

X5B

INSTRUCTION MANUAL

OFF ROAD NITRO BUGGY 1/8 HIGH PERFORMANCE



PERFORMANCE FEATURES

- NEW DIFFERENTIAL HOUSING DESIGN ALLOWS FOR QUICK DIFFERENTIAL SWAPS / QUICK-ACCESS FRONT AND REAR DIFF DESIGN
- SPECIAL HIGH-PERFORMANCE BRAKE PAD MATERIAL
- 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
- LIGHT WEIGHT FRONT, REAR AND CENTER DIFFERENTIALS
- COMPLETE SET OF LIGHT WEIGHT OUT DRIVES
- 7075 CNC 5MM ALUMINIUM FRONT AND REAR SHOCK TOWERS
- 7075 CNC ARM HOLDER AND TOE PLATE
- 7075 3MM LIGHTENED CHASSIS WITH COUNTERSUNK SCREWS
- COMPOSITE RADIO TRAY, ENCLOSED BATTERY AND RECEIVER BOX
- COMPLETE HIGH PERFORMANCE BEARING SET
- SIDE LOADED CALIPER WITH RETURN SPRINGS
- FRONT / REAR CHASSIS RESERVATION SPACE FOR COUNTER WEIGHT AT FRONT / REAR CHASSIS
- CNC MACHINED HARDENED 13 TOOTH BEVEL PINION GEAR
- CNC MACHINED HARDENED 45 TOOTH BEVEL GEAR
- 4 SHOE CLUTCH SET
- 2.5MM CARBON FIBER CENTER UPPER PLATE

ADDITIONAL PARTS NEEDED

- ENGINE/MOTOR.
 - 2 CHANNEL RADIO.
 - GLOW PLUG.
 - GLOW PLUG IGNITOR.
 - STARTER BOX OR STARTER.
 - BATTERIES.
 - PAINT.
 - RC CAR FUEL (20%)
- KIT IN INSTRUCTION MANUAL MAY BE DIFFER FROM PICTURE SHOWN.
• ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

HONG NOR
QUALITY RC MODEL PRODUCTS

THIS IS NOT TOY !

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

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• INSTALLATION INSTRUCTION	02
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• SPARE PARTS LIST	35

WARNINGS

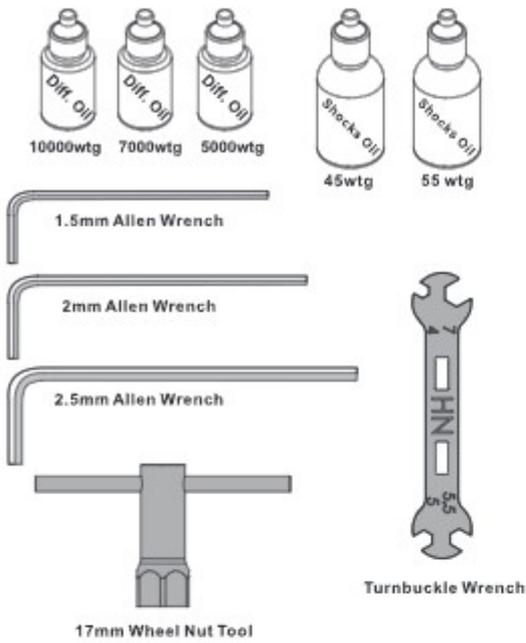
- This product is not intended for those under 14 years of age without proper adult supervision. The product is not a toy. It is a precision machine requiring proper assembly and setup to avoid accidents and it is the responsibility of the owner to operate this product in a safe manner as it can cause 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

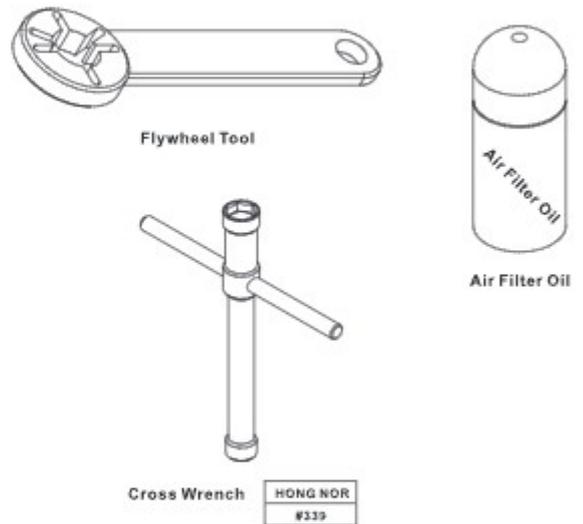
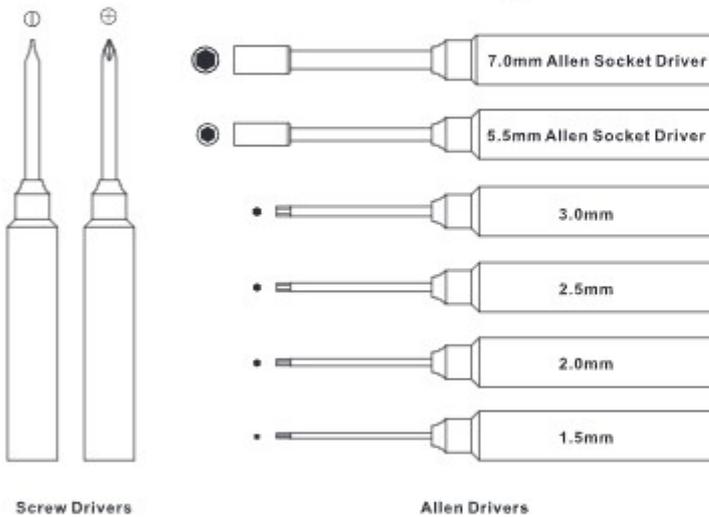
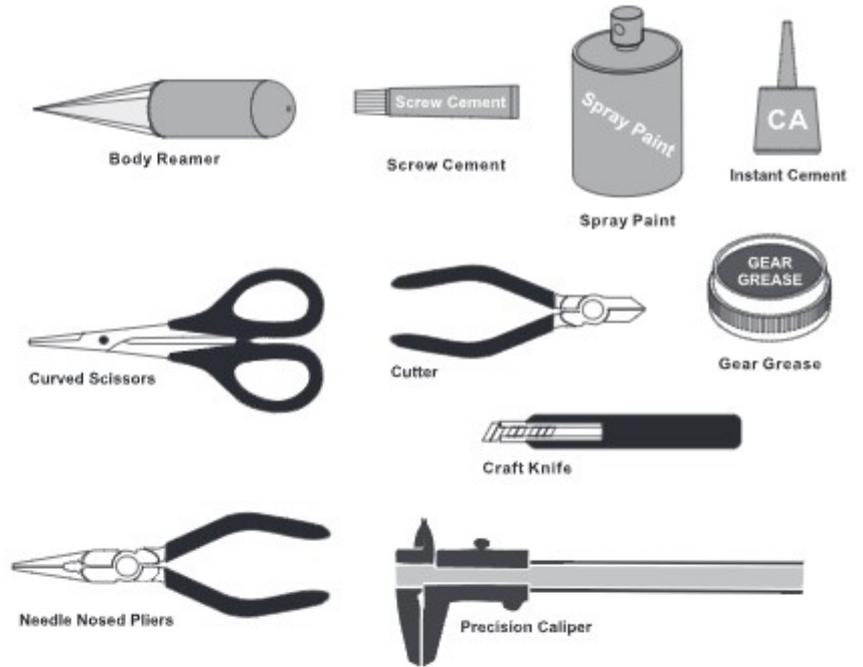
- Don't drive your model car when it raining or thundering to keep safety.
- Keep your model car in dry normal temperature condition, and keep away from water.
- Please do not use other optional parts to install our model car if you can not make sure it can match your car or not. And please do don't 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

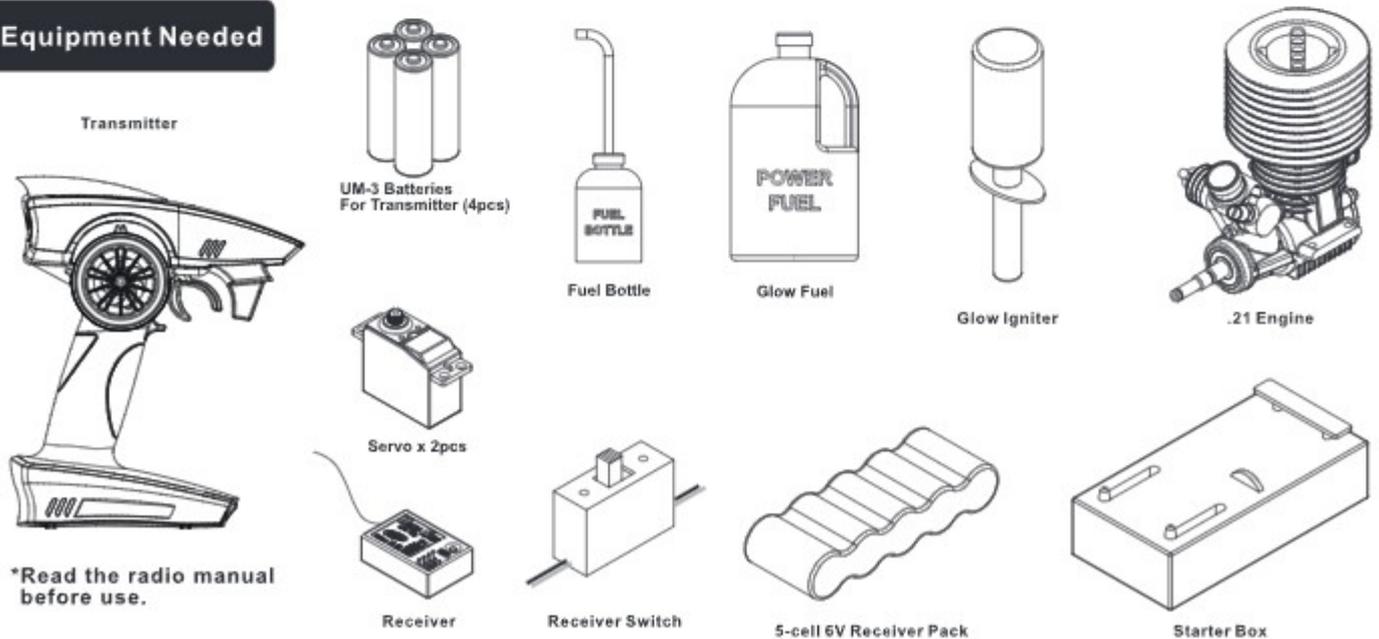
INCLUDED ITEMS



TOOLS NOT INCLUDED IN THE KIT



Equipment Needed



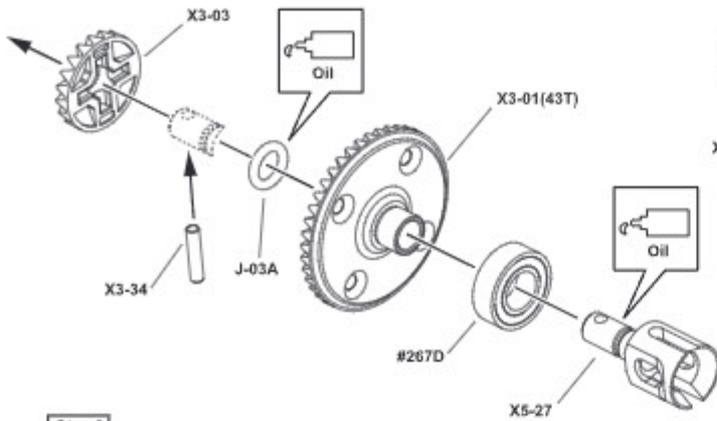
1 ASSEMBLY OF THE FRONT AND REAR DIFF.



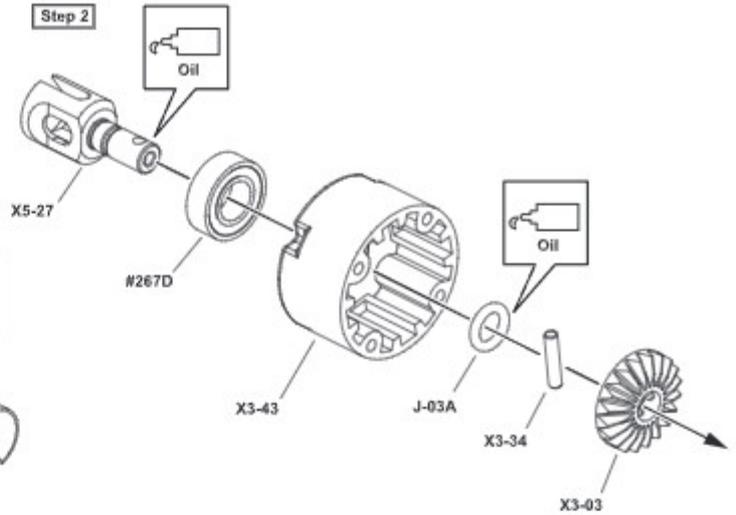
NO.1

Build two differentials for front and rear.

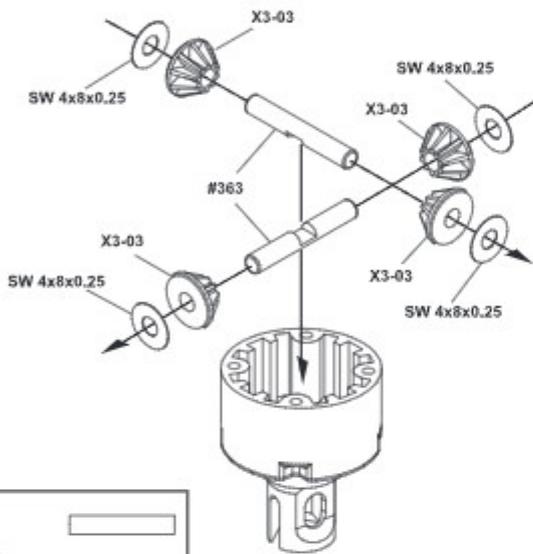
Step 1



Step 2



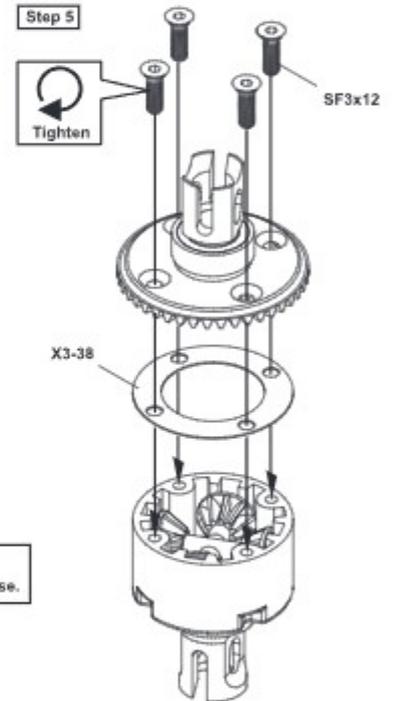
Step 3



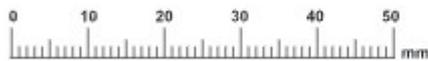
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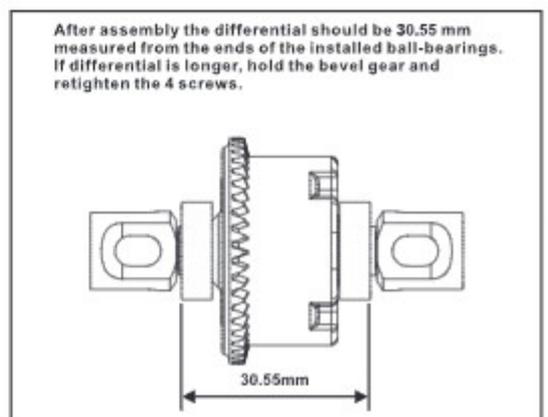
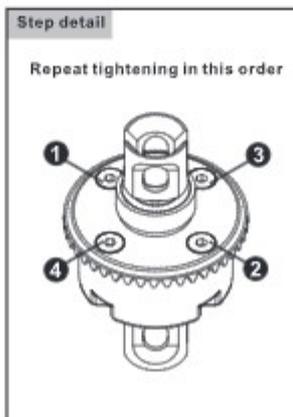
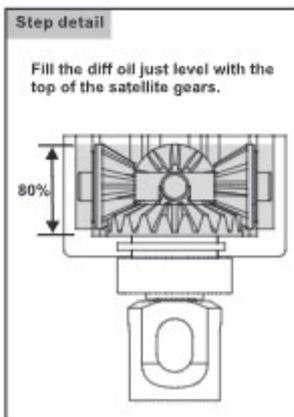
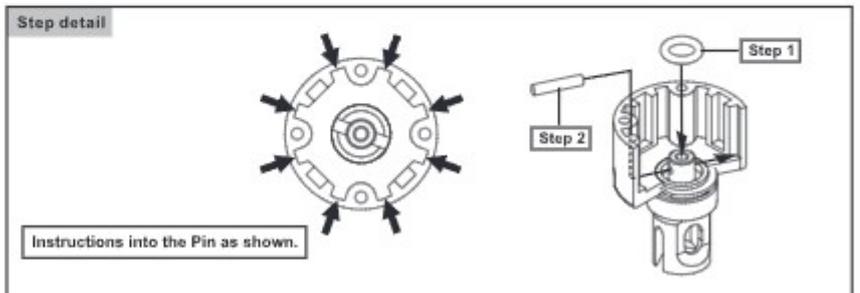
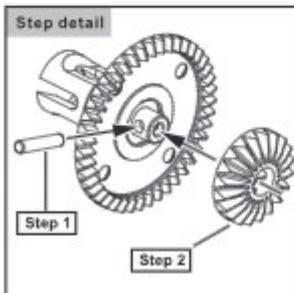
Step 5



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



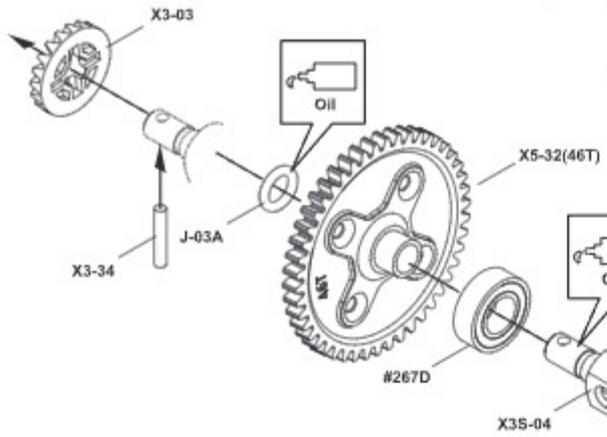
	X3-34 2.5x11.8mm Pin	.....x4
	J-03A P6 O-Ring	.....x4
	#267D 8x16x5mm Ball Bearing	.....x4
	SW 4x8x0.25 4x8x0.25mm Washer	.....x8
#363 Cross Pin"/>	#363 4mm Alum. Cross Pin	.....x4
	SF3x12mm Flat Head Hex Screwx8



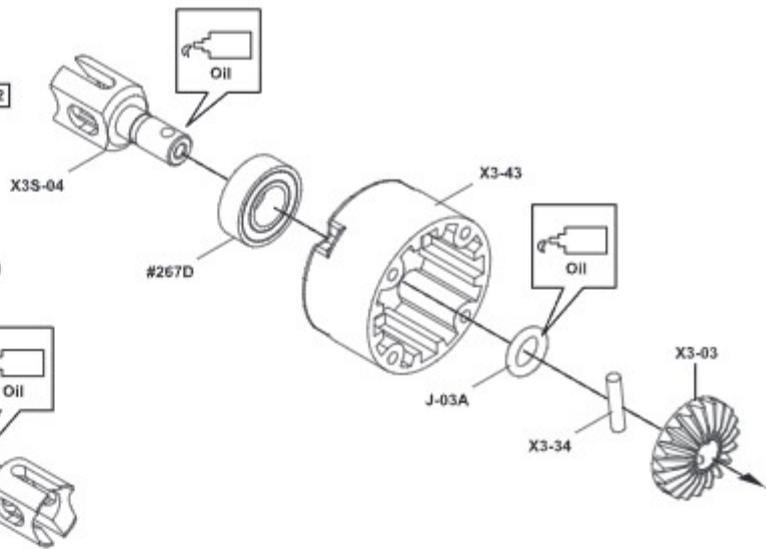
2 ASSEMBLY OF THE CENTER DIFF.



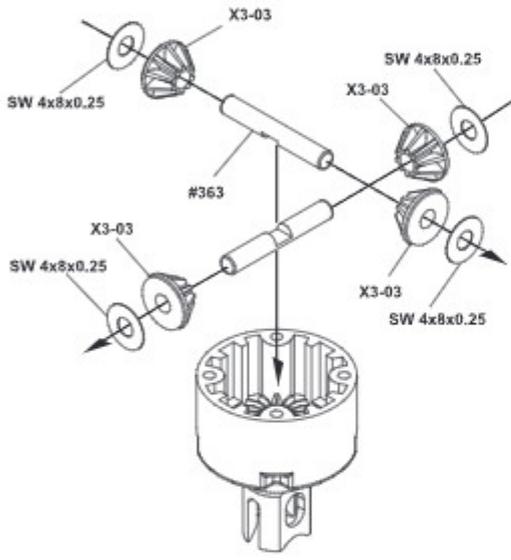
Step 1



Step 2



Step 3

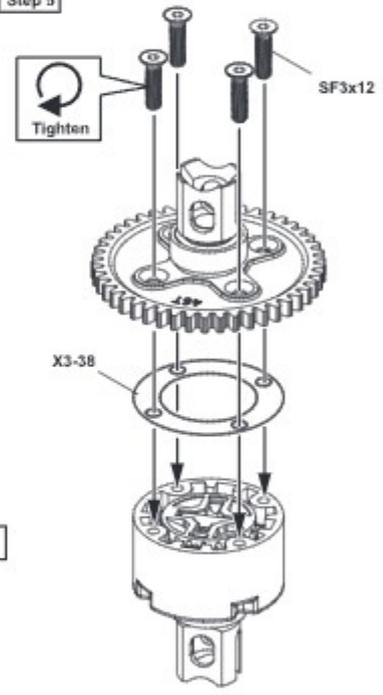


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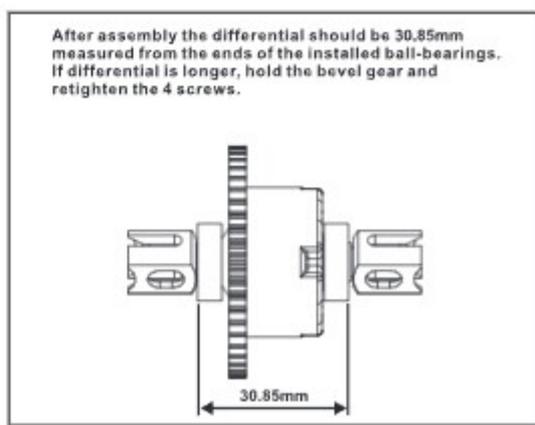
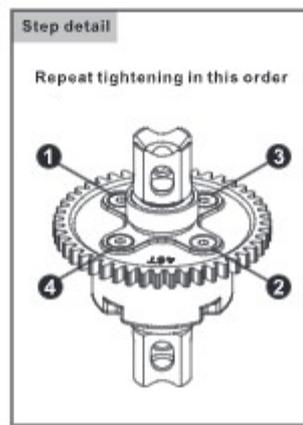
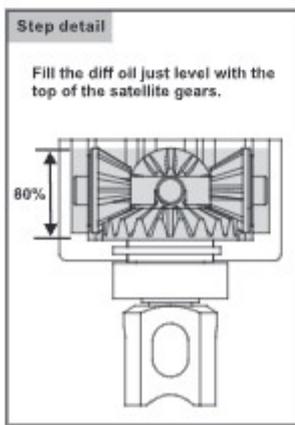
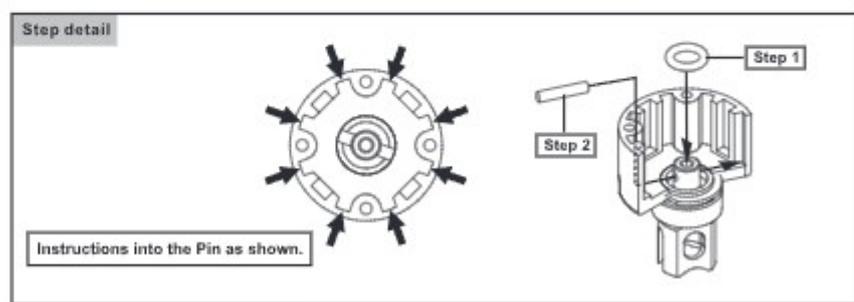
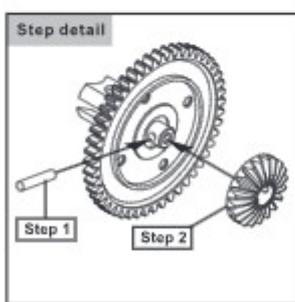
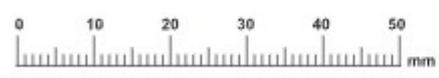


Use the Diff. Oil #10000 for the center diff.

Step 5



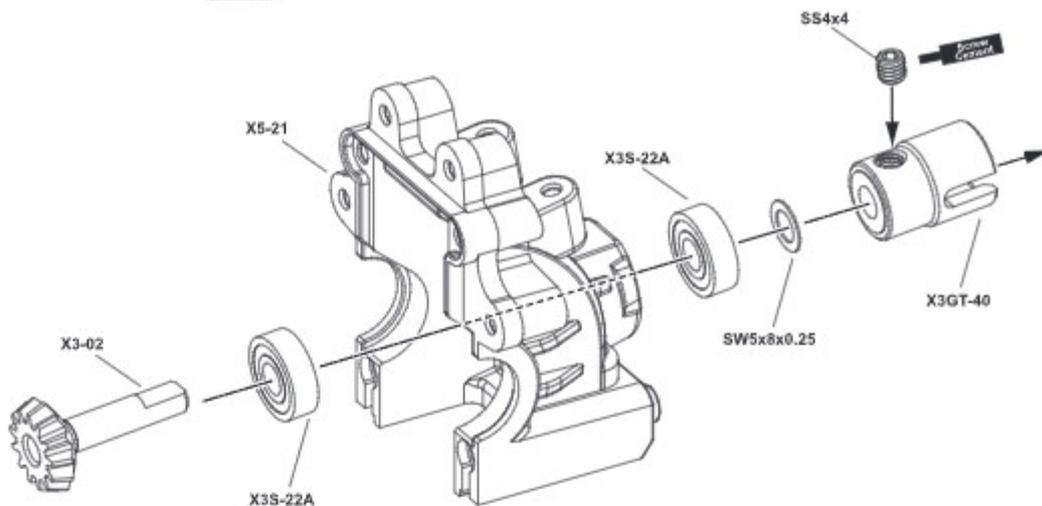
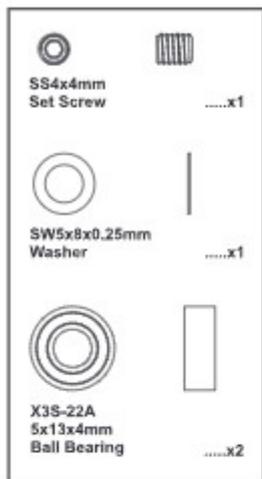
- X3-34
2.5x11.8mm Pinx2
- J-03A
P6 O-Ringx2
- #267D
8x16x5mm
Ball Bearingx2
- SW 4x8x0.25
4x8x0.25mm
Washerx4
- #363 cross pin"/> #363
4mm Alum. Cross Pinx2
- SF3x12mm
Flat Head Hex Screwx4



3 ASSEMBLY OF THE FRONT GEAR CASE



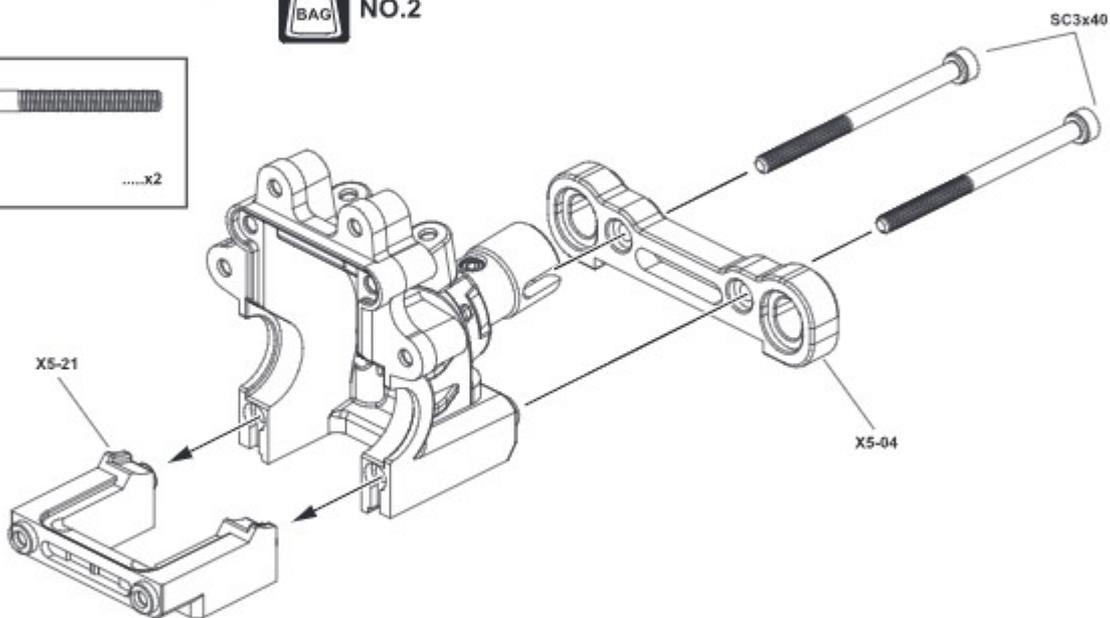
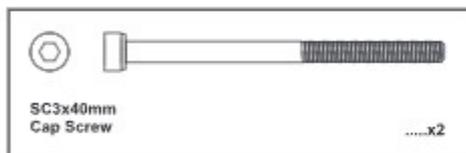
NO.2



4 ASSEMBLY OF THE FRONT GEAR CASE



NO.2

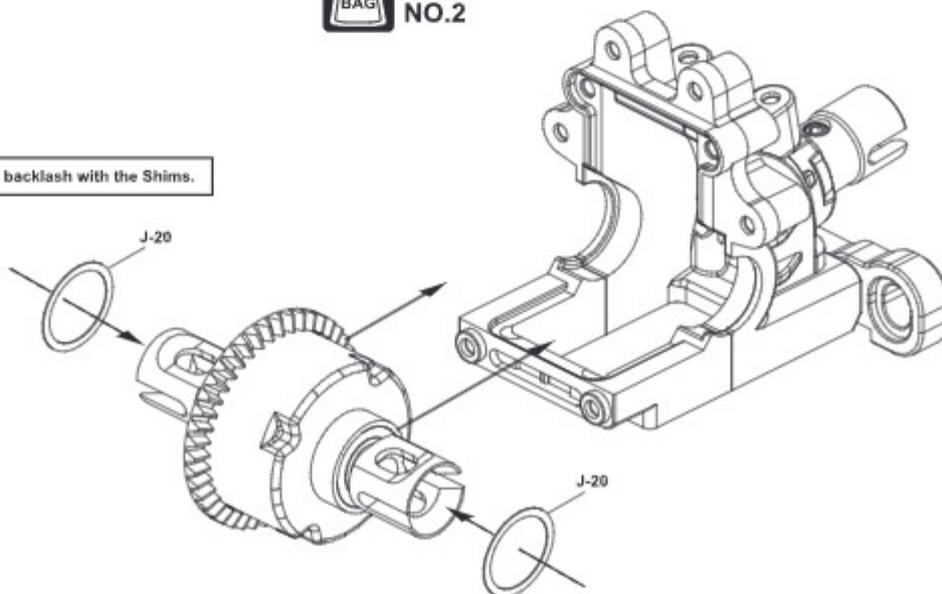
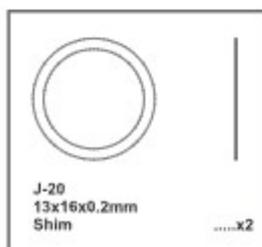


5 ASSEMBLY OF THE FRONT DIFFERENTIAL INTO GEAR CASE



NO.1
NO.2

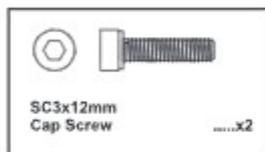
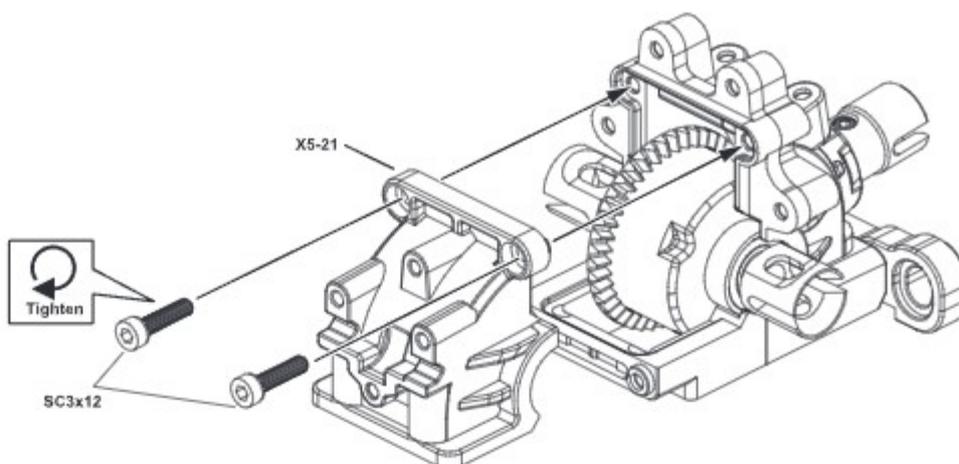
Adjust the backlash with the Shims.



