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LOTUS SPORT Nitro

1/6th SCALE LOTUS SPORT ELISE



INSTRUCTION & MAINTENANCE MANUAL

Approved and Licensed Product of Group Lotus Limited.

S1020



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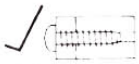
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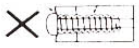
IMPORTANT SAFETY NOTES

1. This product is not suitable for children under 14 years of age unless supervised by an adult.
2. Select an area for assembly that is away from reach of small children. The parts are small and can be swallowed by children causing choking and possible internal injuries.
3. Shock fluids, grease and adhesives should be kept out of children's reach. They are not toxic, but were not intended for human consumption.
4. Exercise care when using any hand tools, sharp instruments and power tools during construction.
5. Carefully read all manufacturers warnings and cautions for any glues or paints that may be used for assembly purposes.

Do not use excessive force when tightening the self-tapping screws, or you may strip the thread in the plastic. It is recommended to stop tightening it when the threaded part on the screw goes into the plastic part and you feel some resistance from the tightening. Screws can be made easier to tighten if a drop of oil is used.

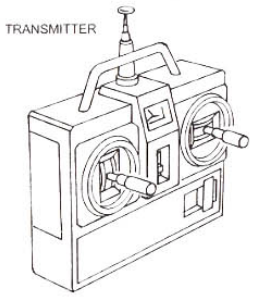


Good

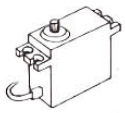


Over tighten and may strip the thread in the plastic

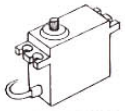
ADDITIONAL ITEMS REQUIRED



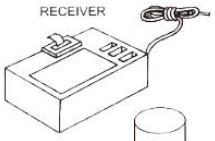
TRANSMITTER



STEERING SERVO



THROTTLE SERVO



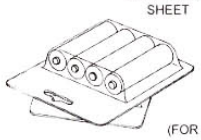
RECEIVER



GLOW START



SEE WARNING SHEET



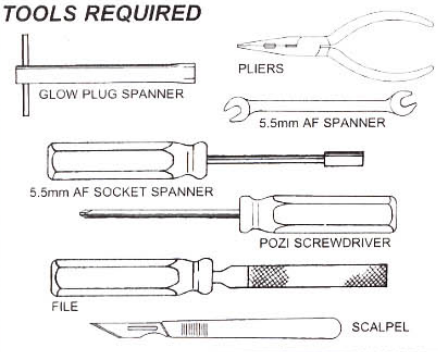
ALKALINE "AA" CELLS (FOR RADIO CONTROL)



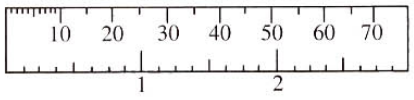
POLYCARBONATE SPRAY PAINT FOR BODYSHELL

FOR BEST PERFORMANCE, IT IS VERY IMPORTANT THAT GREAT CARE IS TAKEN TO ENSURE THE FREE MOVEMENT OF ALL PARTS.

TOOLS REQUIRED



RULER *INCHES & MILLIMETRES*



In line with our policy of continous development the exact specification of the kit may vary.
In the unlikely event of any problems with your kit please contact the model shop where you purchased it.

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STEERING SERVO INSTALLATION

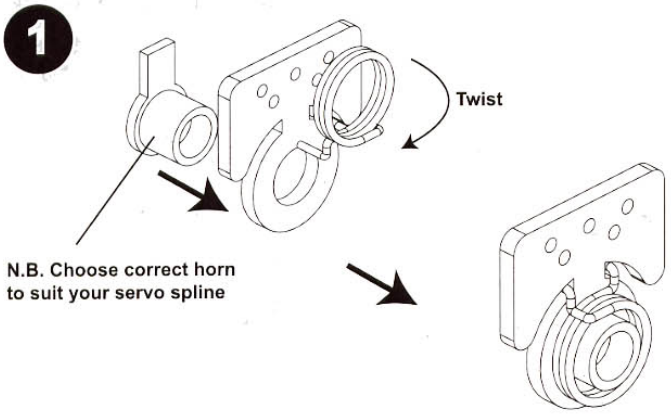
A X2 M3 Nyloc Nut

B X4 M3 Steel Washer

C X2 No4 3/8 Pan Head

D X2 M3 x 12mm Csk Head

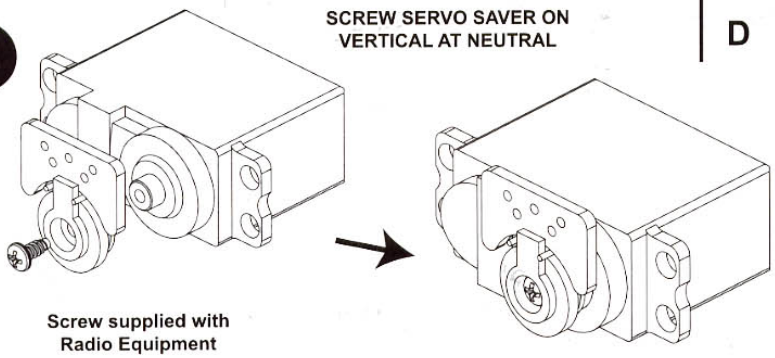
1



N.B. Choose correct horn to suit your servo spline

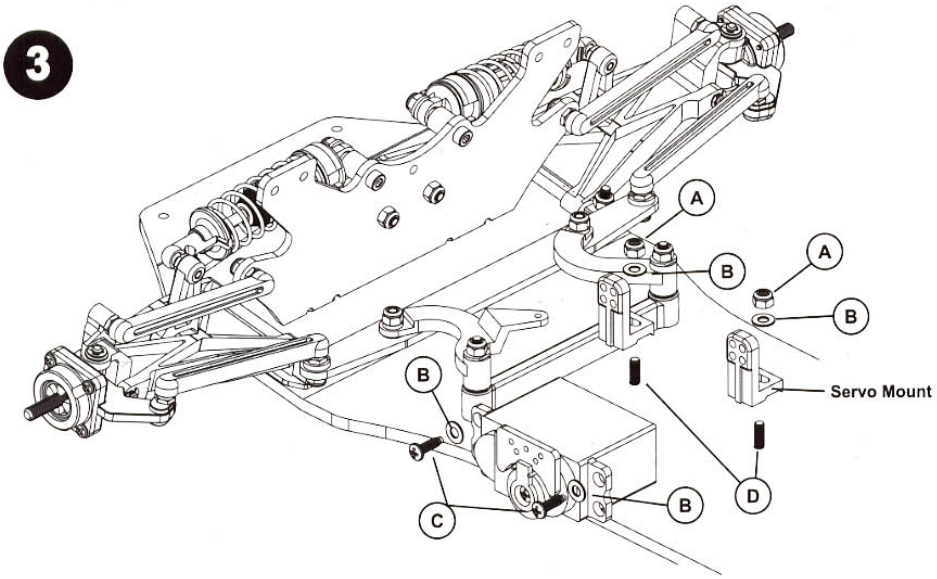
2

SCREW SERVO SAVER ON VERTICAL AT NEUTRAL



Screw supplied with Radio Equipment

3

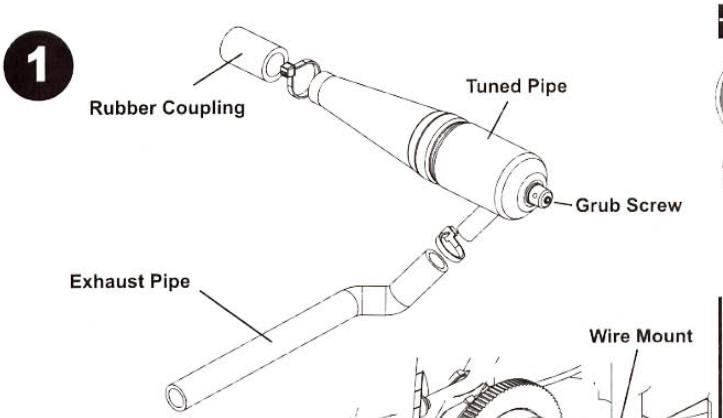


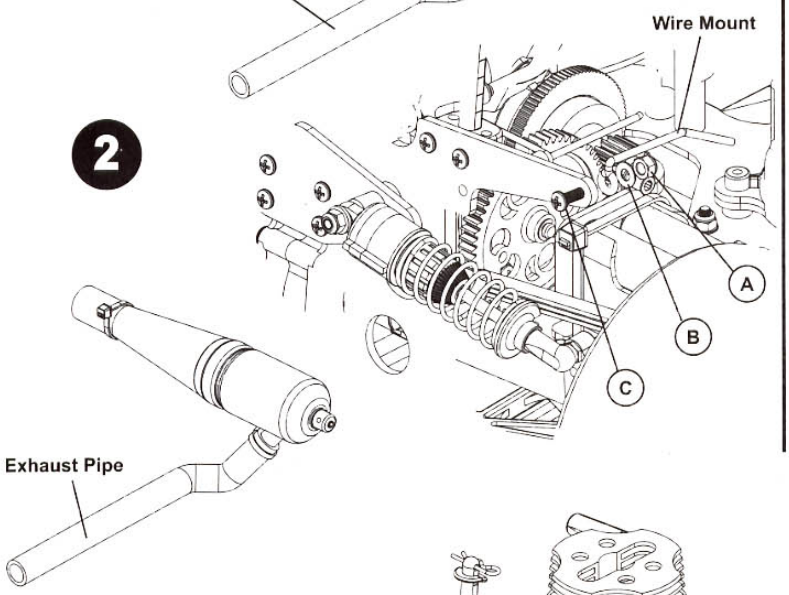
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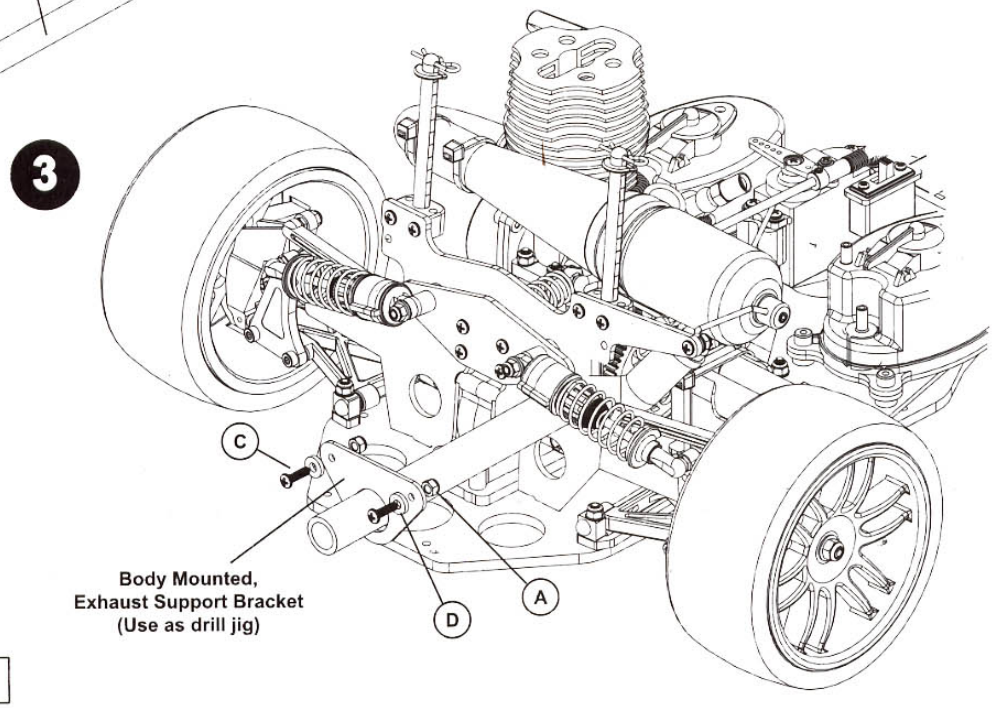
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TUNED PIPE INSTALLATION





