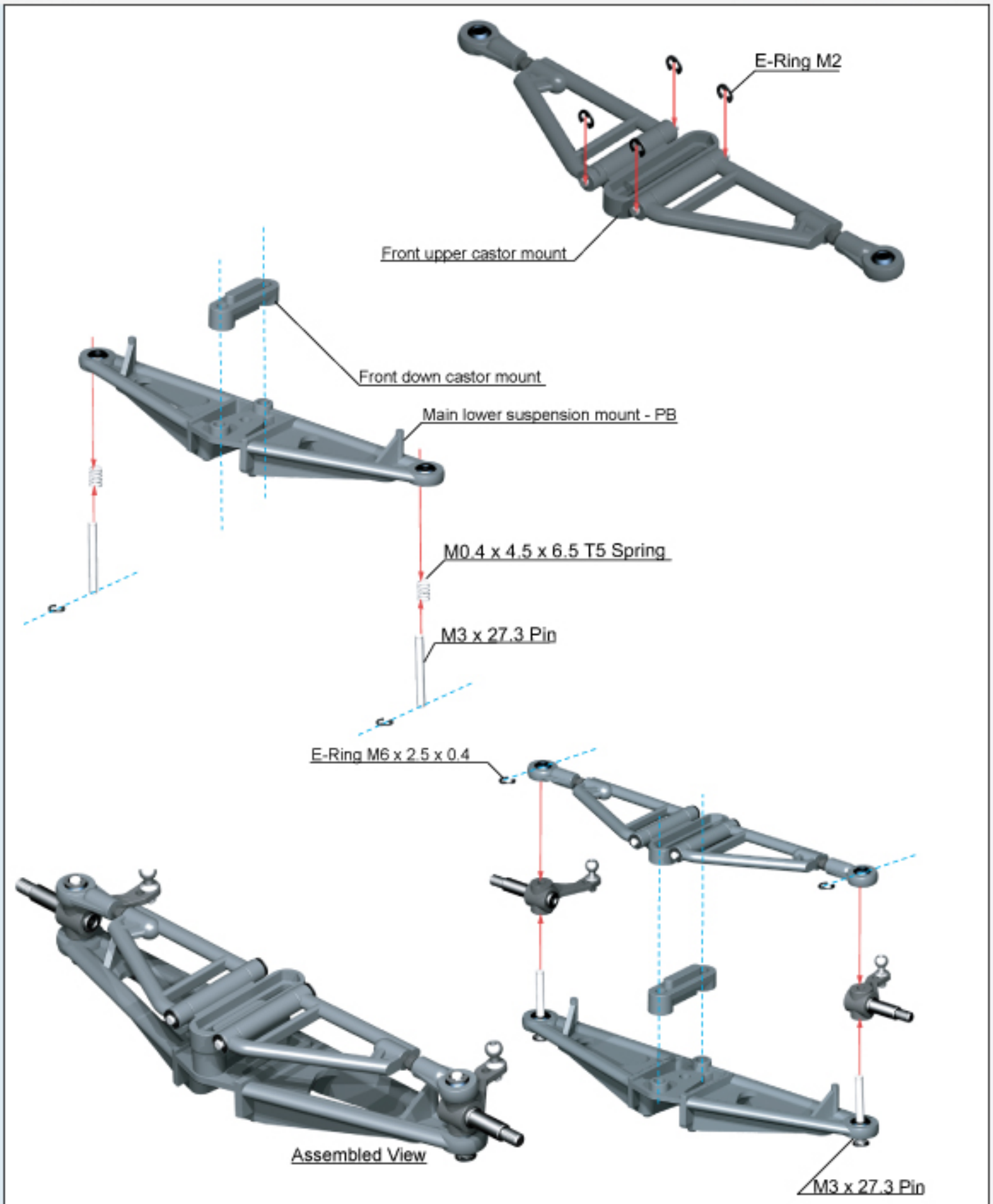
E-Ring M6 x 2.5 x 0.4 X 4pcs - BAG PB

E-Ring M2 x 4pcs - BAG PB

M3 x 27.3 Pin X 2pcs - BAG PB

Front down castor mount - BAG PB

M0.4 x 4.5 x 6.5 T5 Spring X 2pcs - BAG PB



BAG PB

6. ROLLING DAMPER BODY

BAG MA BAG 3 BAG ME BAG PD

E-Ring M2 x 1.5 x 0.35 X 2pcs - BAG 3

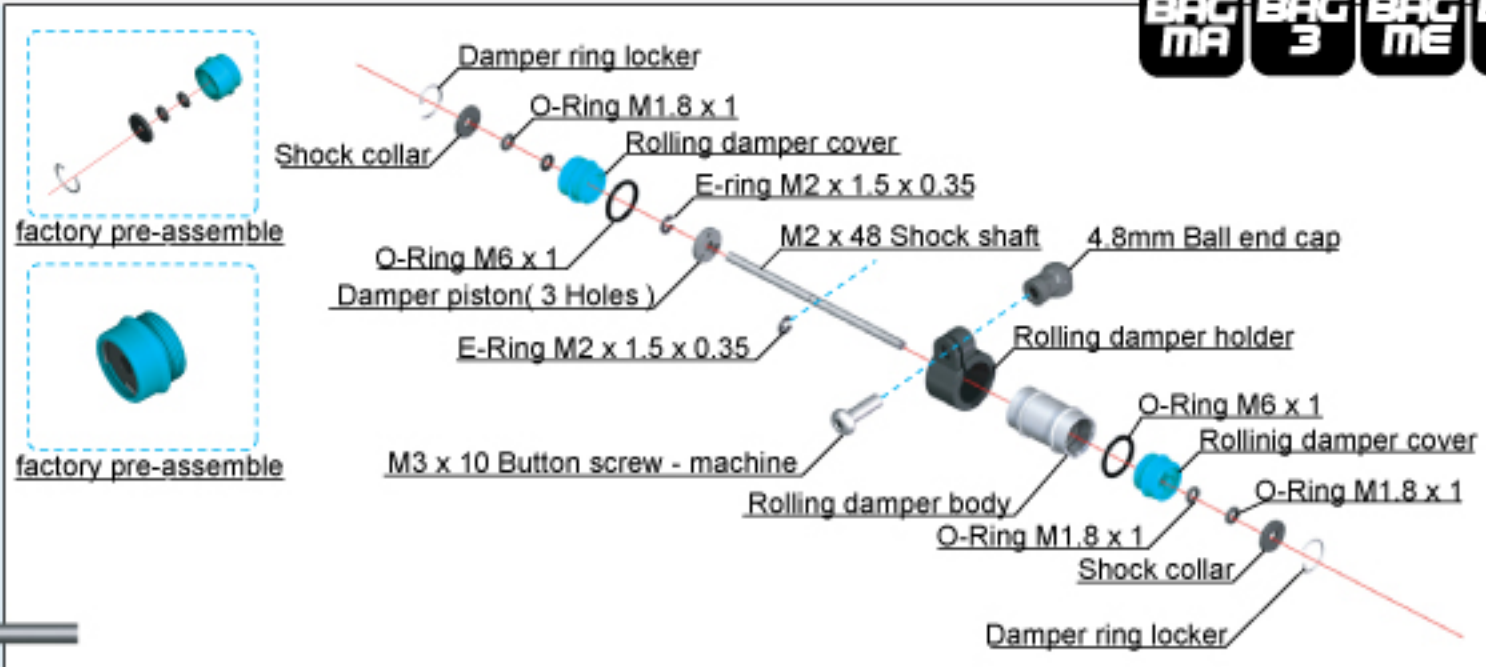
M4.8 x 9mm Ball end cap - BAG ME

Rolling damper body - BAG 3

Rolling damper cover X 2pcs - BAG 3

Rollinig damper holder - BAG PD2

M2 x 48 Shock shaft - BAG 3



6. ROLLING DAMPER BODY



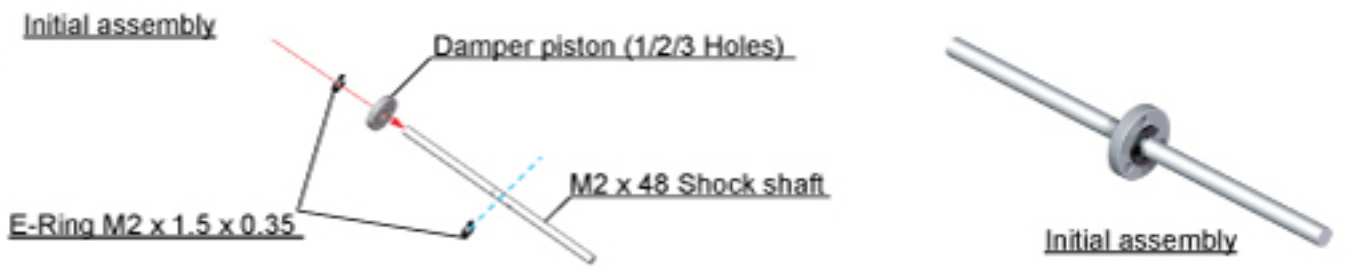
M2 X 48 Shock shaft - BAG 3

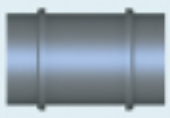


E-ring M2 x 1.5 x 0.35 - BAG 3



Damper piston 1/2/3 Holes(default setting -3 Holes) - BAG 3





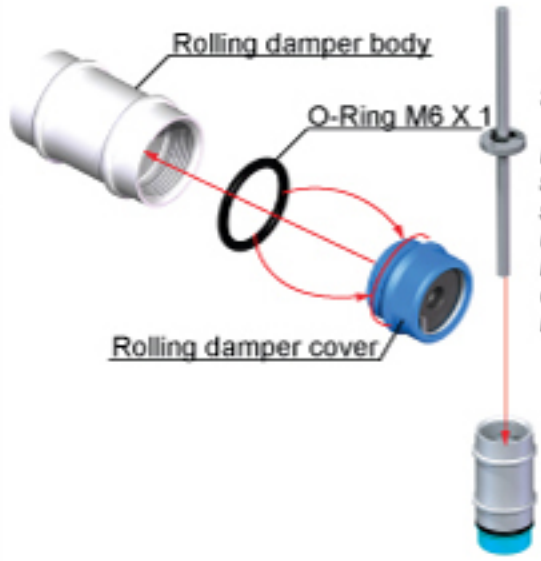
Rolling damper body - BAG 3



Rolling damper cover - BAG 3

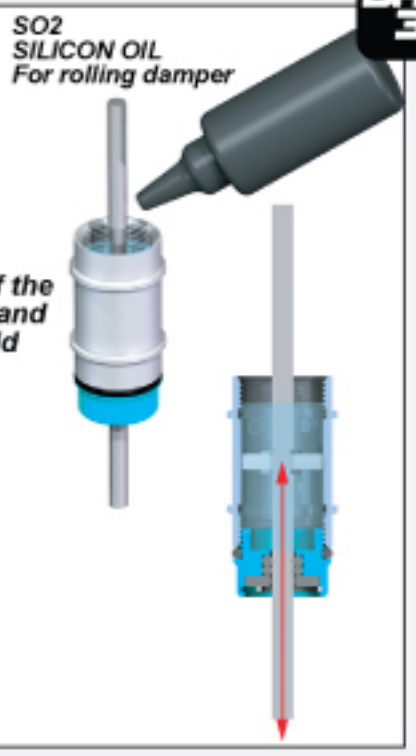


O-Ring M6 x 1 - BAG 3



SHOCK FILLING:

Fully push the piston rod to the bottom of the shock body, hold up the shock vertically and slowly the shock body with shock oil. Hold up the shock and allow the air bubbles to rise to the top, move the piston up and down slowly until no more air bubbles can be found.



BAG 3



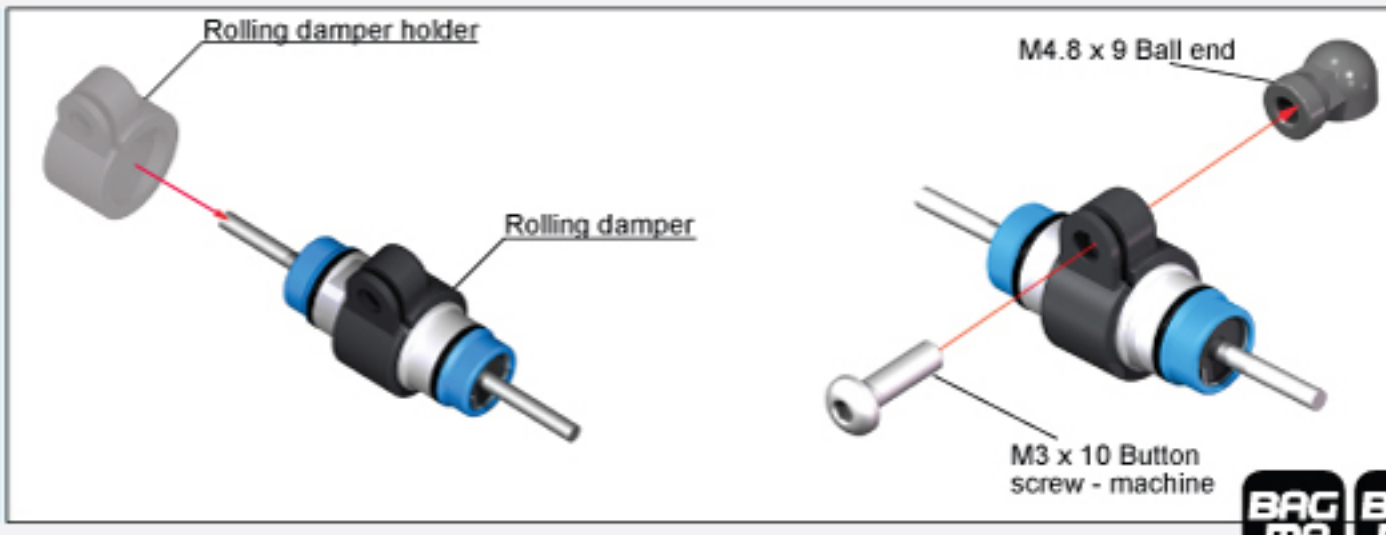
M4.8 x 9 Ball end cap - BAG ME



Rollinig damper holder - BAG PD



M3 x 10 Button screw - machine - BAG MA



BAG MA BAG ME BAG PD

7. MAIN DAMPER BODY



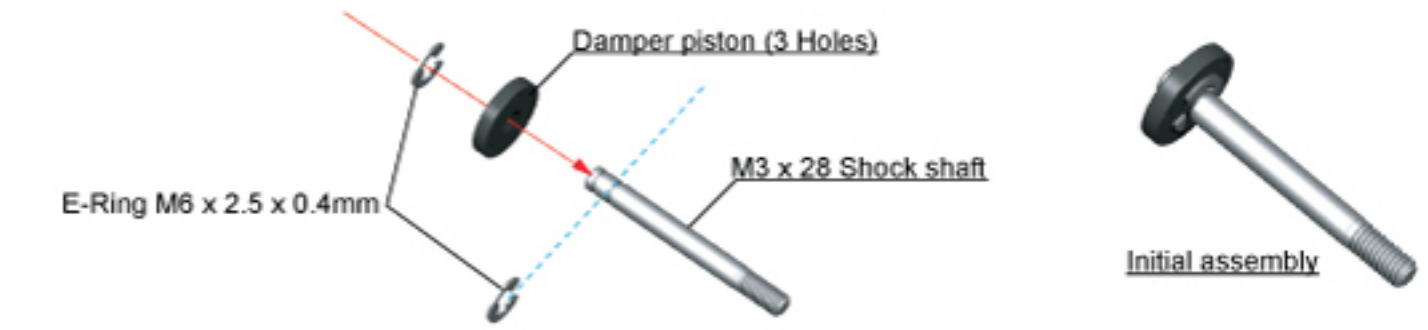
M3 x 28 Shock shaft - BAG 3



Damper piston(2/3 Holes) - BAG 3 (default setting - 3 Holes)



E-Ring 6 x 2.5 x 0.4mm 2pcs - BAG 3



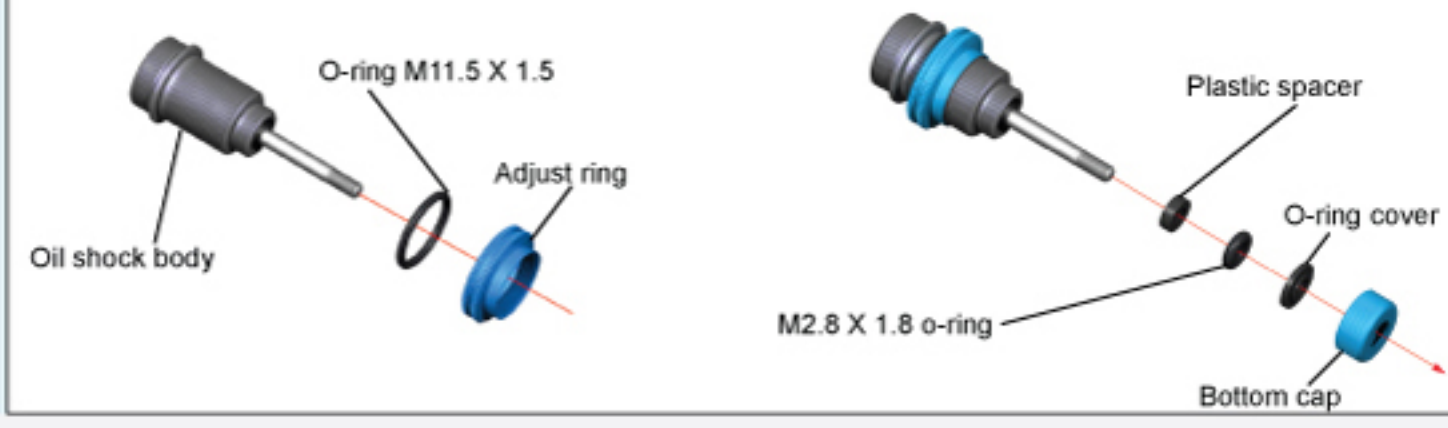
BAG 3



Adjust ring - BAG 3



Oil damper Body - BAG 3



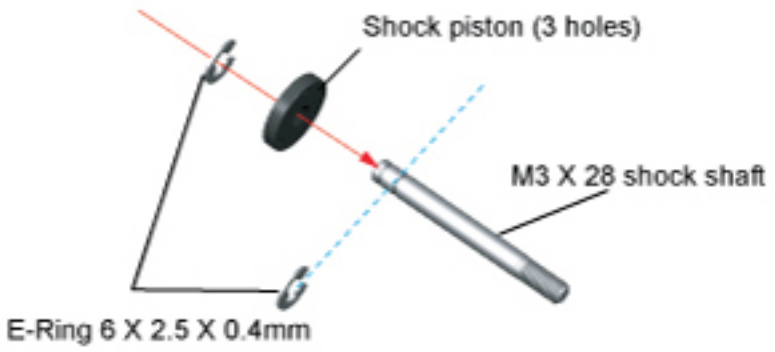
BAG 3

7. MAIN DAMPER BODY


M3 X 28 shock shaft - Bag 3

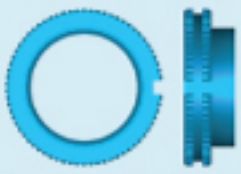

shock piston
(3 holes) - Bag 3


E-ring M6 X 2.5 X 0.4mm
- Bag 3




Initial assembly

BAG 3


Adjust ring - Bag 3


Oil shock body - Bag 3


Bottom cap - Bag 3

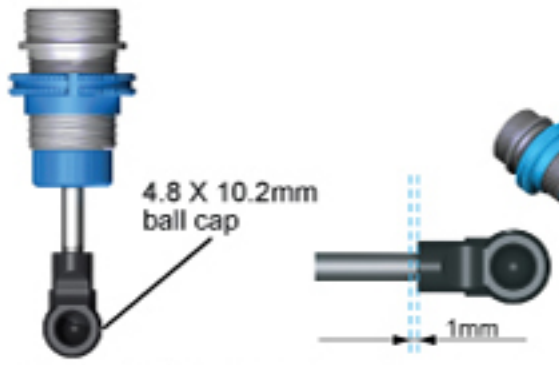

O-ring cover - Bag 3

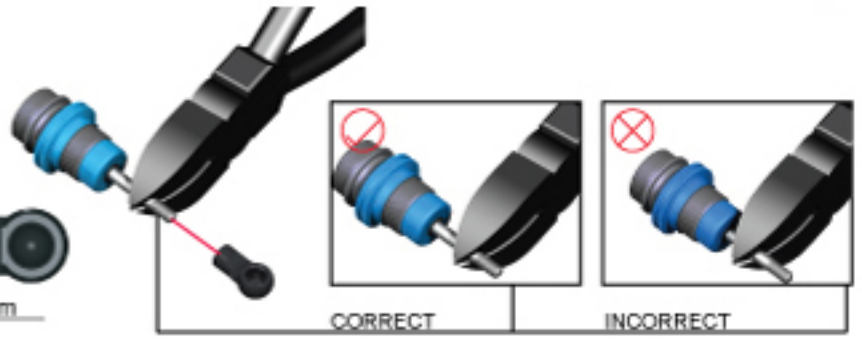

M2.8 X 1.8 o-ring - Bag 3


Plastic spacer - Bag 3


Shock silicon cap -
Bag 3


4.8mm X 10.2mm ball cap
- Bag 3





Please Pre-thread the ball end hole using an M3 screw.



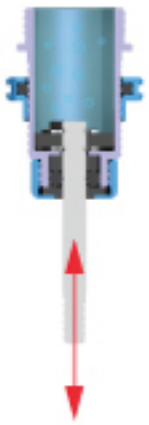
1. Fully pull the shock shaft to make the piston at the bottom of the shock body. Then hold the stock upright and overfill the shock body with stock oil slightly.

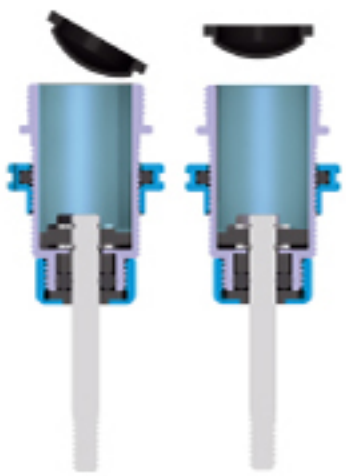
2.Slowly move the piston up and down to allow the bubbles to rise to the top until no more air bubbles appear.

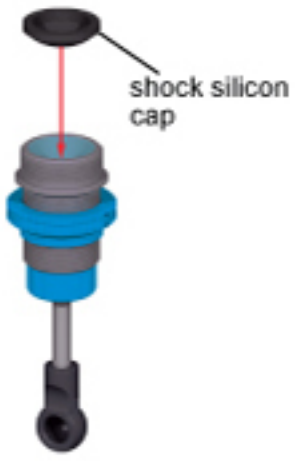
3.Pull the shock shaft to make the piston at the bottom of the shock body again. Add shock oil as necessary. Let the shock rest for 5 minutes to allow the air bubbles to escape.

4.Place the shock silicon cap on top of the shock body from a side. Some oil will leak out and it is normal

5.Fully tighten the cap and clean off any excess oil.







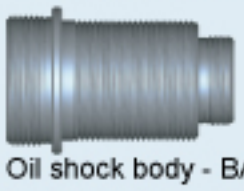


Cover the shock silicon cap to shock body, it will case some oil will leak out,this is a normal situation.

