

# DM-ONE PRO TOURING

60+  
mph



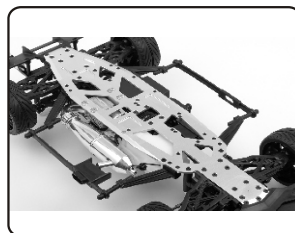
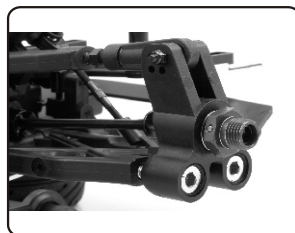
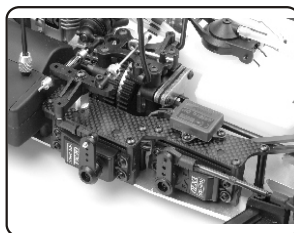
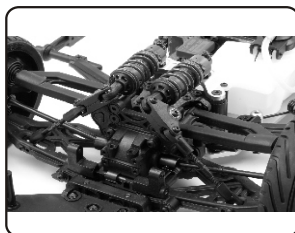
X-SIZE NITRO SEDAN

4WD  
FOUR WHEEL DRIVE

## INSTRUCTION MANUAL

### Features:

- \*High impact large front bumper and foam bumper.
- \*CNC machined steel transmission bevel gears.
- \*CNC machined aluminium front shock mount.
- \*CNC machined aluminium rear shock mount with heat sink.
- \*Low C. G. lay-down steering servo and throttle servo mount.
- \*Front and rear push rod suspension design.
- \*Threaded lay-down 13mm big bore shocks for front and rear.
- \*Adjustable ackerman steering geometry design.
- \*Graphite front plate.
- \*Graphite low centre of gravity radio tray.
- \*Front pivot ball suspension with dust boot covers.
- \*Rear pivot ball uprights for quick geometry changes.
- \*Spring steel universal joints for front and rear.
- \*Adjustable blade type sway bar for front and rear.
- \*Adjustable down-stop and up-stop suspension design.
- \*CNC machined 7075-T6 hard coated chassis brace.
- \*Quick release centre differential mount design.
- \*Convenient carry handle in the centre of the car.
- \*Changeable roll centre design for front and rear suspension.
- \*CNC machined steel brake discs.
- \*Special semi-metallic brake pads.
- \*Shoe type 2 speed transmission.
- \*CNC machined clutch bell with screw-on changeable gears.
- \*CNC machined 7075-T6 aluminium, milled out slim line chassis.
- \*Secure transponder mount.
- \*High flow air filter for maximum engine protection.
- \*Side body mounts and body protector.
- \*Rear air flow diffuser creates more down force.
- \*Exhaust deflector design to protect the inside of the body.
- \*Chrome exhaust pipe detail parts.
- \*High grip radial tires on 17mm hex wheels.
- \*Choice of different body designs.



### ADDITIONAL PARTS NEEDED

- \*Radio System
- \*.21 - .28 Engine
- \*Batteries 8 AA for Radio
- \*Receiver Batteries (10202 Hump Pack)
- \*Model Fuel 20% Nitro
- \*Paint for Lexan Bodies
- \*CA Glue

### THIS IS NOT A TOY !

This kit is extremely fast, and can easily go over 40mph and can seriously injure someone. If you are under 18 years of age have and adult supervision.

MODEL SHOWN MAY BE PROTOTYPE AND MAY VARY SLIGHTLY FROM KIT. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

BLANK

**CompetitionX**  
A WEB SITE FOR THE SERIOUS RACER

# MUST READ THIS BEFORE RUNNING

Running a nitro kit is fun and easy, but to make this a safe and good experience you must observe a few rules. This kit is extremely fast, easily over 40MPH, and can seriously injure someone if you are not careful.

## **Where to run car?**

- Any running area you choose must be dry. Do not run car near any water or wet dirt.
- Do not run on public streets. It is very easy to have the car run over or damaged by hitting the curb.
- Do not operate car in tight confined places. The car is very fast and will easily hit something.
- Do not run near people or animals. The car is very fast and will too easily hit someone.
- Due noise, you will want to consider the surrounding area when operating the car.
- Do not operate the car at night. You will not be able to drive it without hitting something.
- Do not operate the car indoors. Engine exhaust is not healthy.

## **Glow Fuel**

- Glow fuel is poisonous!
- Glow fuel is flammable!
- Do not leave in fuel bottle with lid off at any time.
- Do not use any fuel other than glow fuel in this engine.

## **First Time Starting the Engine**

Caution! When starting engine make sure the following is observed.

- Set engine Master needle to 3 turns (rich setting)
- Do not do this alone, get an experienced friend to help at first.
- Fill fuel tank, try not to spill fuel. Do not spill fuel on receiver
- Hold car off the ground, so it will not runaway when first starts
- Turn on Radio and check the linkage before starting engine.
- Turn on car receiver battery switch.
- Always have an air filter on the carburetor to keep dirt out.

## **Engine Break-in**

- See Engine Page.

## **Emergency Stopping Engine When Running**

- Remove air filter and cover carb. intake.
- Squeeze fuel line and hold until engine stops.
- With a rag, cover exhaust outlet.

## **Storing Car After Running**

- Remove fuel from tank and fuel lines
- Turn off radio in car
- Put a few drops of after run in engine to keep it from rusting.

- Clean oil and dirt from chassis with a degreaser.

## **Precautions**

- This kit is not a toy. Always run car with a second person as a spotter and pitman.
- Hot Parts - The pipe, manifold, engine and head are very hot and will cause burns.
- Rotating Parts - Keep hands away from the drive train, wheels, and engine when engine is running.
- Radio - Check batteries life before running the car. If radio does not have full control of the car with steering and/or throttle/brake do not run until corrected. Failure to correct this will result in possible injury and damage to the car or property.
- Glow fuel - Do not leave the glow fuel unattended with the Lid off. Fuel contains Methanol and Nitro Methane and is flammable and poisonous.

Store fuel in cool ventilated location. Refer the glow fuel label for additional precautions.

- Car Fuel tank - Never store fuel in car tank, it will ruin the engine if left in tank.

- Always turn off the car BEFORE turning off radio.

- DAMAGE DUE TO CAR RUN AWAY IS NOT A WARRANTY ISSUE.

**IF YOU DO NOT BREAK-IN ENGINE CORRECTLY, MAINLY AT LOW RPM, YOU WILL BREAK THE CONNECTING ROD!**

**FAILURE TO NOT READ AND FOLLOW BREAK-IN ENGINE INSTRUCTIONS WILL VOID WARRANTY!**

# REQUIRED FOR OPERATION

## THINGS NEED BESIDES THE KIT

### 3.5 cc (21 Class) ENGINE REAR EXHAUST

OFNA/Picco  
P-9R EVO  
#51219



Note: Pro kit does not include engine!



Glow Fuel  
20%



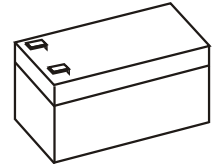
Off-Road Starter Box, 12V motor  
# 10250 - 1/8 scale Starter Box  
# 10253 - 1/8 scale Starter Box w/ Panel  
Off-Road Starter Box, two 550 motors  
# 10248 - 1/8 scale Starter Box  
# 10249 - 1/8 scale Starter Box, RTR  
Optional Parts  
# 92571 - Power Panel Glow Heater  
# 92572 - Cable for Glow Plug



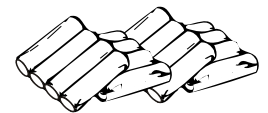
Bottle's with spout  
# 10160 - large 500cc  
# 10161 - large 500 cc Auto Stop  
# 10162 - small 250cc  
# 10164 - CNC spout 500CC  
# 10167 - CNC spout 800CC



Glow Plug Long Heat with Battery & Charger  
# 10215...\$27.95  
(please note OFNA Glow Heats available)



12V Battery for Starter Box  
(must have)



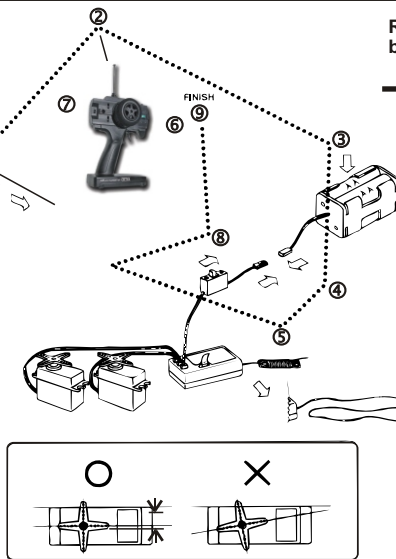
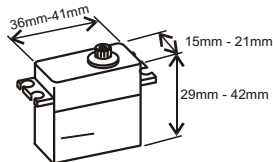
AA Batteries ( 12 pcs ) for radio

## RADIO CONTROL UNIT



Note: Carefully read the instruction manual of your 2 channel radio controller before using.

### SUITABLE SERVO SIZE



Radio must be set at neutral position before installing in the kit.

### SEQUENCE TO SET NEUTRAL

- ① Install AA batteries in Radio.
- ② Extend the antenna.(Transmitter)
- ③ Install batteries into Car receiver .
- ④ After installing the battery, connect the battery box.
- ⑤ Extend the antenna. (Receiver)
- ⑥ Set the trim-lever at center.
- ⑦ Turn on the switch. (Transmitter)
- ⑧ Turn on the switch. (Receiver)
- ⑨ Make sure the servos are in command.
- ⑩ When the operation stick is in neutral, servo horns must be in neutral as will. \*Adjustment can be made by re-installing the servo horn.
- ⑪ Turn off the switch. (Receiver)
- ⑫ Turn off the switch. (Transmitter)
- ⑬ Retract the antenna. (Transmitter)

### More Optional Parts . . .

#10202 NiHm Battery Hump Pack .. \$34.95



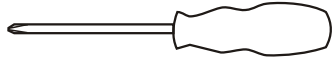
# 10214 NiHm Battery Pack Charger.. \$7.95



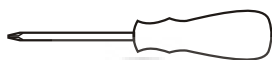
# 51007 OFNA/Picoo Glow Plug .. \$4.95



## TOOLS NOT INCLUDED IN KIT



Phillips Type Screw Drivers ( L )



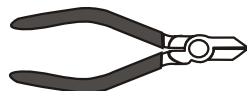
Phillips Type Screw Drivers ( S )



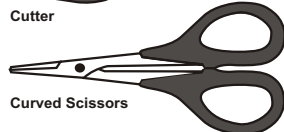
Needle Nose Pliers



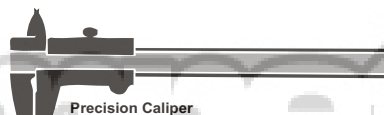
Knife



Cutter



Curved Scissors



Precision Caliper



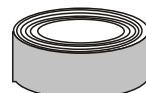
Brush



Cross Wrench



Instant Cement



Masking Tape

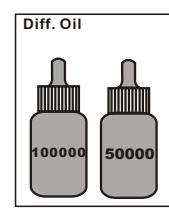


Paints

## INCLUDED WITH KIT



Shock Oil  
80WT



Diff. Oil

100000

50000



1.5mm Allen Wrench



2mm Allen Wrench



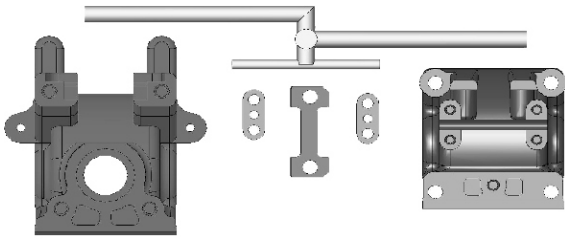
2.5mm Allen Wrench



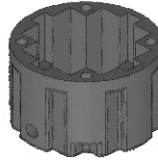
4mm\*5mm Allen Wrench

PLASTIC PARTS FOR USE

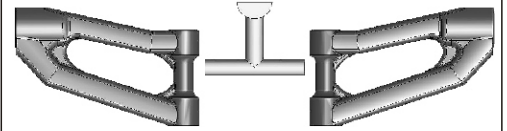
40533  
FRONT AND REAR GEAR BOX



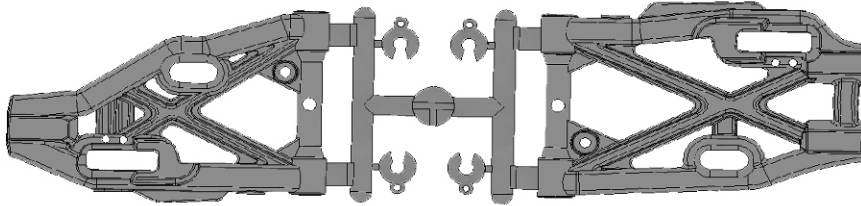
40538  
DIFF. CASE



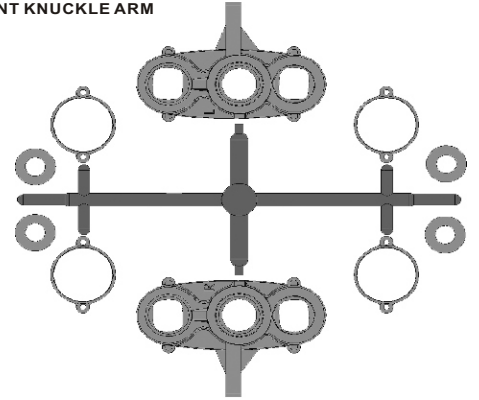
40537  
REAR UPPER ARM



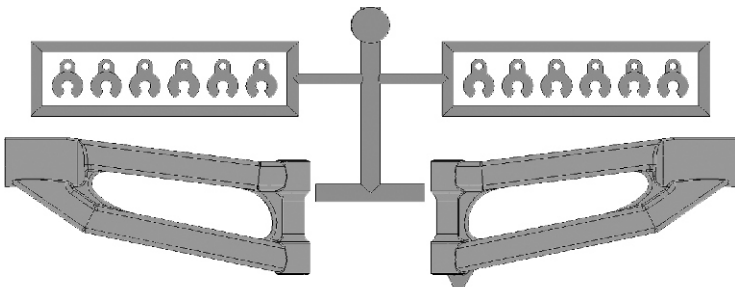
40717  
FRONT AND REAR LOWER ARM



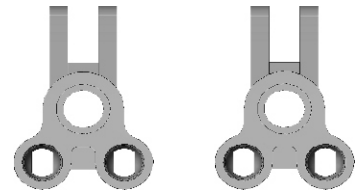
40718  
FRONT KNUCKLE ARM



40716  
FRONT UPPER ARM



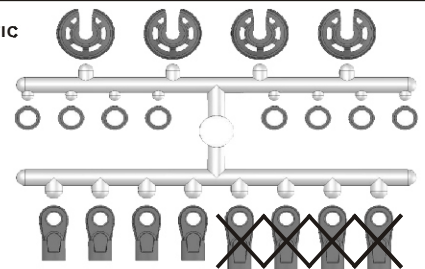
31304  
REAR UPPER RIGHT



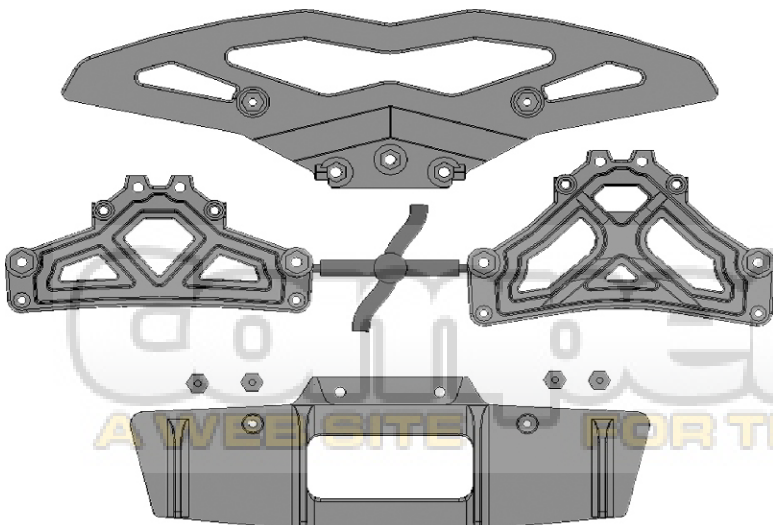
40643  
SHOCK PLASTIC



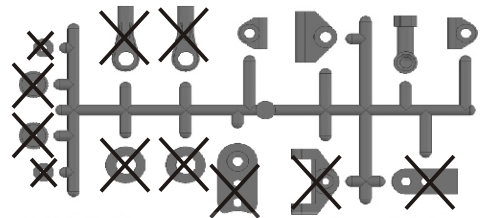
Parts For Not Use



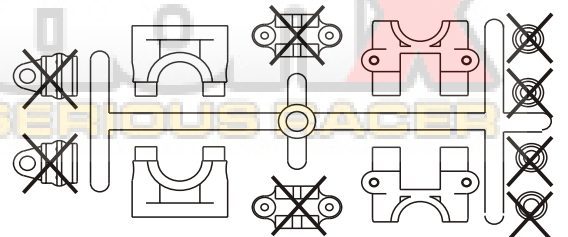
40721  
FRONT BUMPER



30800  
Throttle Linkage Plastic



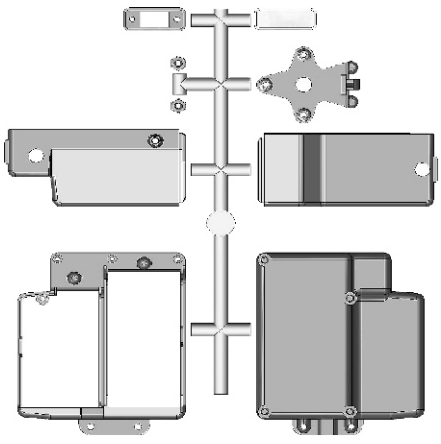
40040  
CENTER DIFF. MOUNT PLASTIC PARTS



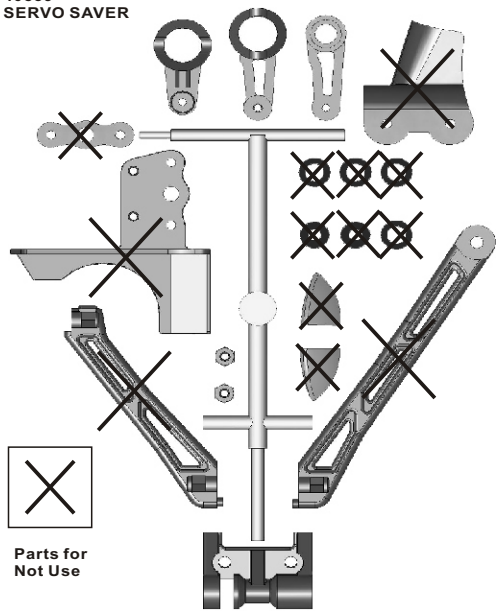
A WEBSITE FOR THE SERIOUS RACER

PLASTIC PARTS FOR USE

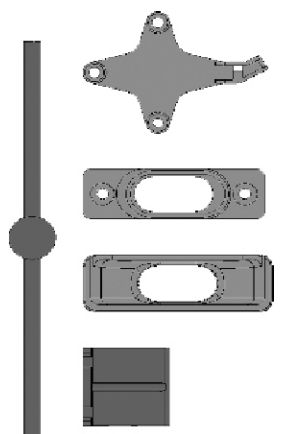
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RECEIVER BOX



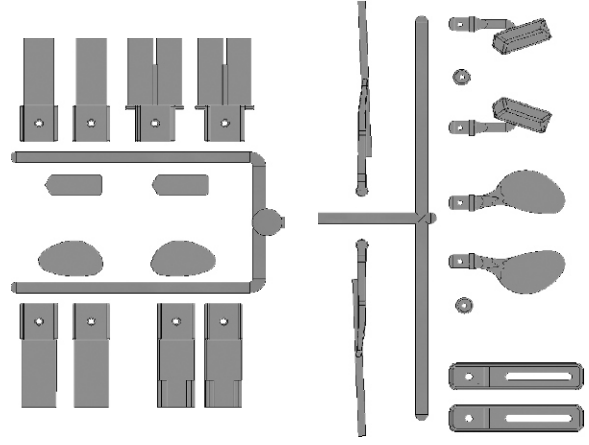
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SERVO SAVER



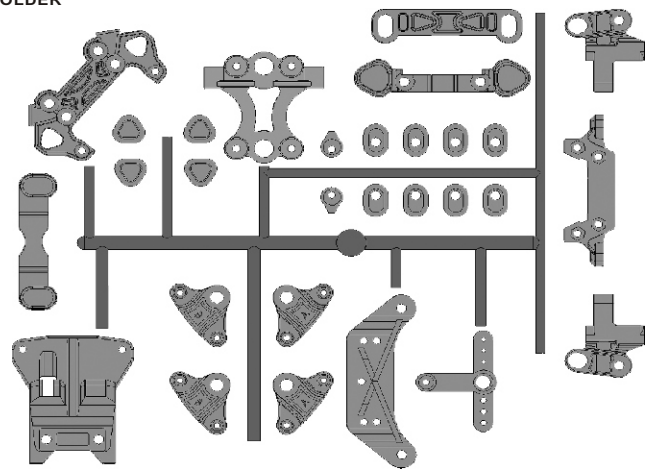
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EXHAUST GAS DEFLECTOR



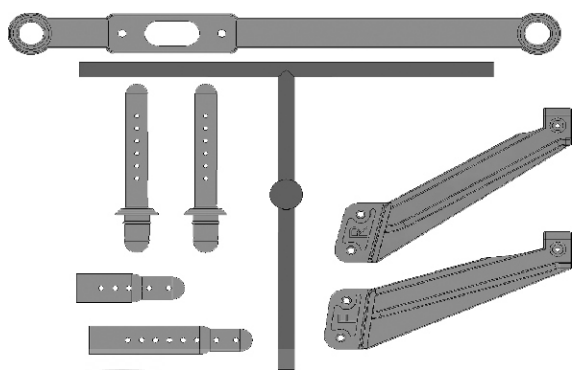
40735  
EXHAUST PIPE DETAIL PARTS  
AND BACK MIRROR



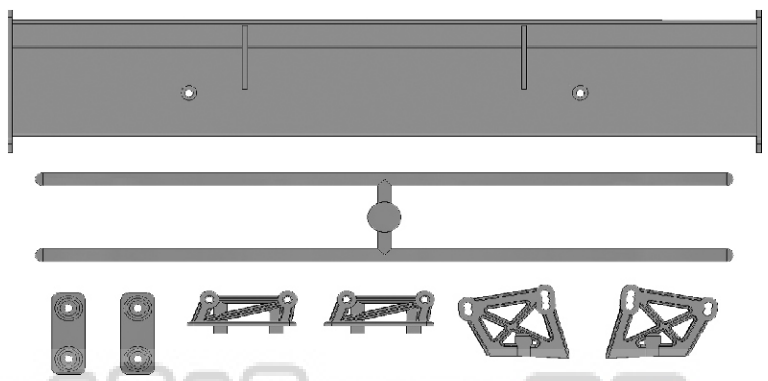
40719  
ARM HOLDER



40720  
SIDE IMPACT BUMPER AND BODY POST



40734  
REAR WING AND WING MOUNT



SYMBOL USED THROUGHOUT THE INSTRUCTION MANUAL



Parts Bag Used



Degrease With Motor Spray



Do Not Over Tighten



Tighten



Ensure Free Movement



Contact Adhesive



Apply Screw Cement



Apply Oil



Apply Grease



True-To-Scale



Clockwise Rotation



Anti-clockwise Rotation

# 1 ASSEMBLY OF THE FRONT AND REAR SHOCKS

**NO.1**

Make 4 shocks for Front and Rear.

