



INSTRUCTION MANUAL



PERFORMANCE FEATURES

- NEW DIFFERENTIAL HOUSING DESIGN ALLOWS FOR QUICK DIFFERENTIAL SWAPS / QUICK-ACCESS FRONT AND REAR DIFF DESIGN
- COVERED RECEIVER BOX AND ELECTRONICS MOUNTS
- NEWLY DESIGNED LOW-DRAG POLYCARBONATE (PC) BODYSHELL
- ANGLED BEVEL GEAR DESIGN IN FRONT AND REAR GEARBOXES FOR IMPROVED CENTER DOGBONE ALIGNMENT AND QUICKER ACCELERATION
- QUICK-RELEASE CENTER DIFF MOUNT FOR FAST DIFFERENTIAL ADJUSTMENT
- EQUIPPED WITH 17MM ANTI-LOOSENING HEX WHEEL NUTS
- ONE-PIECE WING MOUNT REDUCES DEFORMATION
- HIGH-STIFFNESS SHOCK SPRINGS
- NEW RECEIVER BOX DESIGN ALLOWS TRANSPONDER TO BE CONCEALED
- FRONT CASTER ANGLE ADJUSTABLE BLOCK FOR QUICK CASTER ANGLE ADJUSTMENT
- LIGHTWEIGHT FRONT, REAR AND CENTER DIFFERENTIALS

OFF ROAD ELECTRIC BUGGY

1/8 HIGH PERFORMANCE

- COMPLETE SET OF LIGHTWEIGHT OUTDRIVES
- 7075 CNC 5MM ALUMINIUM FRONT AND REAR SHOCK TOWERS
- 7075 CNC ARM HOLDER AND TOE PLATE
- 7075 3MM LIGHTENED CHASSIS WITH COUNTERSUNK SCREWS
- BATTERY TRAYS ACCOMMODATE THE LATEST SHORTY AND MID-SIZE BATTERIES
- COMPLETE HIGH PERFORMANCE BEARING SET
- TWO-PIECE CNC ALUMINUM MOTOR MOUNT
- FRONT / REAR CHASSIS RESERVATION SPACE FOR COUNTER WEIGHT AT FRONT / REAR CHASSIS
- CNC MACHINED HARDENED 13 TOOTH BEVEL PINION GEAR
- CNC MACHINED HARDENED 43 TOOTH BEVEL GEAR
- 2.5MM CARBON FIBER CENTER UPPER PLATE

THIS IS NOT TOY !

- DO NOT USE WITH CHILDREN UNDER 16 YEARS OF AGE OR WITHOUT ADULT SUPERVISION.

KIT IN INSTRUCTION MANUAL MAY BE DIFFER FROM PICTURE SHOWN.
ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

CONTENTS

• REQUIRED FOR OPERATION	01
• INSTALLATION INSTRUCTION	02
• TIRES SETTING GUIDE	26
• SETUP SHEET	27
• SPARE PARTS LIST	28

WARNINGS

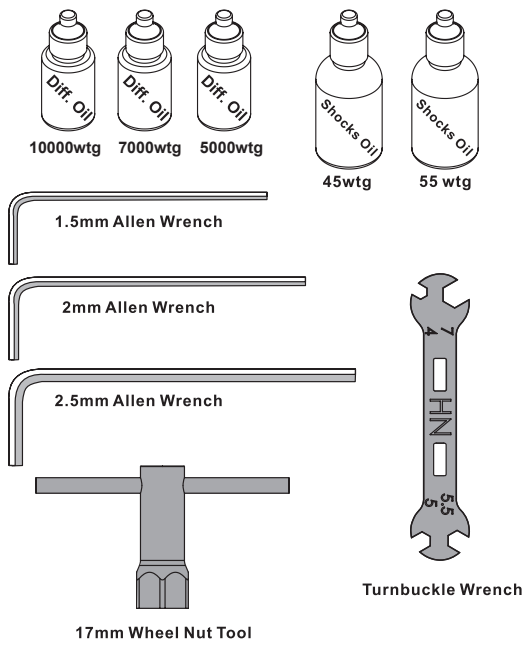
- This product is not intended for those under 14 years of age without proper adult supervision. The product is not a toy. It is a precision machine requiring proper assembly and setup to avoid accidents and it is the responsibility of the owner to operate this product in a safe manner as it can cause serious personal injury and damage to property due to carelessness or misuse.
- Operate this product within your ability. Do not operate under tired condition.
- Choose an appropriate operating site consisting of flat, smooth ground, and clear open field. Do not operate near buildings, high voltage cable lines, or trees to ensure safety operation. Operate in safe area only, away from other people. RC models are prone to accidents, failures, and crashes due to a variety of reasons including, lack of maintenance, user error, and radio interference. Users are responsible for their actions and damage or injury occurring during the operation.
- You should complete a successful pre-run check of your radio equipment and model prior to each run.

WARNING NOTES

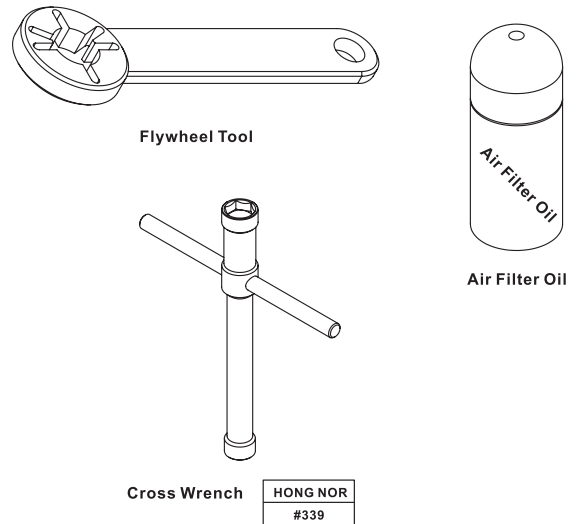
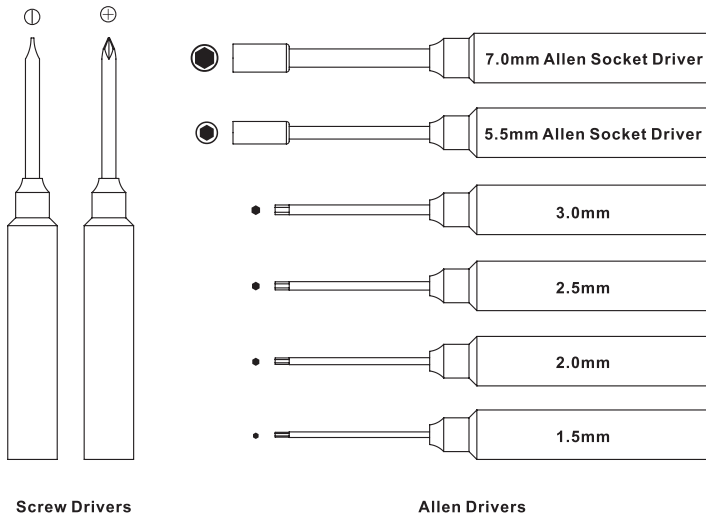
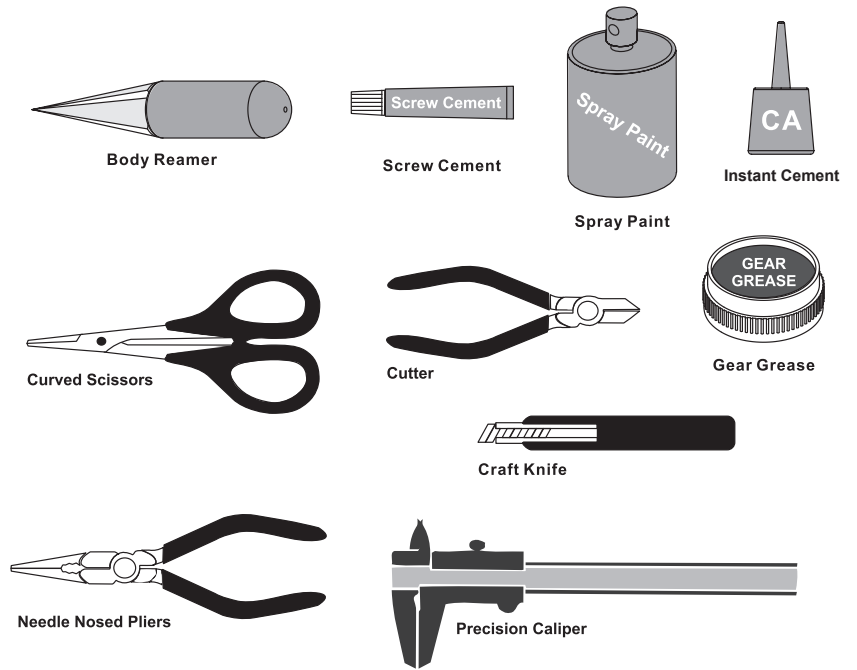
- Don't drive your model car when it raining or thundering to keep safety.
- Keep your model car in dry normal temperature condition, and keep away from water.
- Please do not use other optional parts to install our model car if you can not make sure it can match your car or not. And please do don't over load or or use it to do breaking local law.
- Please keep car away from fire as it was mostly made by plastic and electric material.
- If you are in doubt of your ability to operate the model, we strongly recommend that you seek assistance from experienced RC users or join your local modeling club to gain the required knowledge and skill. As the manufacture and distribution, we assume no liability for the use of this product.

REQUIRED FOR OPERATION

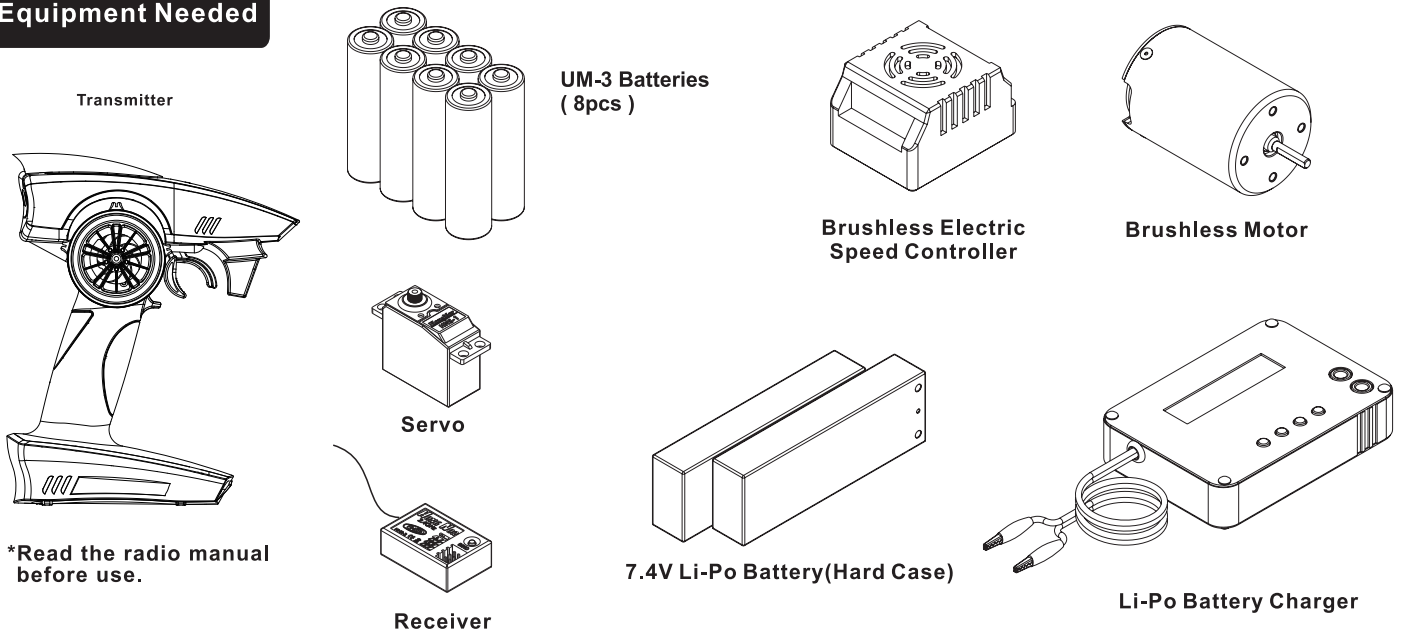
INCLUDED ITEMS



TOOLS NOT INCLUDED IN THE KIT



Equipment Needed



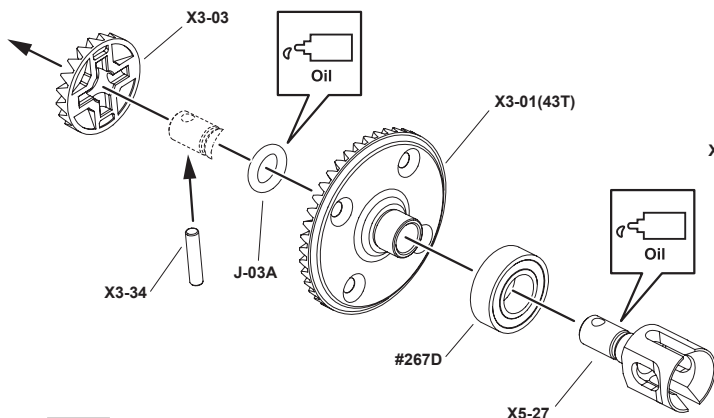
1 ASSEMBLY OF THE FRONT AND REAR DIFF.



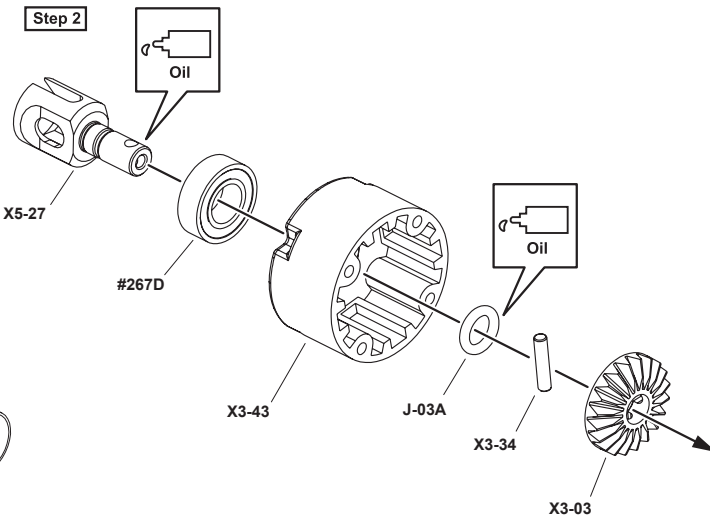
NO.1

Build two differentials for front and rear.

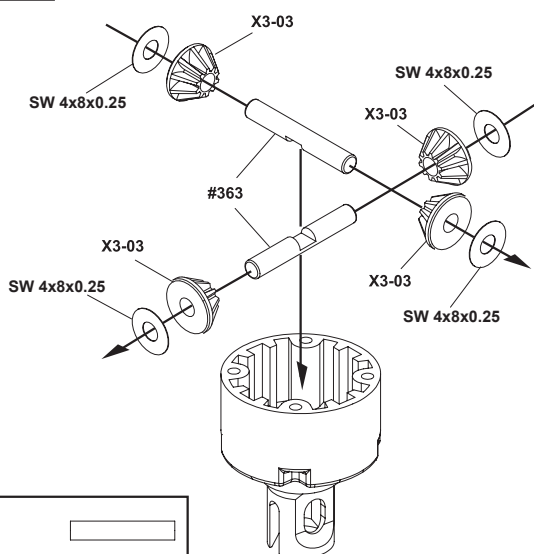
Step 1



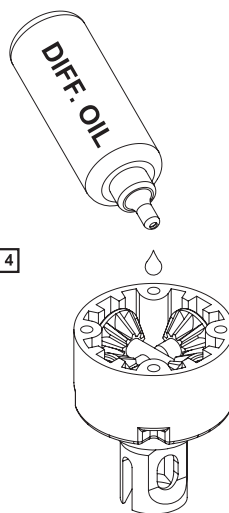
Step 2



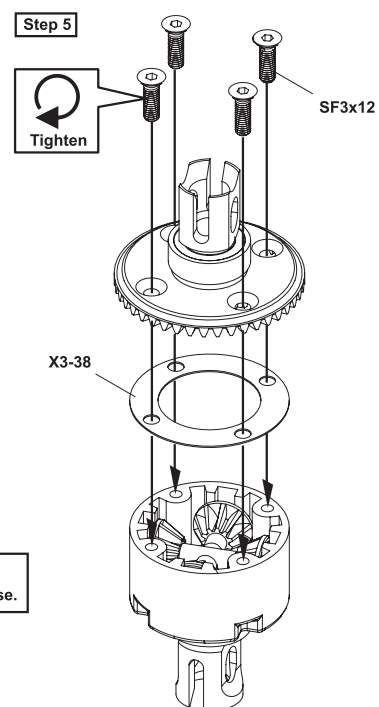
Step 3



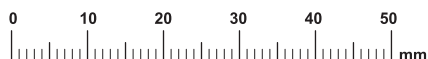
Step 4



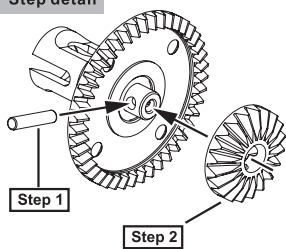
Step 5



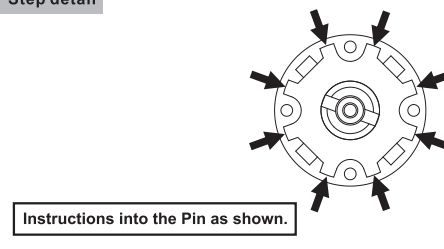
- Use the Diff. Oil #7000 for front and #5000 for rear.
- Use White Oil pen mark front diff. case and rear diff. case.



Step detail

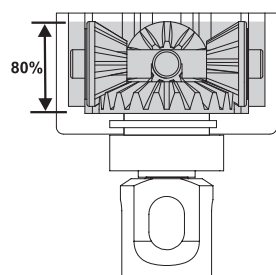


Step detail



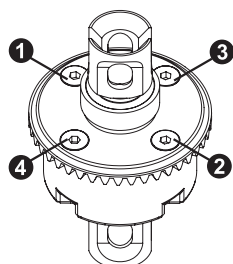
Step detail

Fill the diff oil just level with the top of the satellite gears.

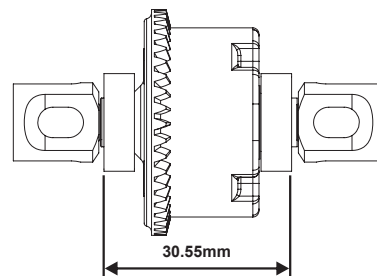


Step detail

Repeat tightening in this order



After assembly the differential should be 30.55 mm measured from the ends of the installed ball-bearings. If differential is longer, hold the bevel gear and retighten the 4 screws.



X3-34
2.5x11.8mm Pinx4

J-03A
P6 O-Ringx4

#267D
8x16x5mm
Ball Bearingx4

SW 4x8x0.25
4x8x0.25mm
Washerx8

#363
4mm Alum. Cross Pinx4

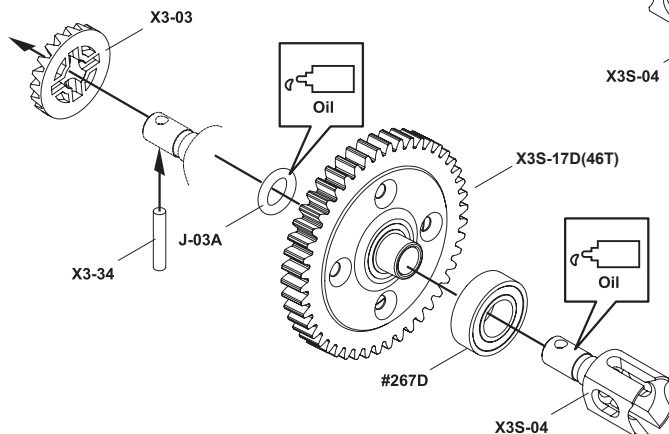
SF3x12mm
Flat Head Hex Screwx8

2 ASSEMBLY OF THE CENTER DIFF.

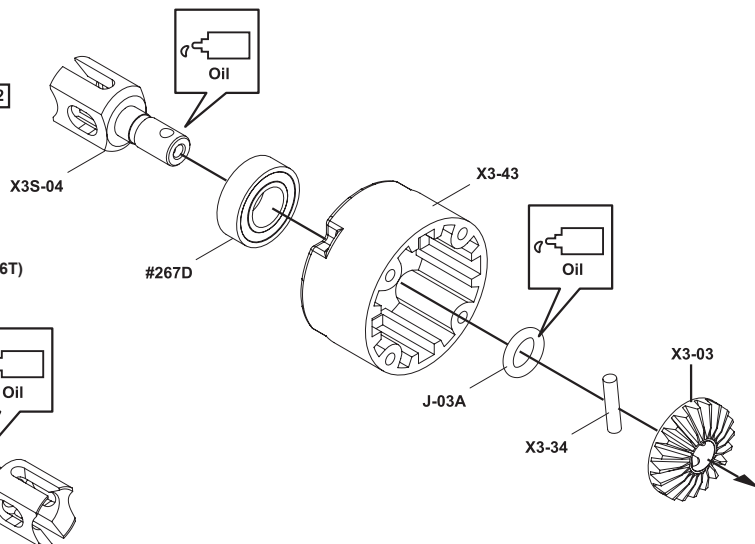


NO.1

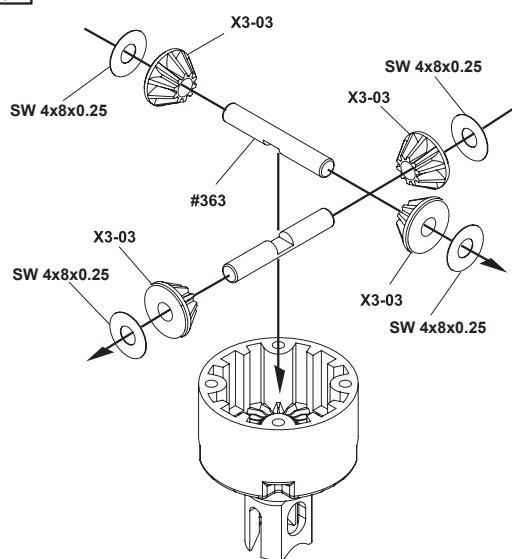
Step 1



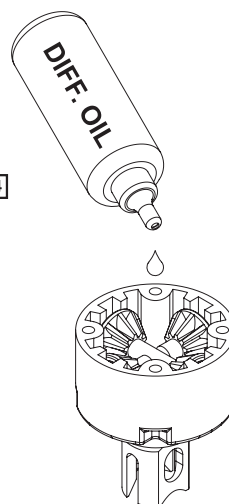
Step 2



Step 3

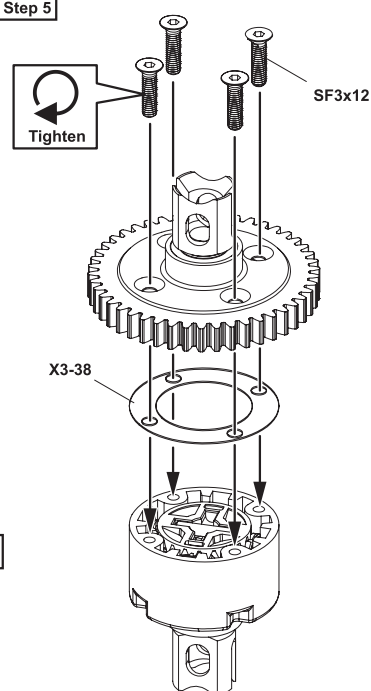


Step 4

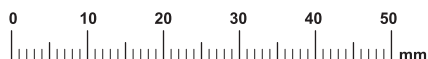


Use the Diff. Oil #10000 for the center diff.