A	X3	M3 Nyloc Nut
B	X1	M3 Steel Washer
C	X3	M3 x 10 Pan Head
D	X4	1.6 Nylon Washer



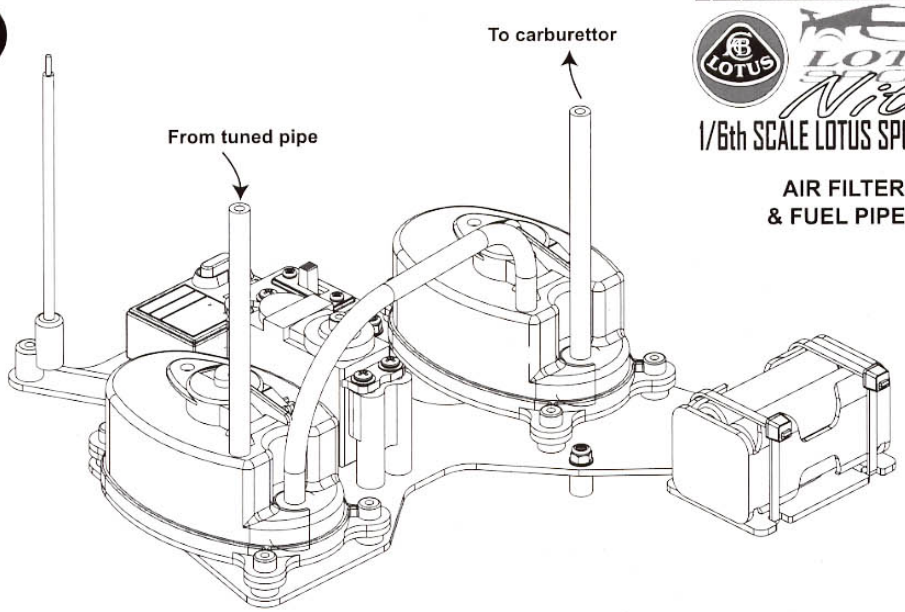
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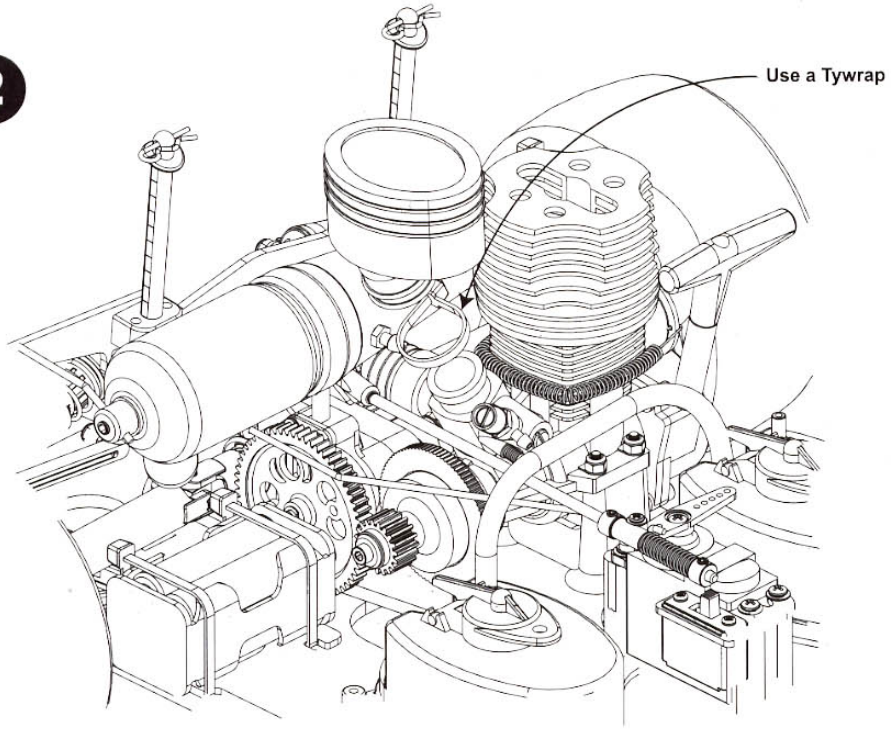
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AIR FILTER & FUEL PIPES

1



2



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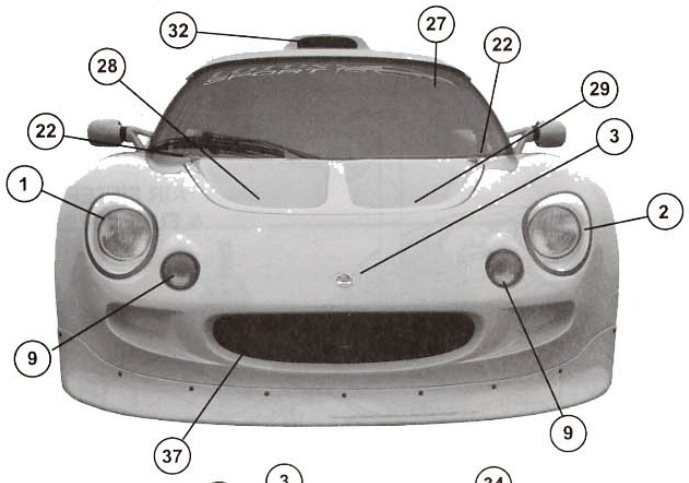
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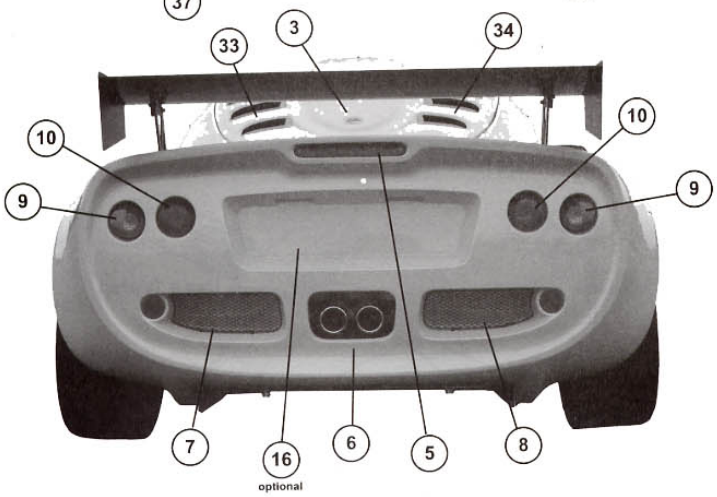
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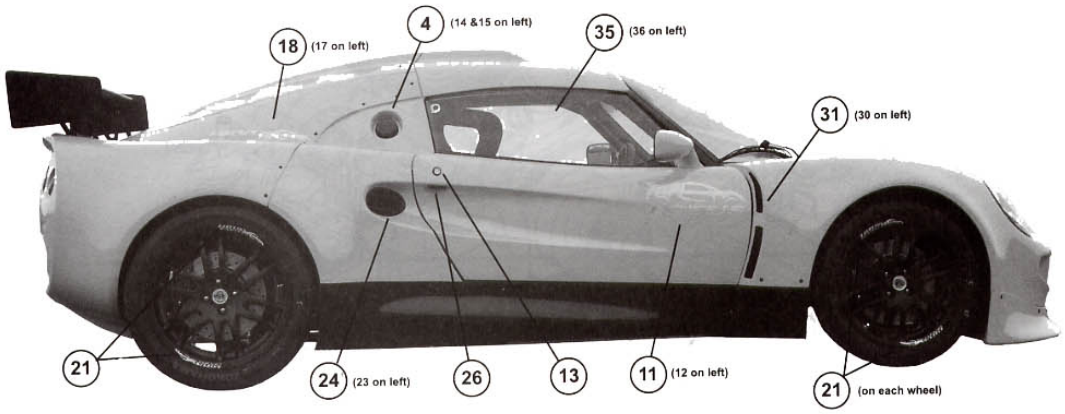
FITTING DECALS

Ensure body is free of dirt and grease. Use a sharp knife or scissors to cut the appropriate decal from the sheet.
When sticking large decals (e.g. front window) you may find it easier to coat body area with warm, slightly soapy water. This enables easy positioning before applying decal, spread excess water from the centre out.

For more detailed pictures of decal position, see box lid.







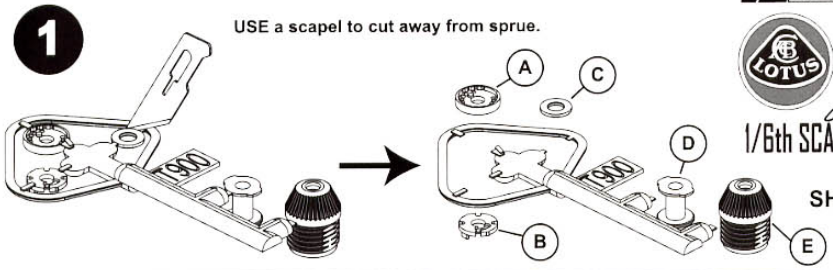
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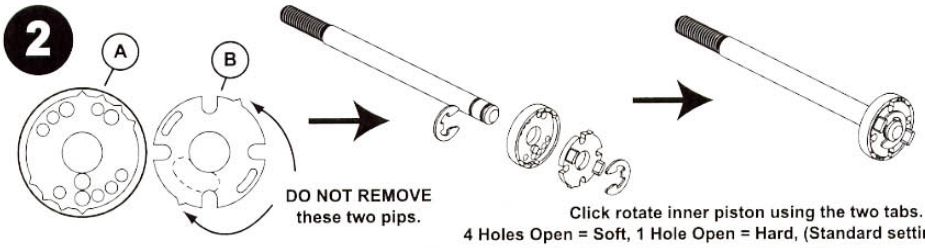
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SHOCK ASSEMBLY

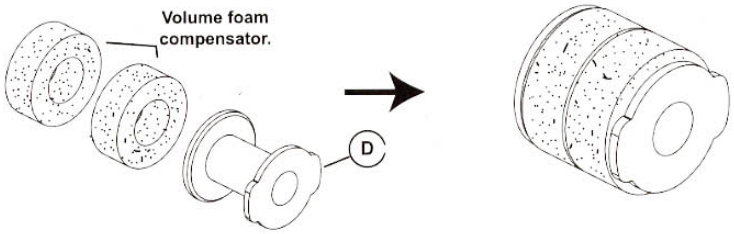
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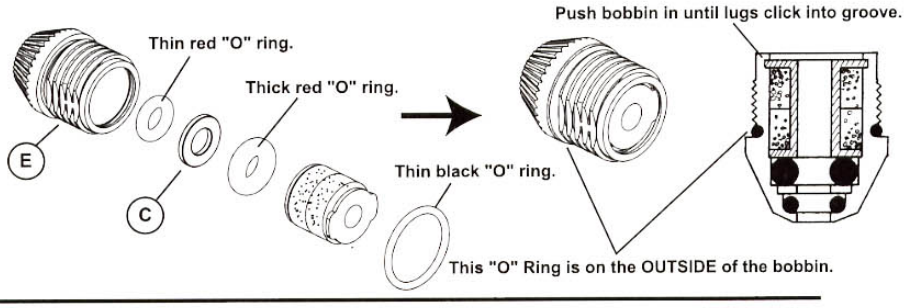
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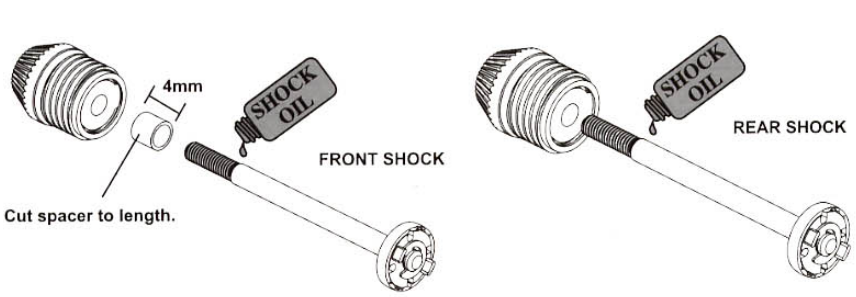
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4