BAG 3

7. MAIN DAMPER BODY


M3 x 28 Shock shaft - BAG 3


Oil shock body - BAG 3


Aluminium adjust ring - BAG 3


Upper cover - BAG 3


Bottom cap - BAG 3


E-Ring M6 x 2.5 x 0.4mm X 2pcs - BAG 3


Damper piston(3 Hole) - BAG 3


Plastic spacer - BAG 3


M2.8 x 1.8 O-Ring - BAG 3

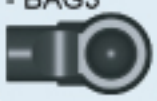

O-Ring cover - BAG3

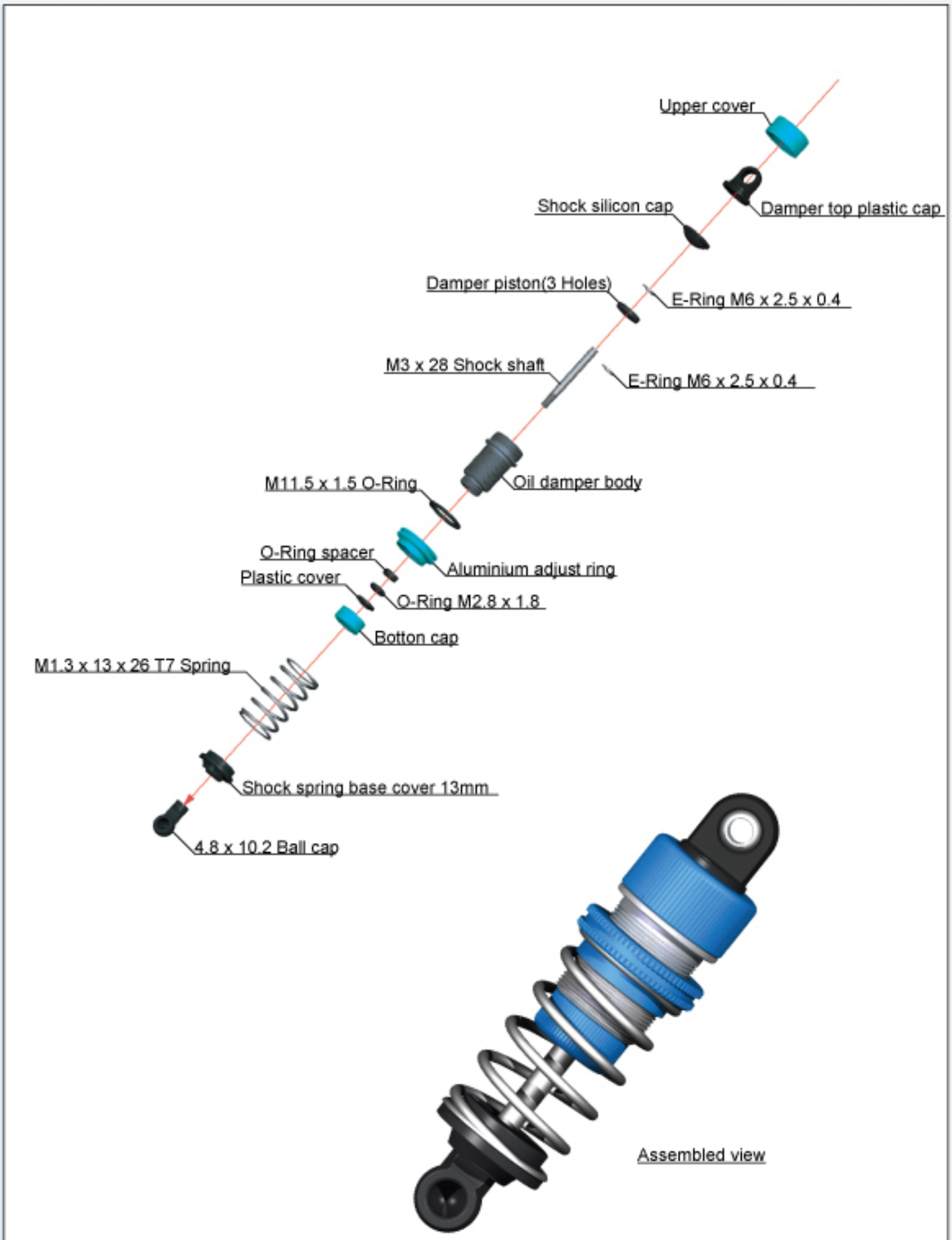

Shock silicon cap - BAG 3


Shock spring base cover 13mm - BAG 3


O-Ring M11.5 x 1.5 - BAG 3


Damper top plastic cap - BAG3


M4.8 x 10.2 Ball cap - BAG 3



BAG 1

8. CENTER BALL MOUNT

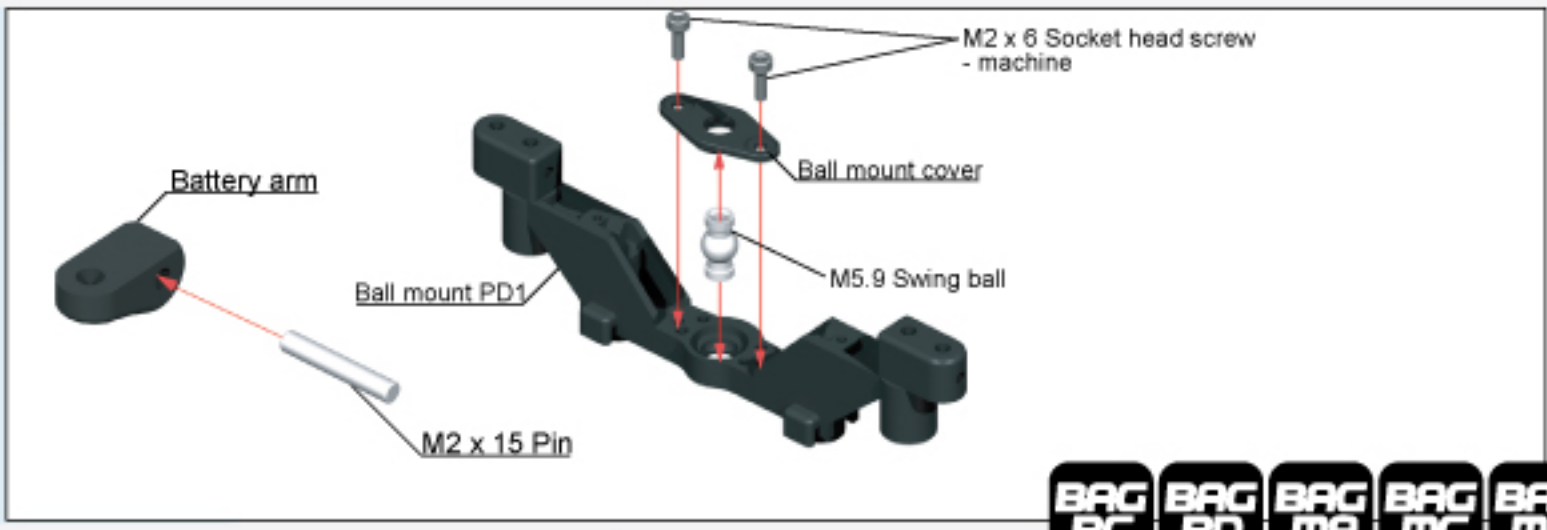

Ball mount cover - BAG PC8


Battery arm x 2 pcs - BAG PC4


M2 X 15 Pin X 2pcs - BAG MD

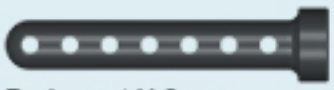

M5.9 Swing Ball - BAG MC


M2 x 6 Socket head screw 2pcs - BAG MA



BAG PC BAG PD BAG MA BAG MC BAG MD

8. CENTER BALL MOUNT



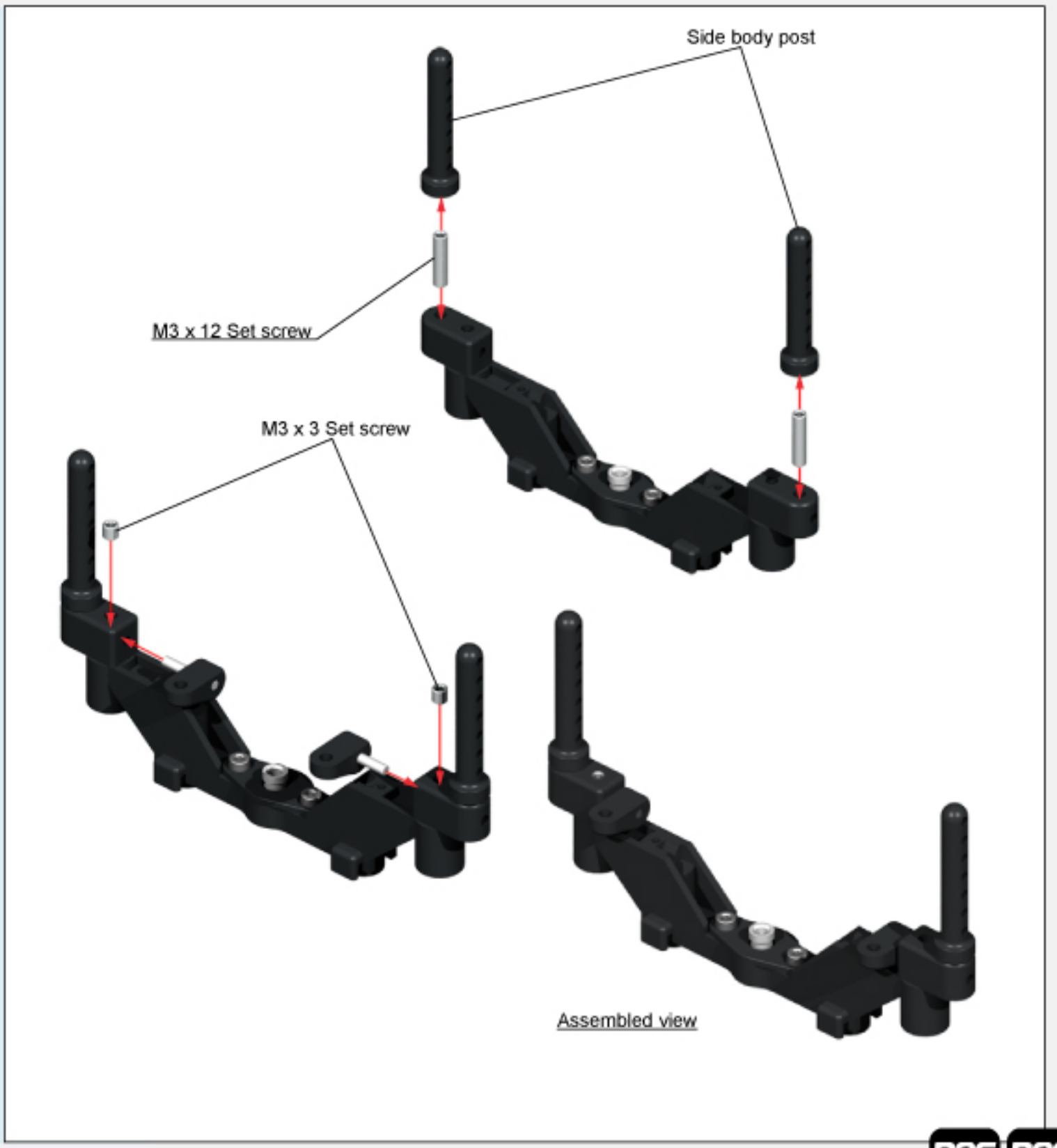
Body post X 2pcs - BAG PC3



M3 x 12 Set screw X2pcs - BAG MA



M3 x 3 Set screw X 2pcs - BAG MC



BAG MA BAG PC

9. SERVO SAVER ASSEMBLY:



Servo saver - Sanwa, JR Acoms, KO - BAG PF4

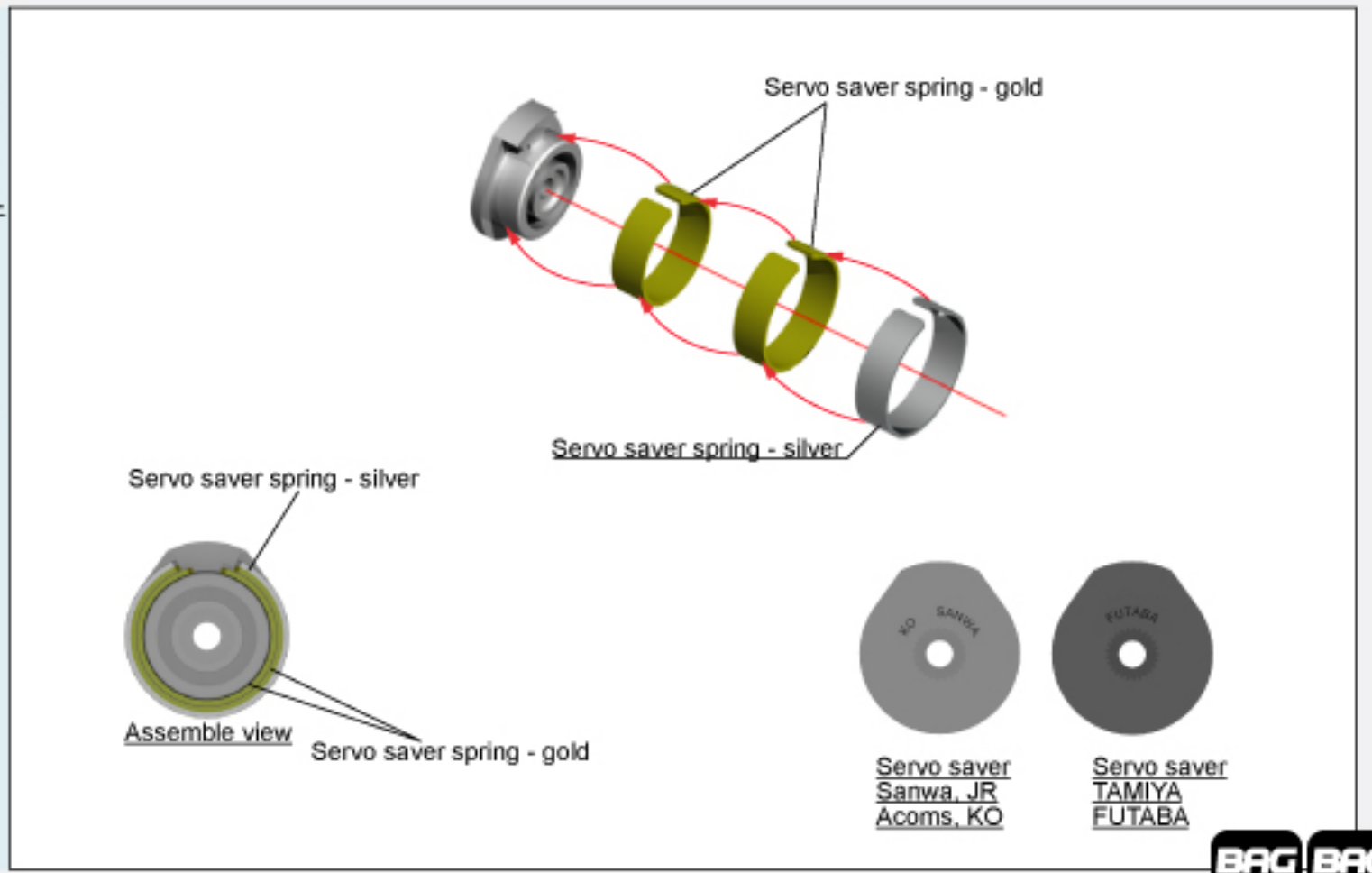


Servo saver - TAMIYA FUTABA - BAG PF3



Servo saver spring - silver - BAG MB

Servo saver spring - gold X 2pcs - BAG MB



BAG PF BAG MB

10. ASSEMBLE WITH STANDARD SERVO

F1-09

BAG 2 | BAG PD | BAG PF | BAG MA | BAG MB | BAG MC



Servo saver - BAG PF3/4



Servo saver cover - BAG PF5



M3 Nut X 2pcs - BAG MB



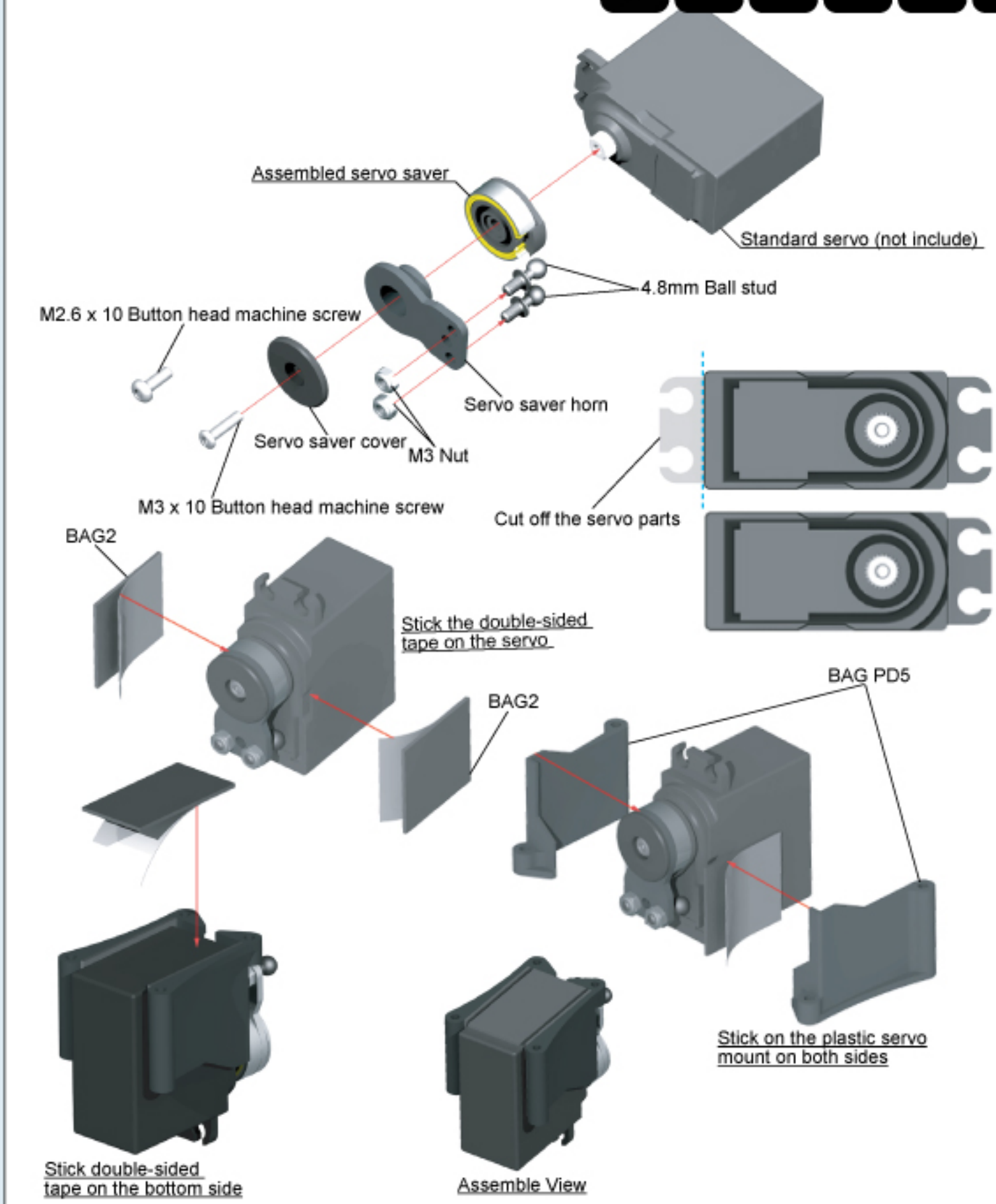
4.8mm Ball stud X 2pcs - BAG MC



M3 x 10 Button head phillips screw - machine - BAG MA