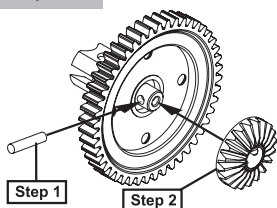
Step 5



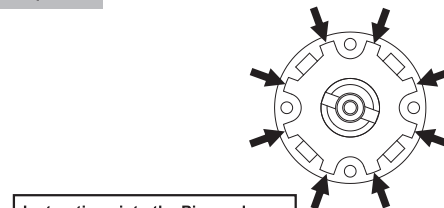
- X3-34
2.5x11.8mm Pinx2
- J-03A
P6 O-Ringx2
- #267D
8x16x5mm
Ball Bearingx2
- SW 4x8x0.25
4x8x0.25mm
Washerx4
- #363
4mm Alum. Cross Pinx2
- SF3x12mm
Flat Head Hex Screwx4



Step detail

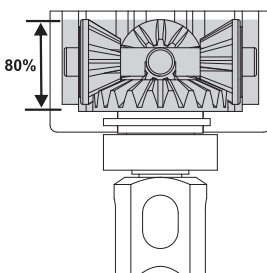


Step detail



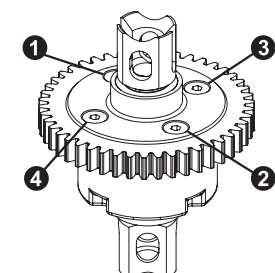
Step detail

Fill the diff oil just level with the top of the satellite gears.

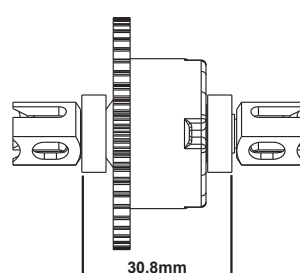


Step detail

Repeat tightening in this order



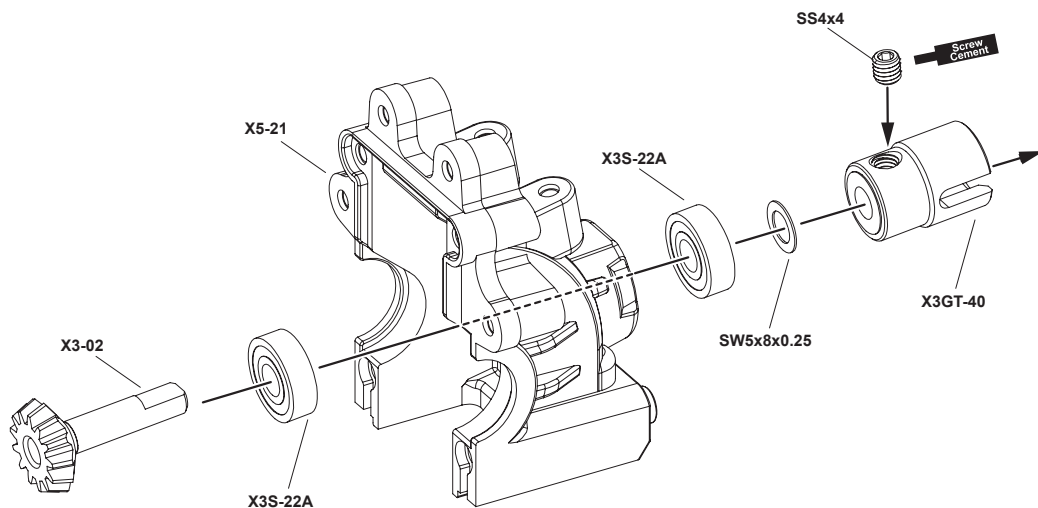
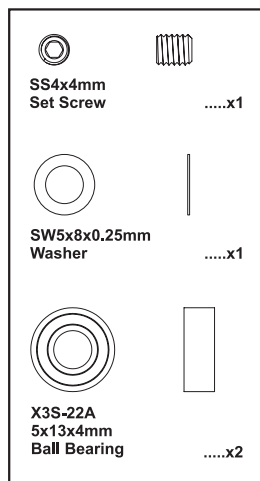
After assembly the differential should be 30.8mm measured from the ends of the installed ball-bearings. If differential is longer, hold the bevel gear and retighten the 4 screws.



3 ASSEMBLY OF THE FRONT GEAR CASE



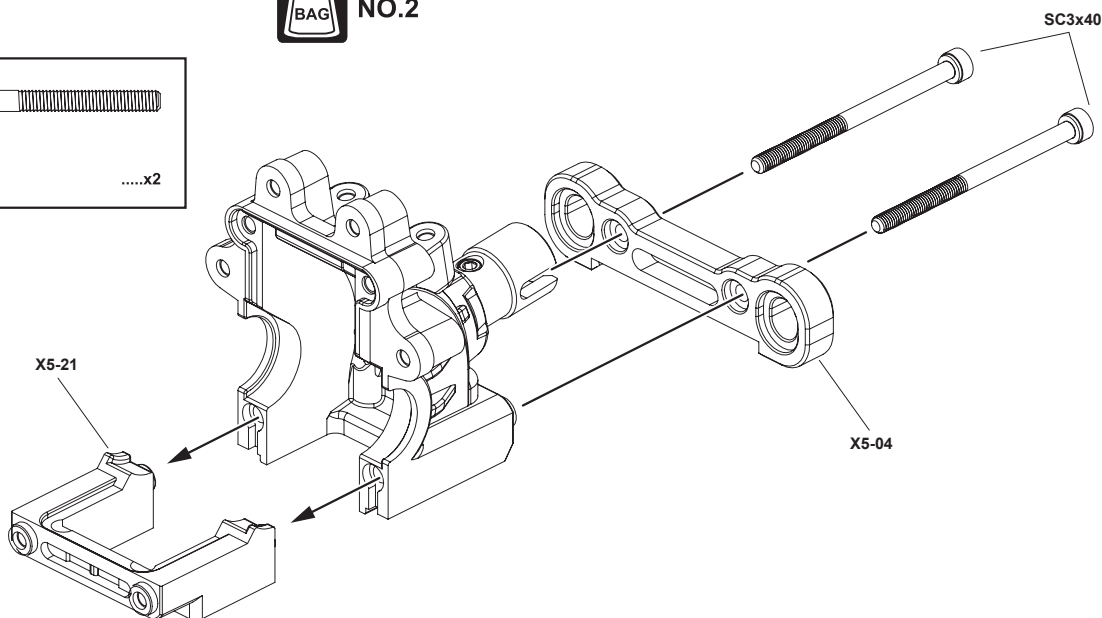
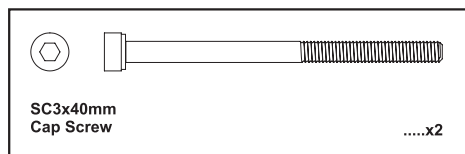
NO.2



4 ASSEMBLY OF THE FRONT GEAR CASE



NO.2

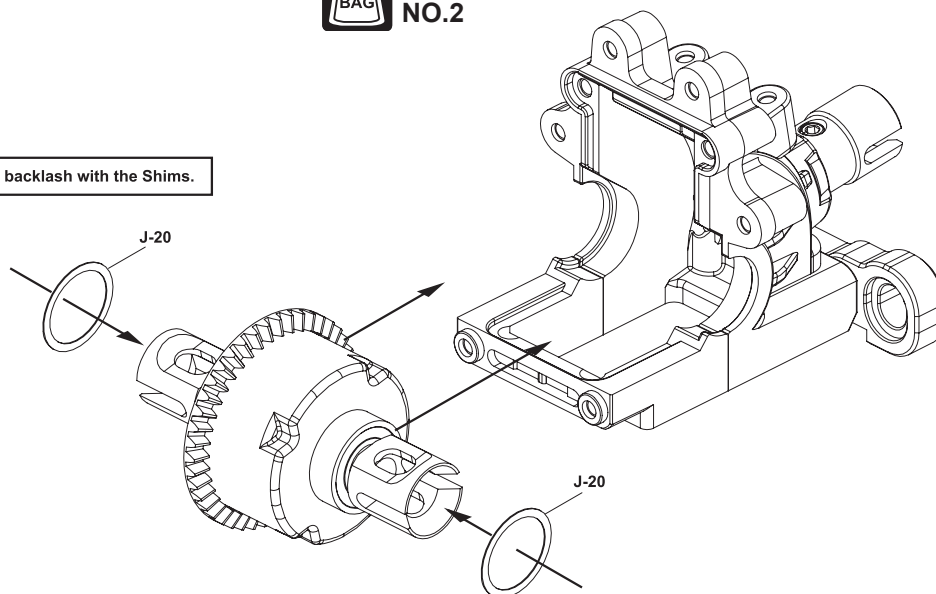
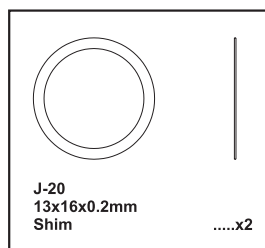


5 ASSEMBLY OF THE FRONT DIFFERENTIAL INTO GEAR CASE



NO.1
NO.2

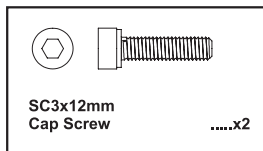
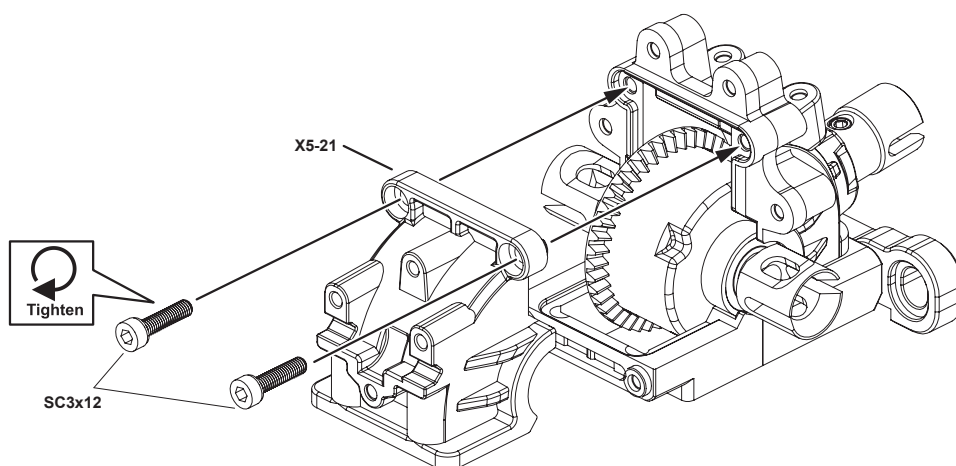
Adjust the backlash with the Shims.



6 ASSEMBLY OF THE FRONT GEAR CASE COVER



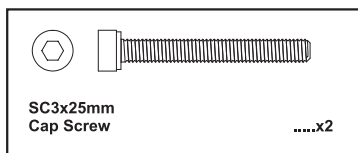
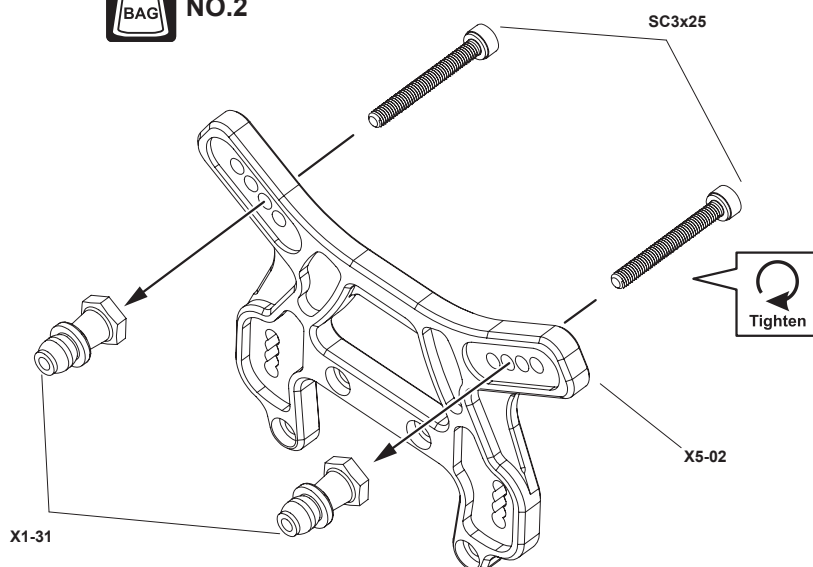
NO.2



7 ASSEMBLY OF THE FRONT SHOCK STAY



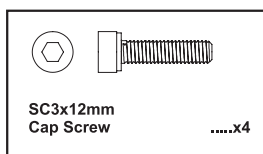
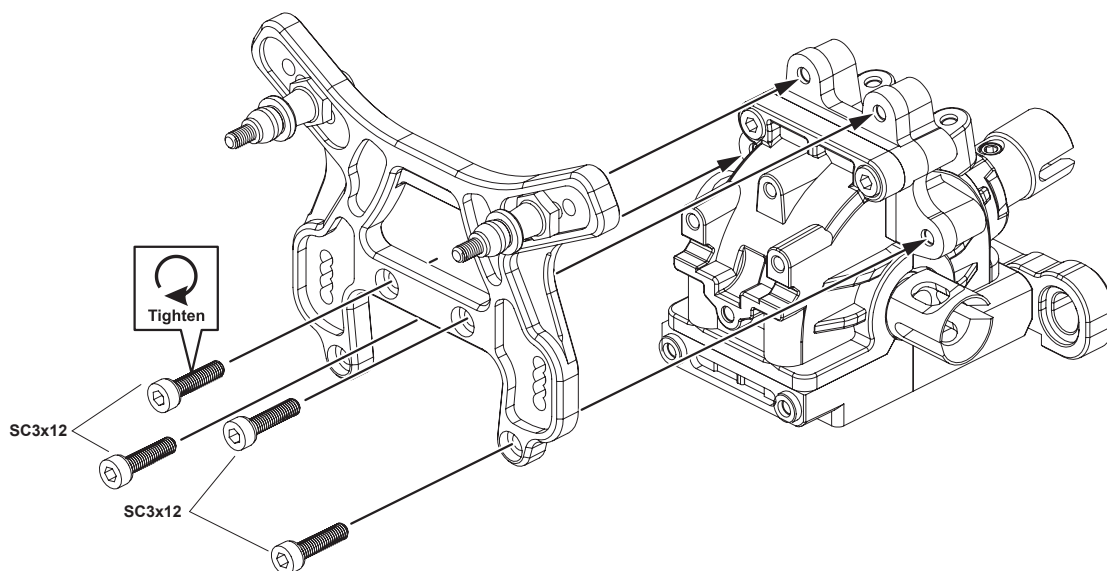
NO.2



8 ASSEMBLY OF THE FRONT SHOCK STAY ONTO GEAR CASE



NO.2



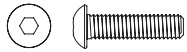
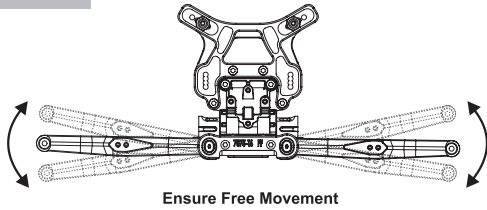
9 ASSEMBLY OF THE FRONT LOWER ARMS



NO.2

Assemble both right and left sides.

Step detail



SB3x12mm
Hex Screwx2



X3-40
4x10mm
Round Head Set Screwx2



SB3x12

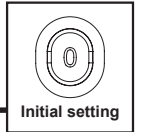
X5-05

X3-46

Initial setting

X3.6-07

X5-22



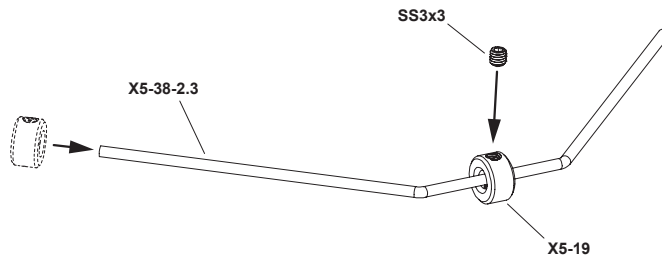
X3-46

10 ASSEMBLY OF THE FRONT STABILIZER ROD

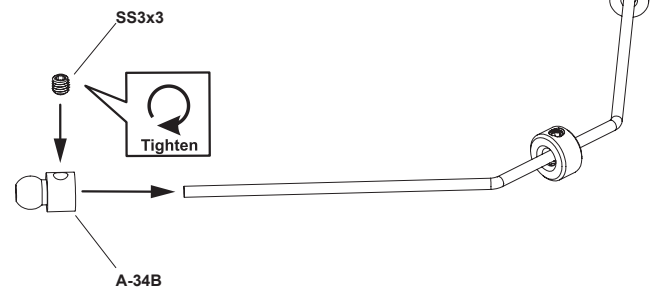


NO.2

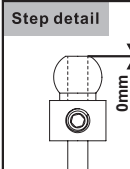
Step 1



Step 2



SS3x3mm
Set Screwx3



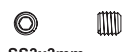
11 ASSEMBLY OF THE FRONT STABILIZER ROD



NO.2



SB3x8mm
Hex Screwx3



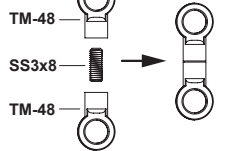
SS3x3mm
Set Screwx2



SS3x5mm
Set Screwx2



SS3x8mm
Set Screwx2



X5-10

A-41A

SS3x3

X5-21

SB3x8

SS3x5



Do Not
Over Tighten

12 ADJUSTABLE CASTER SET

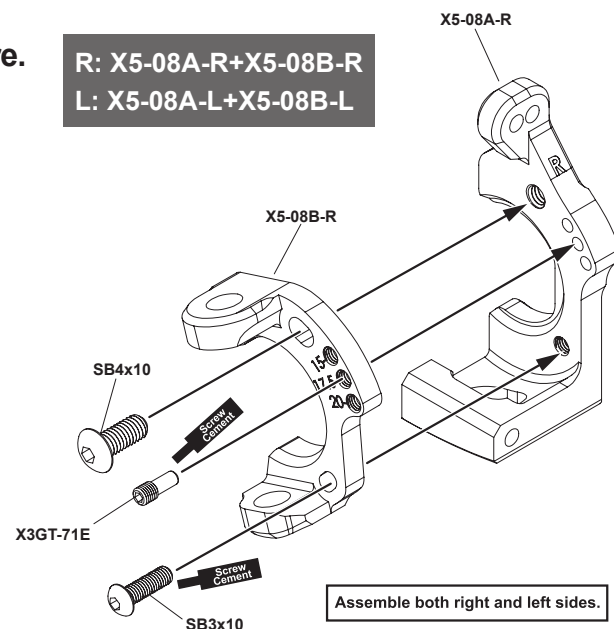
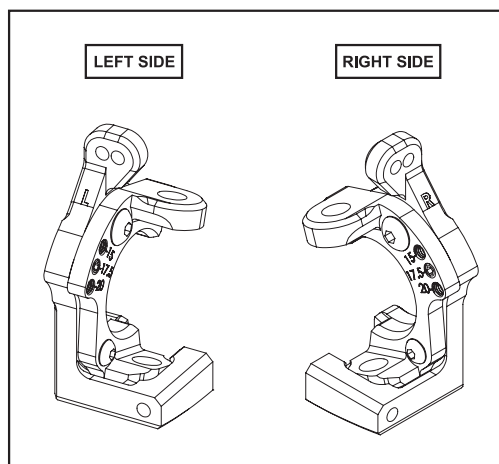
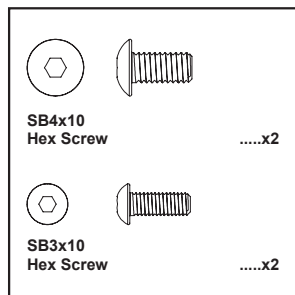


NO.2

Adjustable Caster Set installation, as shown in the figure.
(Take 17.5-degree caster angle on the right side as an example)