6 ASSEMBLY OF THE FRONT GEAR CASE COVER



NO.2



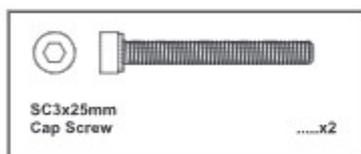
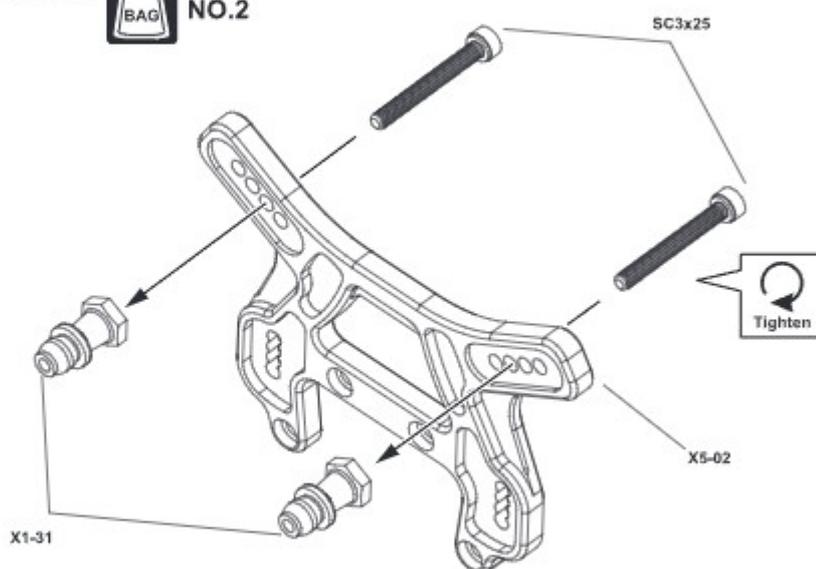
SC3x12mm
Cap Screw

.....x2

7 ASSEMBLY OF THE FRONT SHOCK STAY



NO.2



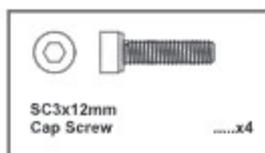
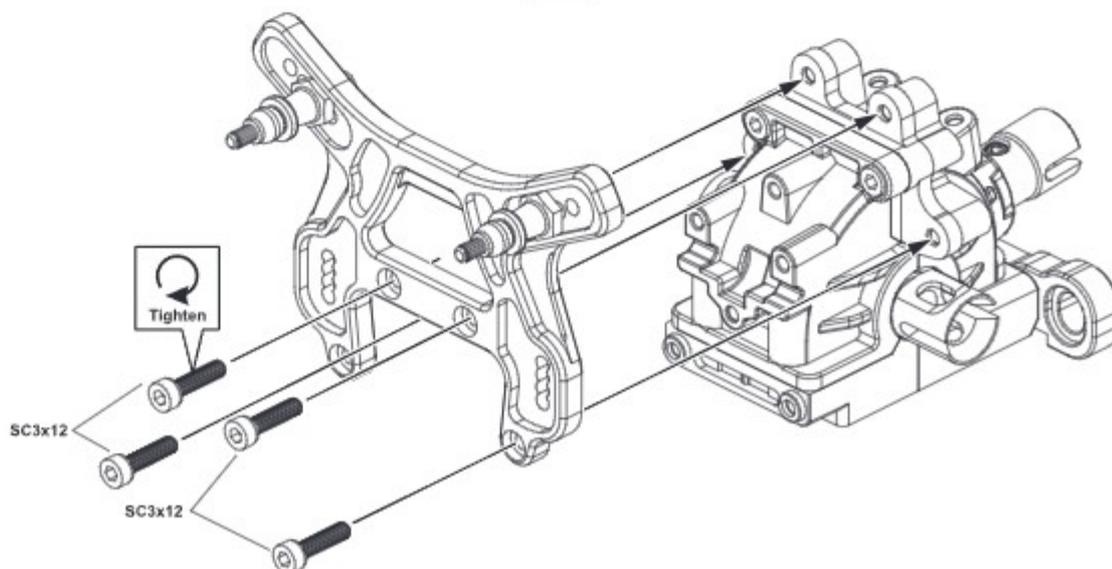
SC3x25mm
Cap Screw

.....x2

8 ASSEMBLY OF THE FRONT SHOCK STAY ONTO GEAR CASE



NO.2



SC3x12mm
Cap Screw

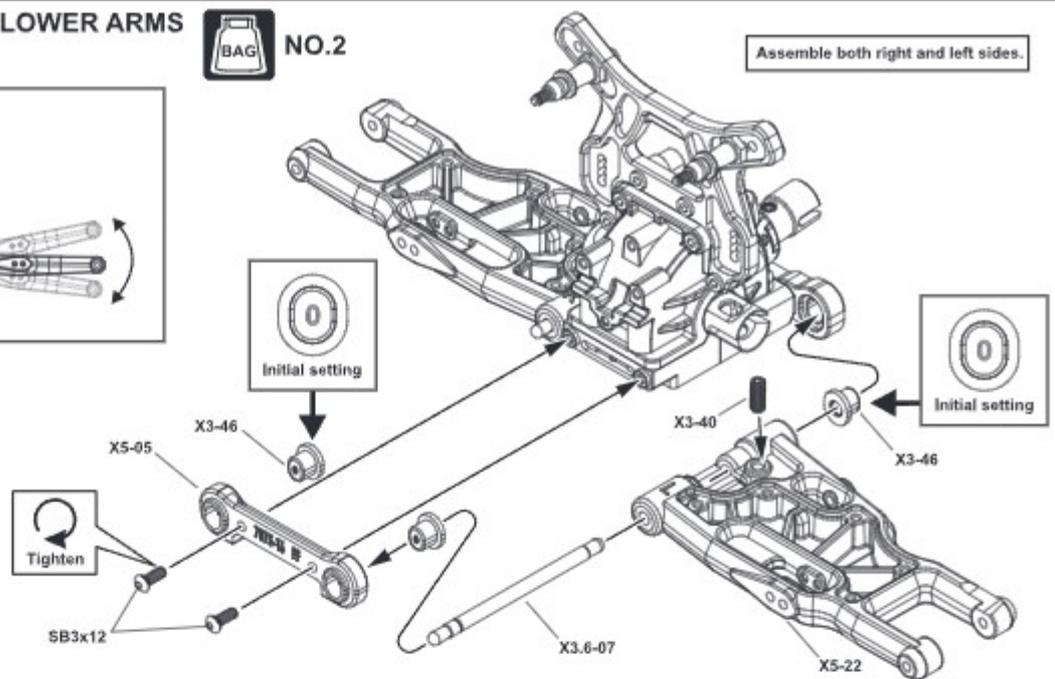
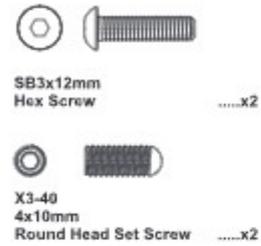
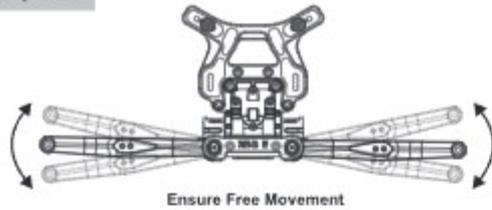
.....x4

9 ASSEMBLY OF THE FRONT LOWER ARMS

BAG NO.2

Assemble both right and left sides.

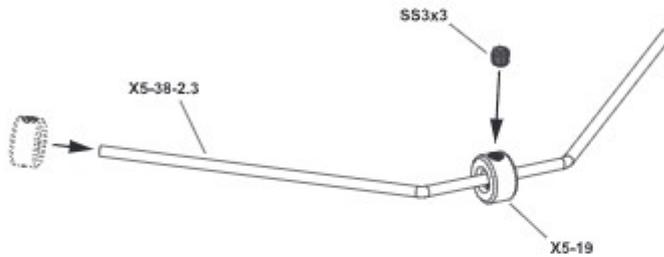
Step detail



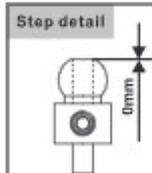
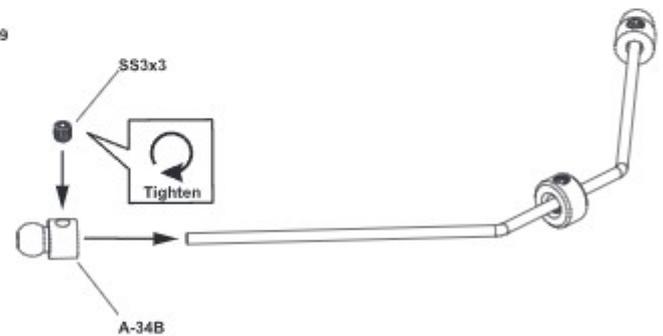
10 ASSEMBLY OF THE FRONT STABILIZER ROD

BAG NO.2

Step 1

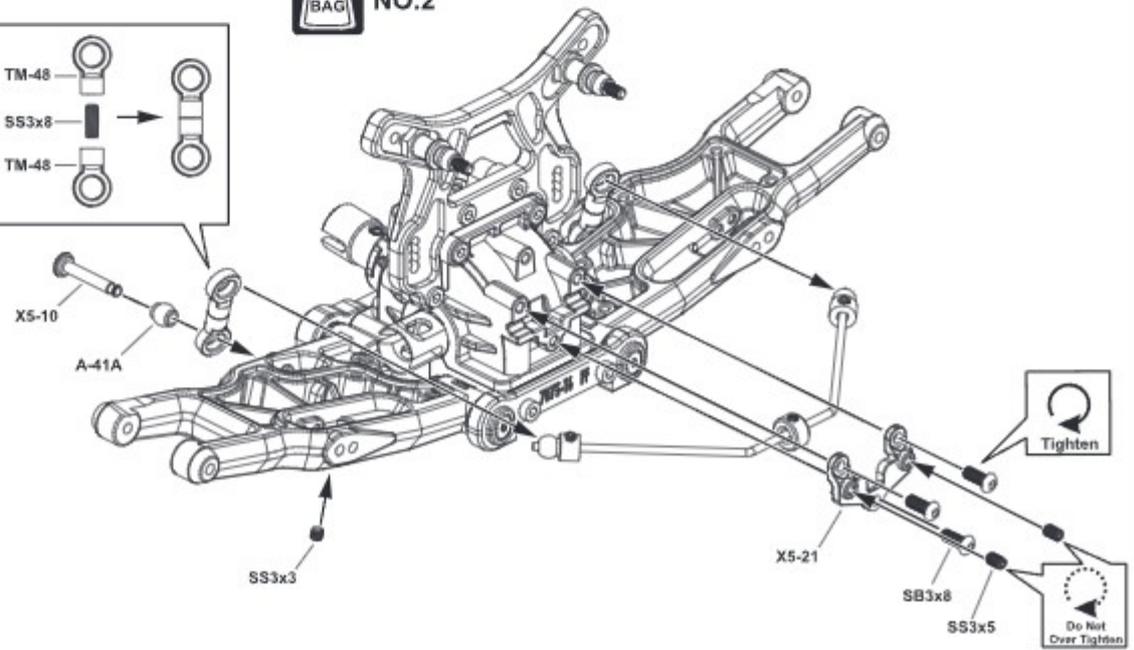
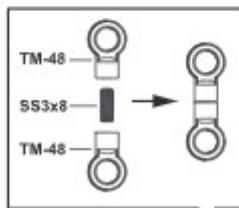


Step 2



11 ASSEMBLY OF THE FRONT STABILIZER ROD

BAG NO.2



12 ADJUSTABLE CASTER SET



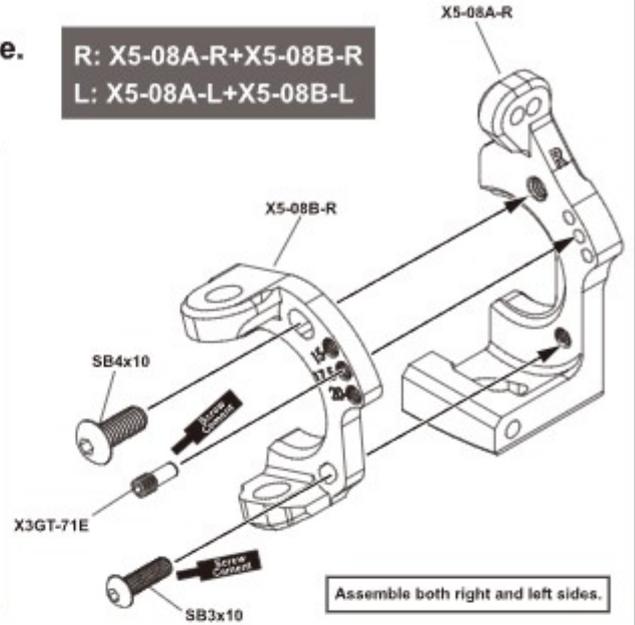
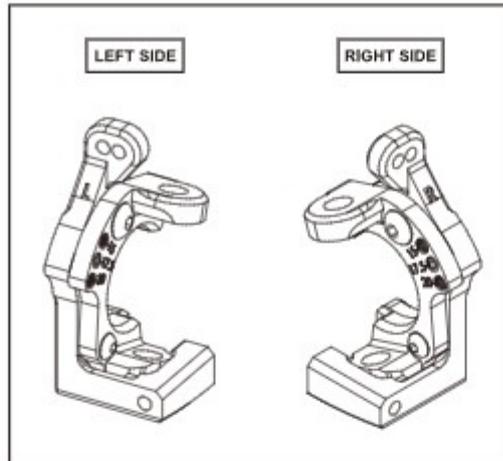
NO.2

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

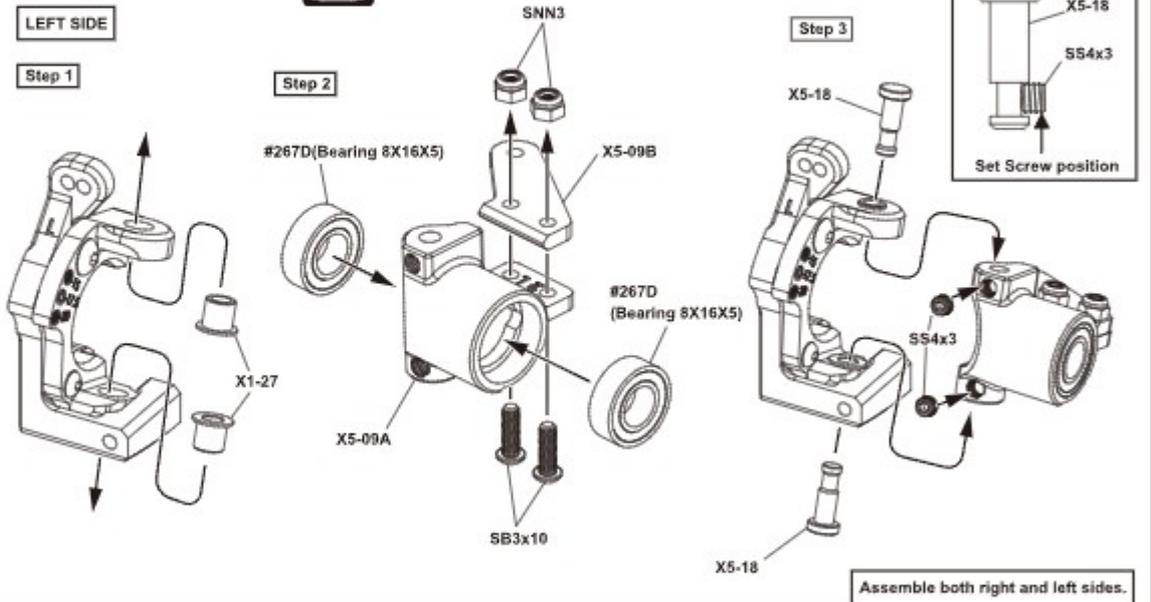
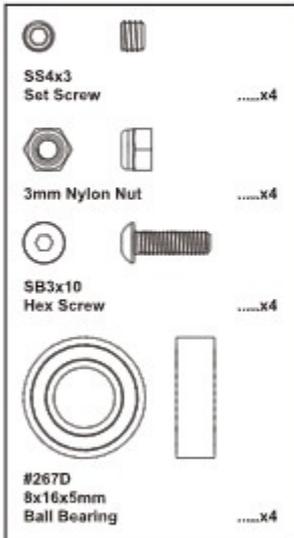
L: X5-08A-L+X5-08B-L



13 ASSEMBLY OF THE FRONT KNUCKLE ARMS



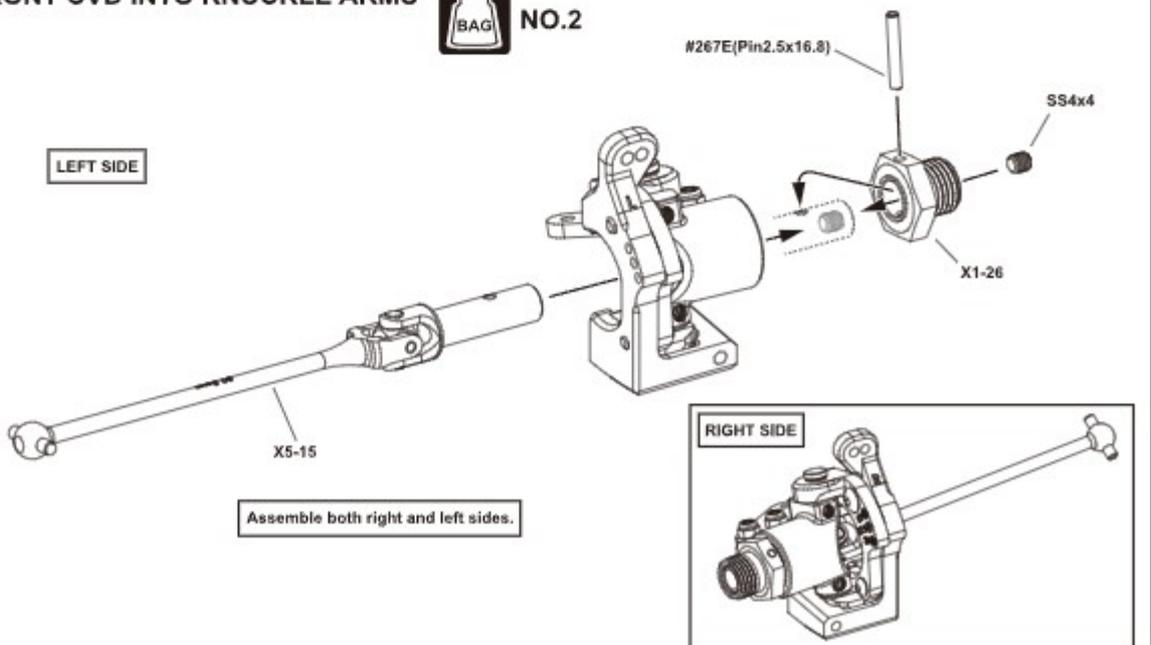
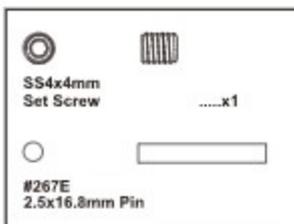
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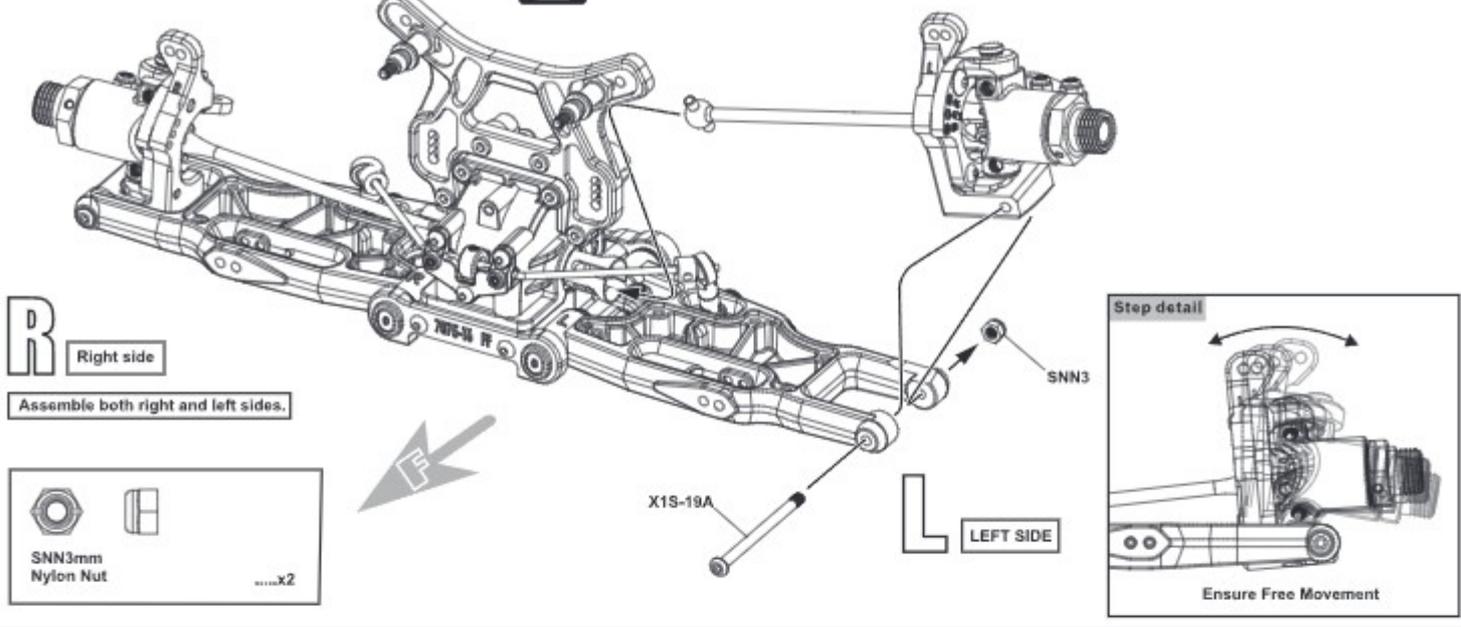
14 ASSEMBLY OF THE FRONT CVD INTO KNUCKLE ARMS



NO.2

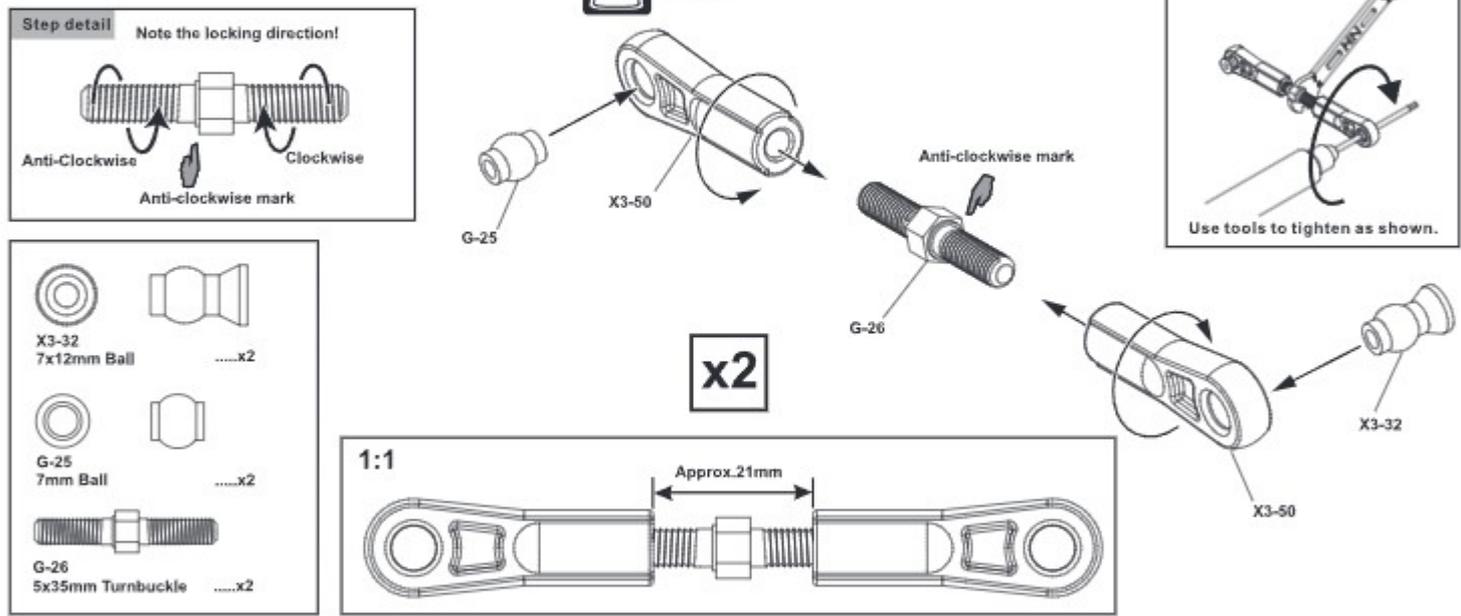


15 ASSEMBLY OF THE KNUCKLE ARMS ONTO FRONT LOWER ARMS **BAG NO.2**



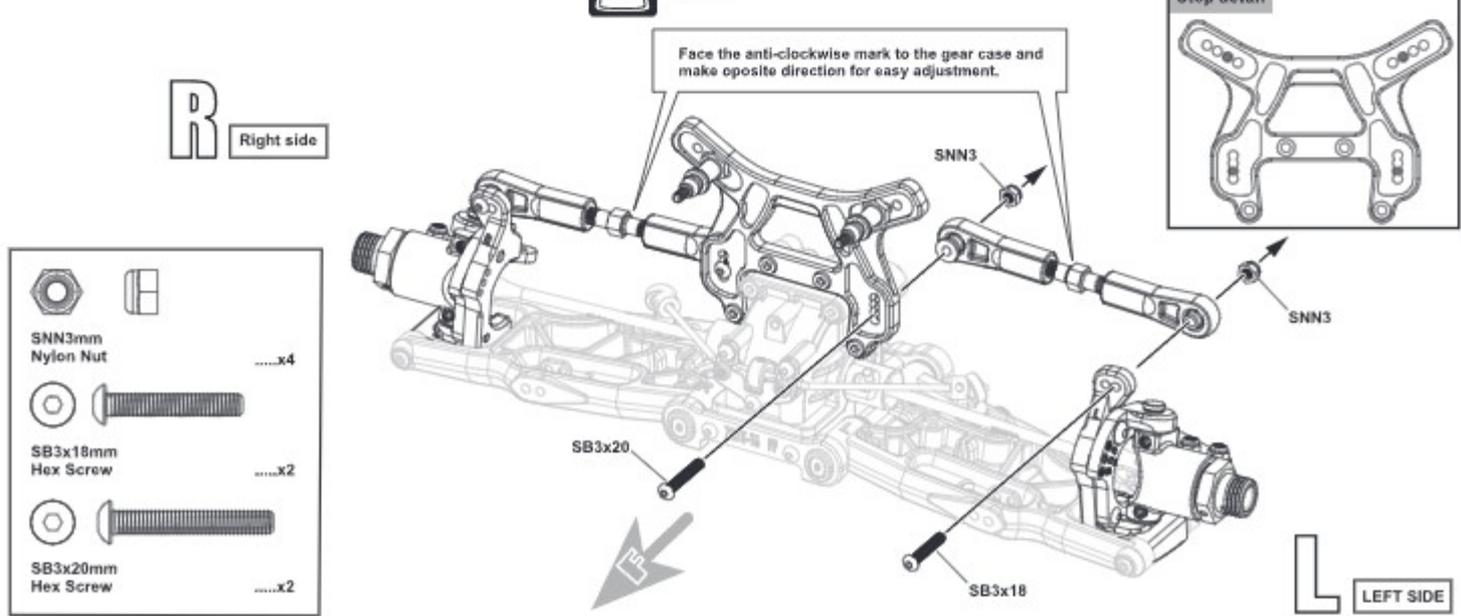
- R** Right side
- Assemble both right and left sides.
- SNN3mm Nylon Nutx2