**Step 1**

40640 Pressure Top (Orange)  
40633 Shock Cap

**Step 2**

40090 3.5mm O-Ring .....x8  
40090 1mm Washer .....x4  
40090 2mm Washer .....x4  
40090 7mm R-Ring .....x4

40090 7mm R-ring  
40090 2mm Washer  
40090 3.5mm O Ring  
40090 1mm Washer  
40090 3.5mm O Ring

40634 Spring Adjuster

40737 Shock Body

Oil

Oil

Fit the o-ring into groove before assembly.  
40636 15x1mm O-Ring

Rotate Direction

Oil

# 2 ASSEMBLY OF THE SHOCK SHAFT

**NO.1**  
**NO.12**

40060 2.5mm Nylon Nut .....x4  
30403 6mm Ball .....x4  
2.6x5mm Washer .....x8

40637 Dust Felt  
40635 Shock Shaft Dust Covers  
40638 Shock Piston  
40060 2.5mm Nylon Nut  
2.6x5mm Washer

30403 6mm Ball  
40643 Shock Plastic Ball End (Short)  
40736 Shock Shaft

1. Pull down piston and pour oil into shock cylinder to approx 90%.  
2. To remove air bubbles by slowly moving piston up and down.

Fill the shocks with oil.

Do Not Over Tighten

Do not over tighten the 2.5 mm nylon nut.

UP  
DOWN  
Move slowly.

\*Be careful not to damage shock shaft.

# 3 ASSEMBLY OF THE SHOCK CAP AND SPRING

**NO.1**

**Step 1**

Tighten

1. Pull down piston, attach pressure top and shock oil overflow with tissue paper.

\*Total length for 84mm.

84mm

**Step 2**

40738 Shock Spring (Red)  
40643 Shock Spring Holder

0 10 20 30 40 50 60 70 80 90 mm

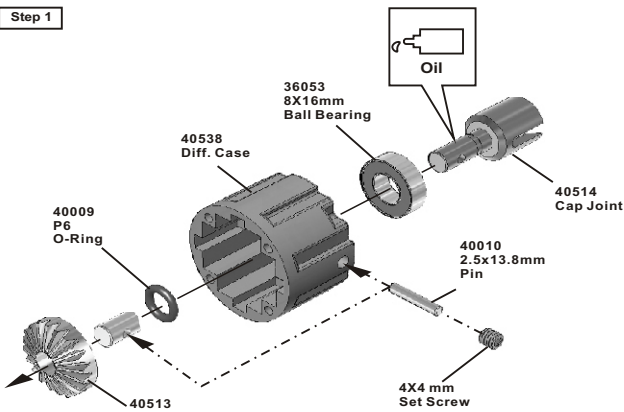
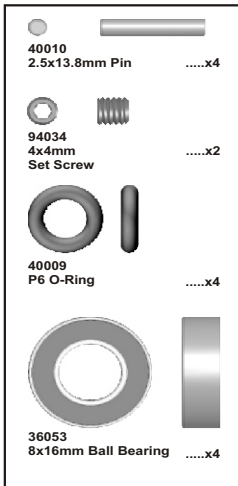
#### 4 ASSEMBLY OF THE FRONT AND REAR DIFF.

Builds two differentials for front and rear.

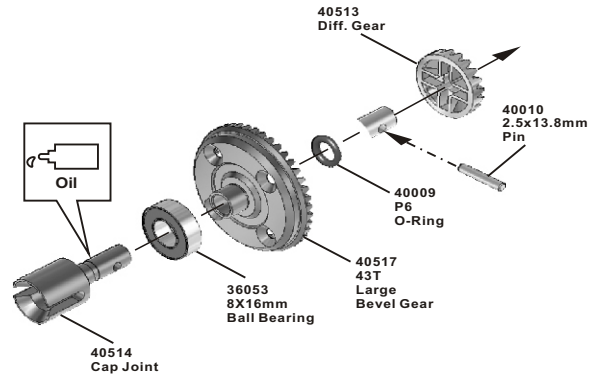


NO.2

Step 1



Step 2



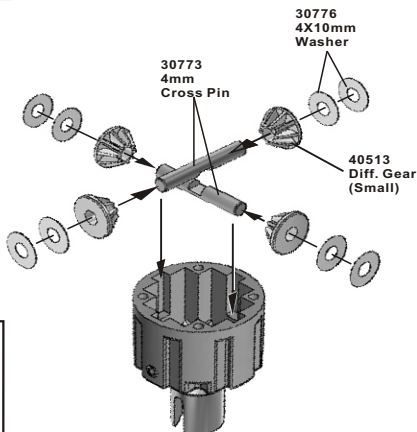
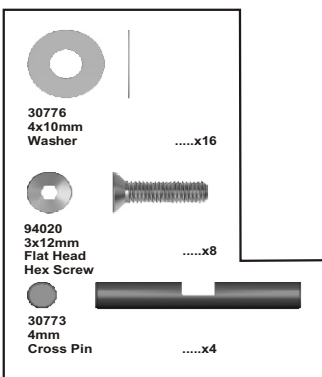
#### 5 ASSEMBLY OF THE FRONT AND REAR DIFF.

Builds two differentials for front and rear.



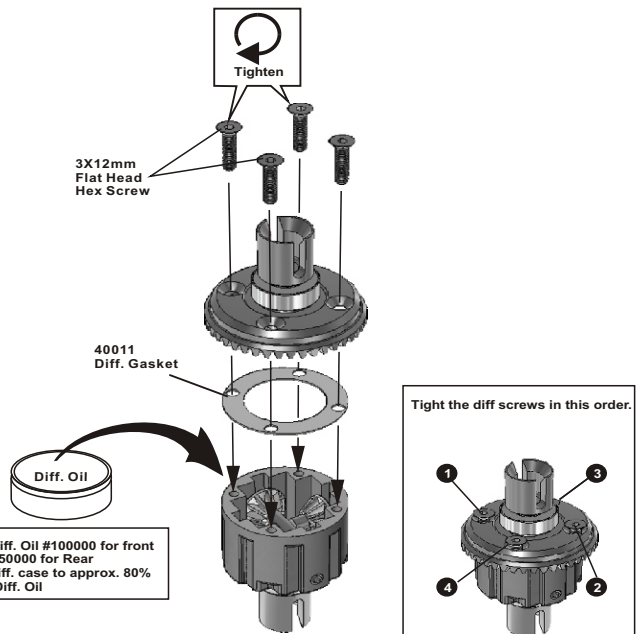
NO.1  
NO.12

Step 1

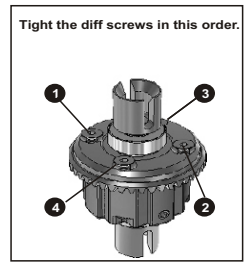


NB. It is very important to remove the 30776 washer if the gear mesh is too tight.

Step 2



\*Put the Diff. Oil #100000 for front and the #50000 for Rear  
\*Fill the Diff. case to approx. 80% with the Diff. Oil



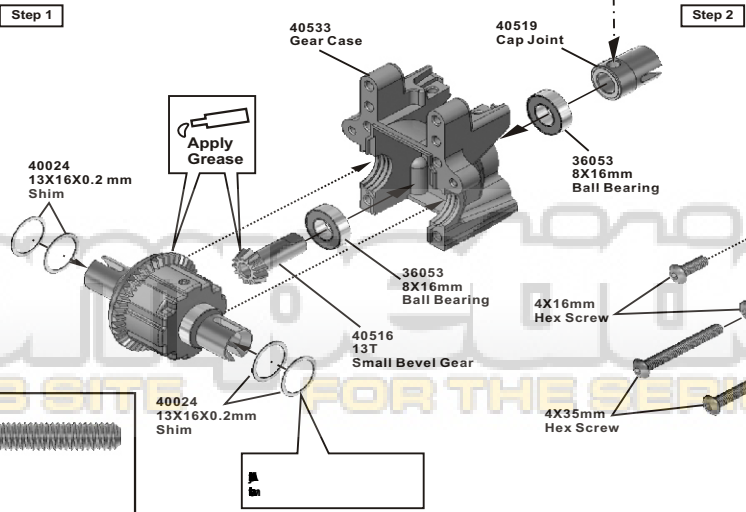
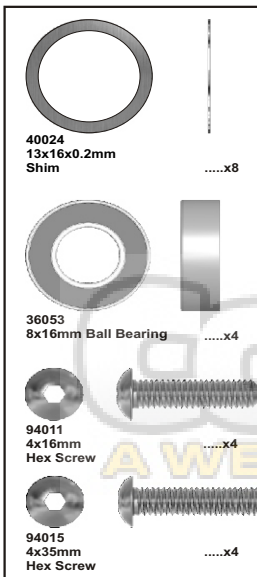
#### 6 ASSEMBLY OF THE FRONT AND REAR GEAR CASE

Builds two gear case for front and rear.

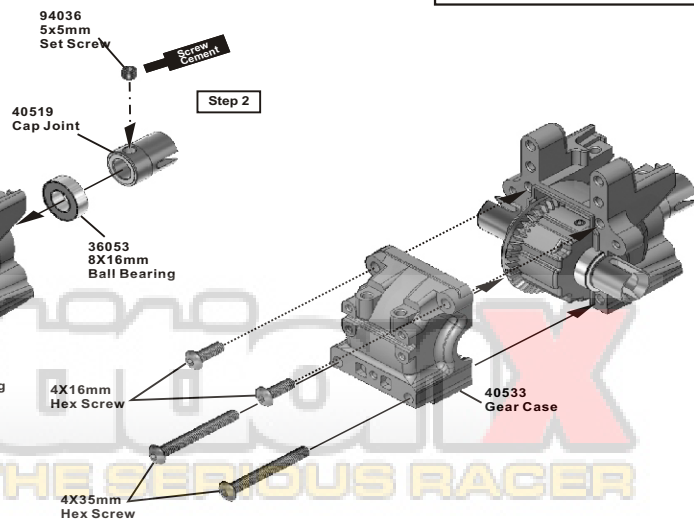


NO.2  
NO.4  
NO.5

Step 1



Step 2



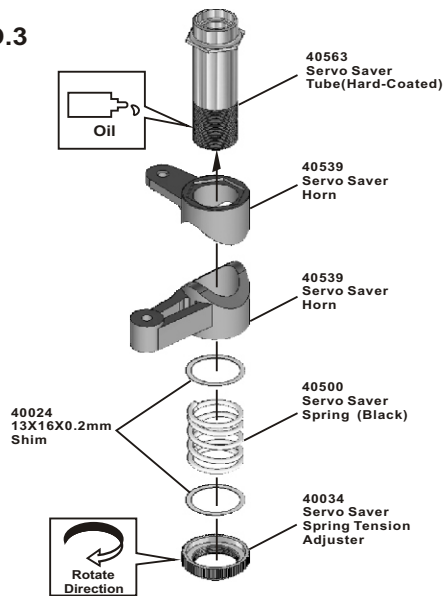
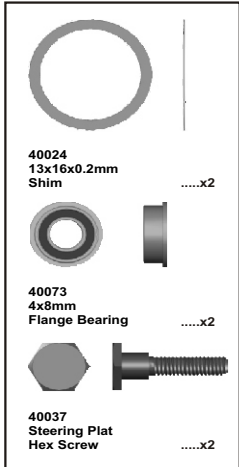


## 7 ASSEMBLY OF THE SERVO SAVER

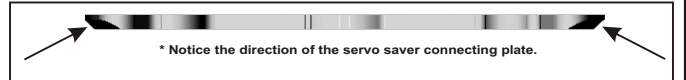
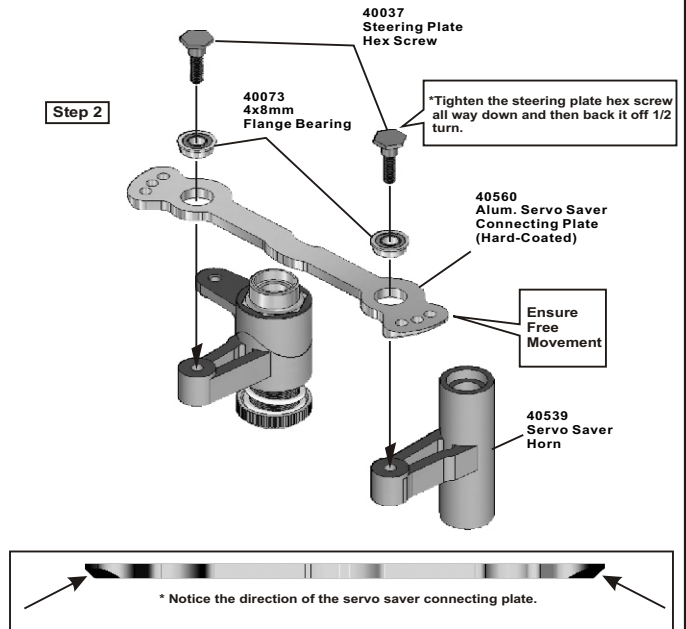


NO.3

Step 1



Step 2

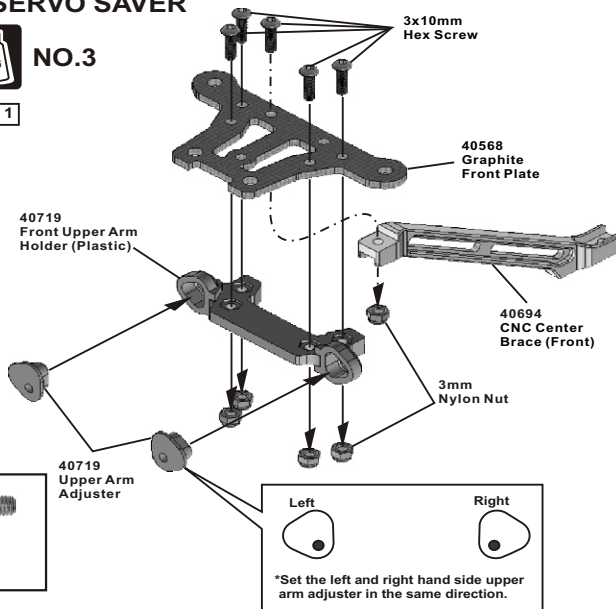
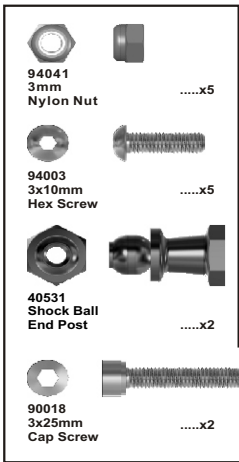


## 8 ASSEMBLY OF THE SERVO SAVER



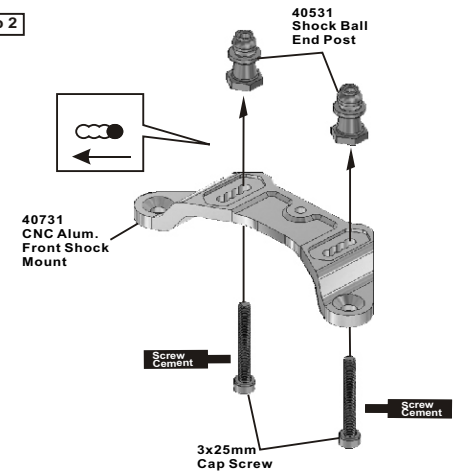
NO.3

Step 1



Assembly of the right and left hand side are the same.

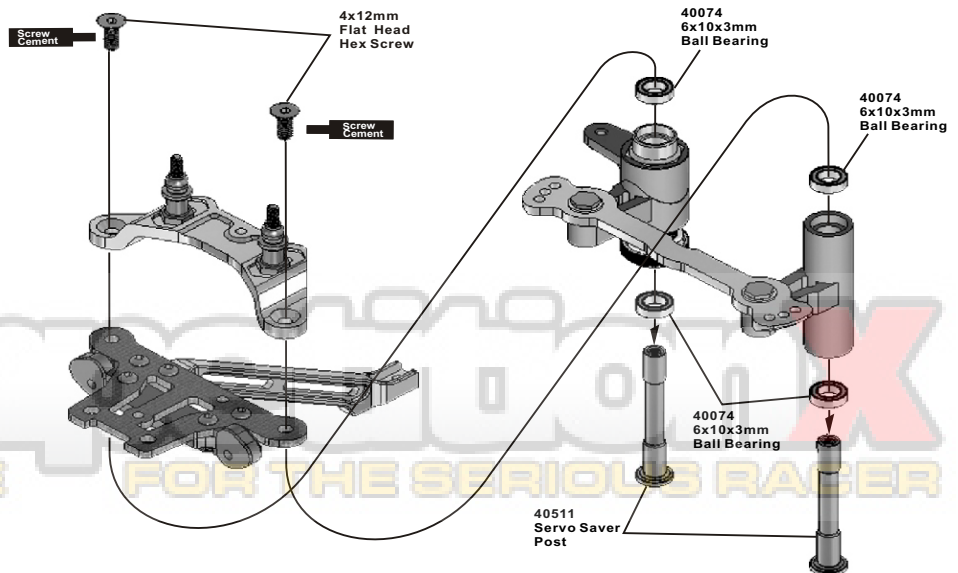
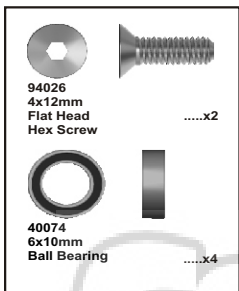
Step 2



## 9 ASSEMBLY OF THE SERVO SAVER



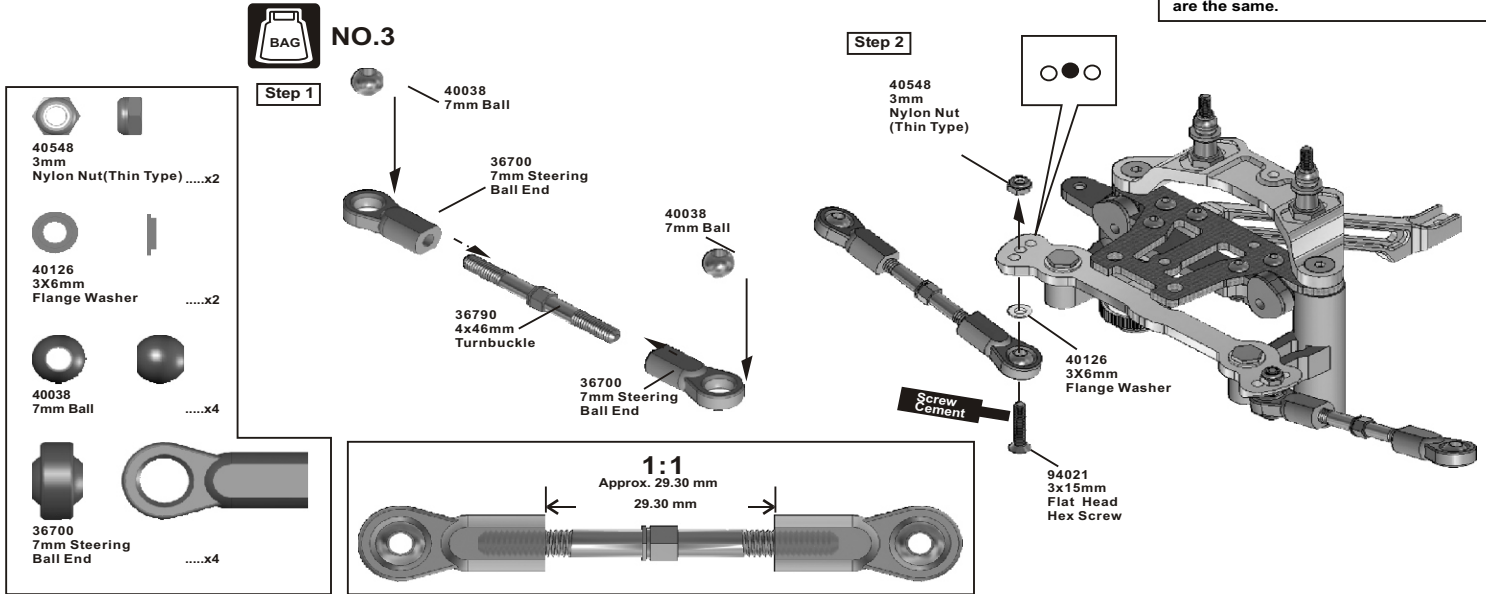
NO.3



FOR THE SERIOUS RACER

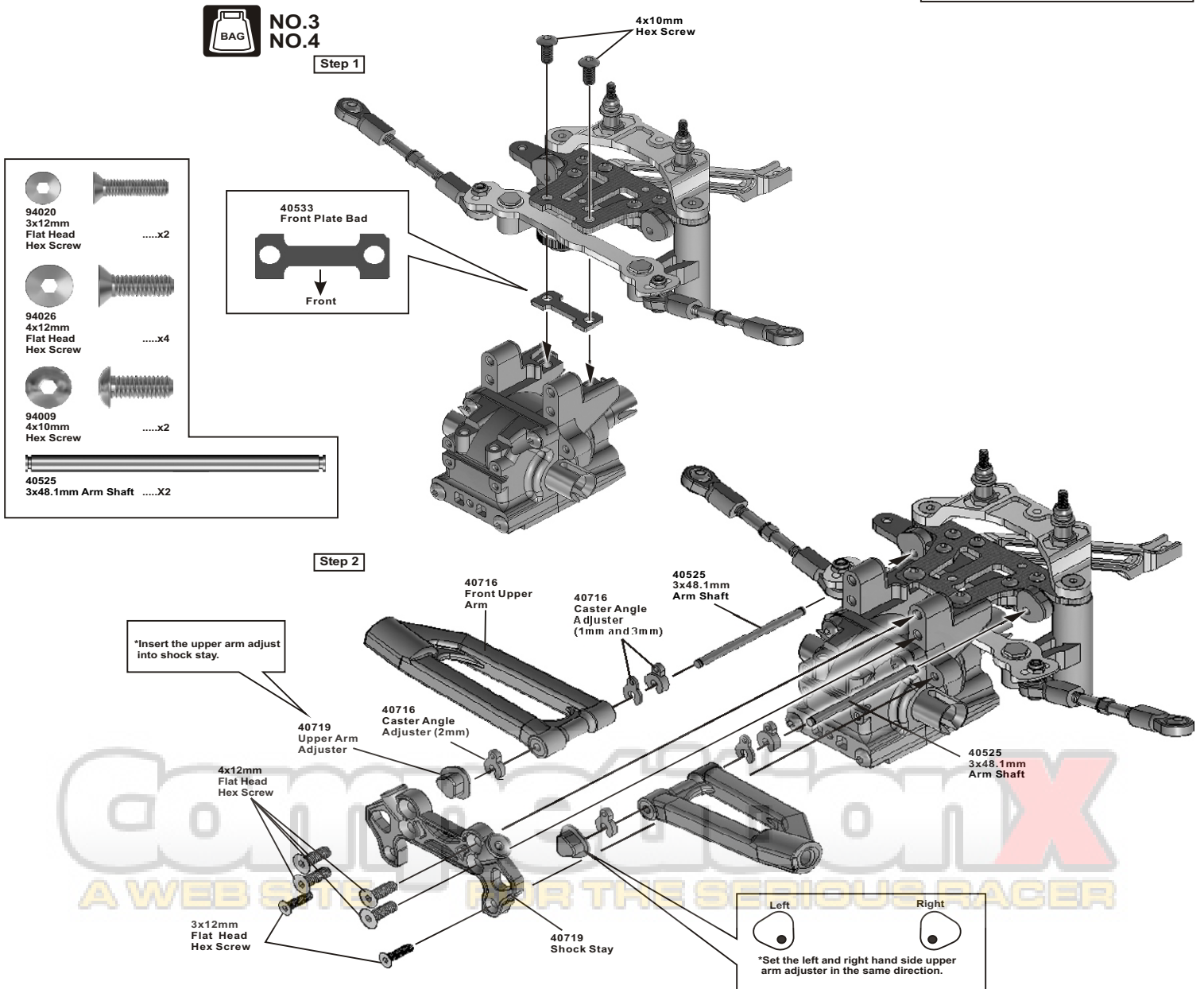
## 10 ASSEMBLY OF THE STEERING TIE-ROD

Assembly of the right and left hand side are the same.