5



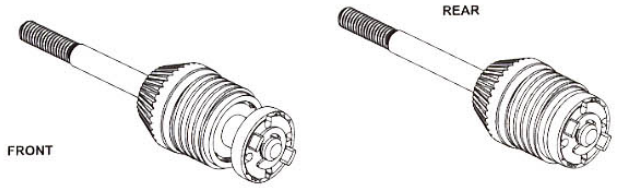
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SHOCK ASSEMBLY

6



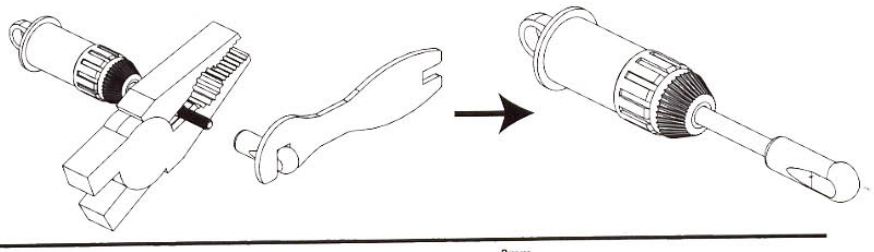
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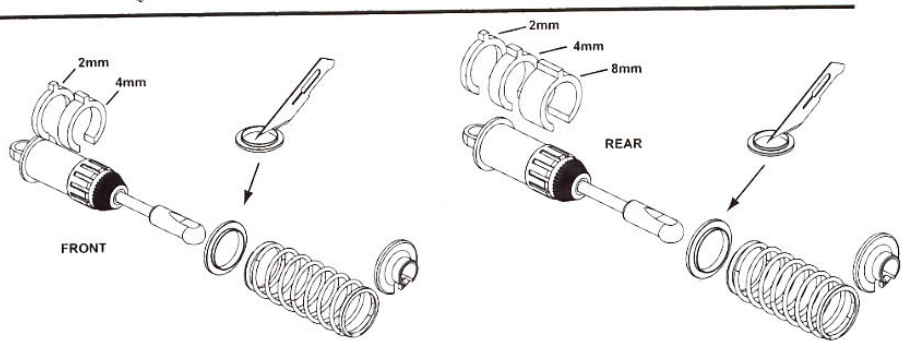
Fill body with oil (to the bottom of the thread)

USE 70 Weight Oil as standard.

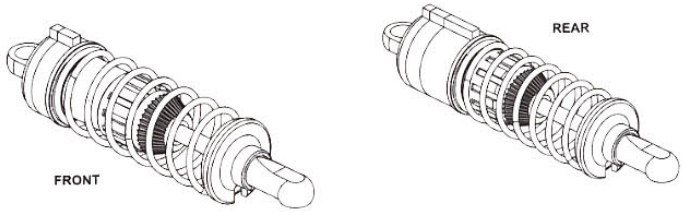
8



9



10



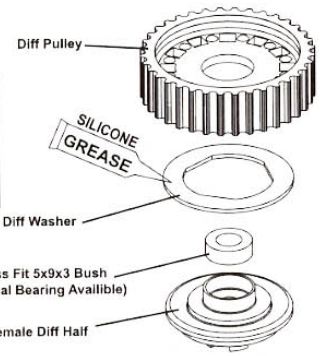
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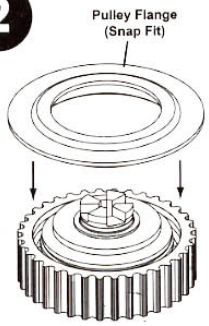
DIFFERENTIAL BUILD AND SETTINGS

1

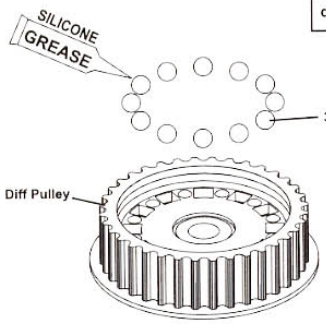


ONLY USE SILICONE GREASE Axle grease will destroy diff action.

2

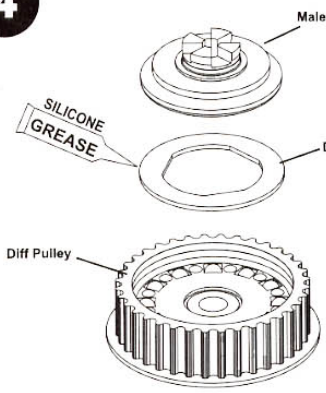


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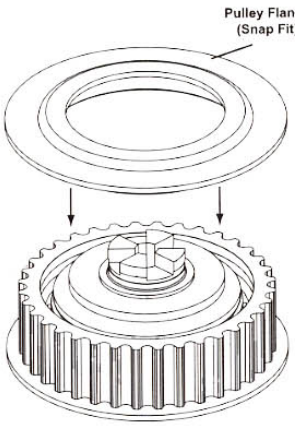
ONLY USE SILICONE GREASE Axle grease will destroy diff action.

4

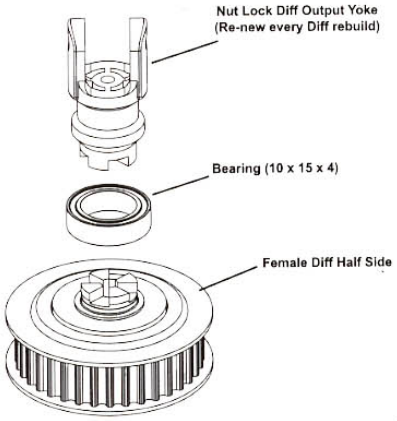


ONLY USE SILICONE GREASE Axle grease will destroy diff action.

5



6



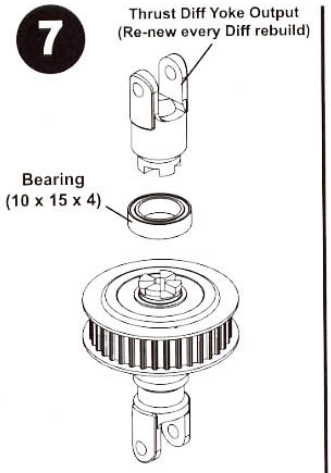
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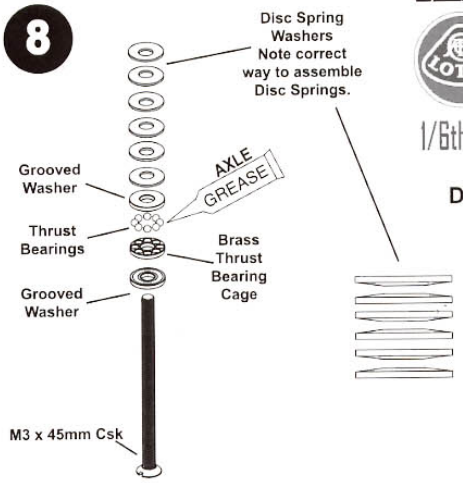
1/6th SCALE LOTUS SPORT ELISE

DIFFERENTIAL BUILD AND SETTINGS

7

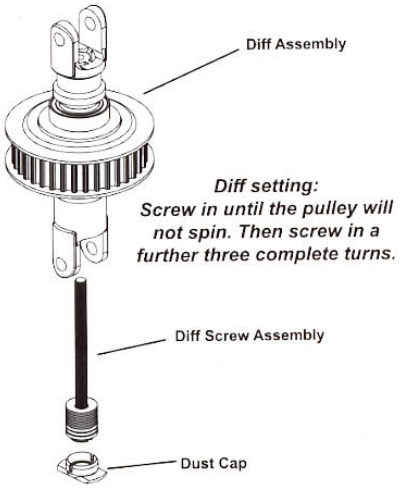


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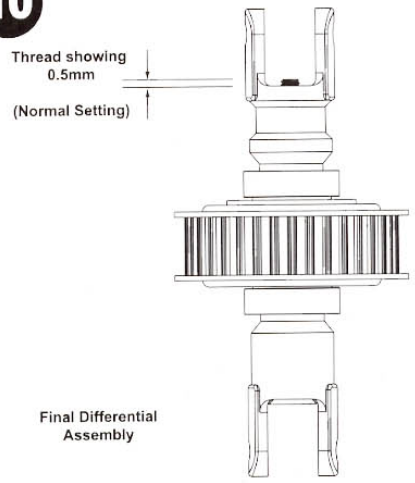
ONLY USE AXLE GREASE

9



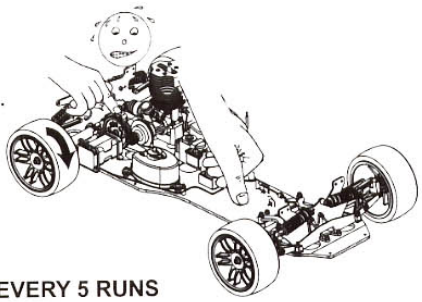
Diff setting:
Screw in until the pulley will not spin. Then screw in a further three complete turns.

10



DIFFERENTIAL CHECK

1. Hold the car down so that the chassis touches the ground.
2. Turn the spur gear and at least one rear wheel must turn.
3. GEAR MUST NOT TURN WITHOUT A WHEEL TURNING.
4. See section 9 & 10 for diff setting.
5. Only tighten diff by 1/4 of a turn at a time.