16 ASSEMBLY OF THE FRONT UPPER ARMS **BAG NO.2**



- X3-32 7x12mm Ballx2
- G-25 7mm Ballx2
- G-26 5x35mm Turnbucklex2

17 ASSEMBLY OF THE FRONT UPPER ARMS **BAG NO.2**

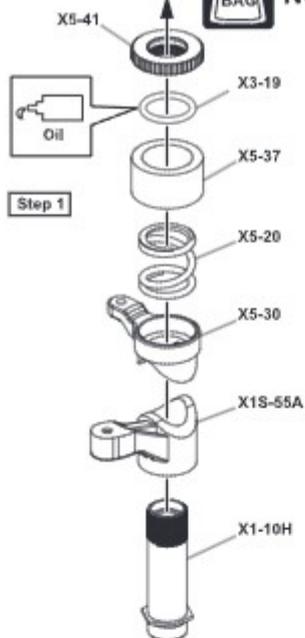
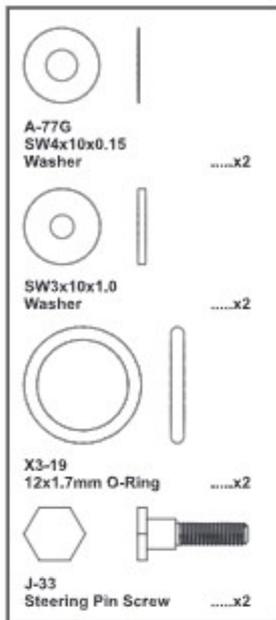


- R** Right side
- Assemble both right and left sides.
- SNN3mm Nylon Nutx4
 - SB3x18mm Hex Screwx2
 - SB3x20mm Hex Screwx2

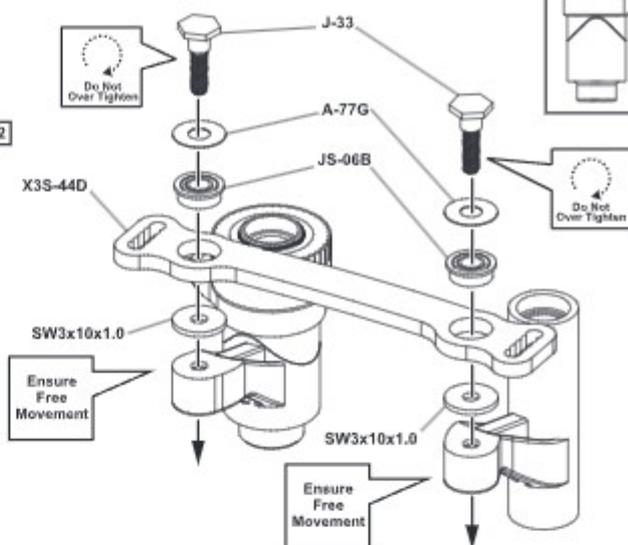
18 ASSEMBLY OF THE SERVO SAVER



NO.3



Step 2



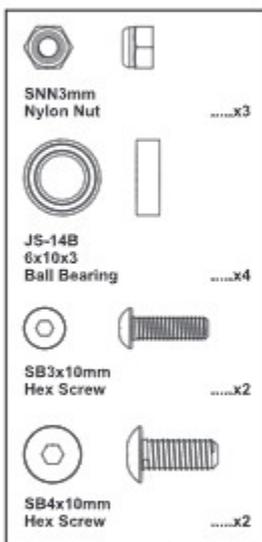
Servo saver spring preload.

* Approx. 1mm

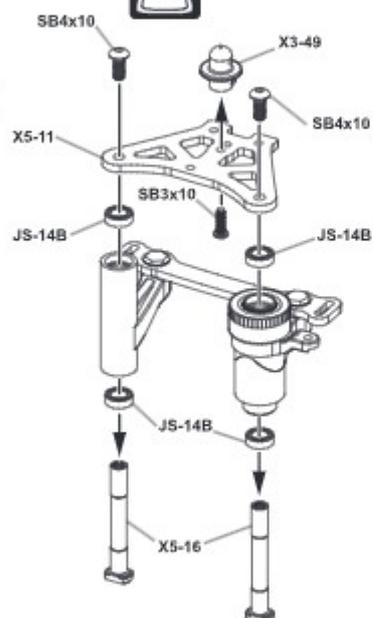
19 ASSEMBLY OF THE SERVO SAVER



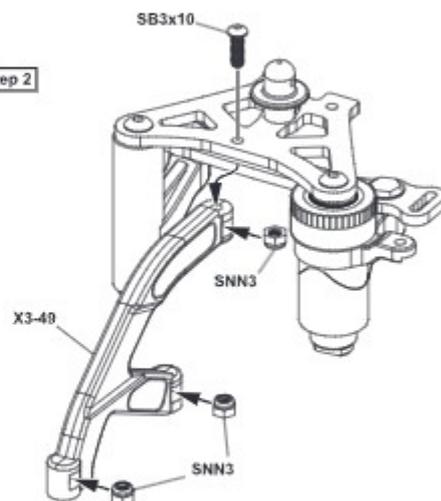
NO.3



Step 1



Step 2



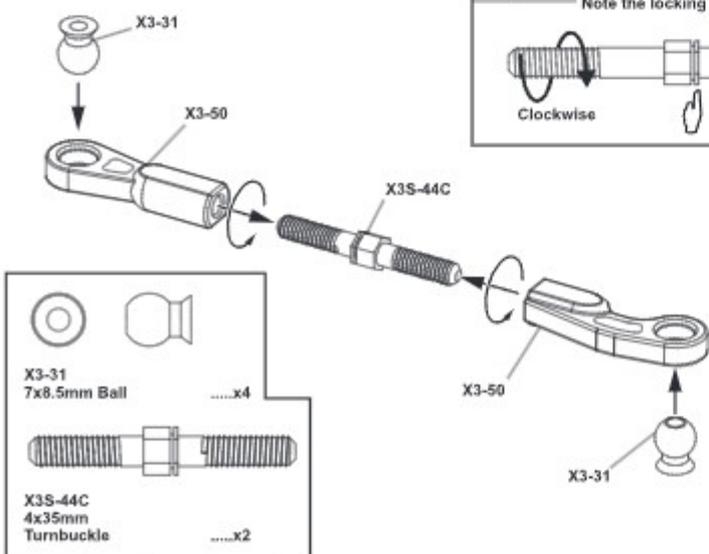
20 ASSEMBLY OF THE STEERING TIE-ROD



NO.3

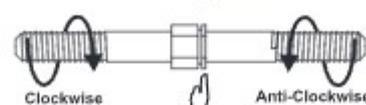
Make two steering rods for left and right hand sides.

LEFT SIDE

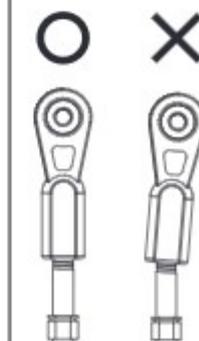


Step detail

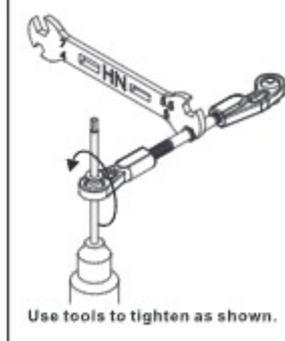
Note the locking direction!



Step detail

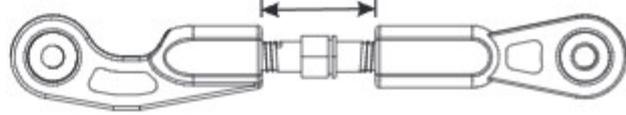


Step detail



Right side 1:1

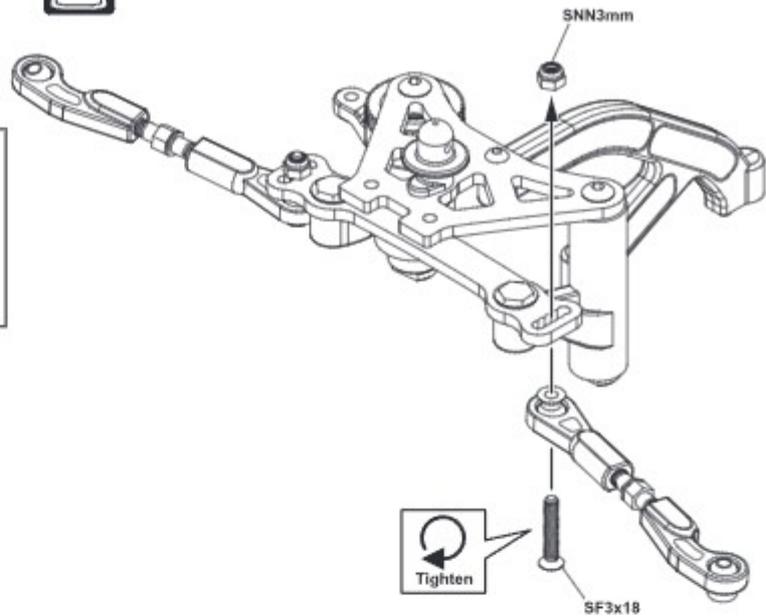
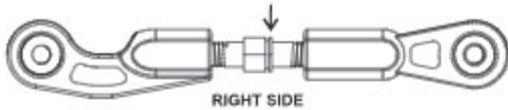
*Approx. 15mm



21 ASSEMBLY OF THE STEERING TIE-ROD

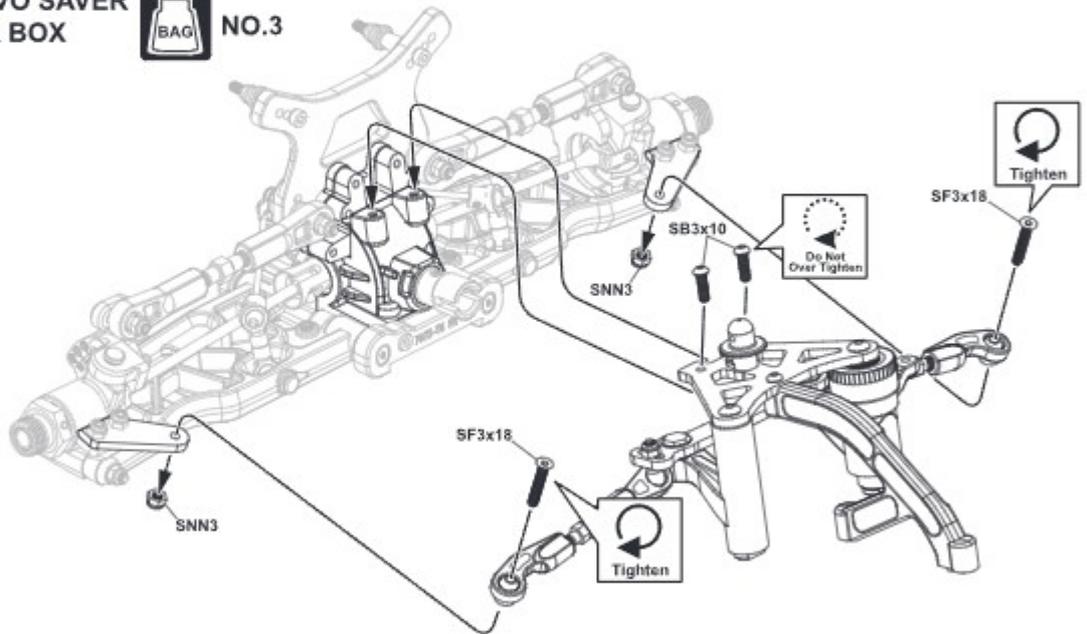
BAG NO.3

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



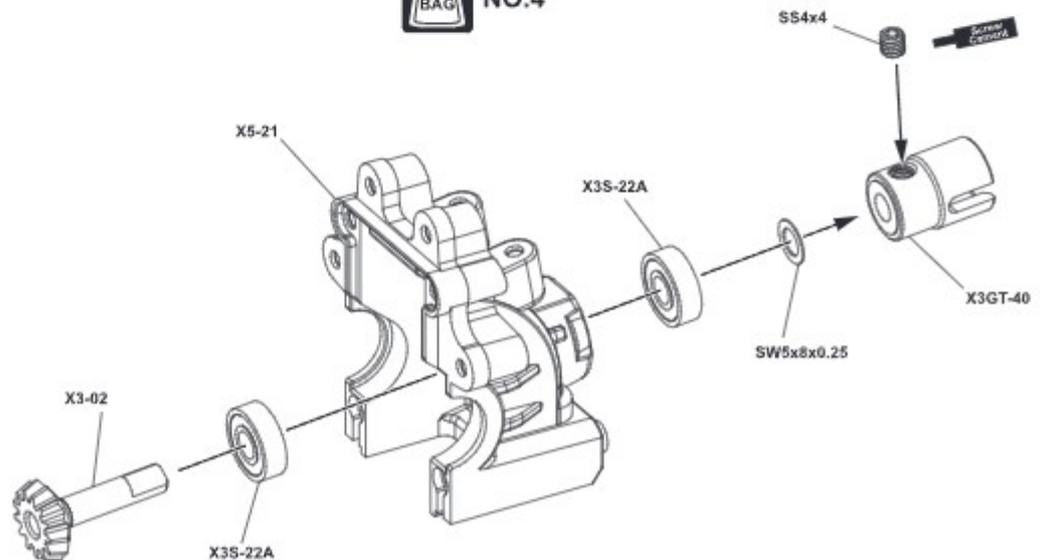
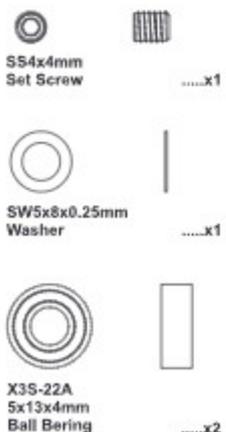
22 ASSEMBLY OF THE SERVO SAVER ONTO THE FRONT GEAR BOX

BAG NO.3



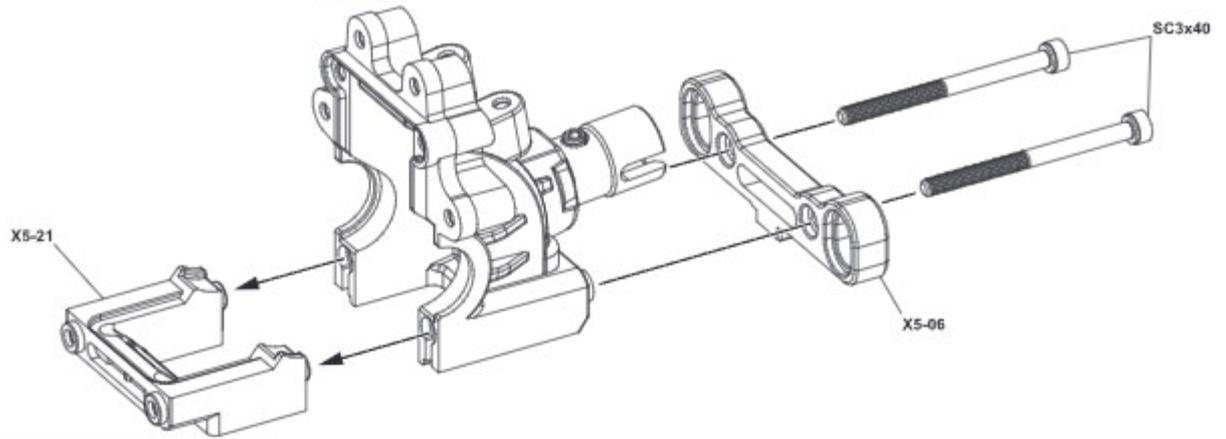
23 ASSEMBLY OF THE REAR PINION GEAR AND CVD SHAFT

BAG NO.4



24 ASSEMBLY OF THE REAR GEAR CASE

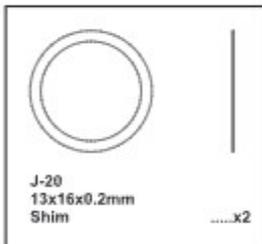
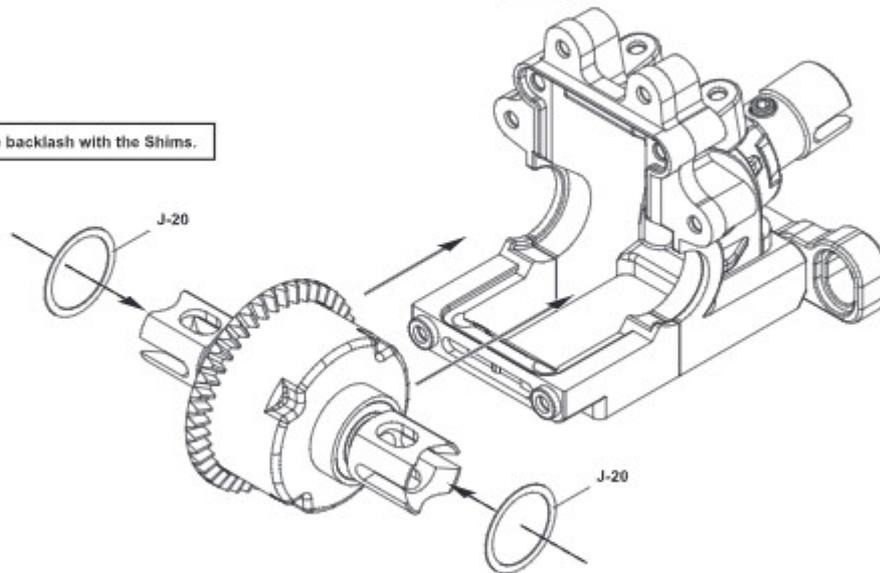
 NO.4



25 ASSEMBLY OF THE REAR DIFFERENTIAL ONTO GEAR CASE

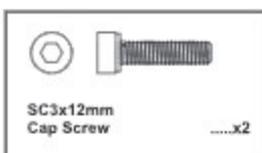
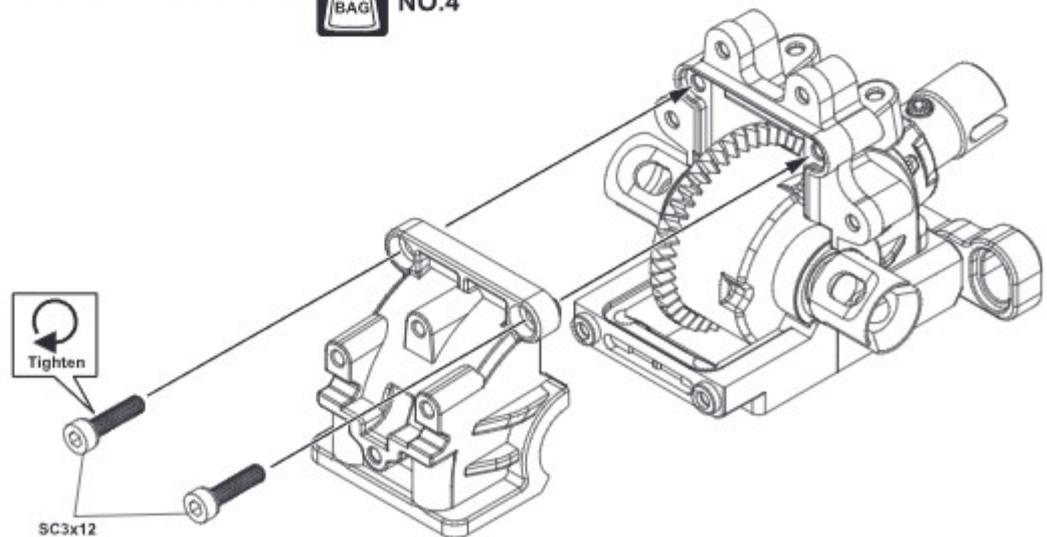
 NO.4
NO.1

Adjust the backlash with the Shims.



26 ASSEMBLY OF THE REAR GEAR CASE COVER

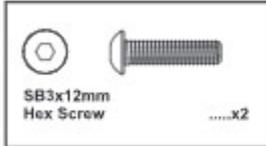
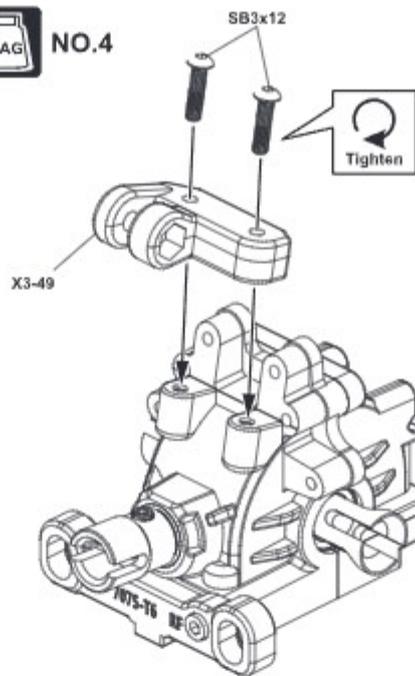
 NO.4



27 ASSEMBLY OF THE REAR BRACE MOUNT



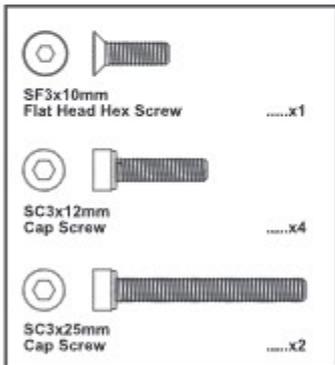
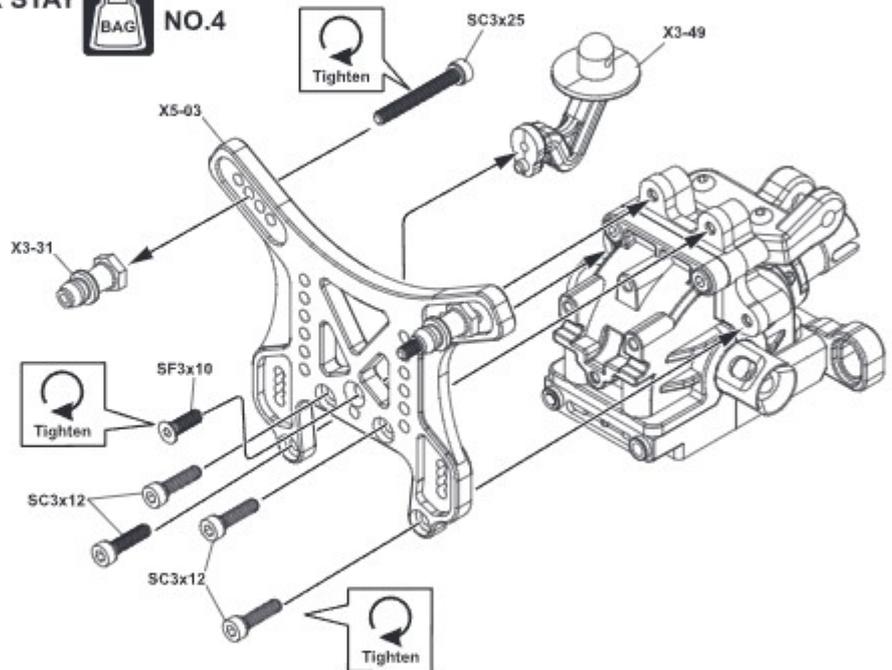
NO.4



28 ASSEMBLY OF THE REAR SHOCK STAY ONTO REAR GEAR CASE



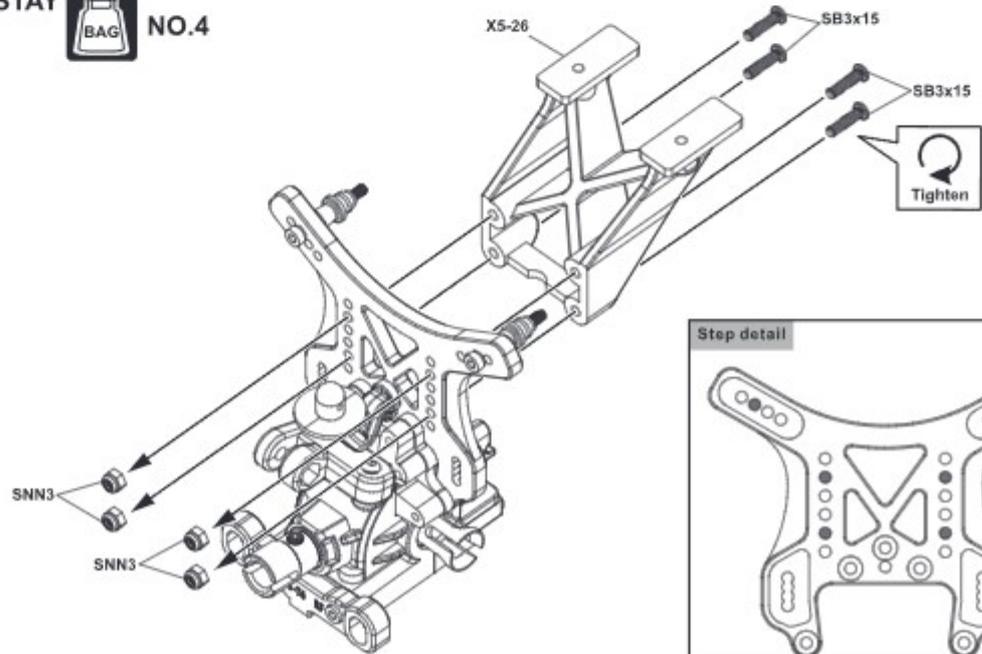
NO.4



29 ASSEMBLY OF THE WING STAY

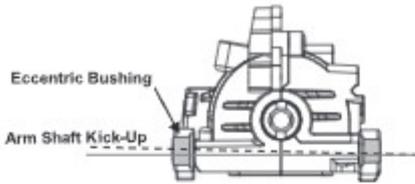


NO.4



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

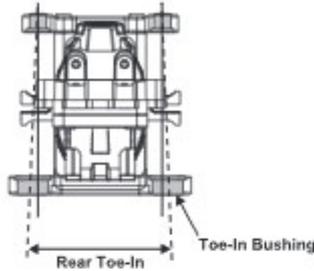
REAR KICK-UP SETTING



Rear Kick-Up	Characteristics
Less Rear Kick-Up	<ul style="list-style-type: none"> ● Absorb road shock less. ● Applicable flat surface.
More Rear Kick-Up	<ul style="list-style-type: none"> ● Absorb road shock more. ● Applicable uneven surface.

RF	Rear Kick-Up
3.5	2.8°
3	2.5°
2.5	2°
2	1.5°
2 (Reverse)	1°
1.5 (Reverse)	0.5°
1 (Reverse)	0°

REAR TOE-IN SETTING



Rear Toe-In	Characteristics
Less Rear Toe-In	<ul style="list-style-type: none"> ● Reduced Grip. ● Oversteer tendency. ● Linear acceleration over the instability.
More Rear Toe-In	<ul style="list-style-type: none"> ● 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

NO.4

R Right side

Step detail

LEFT RIGHT
Initial setting

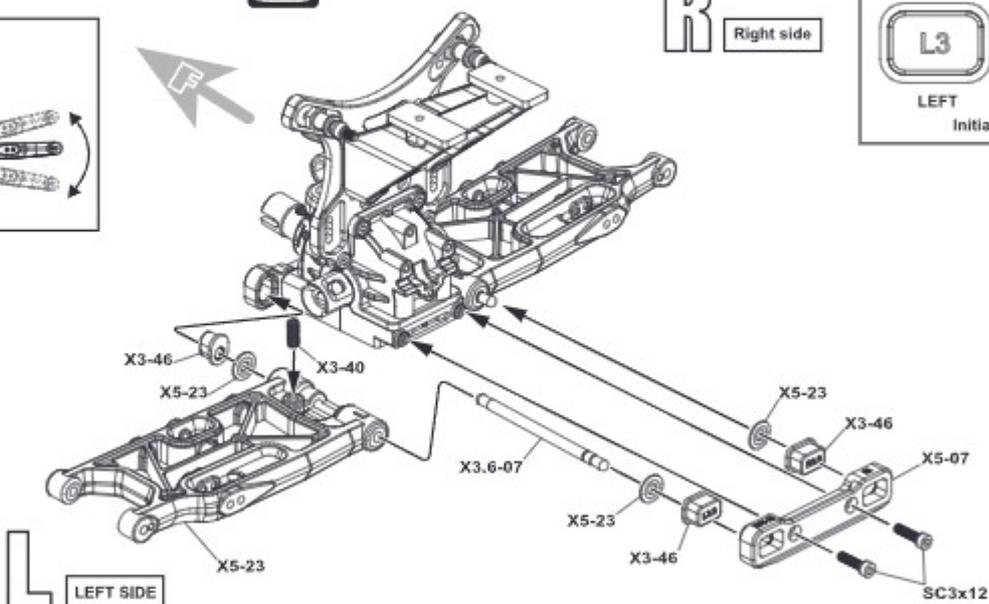
Step detail

Ensure Free Movement

Assemble both right and left side.