## 11 ASSEMBLY OF THE SERVO SAVER AND FRONT UPPER ARMS

Assembly of the right and left hand side are the same.

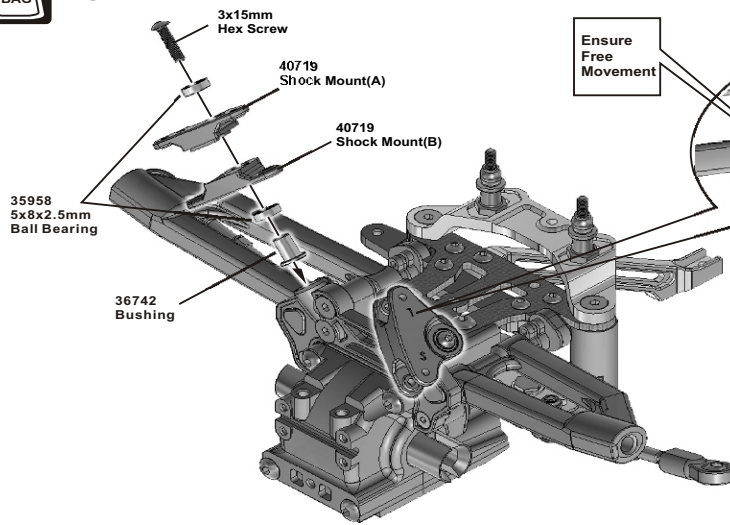
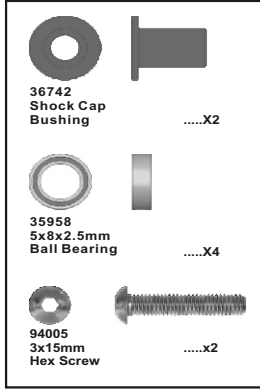


## 12 ASSEMBLY OF THE FRONT SHOCK STAY

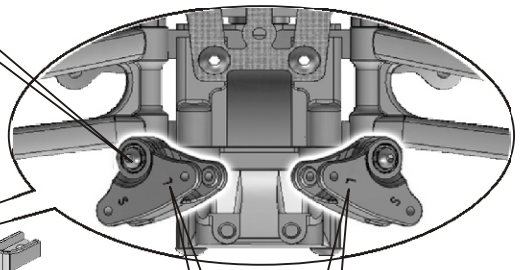
Assembly of the right and left hand side are the same.



NO.4



Ensure Free Movement



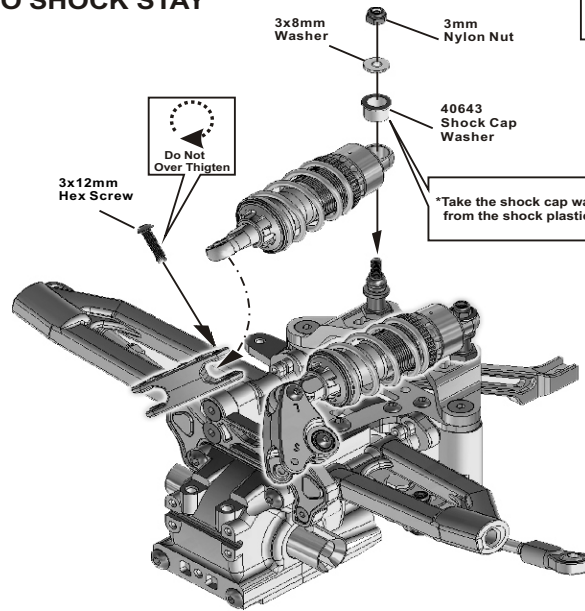
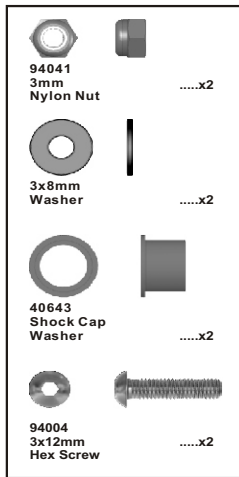
\*"L"make are for inside.

## 13 ASSEMBLY OF THE FRONT SHOCKS ONTO SHOCK STAY

Assembly of the right and left hand side are the same.



NO.1



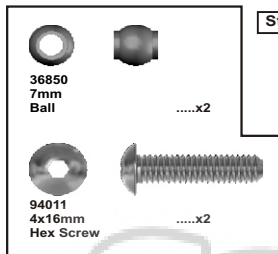
\*Take the shock cap washer from the shock plastic tree.

## 14 ASSEMBLY OF THE REAR UPPER ARMS

Assembly of the right and left hand side are the same.

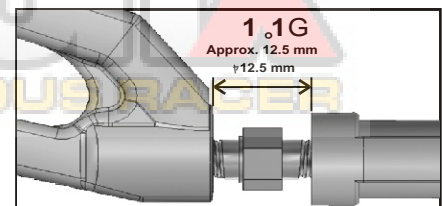
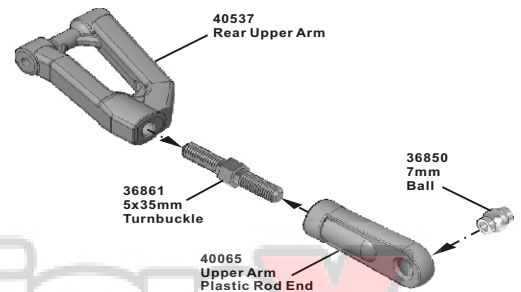
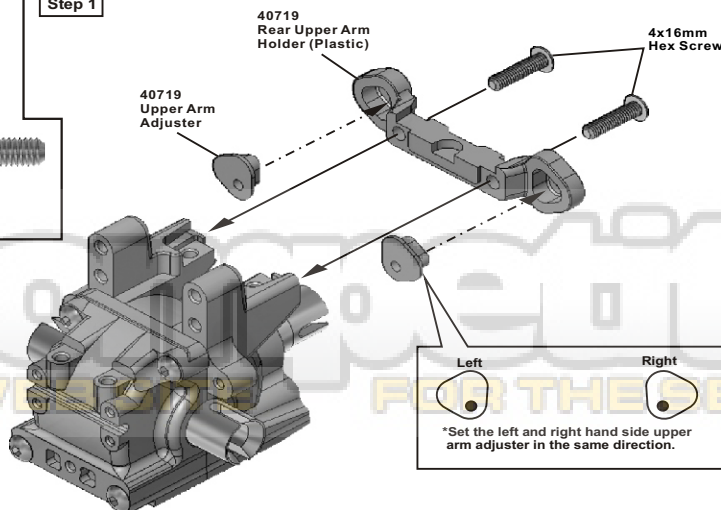


NO.5



Step 1

Step 2

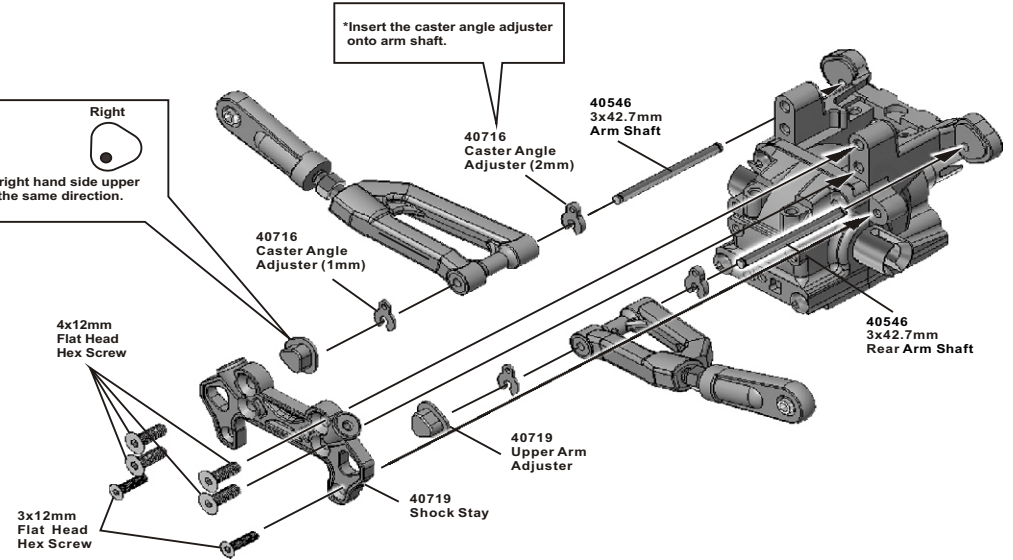
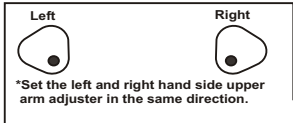


# 15 ASSEMBLY OF THE REAR UPPER ARMS

Assembly of the right and left hand side are the same.

**BAG NO.5**

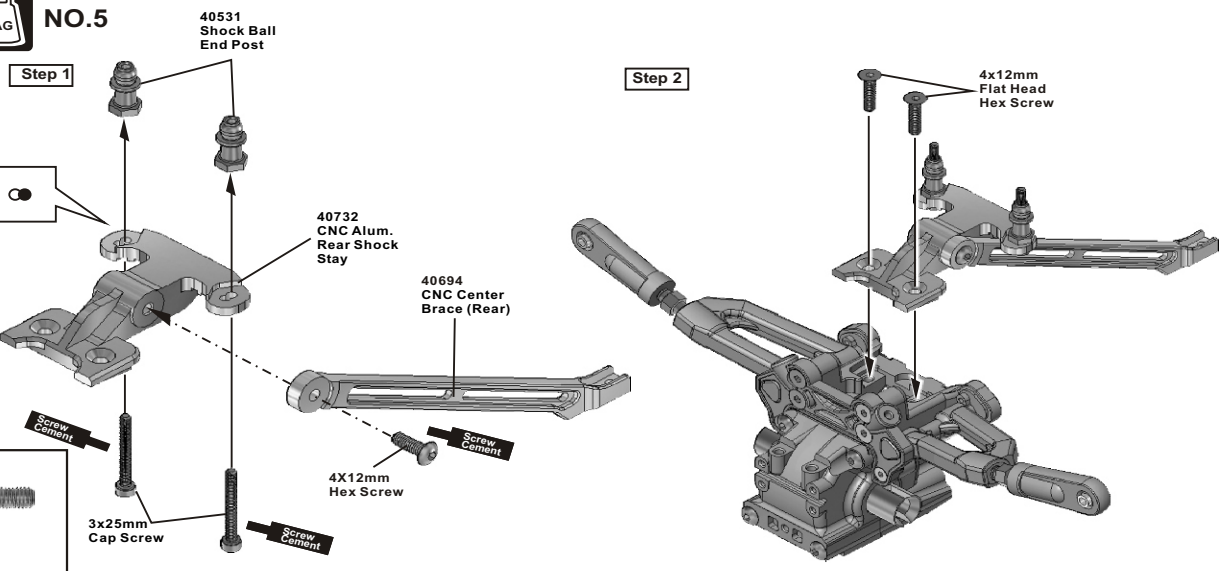
- 94020 3x12mm Flat Head Hex Screw .....x2
- 94026 4x12mm Flat Head Hex Screw .....x4
- 40546 3x42.7mm Arm Shaft .....x2



# 16 ASSEMBLY OF THE REAR SHOCK MOUNT

**BAG NO.5**

- 40531 Shock Ball End Post .....x2
- 94026 4x12mm Flat Head Hex Screw .....x2
- 94010 4x12mm Hex Screw .....x1
- 90018 3x25mm Cap Screw .....x2

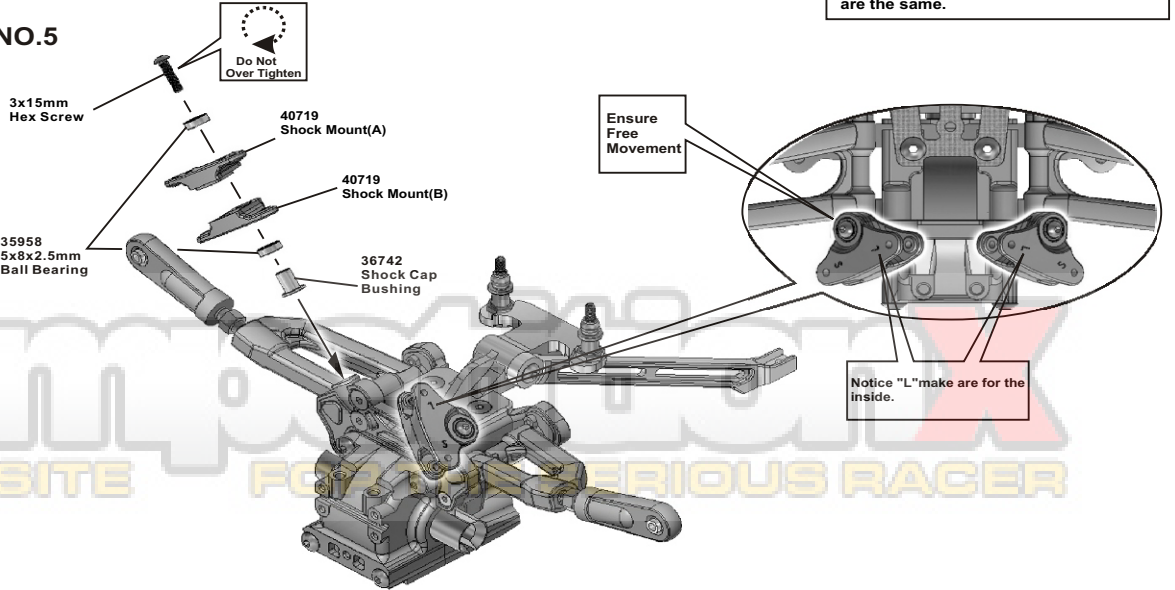


# 17 ASSEMBLY OF THE REAR SHOCK STAY

Assembly of the right and left hand side are the same.

**BAG NO.5**

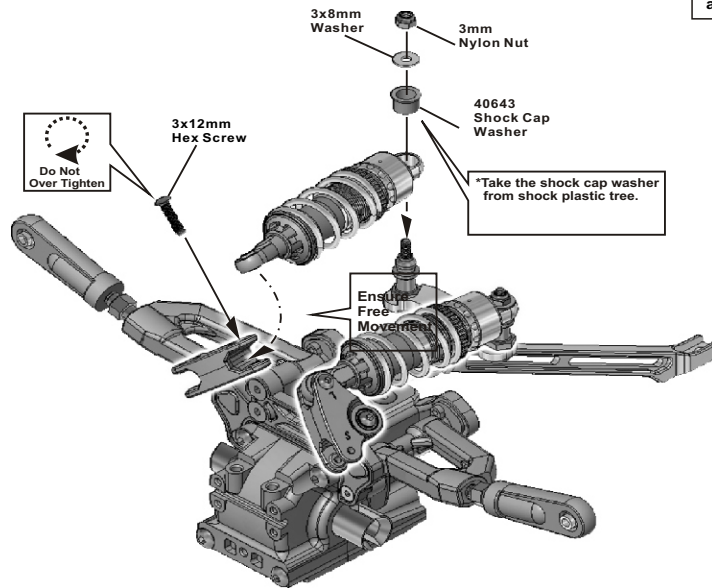
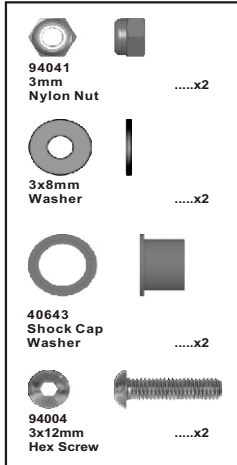
- 36742 Shock Cap Bushing .....x2
- 35958 5x8x2.5mm Ball Bearing .....x4
- 94011 3x16mm Hex Screw .....x2



## 18 ASSEMBLY OF THE REAR SHOCK ONTO SHOCK STAY

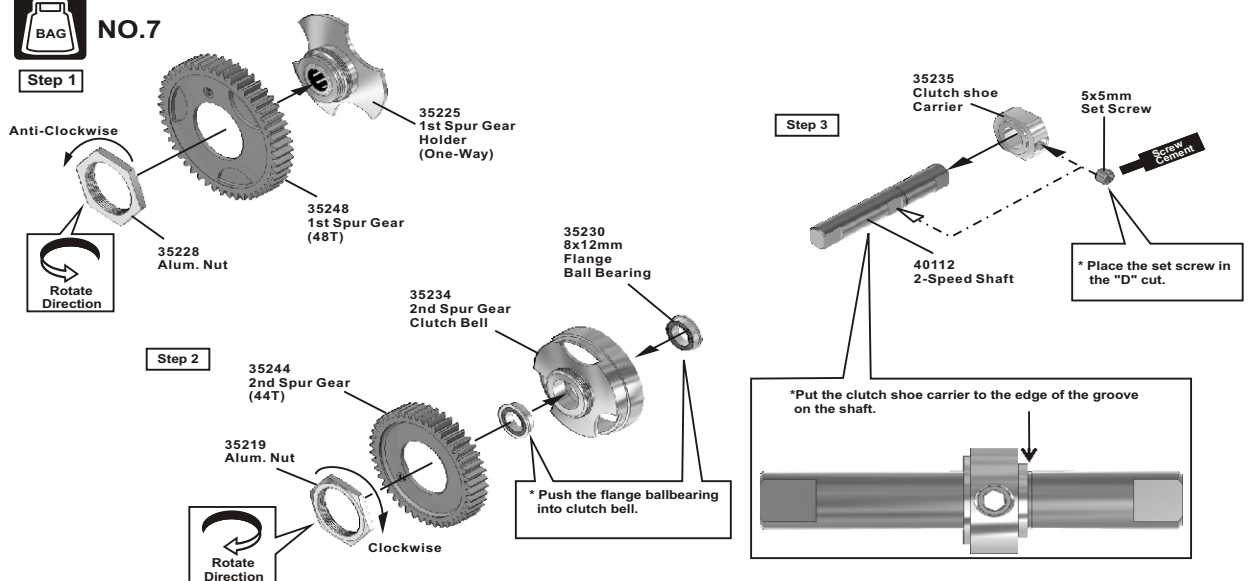
Assembly of the right and left hand side are the same.