R: X5-08A-R+X5-08B-R

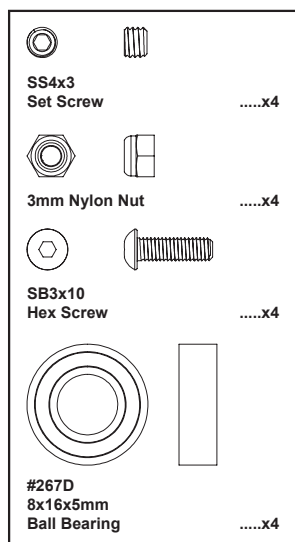
L: X5-08A-L+X5-08B-L



13 ASSEMBLY OF THE FRONT KNUCKLE ARMS

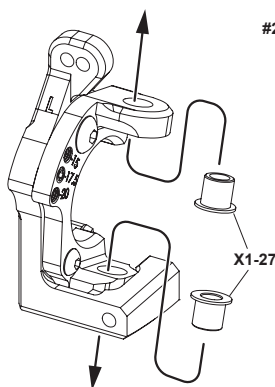


NO.2



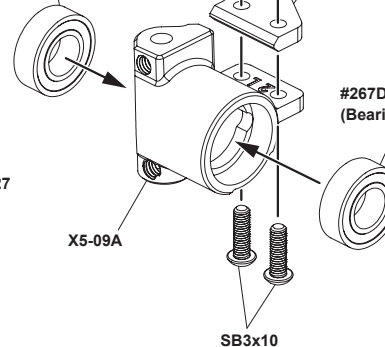
LEFT SIDE

Step 1

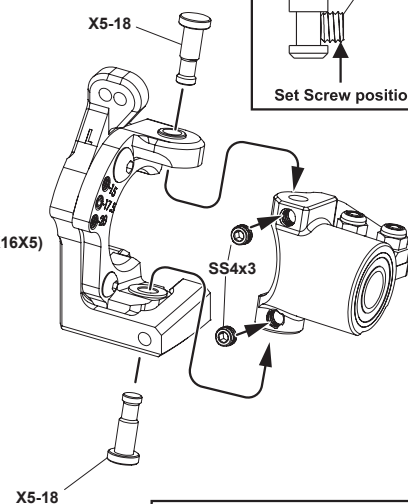


Step 2

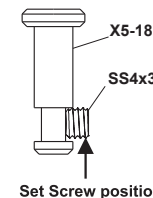
#267D(Bearing 8X16X5)



Step 3



Step detail

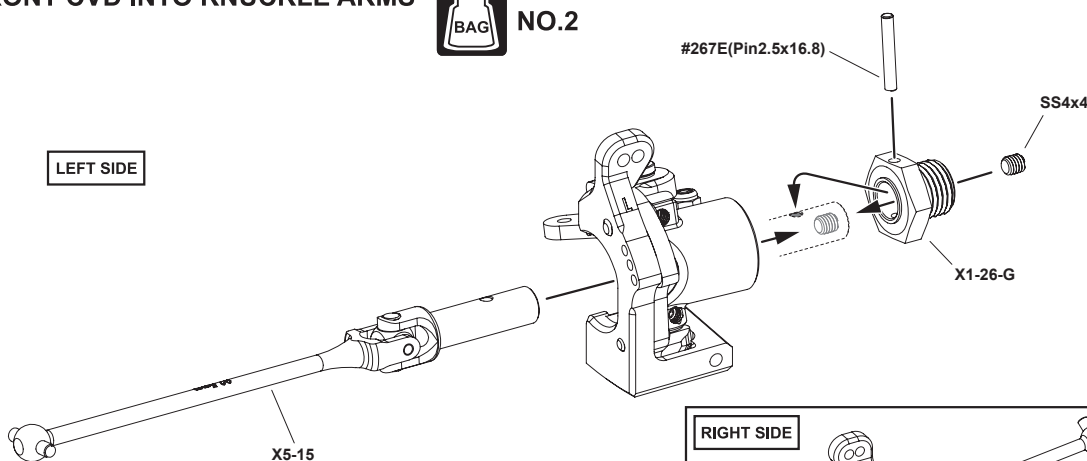


14 ASSEMBLY OF THE FRONT CVD INTO KNUCKLE ARMS

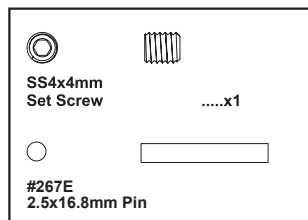


NO.2

LEFT SIDE



RIGHT SIDE



15 ASSEMBLY OF THE KNUCKLE ARMS ONTO FRONT LOWER ARMS



NO.2

R Right side

Assemble both right and left sides.



SNN3mm
Nylon Nut

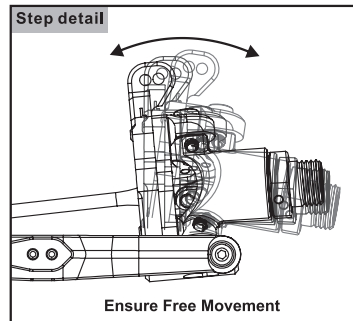
.....x2



X1S-19A



LEFT SIDE



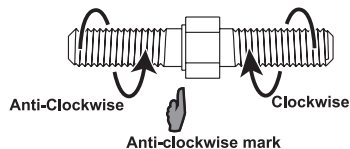
16 ASSEMBLY OF THE FRONT UPPER ARMS



NO.2

Step detail

Note the locking direction!



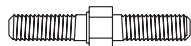
X3-32
7x12mm Ball

.....x2



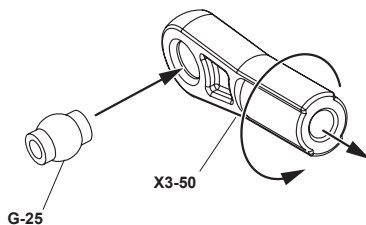
G-25
7mm Ball

.....x2



G-26
5x35mm Turnbuckle

.....x2



G-25

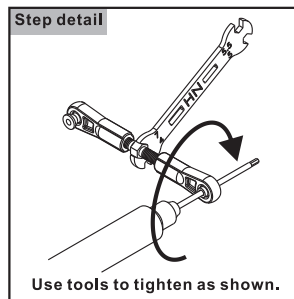
X3-50

x2

Anti-clockwise mark

G-26

Step detail



Use tools to tighten as shown.

X3-32

X3-50

17 ASSEMBLY OF THE FRONT UPPER ARMS

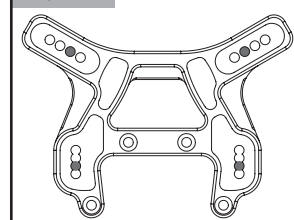


NO.2

R Right side

Assemble both right and left sides.

Step detail



Face the anti-clockwise mark to the gear case and make opposite direction for easy adjustment.



SNN3mm
Nylon Nut

.....x4



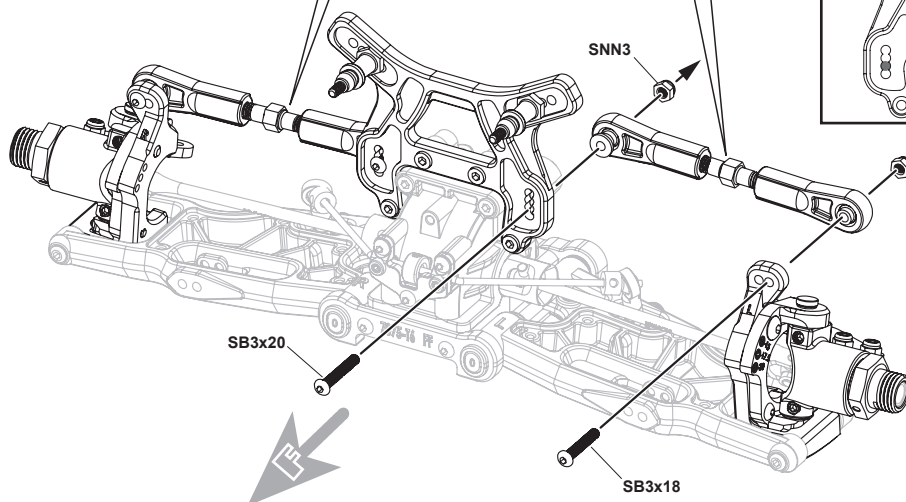
SB3x18mm
Hex Screw

.....x2



SB3x20mm
Hex Screw

.....x2



SNN3

SB3x20

SB3x18

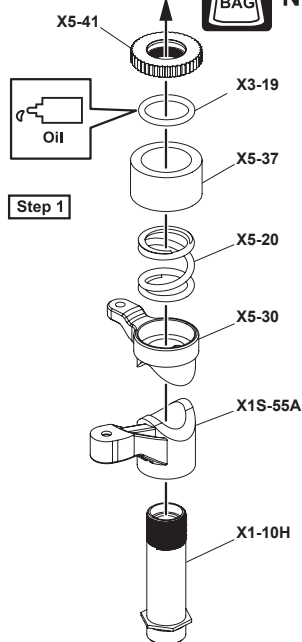
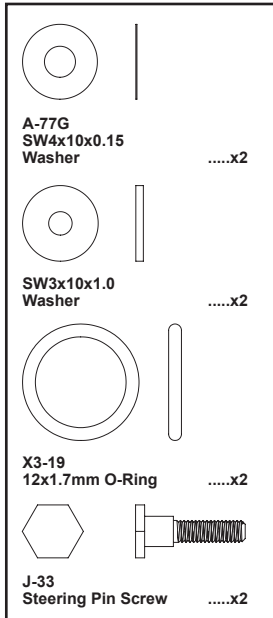


LEFT SIDE

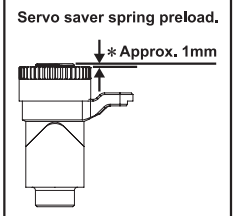
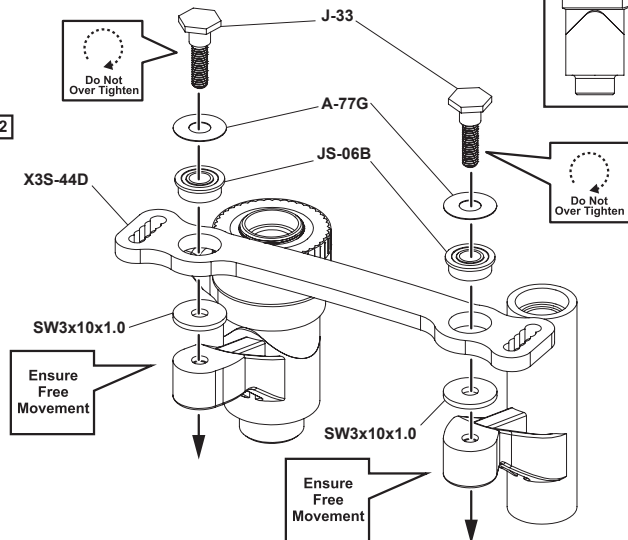
18 ASSEMBLY OF THE SERVO SAVER



NO.3



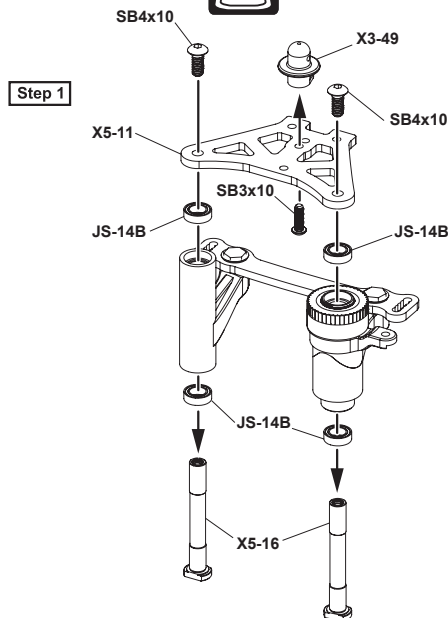
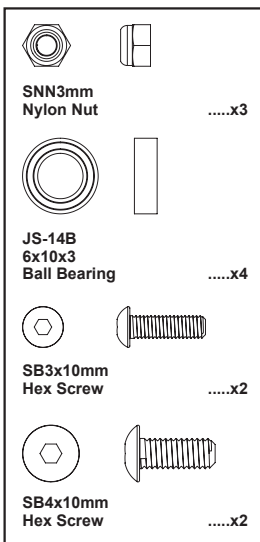
Step 2



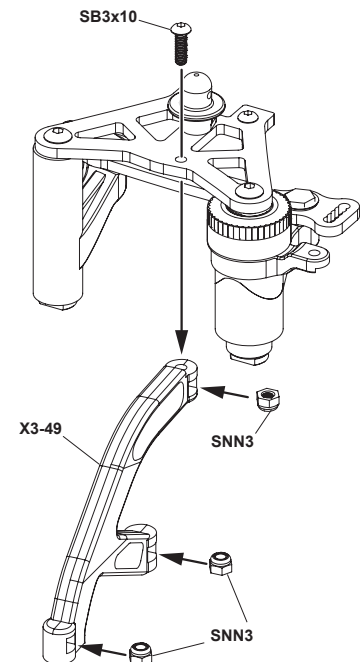
19 ASSEMBLY OF THE SERVO SAVER



NO.3



Step 2



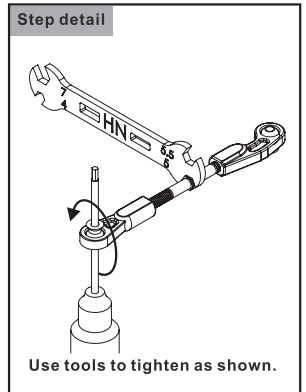
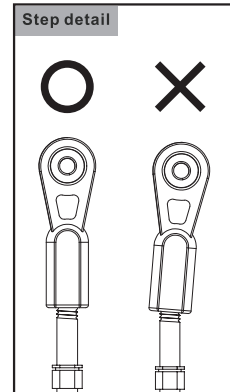
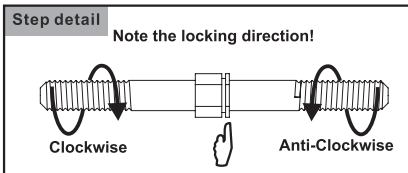
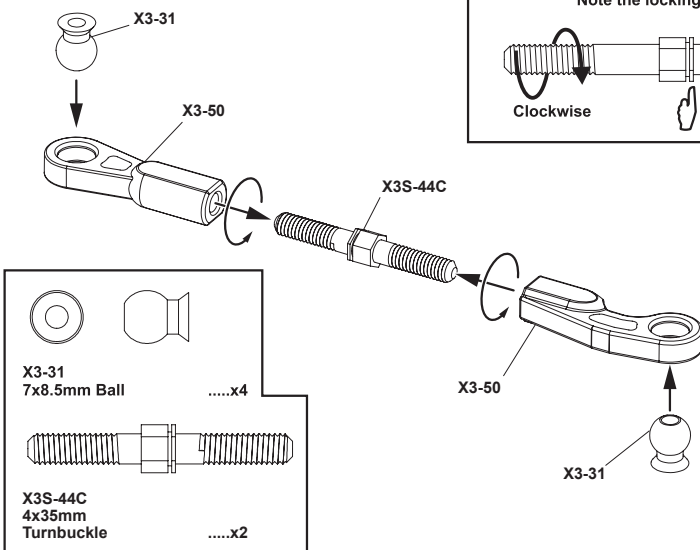
20 ASSEMBLY OF THE STEERING TIE-ROD



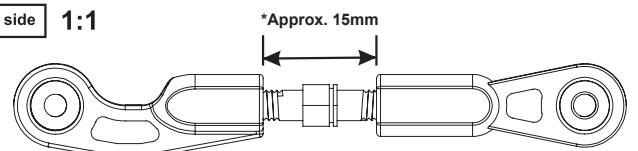
NO.3

Make two steering rods for left and right hand sides.

LEFT SIDE



Right side 1:1



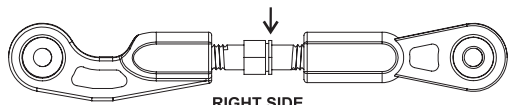
21 ASSEMBLY OF THE STEERING TIE-ROD



NO.3

Step detail

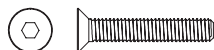
Face the anti-clockwise mark to the gear case and make oposite direction for easy adjustment.



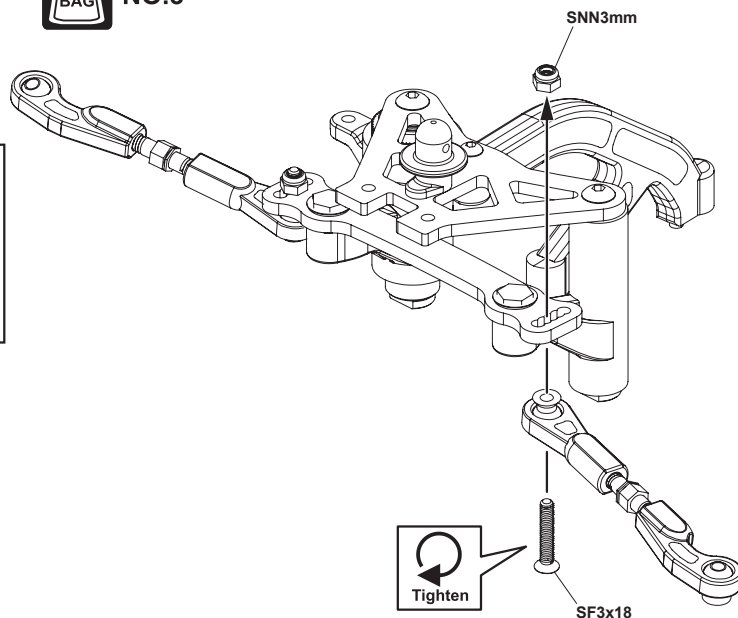
RIGHT SIDE



SNN3mm
Nylon Nutx2



SF3x18mm
Flat Head Hex Screwx2



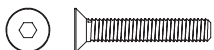
22 ASSEMBLY OF THE SERVO SAVER ONTO THE FRONT GEAR BOX



NO.3



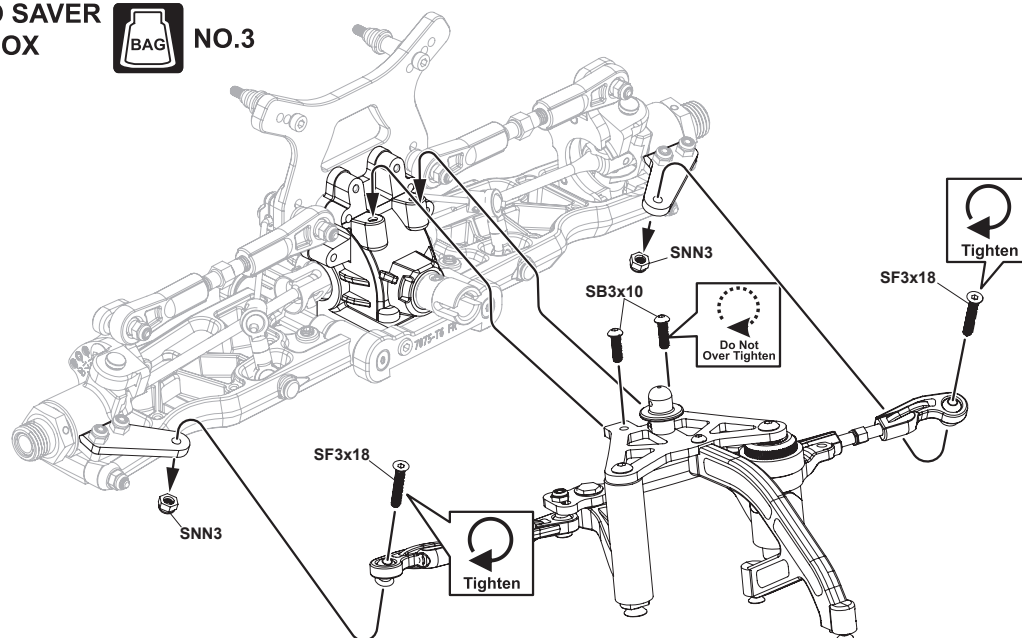
SNN3mm
Nylon Nutx2



SF3x18mm
Flat Head Hex Screwx2



SB3x10mm
Hex Screwx2



23 ASSEMBLY OH THE REAR PINION GEAR AND CVD SHAFT



NO.4



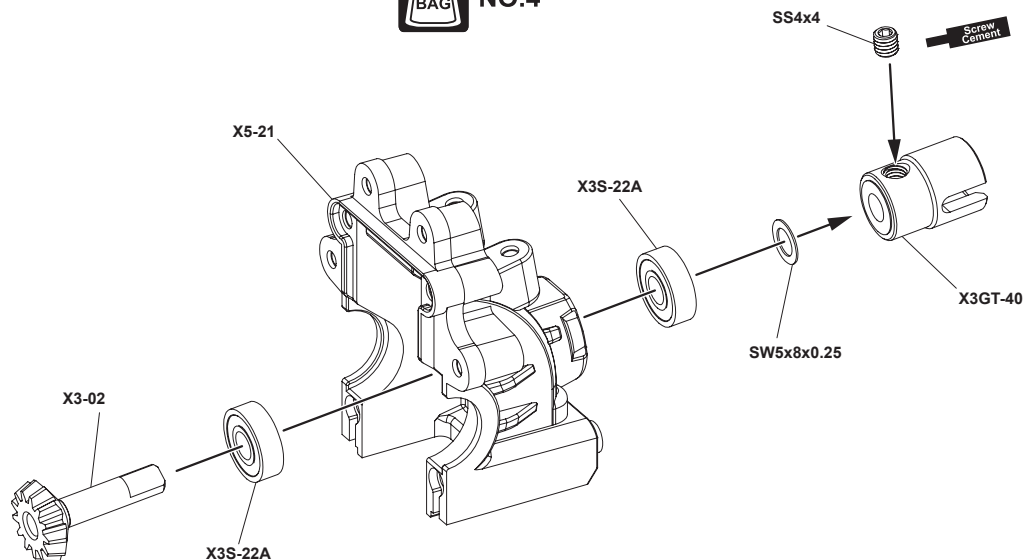
SS4x4mm
Set Screwx1



SW5x8x0.25mm
Washerx1



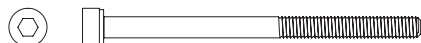
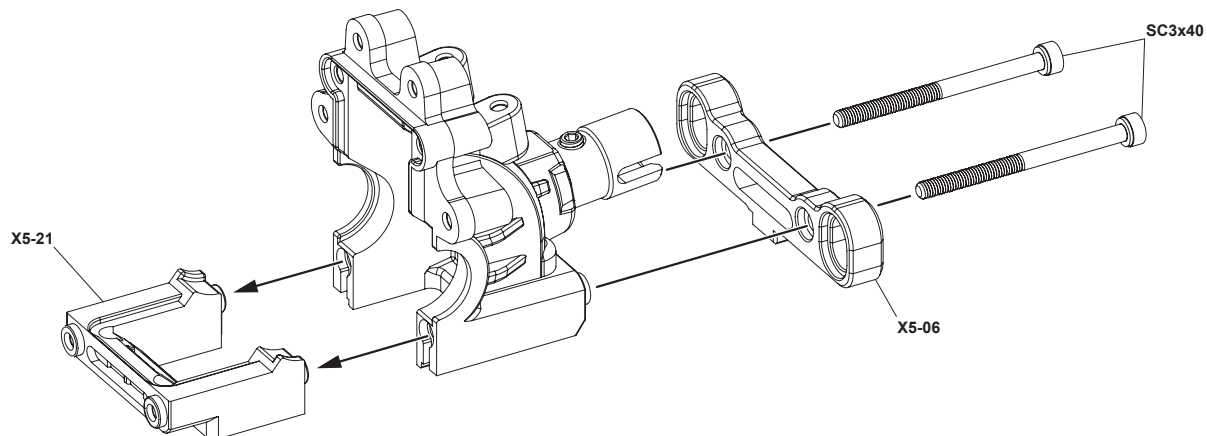
X3S-22A
5x13x4mm
Ball Beringx2



24 ASSEMBLY OF THE REAR GEAR CASE



NO.4



SC3x40mm
Cap Screw

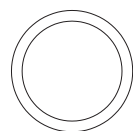
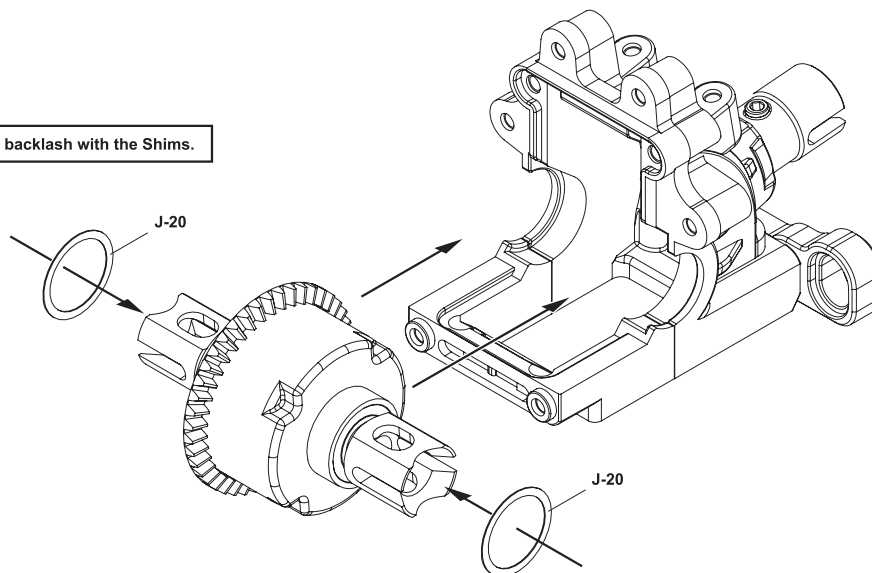
.....x2

25 ASSEMBLY OF THE REAR DIFFERENTIAL ONTO GEAR CASE



NO.4
NO.1

Adjust the backlash with the Shims.