SC3x12mm Cap Screwx2

X3-40 4x10mm Round Head Set Screwx2



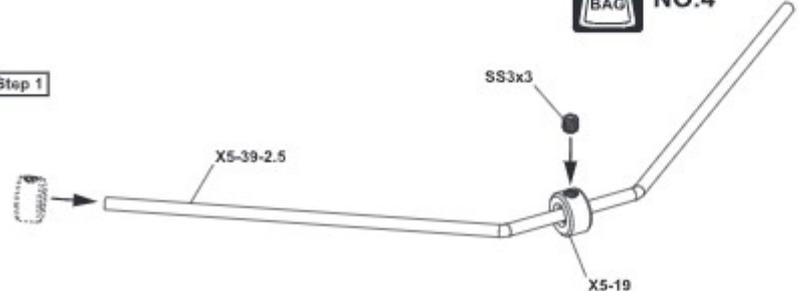
Step detail

Initial setting

32 ASSEMBLY OF THE REAR STABILIZER ROD

NO.4

Step 1



Step 2

Step detail

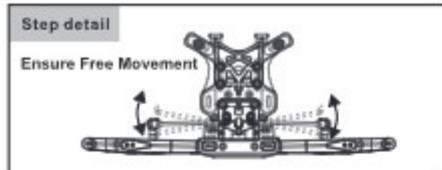
1 mm
Tighten



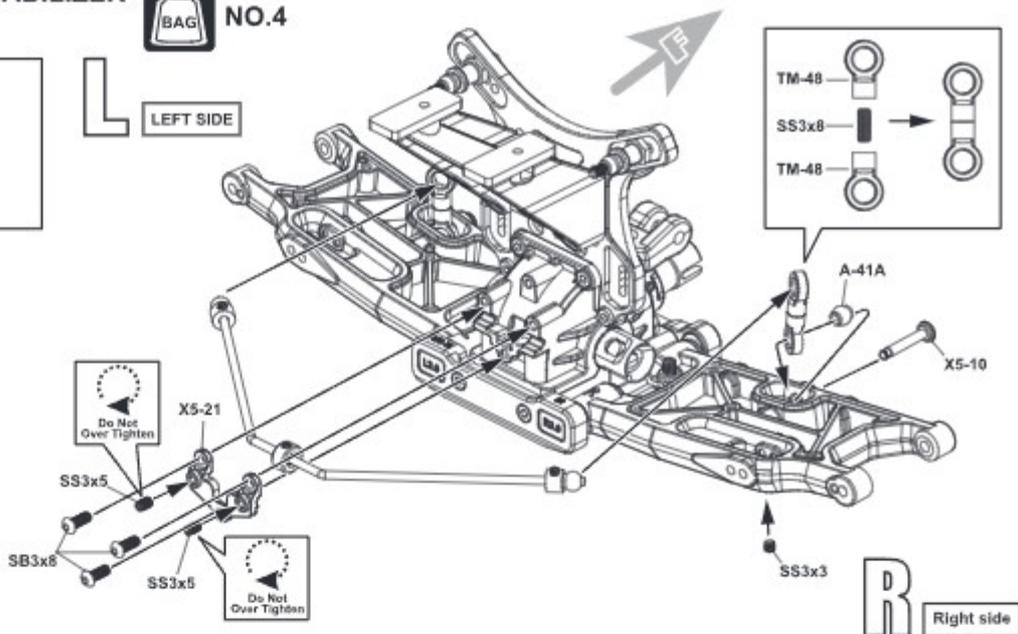
SS3x3mm Set Screwx3

33 ASSEMBLY OF THE REAR STABILIZER

BAG NO.4



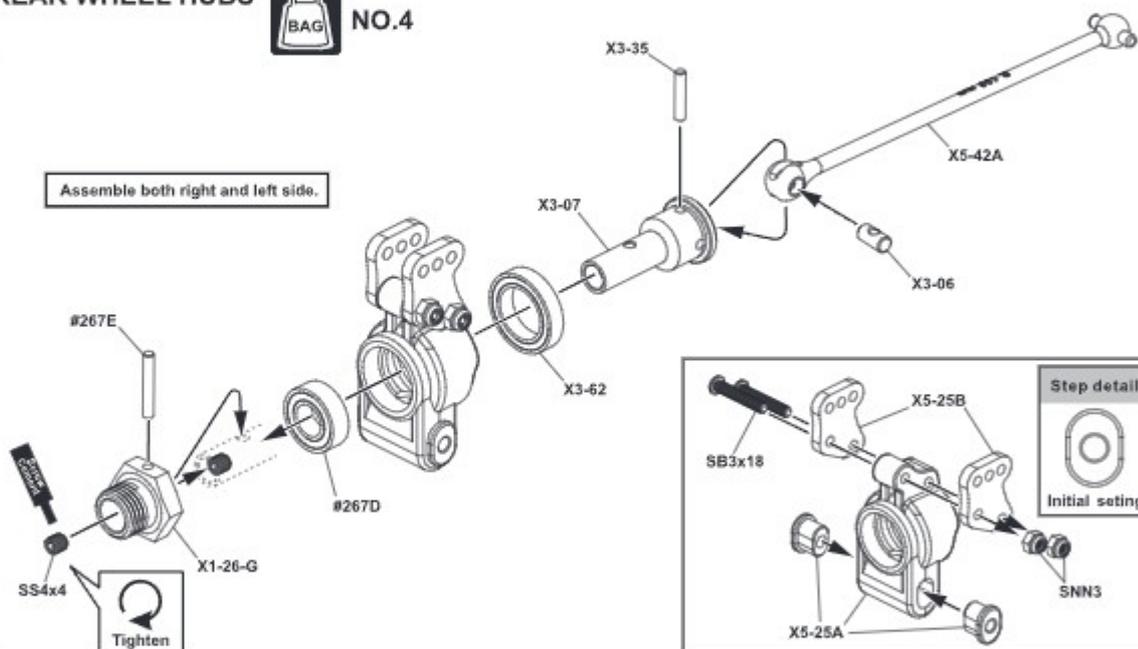
	.....x3
	.....x2
	.....x2
	.....x2



34 ASSEMBLY OF THE REAR WHEEL HUBS

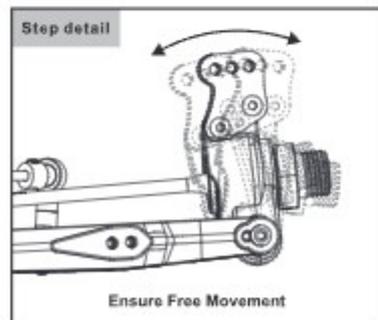
BAG NO.4

	.....x4
	.....x4
	.....x2
	.....x2
	.....x2

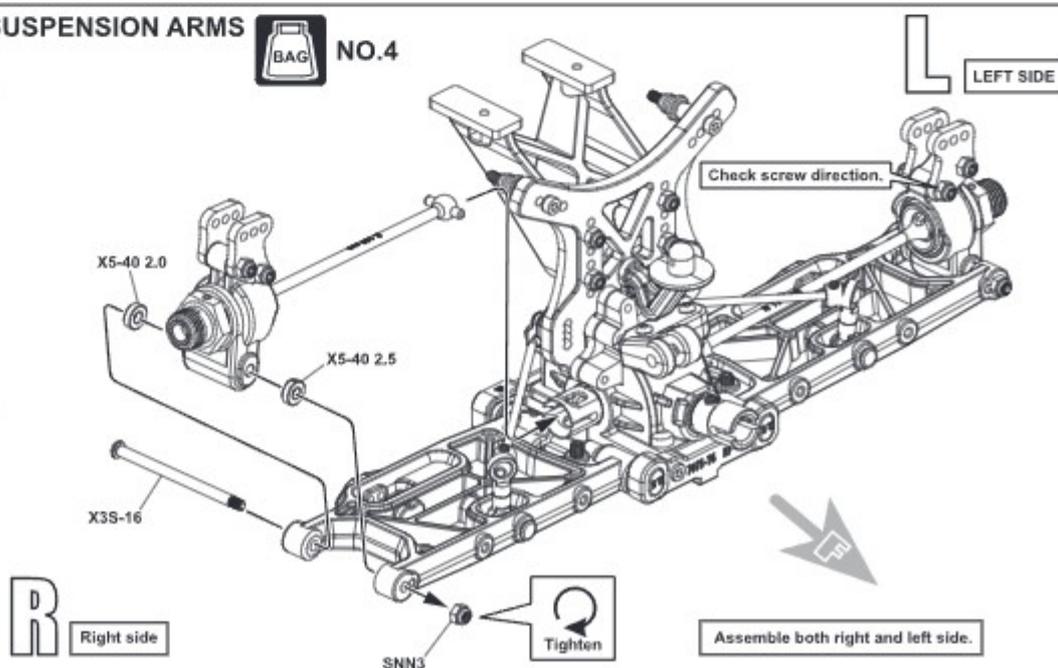


35 ASSEMBLY OF THE REAR SUSPENSION ARMS

BAG NO.4

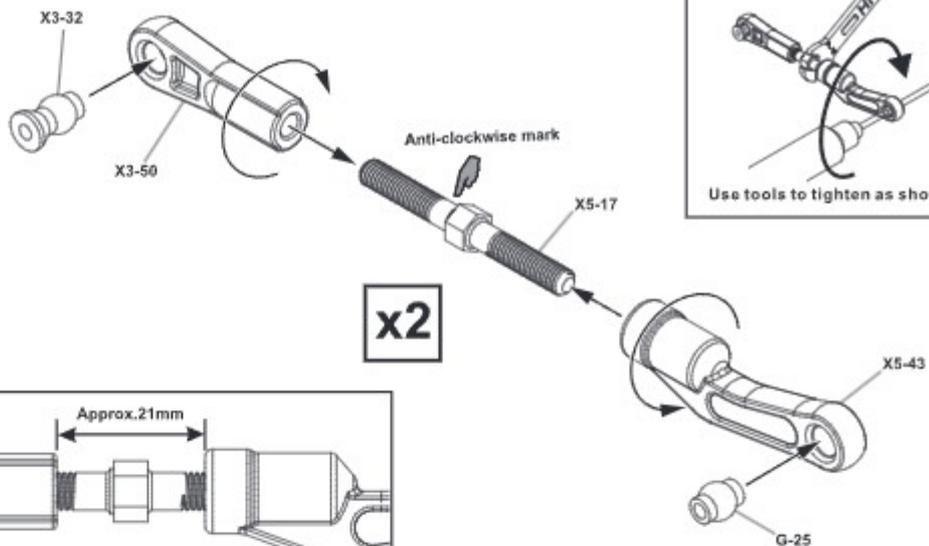
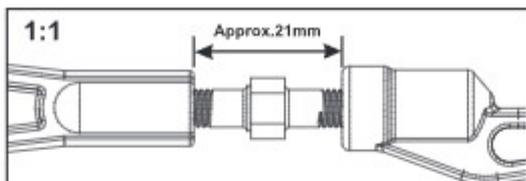
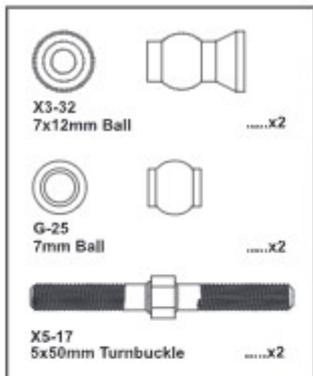
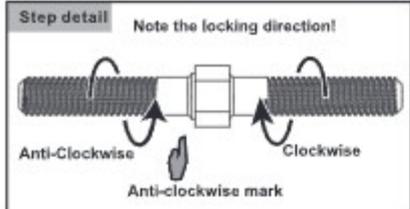


x2
--	---------



36 ASSEMBLY OF THE REAR UPPER ARMS

BAG NO.4

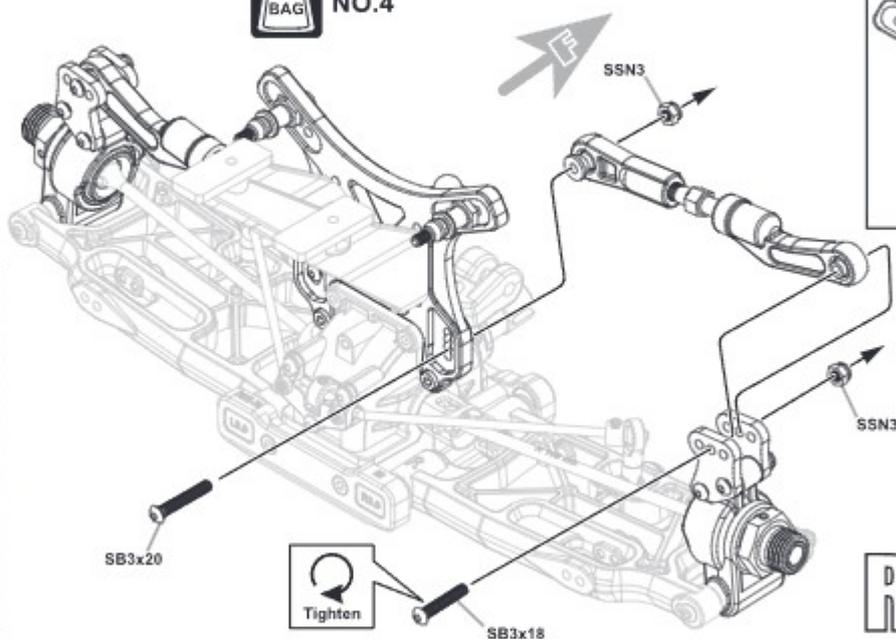
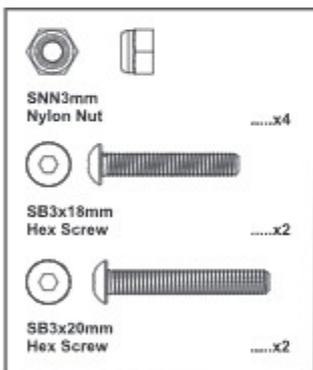


37 ASSEMBLY OF THE REAR UPPER ARMS

BAG NO.4

L LEFT SIDE

Assemble both right and left side.

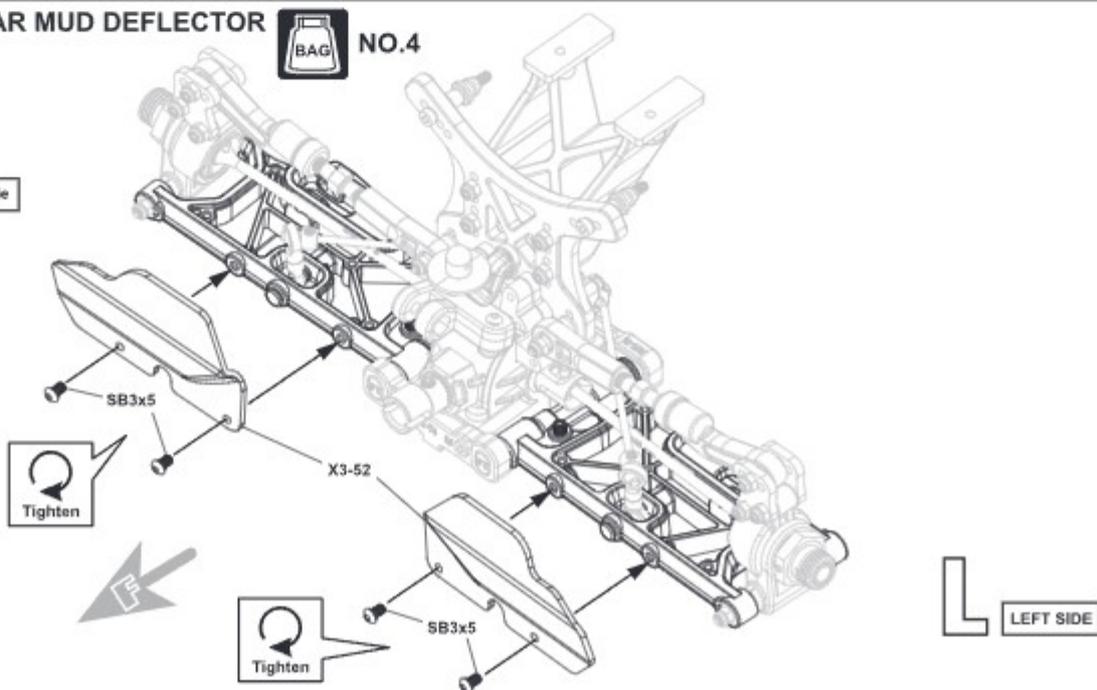
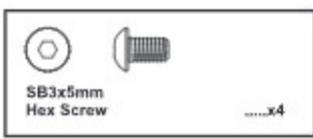


38 ASSEMBLY OF THE REAR MUD DEFLECTOR

BAG NO.4

R Right side

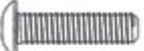
Assemble both right and left side.



39 ASSEMBLY OF THE REAR CENTER BRACE

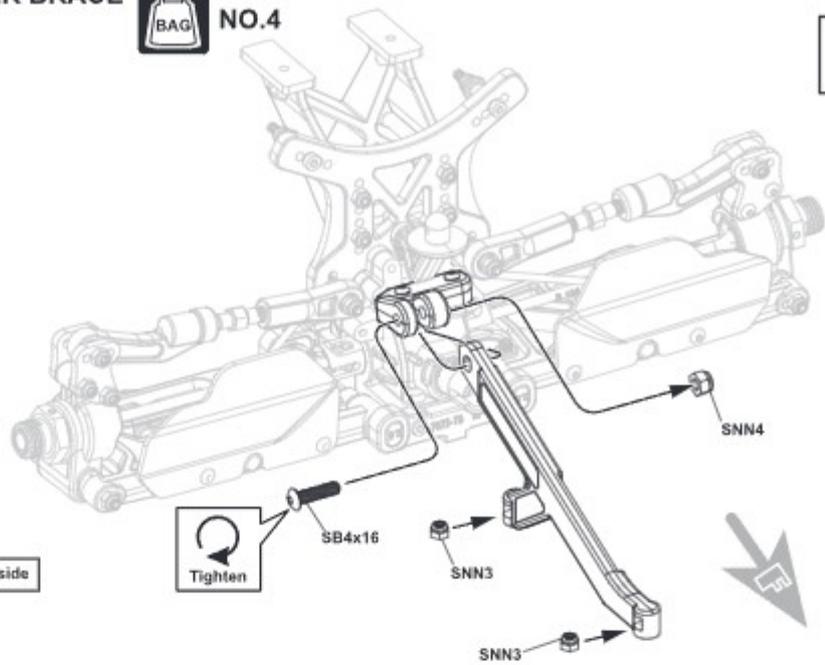
BAG NO.4

L LEFT SIDE

-   SNN3mm Nylon Nutx2
-   SNN4mm Nylon Nutx1
-   SB4x16mm Hex Screwx1

R Right side

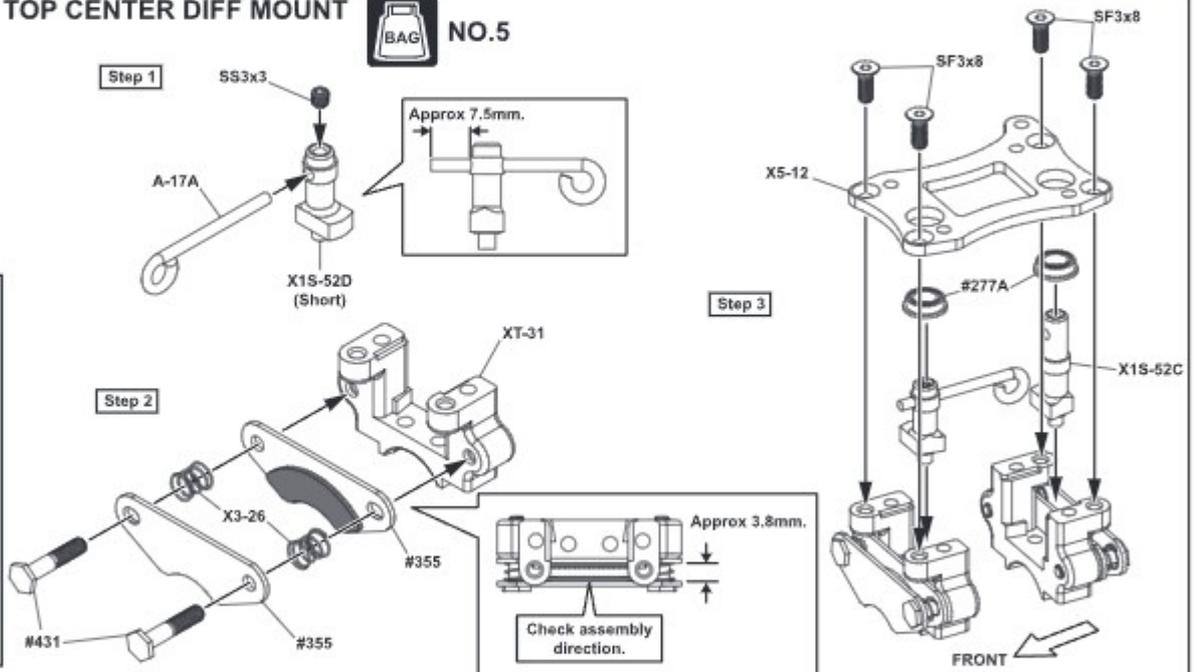
 Tighten



40 ASSEMBLY OF THE TOP CENTER DIFF MOUNT

BAG NO.5

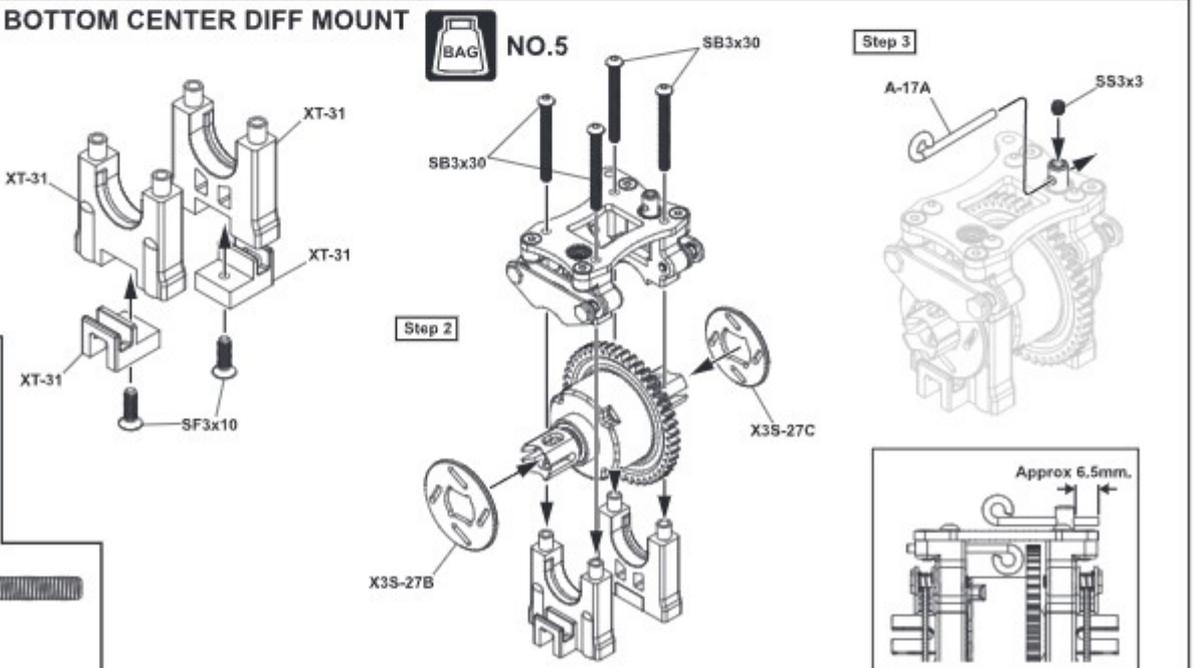
-   SS3x3mm Set Screwx1
-   3x8mm Flat Head Hex Screwx4
-   #277A 5x8mm Flange Ball Bearingx2



41 ASSEMBLY OF THE BOTTOM CENTER DIFF MOUNT

BAG NO.5

-   SS3x3mm Set Screwx1
-   SF3x10mm Flat Head Hex Screwx2
-   SB3x30mm Hex Screwx4

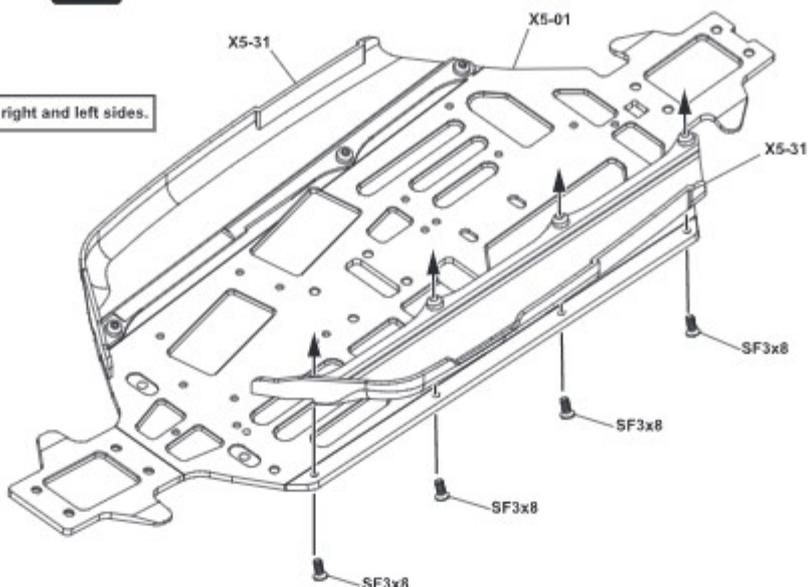


42 ASSEMBLY OF THE SIDE GUARD



NO.6
NO.12

Assemble both right and left sides.