**BAG** NO.1



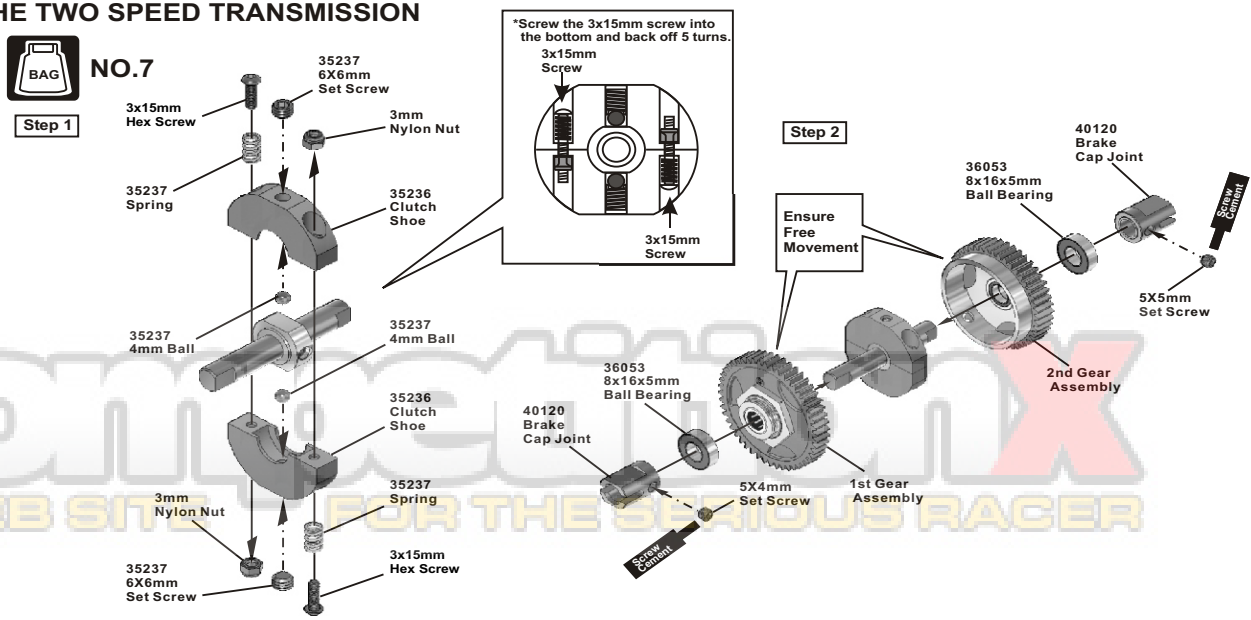
## 19 ASSEMBLY OF THE TWO SPEED GEARS

**BAG** NO.7

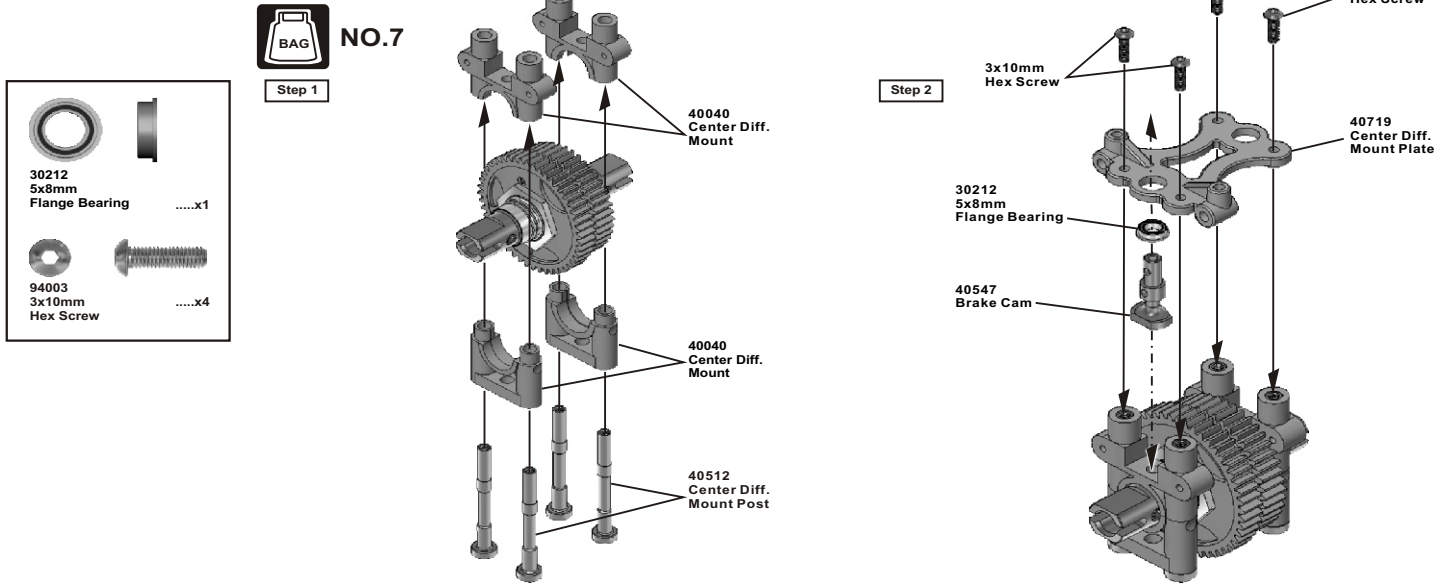


## 20 ASSEMBLY OF THE TWO SPEED TRANSMISSION

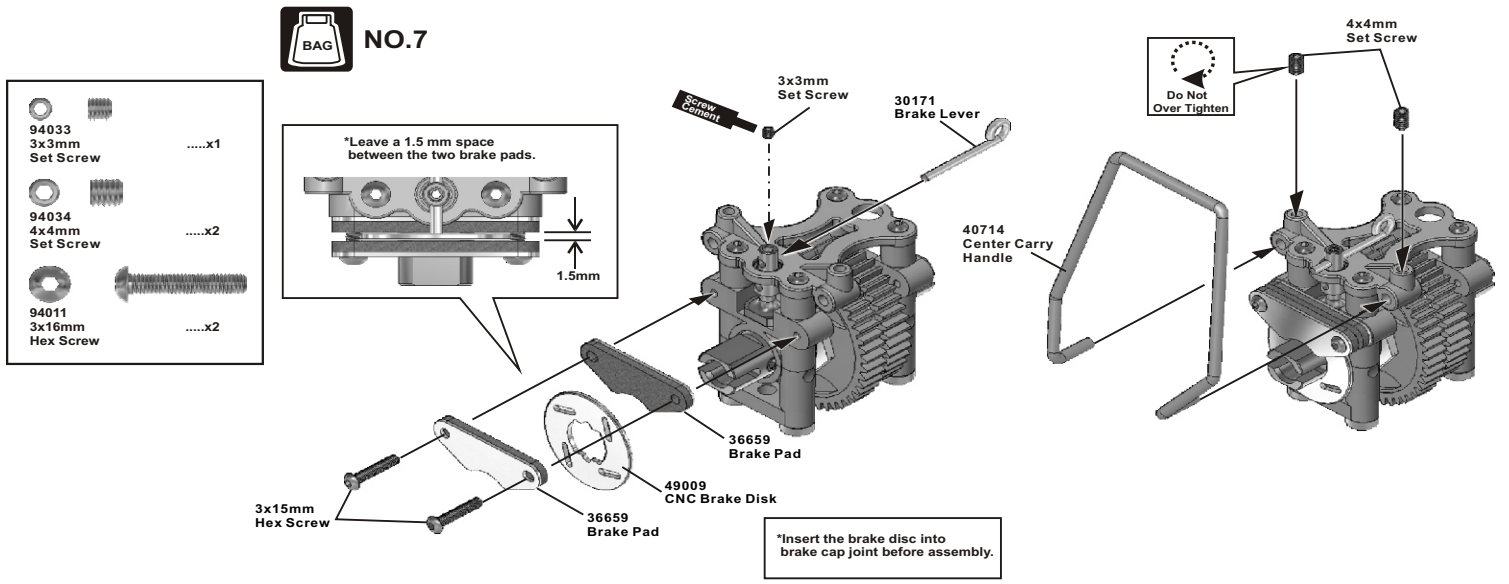
**BAG** NO.7



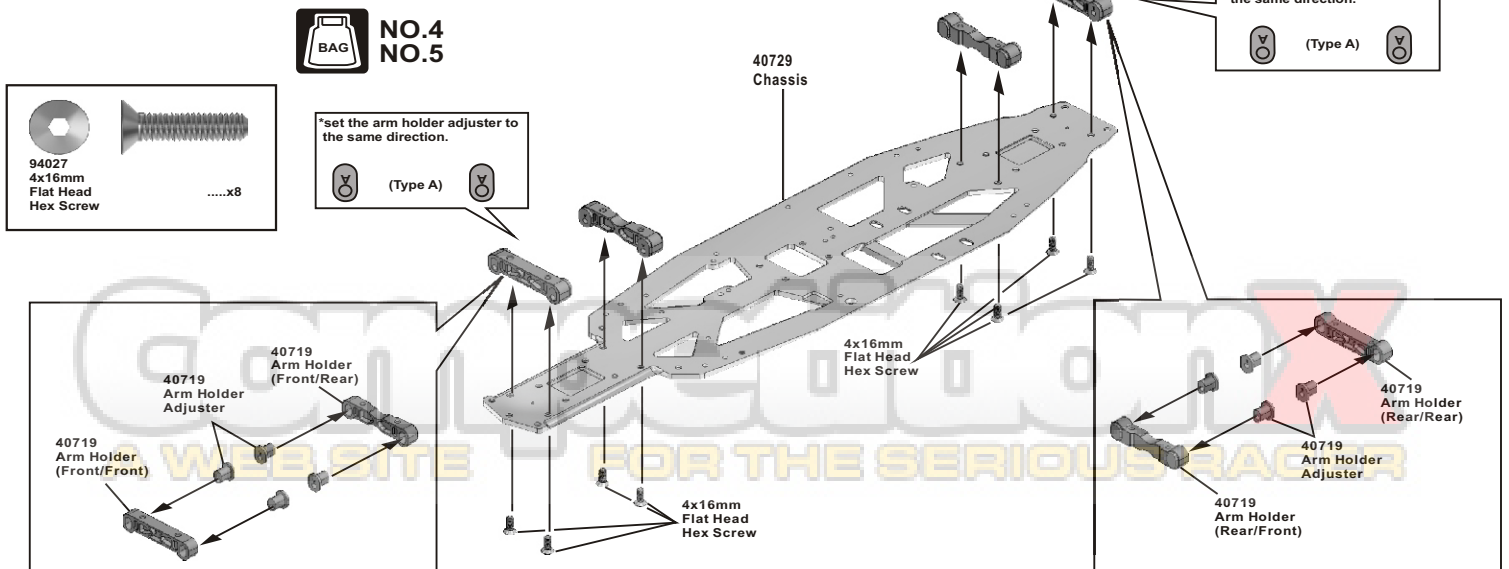
## 21 ASSEMBLY OF THE TWO SPEED TRANSMISSION INTO THE CENTER MOUNT



## 22 ASSEMBLY OF THE BRAKE AND CENTER DIFF. MOUNT



## 23 ASSEMBLY OF THE ARM HOLDER ONTO CHASSIS

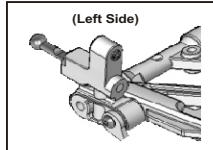
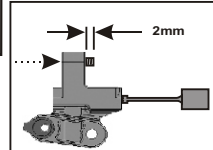
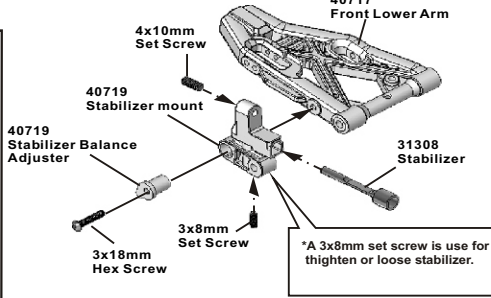
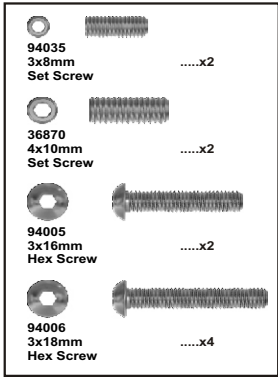


## 24 ASSEMBLY OF THE FRONT LOWER ARMS



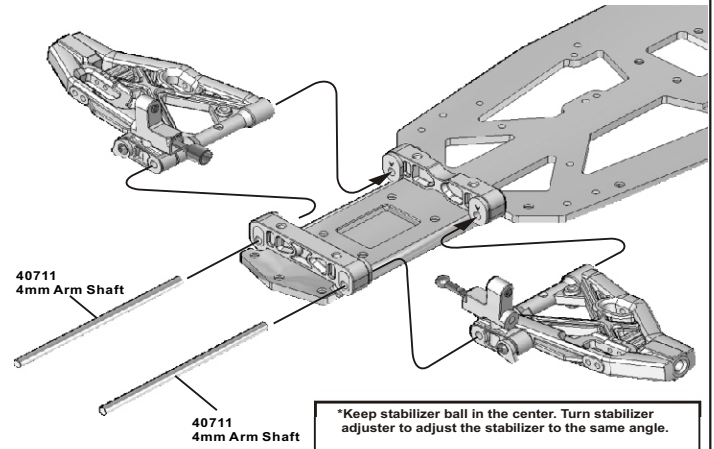
NO.6

Step 1

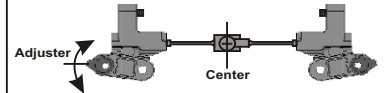


Step 2

Assembly of the right and left hand side are the same.



\*Keep stabilizer ball in the center. Turn stabilizer adjuster to adjust the stabilizer to the same angle.

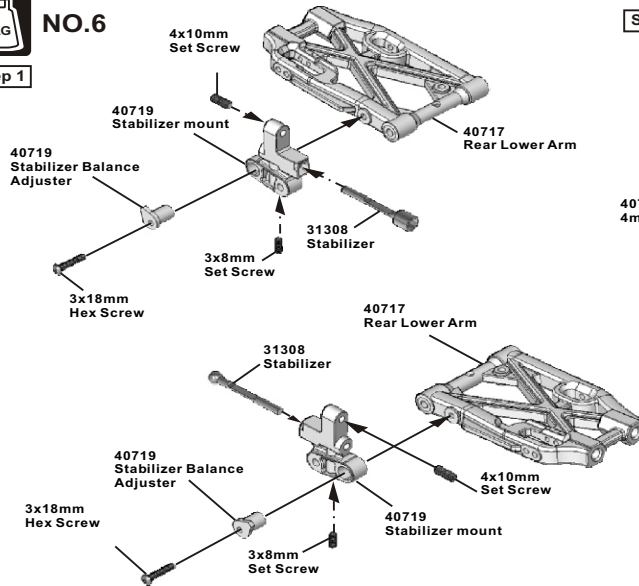
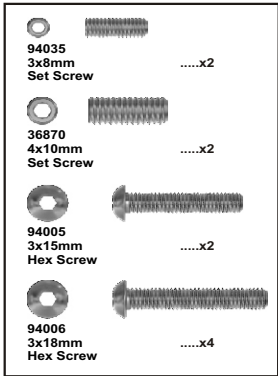


## 25 ASSEMBLY OF THE REAR LOWER ARMS



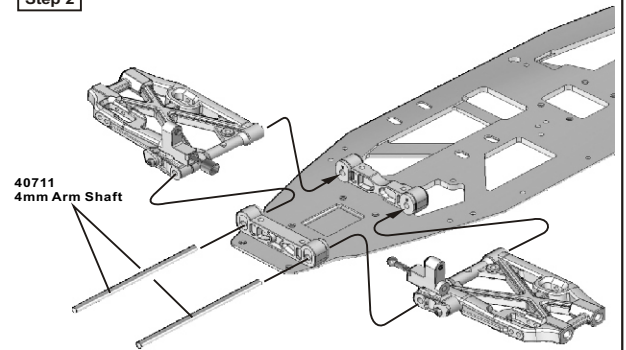
NO.6

Step 1

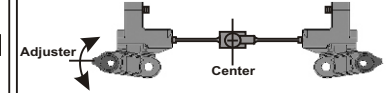
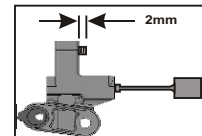


Step 2

Assembly of the right and left hand side are the same.



\*Keep stabilizer ball in the center. Turn stabilizer adjuster to adjust the stabilizer to the same angle.

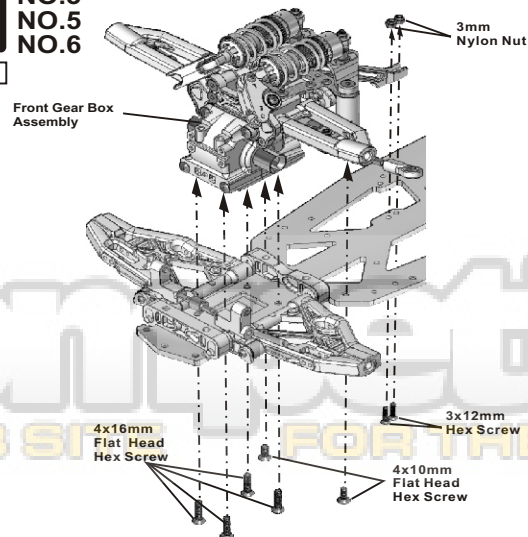
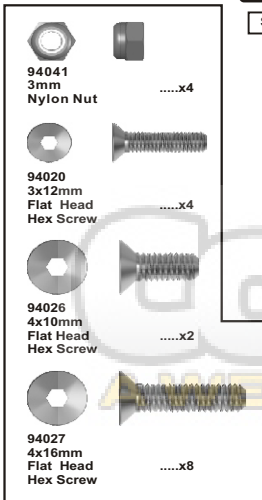


## 26 ASSEMBLY OF THE FRONT AND REAR GEAR BOX ONTO THE CHASSIS

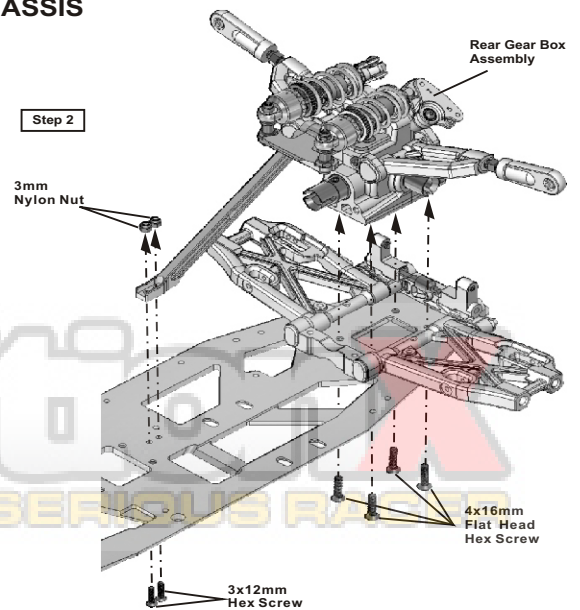


NO.3  
NO.5  
NO.6

Step 1



Step 2

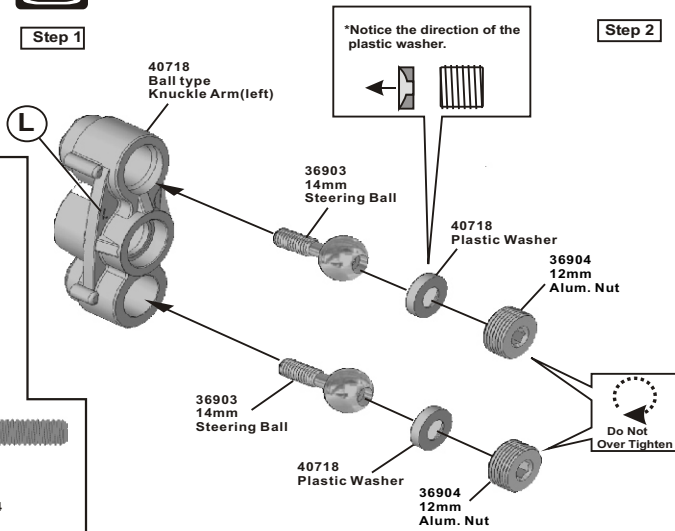
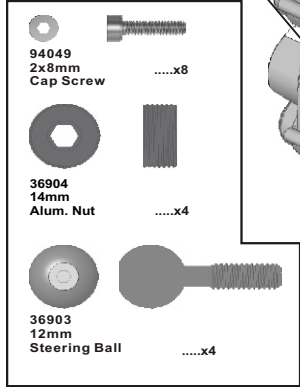


## 27 ASSEMBLY OF THE FRONT KNUCKLE ARMS

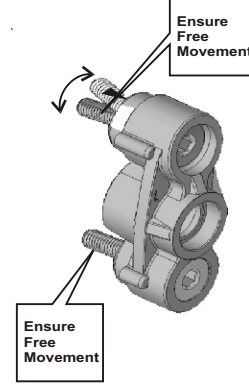
Assembly of the right and left hand side are the same.

**BAG** NO.6

Step 1



Step 2

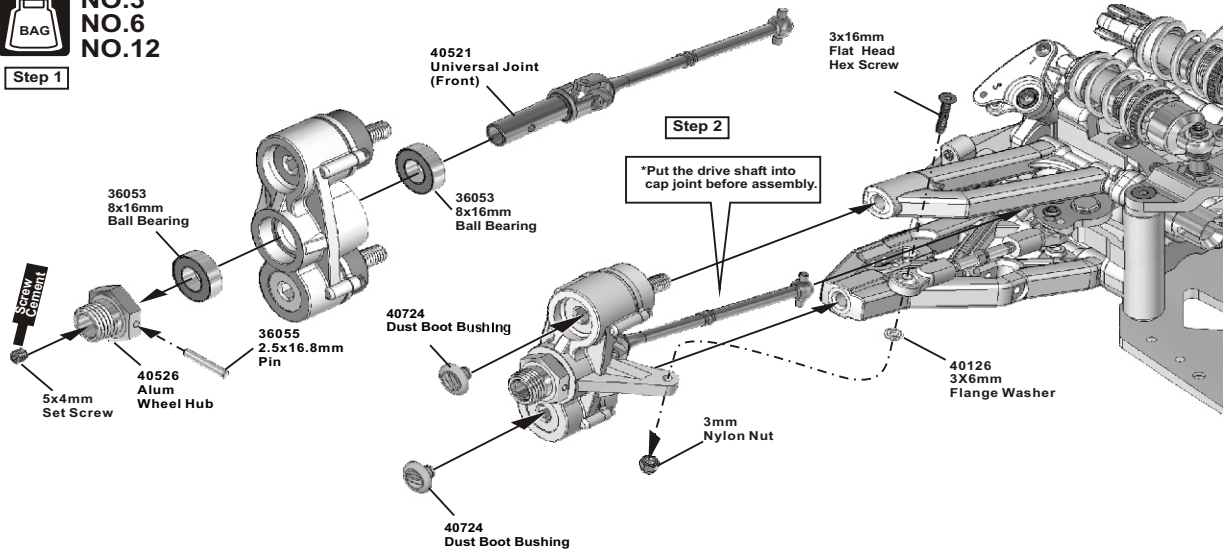
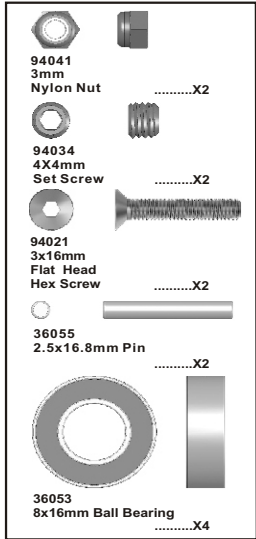


## 28 ASSEMBLY OF THE FRONT KNUCKLE AND FRONT SUSPENSION ARMS

Assembly of the right and left hand side are the same.