IMPORTANT TEST DIFF PRIOR TO USE AFTER EVERY 5 RUNS

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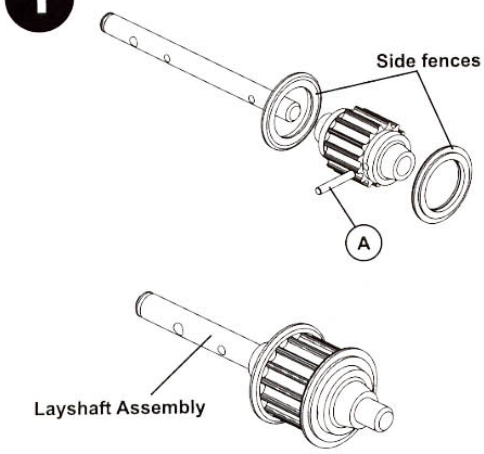
TRANSMISSION ASSEMBLY

A — X1 — 1.5mm x 9.8mm Needle Roller

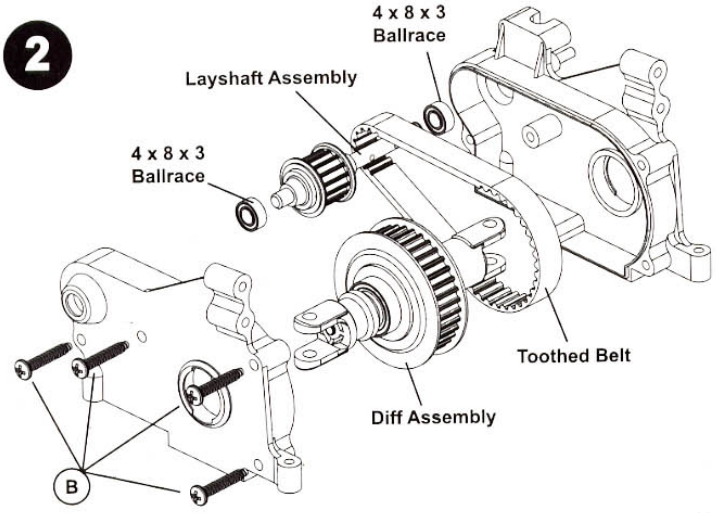
B — X4 — No4 5/8 Pan Head

C — X1 — 1.5mm x 7.8mm Needle Roller

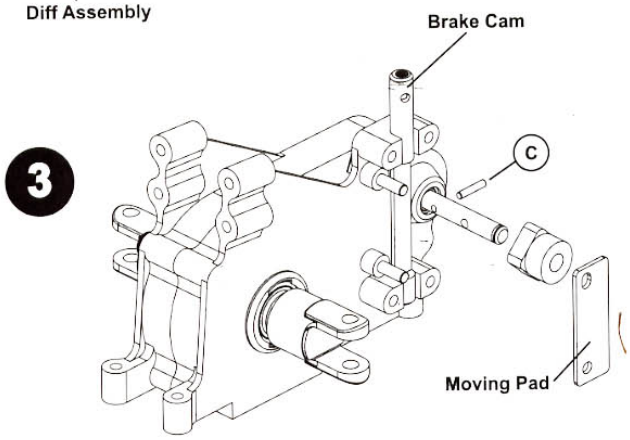
1



2



3



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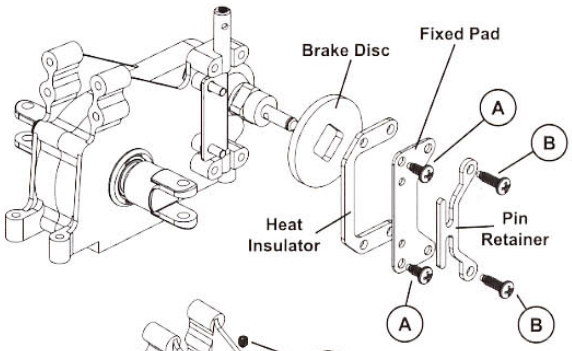
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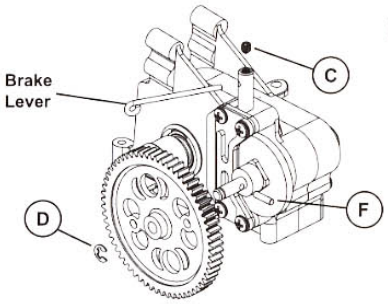
TRANSMISSION ASSEMBLY

A	X2	No4 1/4 Pan Head
B	X2	No4 3/8 Pan Head
C	X1	M3 x 3 Grub Screw
D	X1	"E" Clip
E	X4	Small "E" Clip
F	X1	2mm x 7.8mm Needle Roller

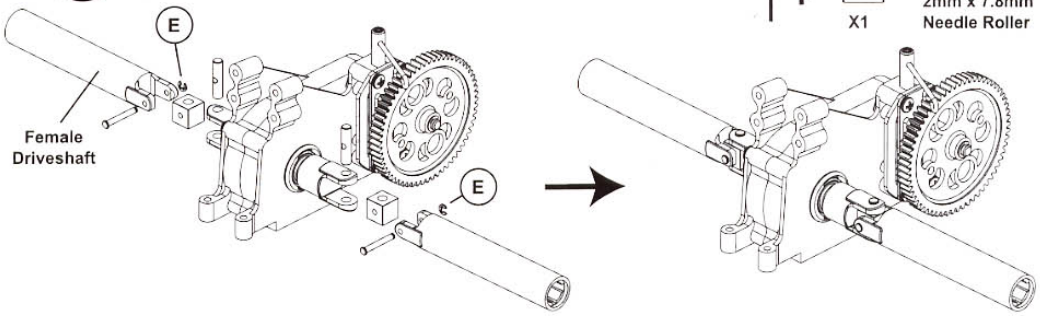
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5

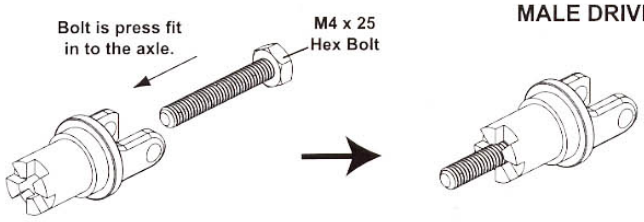


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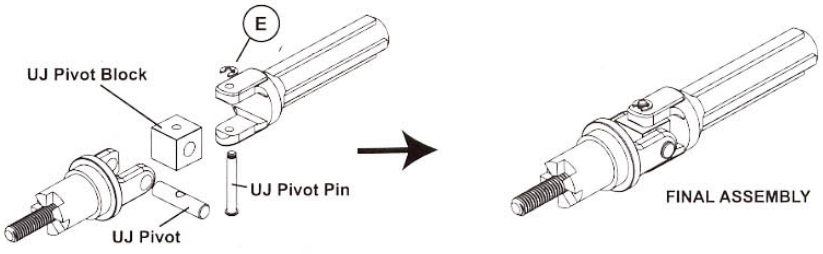


MALE DRIVESHAFT ASSEMBLY

1



2



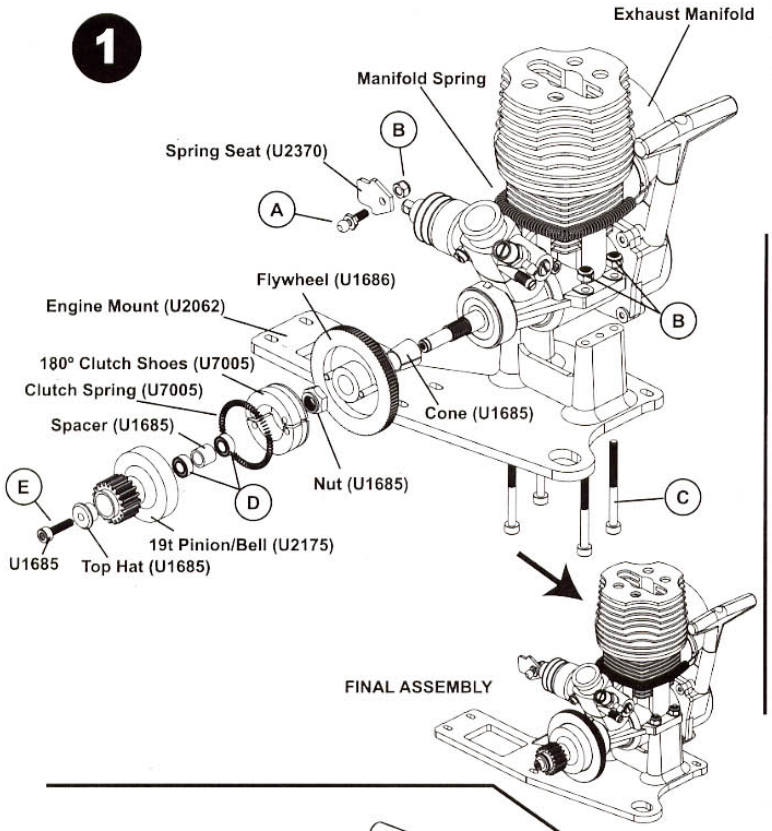
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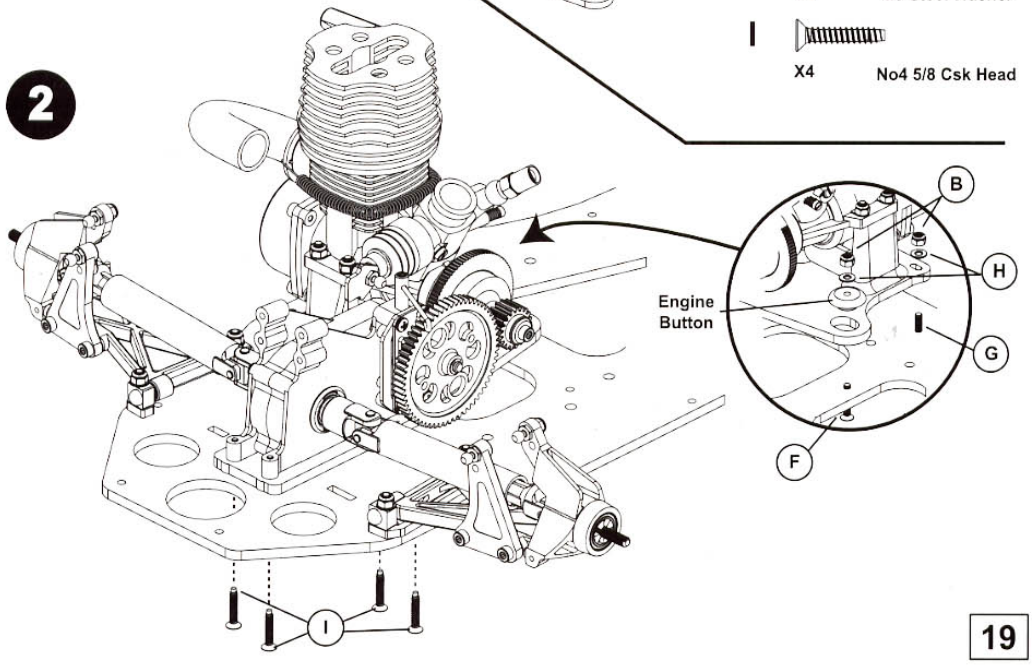
ENGINE INSTALLATION

1



A	X1	Ball Stud Long M3
B	X7	M3 Nyloc Nut
C	X4	M3 x 35 Cap Head
D	X2	5 x 9 x 3 BallRace
E	X1	M2.6 x 12mm CapHead
F	X1	M3 x 16 Csk Head
G	X1	M3 x 12 Csk Head
H	X2	M3 Steel Washer
I	X4	No4 5/8 Csk Head