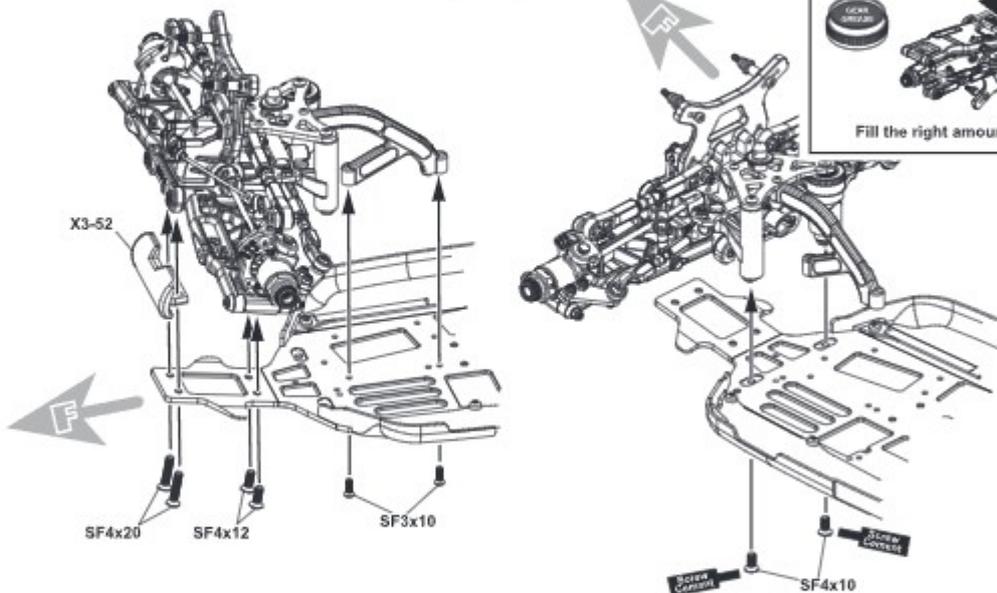
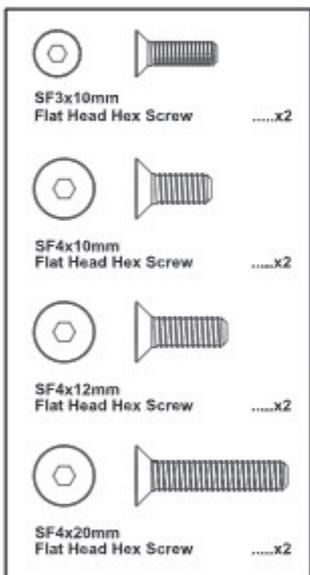


43 ASSEMBLY OF THE FRONT GEAR CASE ONTO CHASSIS



NO.2
NO.12

Step detail

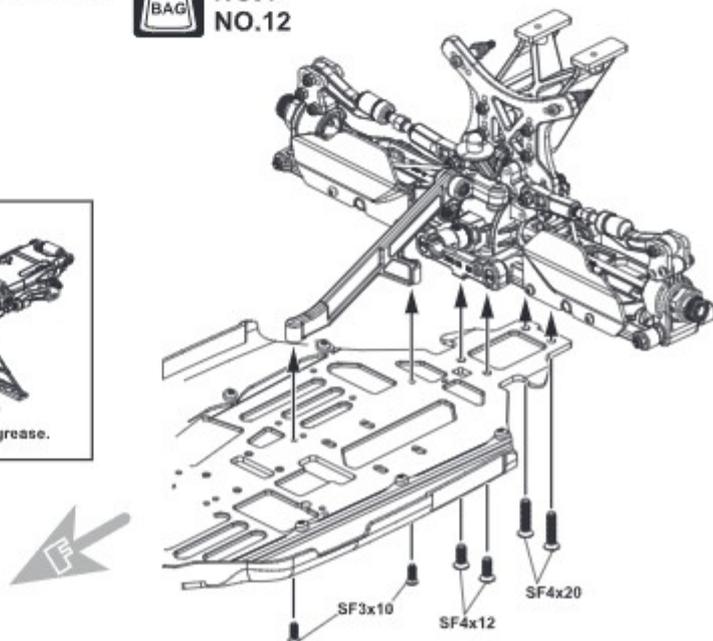
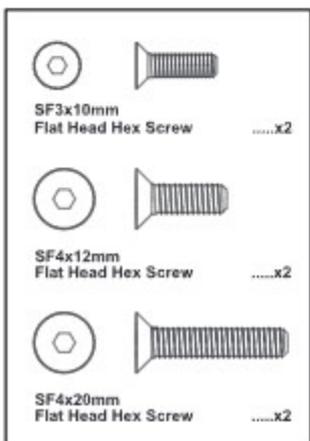
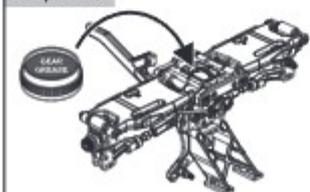


44 ASSEMBLY OF THE REAR GEAR CASE ONTO CHASSIS



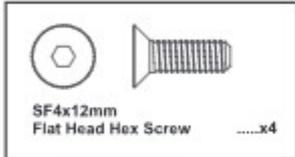
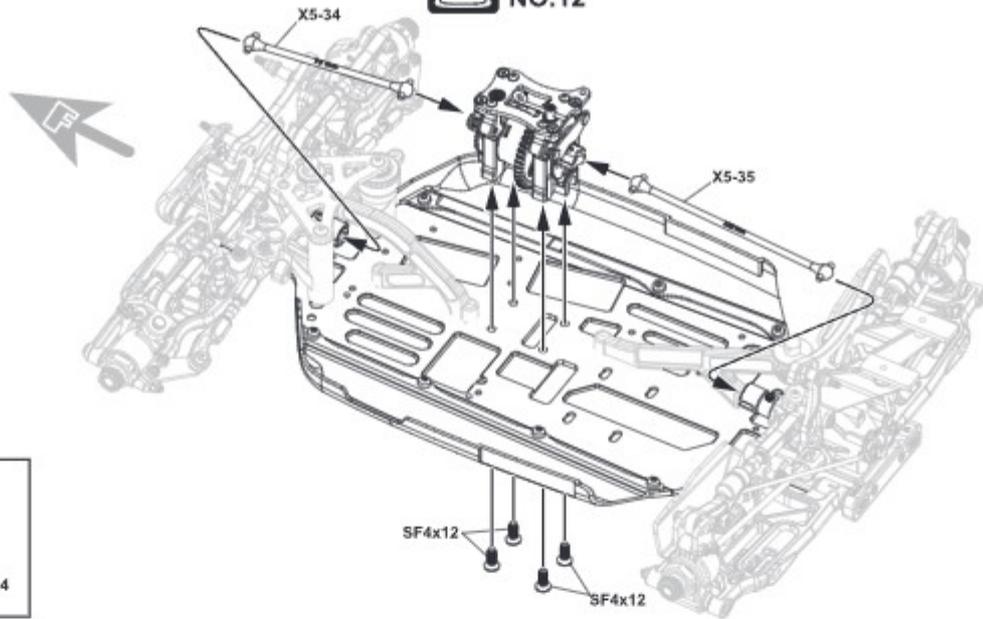
NO.4
NO.12

Step detail



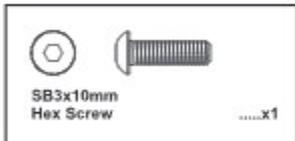
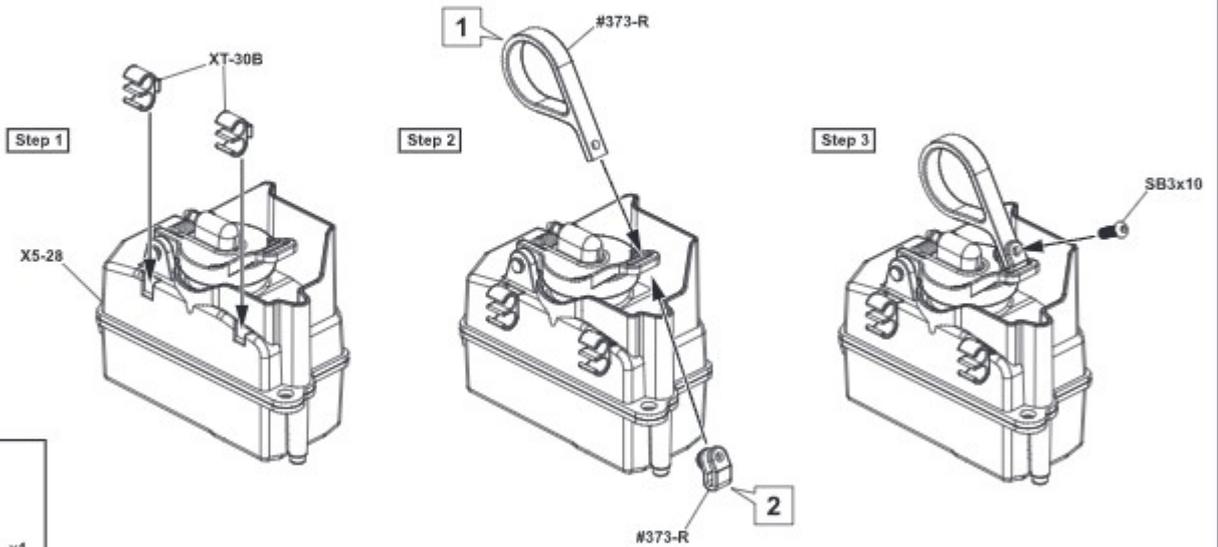
45 ASSEMBLY OF THE CENTER DIFF. ONTO CHASSIS

BAG NO.5
NO.12



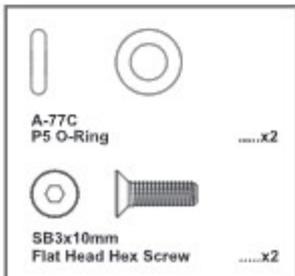
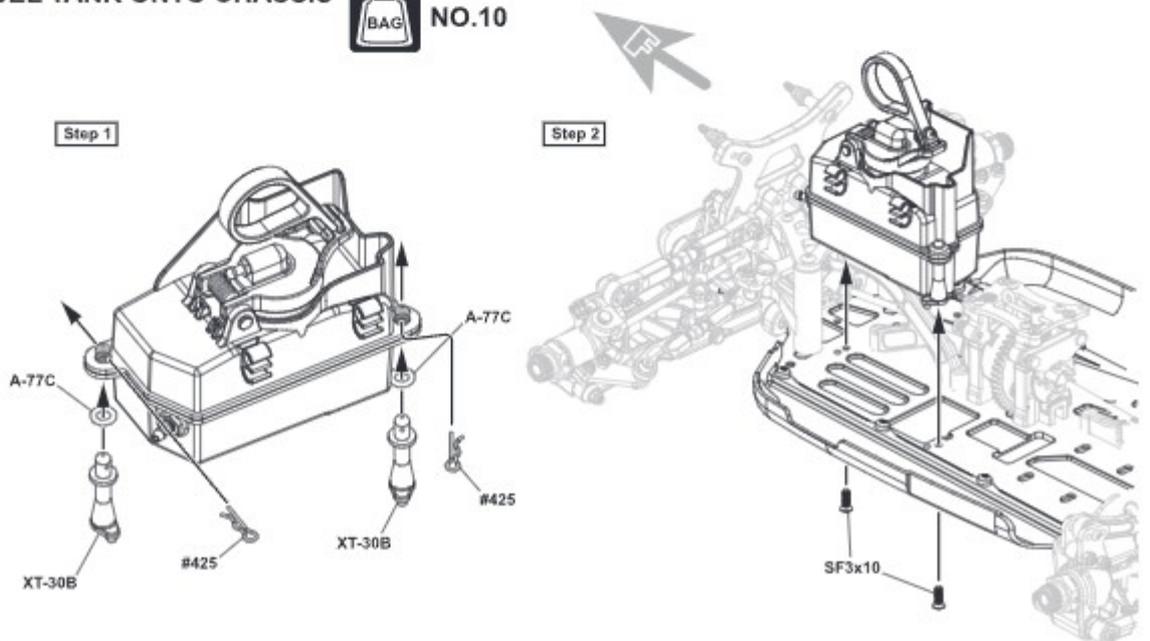
46 ASSEMBLY OF THE FUEL TANK

BAG NO.10



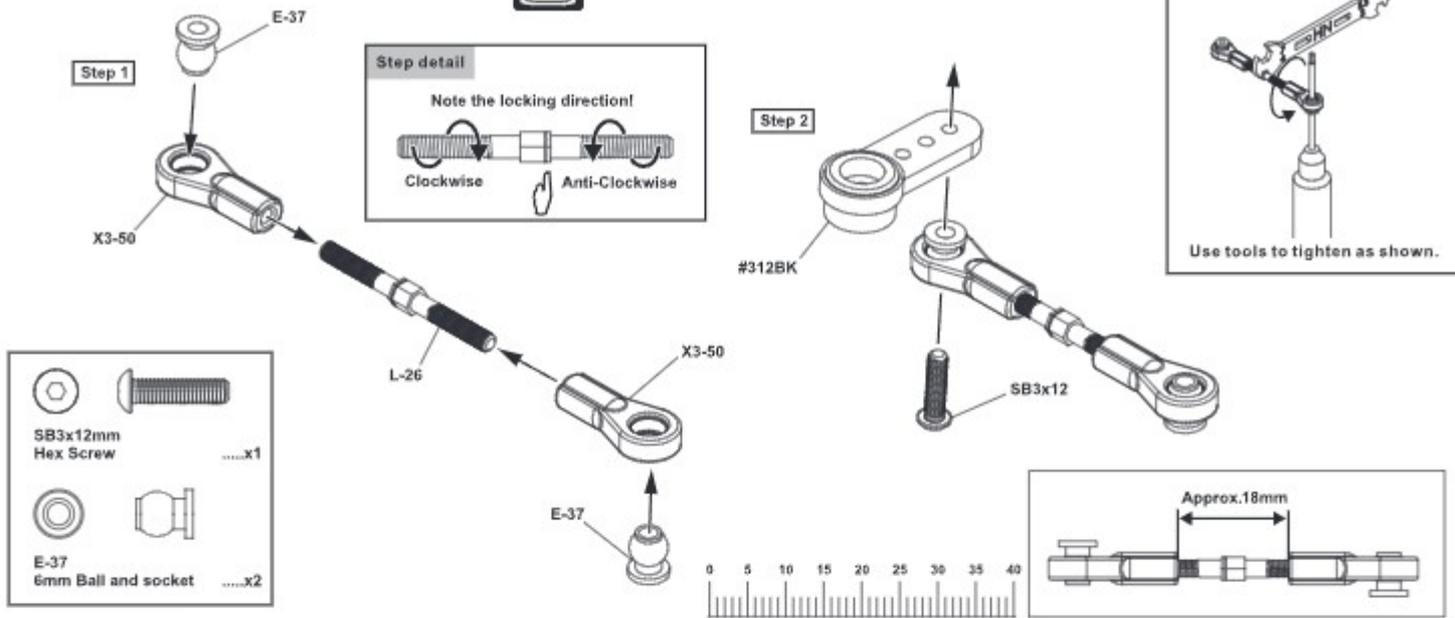
47 ASSEMBLY OF THE FUEL TANK ONTO CHASSIS

BAG NO.10



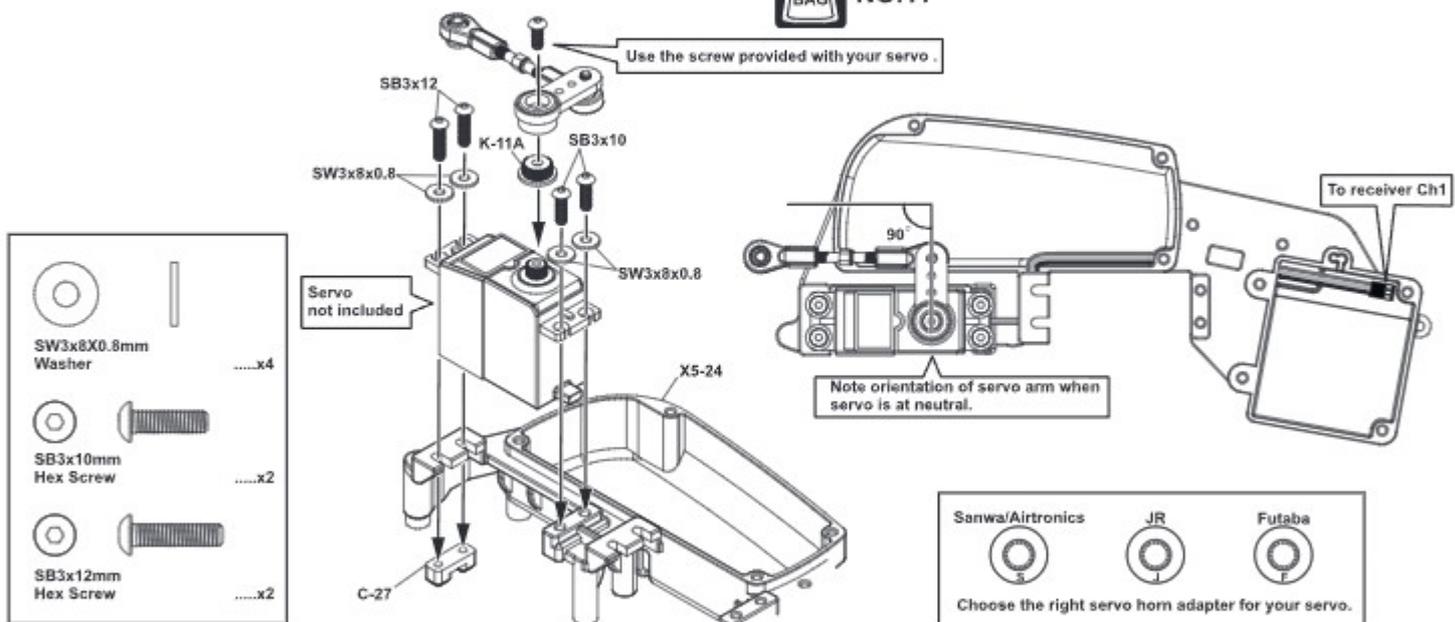
48 ASSEMBLY OF THE STEERING ROD

BAG NO.11



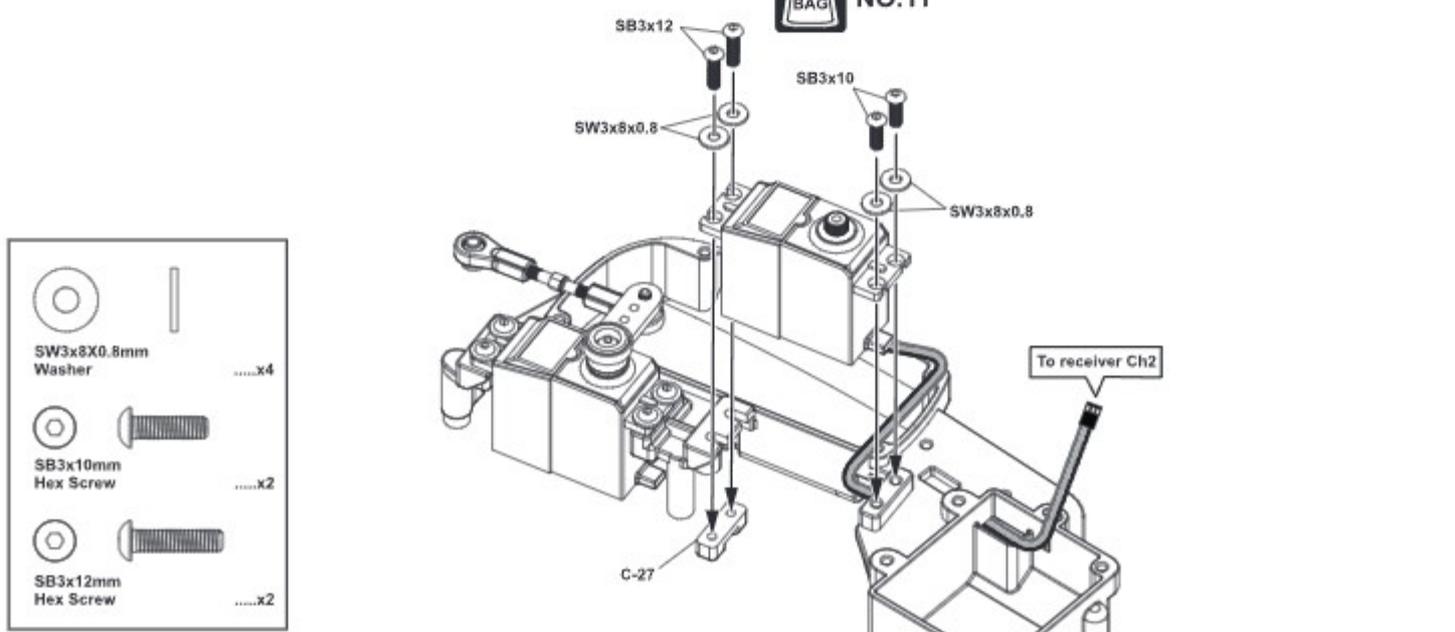
49 ASSEMBLY OF THE STEERING SERVO AND RADIO TRAY

BAG NO.11

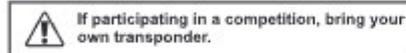
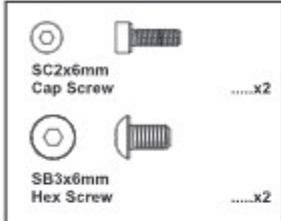
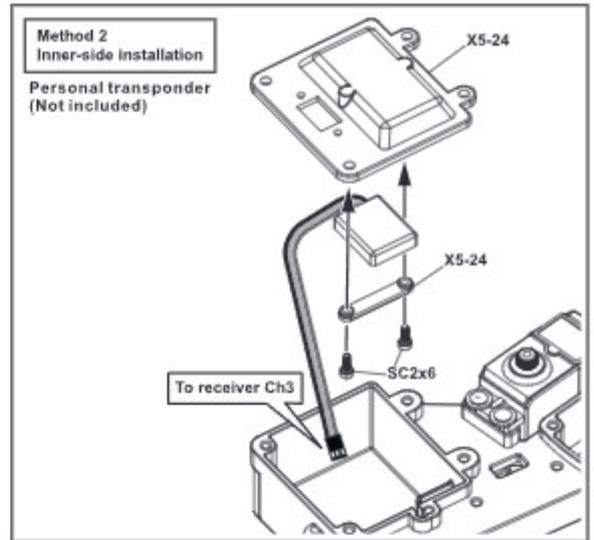
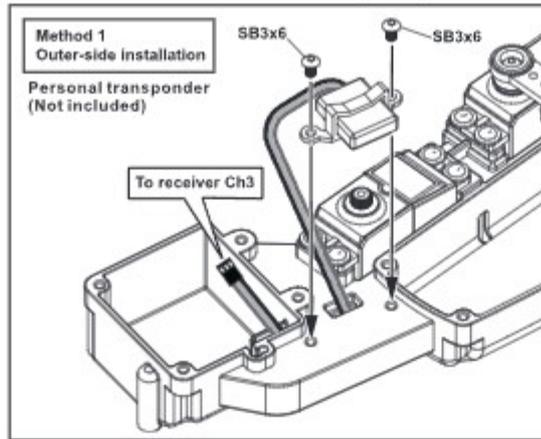


50 ASSEMBLY OF THE THROTTLE SERVO AND RADIO TRAY

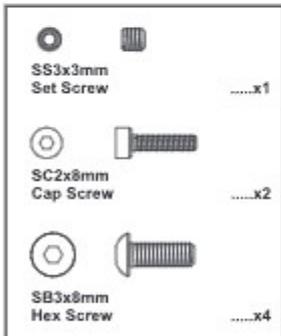
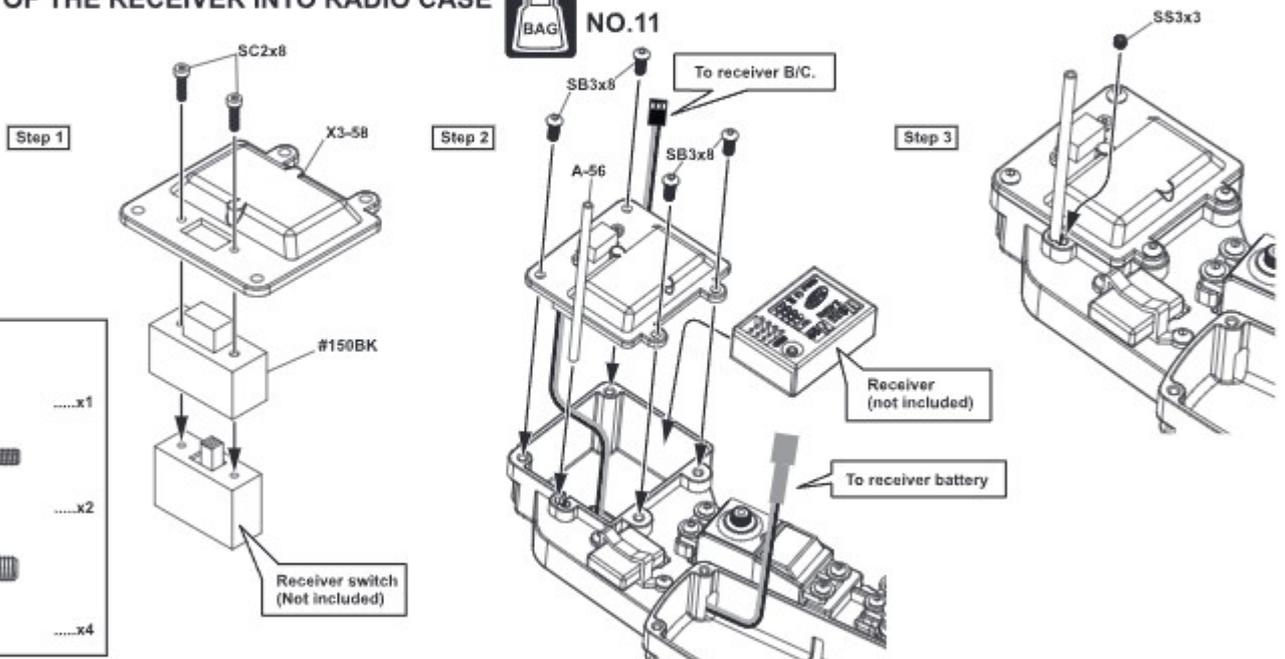
BAG NO.11



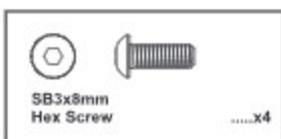
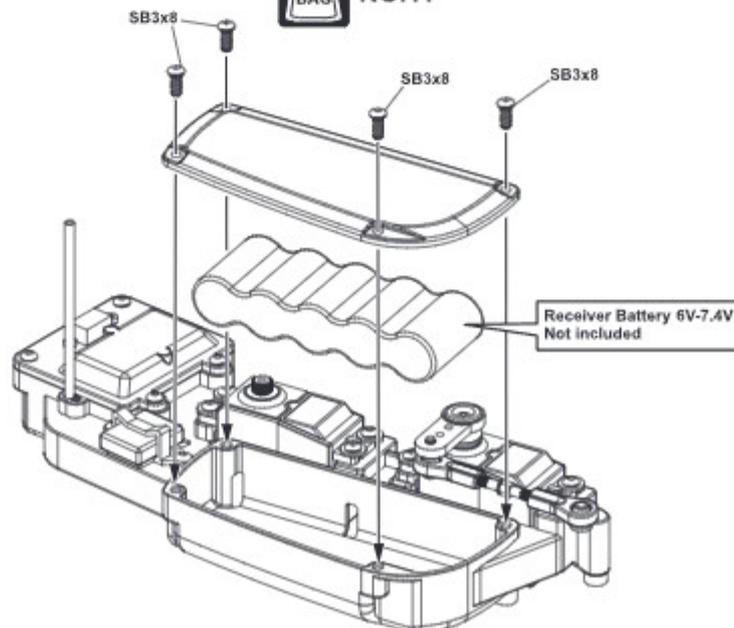
51 ASSEMBLY OF THE PERSONAL TRANSPONDER



52 ASSEMBLY OF THE RECEIVER INTO RADIO CASE



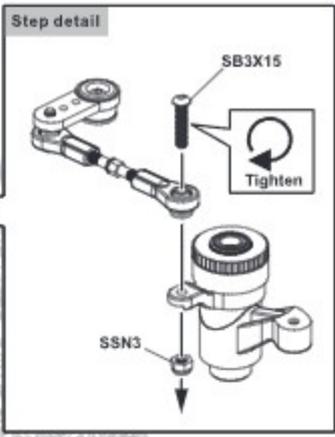
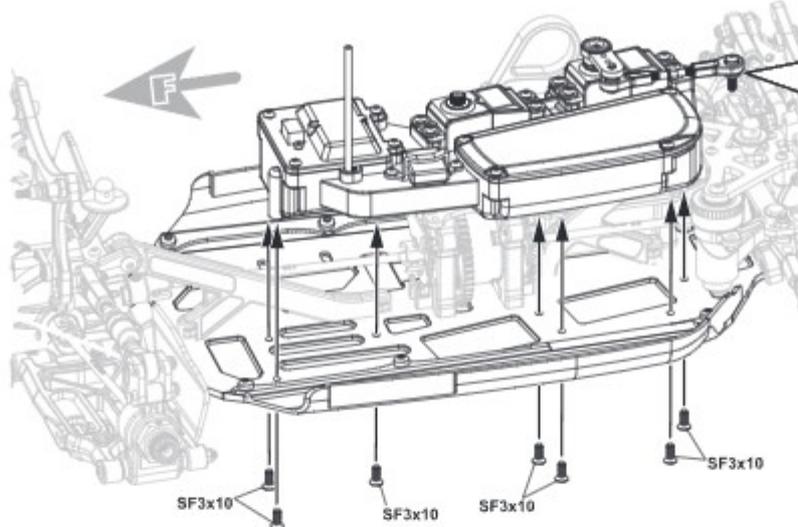
53 ASSEMBLY OF THE BATTERY BOX AND RADIO TRAY



54 ASSEMBLY OF THE RADIO TRAY ONTO CHASSIS

 NO.11

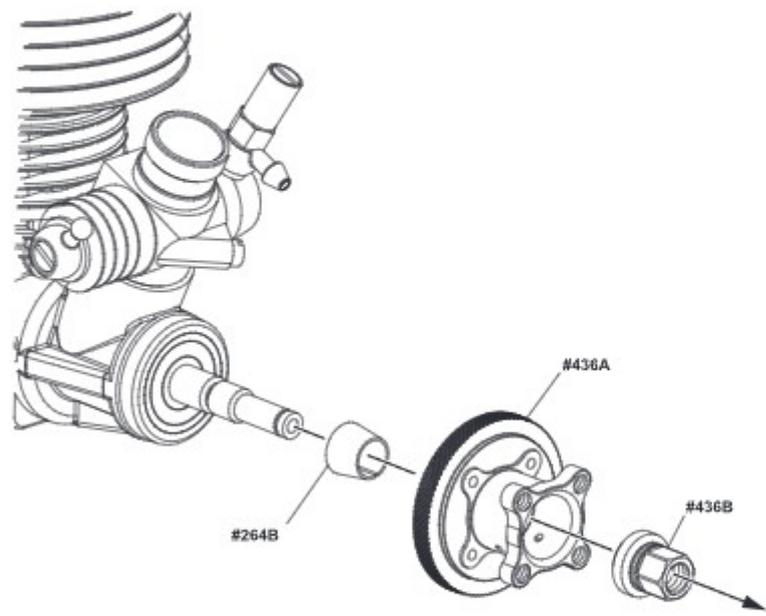
-  SNN3 Nylon Nutx1
-  SF3x10mm Flat Head Hex Screwx7
-  SB3x15mm Hex Screwx1