**BAG** NO.3  
 NO.6  
 NO.12

Step 1



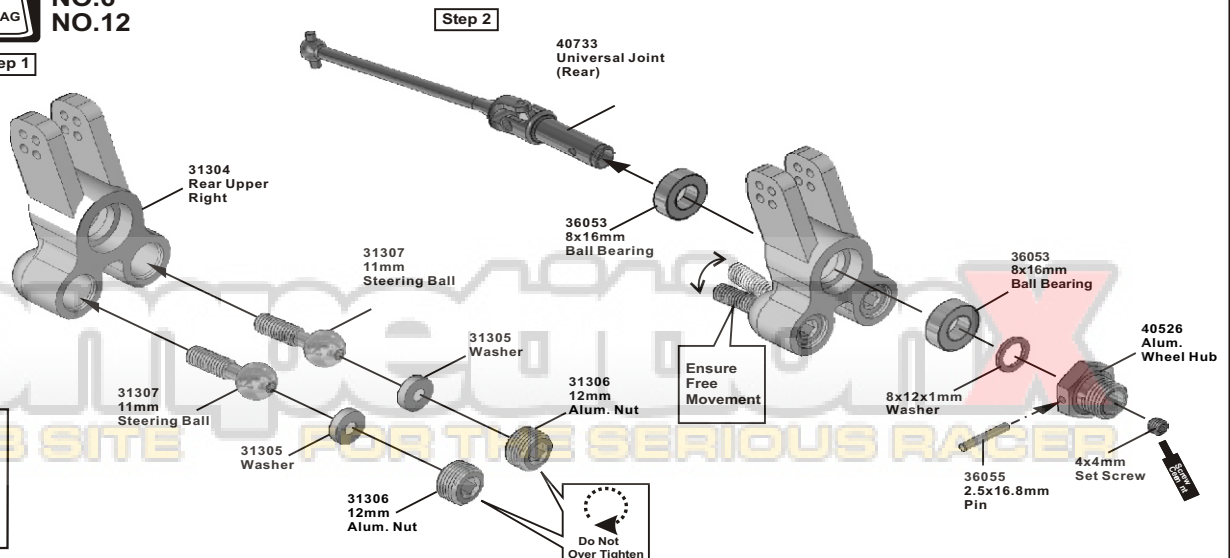
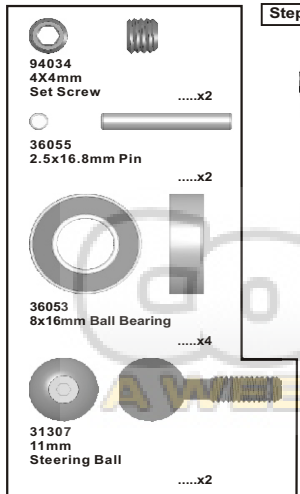
Step 2

## 29 ASSEMBLY OF THE REAR WHEEL HUB

Assembly of the right and left hand side are the same.

**BAG** NO.6  
 NO.12

Step 1



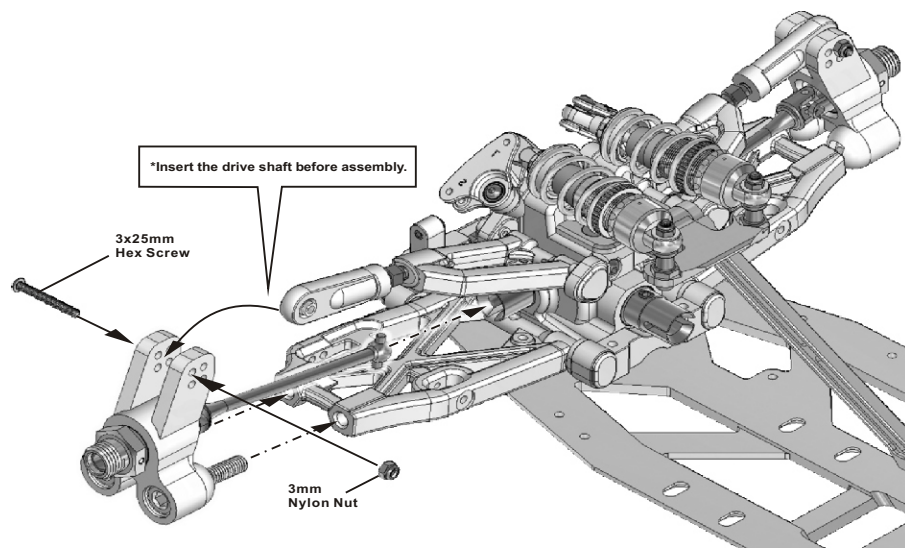
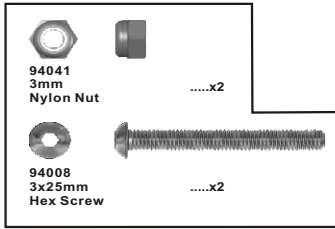
Step 2



### 30 ASSEMBLY OF THE REAR SUSPENSION ARMS

Assembly of the right and left hand side are the same.

**BAG** NO.6

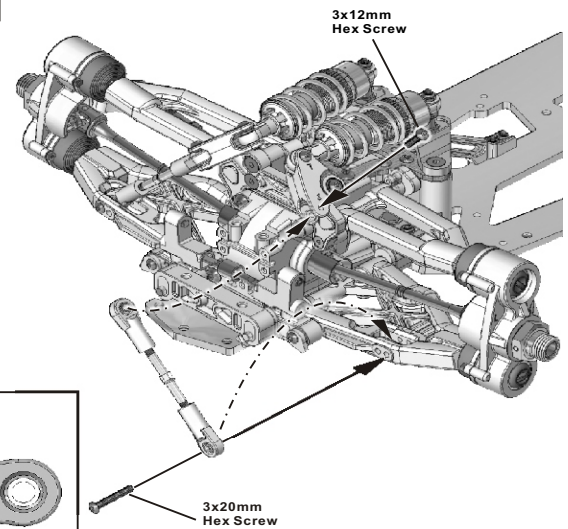
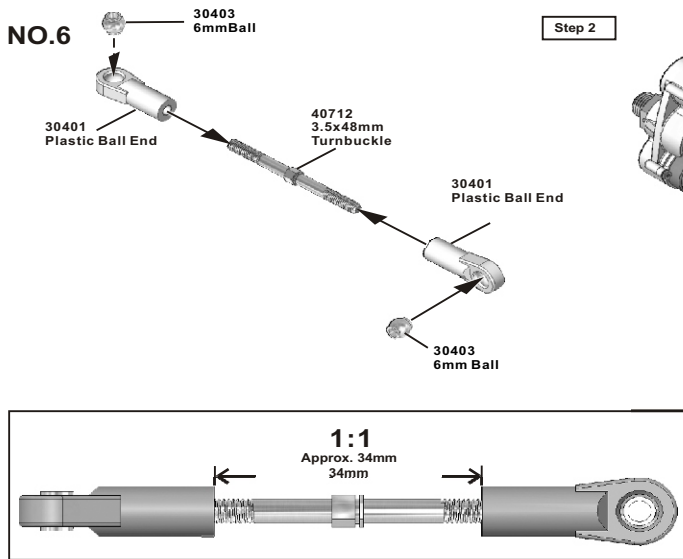
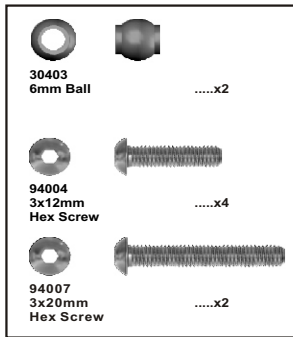


### 31 ASSEMBLY OF THE FRONT PUSH RODS

Assembly of the right and left hand side are the same.

**BAG** NO.6

Step 1

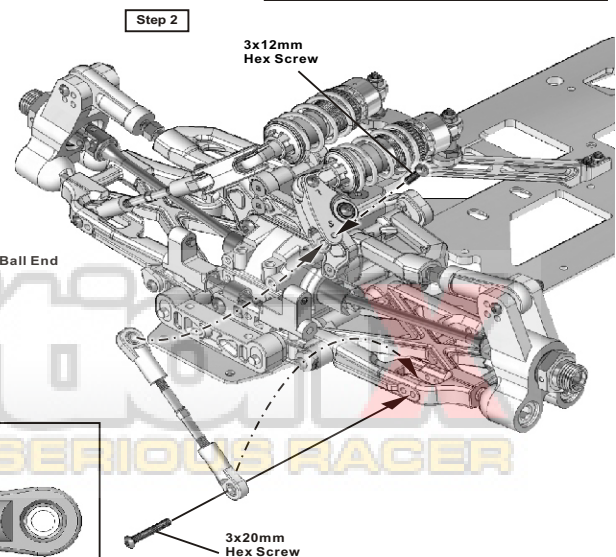
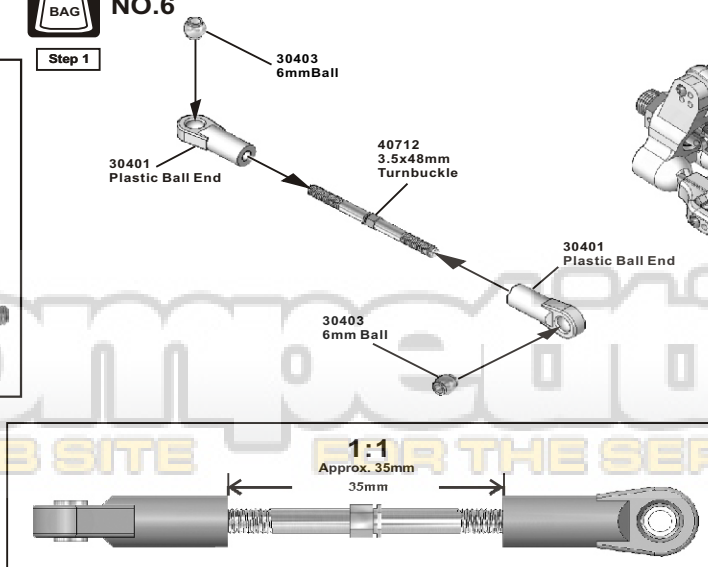
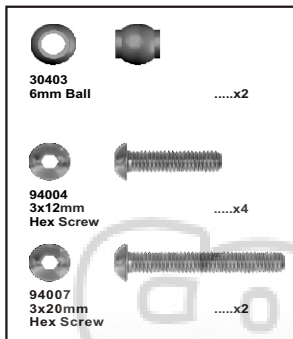


### 32 ASSEMBLY OF THE REAR PUSH RODS

Assembly of the right and left hand side are the same.

**BAG** NO.6

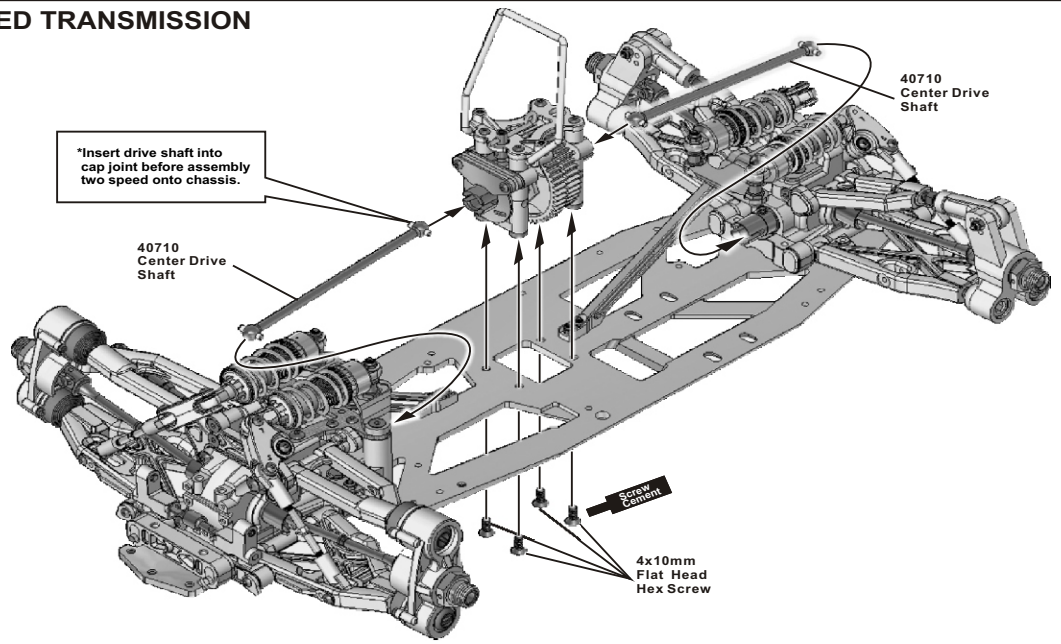
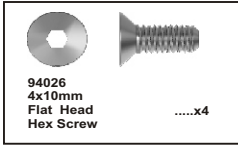
Step 1



A WEB SITE FOR THE SERIOUS RAGER

### 33 ASSEMBLY OF THE TWO SPEED TRANSMISSION ONTO THE CHASSIS

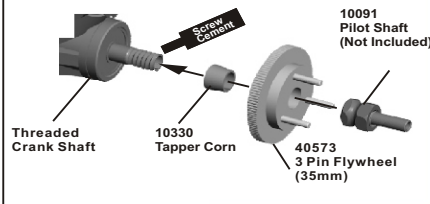
**BAG NO.7**



### 34 ASSEMBLY OF THE CLUTCH

**BAG NO.10**

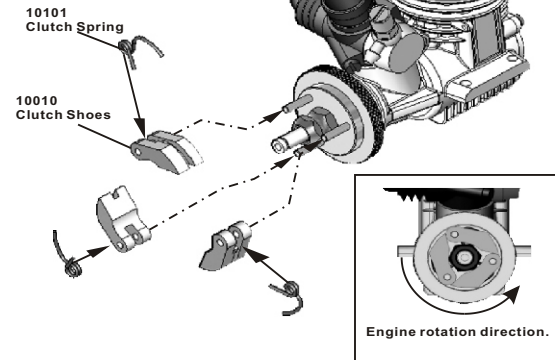
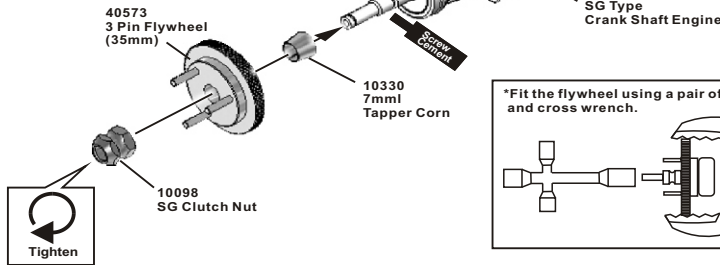
\* Only use the 10091 pilot shaft for threaded crank shaft engine.



**Step 1**

**Step 2**

\*Place the clutch shoes with the clutch springs over the 3 pins of the flywheel.  
\*Using a phillips screw driver or needle nose pliers and bend the small end if the clutch spring behind the pilot shaft #174D or #180D than press down.



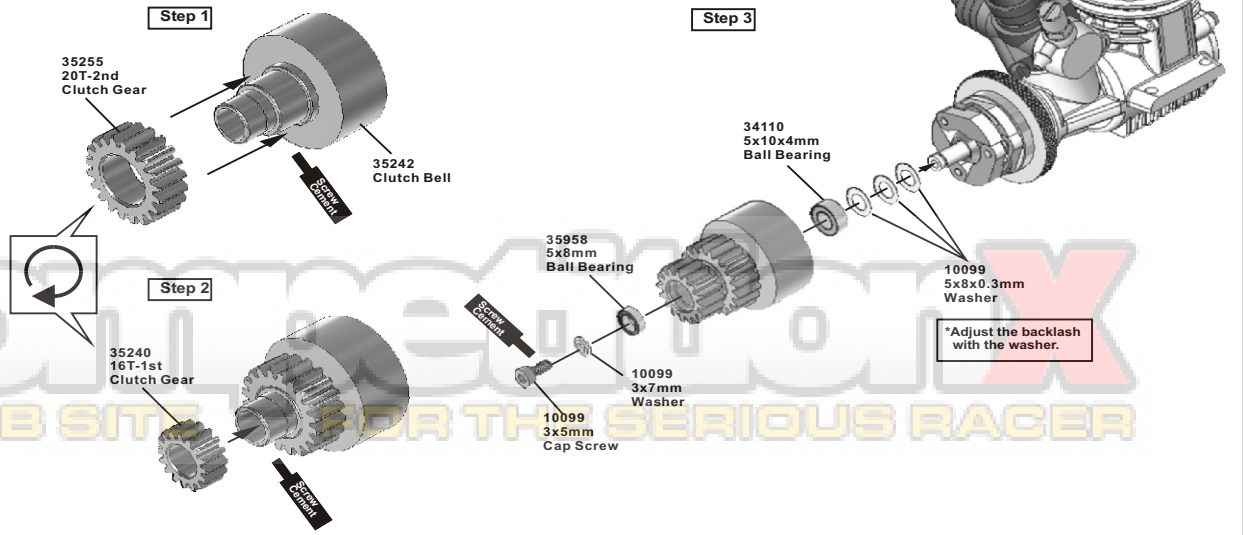
### 35 ASSEMBLY OF THE CLUTCH

**BAG NO.10**

- 10099 3x7mm Washer .....x1
- 10099 5x8x0.3mm Washer .....x3
- 35958 5x8mm Ball Bearing .....x1
- 34110 5x10x4mm Ball Bearing .....x1
- 10099 3x5mm Cap Screw .....x1

**Step 1**

**Step 3**



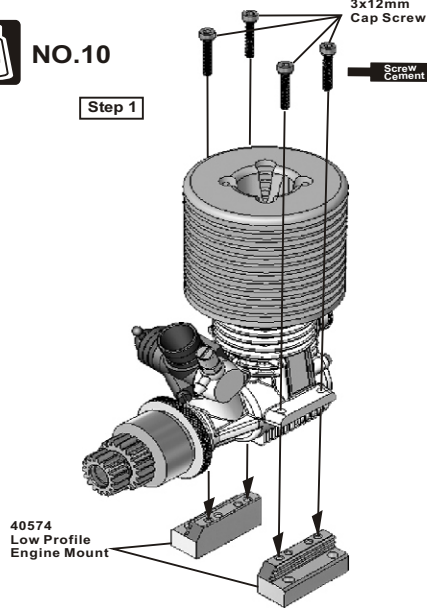
### 36 ASSEMBLY OF THE MANIFOLD AND MUFFLER



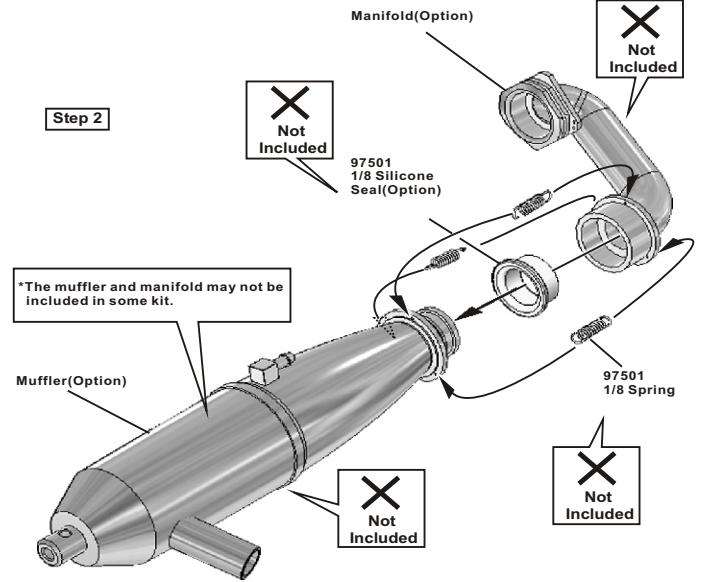
NO.10



Step 1



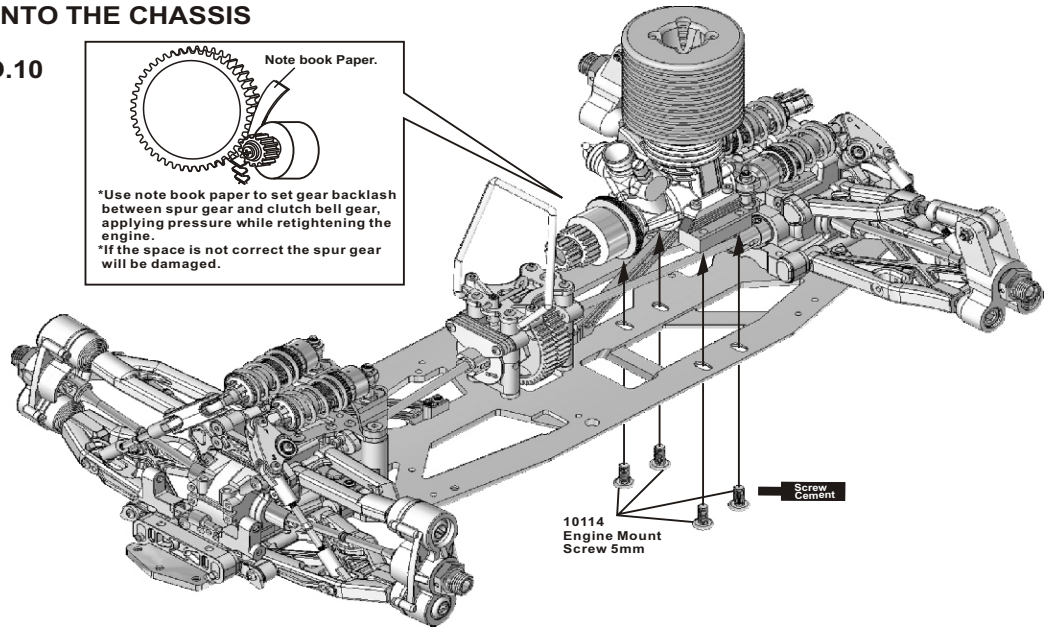
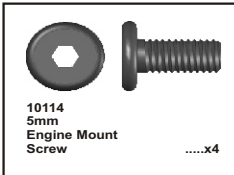
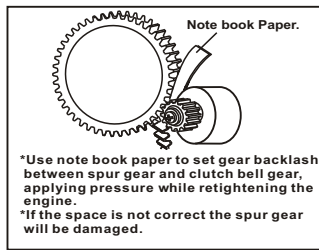
Step 2



### 37 ASSEMBLY OF THE ENGINE ONTO THE CHASSIS



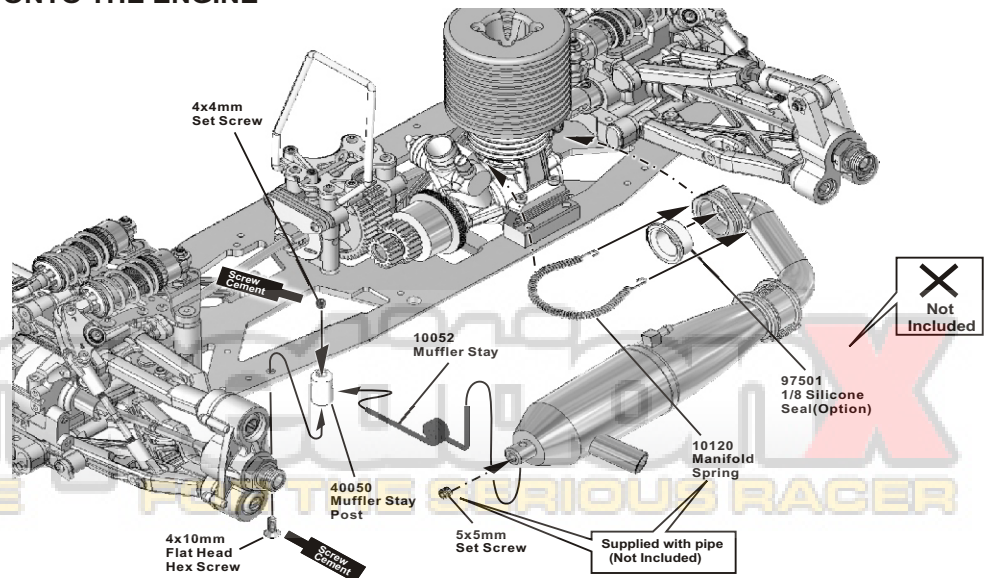
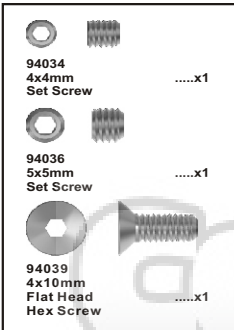
NO.10