2



4

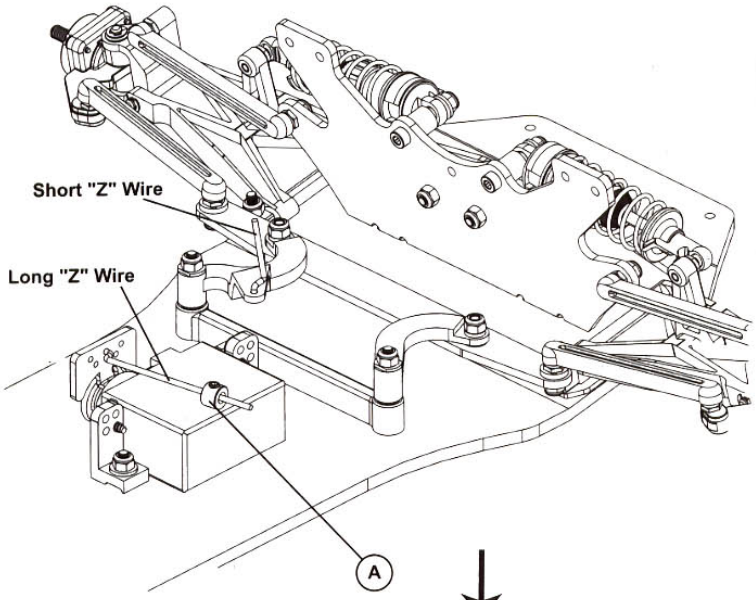
Schumacher

LOTUS SPORT Nitro

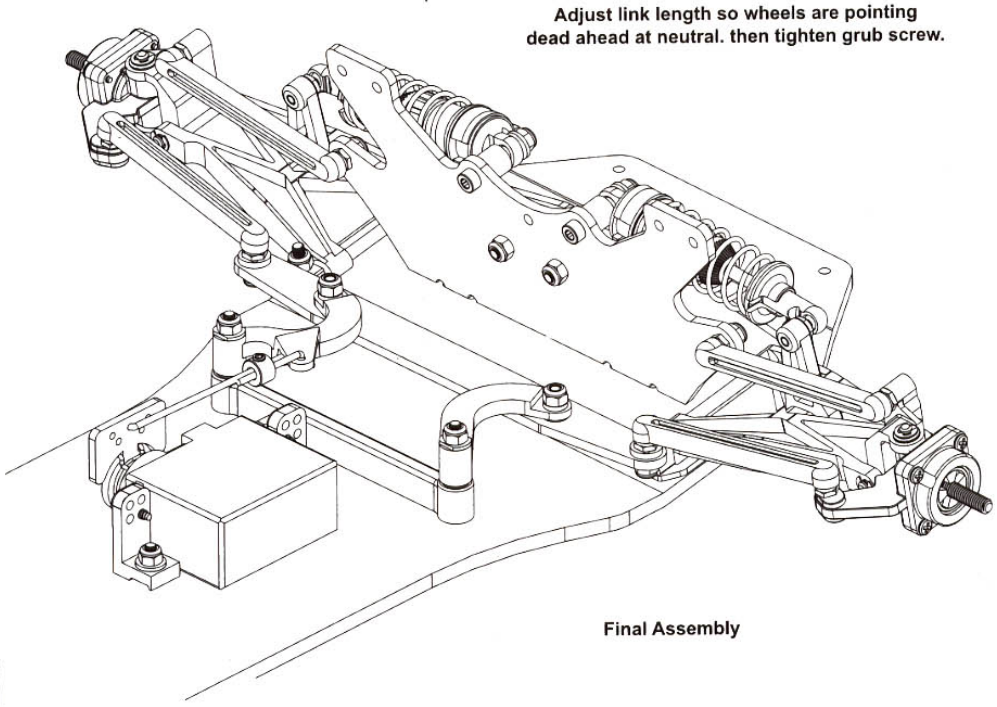
1/6th SCALE LOTUS SPORT ELISE

STEERING SERVO INSTALLATION

A X1 Collar & Grub Screw



Adjust link length so wheels are pointing dead ahead at neutral. then tighten grub screw.



Final Assembly

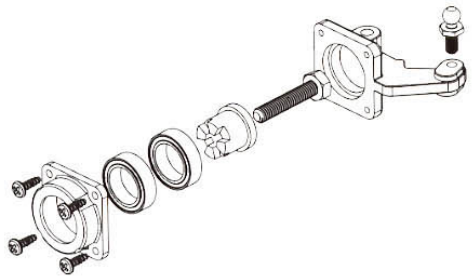
Schumacher

LOTUS SPORT Nitro

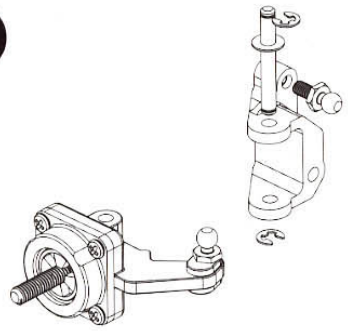
1/6th SCALE LOTUS SPORT ELISE

FRONT SUSPENSION ASSEMBLY

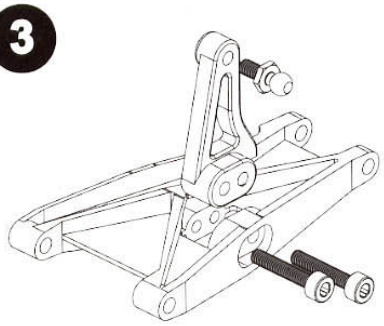
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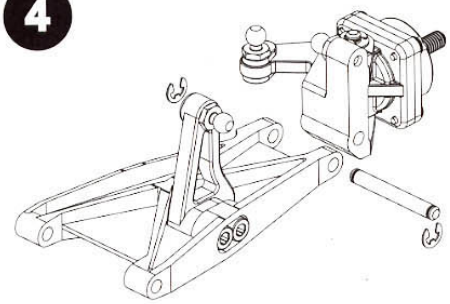
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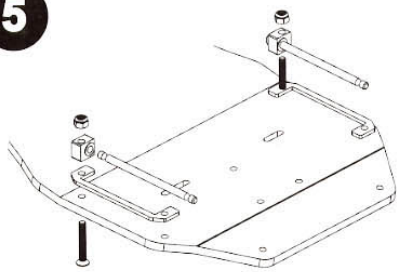
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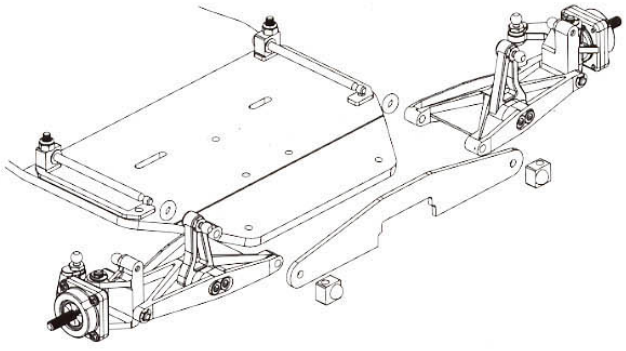
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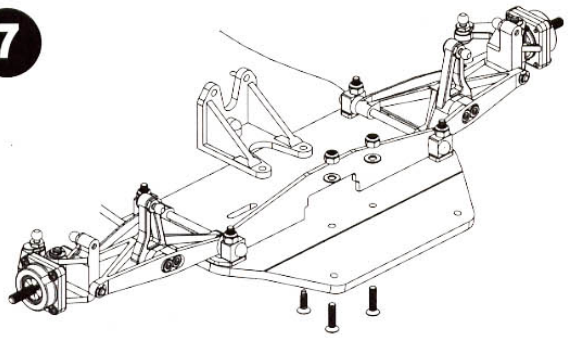
Schumacher

LOTUS SPORT Nitro

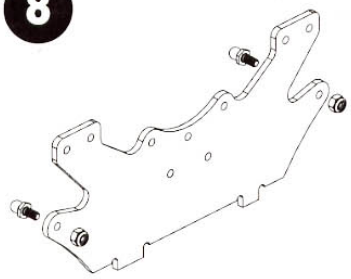
1/6th SCALE LOTUS SPORT ELISE

FRONT SUSPENSION ASSEMBLY

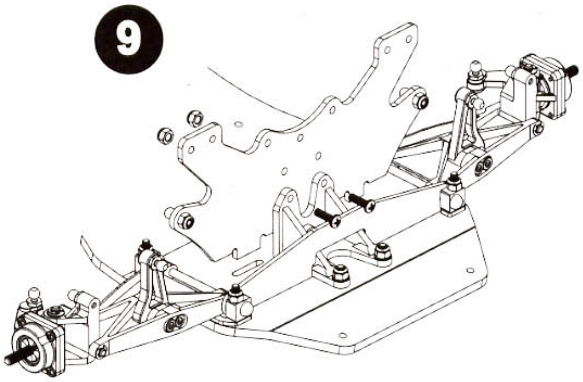
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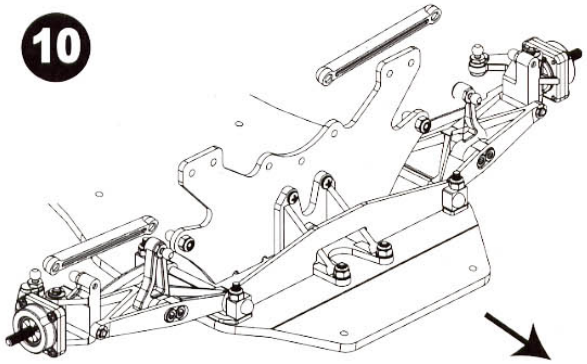
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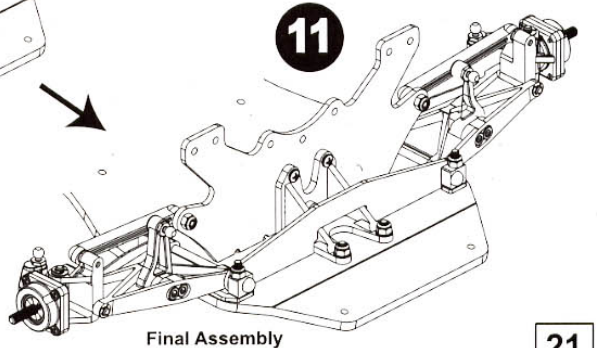
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10



11



Final Assembly

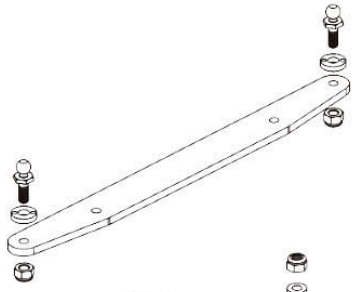
Schumacher

LOTUS SPORT Nitro

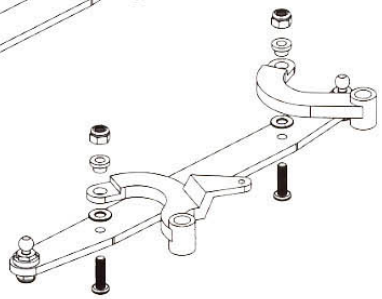
1/6th SCALE LOTUS SPORT ELISE

STEERING LINKAGE

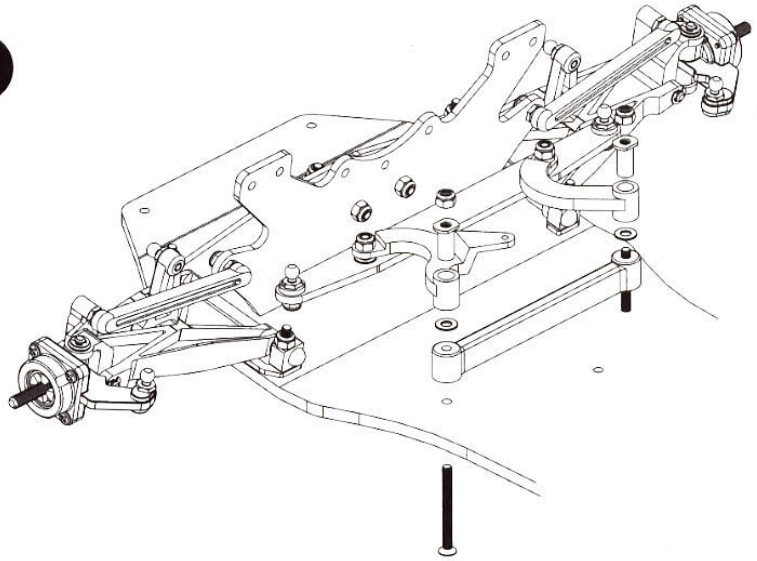
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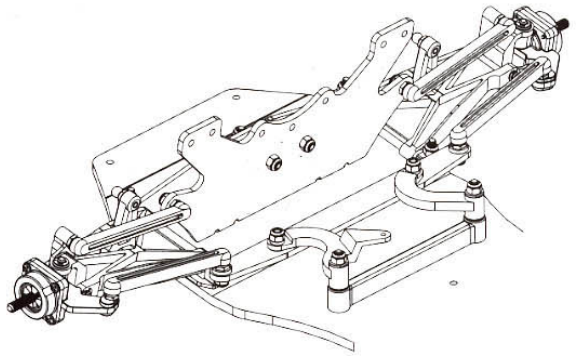
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3