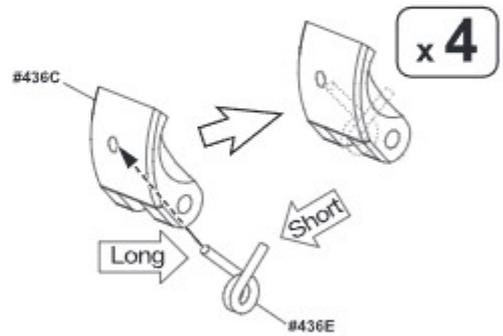
55 ASSEMBLY OF THE CLUTCH

 NO.7

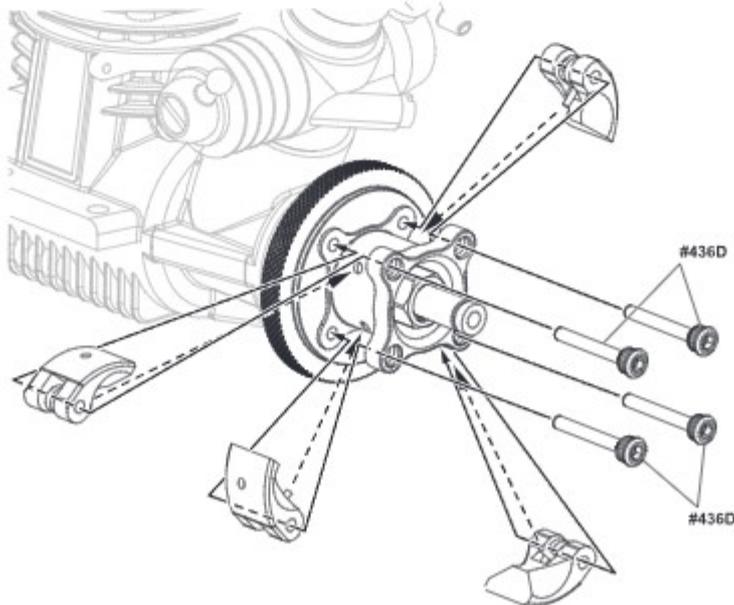
Step 1



Step 2



Step 3



56 ASSEMBLY OF THE CLUTCH BELL AND ENGINE MOUNT

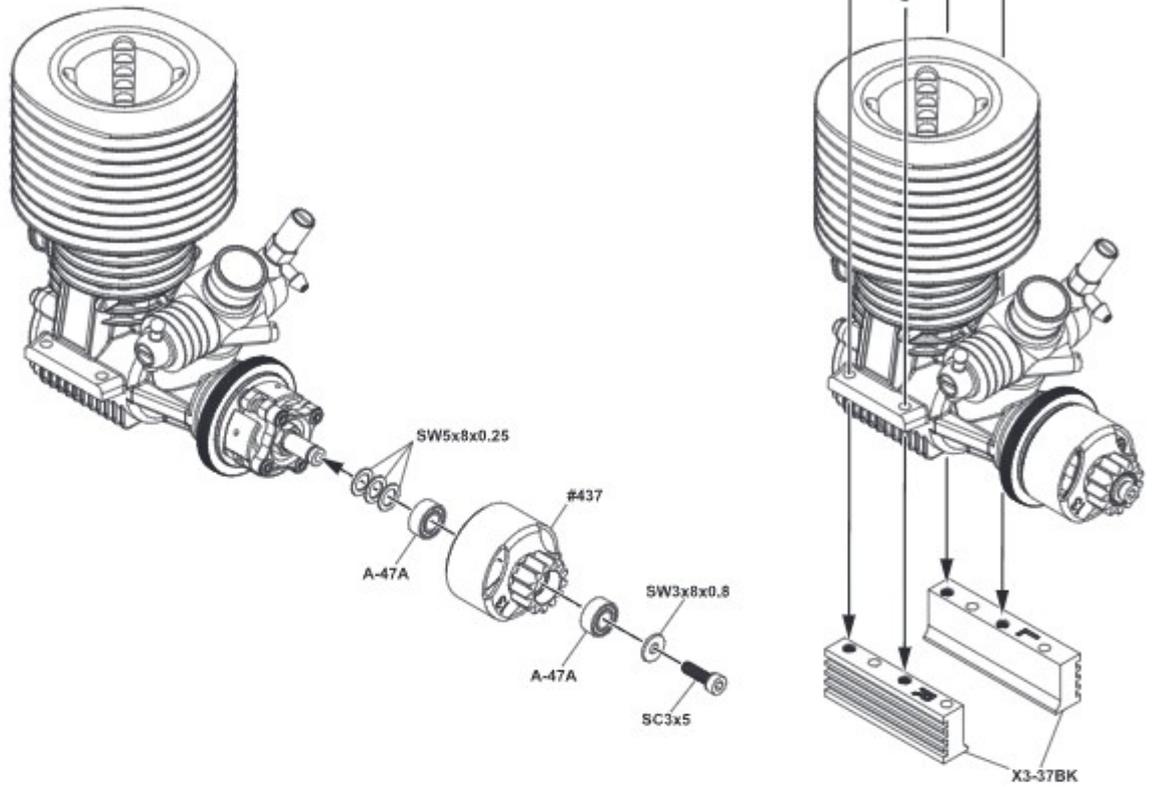


NO.7

Step 1

Step 2

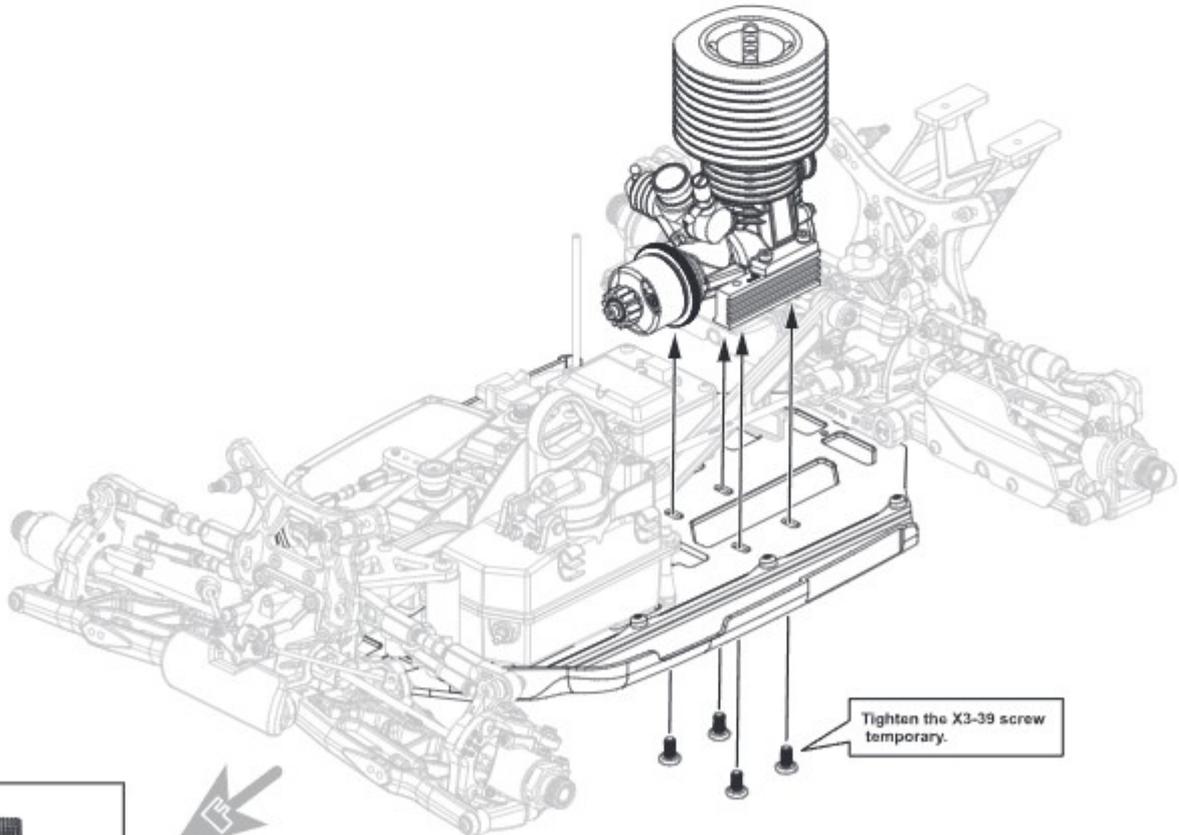
	SC3x5mm Cap Screw	.....x1
	SC3x12mm Cap Screw	.....x4
	SW5x8x0.25mm Washer	.....x3
	SW3x8x0.8mm Washer	.....x1
	A-47A 5x10x4mm Ball bearing	.....x2



57 ASSEMBLY OF THE ENGINE ONTO CHASSIS

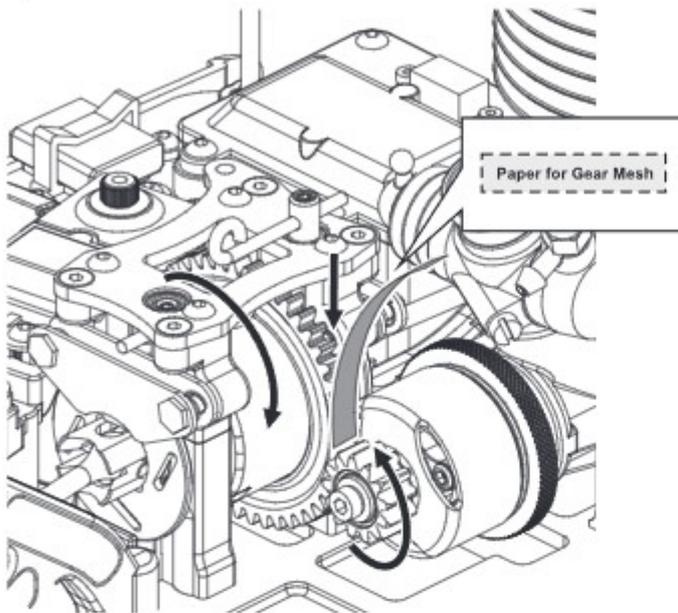


NO.7



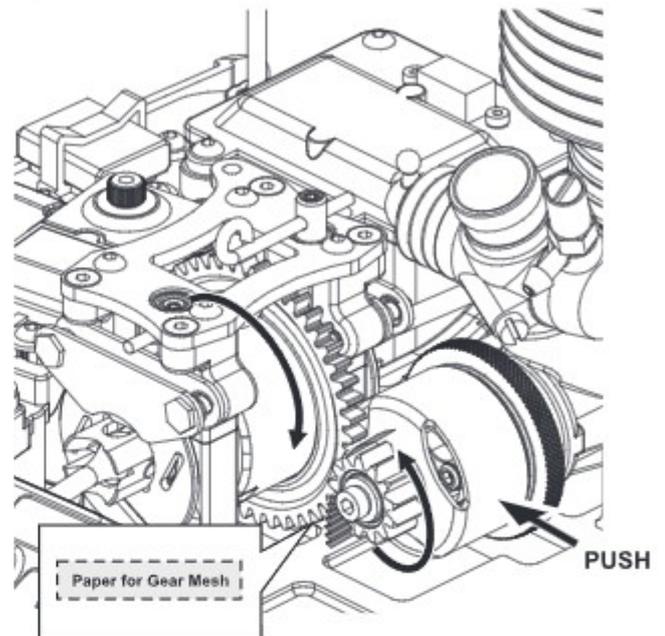
	X3-39 4x8mm Engine Mount Screwx4
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Step 1

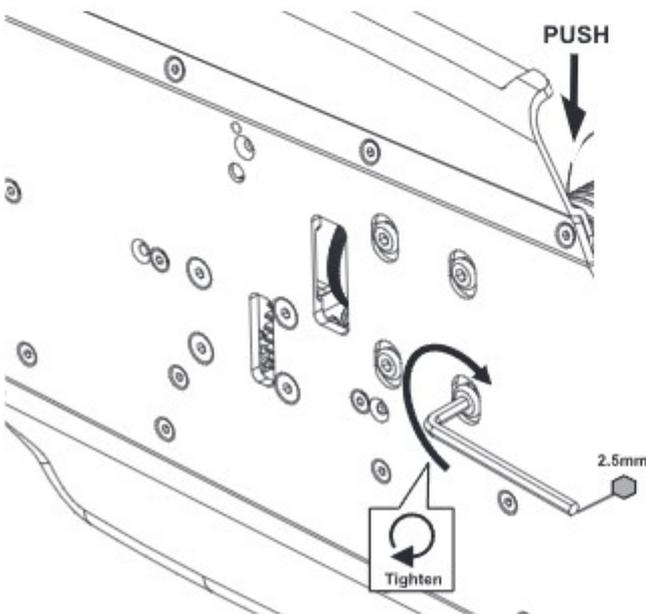


Insert a notebook paper between spur gear and motor gear to make correct gear mesh.

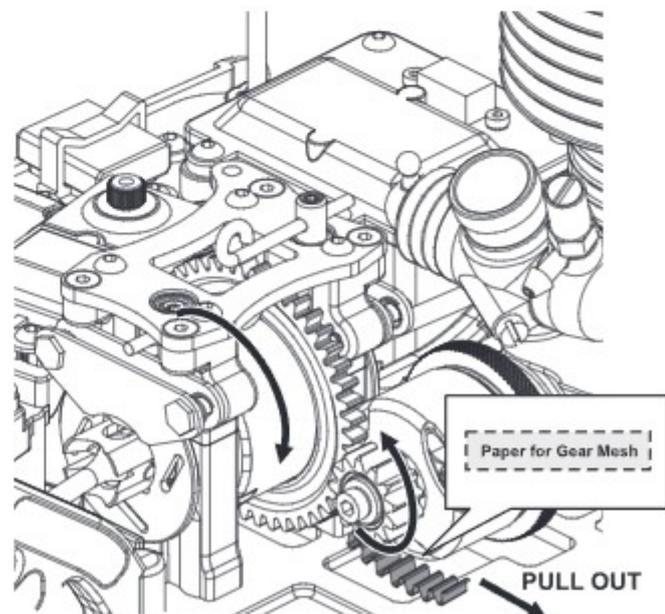
Step 2



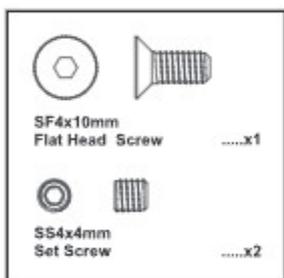
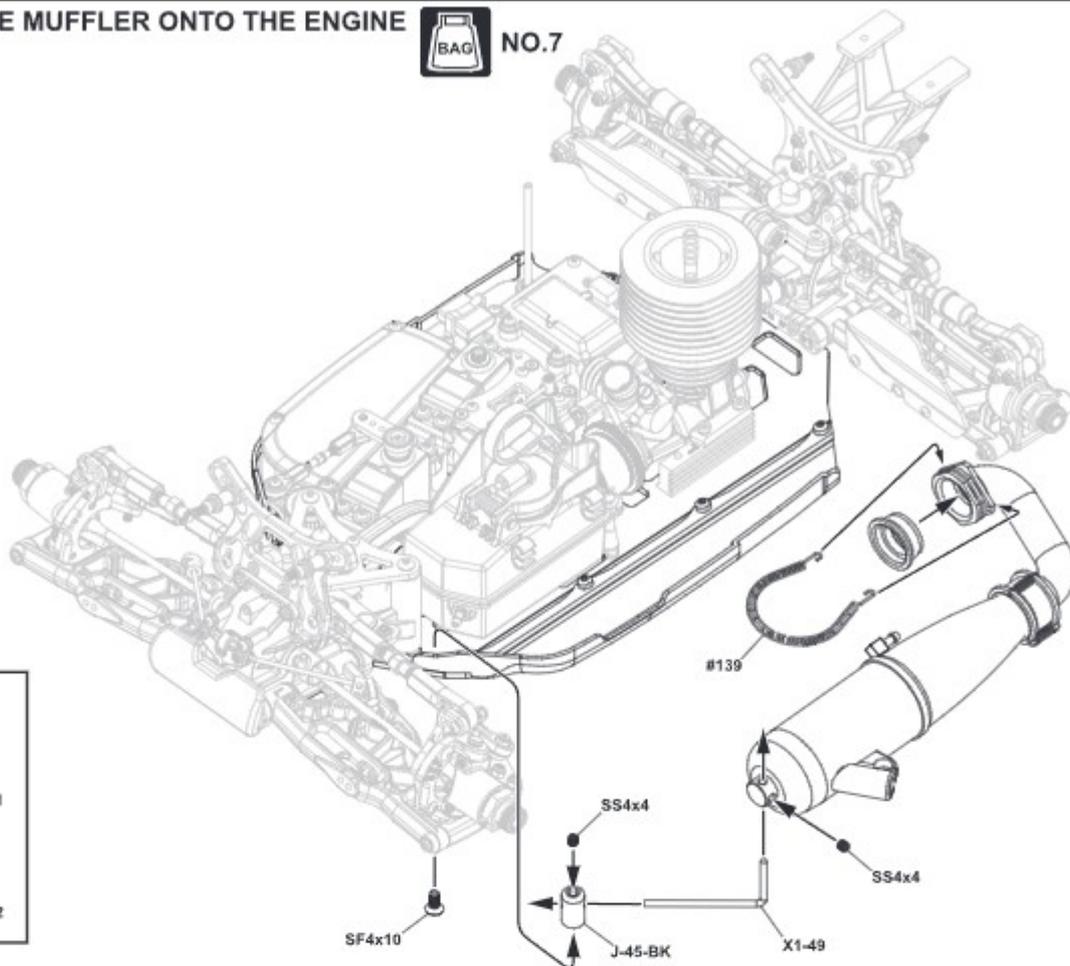
Step 3



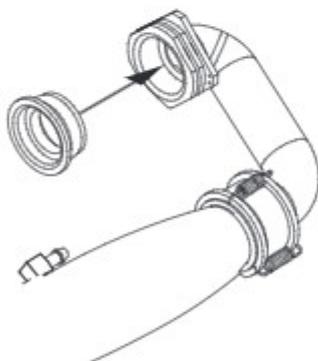
Step 4



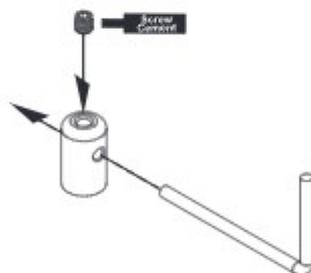
- Adjust the engine mount position to get proper gear mesh.
- To get a perfect gear mesh, place a piece of notebook paper between the gears and tighten the engine mount screws.
- If the gear mesh is not correct the spur gear will be damaged.



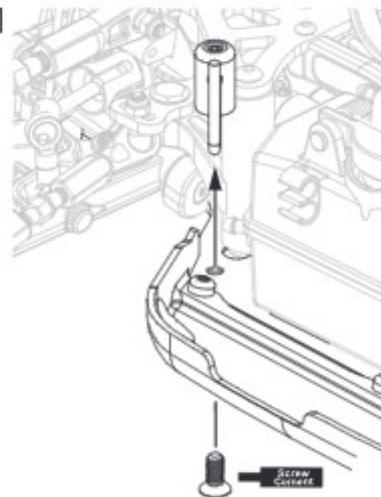
Step 1



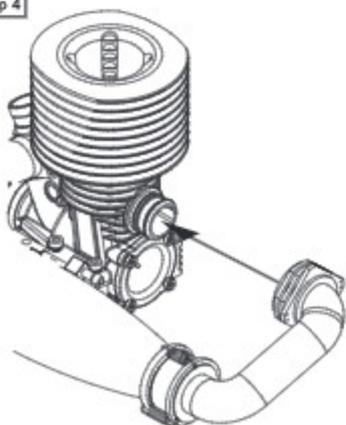
Step 2



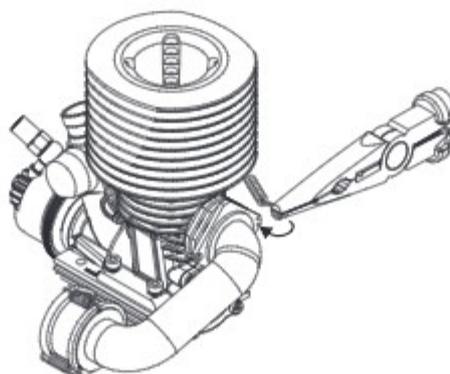
Step 3



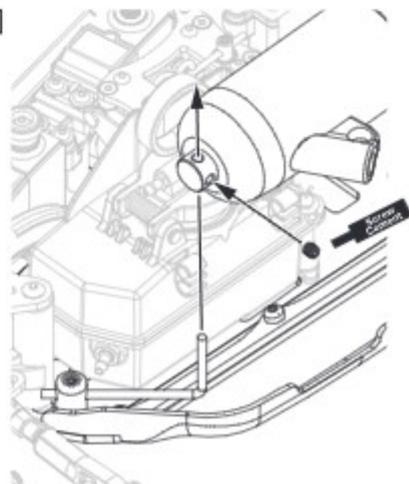
Step 4



Step 5

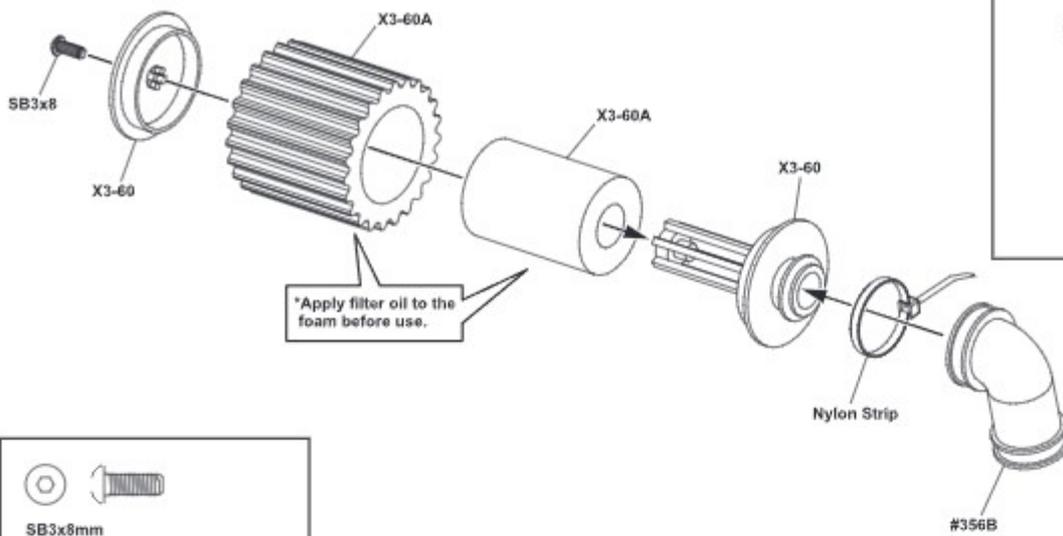


Step 6

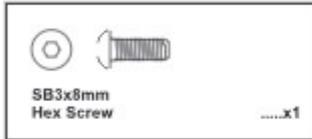
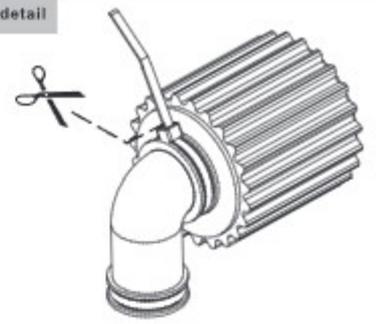