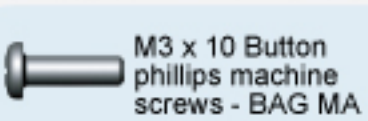


M2.6 x 10 Button head phillips screws - BAG MA

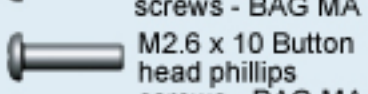


11. ASSEMBLE WITH LOW PROFILE SERVO

BAG MA | BAG MB | BAG MC | BAG PF



M3 x 10 Button phillips machine screws - BAG MA



M2.6 x 10 Button head phillips screws - BAG MA



4.8mm Ball stud - BAG MC



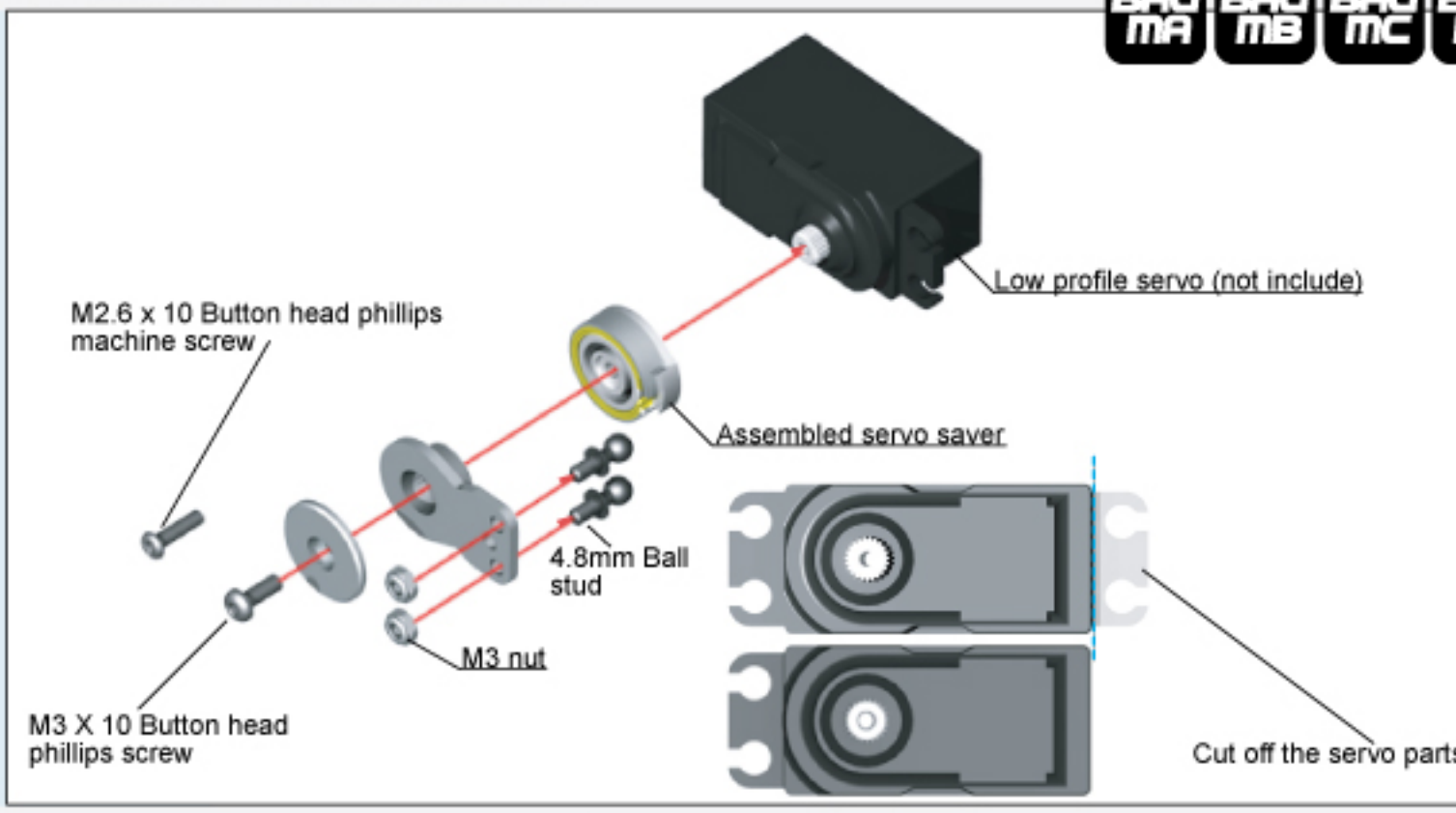
M3 Nut x 2pcs - BAG MB



Servo saver - BAG PF

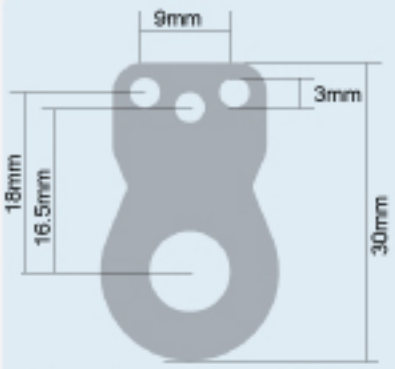


Servo saver cover - Bag PF

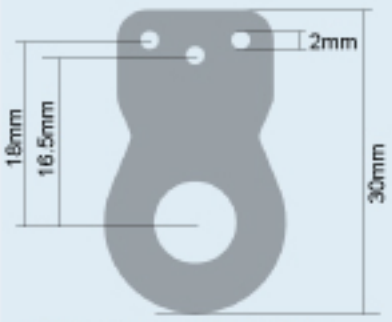


11. ASSEMBLE WITH LOW PROFILE SERVO

BAG 2 BAG PD BAG PF



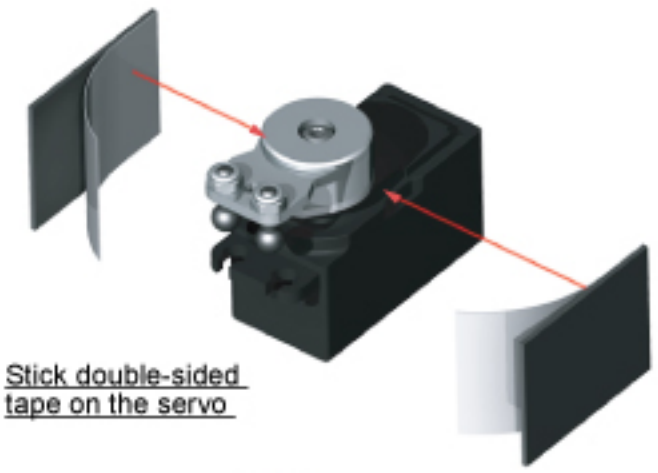
3mm Servo horn - BAG PF



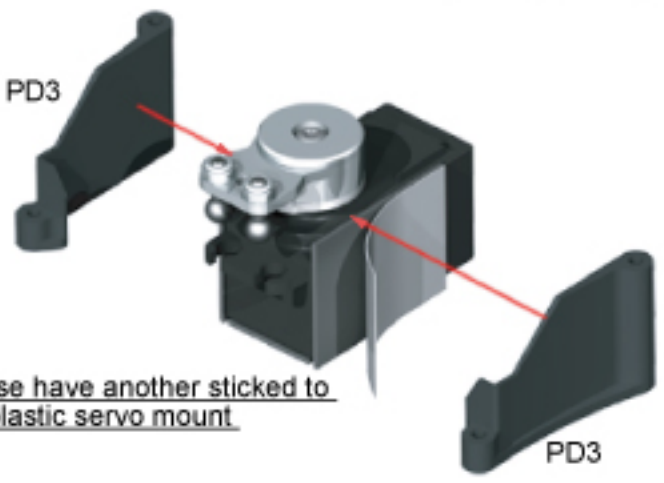
2mm Lower servo horn - BAG PF



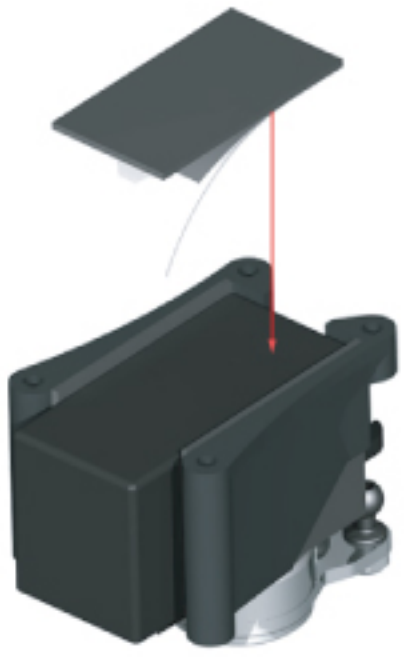
2mm Lower servo horn - BAG PF



Stick double-sided tape on the servo



Please have another sticked to the plastic servo mount



Stick the double-sided tape on the bottom side



Assemble vew

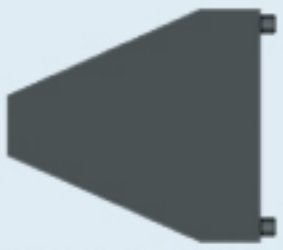
12. ASSEMBLE WITH MAIN CHASSIS

BAG MC BAG 2 BAG PD

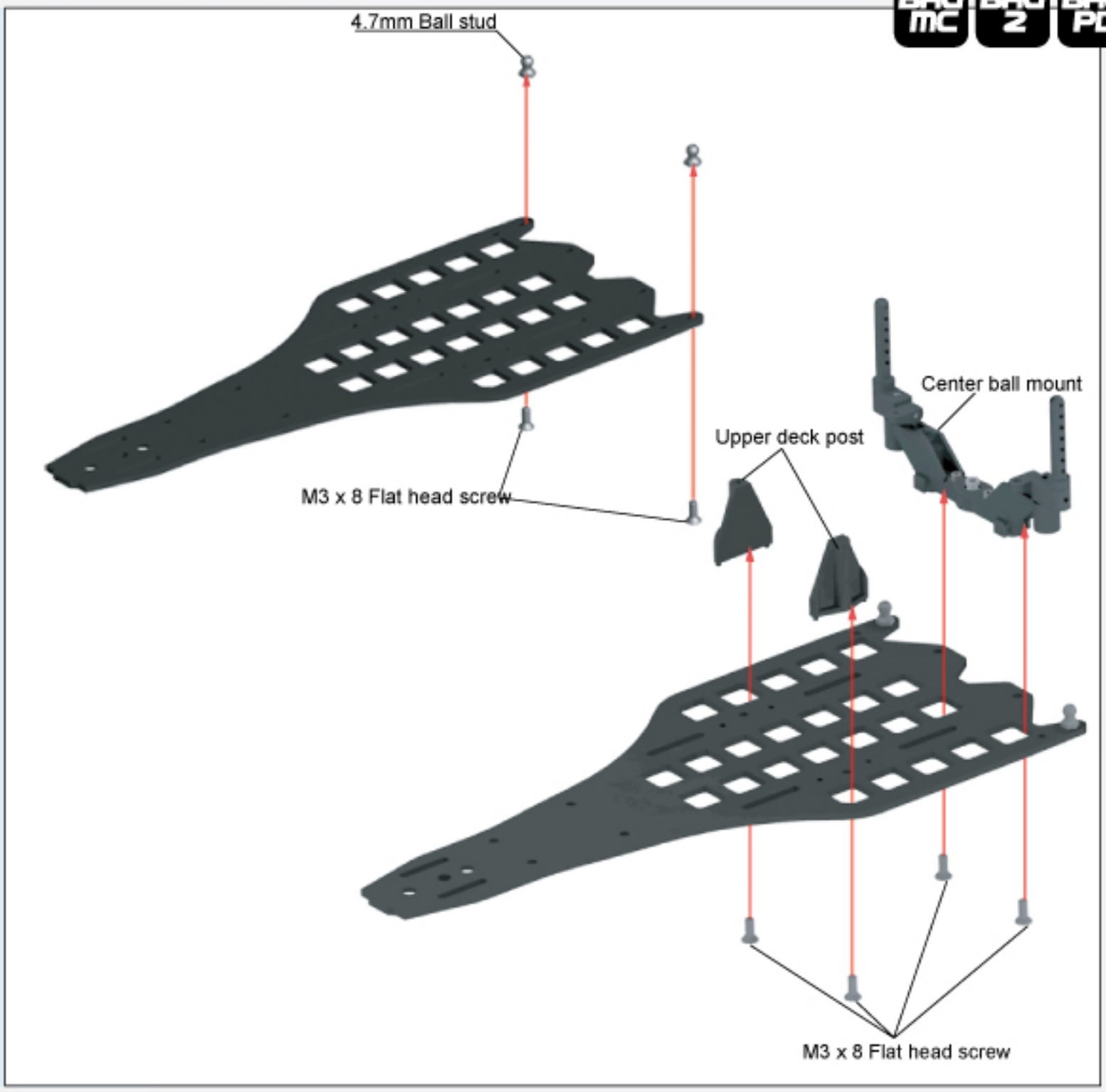


M3 x 8 Flat head screw - machine X 6pcs - BAG MA

4.7mm Ball stud X 2pcs - BAG MC



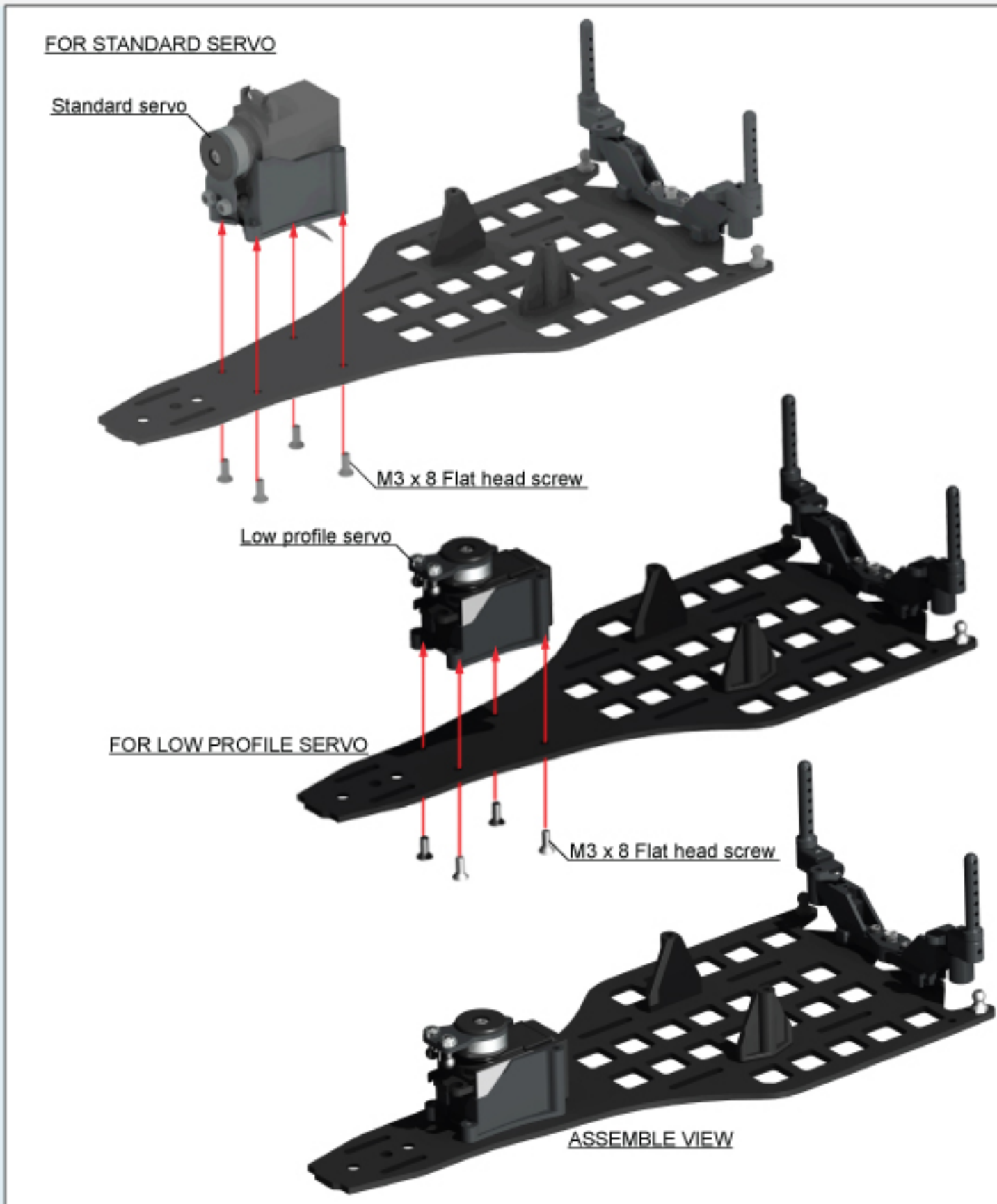
Upper deck post X 2pcs - BAG PD4



13. ASSEMBLE WITH SERVO & MAIN CHASSIS



M3 X 8 Flat head
X 4pcs



14. ASSEMBLE WITH FRONT WING SET



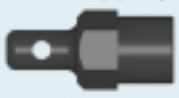
M3 x 10 Button phillips screw
- self tapping X 1pcs



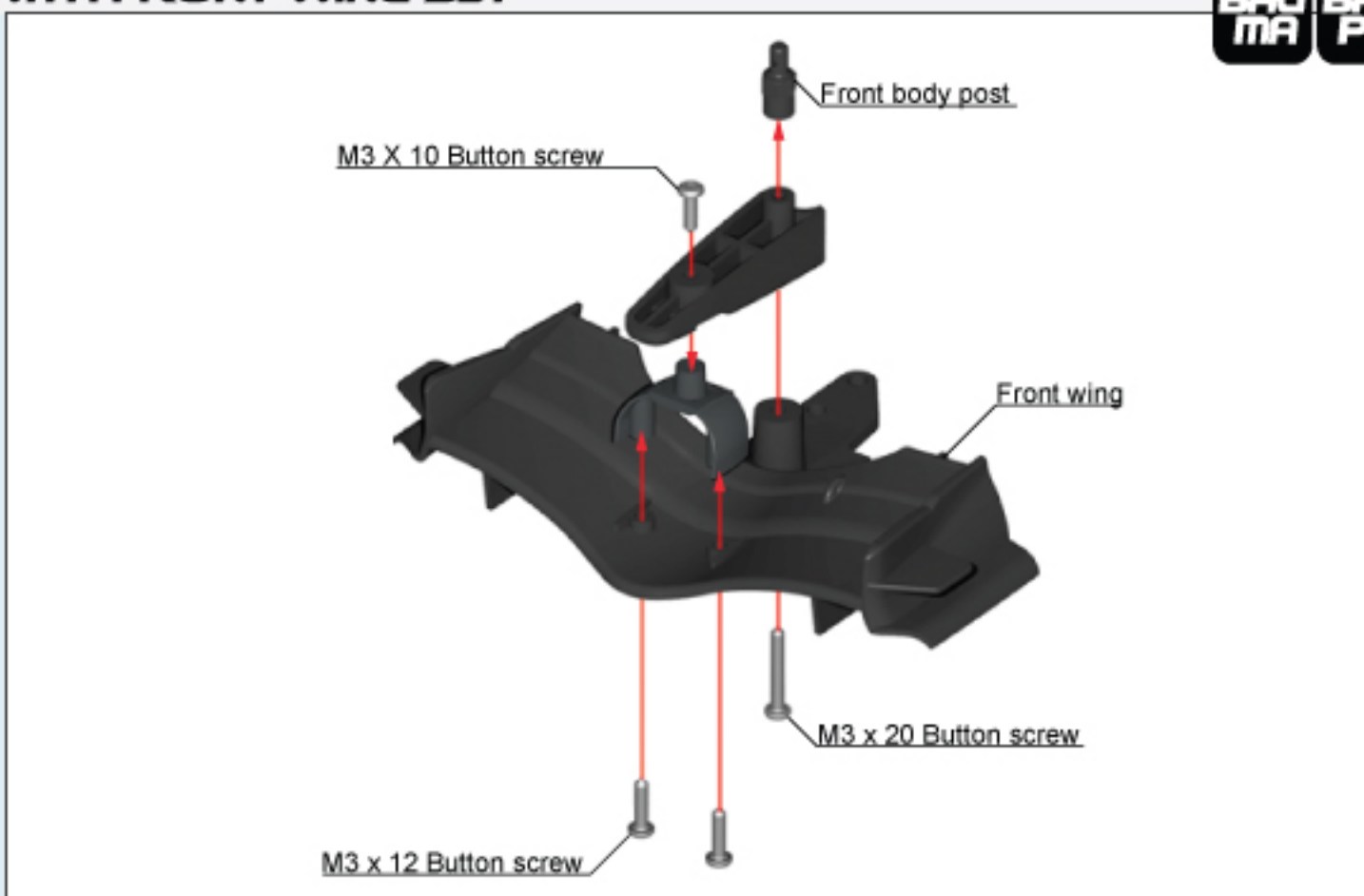
M3 x 12 Button phillips screw
- self tapping X 2pcs