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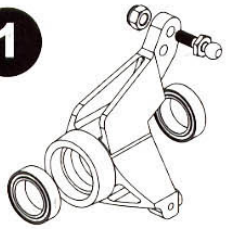
Schumacher

LOTUS SPORT Nitro

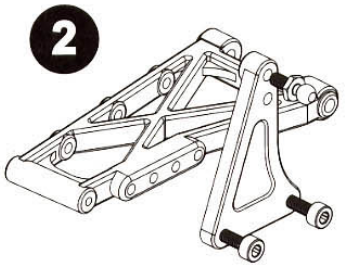
1/6th SCALE LOTUS SPORT ELISE

REAR SUSPENSION

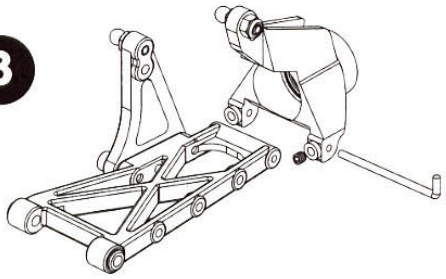
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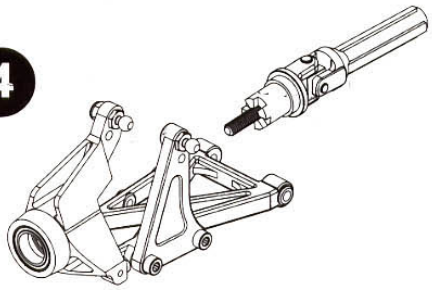
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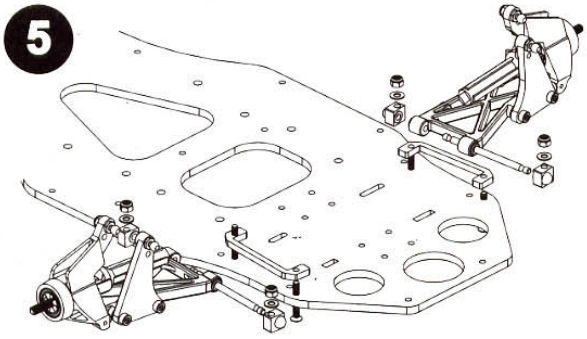
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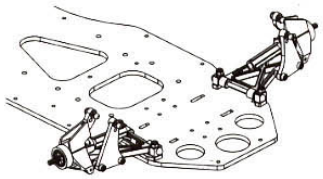


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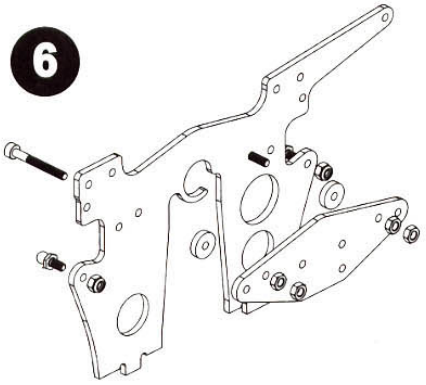


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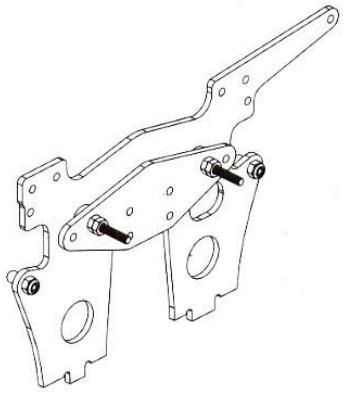




6



7



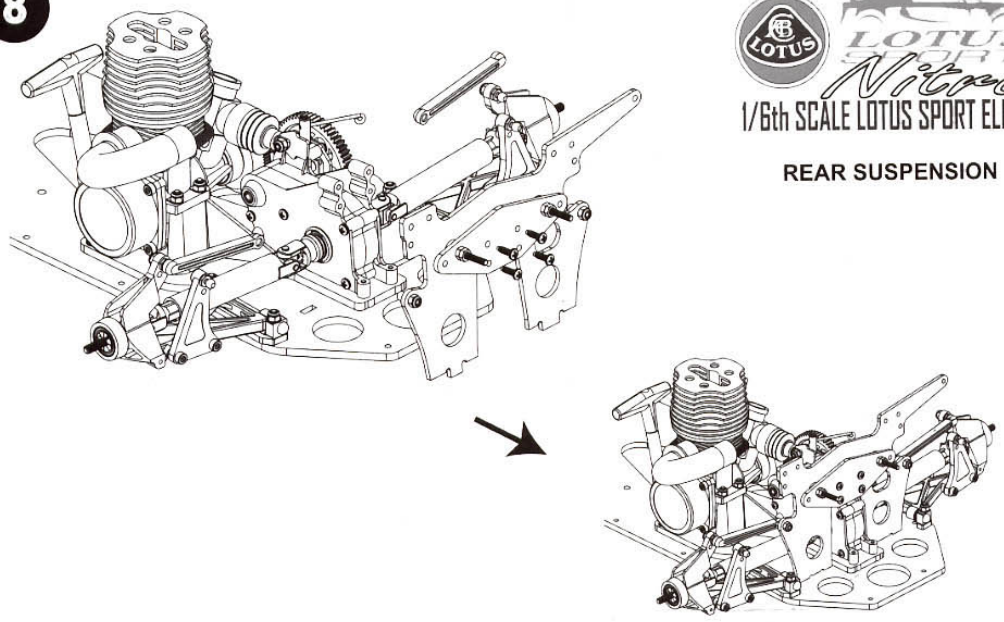
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Schumacher

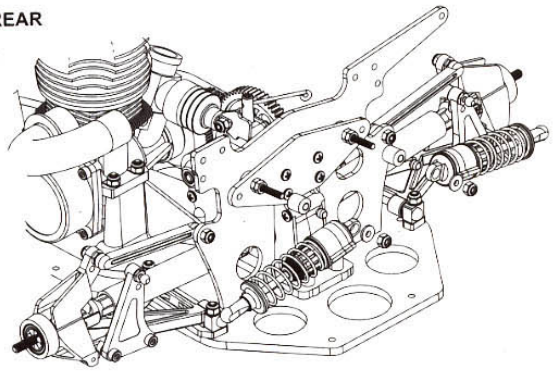
LOTUS SPORT Nitro

1/6th SCALE LOTUS SPORT ELISE

REAR SUSPENSION

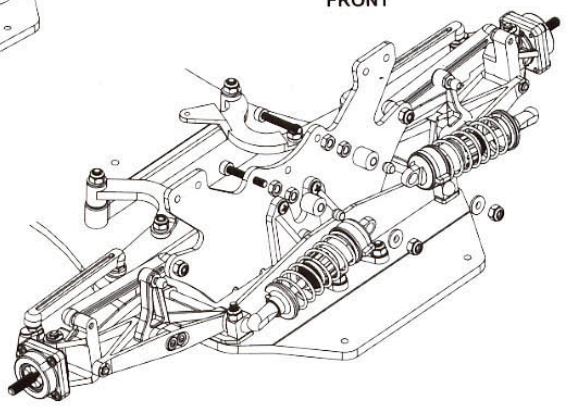


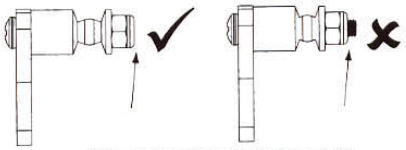
REAR



SHOCK FITTING

FRONT





DO NOT OVER TIGHTEN

Schumacher

LOTUS SPORT Nitro

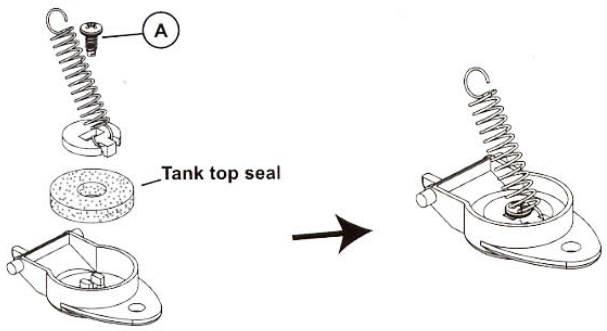
1/6th SCALE LOTUS SPORT ELISE

FUEL TANK ASSEMBLY

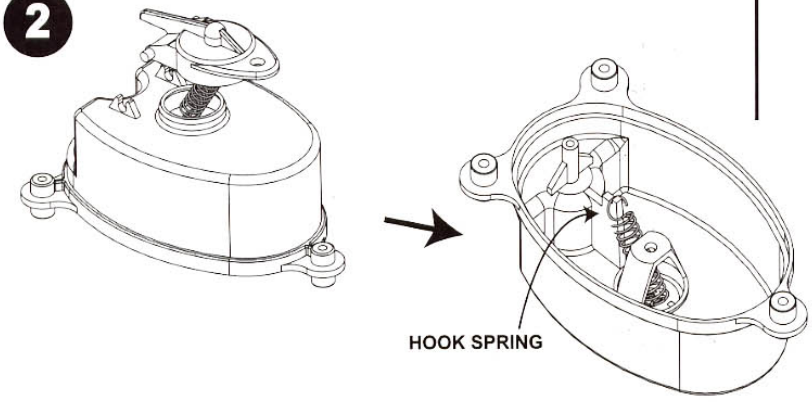
A X1 No4 1/4 Pan Head

B X1 No4 3/8 Pan Head

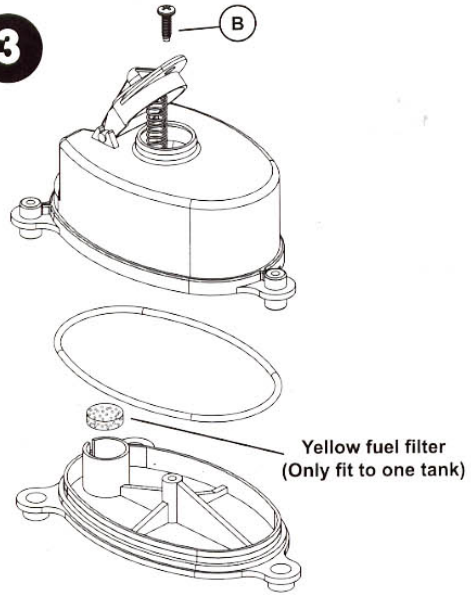
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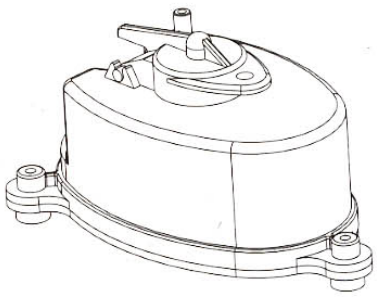