60 ASSEMBLY OF THE AIR FILTER

 NO.8

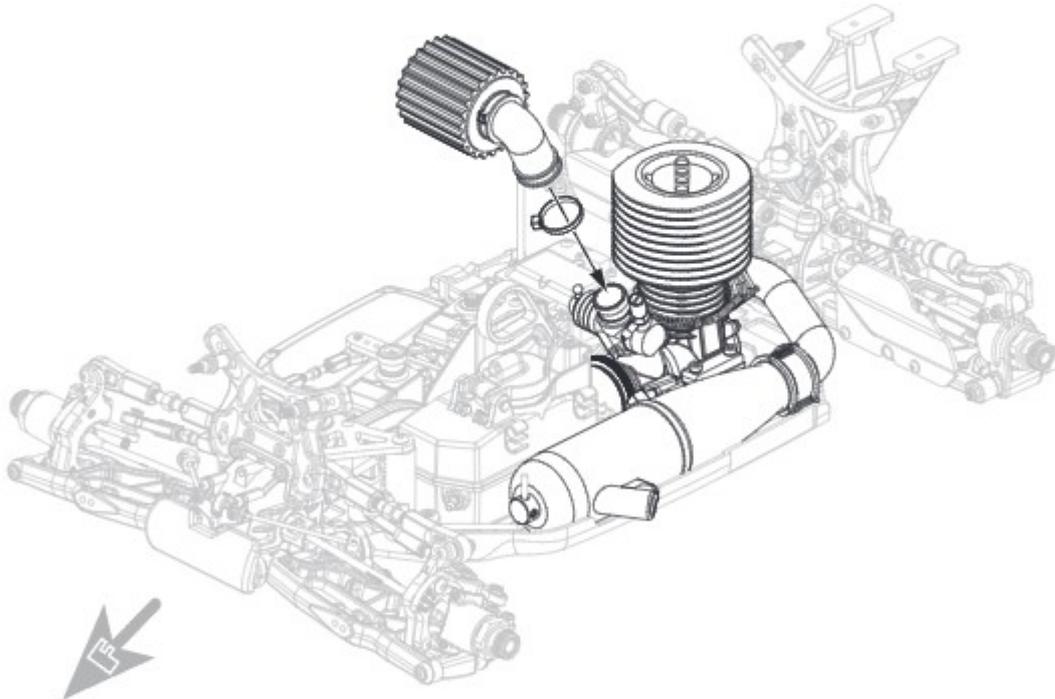


Step detail

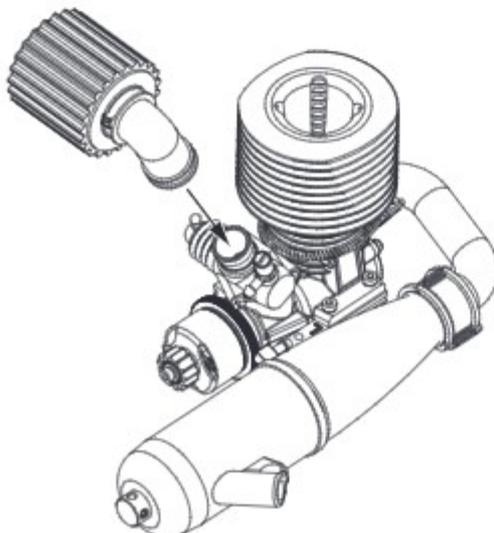


61 ASSEMBLY OF THE AIR FILTER ONTO ENGINE

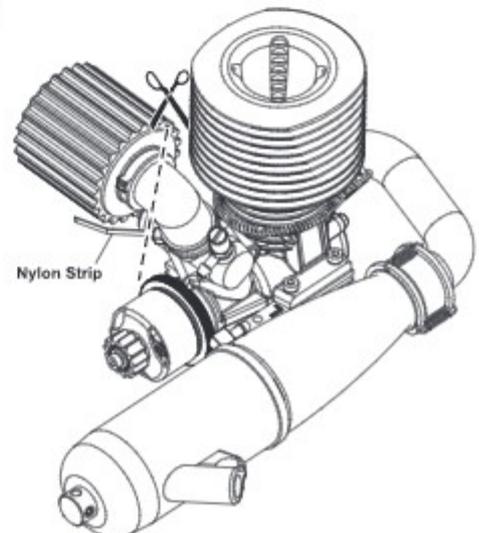
 NO.8



Step 1



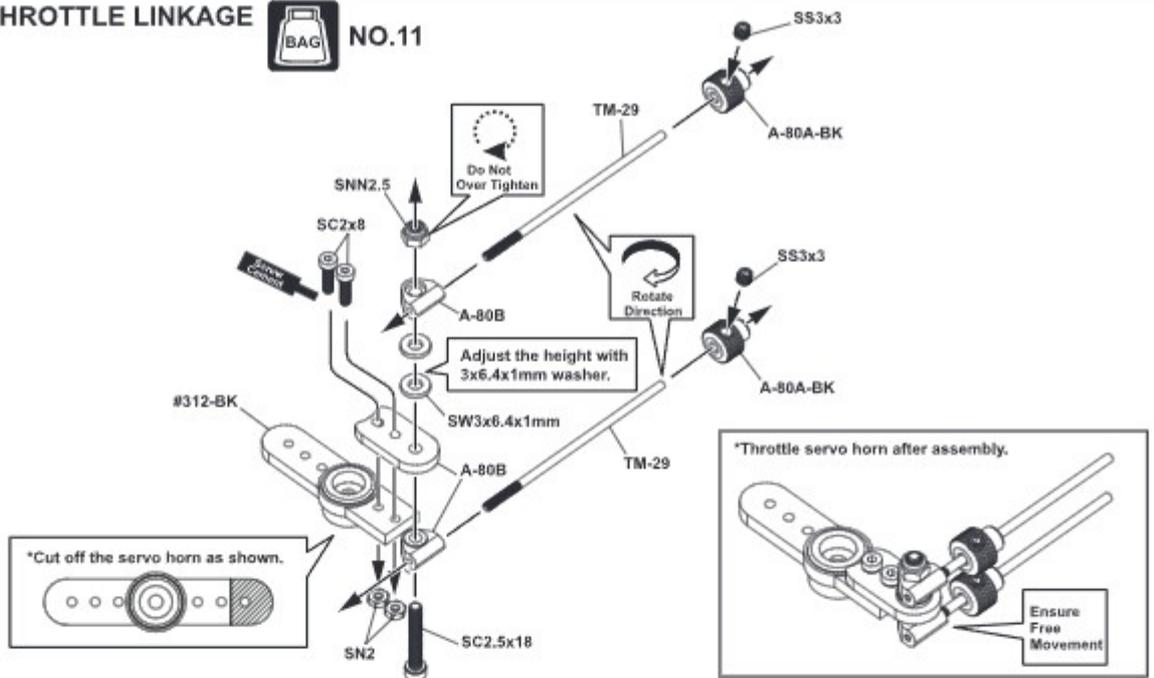
Step 2



62 ASSEMBLY OF THE THROTTLE LINKAGE

BAG NO.11

	.....x2
	.....x2
	.....x2
	.....x1
	.....x2
	.....x1

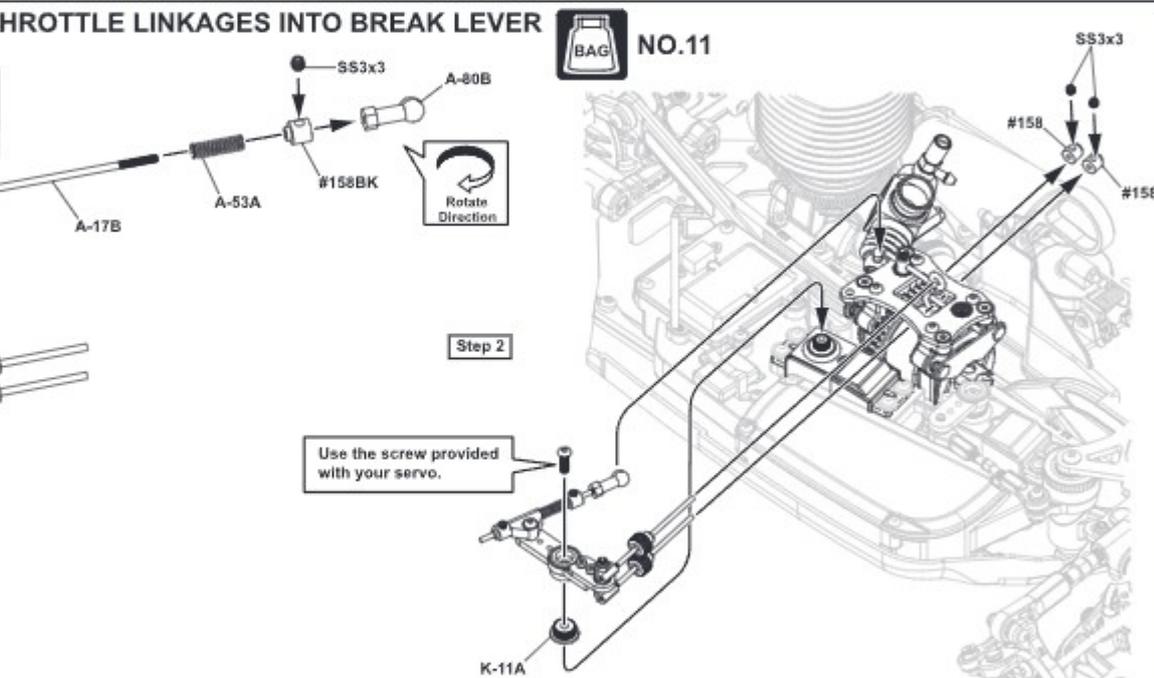


63 ASSEMBLY OF THE THROTTLE LINKAGES INTO BREAK LEVER

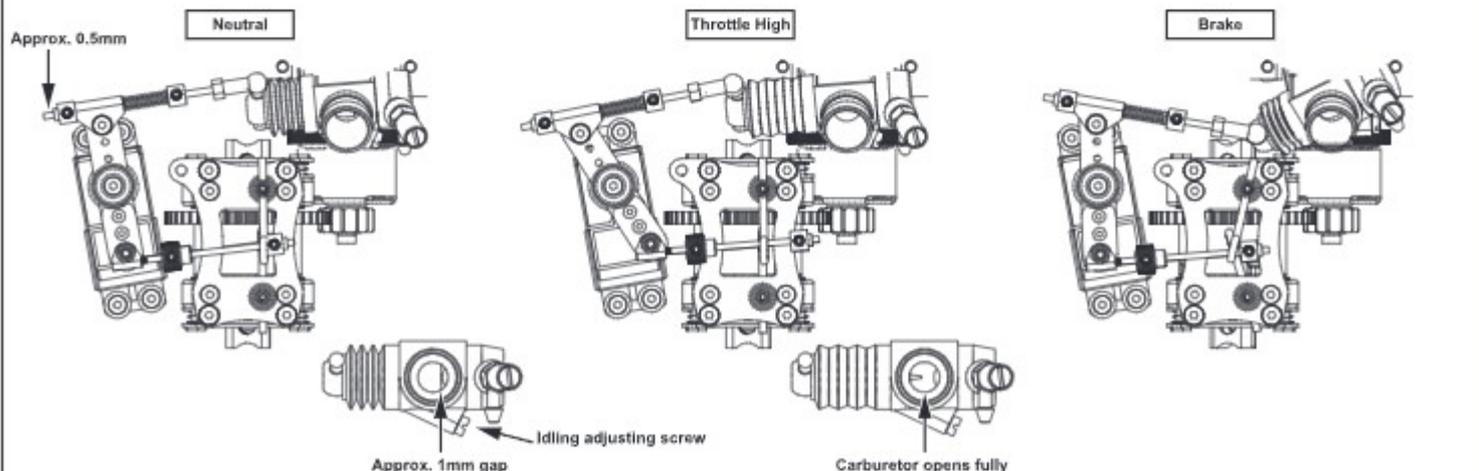
BAG NO.11

Step 1

	.....x4
	.....x1



64 ADJUSTING THE ENGINE CONTROL LINKAGES

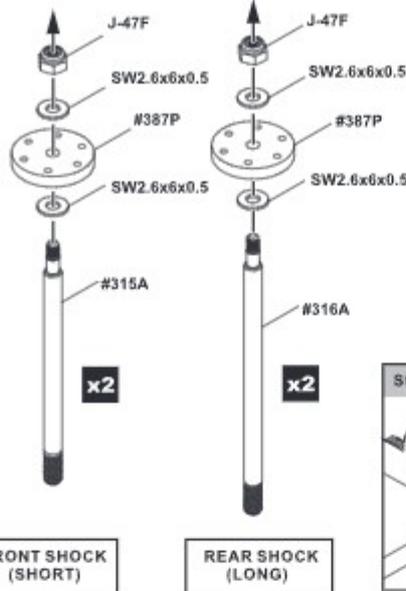
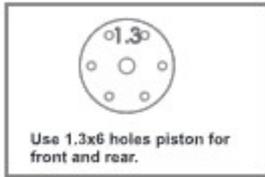


- Turn on the Transmitter and Receiver, then set the Engine Control Servo Trim to neutral position.
- Adjust the idling adjusting screw on the Carburetor to open approx 1mm gap.
- Adjust both #158 Engine Control and Brake linkage accordingly.
- Adjust the Engine while it is not running.
- Adjust the Servo-Horn mounting position for the Carburetor to be fully open.
- Change the pivot mounting position on the servo horn in case the Carburetor is not opening fully or is opening excessively. Or if available on the Transmitter, adjust the Throttle high end point.
- Adjust #158 so the brakes work smoothly.
- If the brakes apply too much or not enough, adjust A-80A accordingly. Or if available on the Transmitter, adjust the High-End Brake adjustment.
- Adjust A-80A to change the front or rear brake.

65 ASSEMBLY OF THE SHOCK SHAFTS

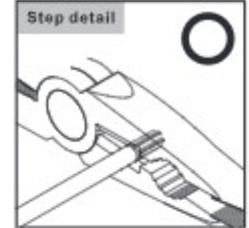
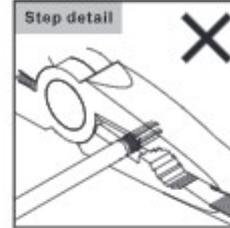
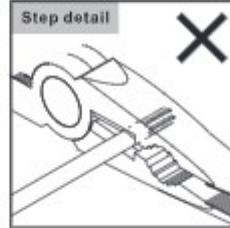
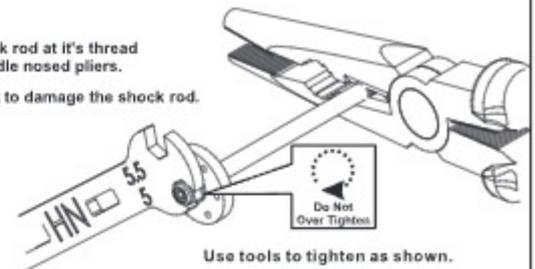
BAG NO.9

Assemble both left and right sides.



Step detail

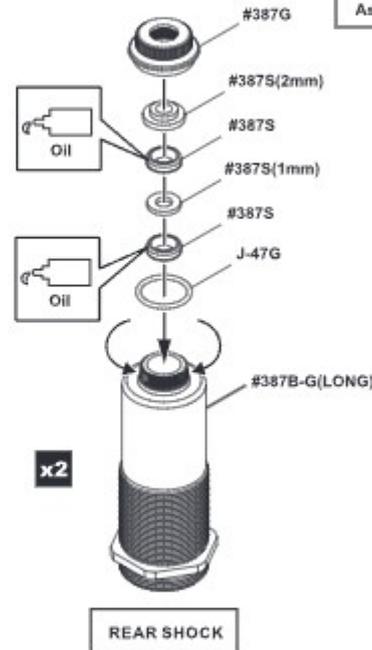
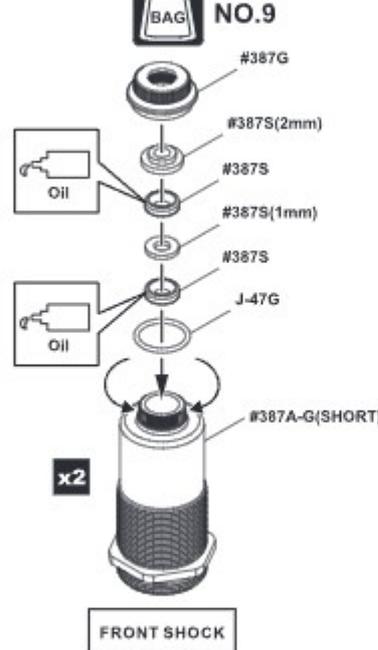
- Hold the shock rod at its thread with side needle nosed pliers.
- Be careful not to damage the shock rod.



66 ASSEMBLY OF THE SHOCK O-RING

BAG NO.9

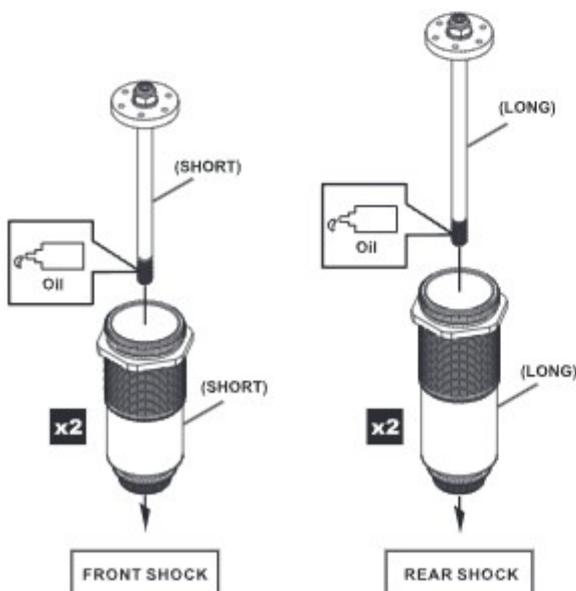
Assemble both left and right sides.



67 ASSEMBLY OF THE SHOCK SHAFTS INTO SHOCK BODIES

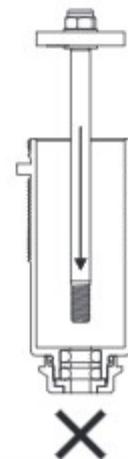
BAG NO.9

Assemble both left and right sides.

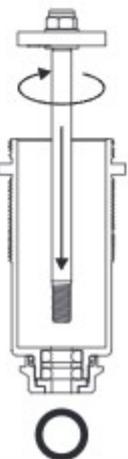


⚠ EXTREMELY IMPORTANT

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



Slowly twist the shock shaft to the bottom.



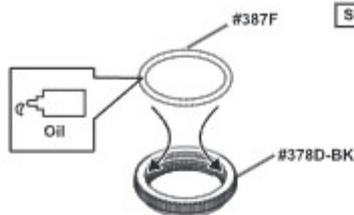
68 ASSEMBLY OF THE SHOCK ADJUST RING



NO.9

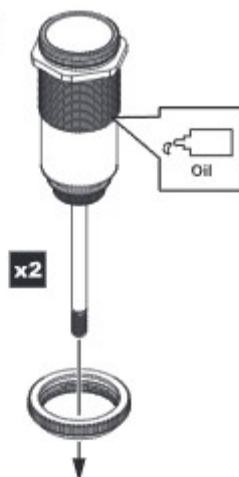
Assemble both left and right sides.

Step 1



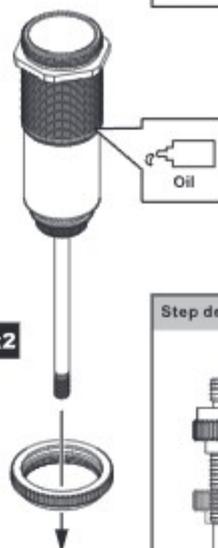
Fit the o-ring into groove before assembly.

Step 2



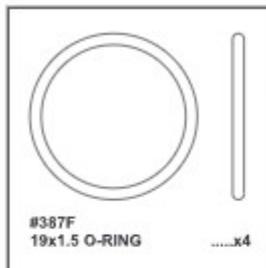
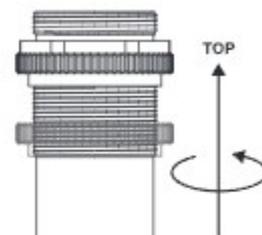
FRONT SHOCK

x2



REAR SHOCK

Step detail



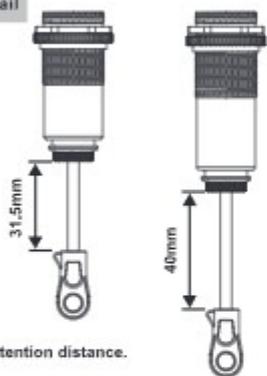
69 ASSEMBLY OF THE SHOCK BALL END



NO.9

Assemble both left and right sides.

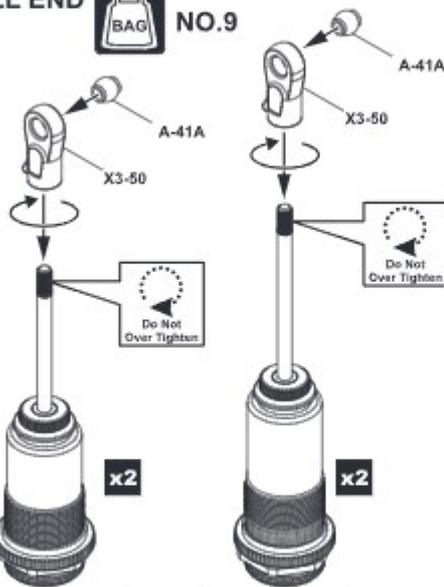
Step detail



Attention distance.



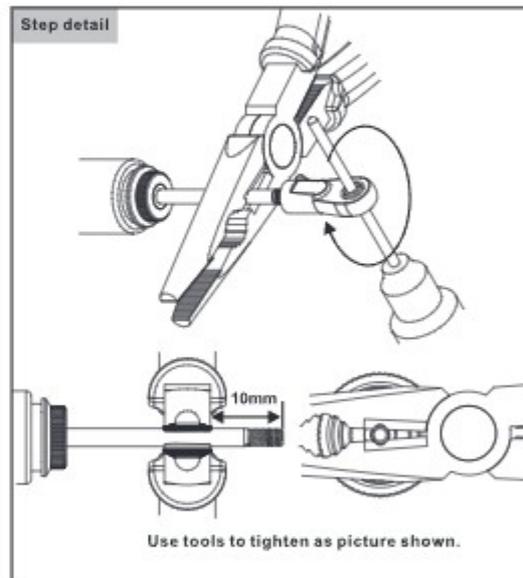
A-41A 6mm Ball x4



FRONT SHOCK

REAR SHOCK

Step detail



Use tools to tighten as picture shown.

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



NO.9

Assemble both left and right sides.

Step 1

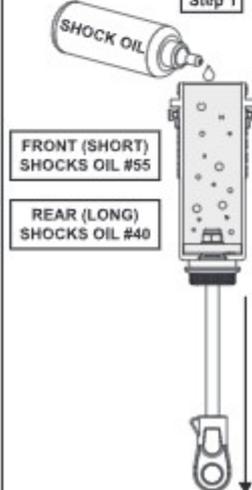
Step 2

Step 3

Step 4

Step 5

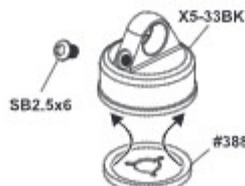
Step 6



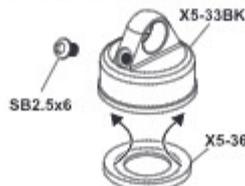
3-5x UP & DOWN



1 Air-Filled Shock Absorbers



2 Airless Shock Absorbers



- Leave the filled shock vertically for several minutes with the shock shaft fully extended.
- The remaining air bubbles will release.

TIGHTENED HALF WAY 50%

TIGHTENED 100%



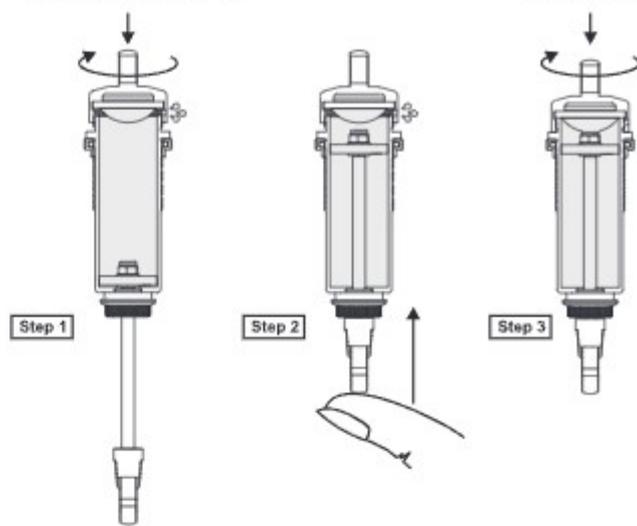
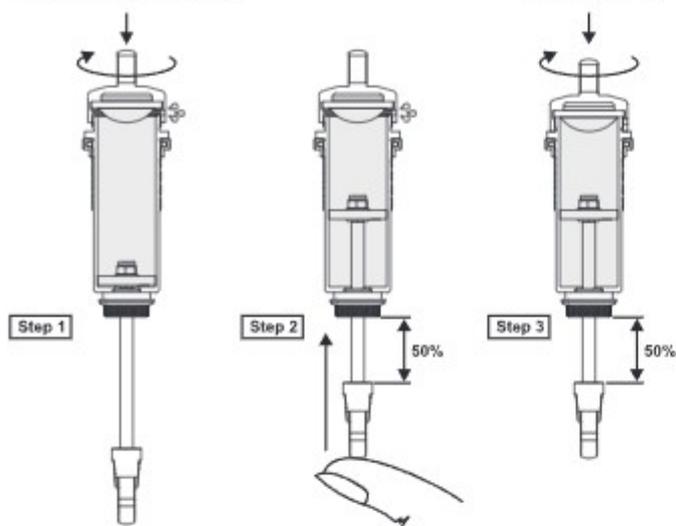
71 SETTING THE SHOCK REBOUND TO 50% & 0% (MEDIUM REBOUND & LOW REBOUND)

TIGHTENED HALF WAY 50%

TIGHTENED 100%

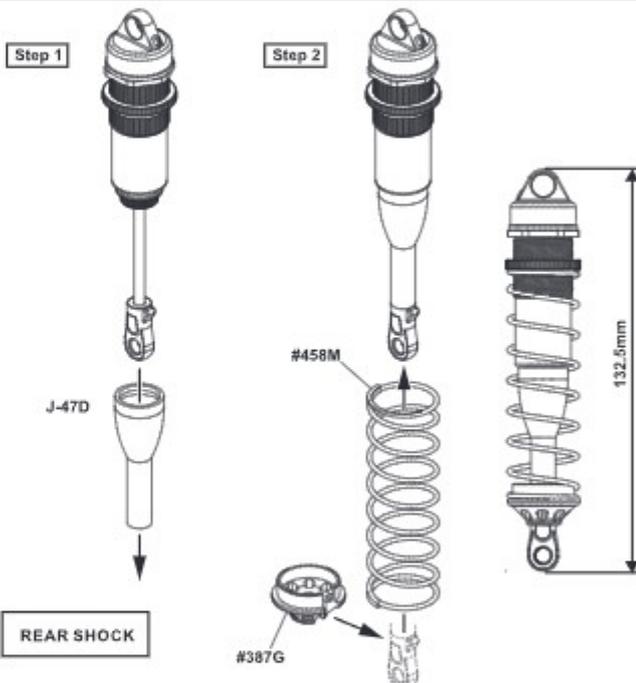
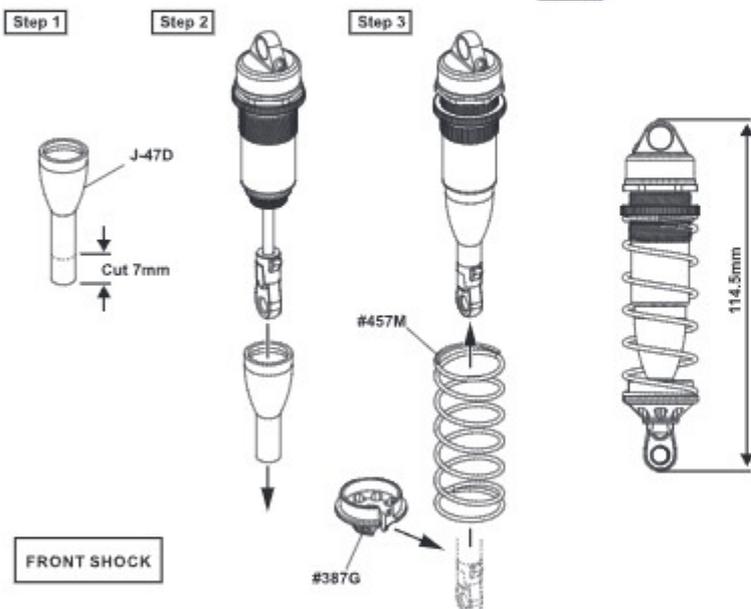
TIGHTENED HALF WAY 50%

TIGHTENED 100%



72 ASSEMBLY OF THE SHOCKS SPRING

BAG NO.9

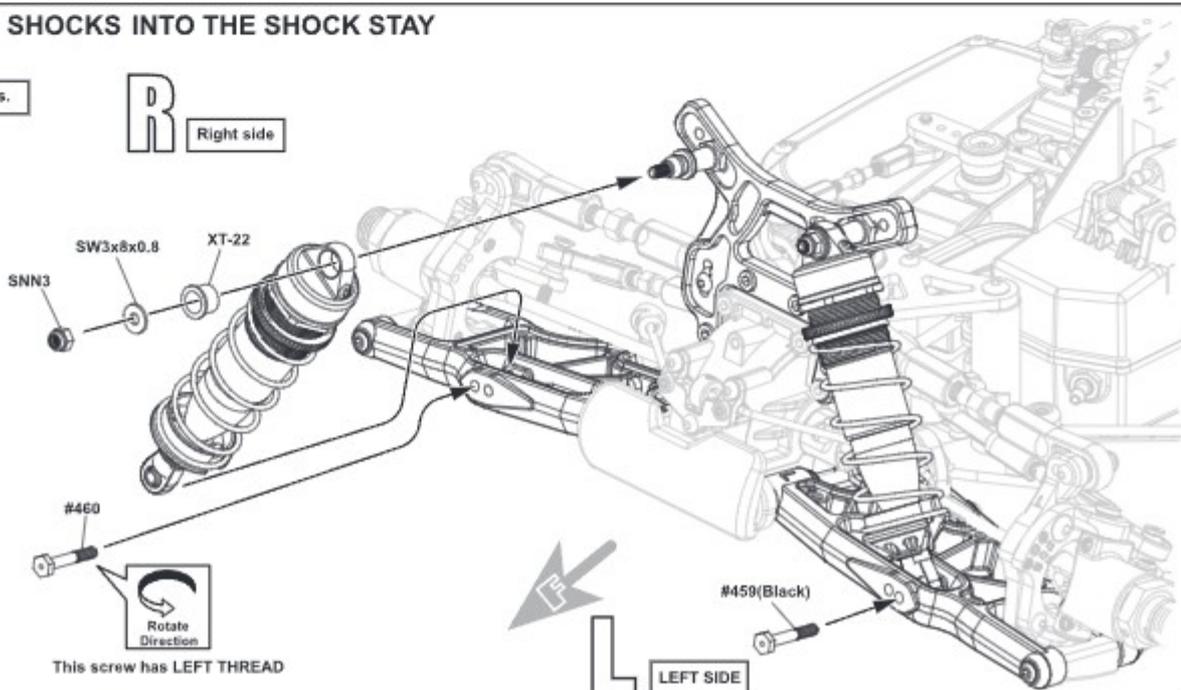


73 ASSEMBLY OF THE SHOCKS INTO THE SHOCK STAY

Assemble both left and right sides.

R Right side

	.....x2
	.....x2
	.....x1
#460 3x18mm Left Thread Screw"/>	.....x1

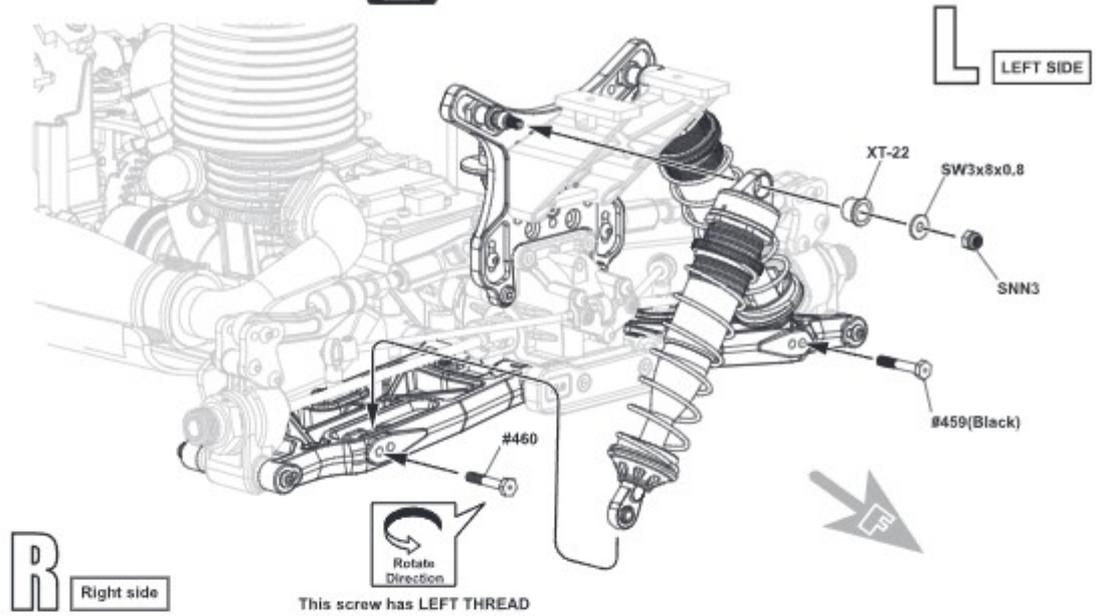


74 ASSEMBLY OF THE SHOCKS INTO THE SHOCK STAY

BAG NO.9

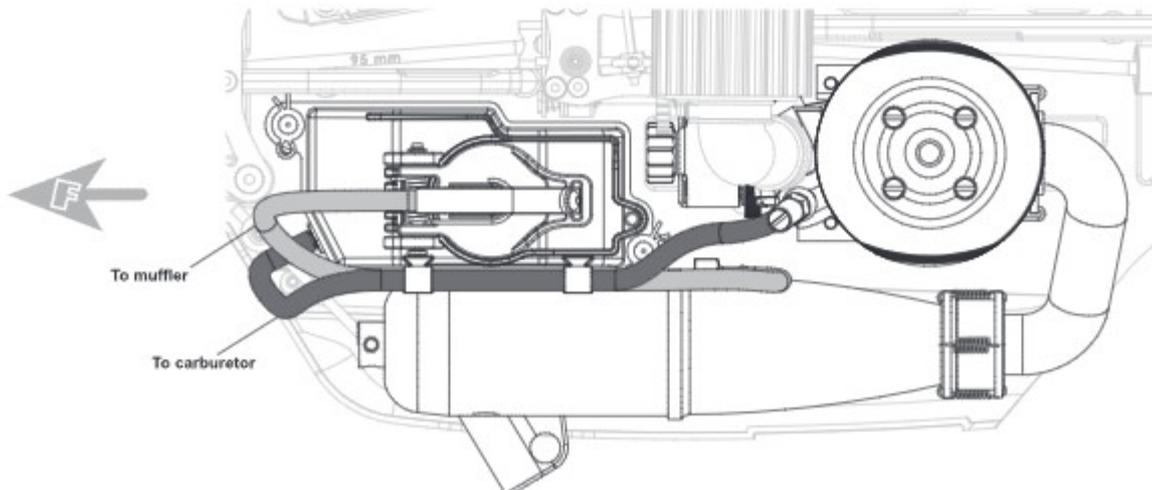
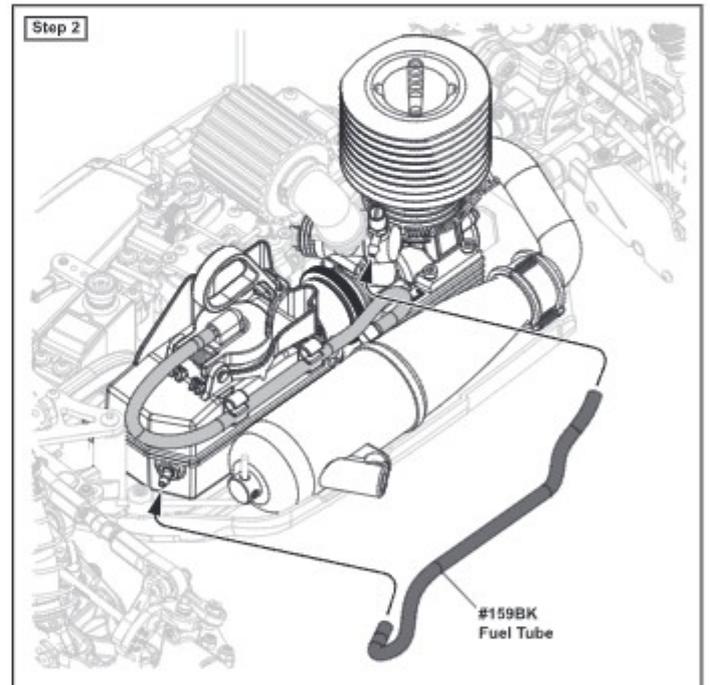
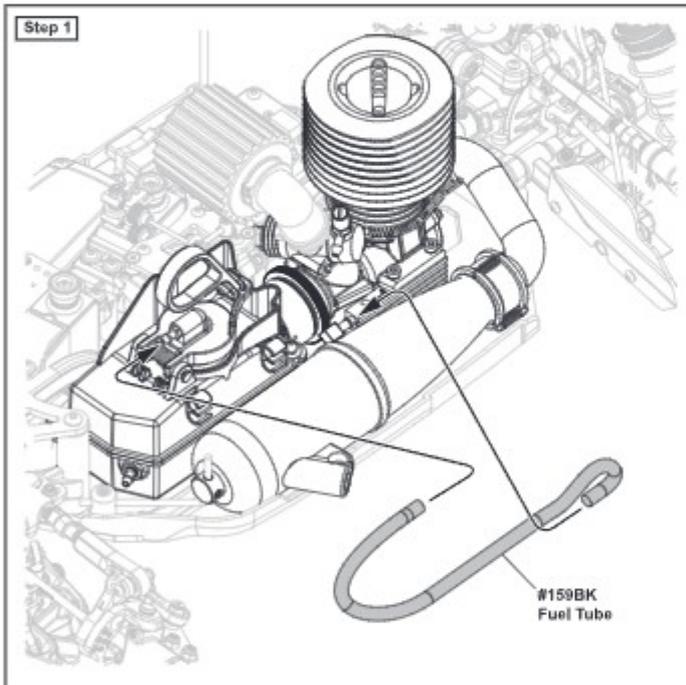
Assemble both left and right sides.