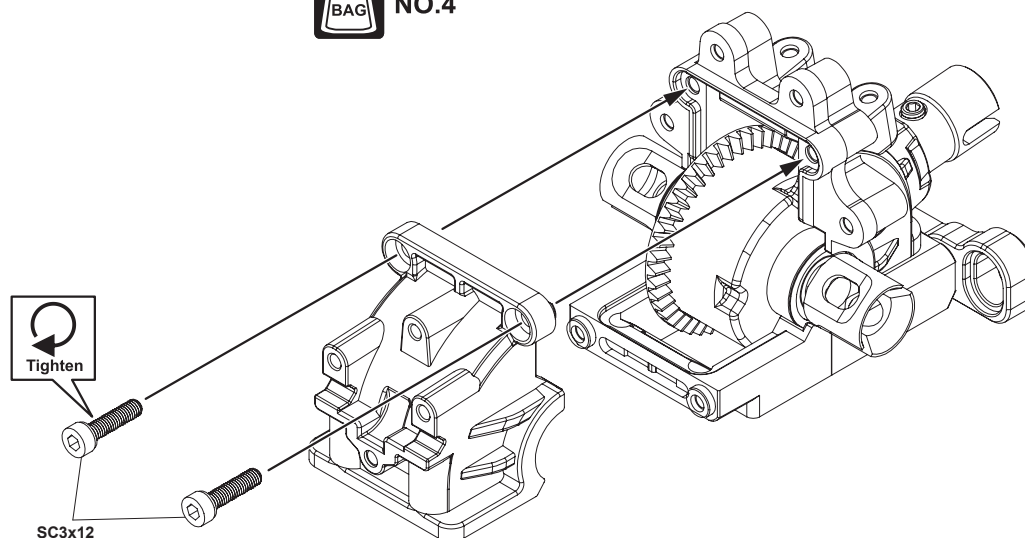
J-20
13x16x0.2mm
Shim

.....x2

26 ASSEMBLY OF THE REAR GEAR CASE COVER



NO.4



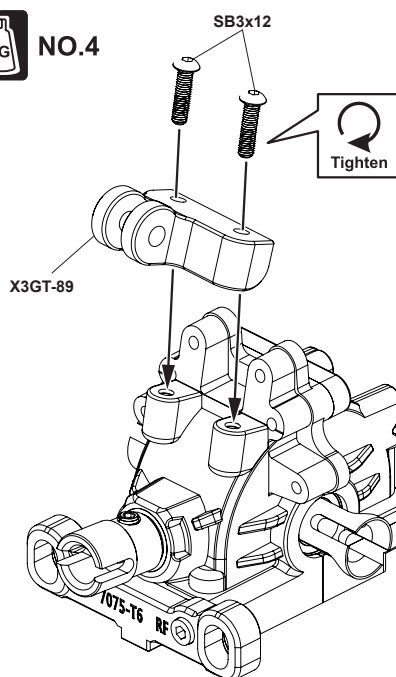
SC3x12mm
Cap Screw

.....x2

27 ASSEMBLY OF THE REAR BRACE MOUNT



NO.4

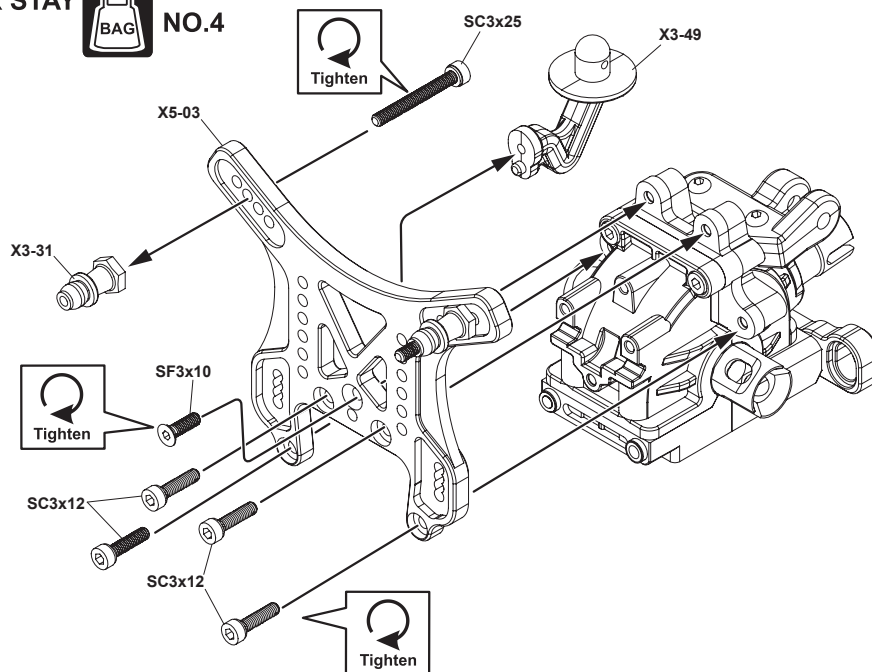


SB3x12mm
Hex Screwx2

28 ASSEMBLY OF THE REAR SHOCK STAY ONTO REAR GEAR CASE



NO.4



SF3x10mm
Flat Head Hex Screwx1



SC3x12mm
Cap Screwx4

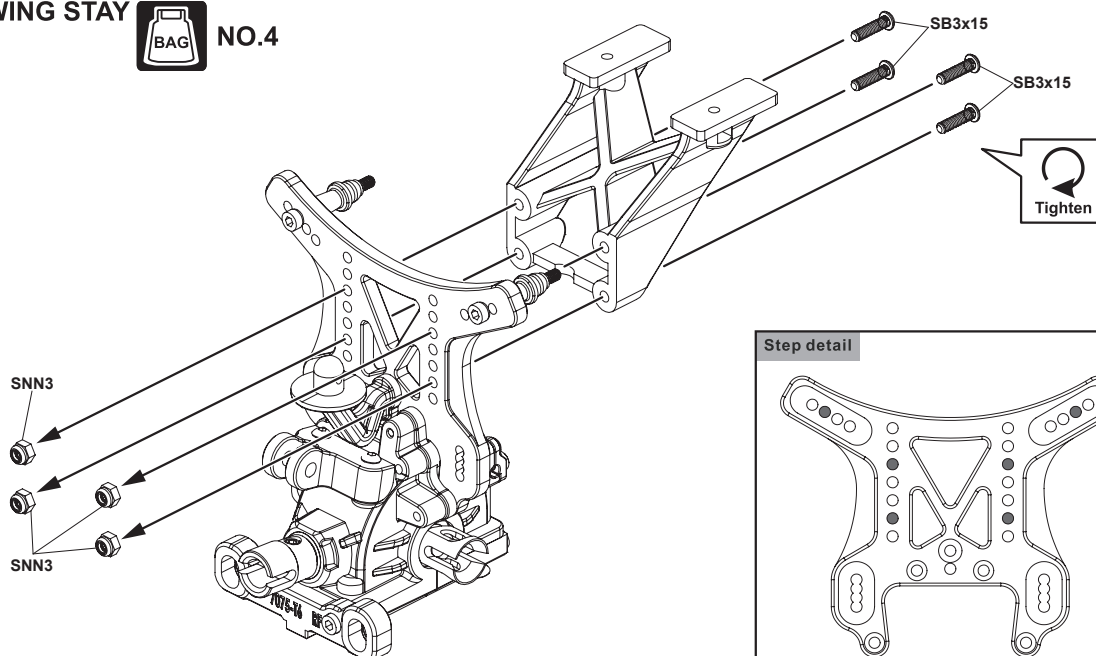


SC3x25mm
Cap Screwx2

29 ASSEMBLY OF THE WING STAY



NO.4

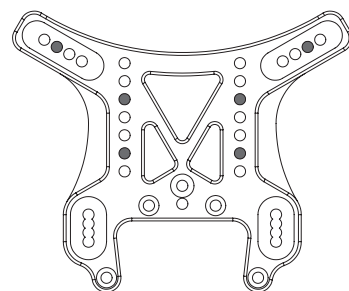


SNN3mm
Nylon Nutx4



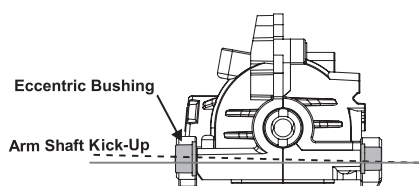
SB3x15mm
Hex Screwx4

Step detail



30 REAR KICK-UP (RF) & REAR TOE-IN (RR) SETTING

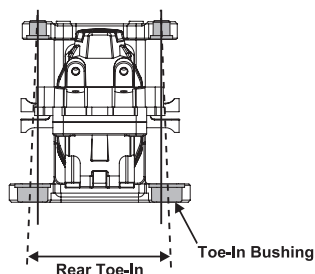
REAR KICK-UP SETTING



Rear Kick-Up	Characteristics
Less Rear Kick-Up	● Absorb road shock less. ● Applicable flat surface.
More Rear Kick-Up	● Absorb road shock more. ● Applicable uneven surface.

RF	Rear Kick-Up
3.3	2.8°
3	2.5°
2.5	2°
2	1.5°
2 (Reverse)	1°
2.5 (Reverse)	0.5°
3 (Reverse)	0°

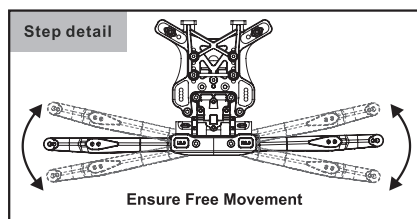
REAR TOE-IN SETTING



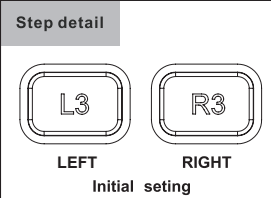
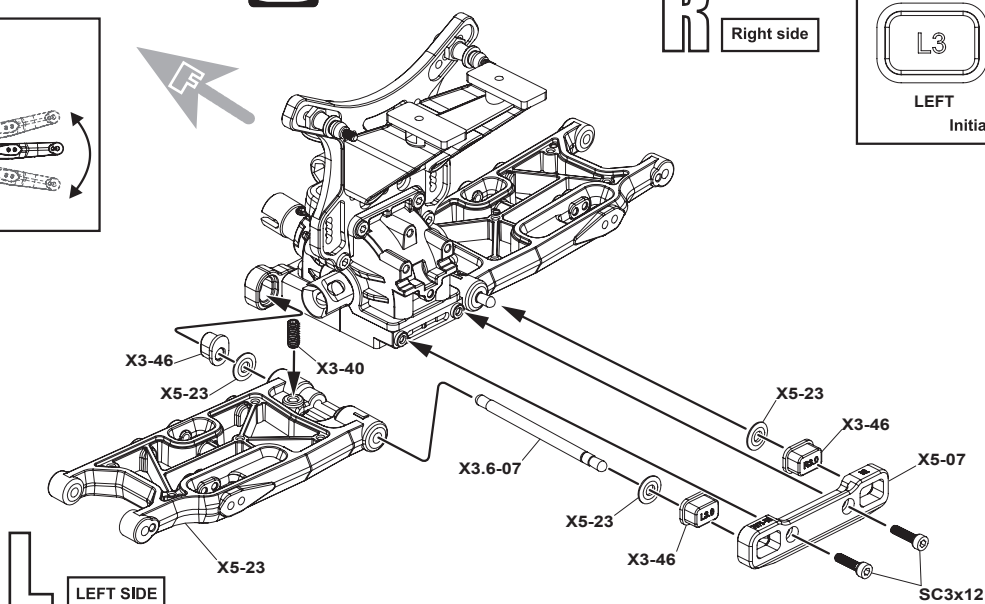
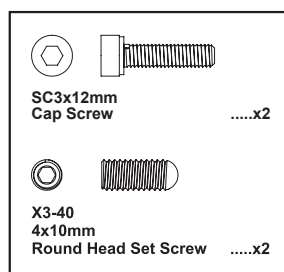
Rear Toe-In	Characteristics
Less Rear Toe-In	● Reduced Grip. ● Oversteer tendency. ● Linear acceleration over the instability.
More Rear Toe-In	● Increased grip. ● Understeer tendencies. ● Linear acceleration than the stability.

RR	Rear Toe-In
L3.5 R3.5	3.5°
L3.3 R3.3	3.3°
L3 R3	3°
L2.5 R2.5	2.5°
L2 R2	2°

31 ASSEMBLY OF THE REAR LOWER ARMS



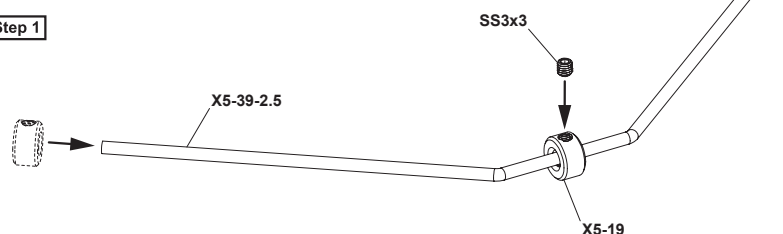
Assemble both right and left side.



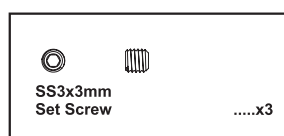
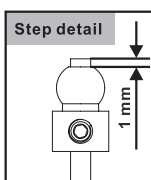
32 ASSEMBLY OF THE REAR STABILIZER ROD



Step 1



Step 2

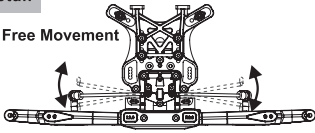


33 ASSEMBLY OF THE REAR STABILIZER

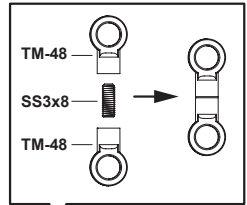
BAG NO.4

Step detail

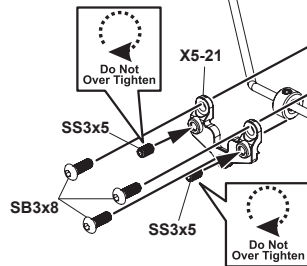
Ensure Free Movement



L LEFT SIDE



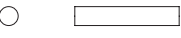
-  SB3x8mm Hex Screwx3
-  SS3x3mm Set Screwx2
-  SS3x5mm Set Screwx2
-  SS3x8mm Set Screwx2



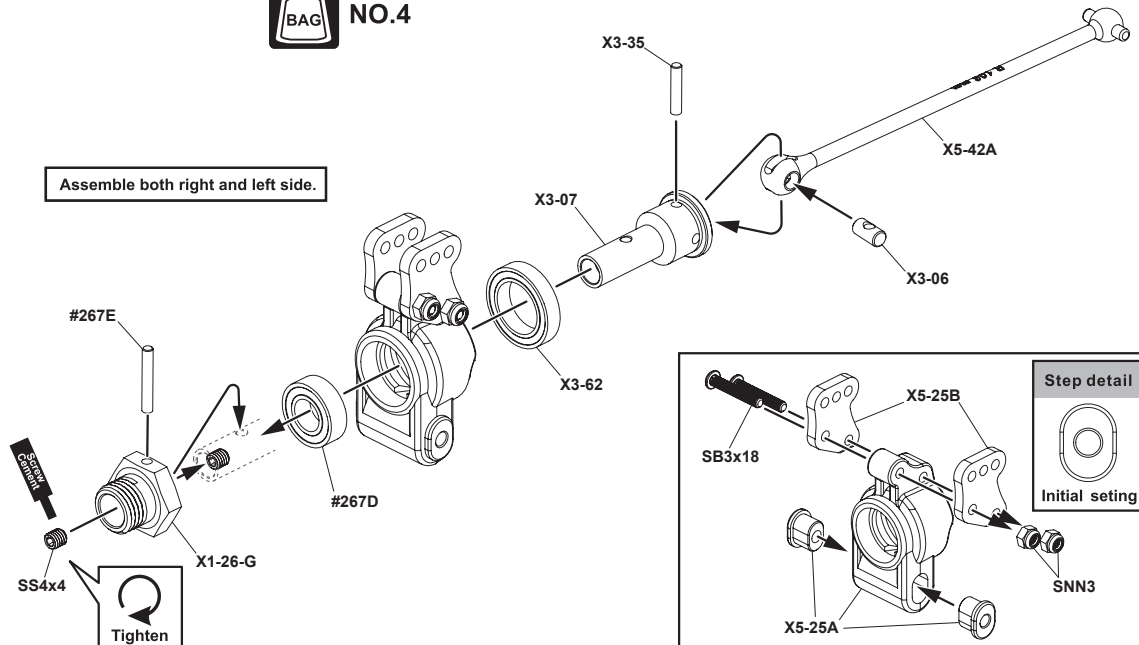
R Right side

34 ASSEMBLY OF THE REAR WHEEL HUBS

BAG NO.4

-  SNN3mm Nylon Nutx4
-  SB3x18mm Hex Screwx4
-  X3-35 2.5x12.8mm Pinx2
滾針
-  #267E 2.5x16.8mm Pinx2
滾針
-  4x4mm Set Screwx2
止付螺絲

Assemble both right and left side.

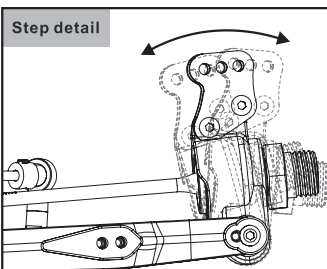


35 ASSEMBLY OF THE REAR SUSPENSION ARMS

BAG NO.4

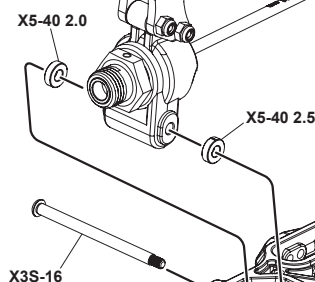
Step detail

Ensure Free Movement



L LEFT SIDE

Check screw direction.



R Right side

-  SNN3mm Nylon Nutx2

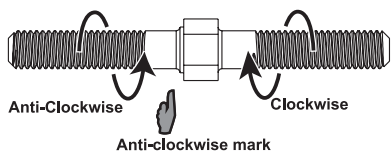
Assemble both right and left side.

36 ASSEMBLY OF THE REAR UPPER ARMS



NO.4

Step detail Note the locking direction!



X3-32
7x12mm Ball

.....x2



G-25
7mm Ball

.....x2



X5-17
5x50mm Turnbuckle

.....x2

X3-32

X3-50

Anti-clockwise mark

X5-17

x2

Use tools to tighten as shown.

X5-43

G-25

1:1

Approx.21mm

37 ASSEMBLY OF THE REAR UPPER ARMS



NO.4



LEFT SIDE

Assemble both right and left side.