M3 x 20 Button phillips screw
- self tapping



Front body post - BAG PC1



15. ASSEMBLE WITH REAR WING MOUNT

F1-09

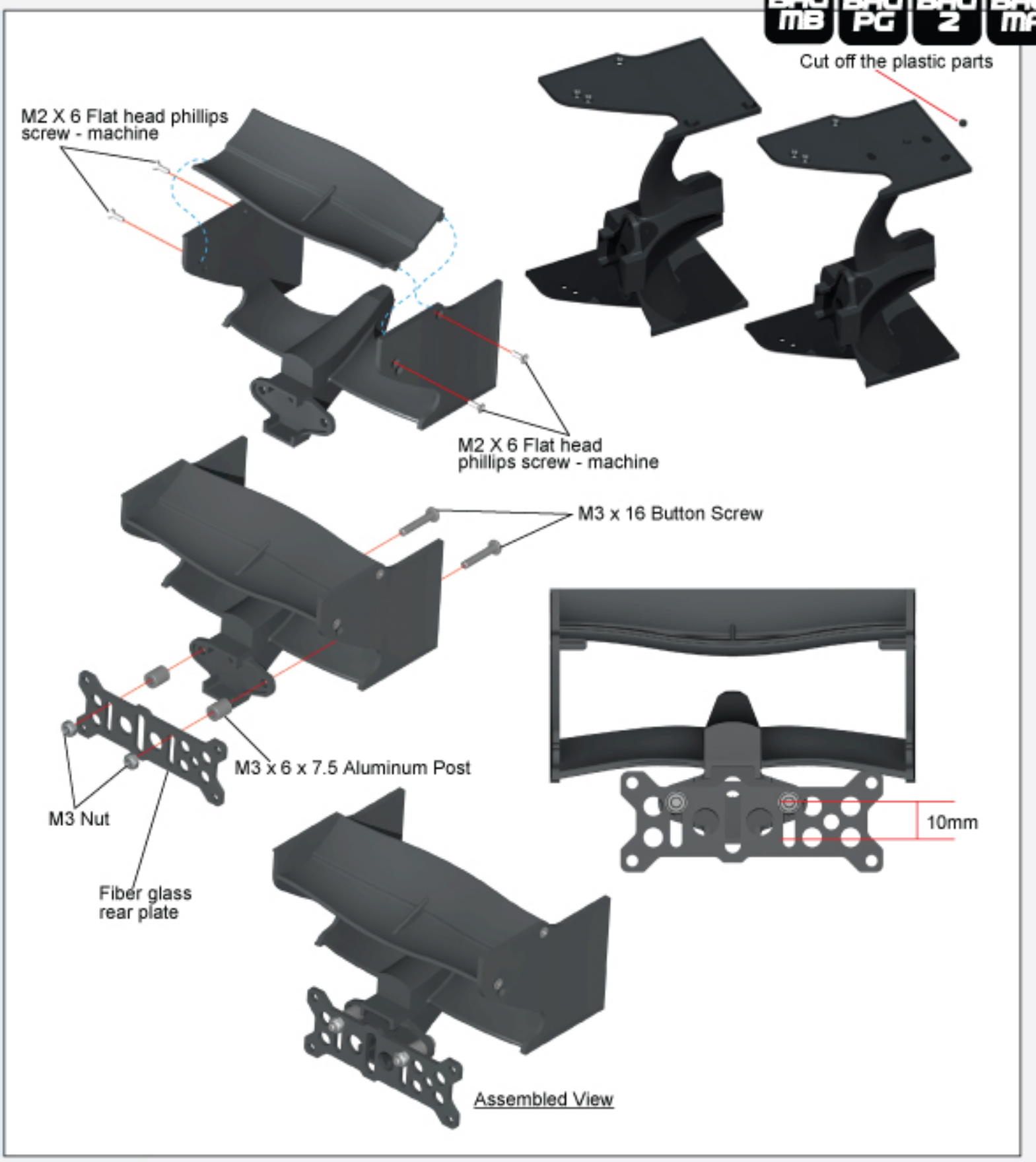
BAG MB BAG PG BAG 2 BAG MA

M3 x 16 Button screw - machine X 2pcs

M2 X 6 Flat head phillips screw - machine X 4pcs

M3 x 6 x 7.5 Aluminum Post X 2pcs

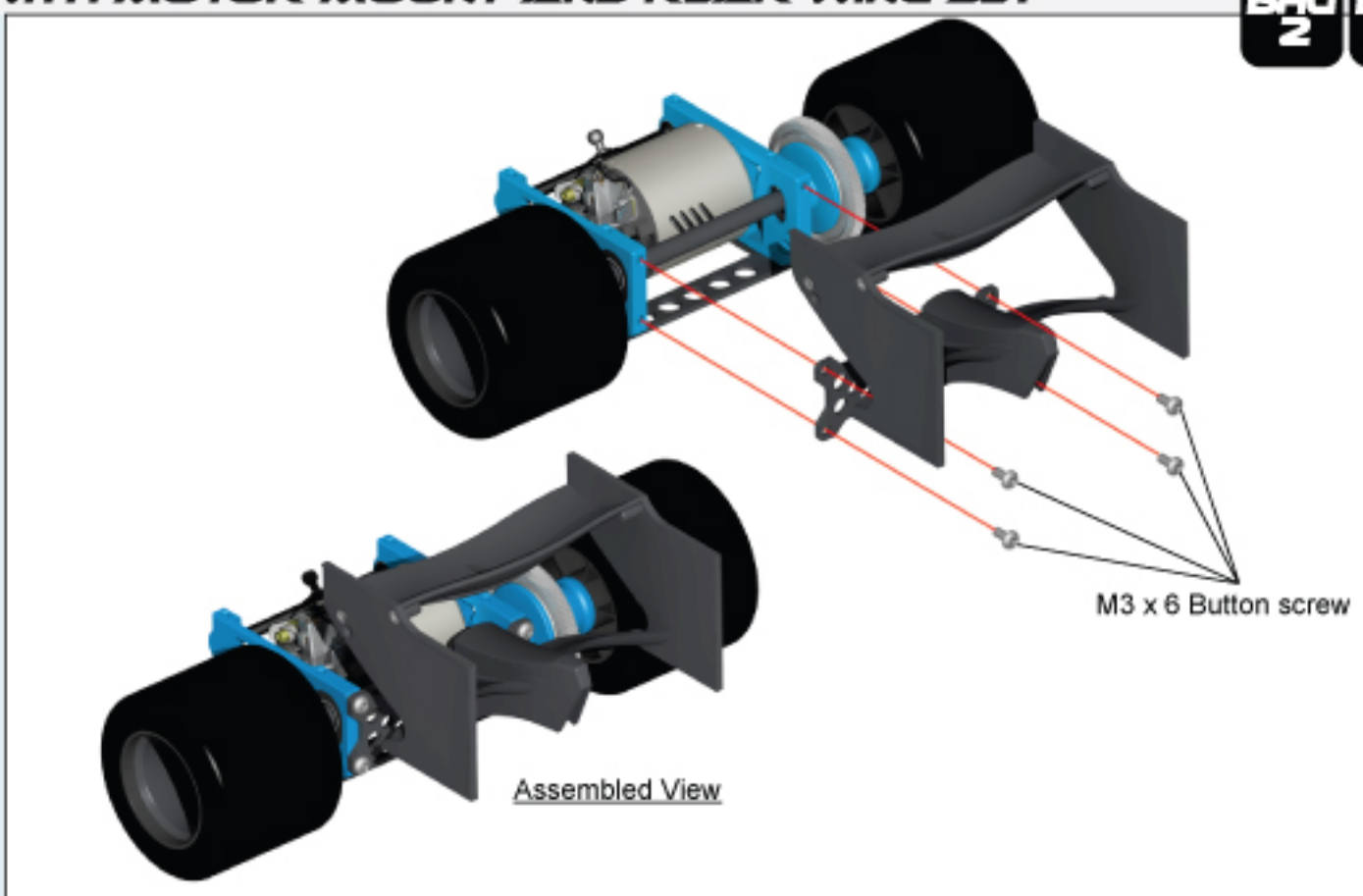
M3 nut X 2pcs



16. ASSEMBLE WITH MOTOR MOUNT AND REAR WING SET

BAG 2 BAG PG BAG MA

M3 x 6 Button screw X 4pcs



17. ASSEMBLE WITH MAIN CHASSIS & FRONT SUSPENSION

F1-09

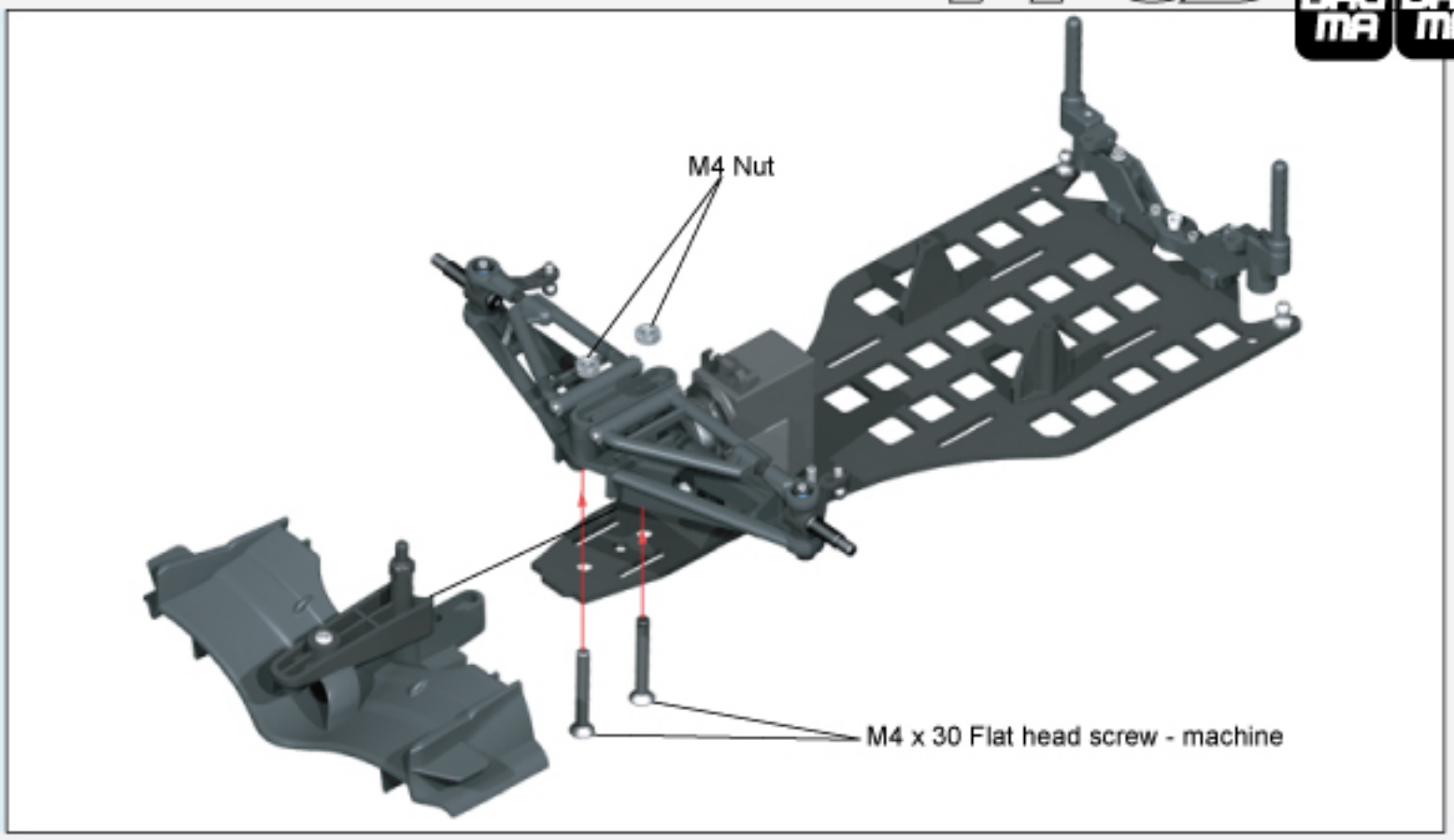
BAG MA BAG MB



M4 x 30 Flat head screw - machine X 2pcs - BAG MA



M4 Nut x 2pcs - BAG MB

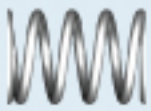


18. ASSEMBLE WITH CENTER MOUNT & MAIN CHASSIS

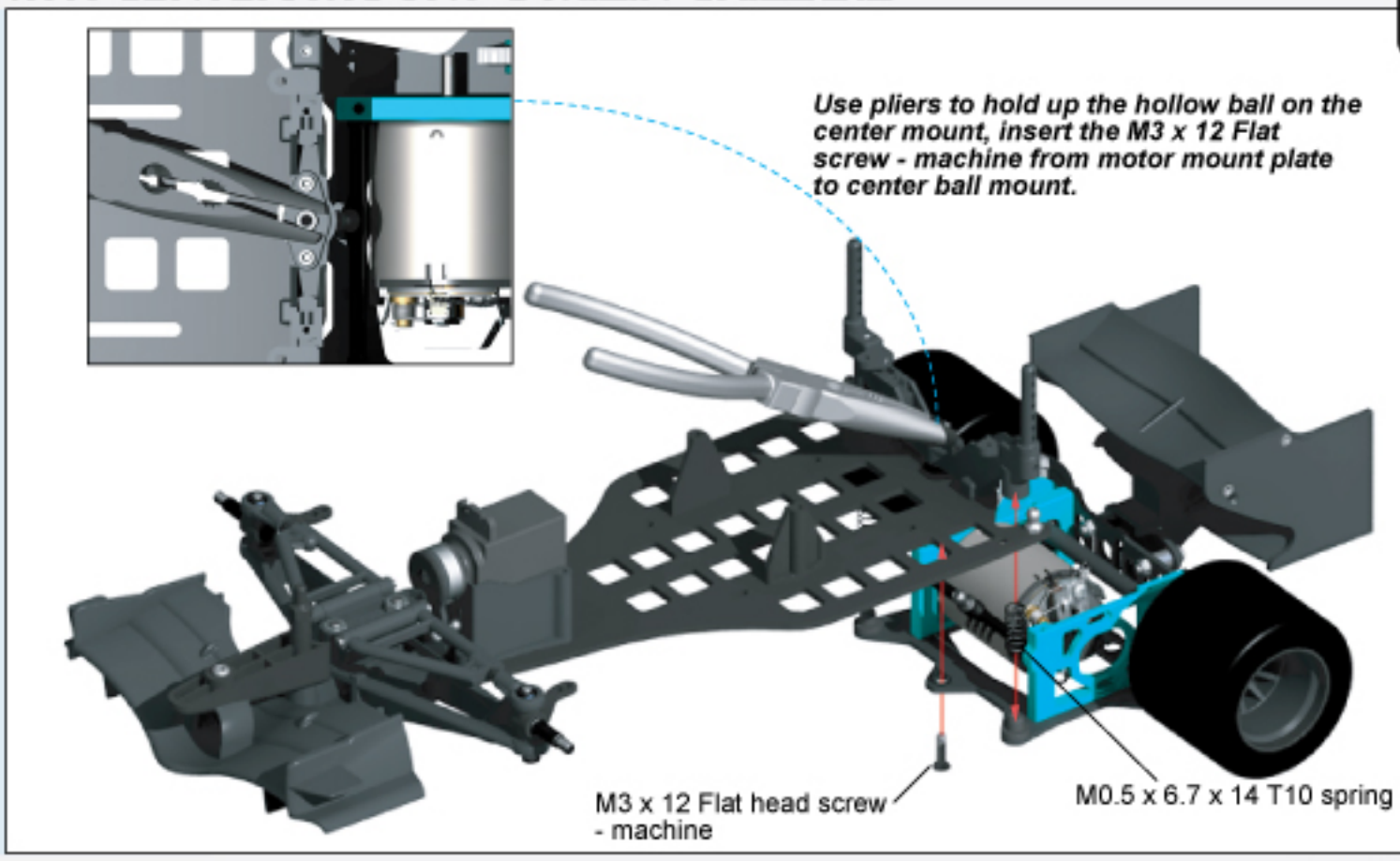
BAG MA



M3 x 12 Flat head screw screw - machine - BAG MA



M0.5 x 6.7 x 14 T10 spring



19. ASSEMBLE WITH CENTER MOUNT & ROLLING DAMPER

BAG MD BAG MA



M2 x 5.4 x 0.9 Spacer X 2pcs - BAG MD



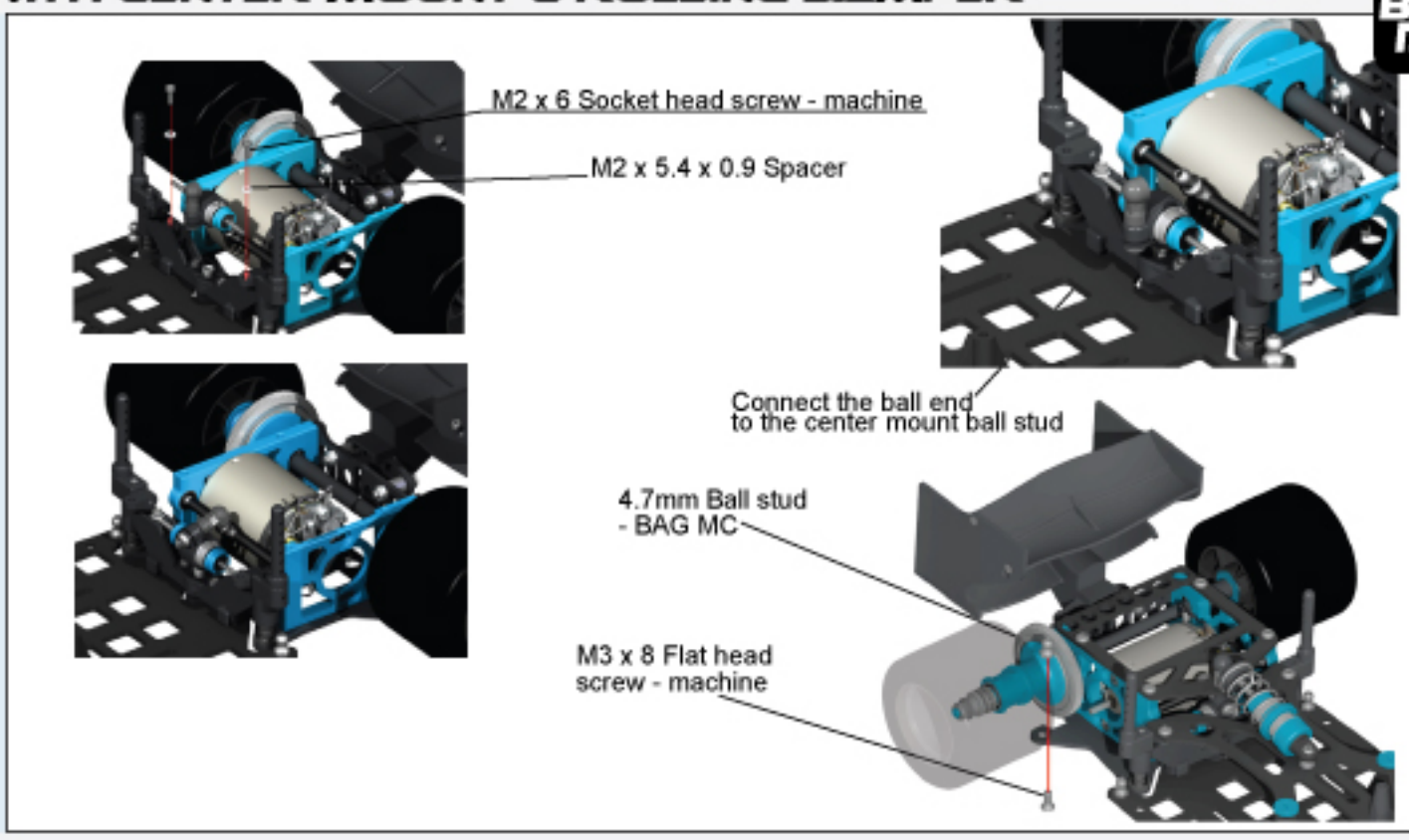
M2 x 6 Socket head screw - machine X 2pcs - BAG MA



M3 x 8 Flat head screw - machine - BAG MA



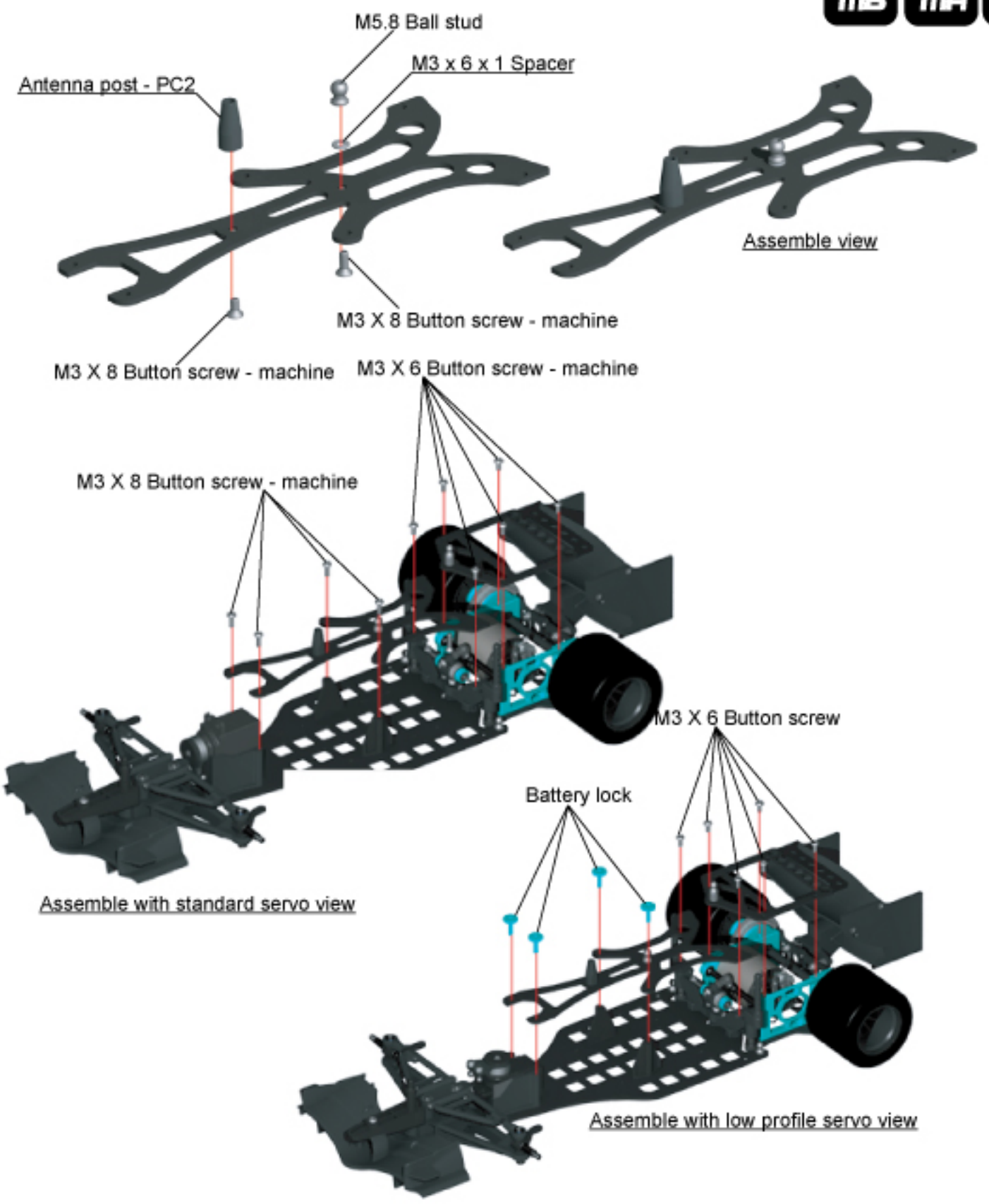
4.7mm Ball stud - BAG MC



20. ASSEMBLE WITH UPPER DECK

BAG MB BAG MA BAG 2

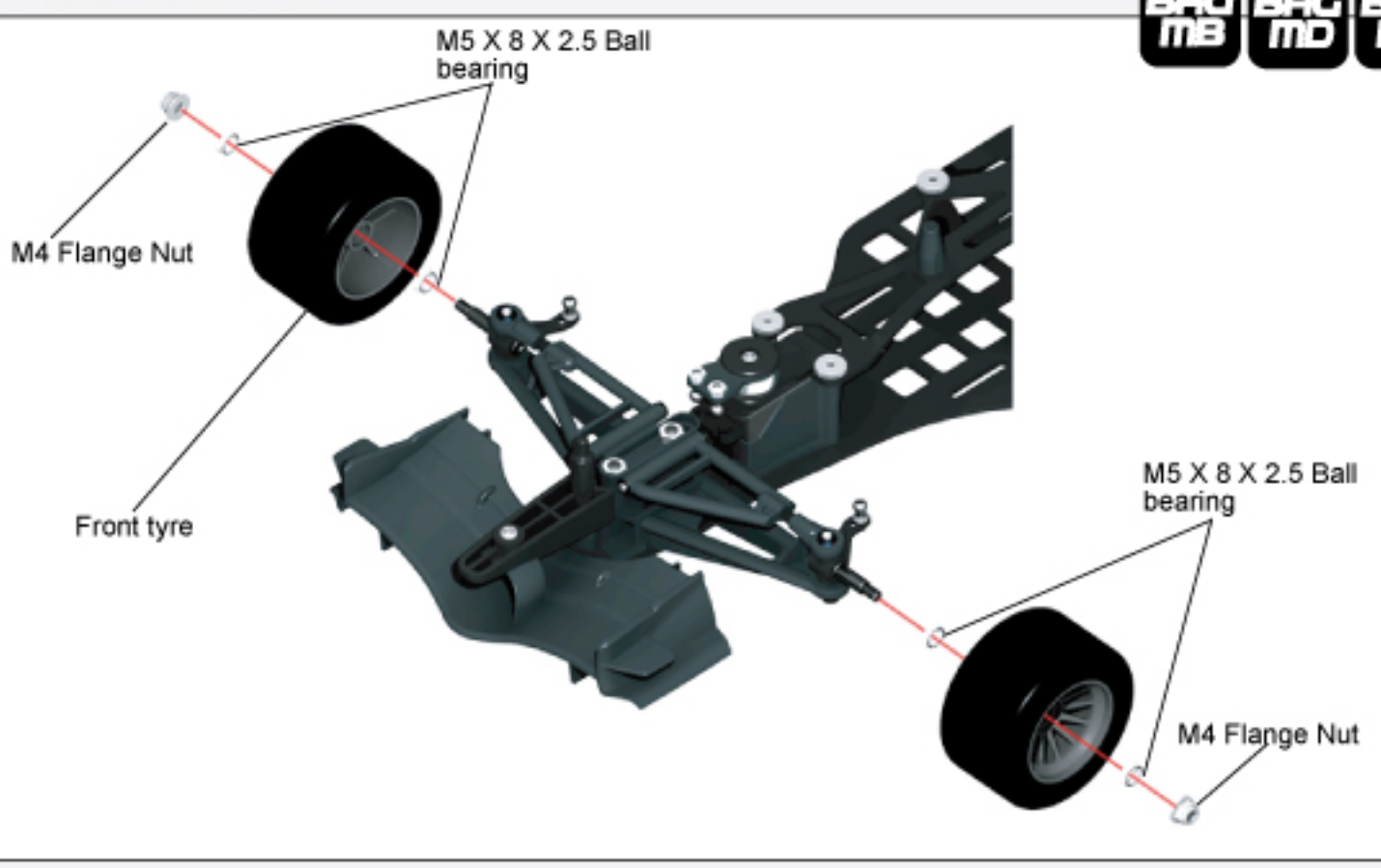
- Battery lock X 4pcs - BAG MB
- M3 x 8 Button screw machine X 4pcs - BAG MA
- M3 x 6 Button Screw machine X 6pcs - BAG MA
- M5.9 Swing ball - Bag MC
- M3 x 8 Flat screw machine X 2pcs
- M5.8 Ball stud