2



3





FINAL ASSEMBLY
MAKE TWO

Schumacher

LOTUS SPORT Nitro

1/6th SCALE LOTUS SPORT ELISE

RADIO PLATE ASSEMBLY

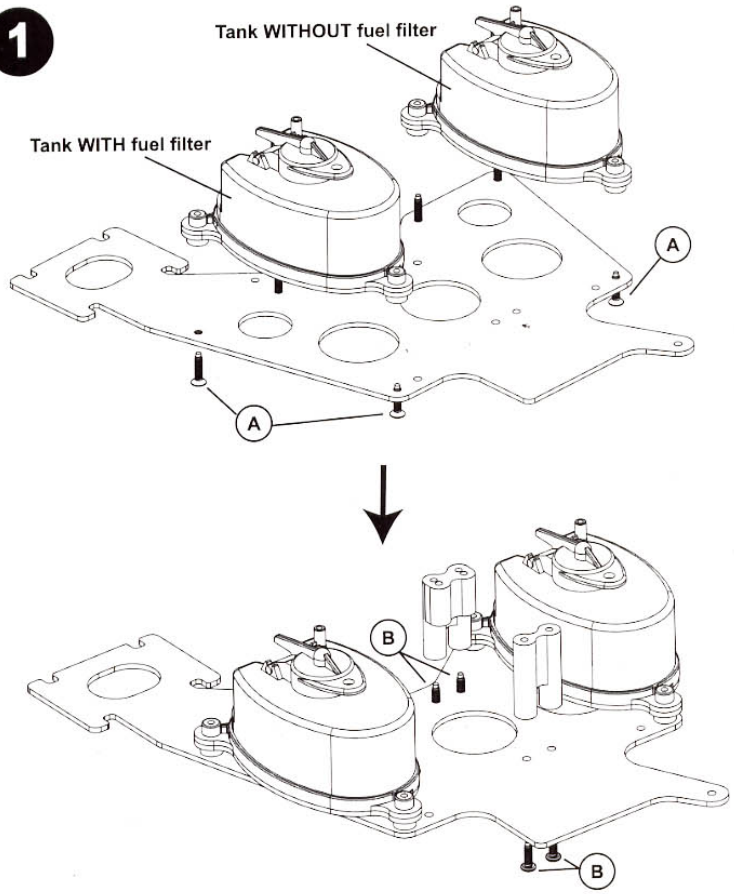
A X6 No4 1/2 Csk Head

B X6 No4 3/8 Pan Head

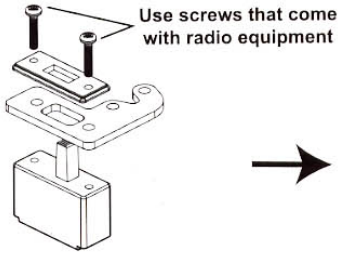
C X2 No4 1/2 Pan Head

D X4 M3 Steel Washer

1



2



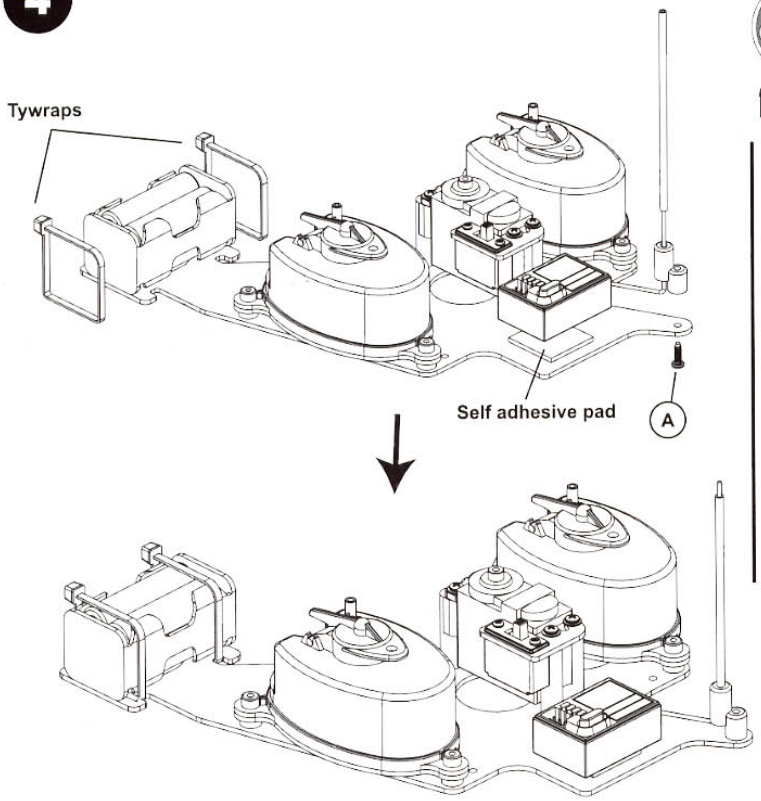
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Schumacher

LOTUS SPORT Nitro

1/6th SCALE LOTUS SPORT ELISE

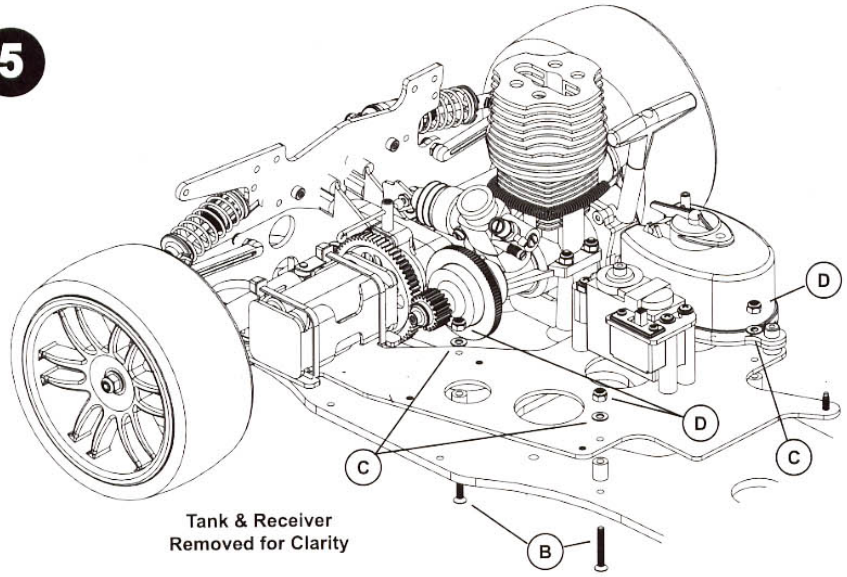
4



MOTOR INSTALLATION

A	X1	No4 3/8 Pan Head
B	X3	M3 x 20 Csk Head
C	X3	M3 Steel Washer
D	X3	M3 Nyloc Nut