SNN3mm
Nylon Nut

.....x4



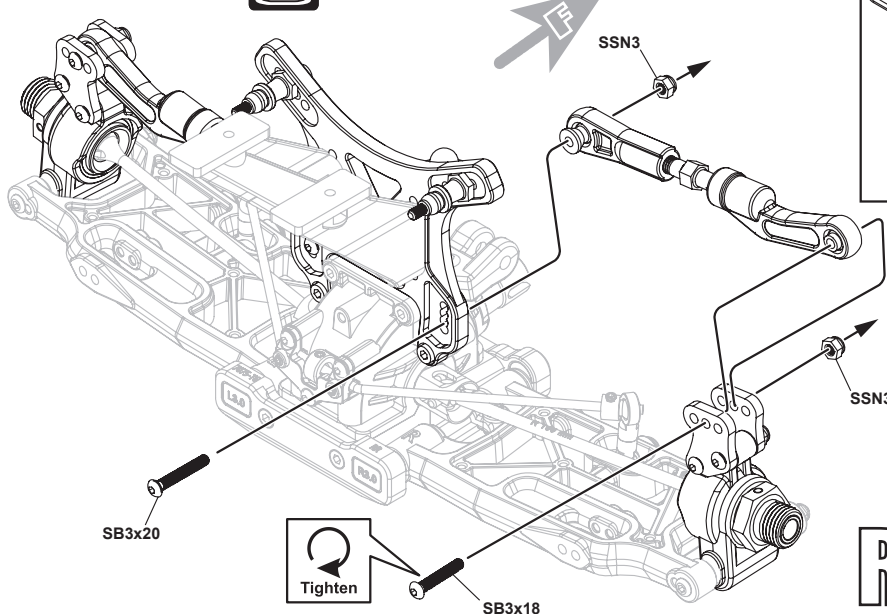
SB3x18mm
Hex Screw

.....x2



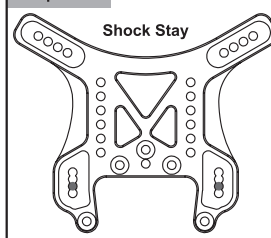
SB3x20mm
Hex Screw

.....x2



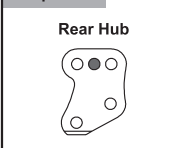
Step detail

Shock Stay



Step detail

Rear Hub



Right side

38 ASSEMBLY OF THE REAR MUD DEFLECTOR



NO.4



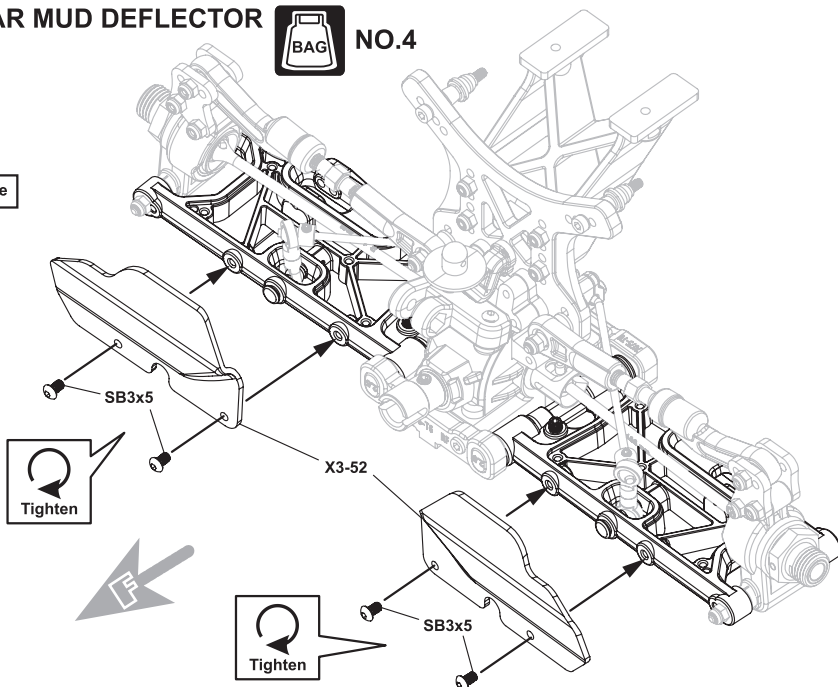
Right side

Assemble both right and left side.



SB3x5mm
Hex Screw

.....x4



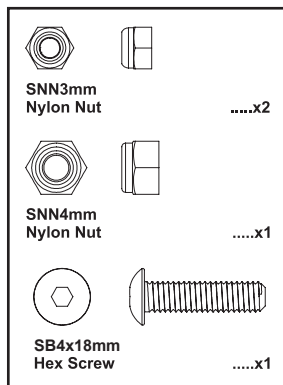
LEFT SIDE

39 ASSEMBLY OF THE REAR CENTER BRACE

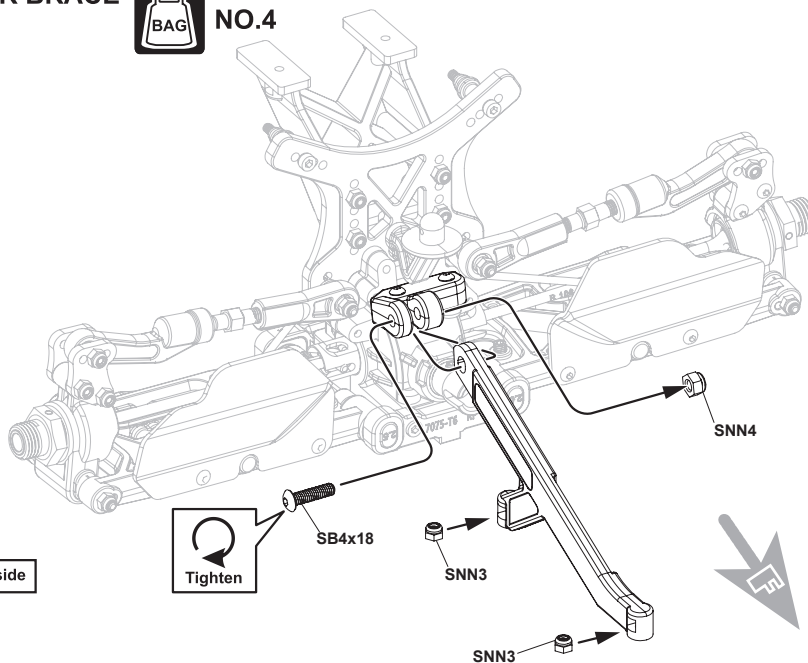


NO.4

L LEFT SIDE



R Right side

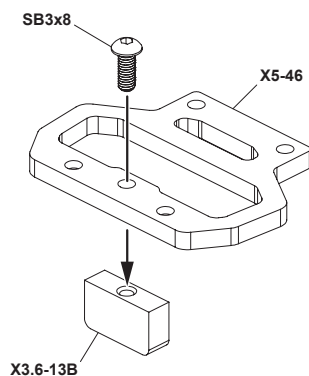


40 ASSEMBLY OF THE TOP CENTER DIFF MOUNT

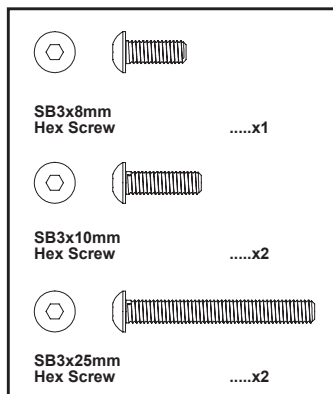
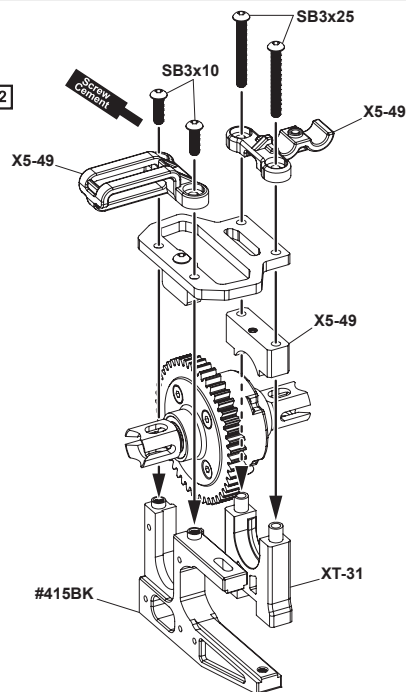


NO.5

Step 1



Step 2

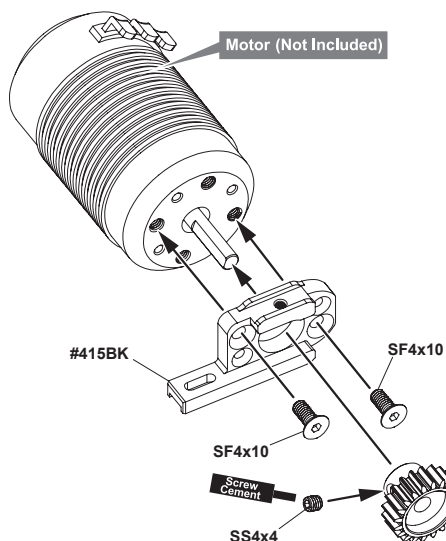


41 ASSEMBLY OF THE BOTTOM CENTER DIFF MOUNT & THE SPUR GEAR

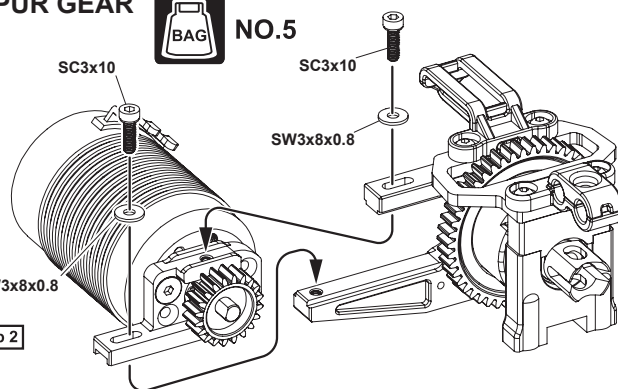


NO.5

Step 1



Step 2

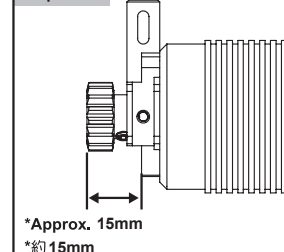


Option:

#397-13 (13T)
#397-14 (14T)
#397-15 (15T)
#397-16 (17T)
#397-18 (18T)

0 10 20 30 mm

Step detail

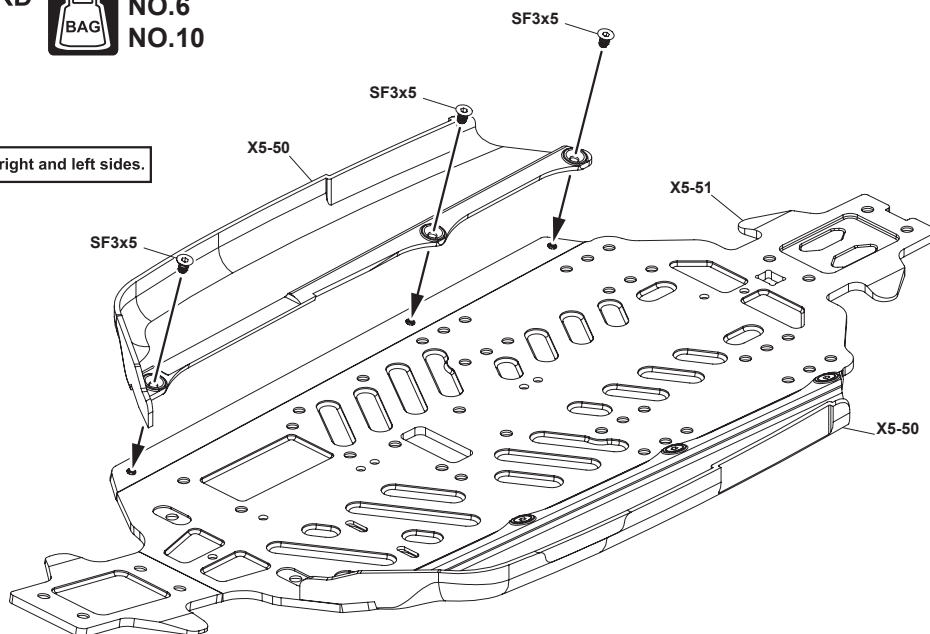


42 ASSEMBLY OF THE SIDE GUARD



NO.6
NO.10

Assemble both right and left sides.



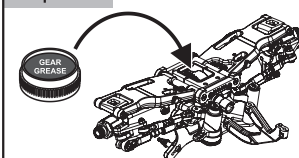
SF3x5mm
Flat Head Hex ScrewX7

43 ASSEMBLY OF THE FRONT GEAR CASE ONTO CHASSIS



NO.2
NO.10

Step detail



Fill the right amount of grease.



SF3x10mm
Flat Head Hex ScrewX2



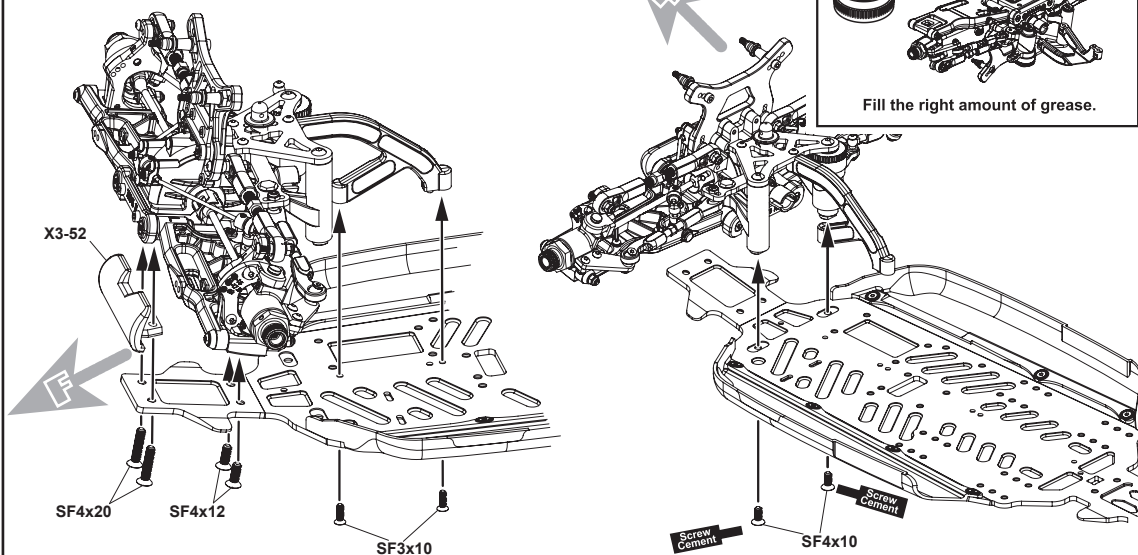
SF4x10mm
Flat Head Hex ScrewX2



SF4x12mm
Flat Head Hex ScrewX2



SF4x20mm
Flat Head Hex ScrewX2

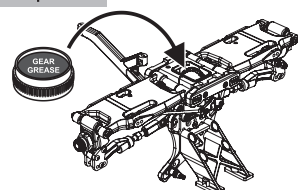


44 ASSEMBLY OF THE REAR GEAR CASE ONTO CHASSIS



NO.4
NO.10

Step detail



Fill the right amount of grease.



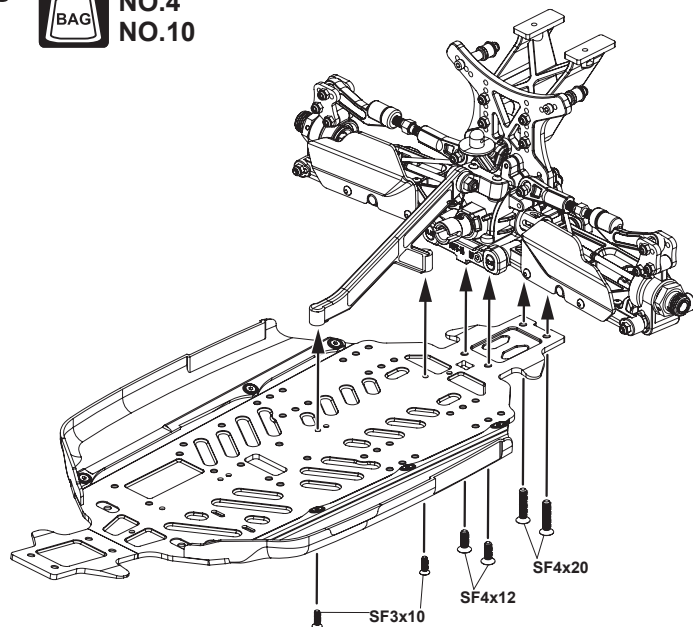
SF3x10mm
Flat Head Hex ScrewX2



SF4x12mm
Flat Head Hex ScrewX2



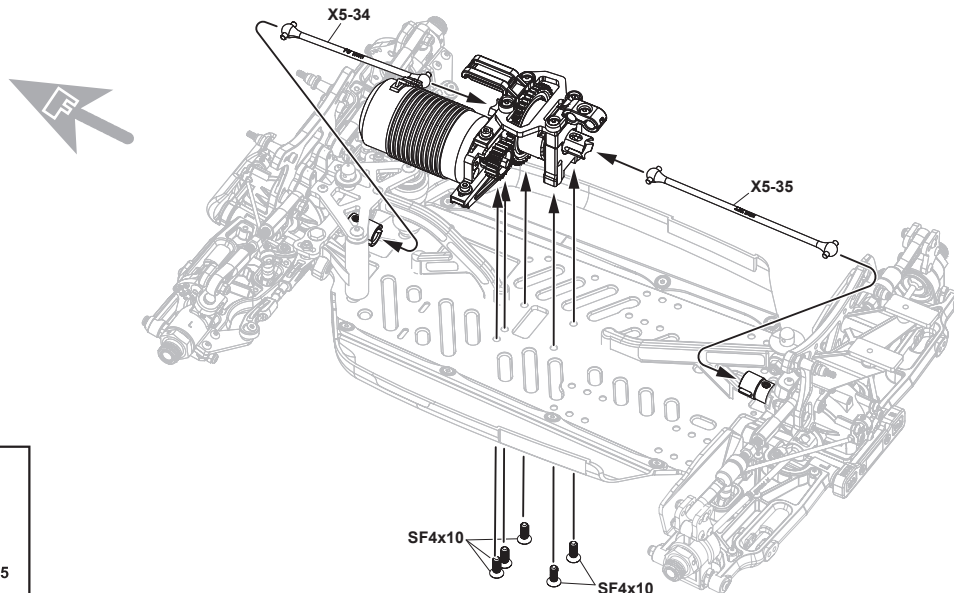
SF4x20mm
Flat Head Hex ScrewX2



45 ASSEMBLY OF THE CENTER DIFF. ONTO CHASSIS



NO.5
NO.10



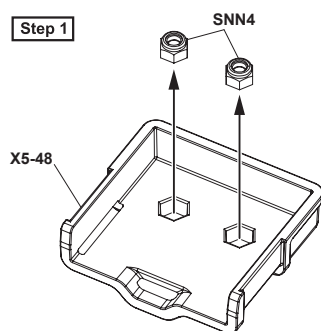
SF4x10mm
Flat Head Hex Screwx5

46 ASSEMBLY OF THE BATTERY CASES ONTO THE CHASSIS



NO.7
NO.10

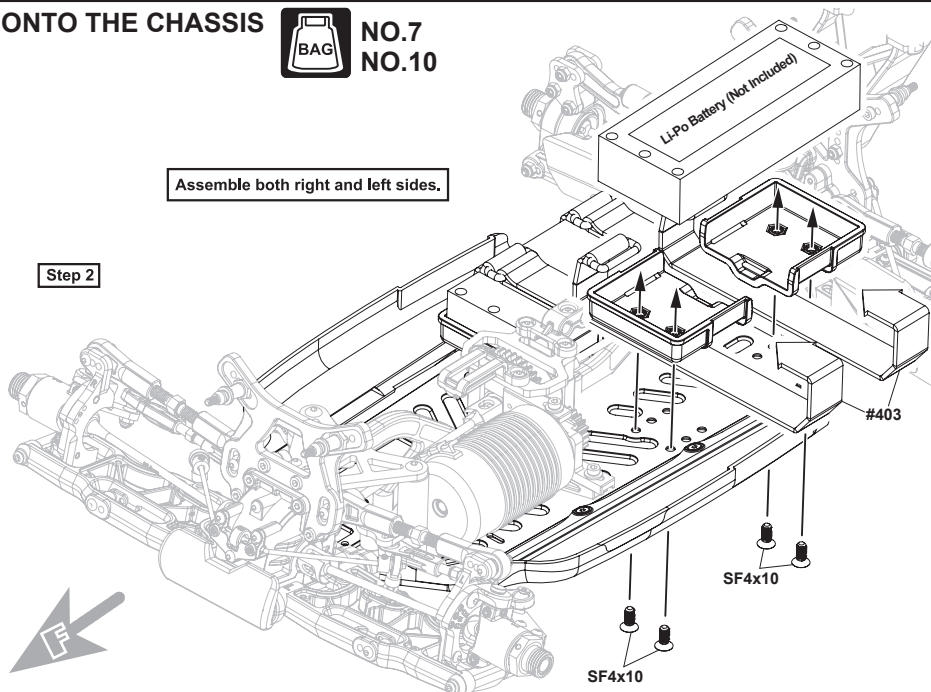
Step 1



X4

Assemble both right and left sides.