21. ASSEMBLE WITH FRONT TYRE

BAG MB BAG MD BAG PA

- M5 x 8 x 2.5 Ball bearing X 4pcs - BAG MD
- M4 Flange nut x 2pcs - BAG MB



22. ASSEMBLE WITH STEERING AND MOTOR TURNBUCKLE



M3 x 35mm Turnbuckle X 2pcs



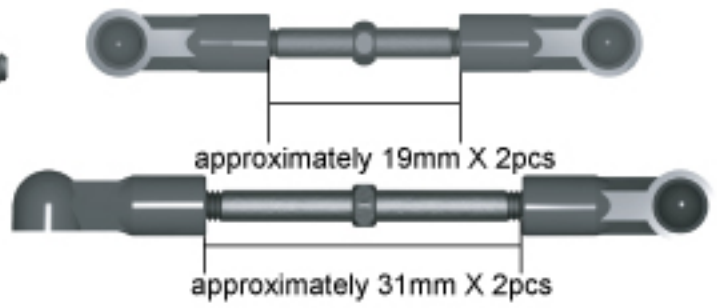
M3 x 45mm Turnbuckle X 2pcs

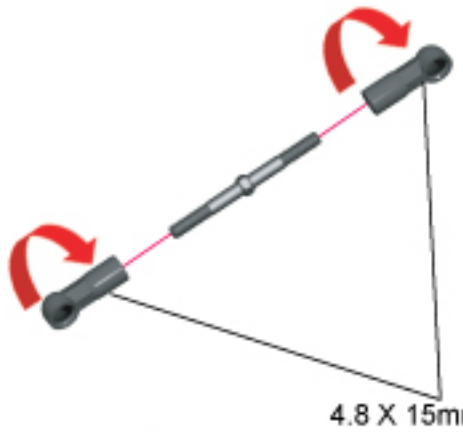


4.8 x 15mm Ball cap X 8pcs

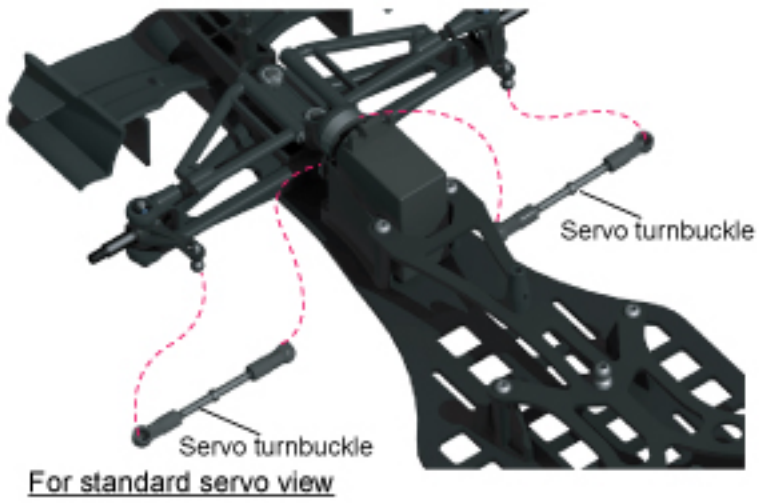


M0.5 X 6.7 X 14 T10 spring X 2pcs

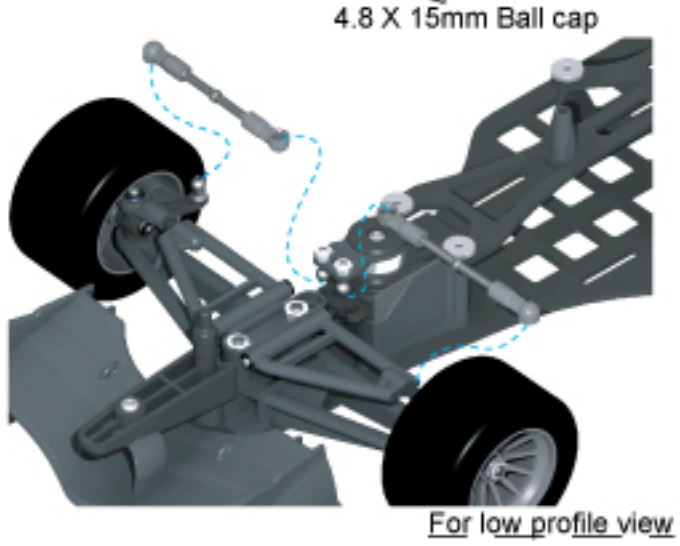




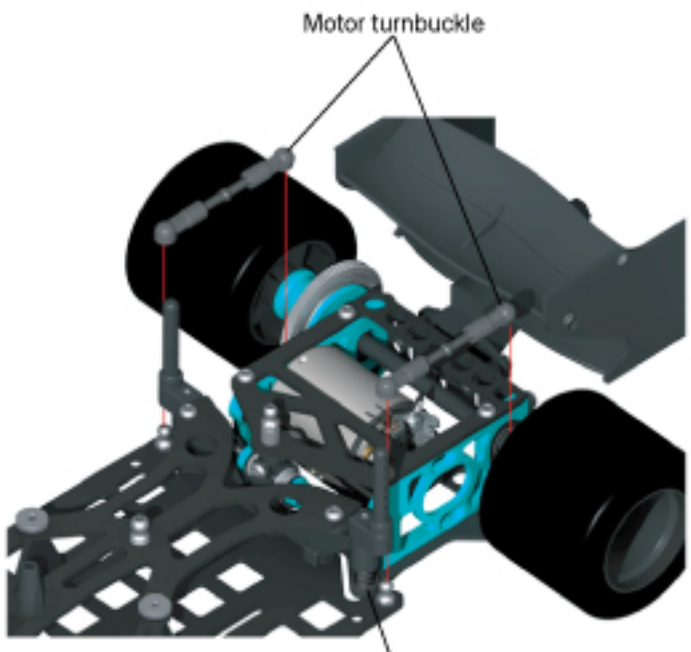
4.8 X 15mm Ball cap

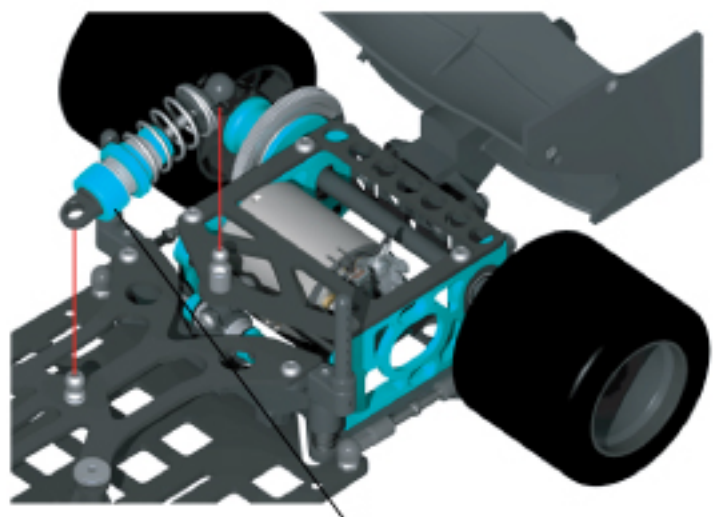


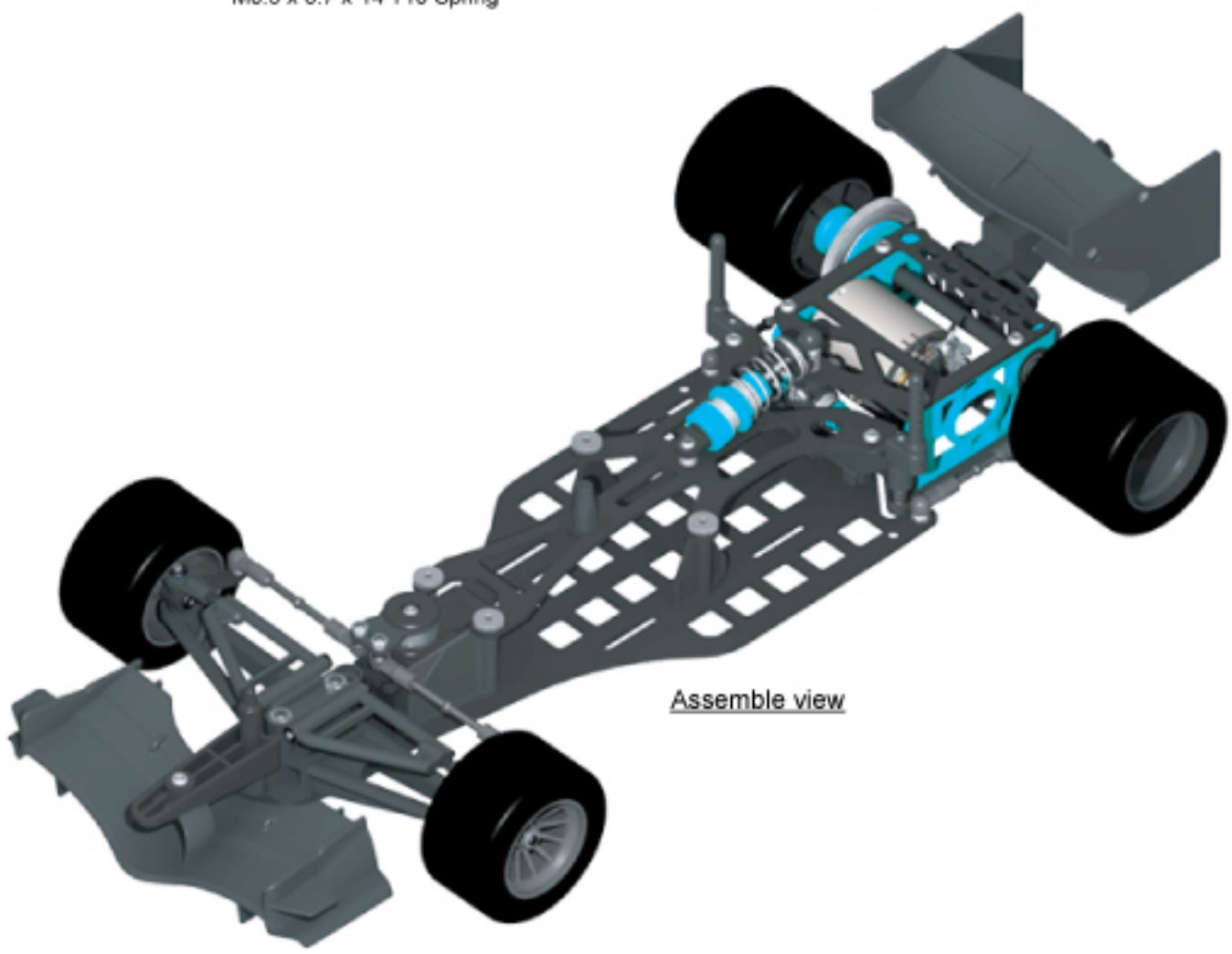
For standard servo view



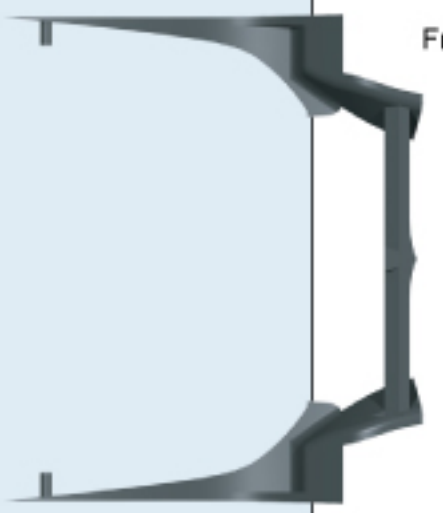
For low profile view







Assemble view



BAG PE 1



BAG PE2



BAG PE2



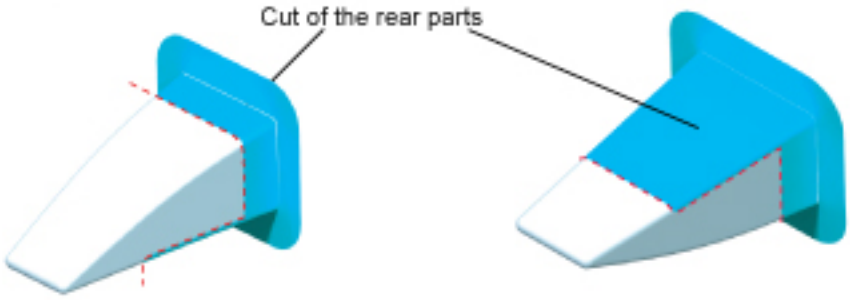
BAG PE5

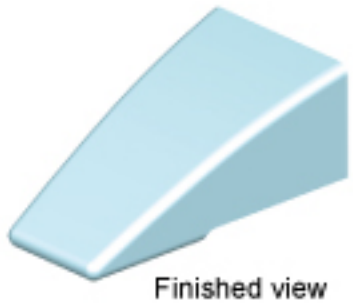


BAG PE6

Front part of lexan car body

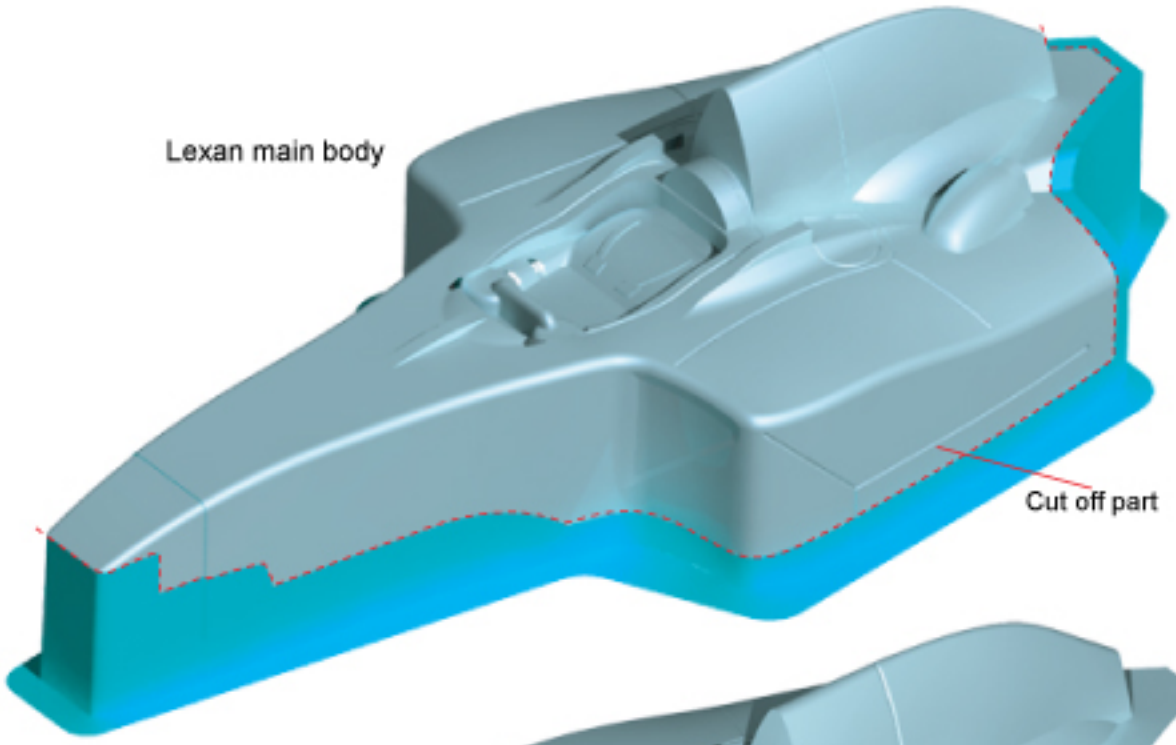
Cut of the rear parts



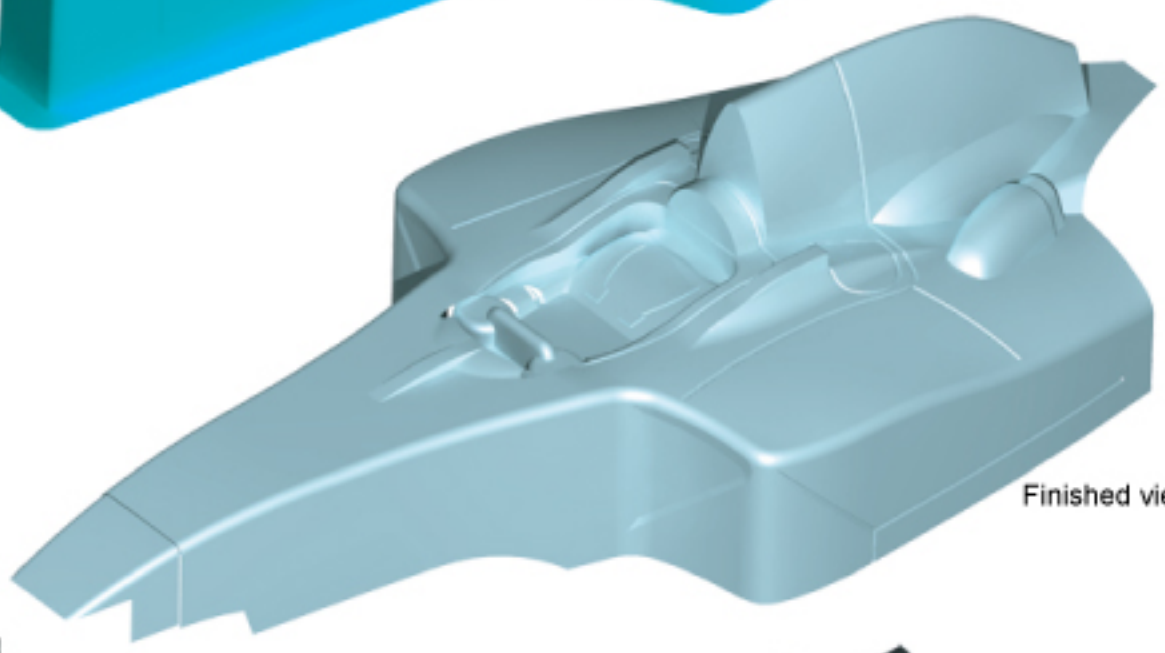


Finished view

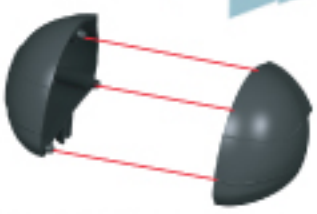
Lexan main body



Cut off part



Finished view

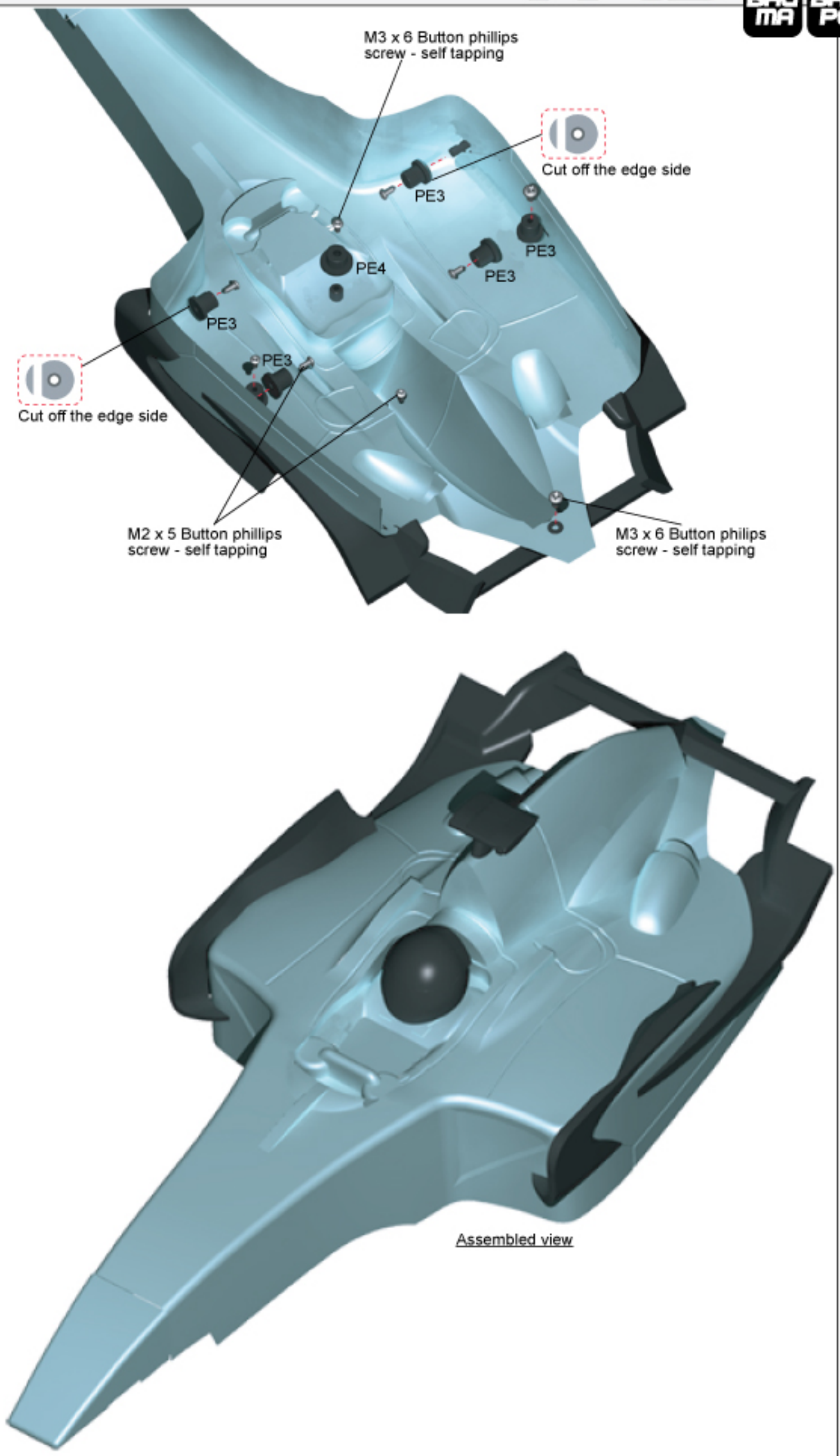


Apply some glue on the plastic parts

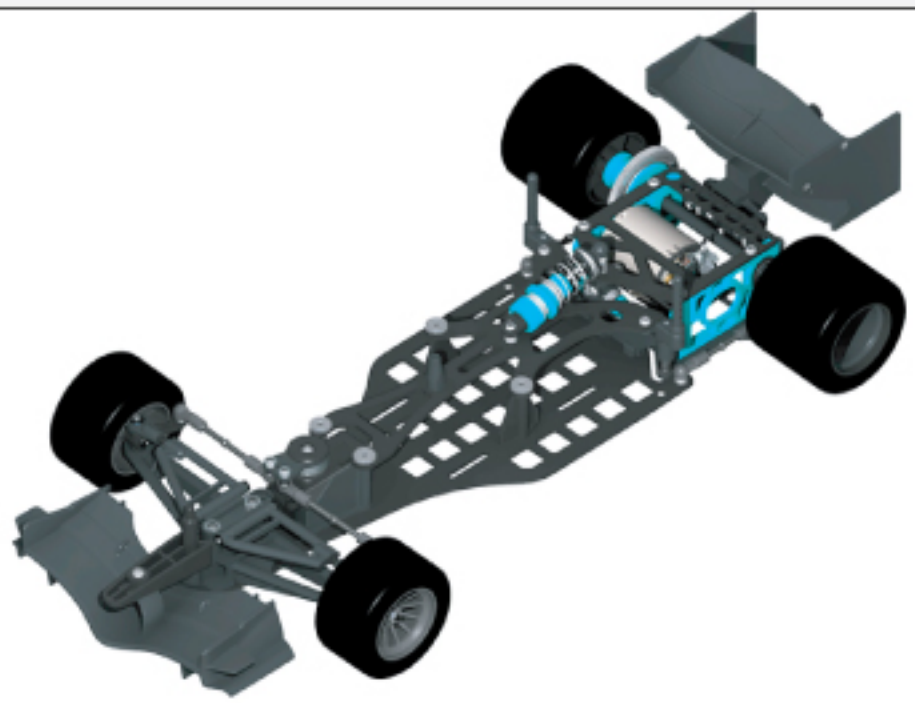
Pre-marked hole, we recommend that you drill the body hole using our Body Reamer(#TR-190002)

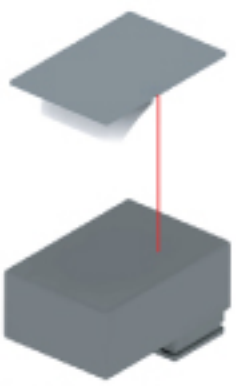
23. ASSEMBLE WITH LEXAN CAR BODY

- M2 x 5 Button phillips screw - self tapping X 7pcs
- M3 x 6 Button phillips screw - self tapping X 2pcs
- PE3 - Plastic adaptor X 6pcs
- PE4 - Plastic adaptor