### 38 ASSEMBLY OF THE MANIFOLD ONTO THE ENGINE



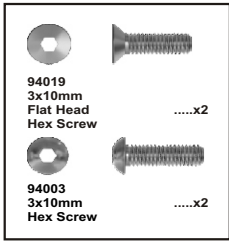
NO.10  
NO.11



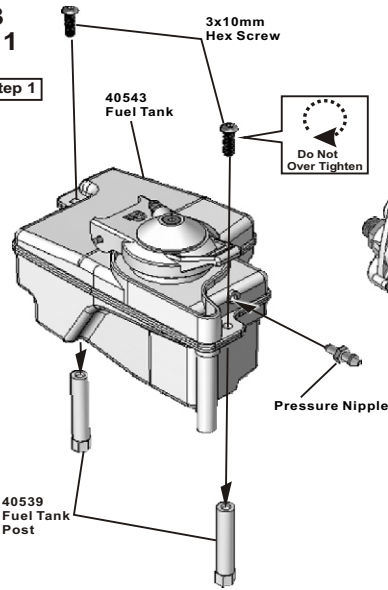
### 39 ASSEMBLY OF THE FUEL TANK ONTO THE CHASSIS



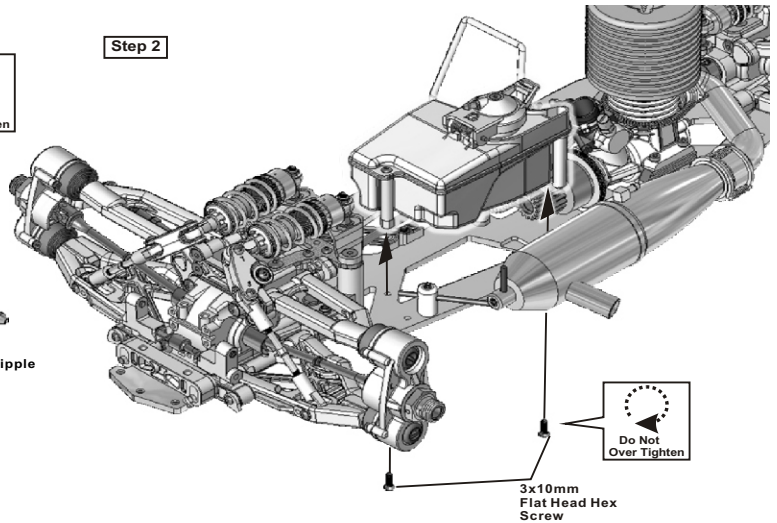
**NO.3  
NO.11**



**Step 1**



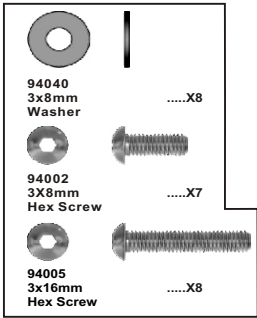
**Step 2**



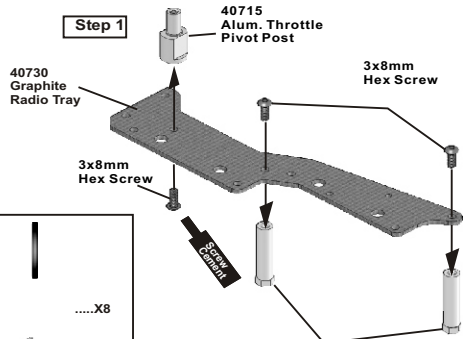
### 40 ASSEMBLY OF THE RADIO TRAY



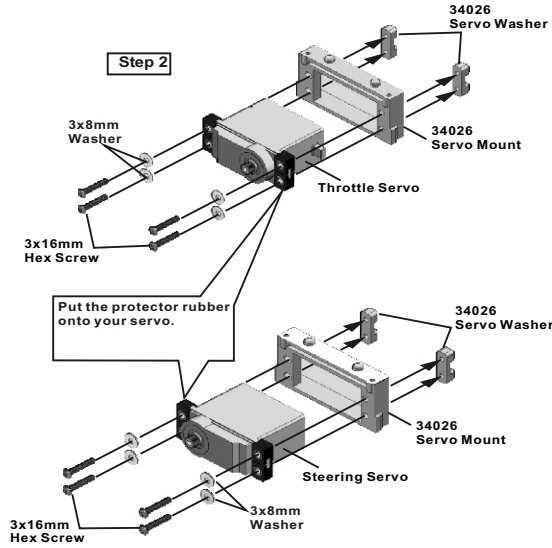
**NO.9**



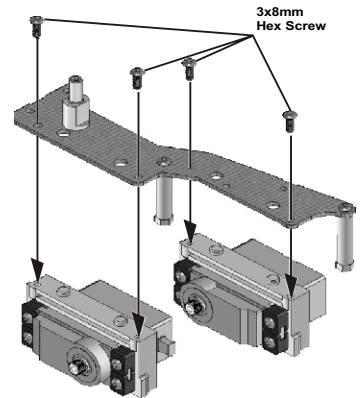
**Step 1**



**Step 2**



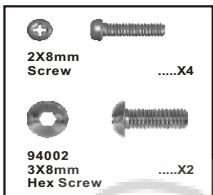
**Step 3**



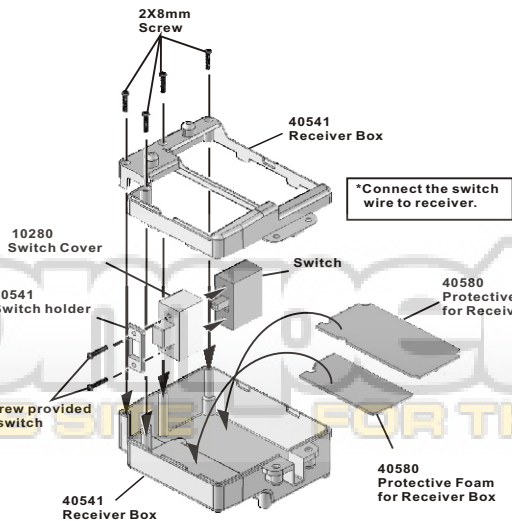
### 41 ASSEMBLY OF THE RADIO TRAY AND RECEIVER BOX



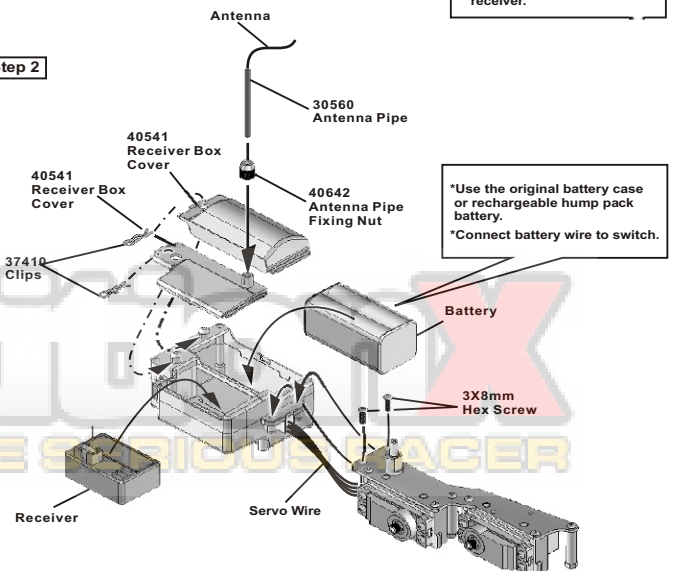
**NO.9**



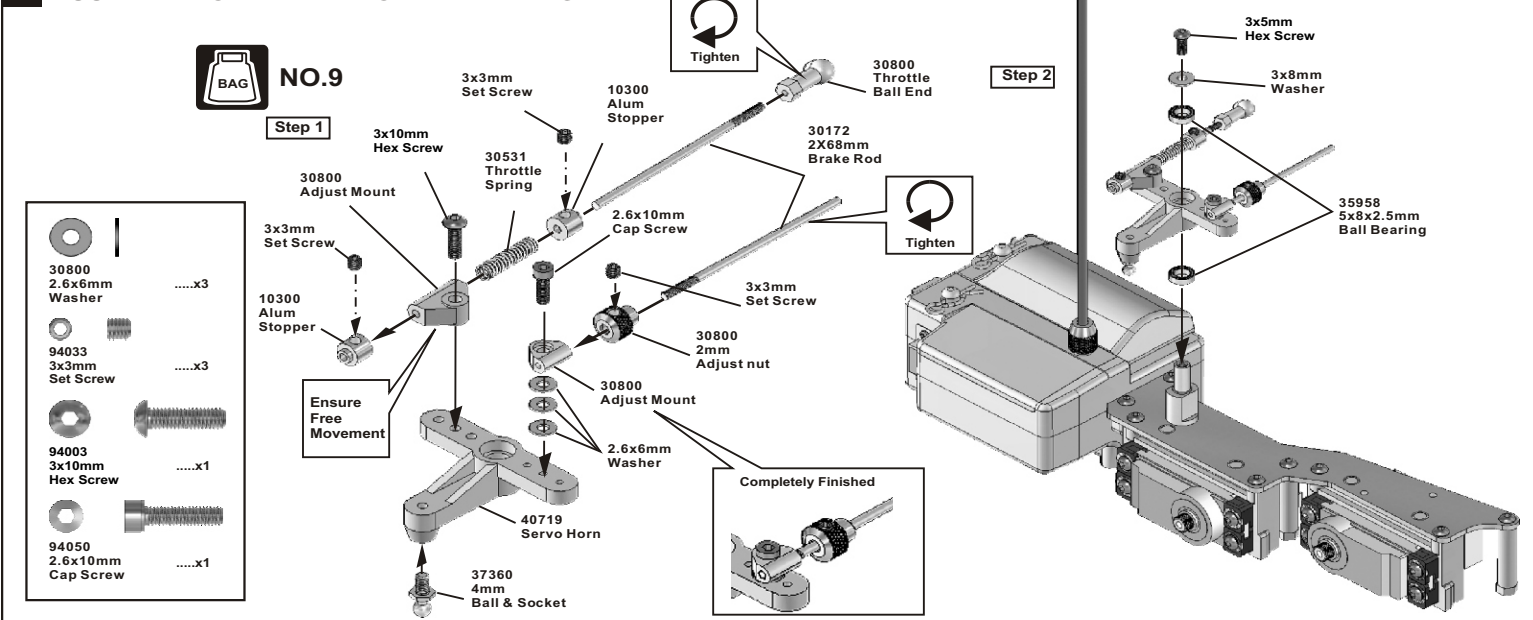
**Step 1**



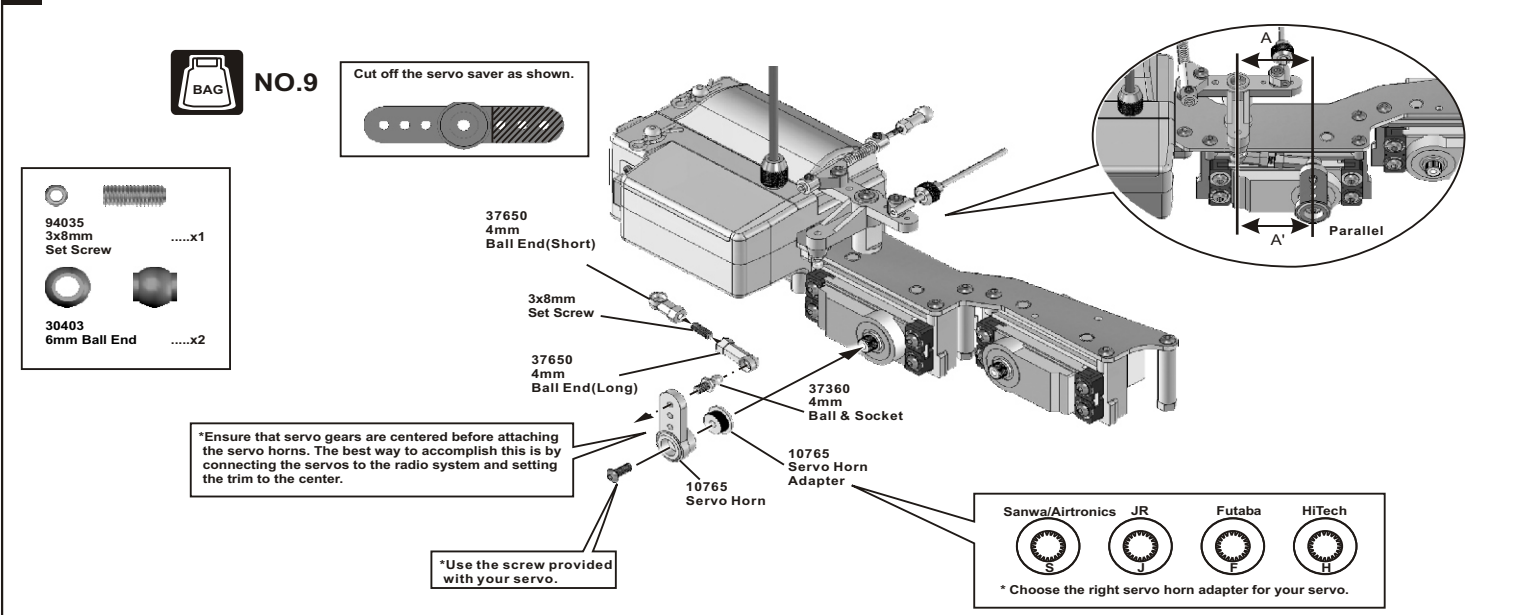
**Step 2**



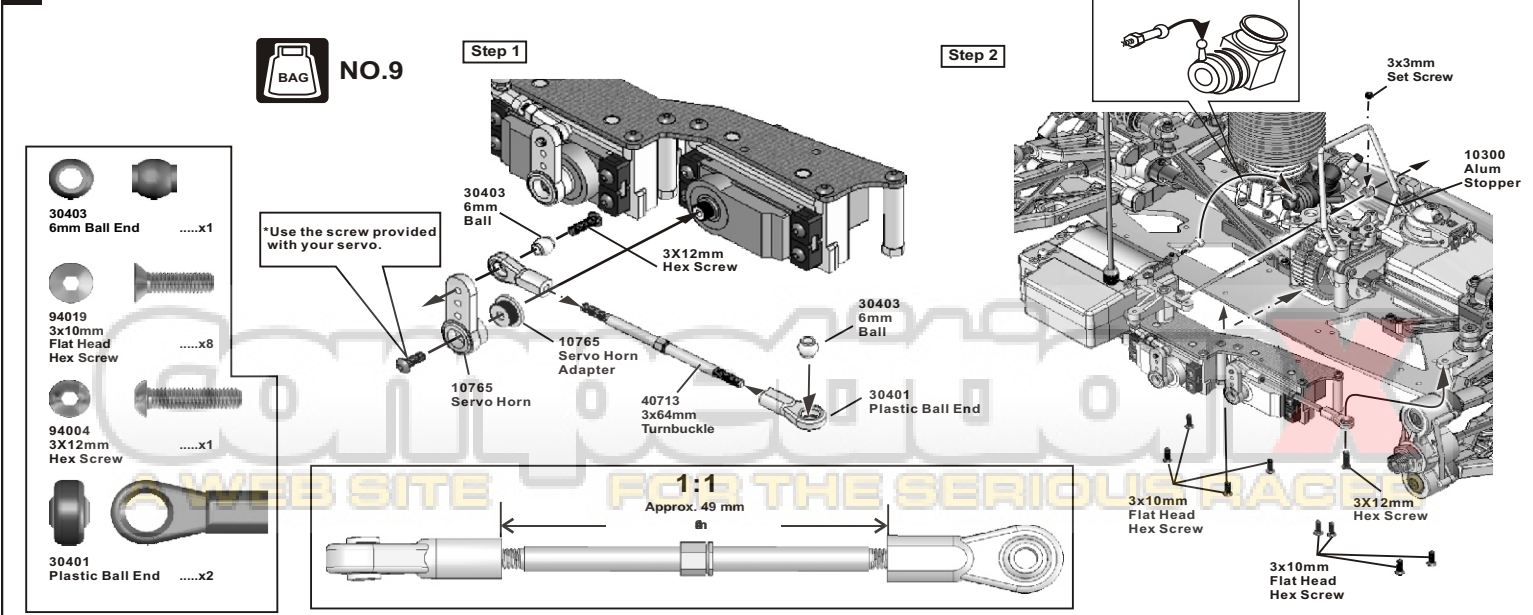
## 42 ASSEMBLY OF THE THROTTLE LINKAGE



## 43 ASSEMBLY OF THE THROTTLE LINKAGE INTO SERVO

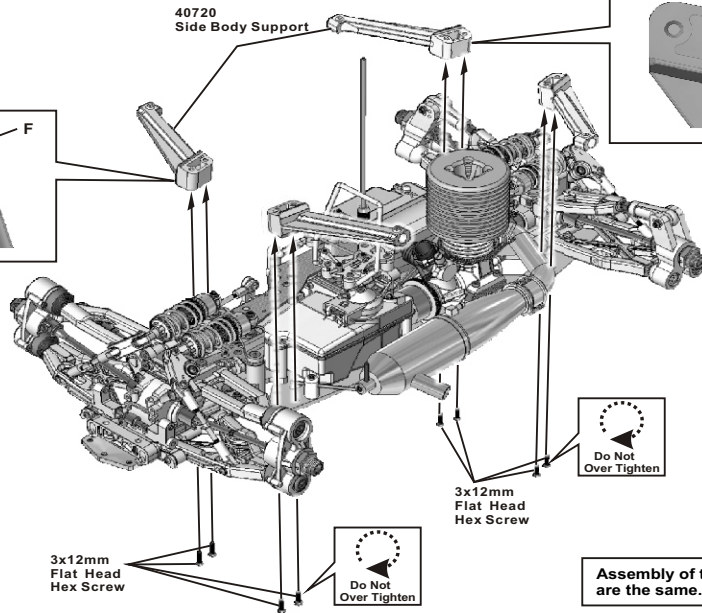
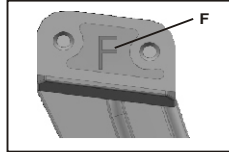
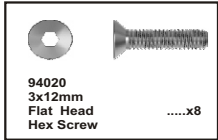


## 44 ASSEMBLY OF THE STEERING ROD AND RADIO TRAY ONTO THE CHASSIS



## 45 ASSEMBLY OF THE SIDE BODY POST

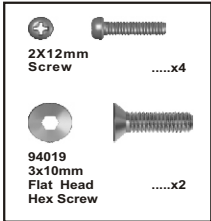
 NO.8



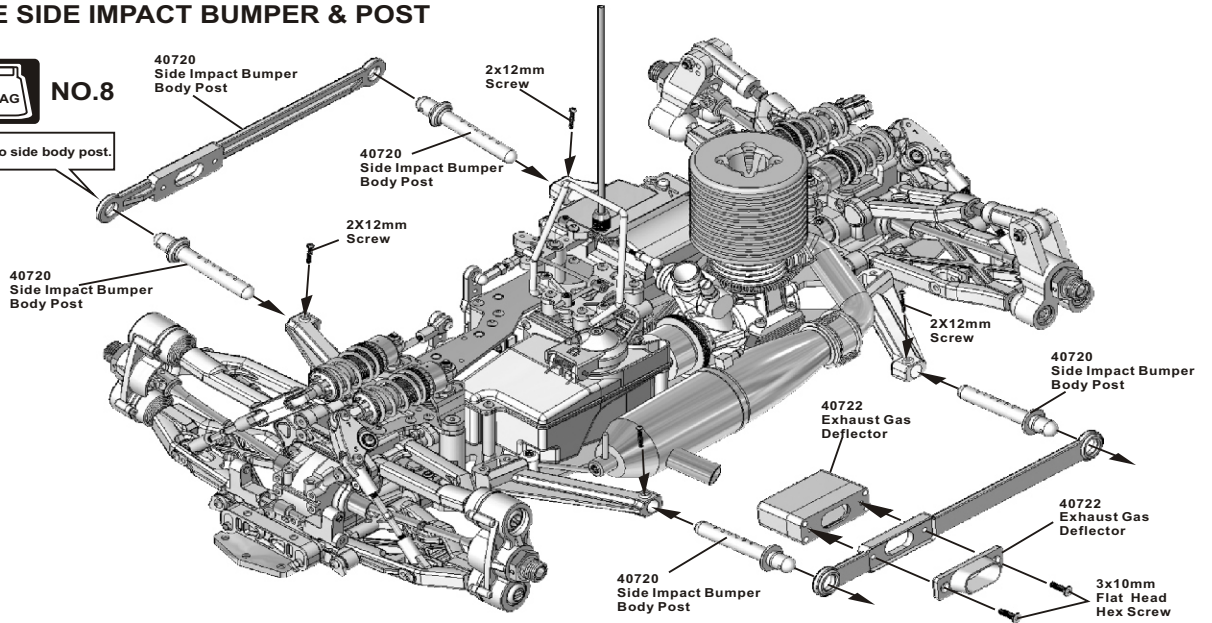
Assembly of the right and left hand side are the same.

## 46 ASSEMBLY OF THE SIDE IMPACT BUMPER & POST

 NO.8

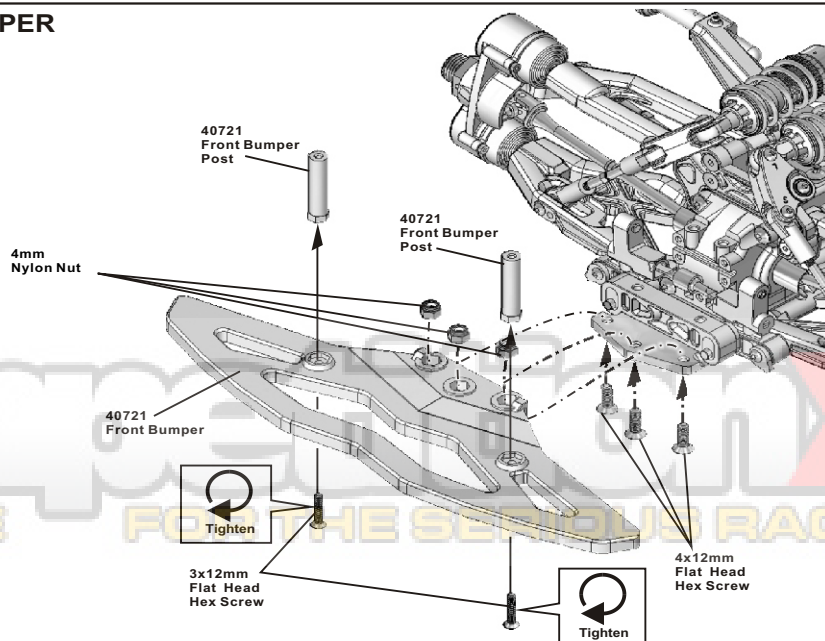
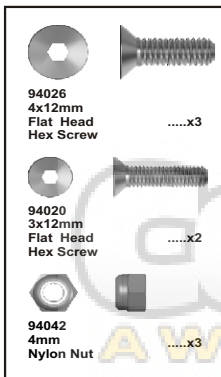


\*Push onto side body post.