Step 2



SF4x10mm
Flat Head Hex Screwx8



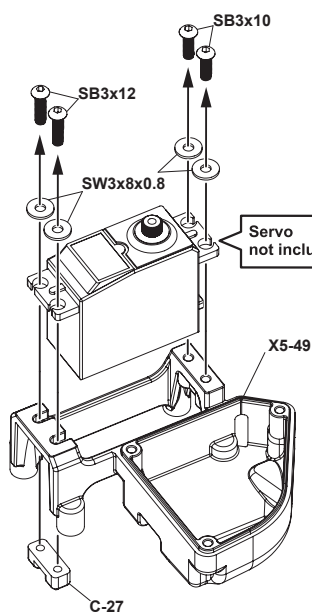
SNN4mm
Nylon Nutx8

47 ASSEMBLY OF THE STEERING SERVO ONTO SERVO BASE



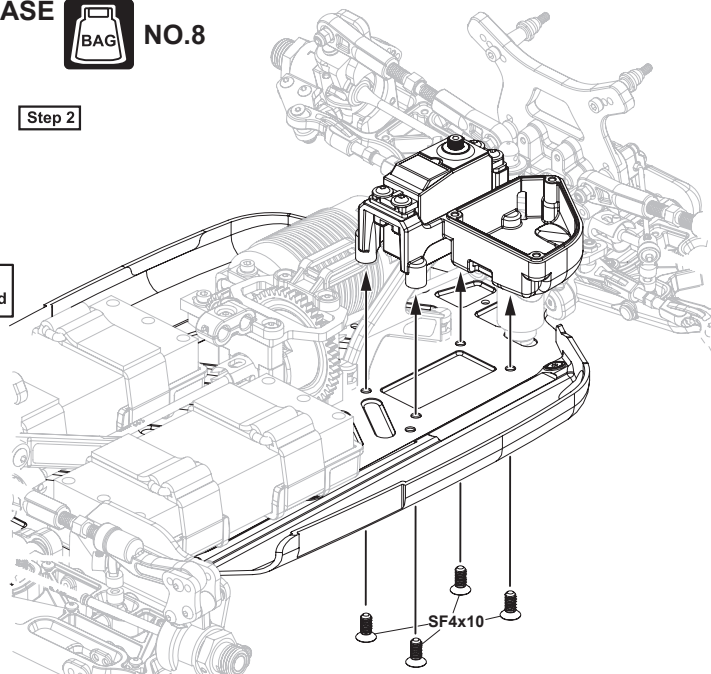
NO.8

Step 1



Servo not included

Step 2



SW3x8x0.8mm
Washerx4



SB3x10mm
Hex Screwx2



SB3x12mm
Hex Screwx2

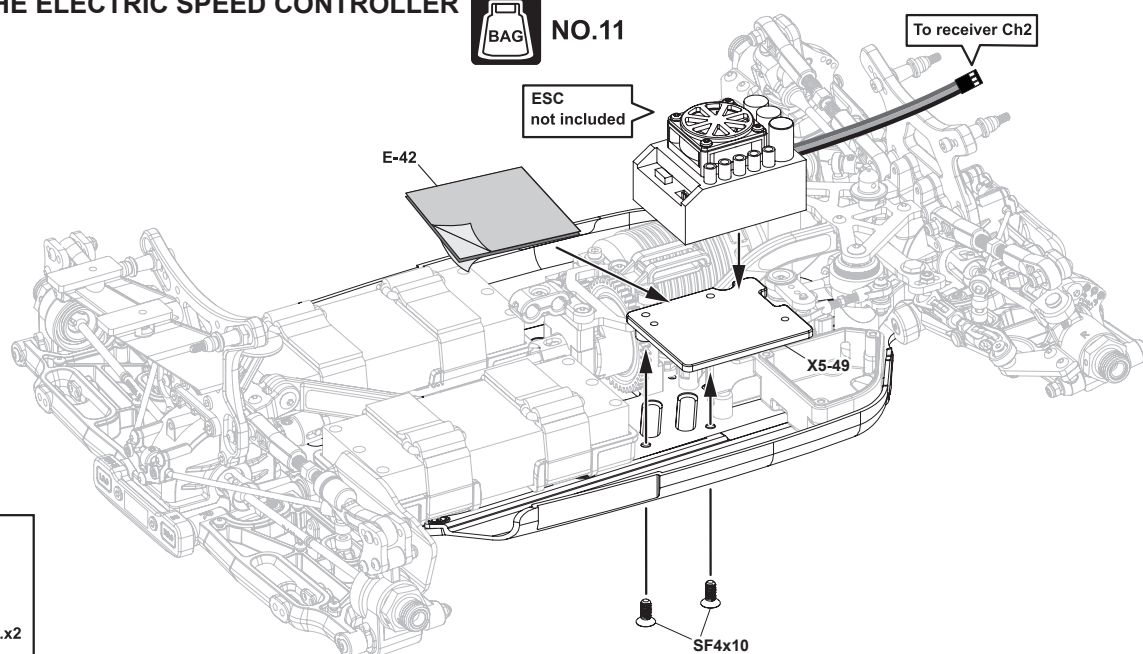


SF4x10mm
Flat Head Hex Screwx4

48 ASSEMBLY OF THE ELECTRIC SPEED CONTROLLER



NO.11



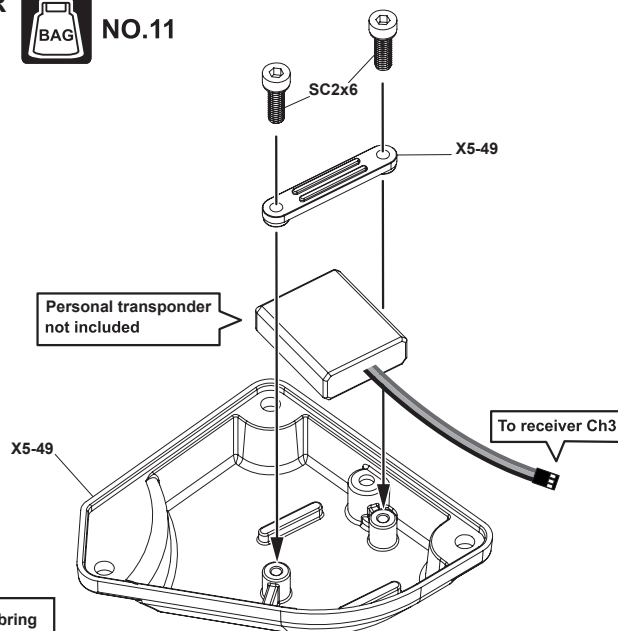
SF4x10mm
Hex Screw

.....x2

49 ASSEMBLY OF THE PERSONAL TRANSPONDER



NO.11



SC2x6mm
Cap Screw

.....x2

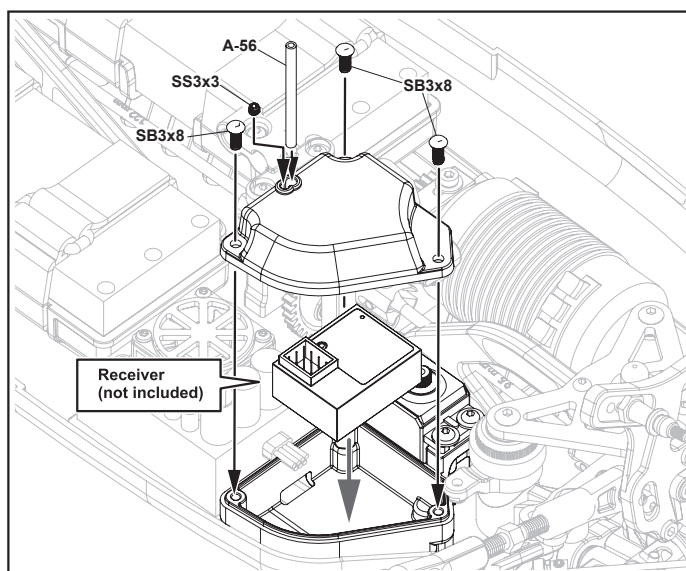


If participating in a competition, bring
your own transponder.

50 ASSEMBLY OF THE RECEIVER INTO RADIO CASE



NO.11



SS3x3mm
Set Screw

.....x1

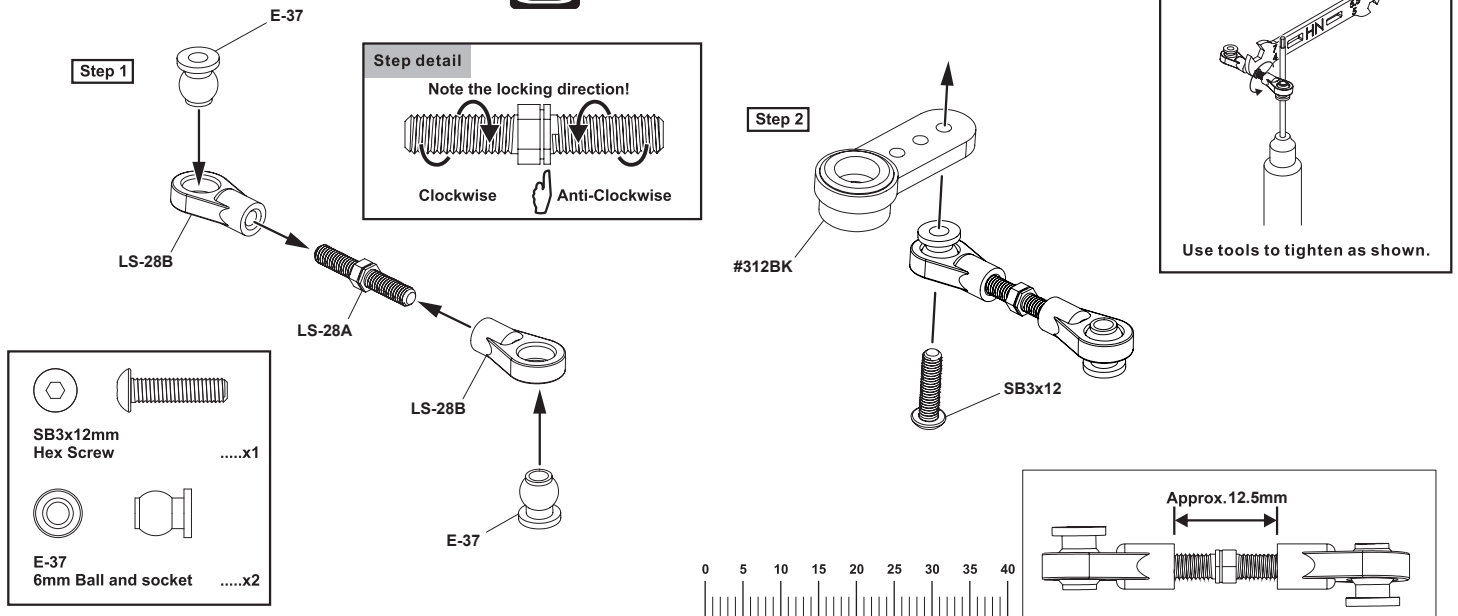


SB3x8mm
Hex Screw

.....x3

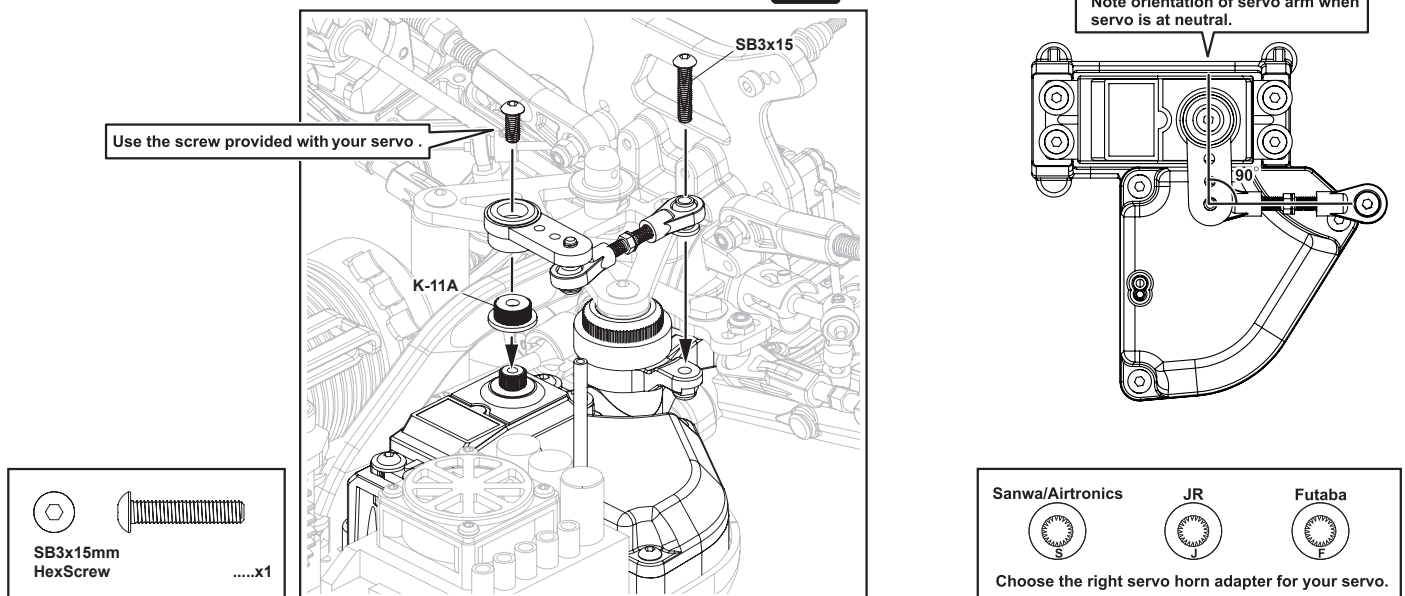
51 ASSEMBLY OF THE STEERING ROD

BAG NO.8



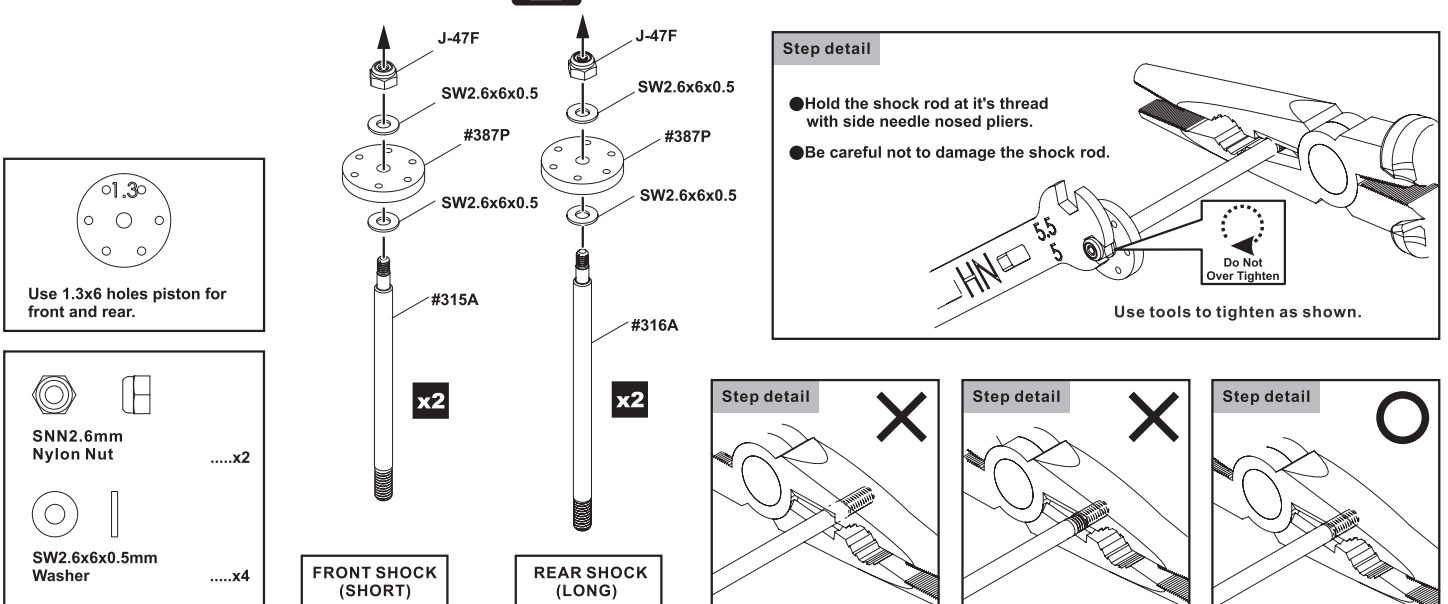
52 ASSEMBLY OF THE STEERING SERVO AND RADIO TRAY

BAG NO.8



53 ASSEMBLY OF THE SHOCK SHAFTS

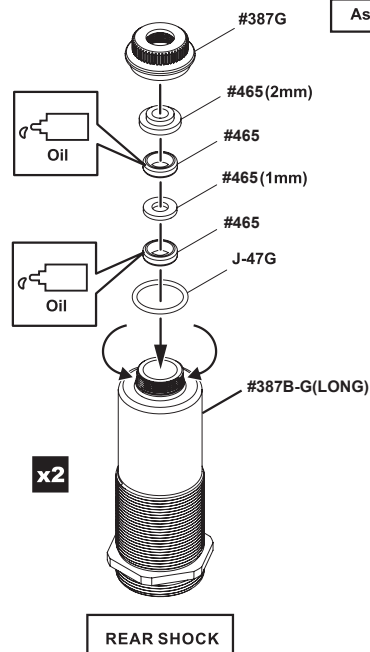
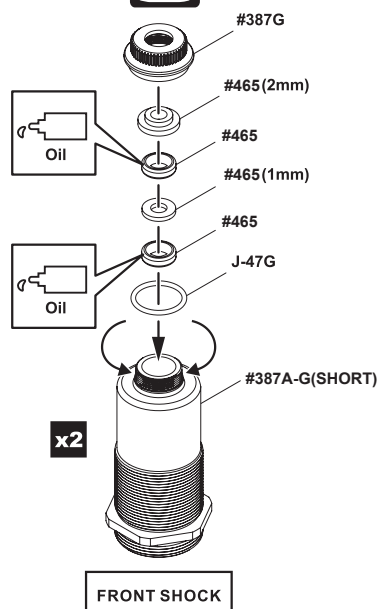
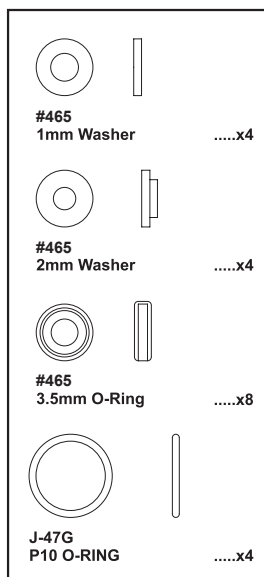
BAG NO.9



54 ASSEMBLY OF THE SHOCK O-RING

BAG NO.9

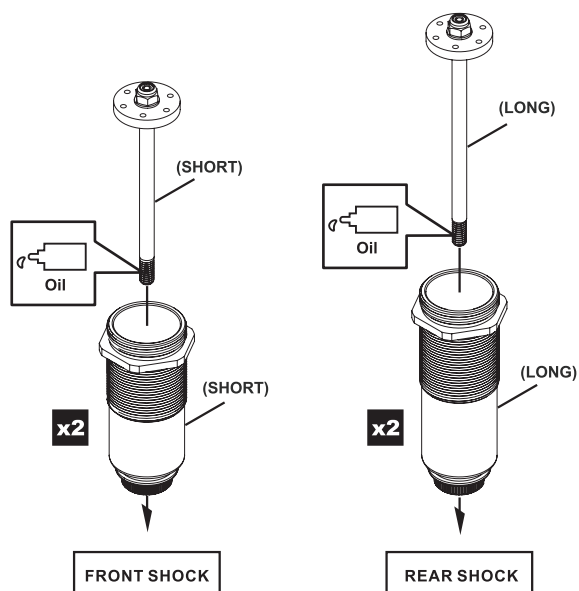
Assemble both left and right sides.



55 ASSEMBLY OF THE SHOCK SHAFTS INTO SHOCK BODIES

BAG NO.9

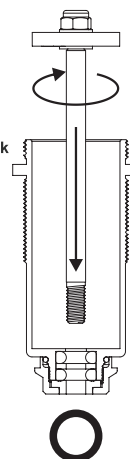
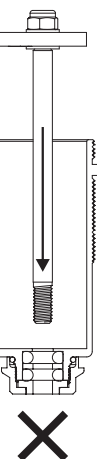
Assemble both left and right sides.



⚠ EXTREMELY IMPORTANT

Do not push the shock shaft straight down, O-ring can be damaged.

Slowly twist the shock shaft down to the bottom.



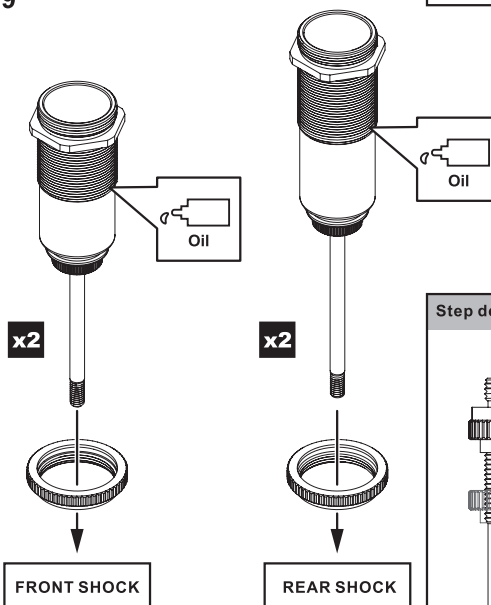
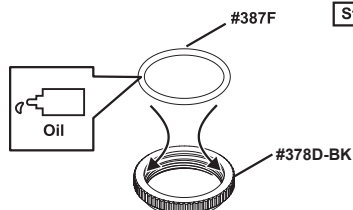
56 ASSEMBLY OF THE SHOCK ADJUST RING

BAG NO.9

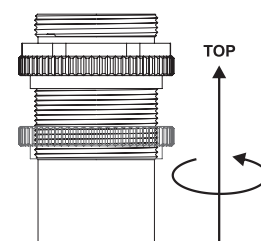
Assemble both left and right sides.