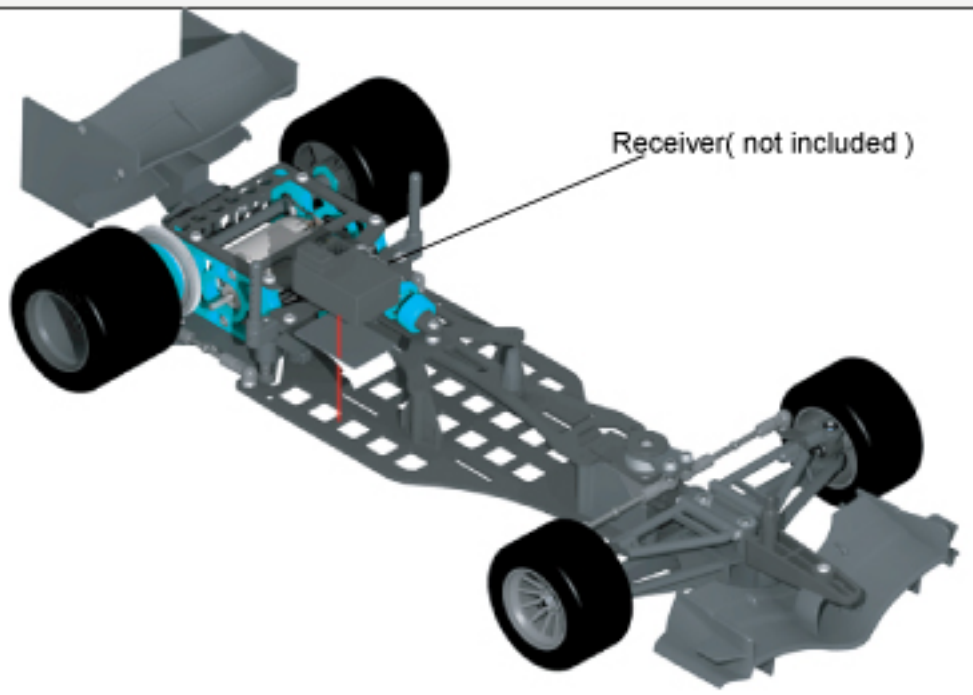


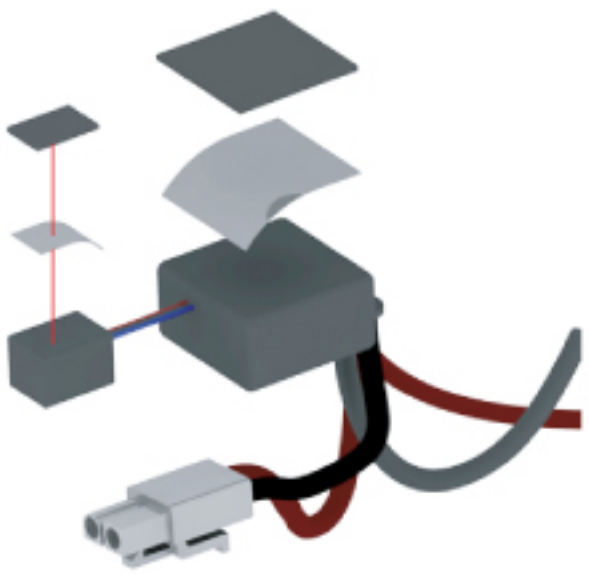
Assembled view



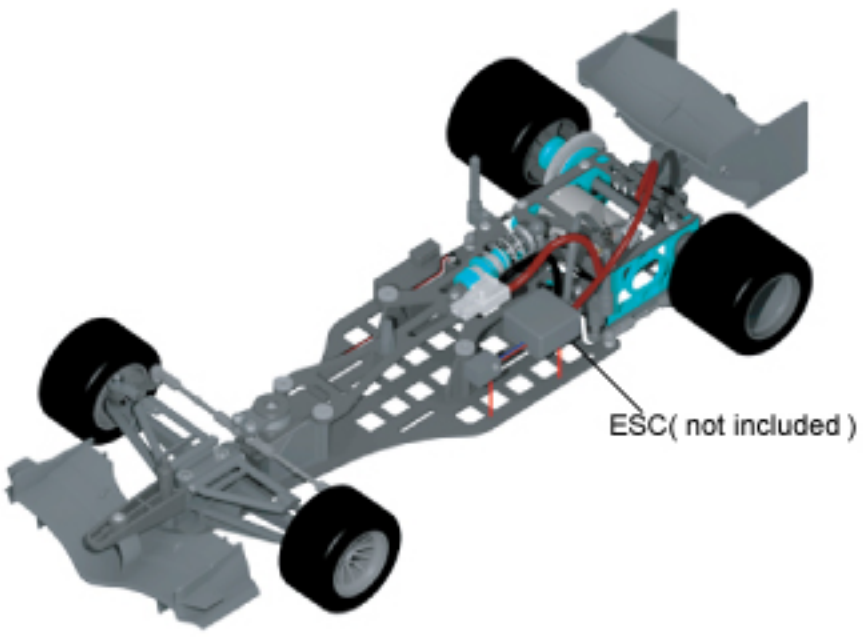


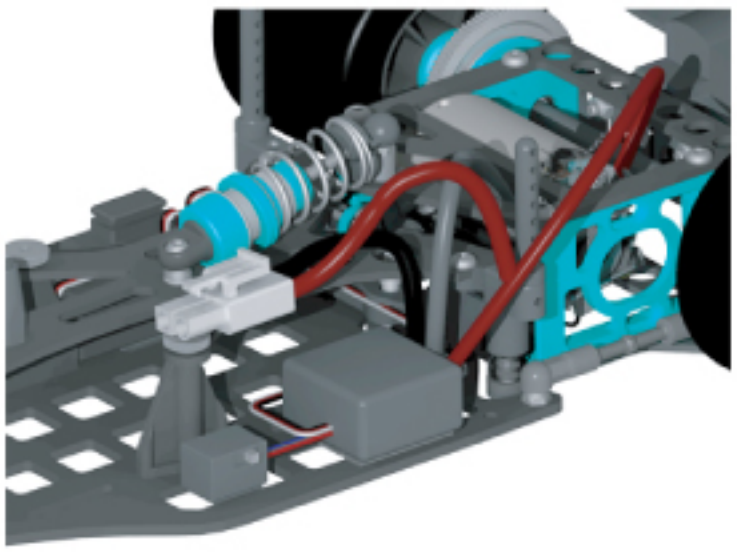
Stick the double-side tape on the bottom of the receiver

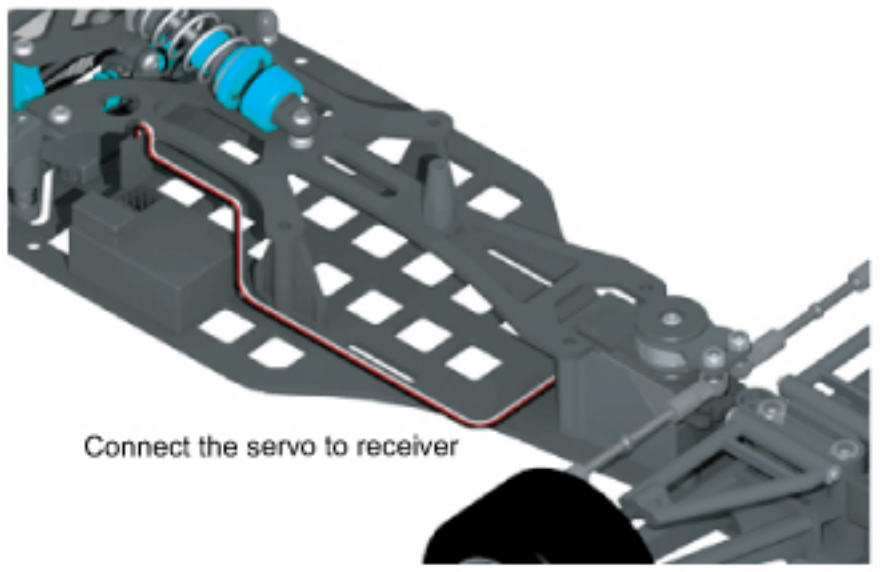




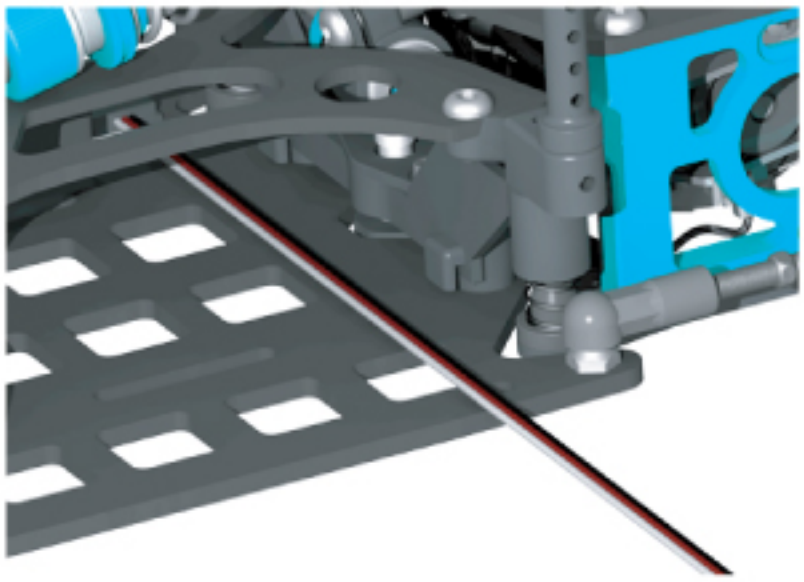
Stick the double-side tape on the bottom of the ESC

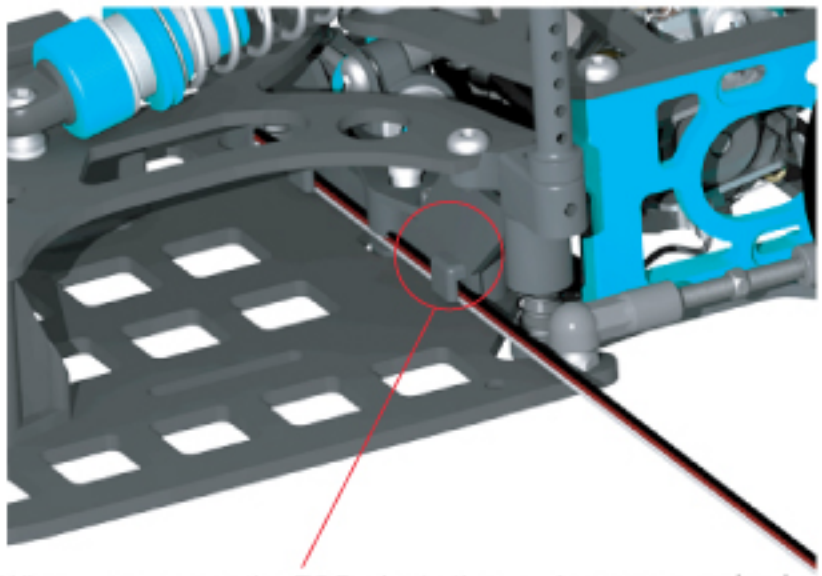




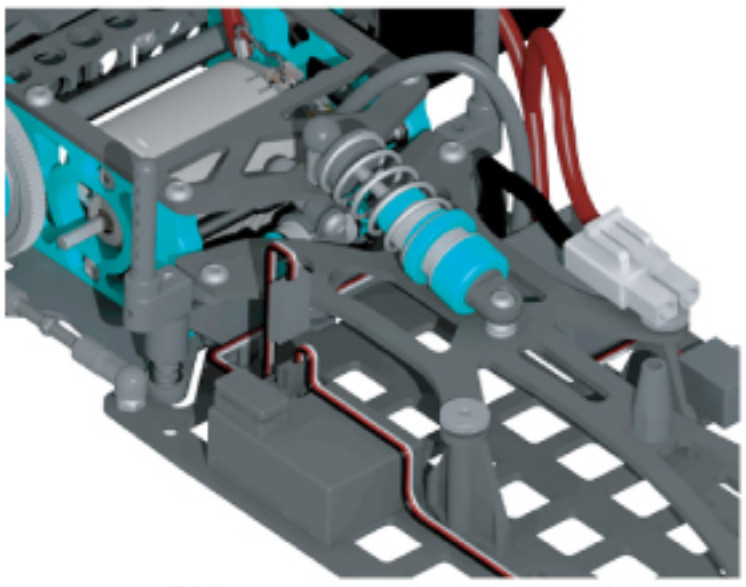


Connect the servo to receiver

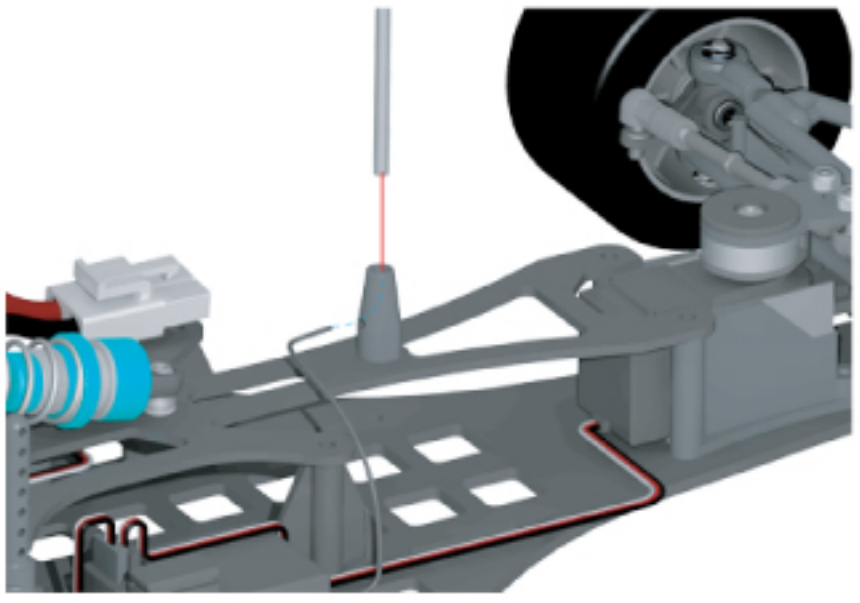




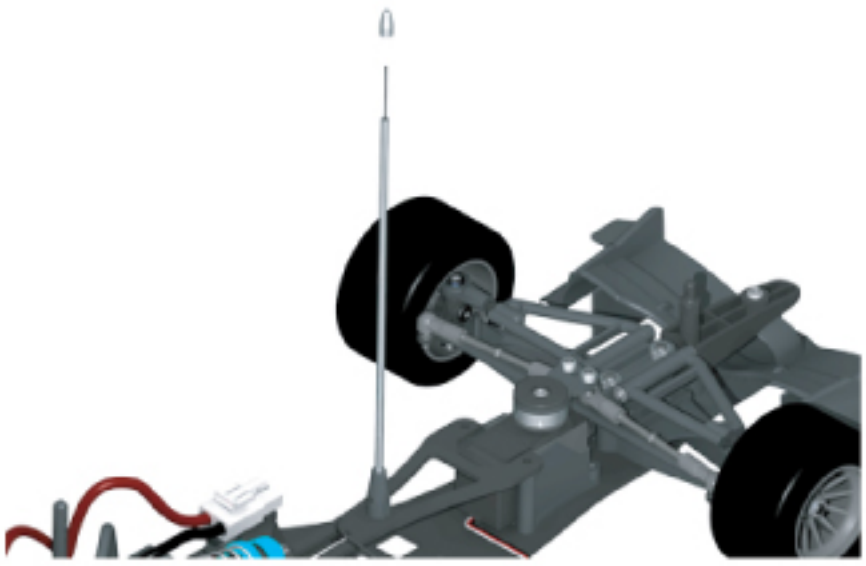
When you connect the ESC wire to the receiver, you may hooks the ESC wire on the edge of center mount.



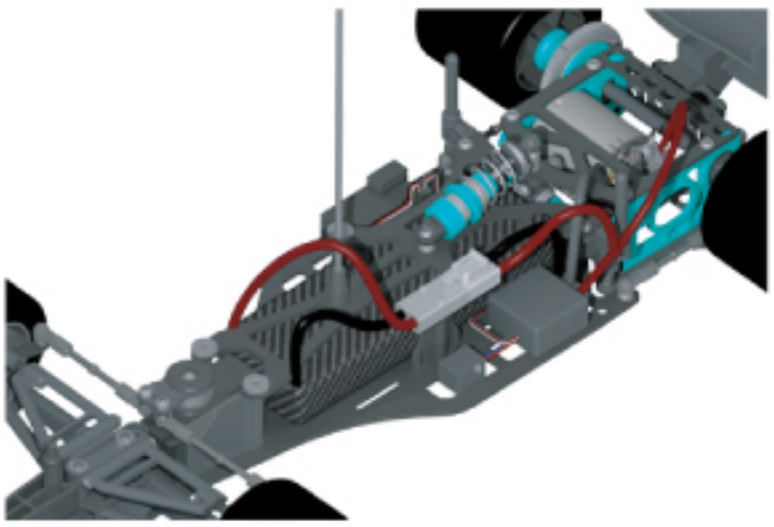
Connect the ESC wire with the receiver channel plug



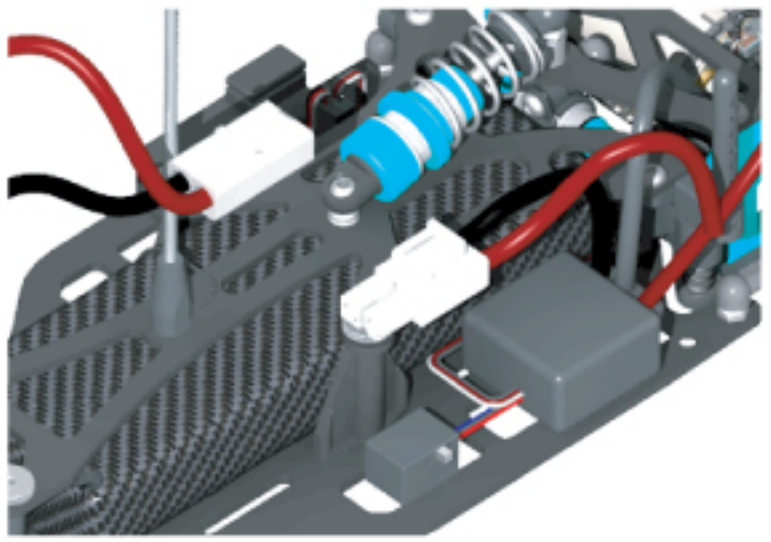
Connect the antenna wire through antenna post mount to the tube.

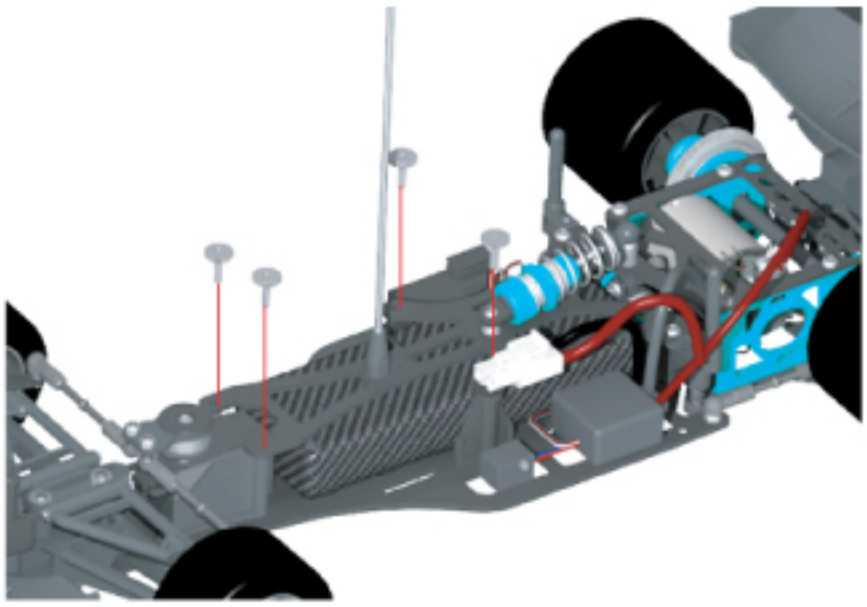


Add the antenna tube cover

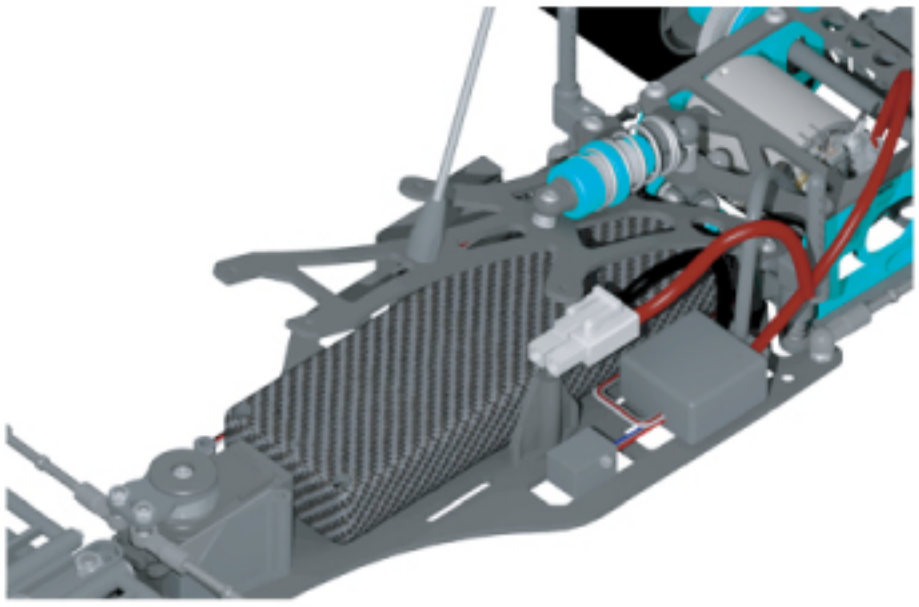


How to change a battery:
For use on low profile servo, you can change the battery by unlocking off the quick change battery lock nut. First of all, remove the battery plug