5



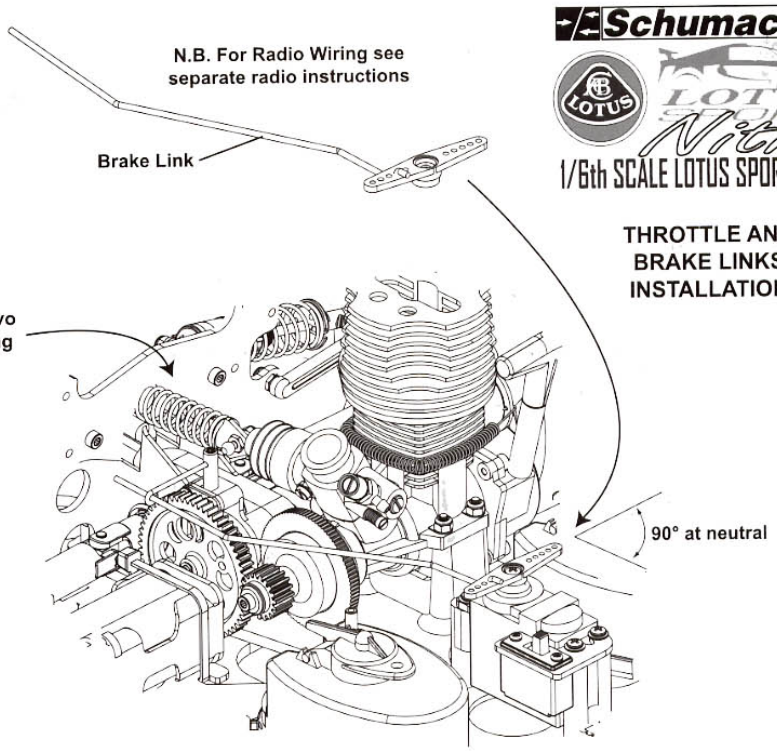
Schumacher

LOTUS SPORT Nitro

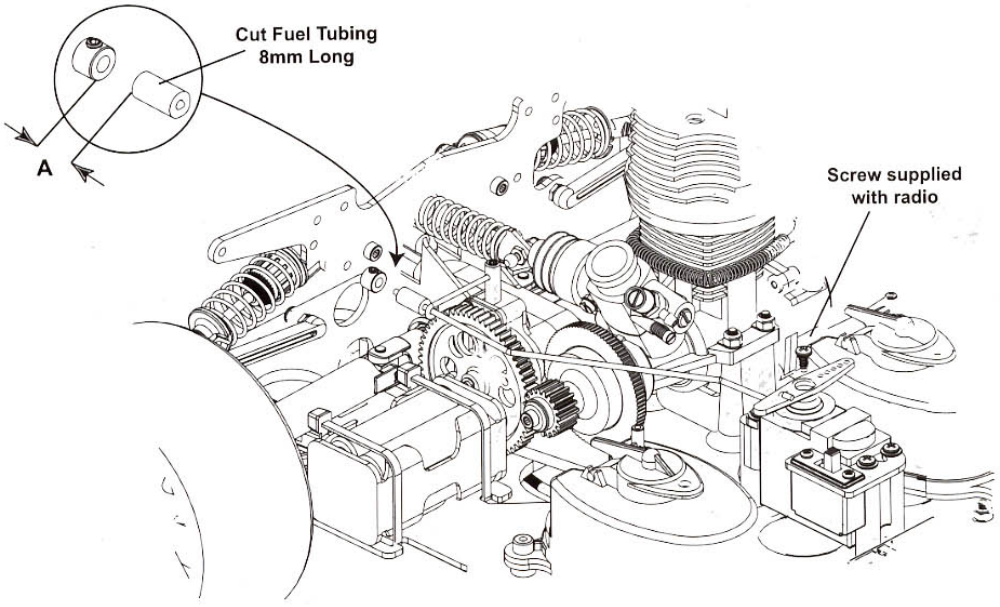
1/6th SCALE LOTUS SPORT ELISE

THROTTLE AND BRAKE LINKS INSTALLATION

1



2



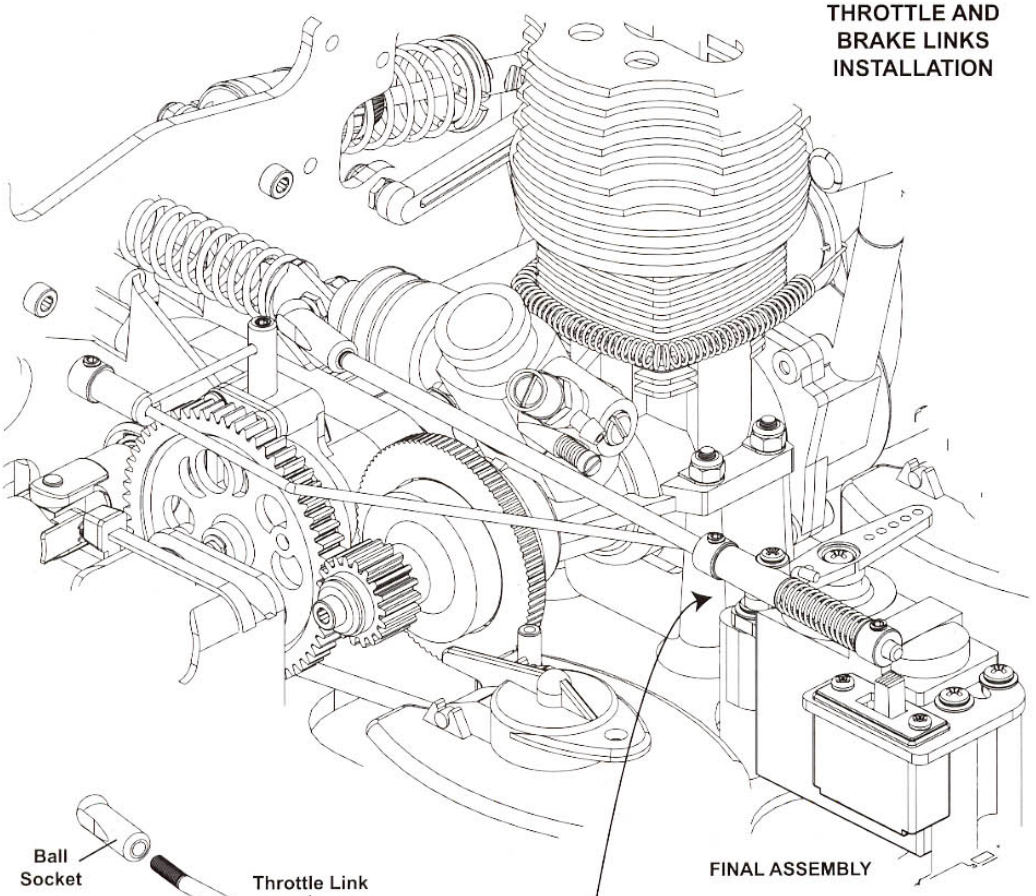
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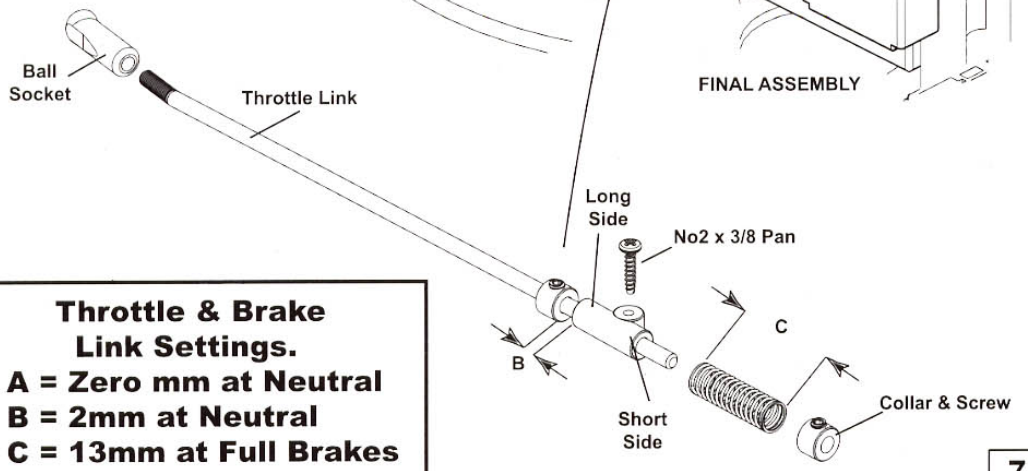
LOTUS SPORT Nitro

1/6th SCALE LOTUS SPORT ELISE

3

THROTTLE AND BRAKE LINKS INSTALLATION





Throttle & Brake Link Settings.
A = Zero mm at Neutral
B = 2mm at Neutral
C = 13mm at Full Brakes

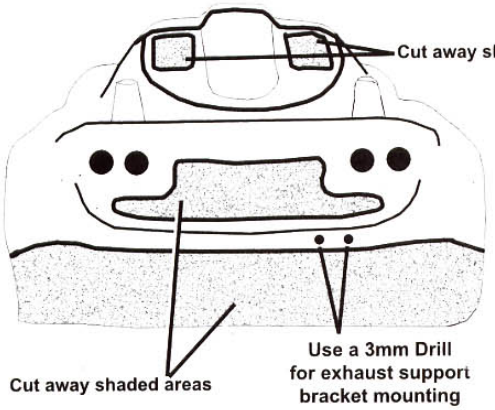
WARNING: Take great care when cutting out bodyshell.

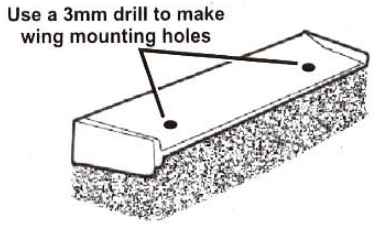
Schumacher

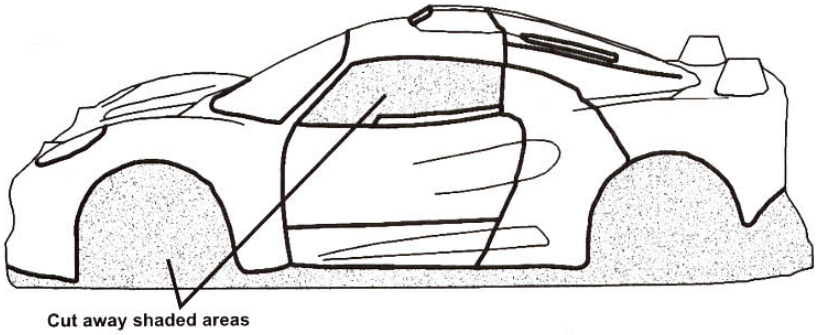
LOTUS SPORT Nitro

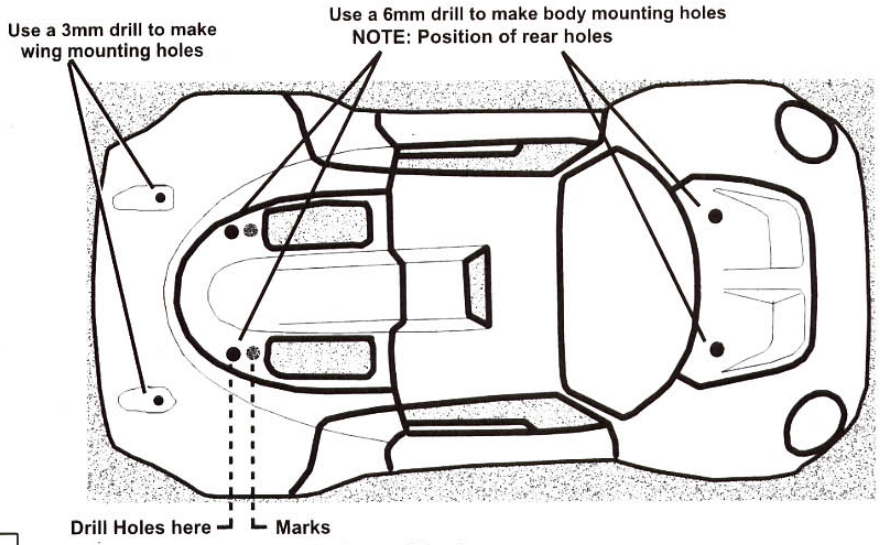
1/6th SCALE LOTUS SPORT ELISE

CUTTING & MOUNTING OF BODYSHELL









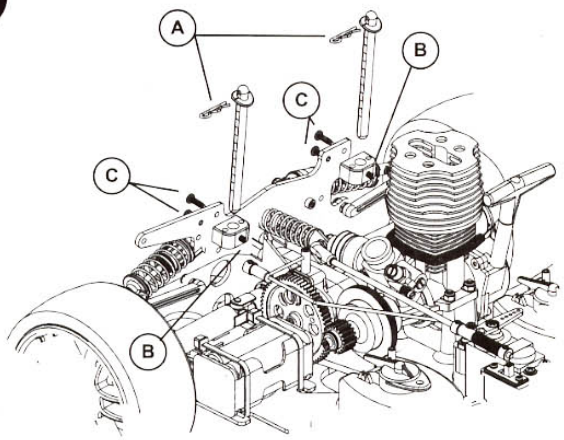
N.B. 9mm Rearwards from Marks

Schumacher

LOTUS SPORT Nitro

1/6th SCALE LOTUS SPORT ELISE

1



BODY POST MOUNTING

A 

X4 "R" Clip

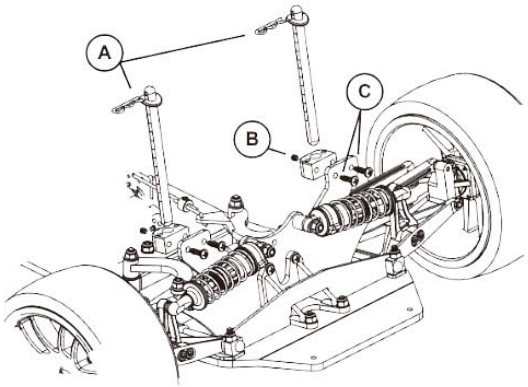
B 

X4 M3 x 3 Grub Screw

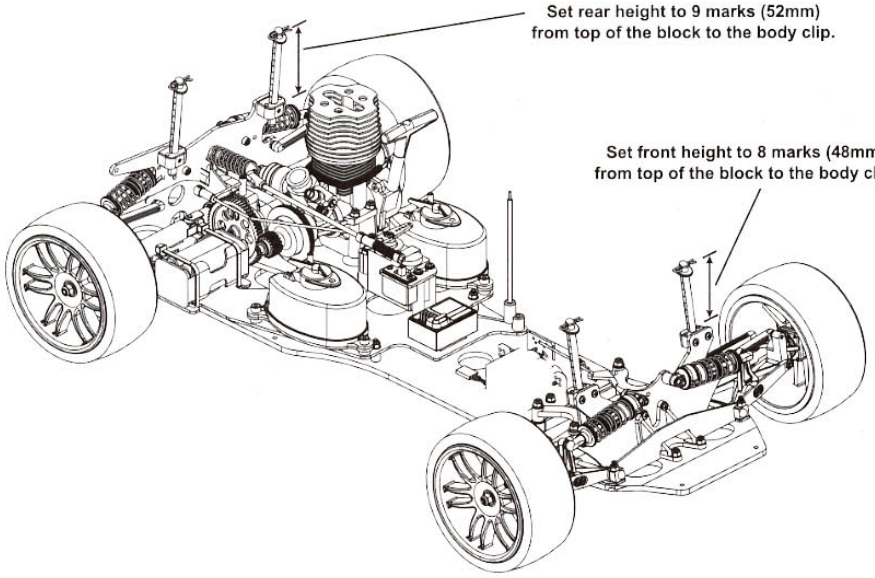
C 

X8 No4 3/8 Pan Head

2



3



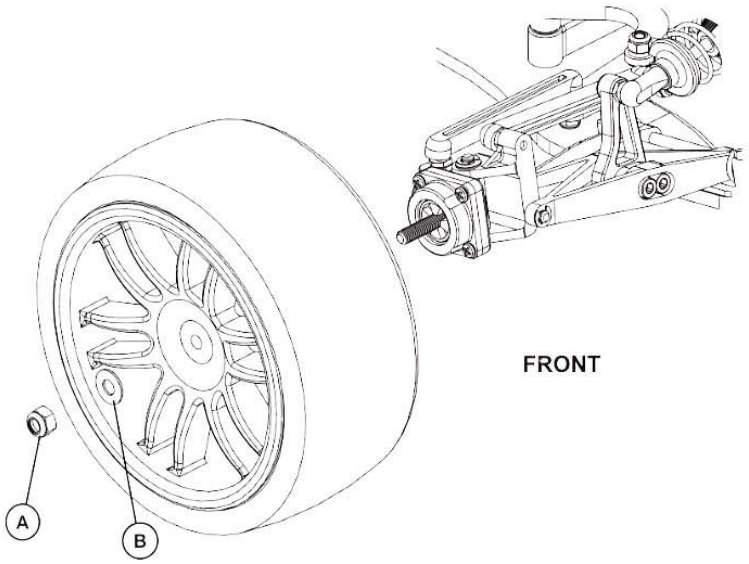
Schumacher

LOTUS SPORT Nitro

1/6th SCALE LOTUS SPORT ELISE

1

N.B. Ensure drive "castle" is located fully before tightening nut.



FRONT

FITTING OF WHEELS

A	X4	M4 Nyloc Nut
B	X4	M4 Steel Washer

2

REAR