Step 1

Step 2



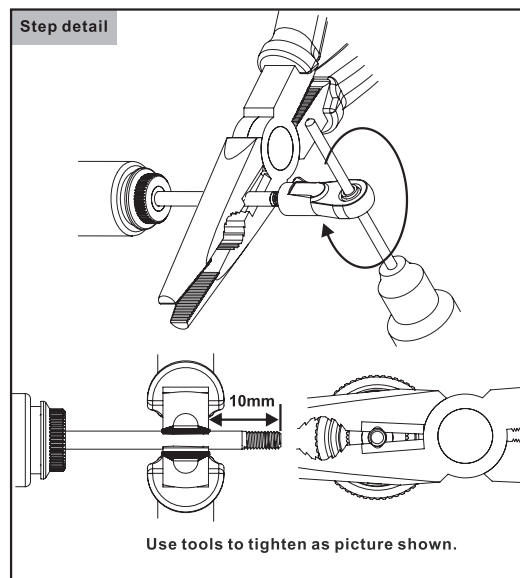
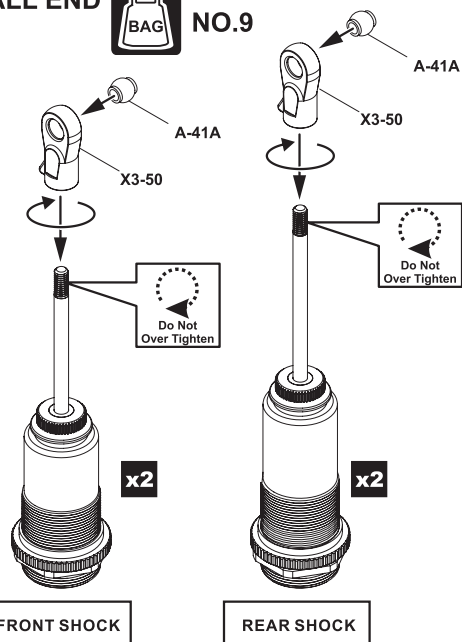
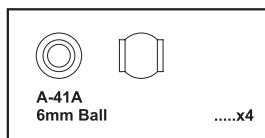
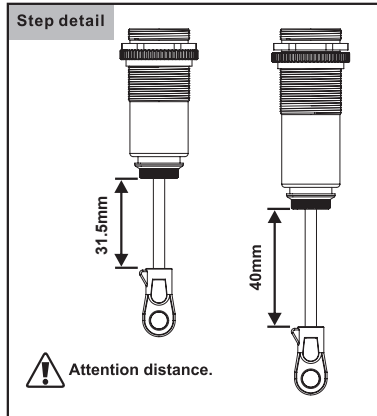
Step detail



57 ASSEMBLY OF THE SHOCK BALL END

BAG NO.9

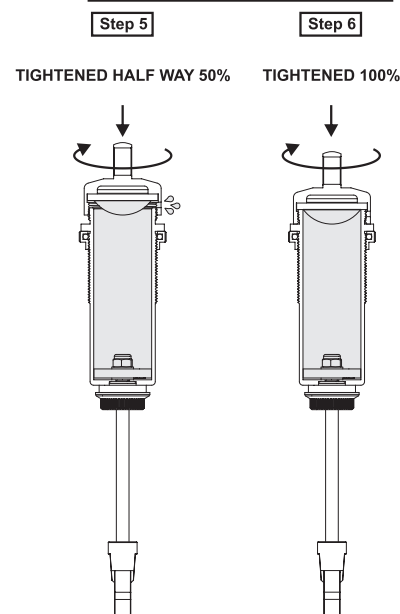
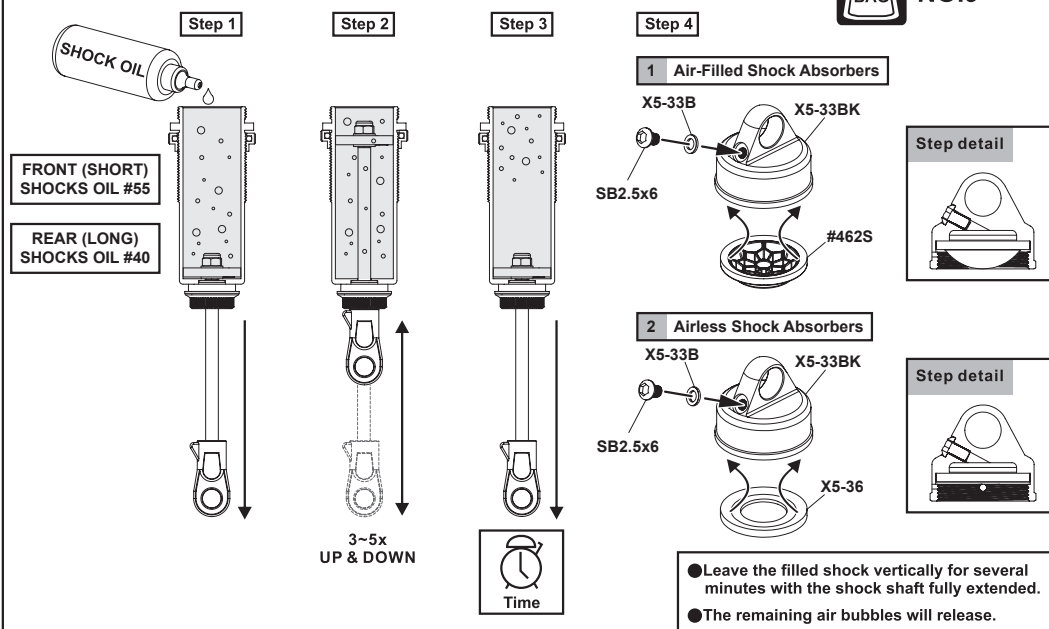
Assemble both left and right sides.



58 SETTING THE SHOCK REBOUND TO 100% (HIGH REBOUND)

BAG NO.9

Assemble both left and right sides.



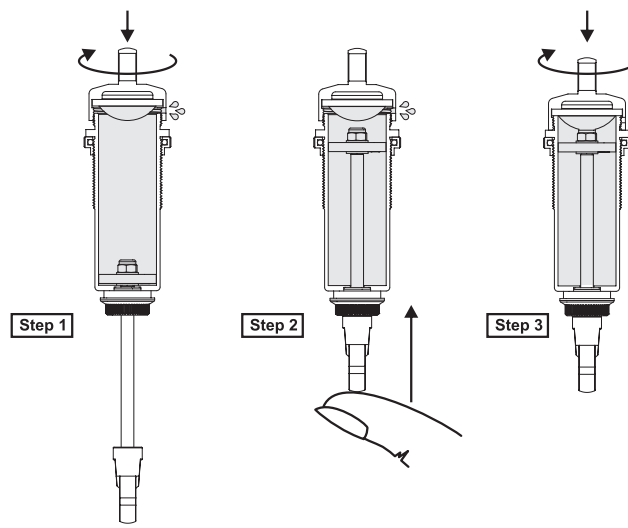
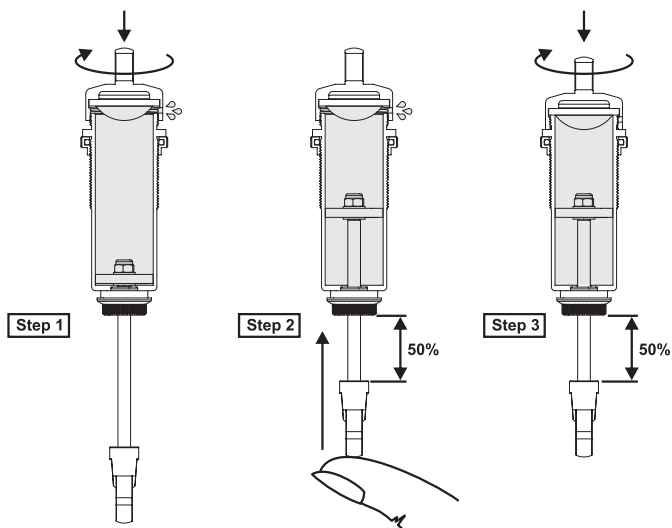
59 SETTING THE SHOCK REBOUND TO 50% & 0% (MEDIUM REBOUND & LOW REBOUND)

TIGHTENED HALF WAY 50%

TIGHTENED 100%

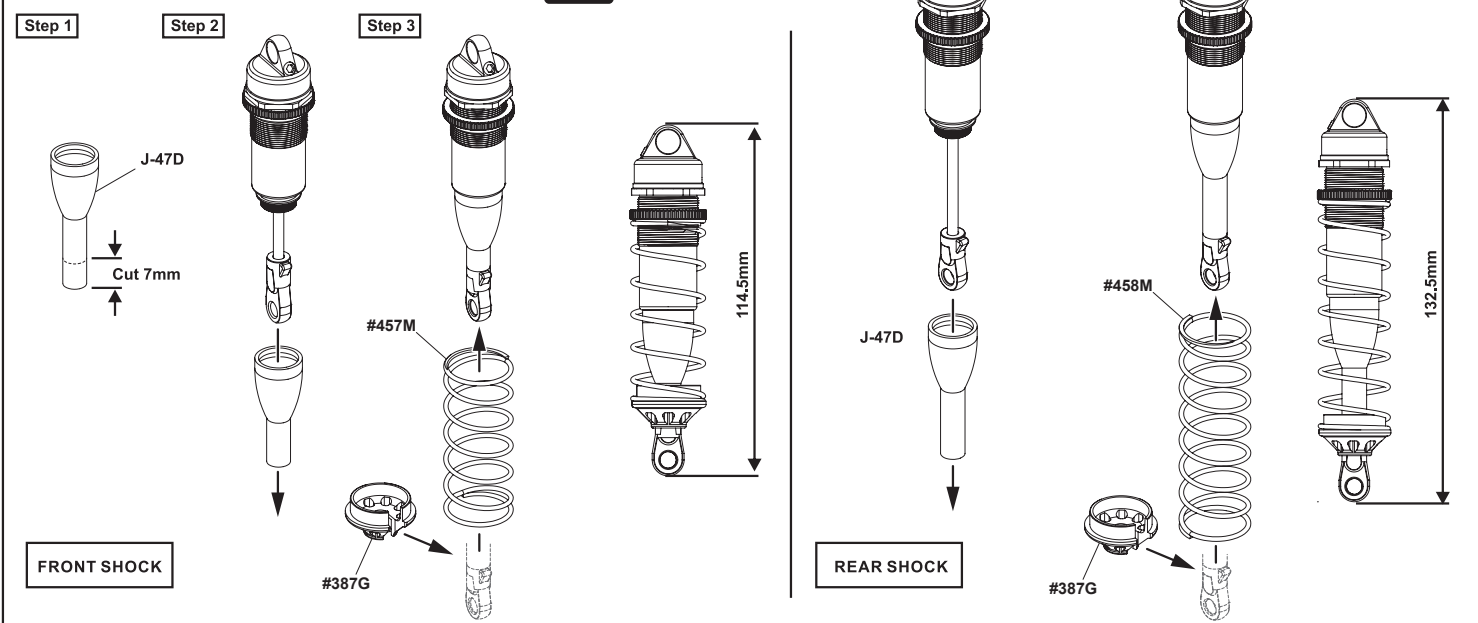
TIGHTENED HALF WAY 50%

TIGHTENED 100%



60 ASSEMBLY OF THE SHOCKS SPRING

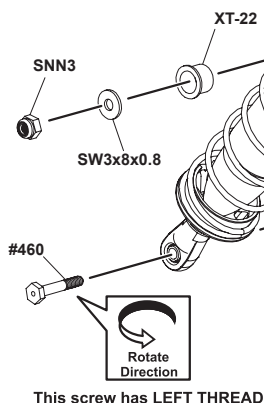
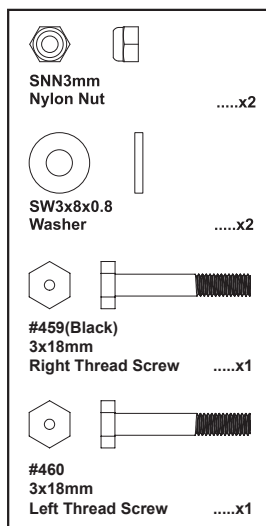
BAG NO.9



61 ASSEMBLY OF THE SHOCKS INTO THE SHOCK STAY

Assemble both left and right sides.

R Right side



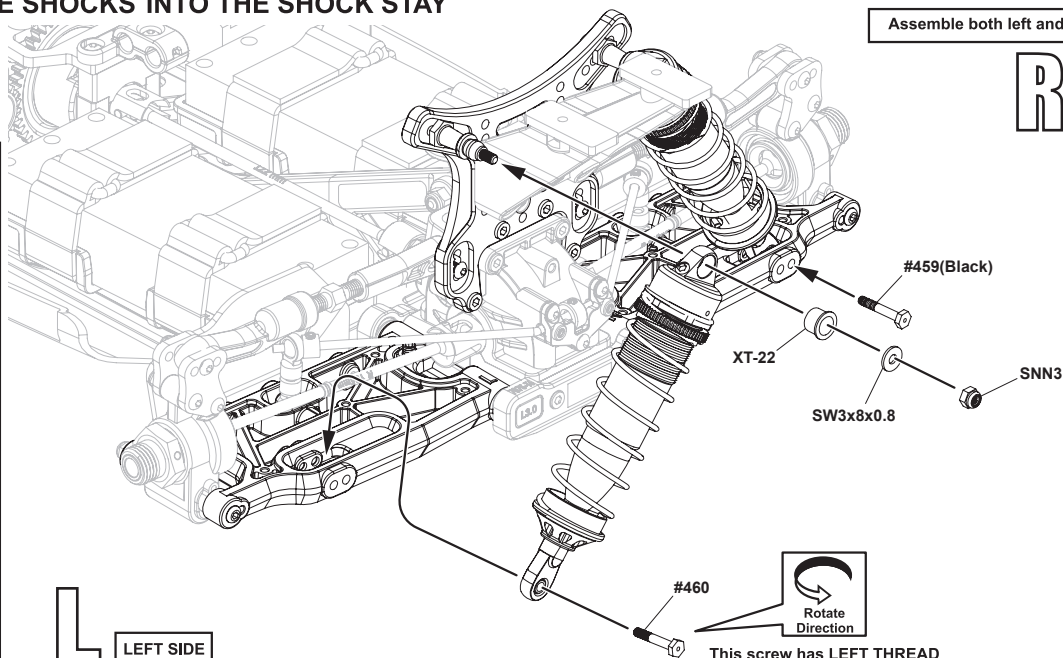
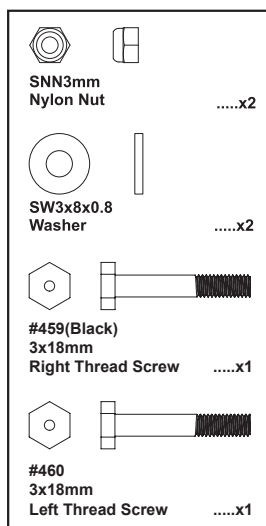
L LEFT SIDE

#459(Black)

62 ASSEMBLY OF THE SHOCKS INTO THE SHOCK STAY

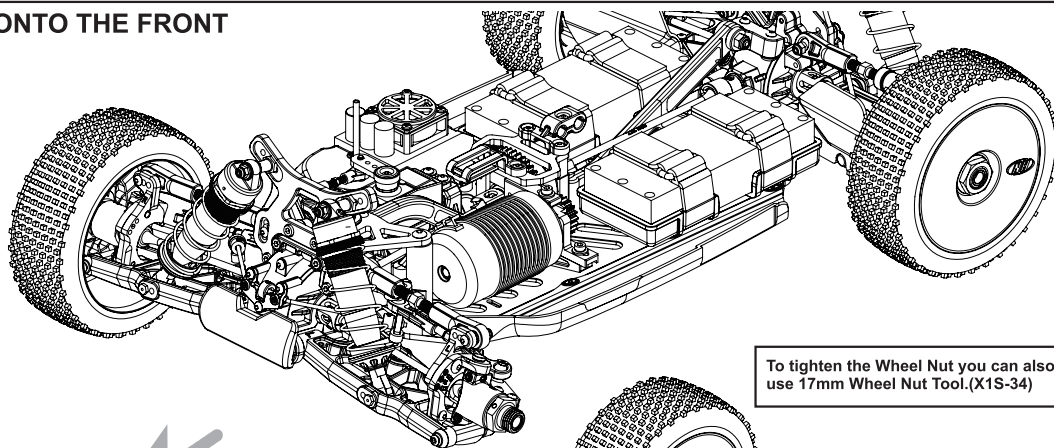
Assemble both left and right sides.

R Right side



63 ASSEMBLY OF THE TIRES ONTO THE FRONT KNUCKLE AND REAR HUB

R Right side

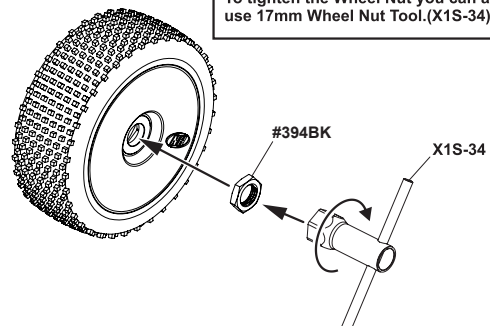


Assemble both left and right sides.



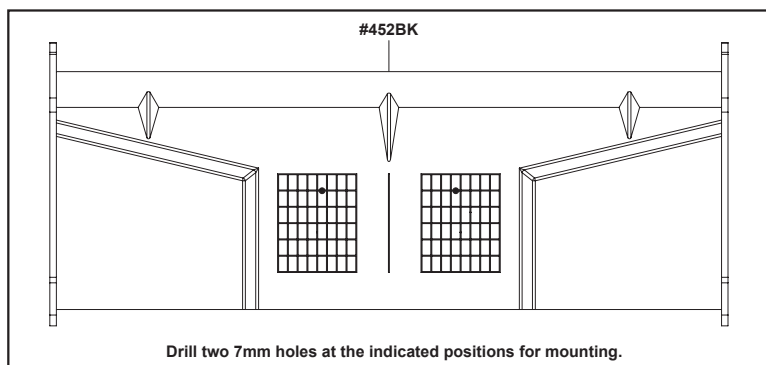
#394BK
Wheel Nutx4

To tighten the Wheel Nut you can also use 17mm Wheel Nut Tool.(X1S-34)



L LEFT SIDE

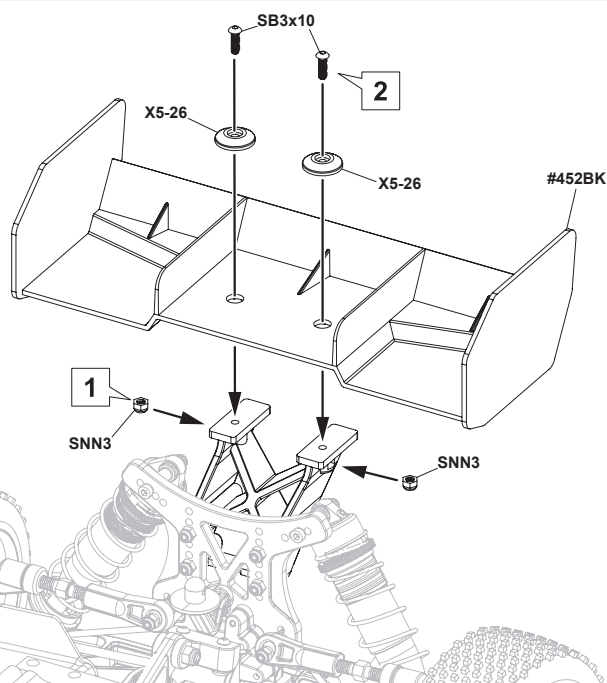
64 ASSEMBLY OF THE WING



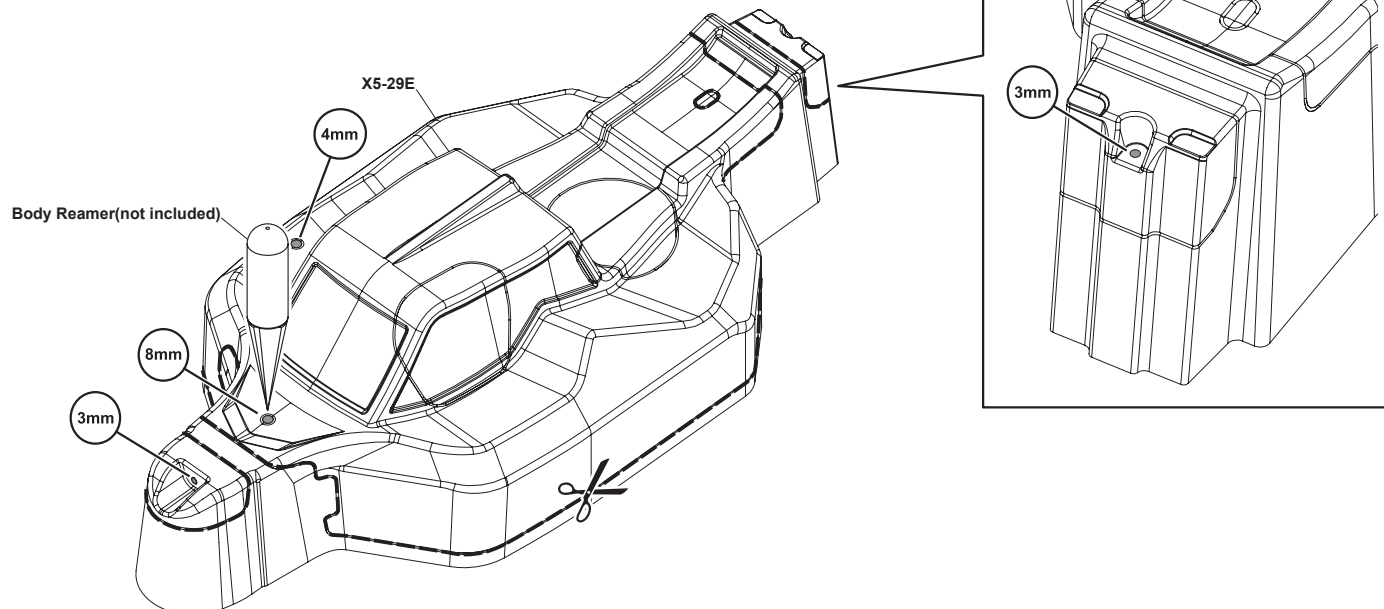
SNN3
Nylon Nutx2



SB3x10mm
Hex Screwx2

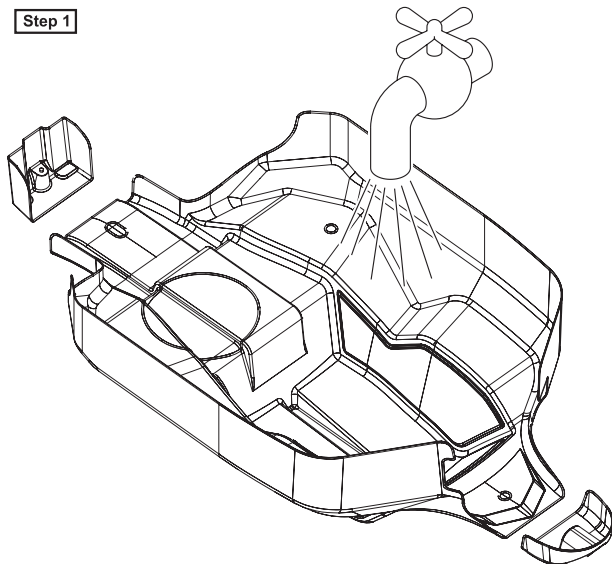


65 MAKING HOLES AND CUTTING ON THE BODY SHELL

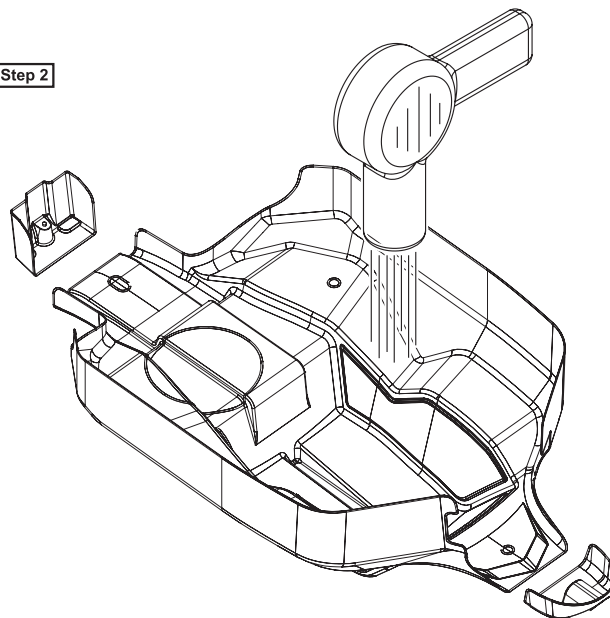


66 WASH THE INSIDE OF THE BODY SHELL

Step 1



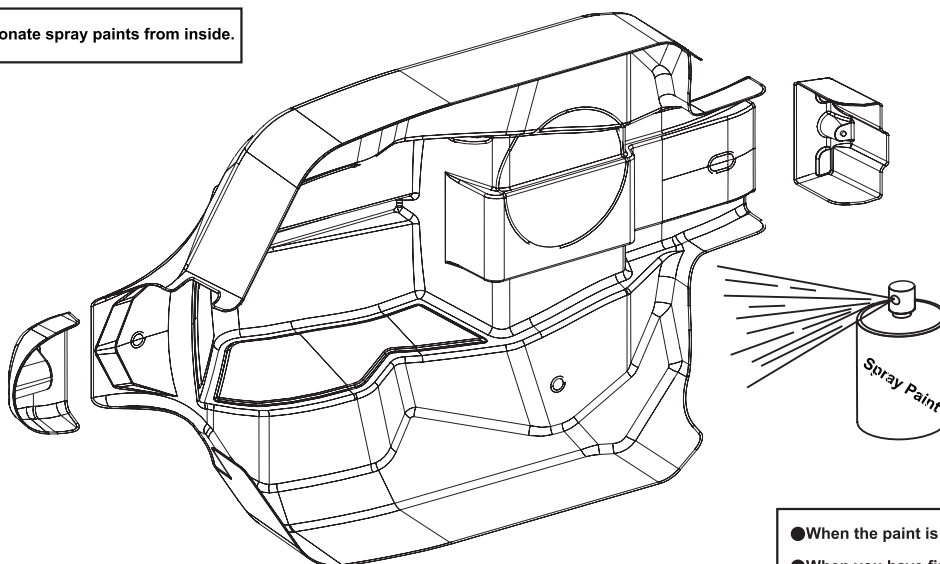
Step 2



Wash the inside of the body shell with mild detergent, and then rinse and dry thoroughly.