## 47 ASSEMBLY OF THE FRONT BUMPER

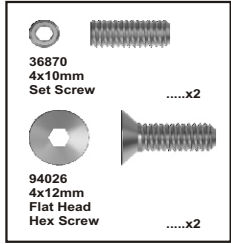
 NO.8



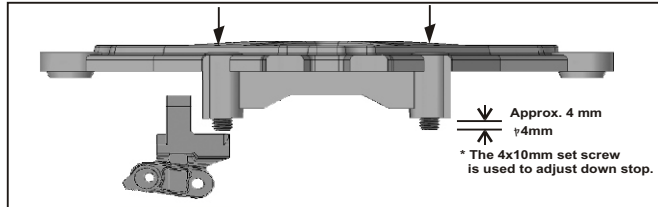
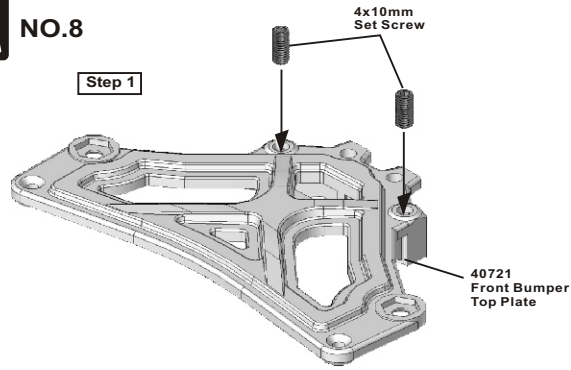
## 48 ASSEMBLY OF THE FRONT BUMPER



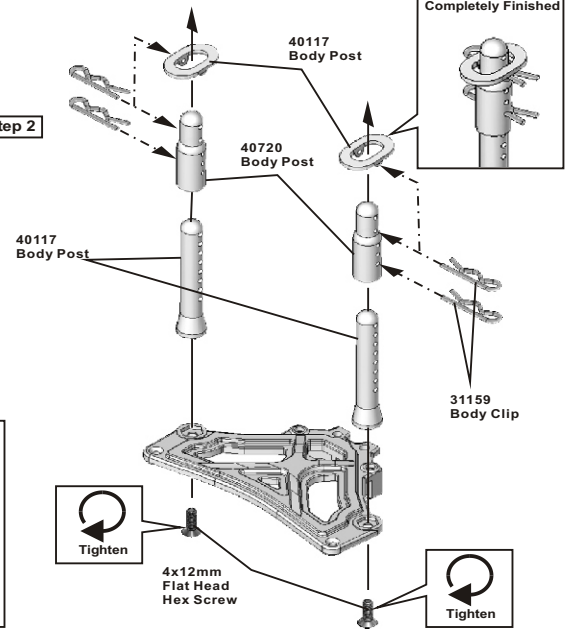
NO.8



Step 1



Step 2

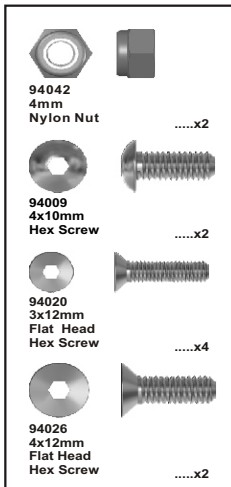


Completely Finished

## 49 ASSEMBLY OF THE FRONT AND REAR BUMPER

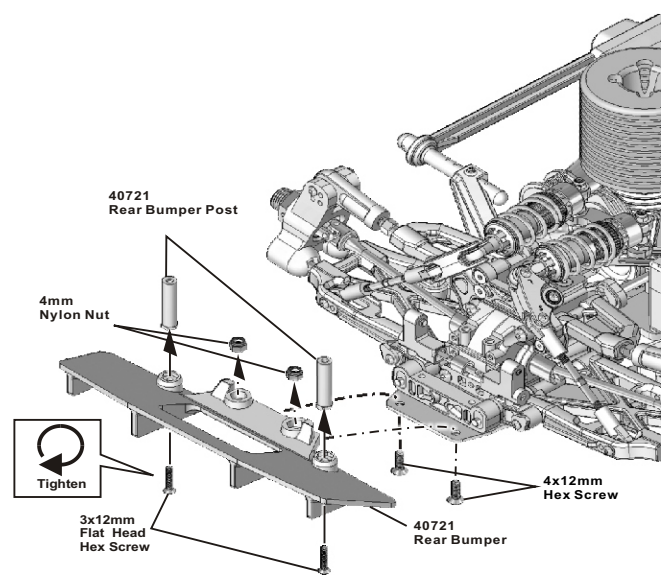
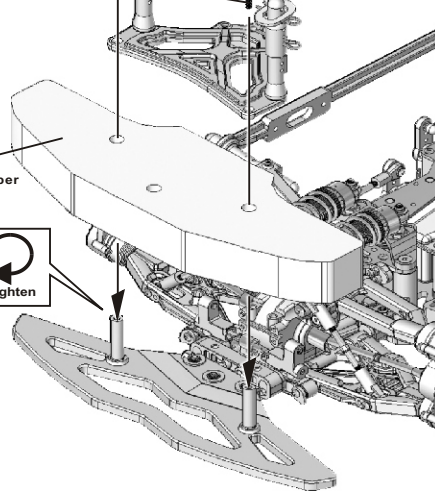


NO.8



3x12mm Flat Head Hex Screw  
4x10mm Hex Screw

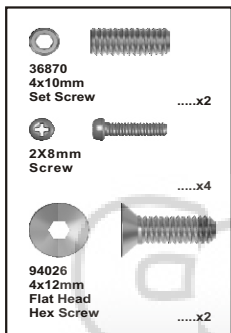
40725 Foam Bumper



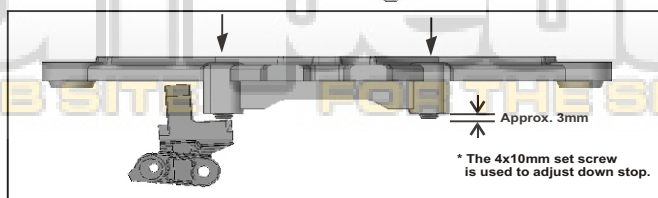
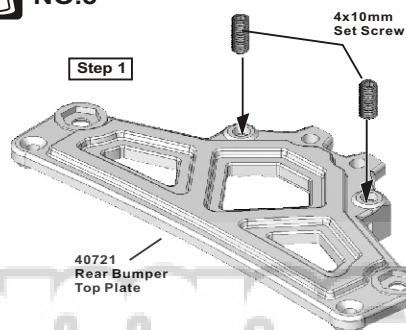
## 50 ASSEMBLY OF THE REAR BUMPER



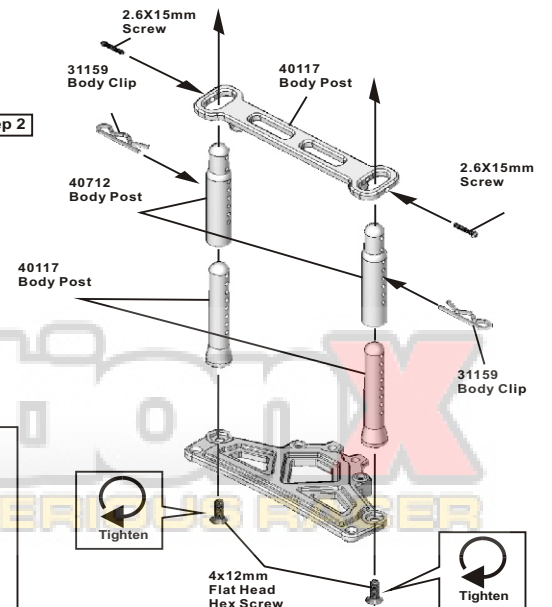
NO.8



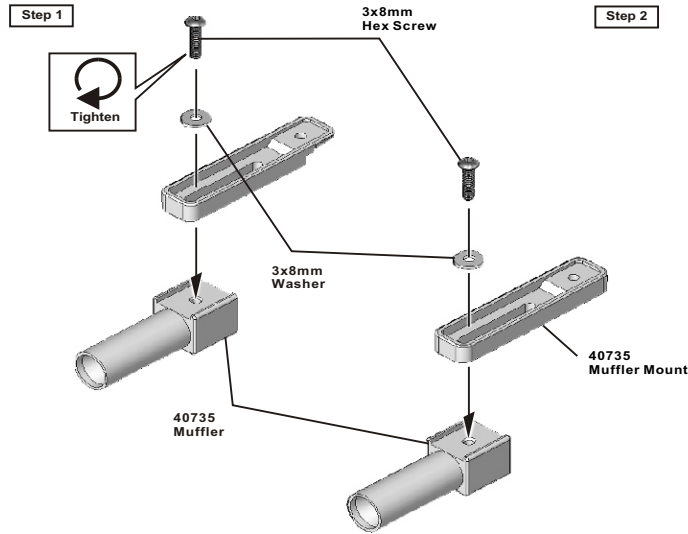
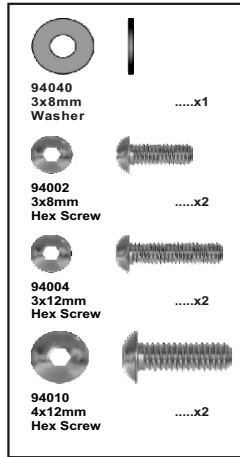
Step 1



Step 2



## 51 ASSEMBLY OF THE REAR EXHAUST PIPE DETAILS

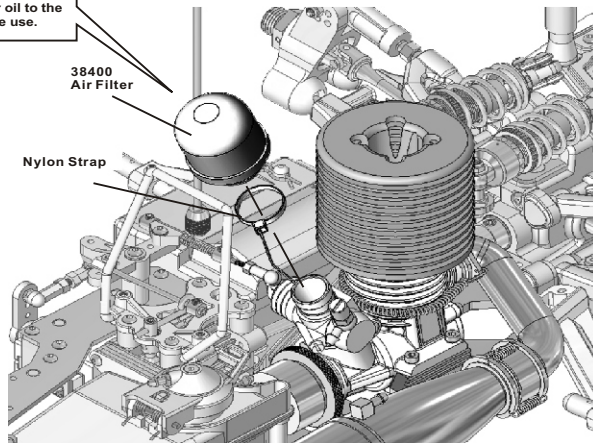


## 52 ASSEMBLY OF THE AIR FILTER

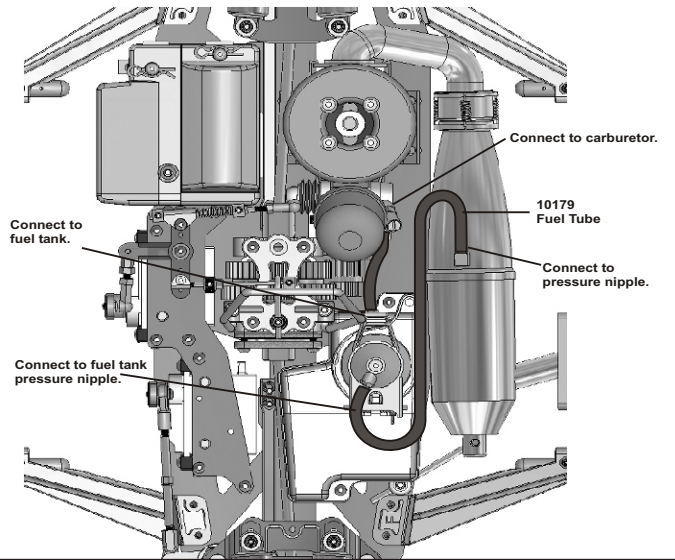


NO.11

\*Apply filter oil to the foam before use.



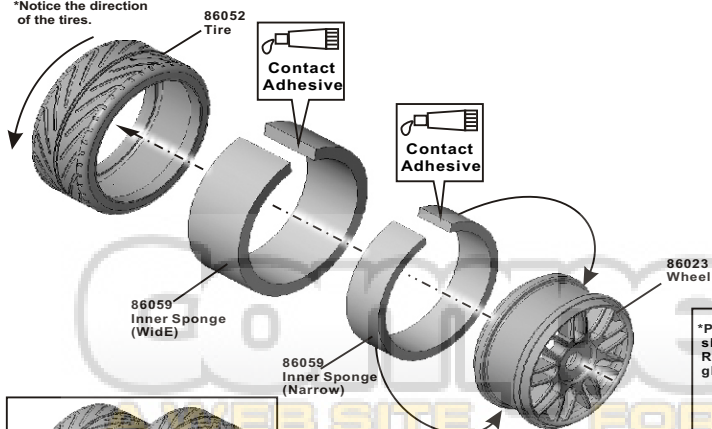
\*Notice the direction and make two left and right hand side tires are the same.  
\*Check the rotation direction before gluing.



## 53 ASSEMBLY OF THE TIRES AND WHEELS

(Left Hand Side)

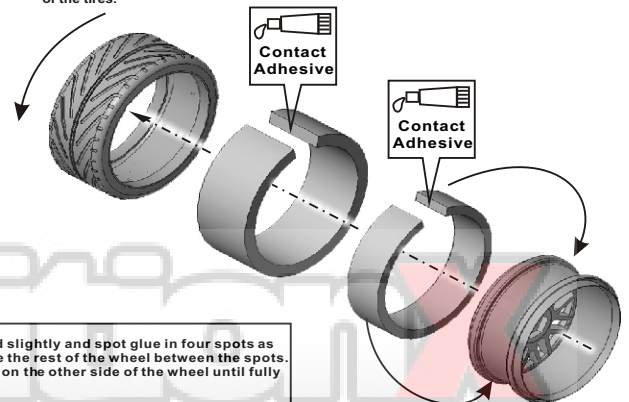
\*Notice the direction of the tires.



\*Notice the direction of the tires. Make two the same for the left and 2 for the right. Check the rotation direction before gluing.

(Right Hand Side)

\*Notice the direction of the tires.



\*Pull back the tire bead slightly and spot glue in four spots as shown. When dry, glue the rest of the wheel between the spots. Repeat the procedure on the other side of the wheel until fully glued.

INSTANT GLUE



## 54 ASSEMBLY OF THE WHEELS ONTO THE FRONT KNUCKLE AND REAR HUB

Assembly of the right and left hand side are the same.



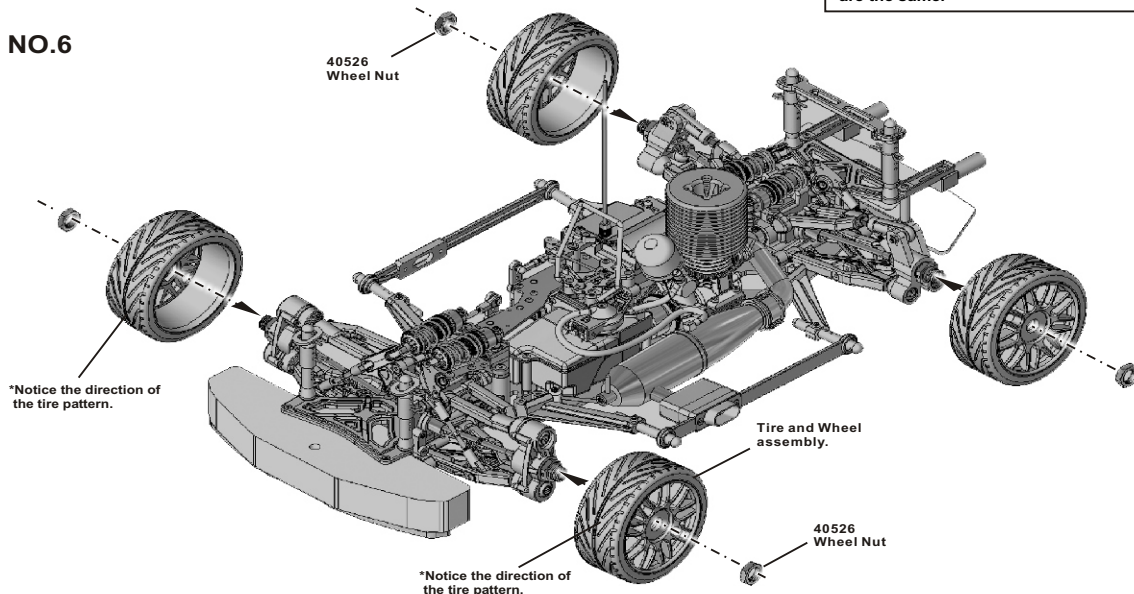
NO.6

Step 1



40526  
Wheel Nut

.....x4



\*Notice the direction of the tire pattern.

Tire and Wheel assembly.

40526  
Wheel Nut

\*Notice the direction of the tire pattern.

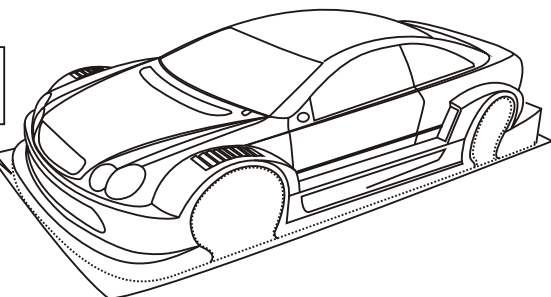
## 55 ASSEMBLY OF THE BODY AND PAINTING

② Before cutting and making holes in the body, put the unpainted body on the chassis to confirm the mounting position and location for holes. Use body reamer or drill to make two 8mm holes in the front and two 8mm holes in the rear.

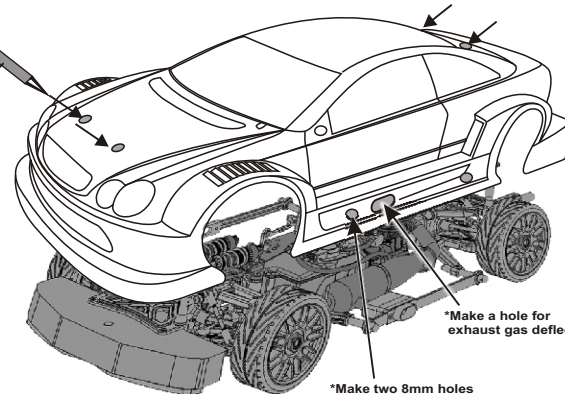
Step 1

① Cut out the body as shown.

Step 2



10803 BLACK  
10804 BLUE  
10805 PURPLE  
Body Reamer  
(Not included.)



\*Make a hole for exhaust gas deflector.

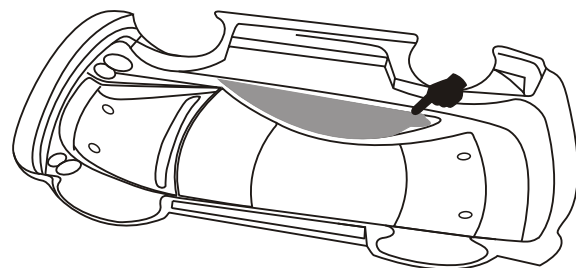
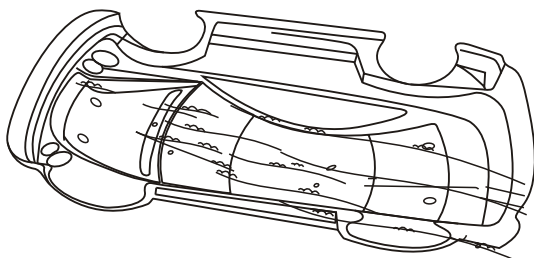
\*Make two 8mm holes for the side body posts.

Step 3

③ Wash body with warm soapy water to remove any dirt and oil.

Step 4

④ Mask the windows from the inside with masking tape.

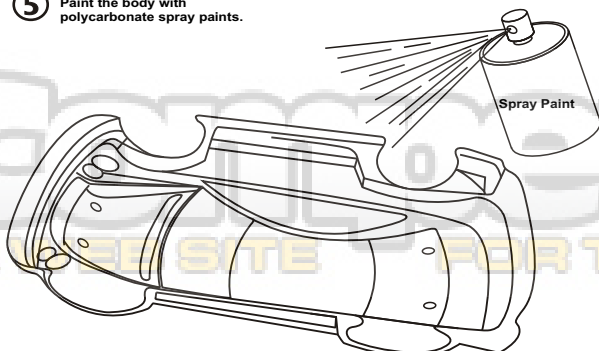


Step 5

⑤ Paint the body with polycarbonate spray paints.

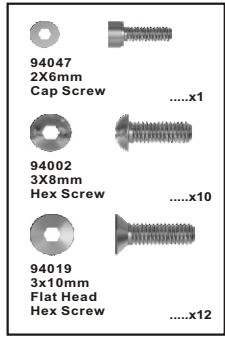
Step 6

⑥ Completely Finished.