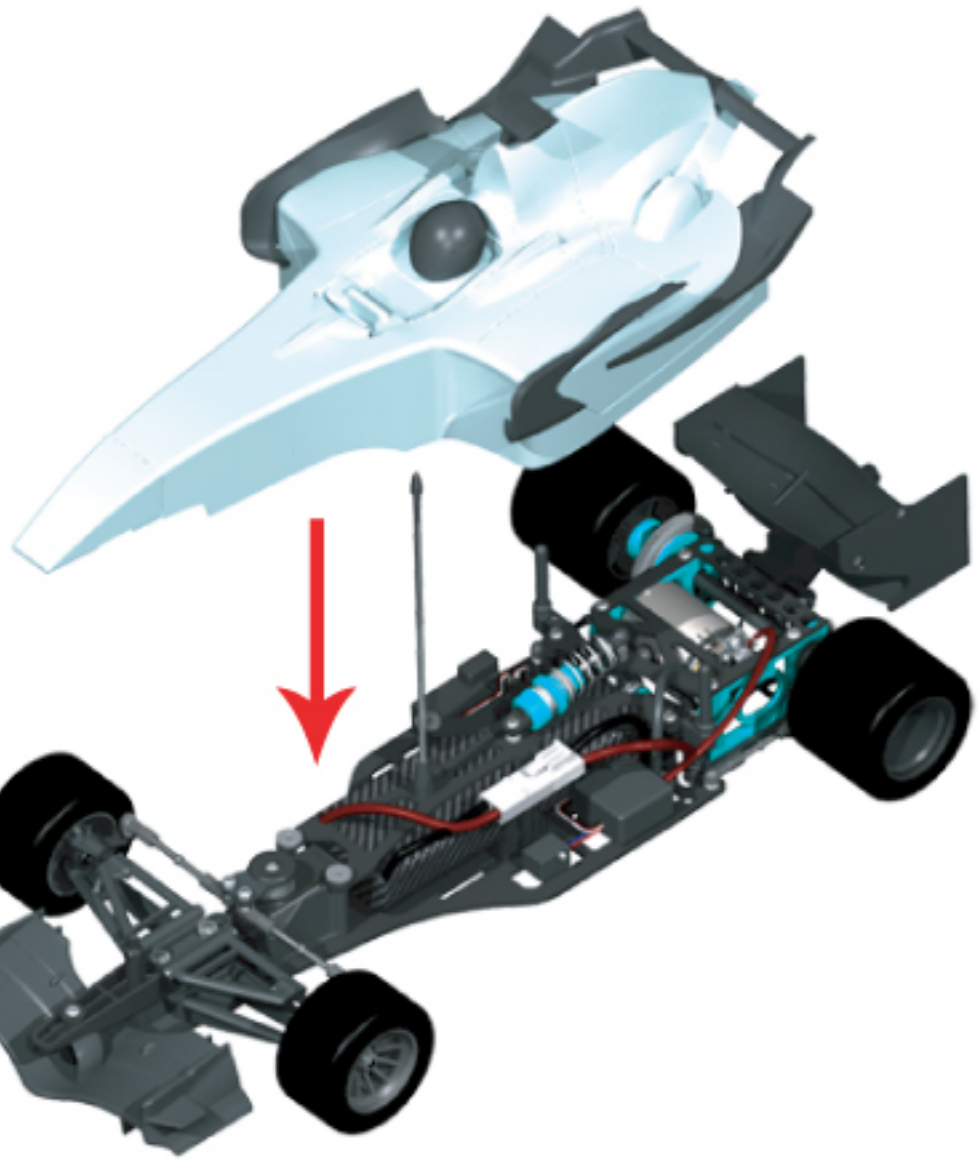


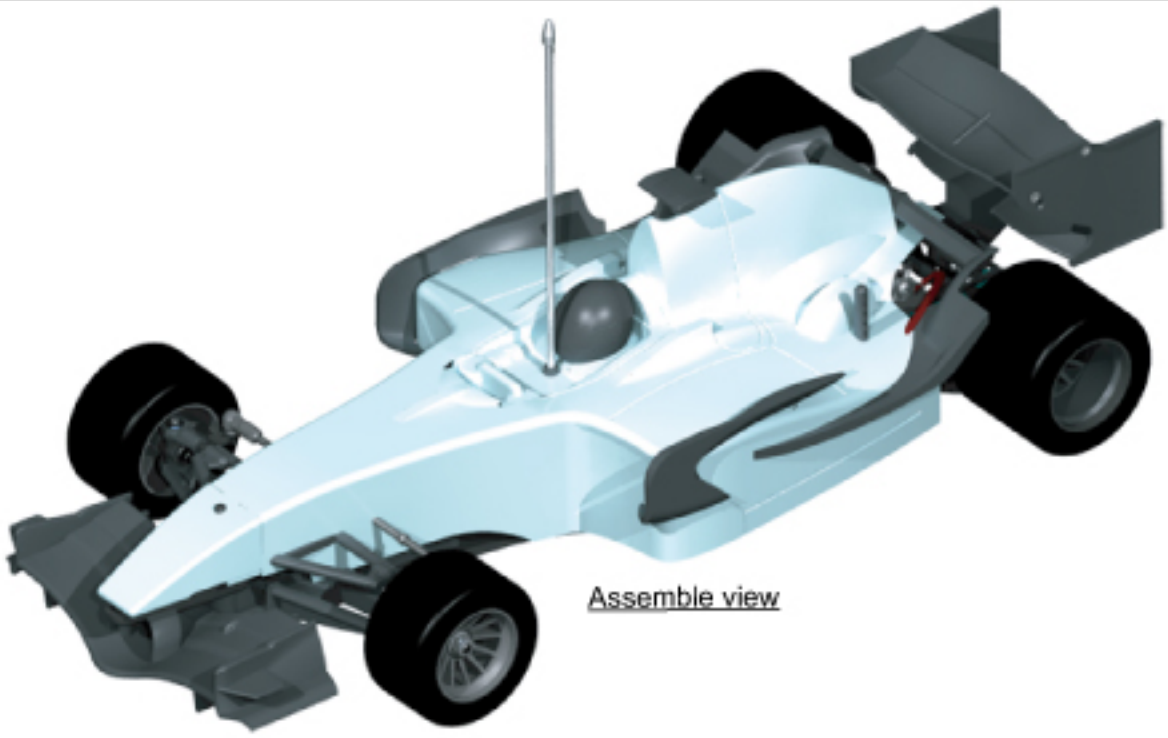


Then remove the battery nuts.



Finally, pull up the upper deck and remove / insert battery as needed to suitable angle.



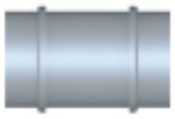


Assemble view

F1-09

BAG 3


Rolling damper cover X 2pcs


Rolling damper body X 1pc


M2 X 48 Shock shaft X 1pc


Shock collar X 2pcs


Damper piston (1 hole) X 1pc


Damper piston (2 holes) X 1pc

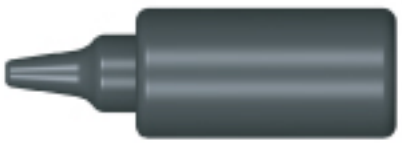

Damper piston (3 holes) X 1pc


O-ring M6 X 1 X 2pcs

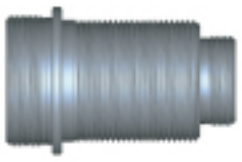

Damper ring locker X 2pcs


O-ring M1.8 X 1 X 4pcs


E-ring M2 X 1.5 X 0.35 X 2pcs


SO1
SILICON OIL For main damper


M3 X 28 Shock shaft X 1pc


Oil damper body X 1pc


Aluminium adjust ring X 1pc


Upper cover X 1pc


Bottom cap X 1pc


E-ring M6 X 2.5 X 0.4mm X 2pcs


Damper piston(3 Holes) X 1pc


Damper piston(2 Holes) X 1pc


SO2
SILICON OIL For rolling damper


Plastic spacer X 1pc


O-ring M2.8 X 1.8 X 1pc


O-ring cover X 1pc


Shock silicon cap X 1pc


M1.3 X 13 X 26 T7 Spring X 1pc


O-ring M11.5 X 1.5 X 1pc


Damper top plastic cap X 1pc


M4.8 X 10.2 Ball cap X 1pc

BAG 3


Front rim




Rear rim



BAG PA


M4 Nut X 2pcs


M4 Flange nut X 4pcs


Battery lock X 4pcs


M3 Nut X 4pcs

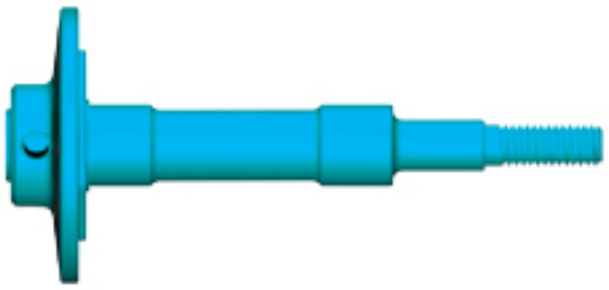
Servo spring - gold X 2pcs


Servo spring - silver X 1pc

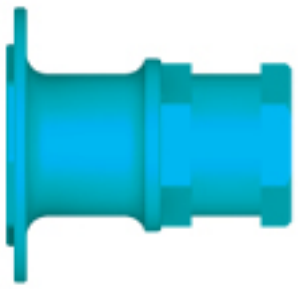
BAG MB



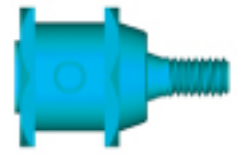
98T Gear differential



Differential housing shaft



Differential housing



Wheel hub



M5 X 11 Disk spring X 2pcs



1/8" Steel ball X 8pcs



M11 Differential spacer spring



Trust washer X 2pcs



Ball thrust bearing

F5-11G



M27 Differential spacer X 2pcs



DG1
DIFF. GREASE
For diff. spacer



DG2
DIFF. GREASE
1/8" steel ball



Fiber glass main shaft

BAG 1

BAG 2



Aluminium motor mount-L



Aluminium motor mount-R



Double side stick tape

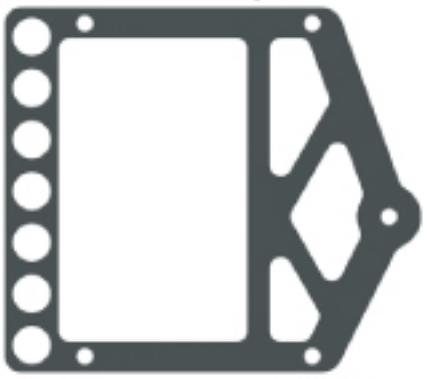




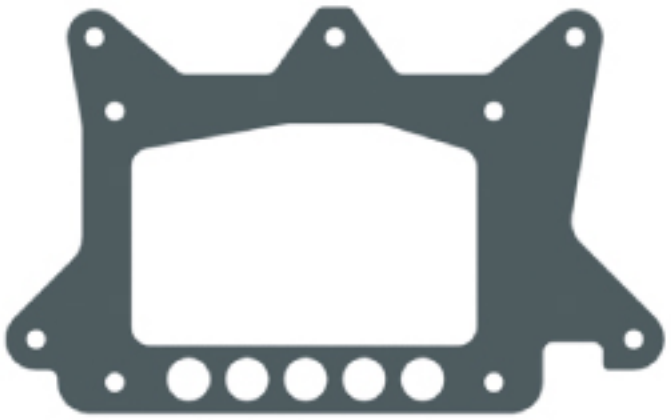
Fiber glass motor mount rear plate



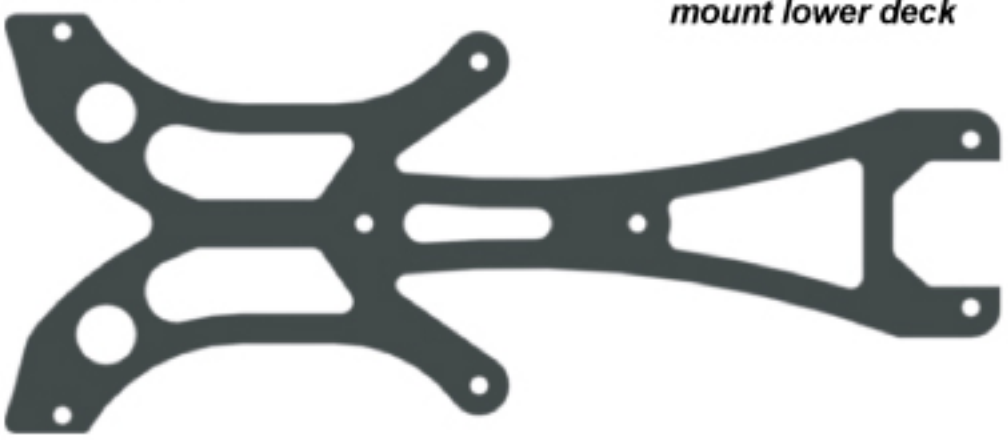
Rolling shaft



Fiber glass motor mount upper deck



Fiber glass motor mount lower deck



Fiber glass upper deck

Fiber glass lower deck



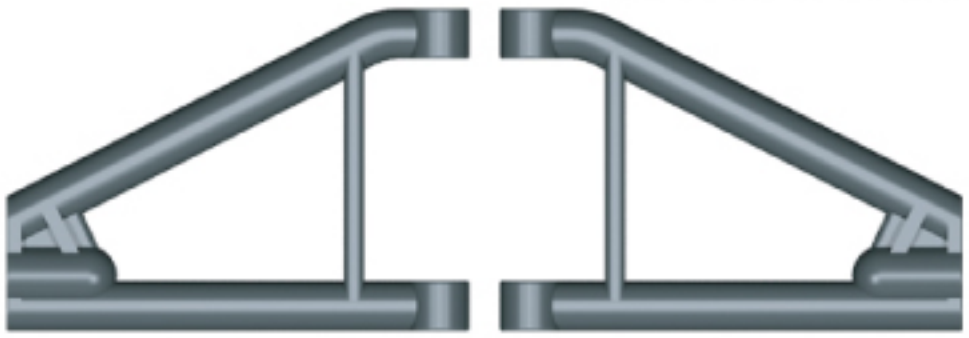
Plastic antenna



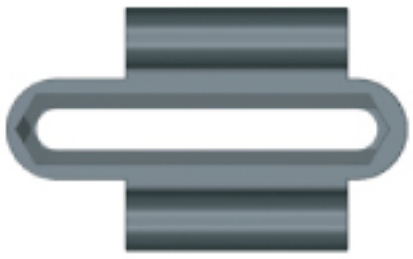
Main lower suspension mount



Front suspension ball end X 2pcs



Front upper suspension



Front upper castor mount



Front down castor mount



M3 X 27.3 Pin X 2pcs



M2.6 X 35.4 Pin X 2pcs



E-ring M6 X 2.5 X 0.4 X 4pcs



E-ring M2 X 4pcs



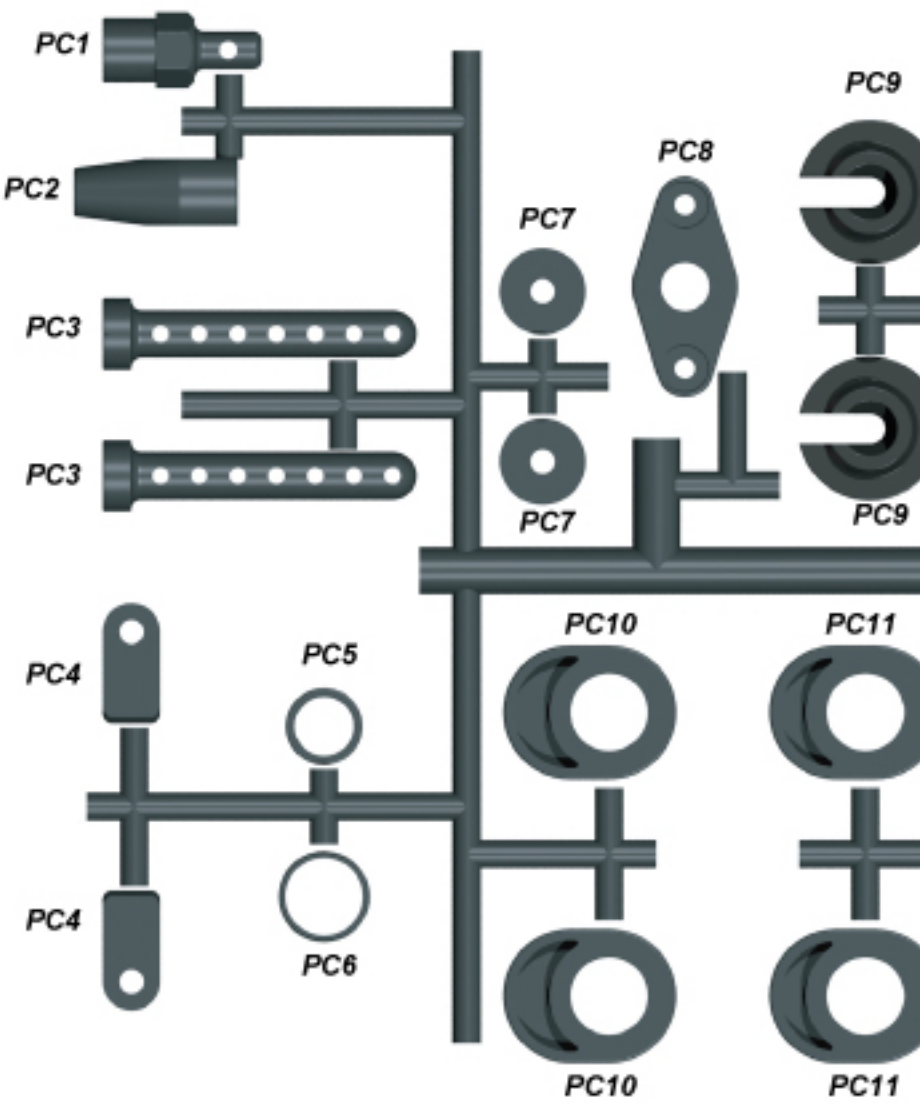
Knucle arm shaft X 2pcs



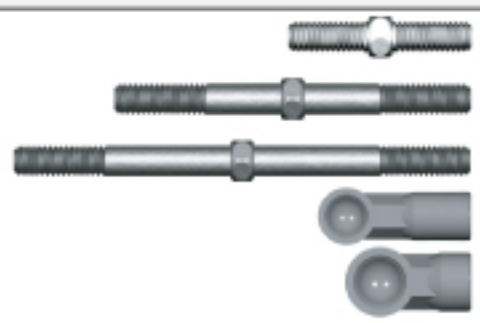
M0.4 X 4.5 x 6.5 T5 Spring X 2pcs

BAG PB

BAG PC



PC1 - Front body post
PC2 - Antenna post
PC3 - Body post
PC4 - Battery arm
PC5 - Axle tube
PC6 - M8 x 9.5 x 4 Gear ring
PC7 - Bottom spring holder
PC8 - Ball mount cover
PC9 - Shock spring base cover 13mm
PC10 - Axle up and down spacer - 2 deg
PC11 - Axle up and down spacer - 1 deg
PC12 - Axle up and down spacer - 0 deg



M3 X 18 Turnbuckle X 2pcs

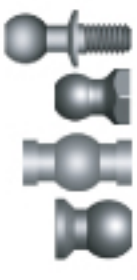
M3 X 35 Turnbuckle X 2pcs

M3 X 45 Turnbuckle X 2pcs

4.8mm X 15mm Ball cap X 8pcs

4.8mm X 9mm Ball cap X 1pc

BAG ME



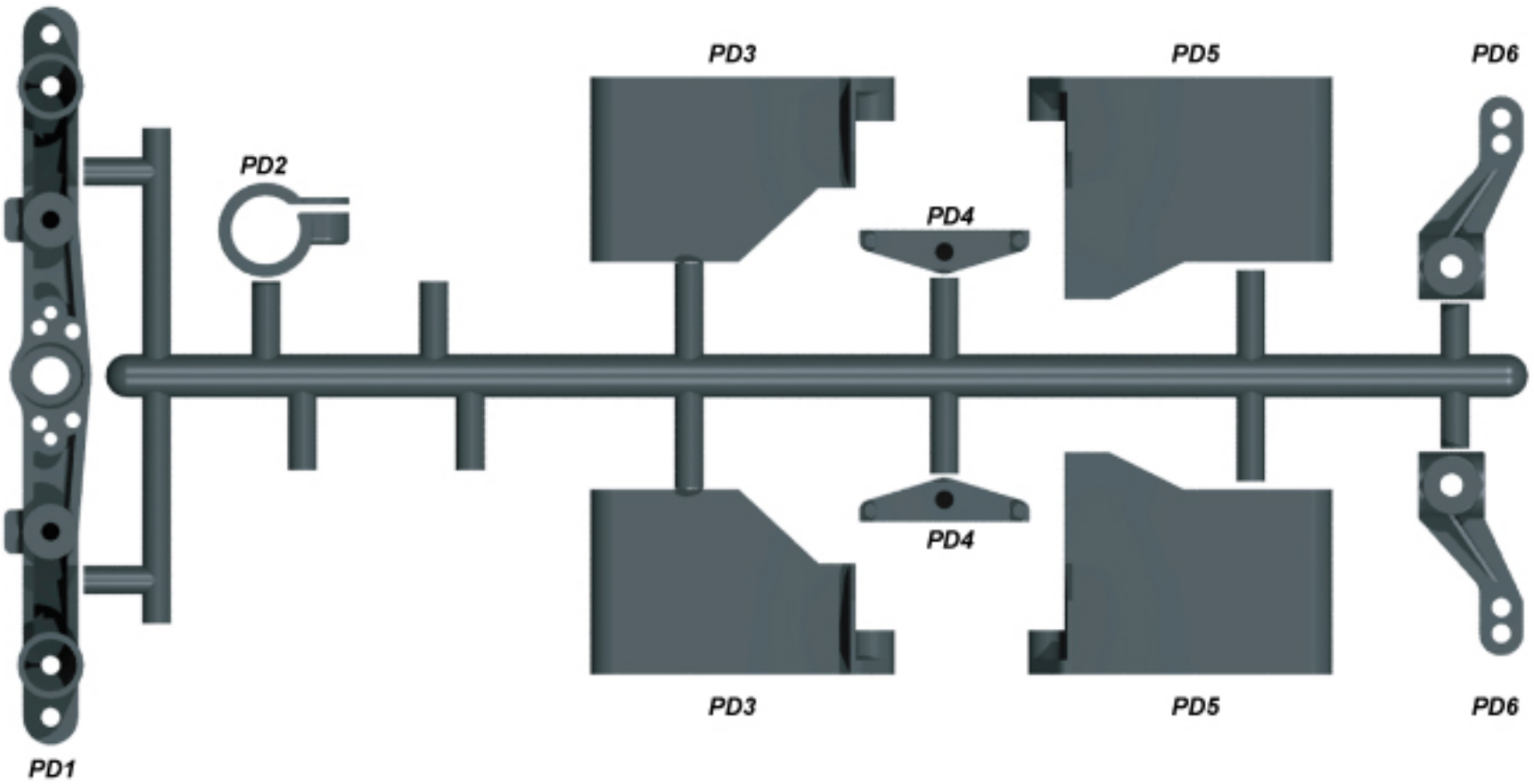
4.8mm Ball stud X 5pcs

4.7mm Ball stud X 5pcs

M5.9 Swing ball X 1pc

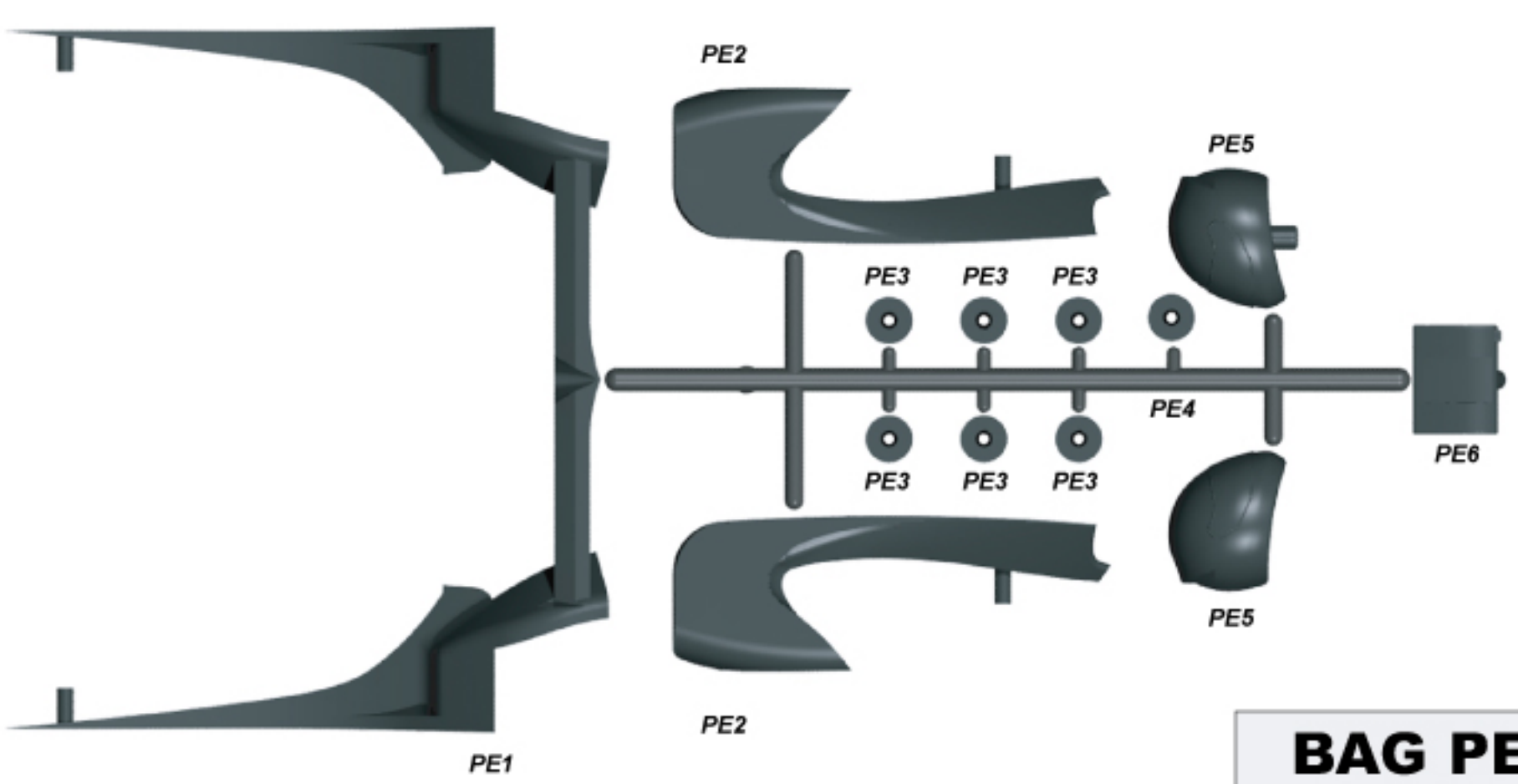
M5.8 Ball stud X 1pc

BAG MC

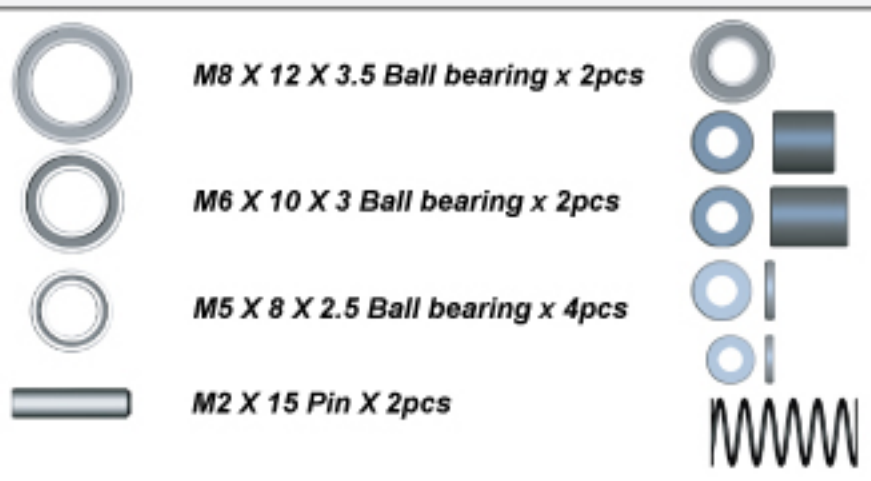


PD1 - Ball mount
PD2 - Rolling damper holder
PD3 - Low profile servo mount
PD4 - Upper deck post
PD5 - Upper deck post
PD6 - Knucle arm