67 PAINTING BODY SHELL

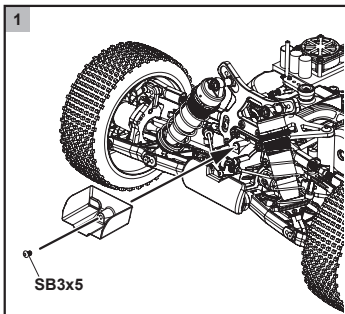
Paint the body with polycarbonate spray paints from inside.



- When the paint is dry, remove the masking tape.
- When you have finished painting, peel off the external protective films.

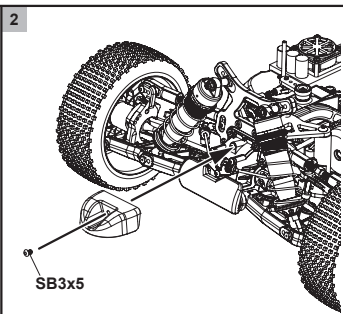
68 MOUNTING THE BODY SHELL

1



SB3x5

2

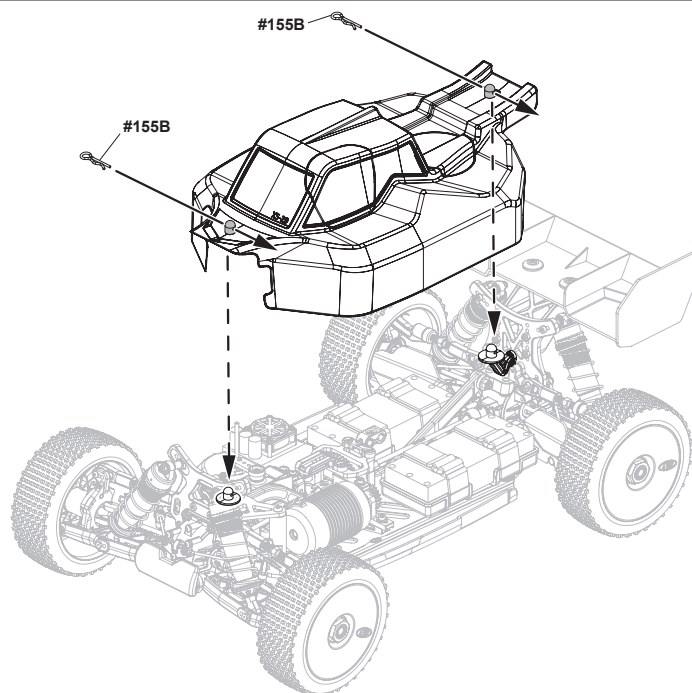


SB3x5



SB3x5mm
Hex Screw

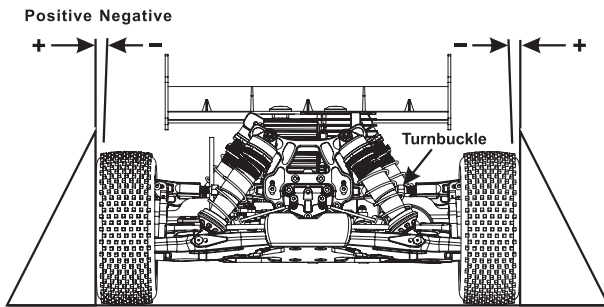
.....x1



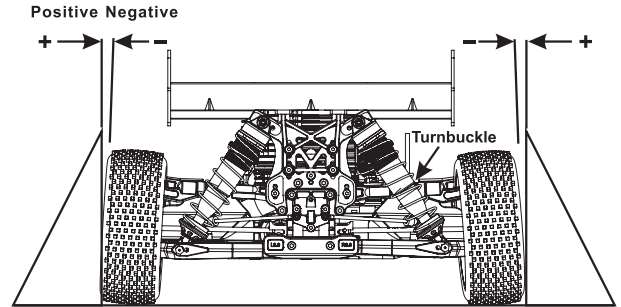
#155B

#155B

FRONT CAMBER ANGLE SETTING

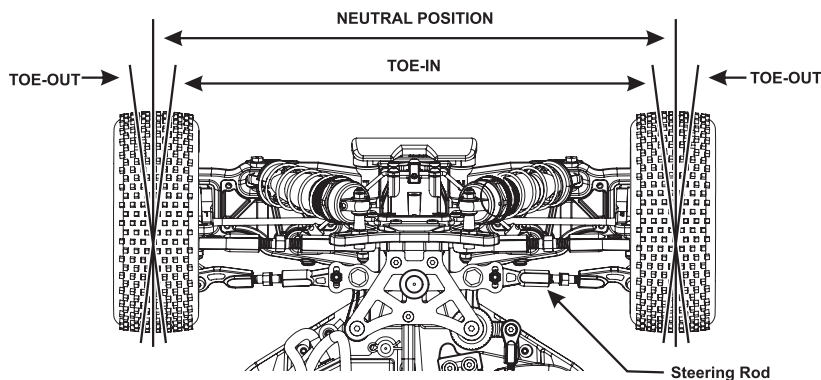


REAR CAMBER ANGLE SETTING



- Place the model car on flat surface. Raise the chassis to its clearance before the wheels leave the ground.
- Adjust the length of the front and rear upper arms so that the wheels are vertical to the ground.
- Adjust the camber angle by turning the turnbuckle rod on the upper arms clockwise or anti-clockwise.
(We suggest to use zero degree for the front and 1.5 degree negative for the rear.)

FRONT TOE-IN AND TOE-OUT SETTING

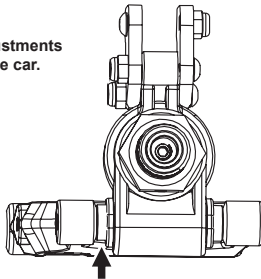
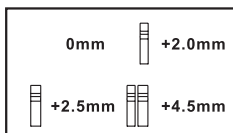


Adjust the length of front steering rod to change the toe angle.

- Making the tie rod longer will make front tires toed in.
Response will be slower and may over steer.
- Making the tie rod shorter will make front tires toed out.
Response will be quicker and may under steer.

REAR WHEELBASE

- Adjust the wheelbase by using the spacers on either side of the rear wheel hub (at the bottompin).
- **IMPORTANT!** Make equal adjustments on both left and right sides of the car.



Shorter wheelbase

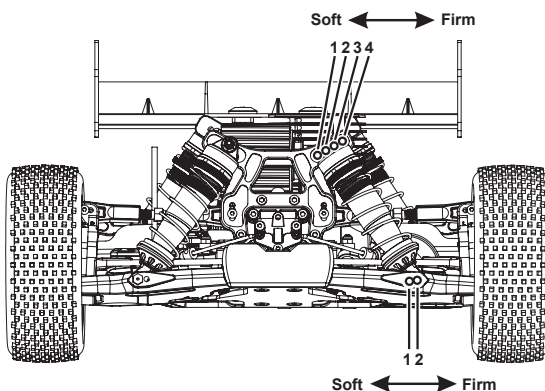
- Less spacers in front of the rear wheel hub.
- Increases rearward weight transfer during acceleration.
- Increases on-power traction.
- Quicker off-power steering into corners.
- Slight tendency to push on-power at corner exit.
- Increases steering response.
- Better on tighter, more technical tracks.

Longer wheelbase

- More spacers in front of the rear wheel hub.
- Decreases off-power steering into sharp corners.
- Increases stability.
- Slower initial steering reaction(off-power).
- Improves on-power steering at corner exit.
- Better handling over bumps and ruts.
- Better on more open tracks with high-speed corners.

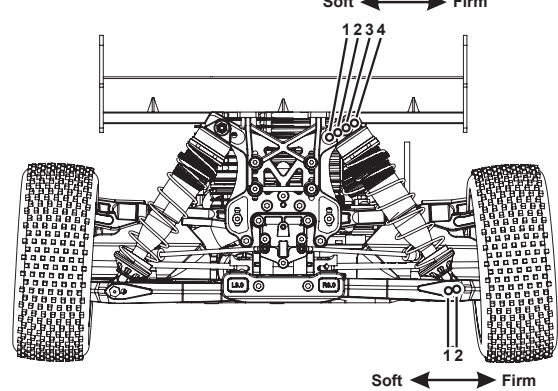
- Different shock positions will result in firmer or softer response of the suspension system.
- Install the shock in an inward angle will cause softer rebound. Softer or firmer suspension system will lead to different steering response.
- Adjust the shock angle positions according to track conditions.

FRONT SHOCK ANGLE SETTING



Firm front suspension, less steering.
Soft front suspension, more steering.

REAR SHOCK ANGLE SETTING



Firm rear suspension, over steering.
Soft rear suspension, under steering.

IX5B SETUP SHEET

NAME _____ RACE _____ DATE _____
 TRACK _____ CITY/COUNTRY _____ TRACK CONDITION _____

AIR TEMP _____ F° _____ °C

LAPS _____

BEST LAP TIME _____

in LAP

TRACK SIZE

☐ OPEN ☐ MEDIUM ☐ TIGHT

TRACK TRACTION

☐ HIGH ☐ MEDIUM ☐ LOW

DIFFERENTIAL OIL

FRONT CENTER REAR

☐ STD ☐ STD ☐ STD

OIL wt.

FRONT CENTER REAR

GEARING

SPUR GEAR _____ T

PINION GEAR _____ T

TIRES

FRONT TYPE _____

COMPOUND _____

INSERT FOAM _____

REAR TYPE _____

COMPOUND _____

INSERT FOAM _____

ELECTRIC MOTOR

TURN _____ /

RPM _____

KV _____

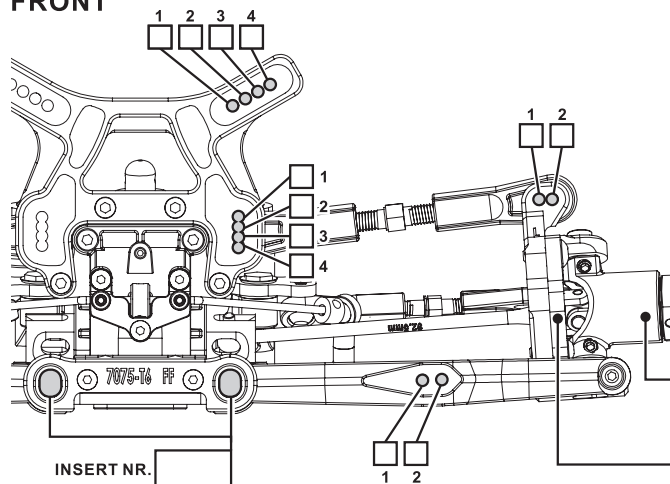
BRAND _____

ELECTRIC SPEED CONTROLLER

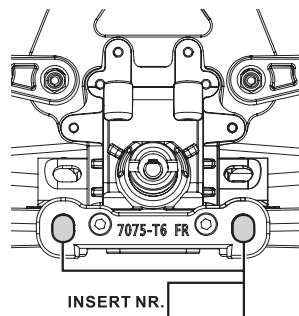
BRAND _____

TYPE _____

FRONT



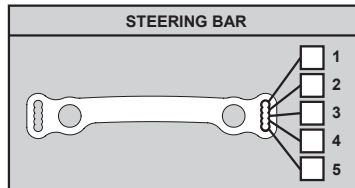
INSERT NR. _____



INSERT NR. _____



STEERING BAR



RIDE HEIGHT	mm
SWAY BAR	mm
CAMBER ANGLE	°
TOE ANGLE	°
☐ PLASTIC ☐ ALUM	

STEERING BLOCK

☐ +2° ☐ +4°

FRONT SPINDLE CARRIERS CASTER

☐ 15° ☐ 17.5° ☐ 20°

SHOCK

SHOCK LENGTH _____ mm

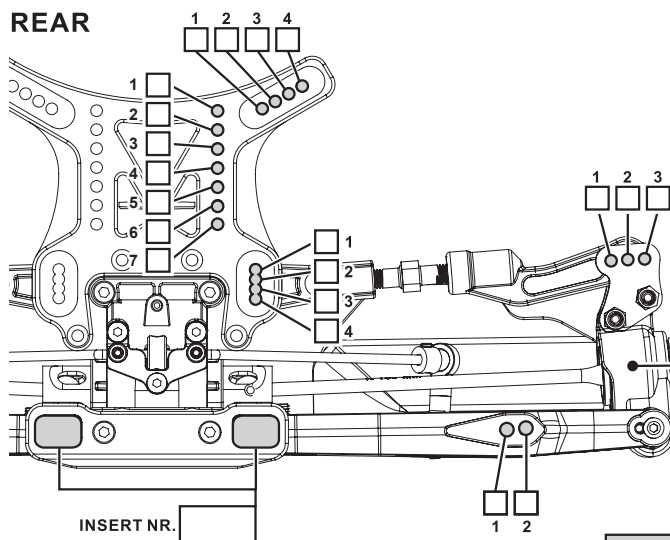
OIL wt. _____

PISTON _____

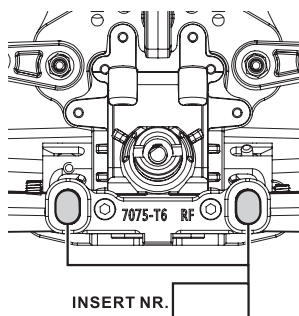
SPRING _____



REAR



INSERT NR. _____



INSERT NR. _____



RIDE HEIGHT	mm
SWAY BAR	mm
CAMBER ANGLE	°
☐ PLASTIC ☐ ALUM	

WHEEL HUB

☐ PLASTIC ☐ ALUM

REAR HUB BUSHING

☐ ☐ ☐

SHOCK

SHOCK LENGTH _____ mm

OIL wt. _____

PISTON _____

SPRING _____



WHEELBASE SHIMS

☐ 0mm ☐ 2mm

☐ 2.5mm ☐ 4.5mm

iX5B PARTS LIST

Part No.	Description	Q'TY	Part No.	Description	Q'TY
A-34B	Stabilizer Ball End	2	X5-09B	Carbon Steering Block Arm Set	1set
A-41A	6mm Ball	6	X5-10	Alum. Swaybar Pin	2
C-27	Servo Fixing (Lay down)	1set	X5-15	Front CVD Drive Shaft 92.5mm	2
E-37	6mm Ball & Socket	6	X5-16	Servo Saver Post	2
G-25	7mm Ball	6	X5-17	5x50mm Turnbuckle	2
G-26	5x35 Turnbuckle	2	X5-18	Steering King Pin	4
J-03A	P-6 O-Ring	2	X5-19	Anti-roll Bar Collet	2
J-20	Diff Bevel Gear Shim 13x16x0.2mm	4	X5-20	Servo Saver Spring	1
J-33	Steering Plate Hex Screws	2	X5-21	Gear Case	1set
J-47D	Shock Shaft Dust Covers	4	X5-22	Lower Arm Front	1set
JS-06B	Bearing 4x8 Flange	2	X5-23	Lower Arm Rear	1set
JS-14B	6x10 Ball Bearing	4	X5-24	Receiver/ Battery Box	1set
K-11A	Insert for Servo Saver	1set	X5-25A	Rear Hub L, R	1set
LS-28A	3x20mm Turnbuckle	2	X5-25B	Carbon Rear Plates	2
TM-48	Stabilizer Ball End	8	X5-26	Wing Mount	1set
X1-10H	Servo Saver Tube, Hard-Coated	1	X5-27	Diff. Cap Joint (Lightweight)	2
X1-26-G	Alum. Wheel Hub.(Gold)	2	X5-29E	X5B Clear Body EP	1
X1-27	Knuckle Arm Bushing	4	X5-30	Steering Servo Saver Alum.	1
X1-31	Shock Ball End Post/ One-Piece/ Top	4	X5-33	16mm Alum. Aeration Shock Cap	2
X3.6-07	4x67.6mm Arm Shaft	2	X5-34	Center Drive Shaft. 94mm	1
X3-01	Spiral Bevel Gear 43t	1	X5-35	Center Drive Shaft. 121mm	1
X3-02	Spiral Bevel Gear 13t	1	X5-36	Seal Bleeder Cap	4
X3-03	Diff. Gear 10Tx4, 20Tx2	1set	X5-37	Servo Saver Dust Cover	2
X3-06	Drive Shaft Insert, 2.5 x12.8 Pin	4	X5-38 2.3	Front Anti-roll Bar 2.3mm	1
X3-07	CVD Wheel Axle	2	X5-39 2.5	Rear Anti-roll Bar 2.5mm	1
X3-31	7x8.5mm Ball & Socket	4	X5-40 2.0	3.6x8x2mm Alum. Washer	2
X3-32	7x12mm Ball & Socket	4	X5-40 2.5	3.6x8x2.5mm Alum. Washer	2
X3-34	2.5x11.8 Pins	10	X5-41	Servo Saver Adjuster Oring	1set
X3-35	2.5 x12.8 Pins	10	X5-42A	Rear CVD Drive Shaft 106mm	2
X3-38	Diff Gasket 31x20x0.3	3	X5-43	Camberlink Balljoint	2
X3-40	4x10 Round Head Set Screw	4	X5-46	Carbon Center Diff Top Plate	1
X3-43	Diff. Case (F&R)	1	X5-48	Battery Holder	2
X3-46	Suspension Bracket Inserts	1set	X5-49	Receiver/ ESC/ Servo Holder	1set
X3-49	Body Post/Center Brace	1set	X5-50	Side Guard 2.R	1set
X3-50	Plastic Rod End	1set	X5-51	CNC 7075-3mm Lightweight Chassis. EP	1
X3-52	Front Bumper / Rear MudGuard	1set	X5-52	Topdeck Carbon	1
X3GT-40	Cup Joint For Planet Gear	2	XT-22	Plastic Shock Parts Set	1
X3GT-71E	Fixing Pin	2	XT-31	Plastic Center Diff. Mount	1set
X3S-04	Diff. Cap Joint (Lightweight)	2	#155B	Body Clips	4
X3S-16	Rear Upright 3.5mm	2	#267D	Bearing 8x16x5mm	8
X3S-44C	4x35mm Turnbuckle	2	#267E	Needle Roller 2.5x16.8	4
X3S-44D	CNC Alum. Servo Saver Connecting Plate	1	#312-BK	Universal Servo Horn, Black	1set
X5-02	CNC 7075 Front Shock Tower	1	#315A	Shock Shafts (Front)	2
X5-03	CNC 7075 Rear Shock Tower	1	#316A	Shock Shafts (Rear)	2
X5-04	CNC 7075 Suspension Bracket, FR	1	#363	Alum. Diff Cross Pin (Hard-Coated)	6
X5-05	CNC 7075 Suspension Bracket, FF	1	#387A-G	16mm Front Shock Body	2
X5-06	CNC 7075 Suspension Bracket, RF	1	#387B-G	16mm Rear Shock Body	2
X5-07	CNC 7075 Suspension Bracket, RR	1	#387D-BK	16mm Shock Spring Adjuster, Black	4
X5-08	Alum.Angle Adjustable C-Hub Set	1set	#387F	19x1.5mm O-Ring	4
X5-09A	Steering Block Set	1set	#387G	Plastic Shock Spring Holder	1set

iX5B PARTS LIST

[illegible]



**1/8 HIGH PERFORMANCE
OFF ROAD
ELECTRIC BUGGY**

HONG NOR

Hong Nor Hobbies International Co., Ltd.

5F., No. 14, Wuquan 7 th Rd., Wugu Dist., New Taipei

City, 24890, Taiwan

Tel: +886-2-2888-1221

Fax: +886-2-2888-3533

www.hongnor-racing.com