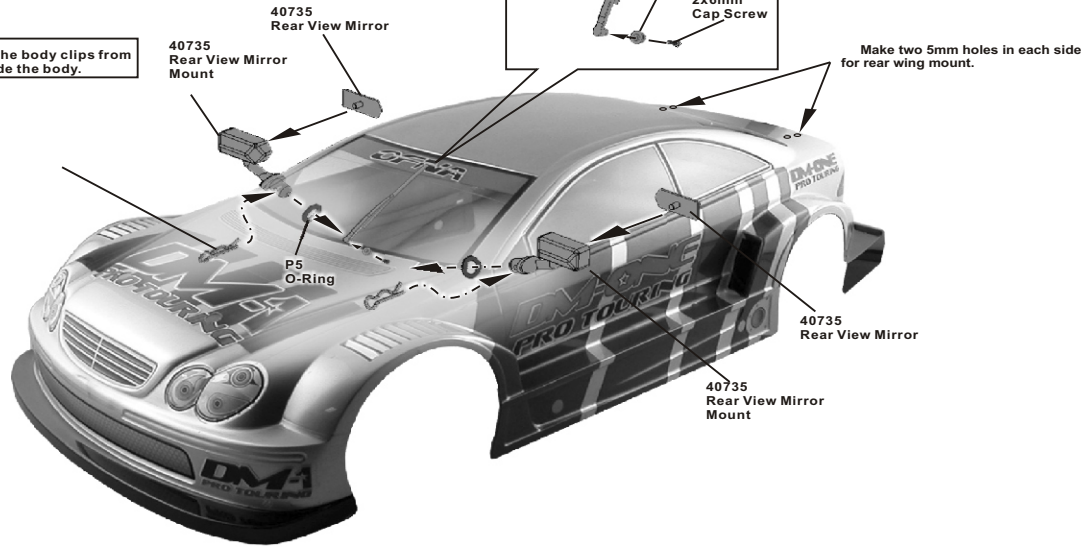


## 56 ASSEMBLY OF THE REAR VIEW MIRRORS AND WIPERS

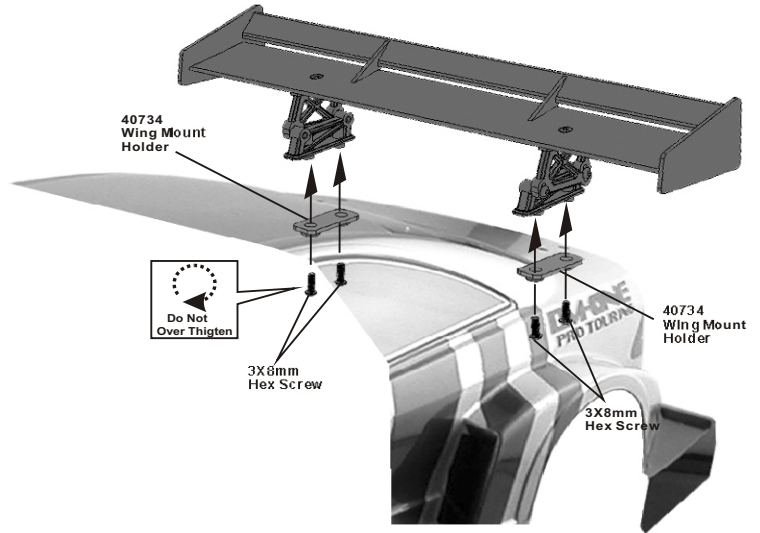
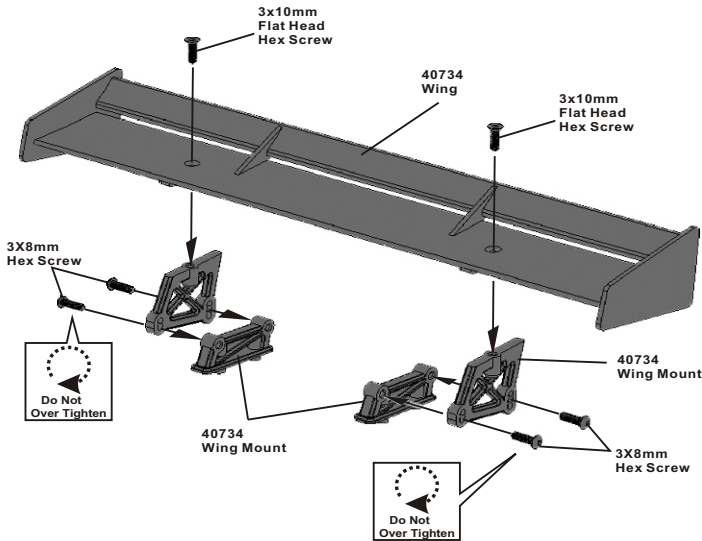
ボディ取り付け



\*Put the body clips from inside the body.



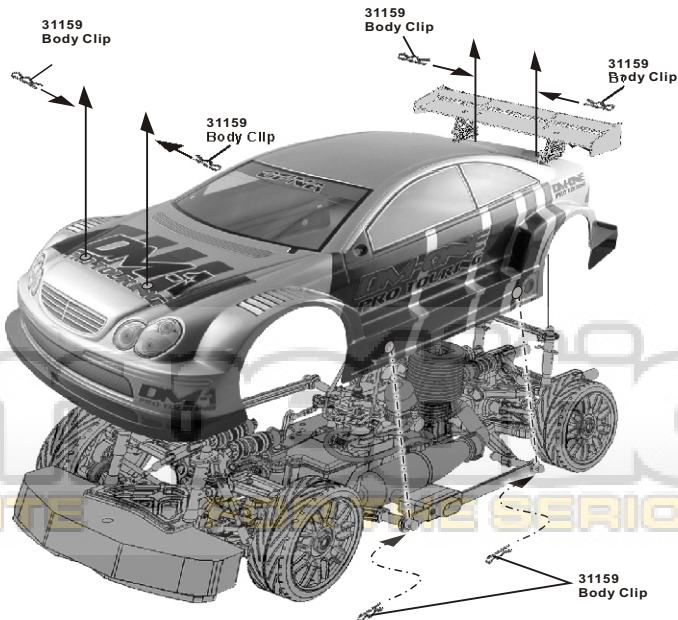
## 57 ASSEMBLY OF THE REAR WING



## 58 MOUNTING BODY



NO.8



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**How to start the engine:**

1. Turn on transmitter and then receiver.
2. Fill fuel tank with fuel bottle.
3. Connect 1.2V glow plug igniter .
4. Start engine with a 12V starter .  
( Notice the direction of the starter.)
5. After the engine has started, remove the 1.2V glow plug igniter .

\* Follow the engine manufacturer instruction manuals regarding engine set-up, carburetor and maintenance.

**A 12V Starter Box ( Not Included)**



10250 - Starter Box 1/8 scale On/Off-Road.

**Glow Plug (Not Included)**

51007



Normal Plug

51006



Turbo Plug

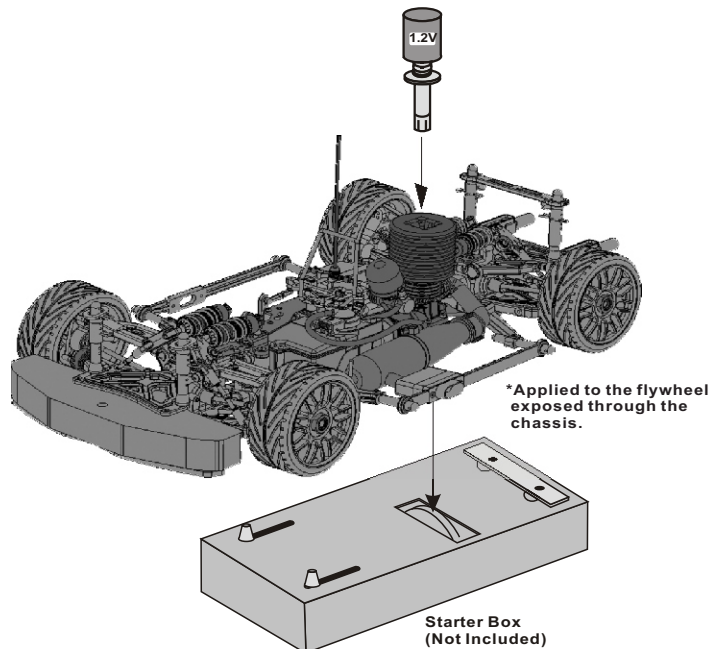
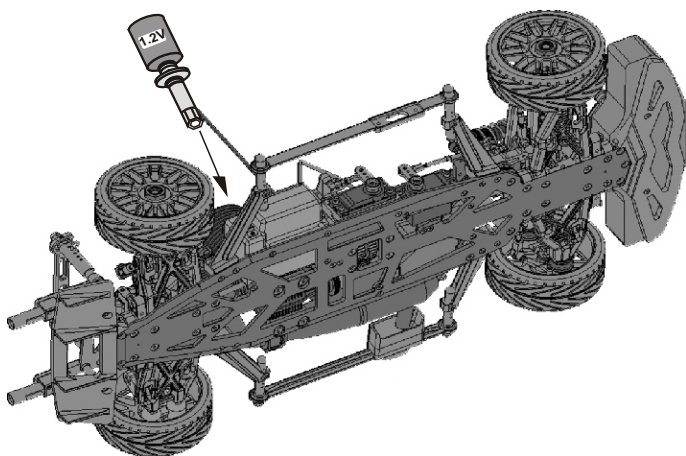
\*There are 2 types of glow plugs available "NORMAL" or "Turbo" depending on the type of the engine.

**1.2V Glow Plug Igniter and Charger (Not Included)**

10215 - Glow Heater, Extra Long W/Charger.



\*To start the car, attach a glow plug igniter to the glow plug, and use either a 12V electric starter or starter box applied to the flywheel exposed through the chassis.

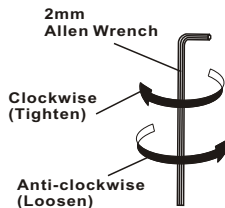
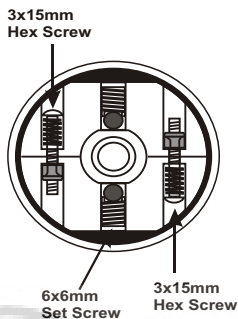


\*Applied to the flywheel exposed through the chassis.

Starter Box (Not Included)

**ADJUSTING THE SHIFT POINT**

Adjust the engine before adjusting the clutch shift timing. Adjust the engine as per engine instruction manual.



**SHIFT UP TIMING ADJUSTMENT**

1. Once the engine adjustments have been completed, proceed to the adjustment of the clutch shoe shift timing. (Using a 2mm allen wrench to adjust the clutch shoe on either side.)

Note: Clockwise-----Shift timing will become later. Counterclockwise---Shift timing will become quicker.

2. Adjust the clutch shift timing for your track conditions. As you tighten (Clockwise) the 3x15mm screw, the shift timing will become slower. As you loosen (Counterclockwise ) the 3x15mm screw, the shift timing will become quicker.
3. Set the shift timing to the track conditions while the car is running.

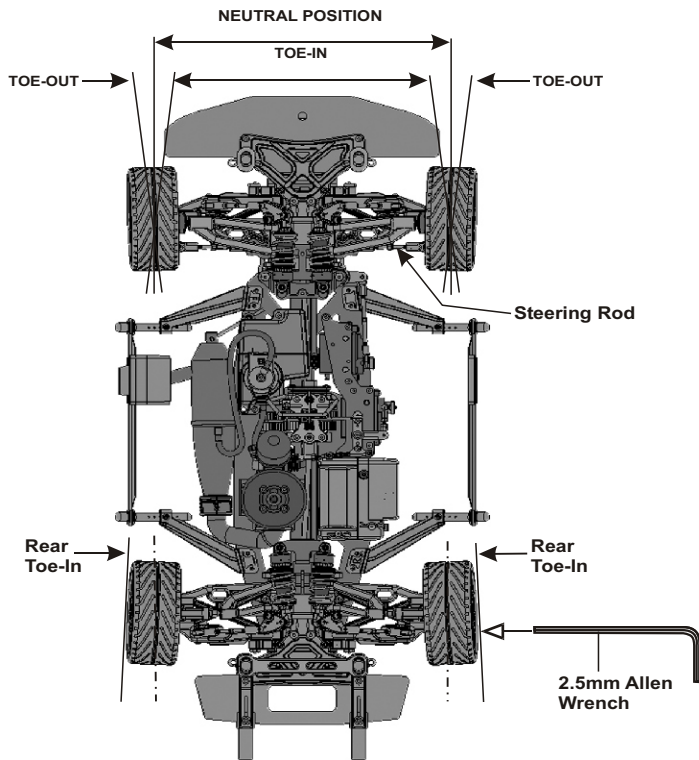
**2 SPEED GEAR RATION COMBINATIONS**

2 speed transmission allows the car to have more punch out of the corners and higher top speed. We offer many different pinion and spur gear combinations which can be used for different tracks.

Spur Gear	Clutch Gear (4 tooth different)			Torque ↑ Speed ↓
	15T-19T	16T-20T	17T-21T	
49T/45T	←—————→			
48T/44T				

# SETTING GUIDE

## FRONT TOE-IN AND TOE-OUT SETTING



**Use a 2.5mm allen wrench to adjust toe-in for front and rear.**

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

Making the steering rod longer will make the front tires become toe-in.  
Response will be slower and will over steer.

Making the steering rod shorter will make the front tires become toe-out.  
Response will be quicker and will under steer.  
We recommended adjusting the front toe-out to 1.5 degrees.

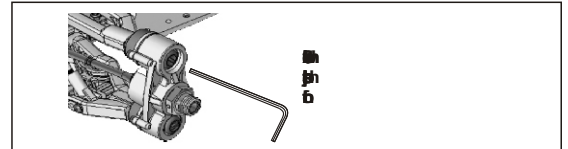
(Rear) Adjust the length of the rear hub (12mm ball/rear) to change the toe angle.

Making the 12mm ball longer will make the rear tires toe-in.  
Response will be under steer.

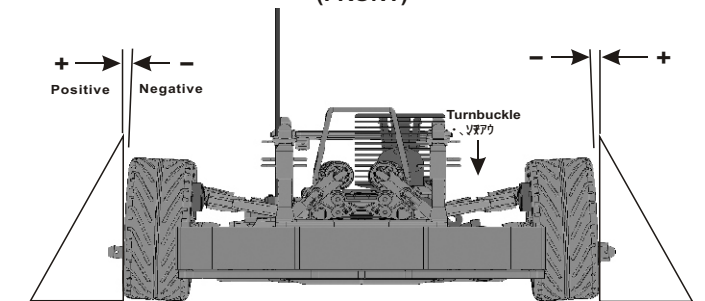
Making the 12mm ball shorter will make the rear tires toe-out.  
Response will be over steer.  
We recommended adjusting the rear toe-in is 2 degrees.

## FRONT AND REAR CAMBER ANGLE SETTING

Note: Place the model car on a flat surface. Raise the chassis to it's maximum clearance before the wheels leave the ground. Adjust the length of the front and rear upper arms so that the wheels are right angles to the ground.

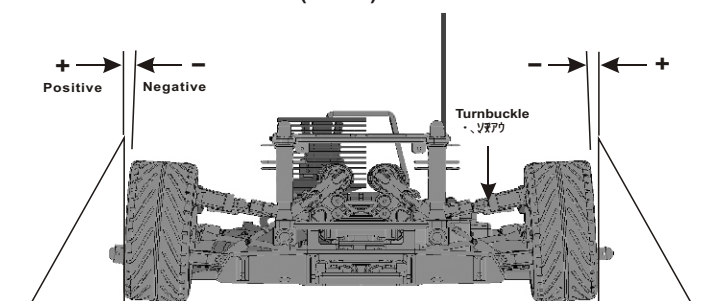


(FRONT)



The front camber adjustment can be made by moving the 14mm steering ball at the front upper arms on knuckles, clockwise or anti-clockwise.  
We suggest using 1.5 degrees of negative camber for the front.

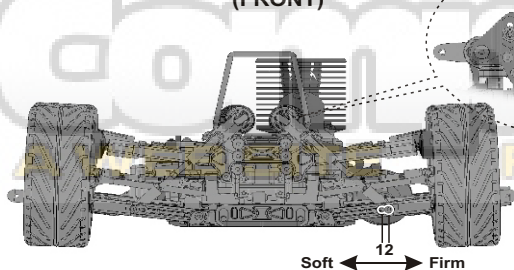
(REAR)



Adjust the length of the turnbuckle on the rear upper arms can change the rear camber.  
We suggest using 2 degrees of negative camber for the rear.

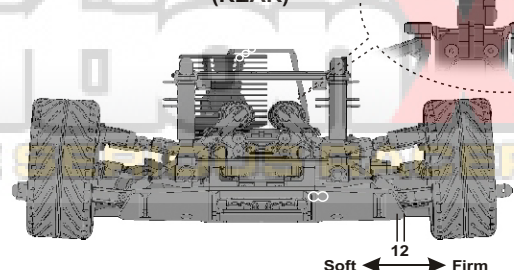
## FRONT AND REAR SHOCK ANGLE SETTING

(FRONT)



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

(REAR)



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

BLANK

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**DM1-PRO PARTS LIST**

OFNA	Description	RETAIL	OFNA	Description	RETAIL
30171	Brake Lever	1.95	40519	Cap Joint	9.95
30172	Brake Rod	1.50	40521	Universal Joint, Front	44.95
30401	6mm Ball End (Plastic)	2.95	40525	Rear Lower Arm Shaft (3x48.1mm)	6.95
30403	6mm Ball & Socket	4.95	40526	17mm Wheel Hub	11.95
34110	Ball Bearing 5X10X4	6.95	40550	17mm Wheel Nut	4.95
30531	Throttle Spring	2.95	40531	Shock Ball End Post/one- piece/Top	9.95
30560	Antenna Pipe	2.95	40533	Gear Case	11.95
30776	4x10x0.2 Washer	1.95	40537	Front Upper Arms	6.95
30800	2mm Brake Adjust Nut	6.95	40538	Diff. Case (F&R)	9.95
30800	Throttle Linkage Plastic	6.95	40539	Servo Saver & Center Bracer	11.95
30773	4mm Cross Pin	3.95	40541	Receiver Box	14.95
40117	1/8 Truck Body Mount	10.95	40543	Fuel Tank	16.95
86052	1/8 Radial Tire	19.95	40546	Front Arm Shaft 3x42.7mm	11.95
34026	Servo Fixing (Lay down)	7.95	40547	Brake Cam	8.95
40710	Center Drive Shaft 120mm	19.95	40548	M3 Nylon Nut (Thin Type)	1.95
40711	4x90mm Arm Shaft	7.95	40568	Graphite Front Plate	31.95
40712	3.5x48mm Turnbuckle	9.95	40573	3-pin Flywheel, 35mm	19.95
40713	3x64mm Turnbuckle	9.95	40574	Engine Mount (Lower Type)	18.95
40714	Center Handle Bar	3.95	40580	Protect Foam for Receiver Box	1.95
40715	Throttle Connecting Alum. Post	7.95	40643	Plastic Shock Parts Set	9.95
40716	Rear Upper Arms	9.95	40694	CNC 7075 Chassis Brace, F&R	59.95
40717	Front & Rear Lower Arms	19.95	30401	Plastic Parts Set for Damper	2.95
40718	Ball Type Knuckle Arms (L&R)	19.95	31159	Body Clips	4.95
40719	Arm Holder Plastic	15.95	10120	Manifold Spring	4.95
40720	Body Side Bumper	9.95	10280	Switch Cover, red	3.95
40721	Front & Rear Bumper	19.95	10300	Alum. Stopper	4.95
40722	Exhaust Connector	7.95	10179	Fuel Tube (45cm)	1.95
40723	Dust Proofer Cover	7.95	10270	Fuel Tube Clips	3.95
40724	Rubber Bushing for Hex Screw	4.95	10010	3 Shoe Clutch carbon	13.95
40725	Foam Bumper	14.95	10101	Clutch Spring	4.95
40726	M.Benz CLK DTM Body, clear	79.95	10098	Pilot Shaft, SG Type	4.95
40727	Nissan G35 Body, clear	79.95	10114	Engine Mount Screw, 5mm Hex	7.95
40728	Porsche Carrera GT Body, clear	79.95	35958	5x8x2.5 Ball Bearing	3.95
40729	CNC 7075 Chassis	179.95	10330	Cone, 7mm Brass Tapper	2.95
40730	Graphite Radio Tray	39.95	36053	8x16 Ball Bearing	12.95
40731	CNC Alum Shock Stay, F	39.95	36055	2.5x17 Pins	3.95
40732	CNC Alum Shock Stay R	39.95	30212	5x8x2.5 Frange Bearing	5.95
40733	Universal Joint, Rear	59.95	35225	1st Spur Gear Holder (one-way)	26.95
40734	Wing & Wing Stay Unit	12.95	35228	Alum. Nut (anti-clockwise)	2.95
40735	Real Muffler & Back Mirror	14.95	35230	8 x 12 Flange Bearing	12.95
37360	4mm Ball & Socket	4.95	35248	48T 1st Spur Gear	7.95
37410	Body Pin (S)	3.95	35244	44T 2nd Spur Gear	7.95
37650	4mm Plastic Ball Joint	6.95	35240	Clutch Gear (1st) 16T	11.95
40126	3x6x2.5 Flange Washer	3.95	35255	Clutch Gear (2nd) 20T	11.95
36700	Steering 7mm Ball	6.95	35242	Clutch Bell	24.95
36742	Servo Saver Bushing	1.95	86059	GTP Inner Sponge (L&S)	9.95
36790	4x46 Turnbuckle	10.95	31308	Stablizer (Steel) (L&R)	10.95
36850	7mm Ball	3.95	31304	Rear Hub (Ball Type)	10.95
36861	5x35 Turnbuckle	6.95	31305	Plastic Washer for Ball	8.95
36903	Steering Ball 14mm	7.95	31306	12mm Alum. Hex Screw	8.95
36904	14mm Alum. Nut	9.95	31307	11mm Ball & Screw	8.95
40009	P-6 O-Ring	2.95	35234	2nd Spur Gear Clutch Bell	24.95
40010	2.5x13.8 pin	2.95	35219	Alum. Nut (clockwise)	2.95
40011	Diff. Gaskets	3.95	35236	Clutch Shoe	14.95
40024	Diff Bevel Gear Shim 13x16x0.2mm	2.95	35237	Spring	9.95
40500	Servo Saver Spring (Black)	3.95	35237	4mm Ball	9.95
40034	Alum. Servo Saver Ring Adjuster	5.95	35235	Clutch Shoe Carrier	5.95
40037	Steering Plate Hex Screws	5.95	35237	6x6mm Set Screw	9.95
40038	7mm Balls (Black)	9.95	10765	Universal Servo Horn	8.95
40040	Center Diff Mount (plastic)	4.95	40090	Shock Repair Kit	7.95
40060	M2.5 Nylon Nut	4.95	86023	1/8 Mesh Wheels (Black)	19.95
40050	Muffler Stay Post	6.95	38400	1/10 Air Filter	9.95
40065	Rear Upper Ball End	4.95	36659	SPL Brake Pad for 1/8 Cars	31.95
40073	Bearing, 4x8 Flange	12.95	40642	Antenna Pipe Fixing Nut	2.95
40074	6x10 Ball Bearing	17.95	40633	Shock Cap, 13mm	18.95
49009	SPL CNC Brake Disk	19.95	40634	Shock Spring Adjuster	9.95
40112	2-Speed Shaft	9.95	40635	Shock Shaft Dust Covers	5.95
40120	8mm Cap Joint for Brake	11.95	40636	15x1 O-Ring	3.95
40560	Servo Saver Connecting Plate	12.50	40637	Dust Felt for Shock Absorber	1.95
40563	Alum. Servo Saver Tube	9.95	40638	Shock Piston, 13mm	7.95
40511	Servo Saver Post	6.95	40640	Shock Pressure Top, Orange	5.95
40512	Center Diff. Mount Post	13.95	10052	Spring Muffler Stay	4.95
40513	Diff. Gear (small & large )	16.95	40736	DM-1 Shock Shaft	7.95