BAG PD



BAG PE

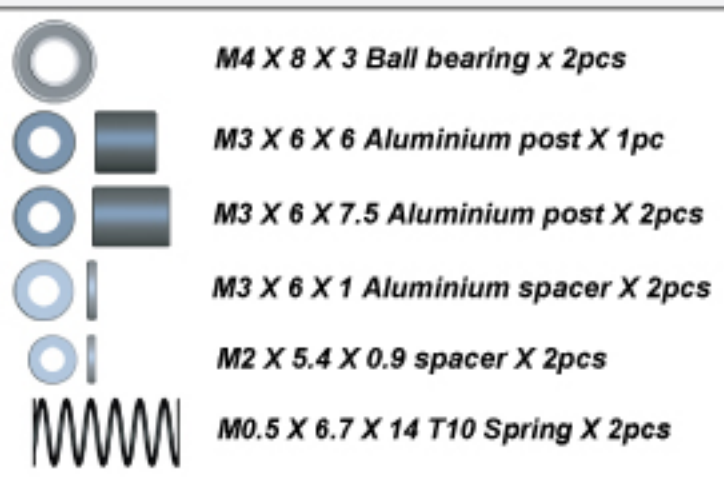


M8 X 12 X 3.5 Ball bearing x 2pcs

M6 X 10 X 3 Ball bearing x 2pcs

M5 X 8 X 2.5 Ball bearing x 4pcs

M2 X 15 Pin X 2pcs



M4 X 8 X 3 Ball bearing x 2pcs

M3 X 6 X 6 Aluminium post X 1pc

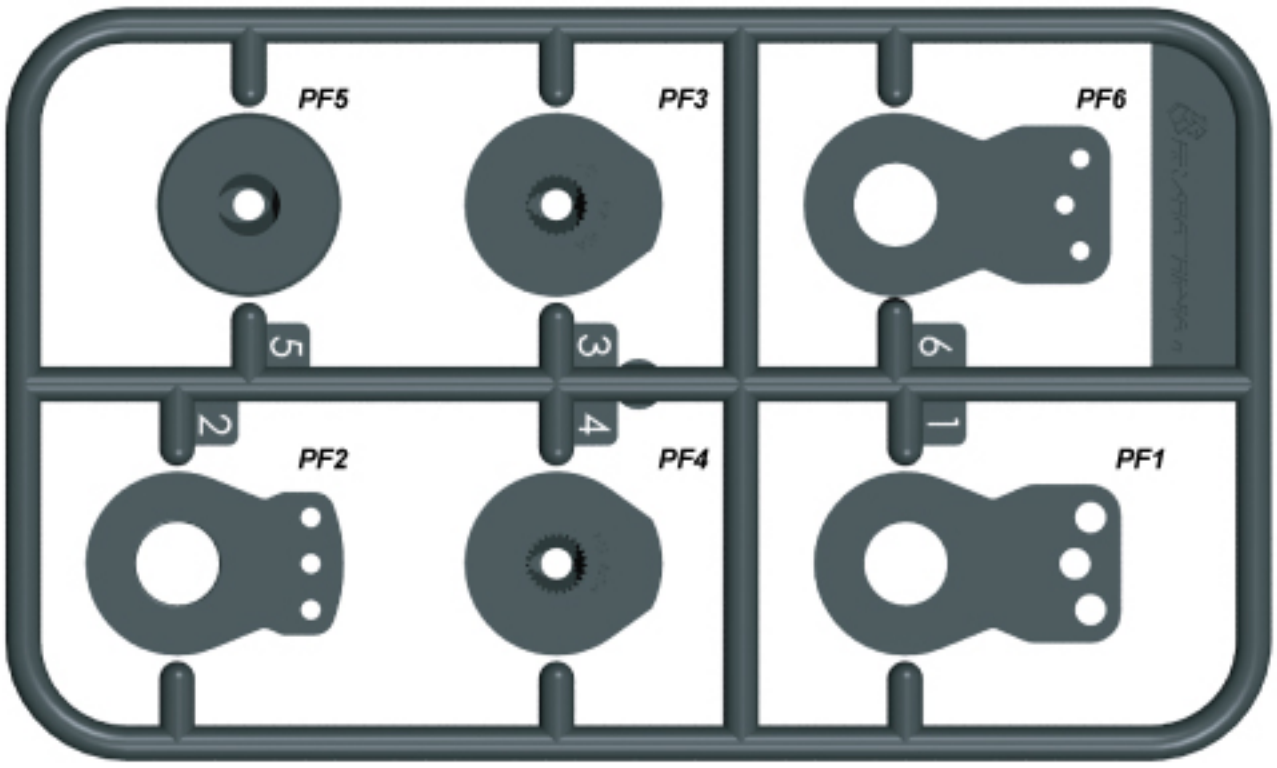
M3 X 6 X 7.5 Aluminium post X 2pcs

M3 X 6 X 1 Aluminium spacer X 2pcs

M2 X 5.4 X 0.9 spacer X 2pcs

M0.5 X 6.7 X 14 T10 Spring X 2pcs

BAG MD



PF1 - 3mm Servo horn
PF2 - 2mm Lower servo horn
PF3 - Servo Saver for FUTABA
PF4 - Servo Saver for KO / SANWA
PF5 - Servo Saver cover
PF6 - 2mm Lower servo horn

BAG PF

BAG PG



Front wing main body



Front wing mount





Front wing upper mount



Rear wing main body



Rear wing part



M2 X 6 Flat head phillips screw - machine X 4pcs



M2 X 6 Socket head screw - machine X 4pcs



M3 X 6 Button screw - machine X 12pcs



M3 X 8 Button screw - machine X 4pcs



M3 X 10 Button screw - machine X 1pc



M3 X 16 Button screw - machine X 2pcs



M3 X 10 Button head phillips screw - self tapping X 1pc



M3 X 12 Button head phillips screw - self tapping X 2pcs



M2 X 5 Button head phillips screw - self tapping X 7pcs



M3 X 8 Flat head screw - machine X 20pcs



M3 X 12 Flat head screw - machine X 2pcs



M4 X 30 Flat head screw - machine X 2pcs



M3 X 3 Set screw X 4pcs



M3 X 12 Set screw X 2pcs



M2.6 X 10 Button head phillips screw - machine X 1pc



M3 X 10 Button head phillips screw - machine X 1pc



M3 X 20 Button head phillips screw - self tapping X 1pc



M3 X 6 Button head phillips screw - self tapping X 2pcs

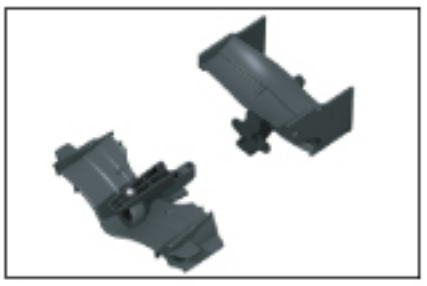
BAG MA



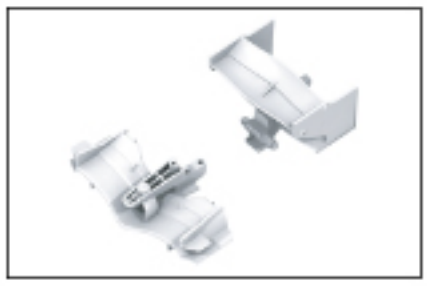
WH-29FFO/BL
Front Foam Tyre And Rim Set



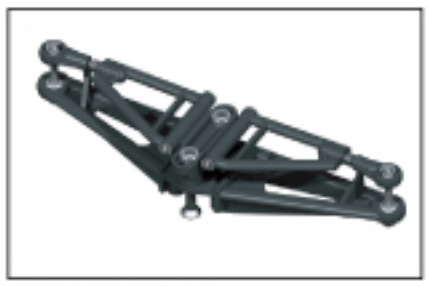
WH-29RFO/BL
Rear Foam Tyre And Rim Set



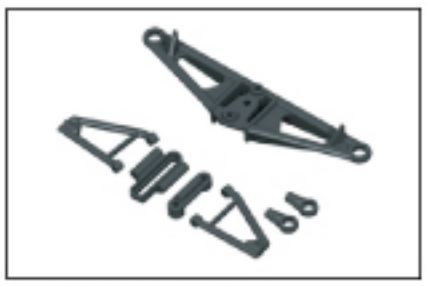
F103RM-12/BL
Front And Rear Wing Set - High Downforce - Black



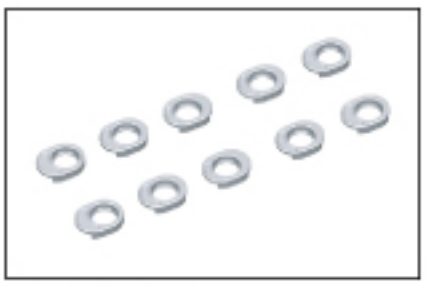
F103RM-12/WI
Front And Rear Wing Set - High Downforce - White



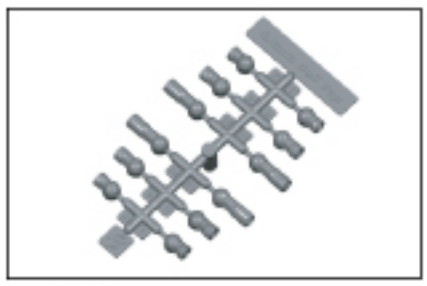
F103RM-10
Front Suspension



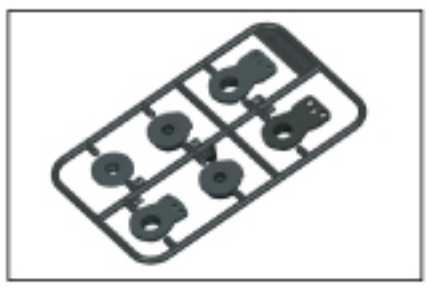
F103RM-10RK
Front Suspension Plastic Part



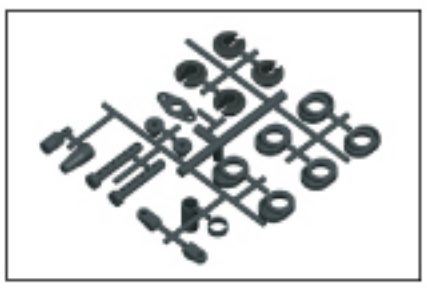
F103RM-03
Rear Axle Up & Down Offset Spacer



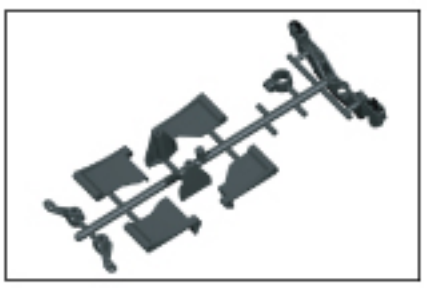
TT01-22
4.8mm Ball Cap



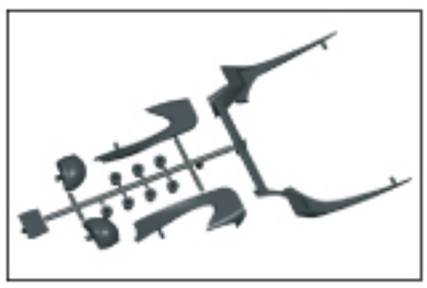
3RAC-SHAMU
Plastic Servo Saver Set



F109-01
Plastic Parts - Part A



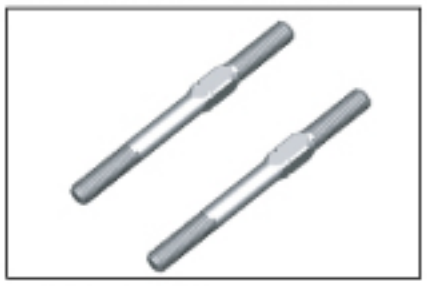
F109-02
Plastic Parts - Part B



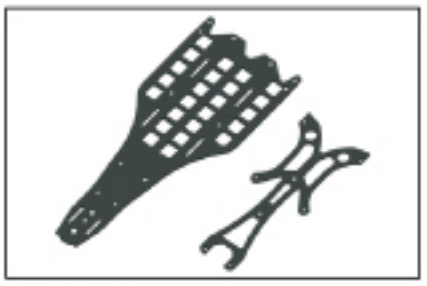
BDY-F109RK
Plastic Parts - Part C



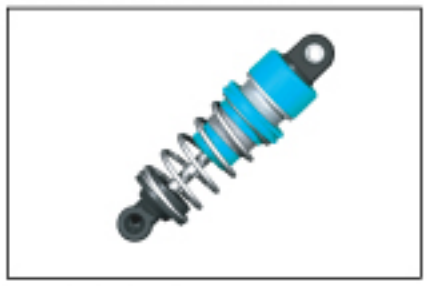
3RAC-TR345
64 Titanium 3mm Turnbuckle - 45mm(2 Pcs)



3RAC-TR335
64 Titanium 3mm Turnbuckle - 35mm(2 Pcs)



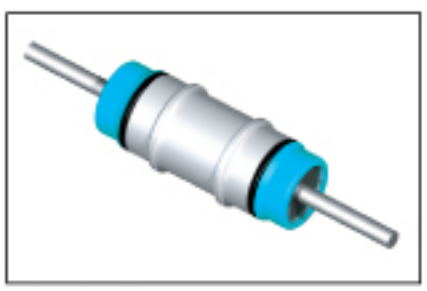
F109-03
Main Chassis And Upper Deck FRP Set



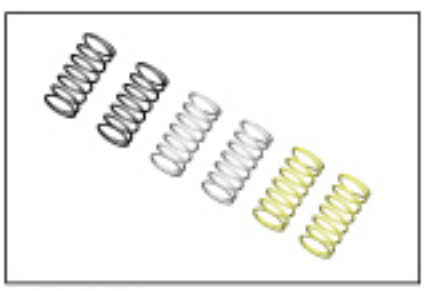
F109-04/LB
Aluminium Main Damper



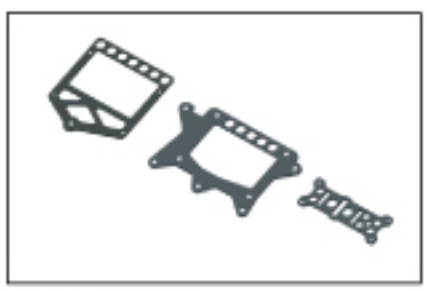
F109-04/RK
Rebuild Kit For F109 Chassis



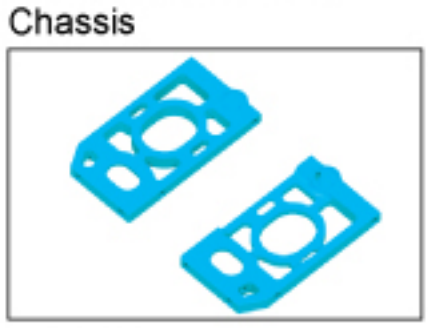
F109-05
Aluminium Center Rolling Damper



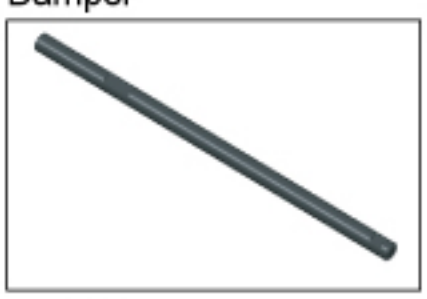
F109-06
Aluminium Center Mount Rolling Spring S/M/H



F109-07/WO
FRP Motor Plate



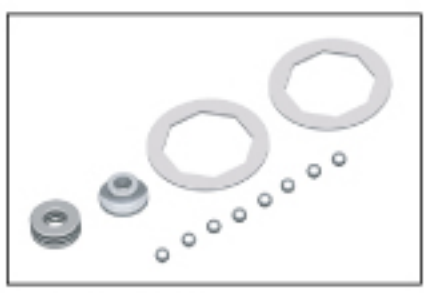
F109-08
Aluminium Motor Mount



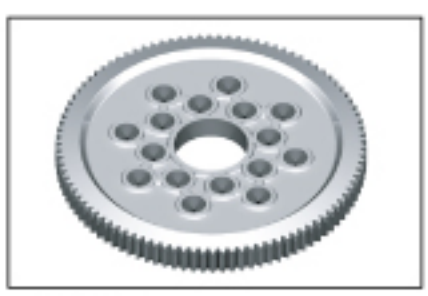
F109-09
Main Shaft - FRP



F109-10
Aluminium Diff. Housing



F109-10/RB
Rebuild Kit For #F109-11



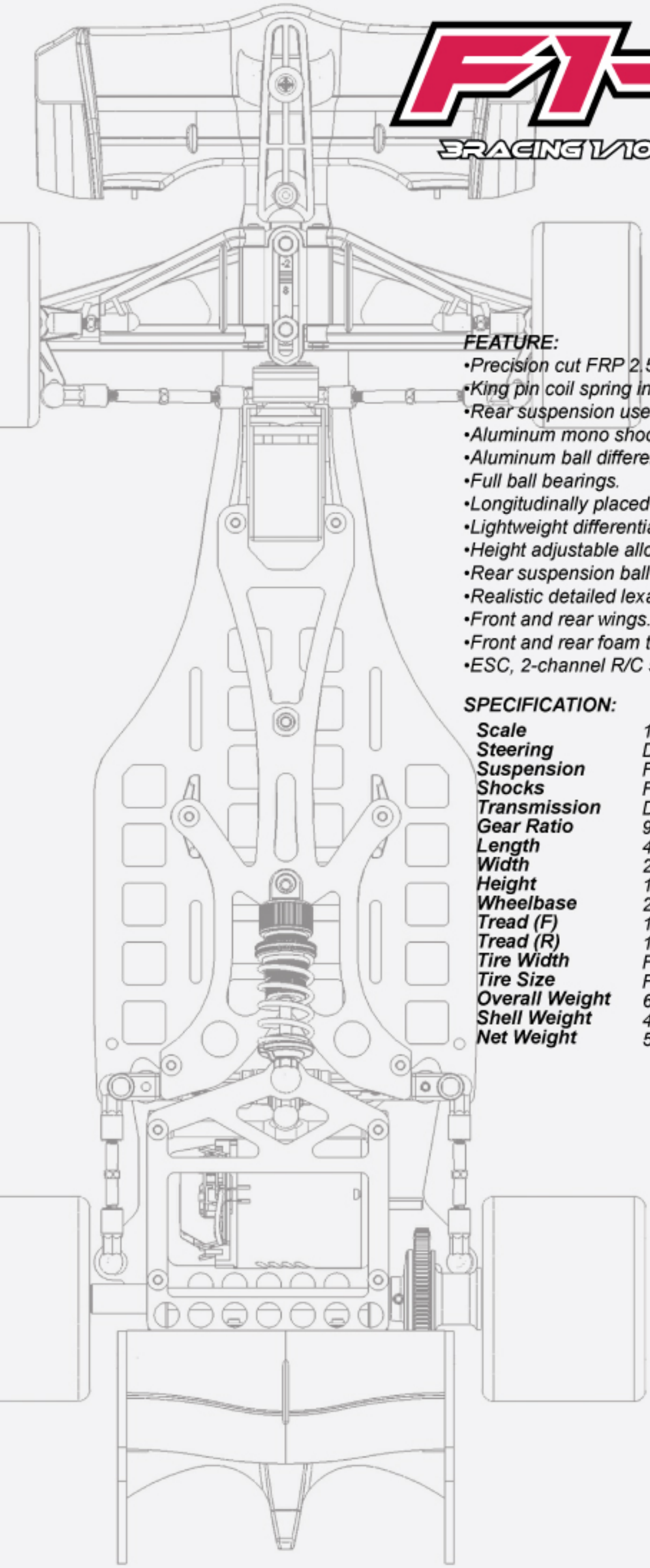
F109-11
98T Gear For F109



F109-12
Rolling Shaft

F1-09

3RACING 1/10 SCALE FORMULA-1 CHASSIS



FEATURE:

- *Precision cut FRP 2.5mm main chassis and 2.0mm upper desk.*
- *King pin coil spring independently front suspension.*
- *Rear suspension uses friction dampers and floating mono shock.*
- *Aluminum mono shock.*
- *Aluminum ball differential.*
- *Full ball bearings.*
- *Longitudinally placed servo (Isometric steering load applied).*
- *Lightweight differential joint.*
- *Height adjustable alloy gear case.*
- *Rear suspension ball mount.*
- *Realistic detailed lexan polycarbonate body.*
- *Front and rear wings.*
- *Front and rear foam tires and rims*
- *ESC, 2-channel R/C system, 7.2V battery and charger separately required.*

SPECIFICATION:

Scale	*1/10*
Steering	*Direct steering with servo saver*
Suspension	*Front king ping coil spring. Central shock*
Shocks	*Floating mono damper*
Transmission	*Direct drive 2WD*
Gear Ratio	*98/23*
Length	*435mm*
Width	*200mm*
Height	*101mm*
Wheelbase	*275mm*
Tread (F)	*155mm*
Tread (R)	*135mm*
Tire Width	*F 30mm; R 45mm*
Tire Size	*F 57mm; R 57mm*
Overall Weight	*610g*
Shell Weight	*42g*
Net Weight	*568g*

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