	.....x2
	.....x2
	.....x1
	.....x1



75 ASSEMBLY OF THE FUEL TUBE

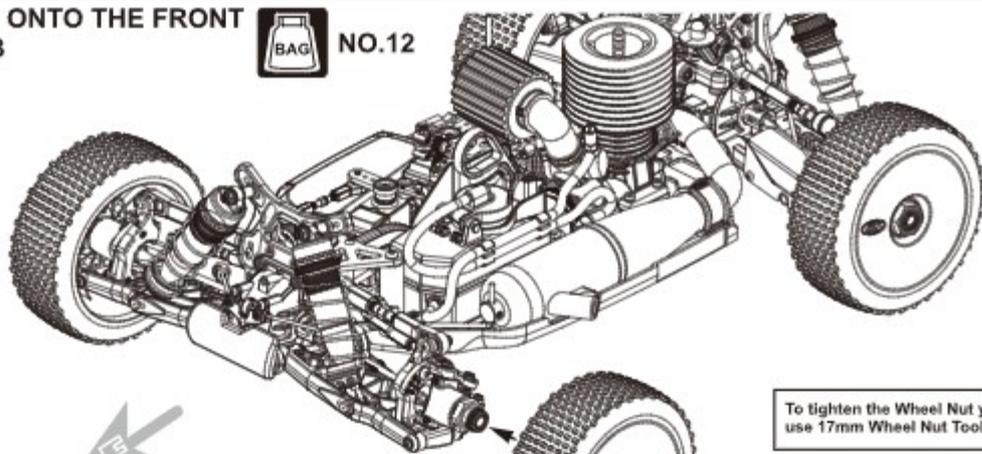
BAG NO.10



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

BAG NO.12

R Right side

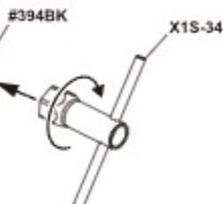


Assemble both left and right sides.



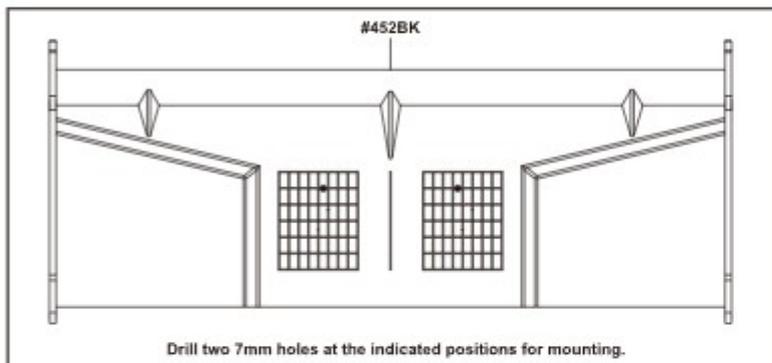
#394BK Wheel Nutx4

To tighten the Wheel Nut you can also use 17mm Wheel Nut Tool.(X15-34)



L LEFT SIDE

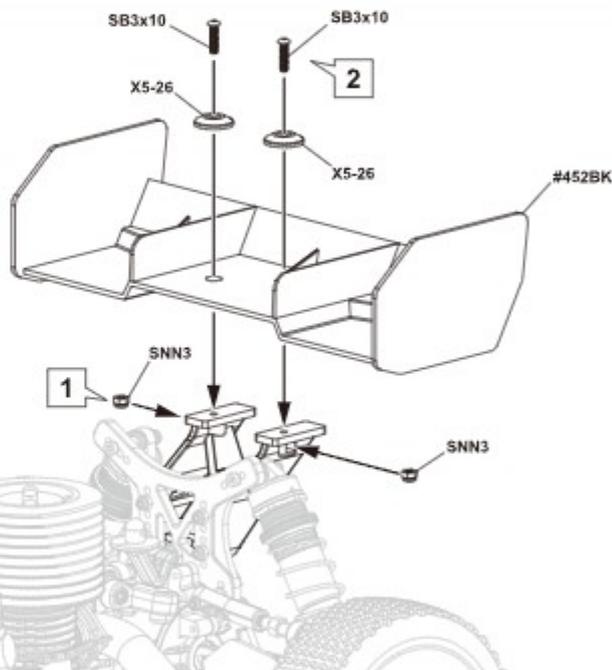
77 ASSEMBLY OF THE WING



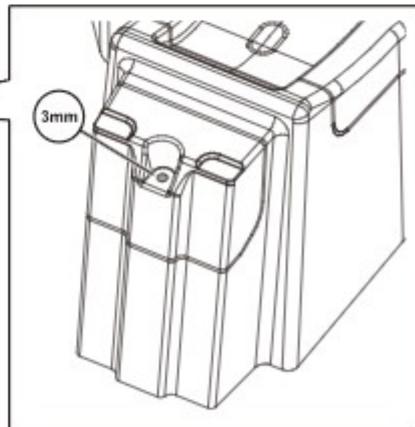
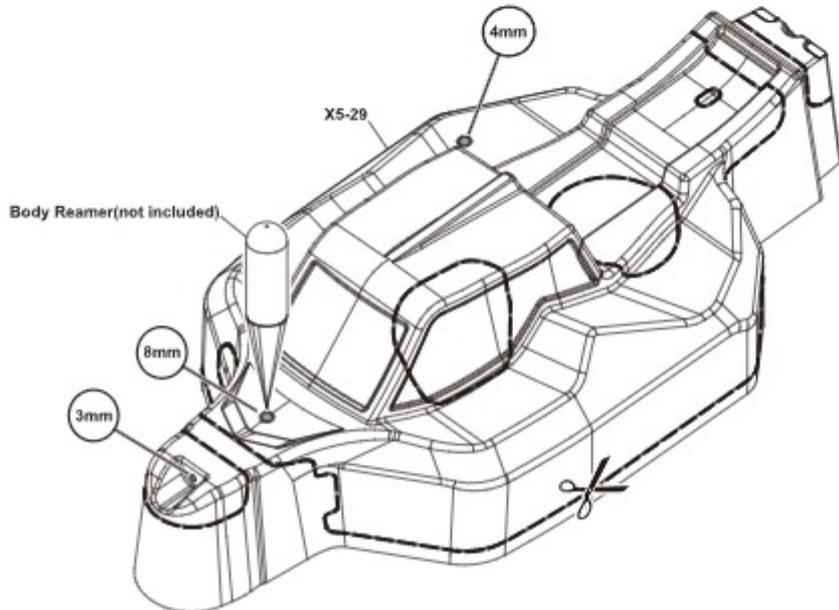
SNN3 Nylon Nutx2



SB3x10mm Hex Screwx2

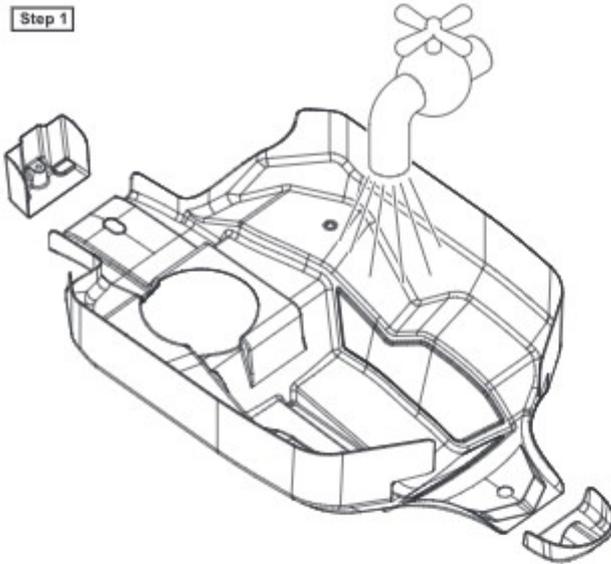


78 MAKING HOLES AND CUTTING ON THE BODY SHELL

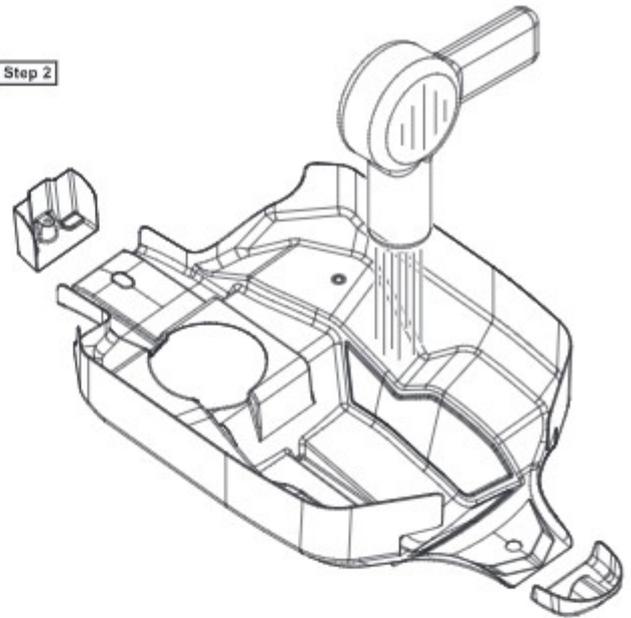


79 WASH THE INSIDE OF THE BODY SHELL

Step 1



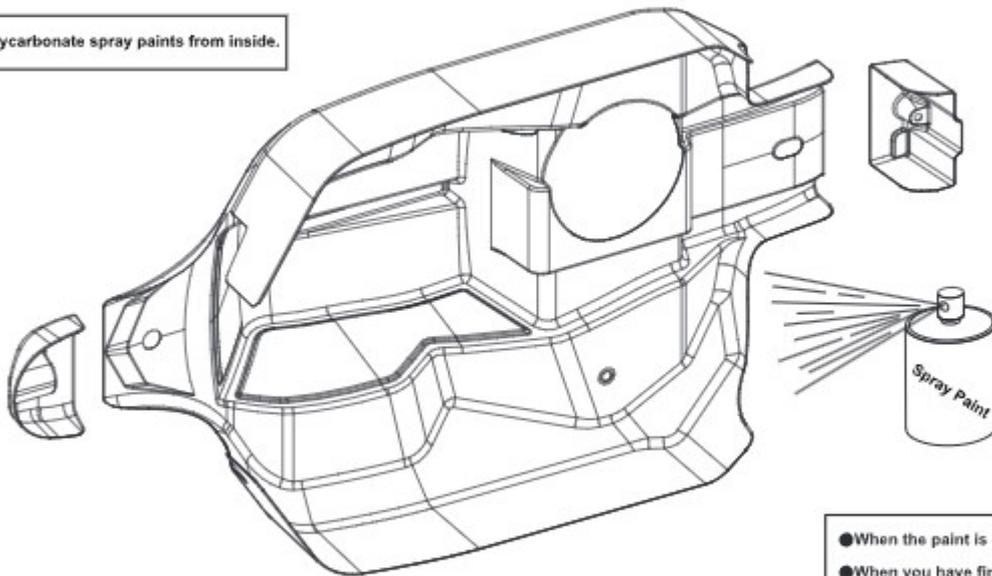
Step 2



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

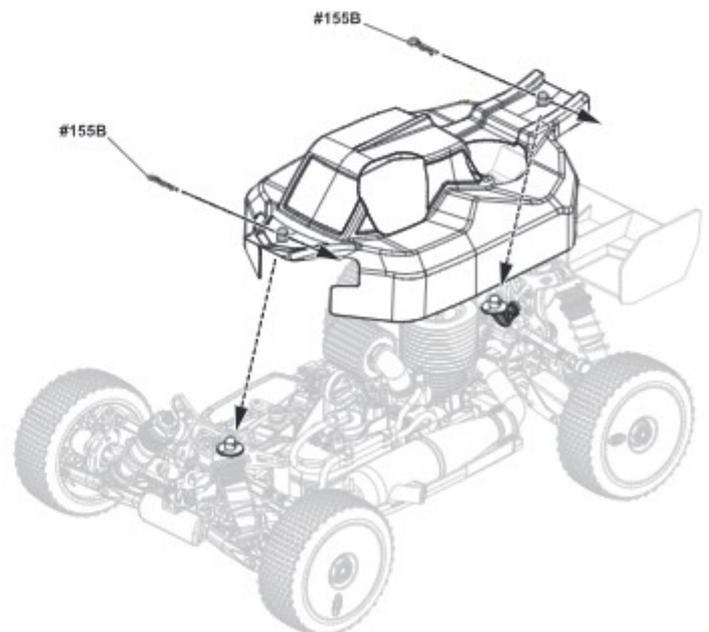
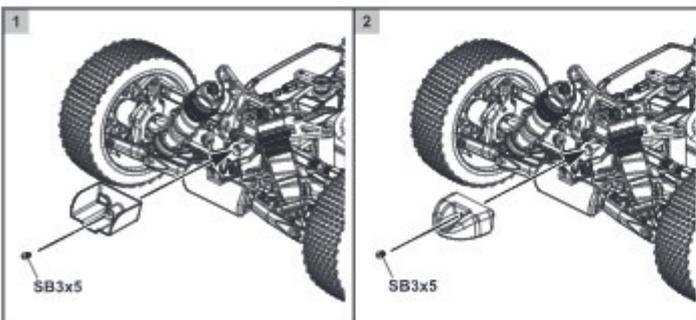
80 PAINTING BODY SHELL

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.

81 MOUNTING THE BODY SHELL

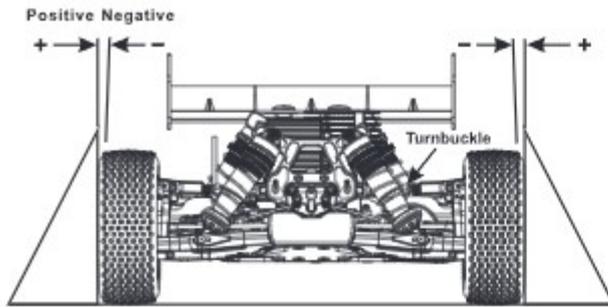


SB3x5mm
Hex Screw

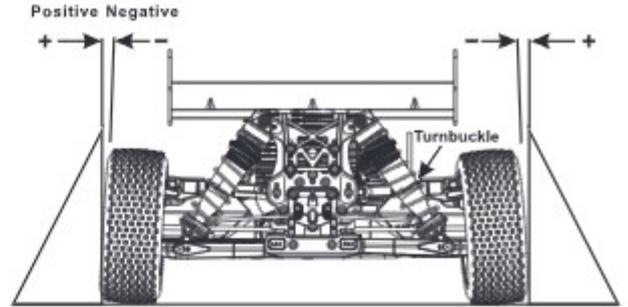
.....x1

TIRES SETTING GUIDE

FRONT CAMBER ANGLE SETTING

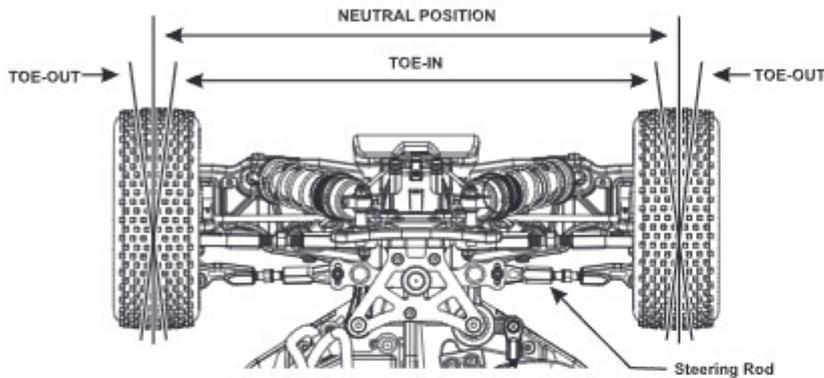


REAR CAMBER ANGLE SETTING



- 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

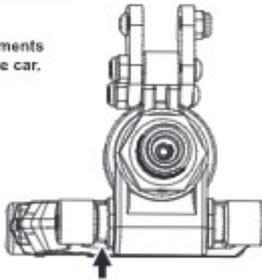
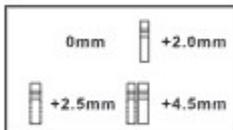


Adjust the length of front steering rod to change the toe angle.

- 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

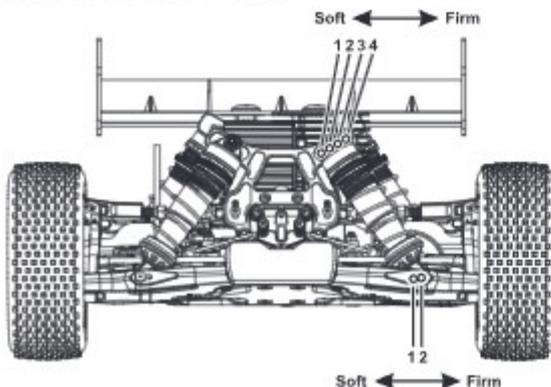
- Less spacers in front of the rear wheel hub.
- Increases rearward weight transfer during acceleration.
- Increases on-power traction.
- Quicker off-power steering into corners.
- Slight tendency to push on-power at corner exit.
- Increases steering response.
- Better on tighter, more technical tracks.

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.

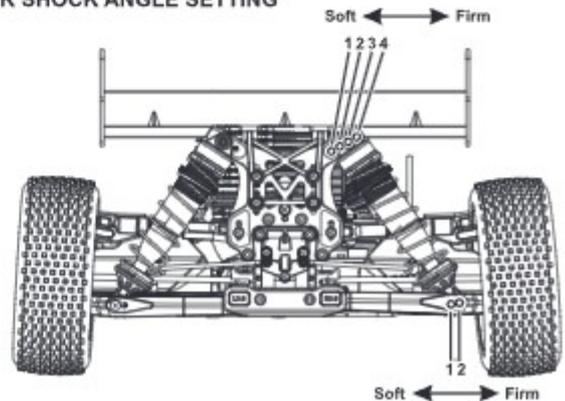
- Different shock positions will result in firmer or softer response of the suspension system.
- Install the shock in an inward angle will cause softer rebound. Softer or firmer suspension system will lead to different steering response.
- Adjust the shock angle positions according to track conditions.

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.

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

X5B SETUP SHEET

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
<input type="checkbox"/> STD	<input type="checkbox"/> STD	<input type="checkbox"/> STD
OIL wt.		
FRONT	CENTER	REAR

CLUTCH

SHOE BRAND _____
 COMPOUND ALUM CARBON
 SPRING BRAND _____
 TENSION _____ mm
 CLUTCH SHOES _____ SHOE

GEARING

SPUR GEAR _____ T
 PINION GEAR _____ T

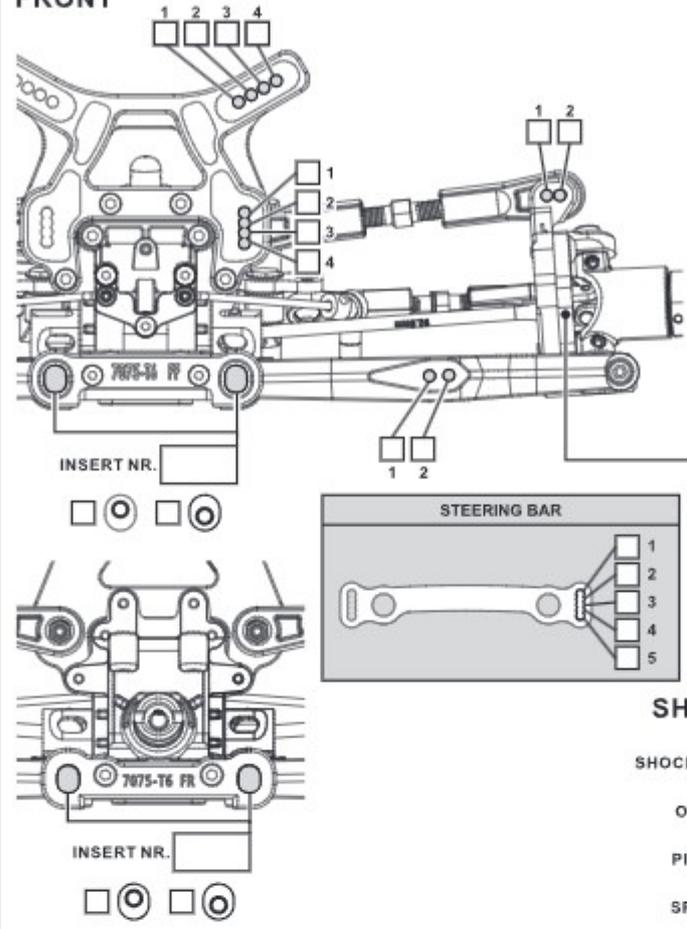
TIRES

FRONT TYPE _____
 COMPOUND _____
 INSERT FOAM _____
 REAR TYPE _____
 COMPOUND _____
 INSERT FOAM _____

ENGINE

TYPE _____
 PORT _____
 PLUG _____
 NORMAL TURBO
 HEAD CLEARANCE _____
 PIPE _____
 FUEL BRAND _____

FRONT



RIDE HEIGHT _____ mm
 SWAY BAR _____ mm
 CAMBER ANGLE _____ °
 TOE ANGLE _____ °

PLASTIC ALUM

FRONT SPINDLE CARRIERS CASTER
 15° 17.5° 20°

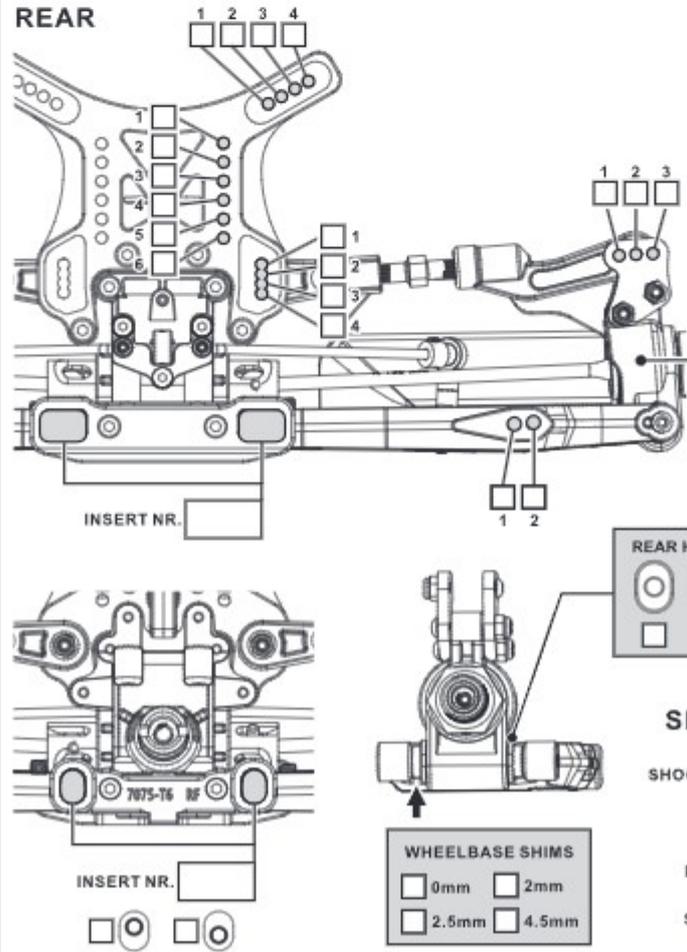
SHOCK

FRONT

SHOCK LENGTH _____ mm
 OIL wt. _____
 PISTON _____
 SPRING _____

SHOCK LENGTH

REAR



RIDE HEIGHT _____ mm
 SWAY BAR _____ mm
 CAMBER ANGLE _____ °

PLASTIC ALUM

WHEEL HUB
 PLASTIC ALUM

SHOCK

REAR

SHOCK LENGTH _____ mm
 OIL wt. _____
 PISTON _____
 SPRING _____

SHOCK LENGTH

X5B PARTS LIST

Part No.	Description	Q'TY	Part No.	Description	Q'TY
A-17A	Brake Lever	2	X3-43	Diff. Case (F&R)	1
A-17B	Brake Rod	2	X3-46	Suspension Bracket Inserts	1set
A-34B	Stabilizer Ball End	2	X3-49	Body Post/Center Brace	1set
A-41A	6mm Ball	6	X3-50H	Plastic Rod End Hard	1set
A-47A	Ball Bearing 5x10x4	2	X3-52	Front Bumper / Rear MudGuard	1set
A-53A	Throttle Spring	2	X3-60A	Air Filter Foam	2
A-80A-BK	2mm Brake Adjust Nut (Black)	2	X3-60P	Air Filter Plastic Parts	1set
A-80B	Throttle Linkage Plastic	1set	X3.6-07	4x67.6mm Arm Shaft	2
C-27	Servo Fixing (Lay down)	1set	X3S-04	Diff. Cap Joint (Lightweight)	2
E-37	6mm Ball & Socket	6	X3S-16	Rear Upright 3.5mm	2
G-25	7mm Ball	6	X3S-27B	CNC Brake Disk	1
G-26	5x35 Turnbuckle	2	X3S-27C	CNC Brake Disk, Small	1
J-03A	P-6 O-Ring	2	X3S-44C	4x35mm Turnbuckle	2
J-20	Diff Bevel Gear Shim 13x16x0.2mm	4	X3S-44D	CNC Alum. Servo Saver Connecting Plate	1
J-33	Steering Plate Hex Screws	2	X3GT-40	Cup Joint For Planet Gear	2
J-45-BK	Muffler Stay Post (Black)	1	X3GT-71E	Fixing Pin	2
J-47D	Shock Shaft Dust Covers	4	X5-01	CNC 7075-3mm Lightweight Chassis	1
JS-06B	Bearing 4x8 Flange	2	X5-02	CNC 7075 Front Shock Tower	1
JS-14B	6x10 Ball Bearing	4	X5-03	CNC 7075 Rear Shock Tower	1
K-11A	Insert for Servo Saver	1set	X5-04	CNC 7075 Suspension Bracket, FR	1
L-26	3x36mm Turnbuckle	2	X5-05	CNC 7075 Suspension Bracket, FF	1
TM-29	Brake Link 2x52mm	2	X5-06	CNC 7075 Suspension Bracket, RF	1
TM-48	Stabilizer Ball End	8	X5-07	CNC 7075 Suspension Bracket, RR	1
X1-10H	Servo Saver Tube, Hard-Coated	1	X5-08	Alum.Angle Adjustable C-Hub Set	1set
X1-26-G	Alum. Wheel Hub.(Gold)	2	X5-09A	Steering Block Set	1set
X1-27	Knuckle Arm Bushing	4	X5-09B	Carbon Steering Block Arm Set	1set
X1-29	Front Stabilizer 2.0mm	1	X5-10	Alum. Swaybar Pin	2
X1-30	Rear Stabilizer 2.5mm	1	X5-11	Topdeck Carbon	1
X1-31	Shock Ball End Post/ One-Piece/ Top	4	X5-12	Carbon Center Diff Top Plate	1
X1-49	Muffler Stay	1	X5-15	Front CVD Drive Shaft 92.5mm	2
X1S-52C	CNC Brake Cam, Long	1	X5-16	Servo Saver Post	2
X1S-52D	CNC Brake Cam, Short	1	X5-17	5x50mm Turnbuckle	2
X1S-55A	Servo Saver, Plastic	1set	X5-18	Steering King Pin	4
XT-22	Plastic Shock Parts Set	1	X5-19	Anti-roll Bar Collet	2
XT-30B	Fuel Tank Post	1set	X5-20	Servo Saver Spring	1
XT-31	Plastic Center Diff. Mount	1set	X5-21	Gear Case	1set
X3-01	Spiral Bevel Gear 43t	1	X5-22	Lower Arm Front	1set
X3-02	Spiral Bevel Gear 13t	1	X5-23	Lower Arm Rear	1set
X3-03	Diff. Gear 10Tx4, 20Tx2	1set	X5-24	Receiver/ Battery Box	1set
X3-06	Drive Shaft Insert, 2.5 x12.8 Pin	4	X5-25A	Rear Hub L, R	1set
X3-07	CVD Wheel Axle	2	X5-25B	Carbon Rear Plates	2
X3-26	Brake Spring	4	X5-26	Wing Mount	1set
X3-31	7x8.5mm Ball & Socket	4	X5-27	Diff. Cap Joint (Lightweight)	2
X3-32	7x12mm Ball & Socket	4	X5-28	Fuel Tank	1
X3-34	2.5x11.8 Pins	10	X5-29	X5B Clear Body	1
X3-35	2.5 x12.8 Pins	10	X5-30	Steering Servo Saver Alum.	1
X3-37-BK	Engine Mount L.R (Black)	1set	X5-31	Side Guard L,R	1set
X3-38	Diff Gasket 31x20x0.3	3	X5-32	Steel Spur Gear 46t	1
X3-39	4x8mm Engine Mount Screws	4	X5-33	16mm Alum. Aeration Shock Cap	2
X3-40	4x10 Round Head Set Screw	4	X5-34	Center Drive Shaft. 95mm	1

NOTES





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

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