

BEFORE YOU START

The NT18 is a high-quality, 1/18-scale nitro touring car intended for persons aged 16 years and older with previous experience building and operating RC model racing cars. This is not a toy; it is a precision car model. This model racing car is not intended for use by beginners, inexperienced customers, or by children without direct supervision of a responsible, knowledgeable adult. If you do not fulfill these requirements, please return the kit in unused and unassembled form back to the shop where you have purchased it. Before building and operating your NT18, YOU MUST read through all of the operating instructions and instruction manual and fully

CUSTOMER SUPPORT

We have made every effort to make these instructions as easy to understand as possible. However, if you have any difficulties, problems, or questions, please do not hesitate to contact the XRAY support team at info@teamxray.com. Also, please visit our Web site at www.teamxray.com to find the latest updates, set-up information, option parts, and many other goodies. We pride ourselves on taking excellent care of our customers.

You can join thousands of XRAY fans and enthusiasts in our online community at:
www.teamxray.com

Failure to follow these instructions will be considered as abuse and/or neglect.

SAFETY PRECAUTIONS

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

When building, using and/or operating this model always wear protective glasses and gloves.

Take appropriate safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation! Please read the instruction manual before building and operating this model and follow all safety precautions. Always keep the instruction manual at hand for quick reference, even after completing the assembly. Use only genuine and original authentic XRAY parts for maximum performance. Using any third party parts on this model will void guaranty immediately.

In line with our policy of continuous product development, the exact specifications of the kit may vary. In the unlikely event of any problems with your new kit, you should contact the model shop where you purchased it, quoting the part number. We do reserve all rights to change any specification without prior notice. All rights reserved.

understand them to get the maximum enjoyment and prevent unnecessary damage. Read carefully and fully understand the instructions before beginning assembly.

Make sure you review this entire manual, the included engine instructions, and examine all details carefully. If for some reason you decide the NT18 is not what you wanted or expected, do not continue any further. Your hobby dealer cannot accept your NT18 kit for return or exchange after it has been partially or fully assembled.

Contents of the box may differ from pictures. In line with our policy of continuous product development, the exact specifications of the kit may vary without prior notice.

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IMPORTANT NOTES - GENERAL

- This product is not suitable for children under 16 years of age without the direct supervision of a responsible and knowledgeable adult.
- Carefully read all manufacturers warnings and cautions for any parts used in the construction and use of your model.
- Assemble this kit only in places away from the reach of very small children.
- First-time builders and users should seek advice from people who have building experience in order to assemble the model correctly and to allow the model to reach its performance potential.
- Exercise care when using tools and sharp instruments.
- Take care when building, as some parts may have sharp edges.
- Keep small parts out of reach of small children. Children must not be allowed to put any parts in their mouth, or pull vinyl bag over their head.
- Read and follow instructions supplied with paints and/or cement, if used (not included in kit).
- Immediately after using your model, do NOT touch equipment on the model such as the engine and muffler, because they generate high temperatures. You may seriously burn yourself seriously touching them.
- Follow the operating instructions for the radio equipment at all times.
- Do not put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury as your finger, hair, clothes, etc. may get caught.
- Be sure that your operating frequency is clear before turning on or running your model, and never share the same frequency with somebody else at the same time. Ensure that others are aware of the operating frequency you are using and when you are using it.
- Use a transmitter designed for ground use with RC cars. Make sure that no one else is using the same frequency as yours in your operating area. Using the same frequency at the same time, whether it is driving, flying or sailing, can cause loss of control of the RC model, resulting in a serious accident.
- Always turn on your transmitter before you turn on the receiver in the car. Always turn off the receiver before turning your transmitter off.



IMPORTANT NOTES - ELECTRICAL

- Insulate any exposed electrical wiring (using heat shrink tubing or electrical tape) to prevent dangerous short circuits. Take maximum care in wiring, connecting and insulating cables. Make sure cables are always connected securely. Check connectors for if they become loose. And if so, reconnect them securely. Never use R/C models with damaged wires. A damaged wire is extremely dangerous, and can cause short-circuits resulting in fire. Please have wires repaired at your local hobby shop.
- Low battery power will result in loss of control. Loss of control can occur due to a weak battery in either the transmitter or the receiver. Weak running battery may also result in an out of control car if your car's receiver power is supplied by the running battery. Stop operation immediately if the car starts to slow down.

- Keep the wheels of the model off the ground when checking the operation of the radio equipment.
- Disconnect the battery pack before storing your model.
- When learning to operate your model, go to an area that has no obstacles that can damage your model if your model suffers a collision.
- Remove any sand, mud, dirt, grass or water before putting your model away.
- If the model behaves strangely, immediately stop the model, check and clear the problem.
- To prevent any serious personal injury and/or damage to property, be responsible when operating all remote controlled models.
- The model car is not intended for use on public places and roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
- Because the model car is controlled by radio, it is subject to radio interference from many sources that are beyond your control. Since radio interference can cause momentary loss of control, always allow a safety margin in all directions around the model in order to prevent collisions.
- Do not use your model:
 - Near real cars, animals, or people that are unaware that an RC car is being driven.
 - In places where children and people gather
 - In residential districts and parks
 - In limited indoor spaces
 - In wet conditions
 - In the street
 - In areas where loud noises can disturb others, such as hospitals and residential areas.
 - At night or anytime your line of sight to the model may be obstructed or impaired in any way.

To prevent any serious personal injury and/or damage to property, please be responsible when operating all remote controlled models.

- When not using RC model, always disconnect and remove battery.
- Do not disassemble battery or cut battery cables. If the running battery short-circuits, approximately 300W of electricity can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries and follow the instructions correctly. Over-charging, incorrect charging, or using inferior chargers can cause the batteries to become dangerously hot. Recharge battery when necessary. Continual recharging may damage battery and, in the worst case, could build up heat leading to fire. If battery becomes extremely hot during recharging, please ask your local hobby shop for check and/or repair and/or replacement.
- Regularly check the charger for potential hazards such as damage to the cable, plug, casing or other defects. Ensure that any damage is rectified before using the charger

again. Modifying the charger may cause short-circuit or overcharging leading to a serious accident. Therefore do not modify the charger.

- Always unplug charger when recharging is finished.
- Do not recharge battery while battery is still warm. After use, battery retains heat. Wait until it cools down before charging.



IMPORTANT NOTES - NITRO ENGINES

- Always test the brakes and the throttle before starting your engine to avoid losing control of the model.
- Make sure the air filter is clean and oiled.
- Never run your engine without an air filter. Your engine can be seriously damaged if dirt and debris get inside the engine.
- For proper engine break-in, please refer to the manual that came with the engine.
- Do not run near open flames or smoke while running your model or while handling fuel.
- Some parts will be hot after operation. Do not touch the exhaust or the engine until they have cooled. These parts may reach 275°F during operation!



IMPORTANT NOTES - NITRO FUEL

- Handle fuel only outdoors. Never handle nitro fuel indoors, or mix nitro fuel in a place where ventilation is bad.
- Only use nitro fuel for R/C models. Do not use gasoline or kerosene in R/C models as it may cause a fire or explosion, and ruin your engine.
- Nitro fuel is highly inflammable, explosive, and poisonous. Never use fuel indoors or in places with open fires and sources of heat.
- Always keep the fuel container cap tightly shut.
- Always read the warning label on the fuel container for safety information.
- Nitro-powered model engines emit poisonous vapors and gasses. These vapors irritate eyes and can be highly dangerous to your health. We recommend wearing rubber or vinyl gloves to avoid direct contact with nitro fuel.

R/C & BUILDING TIPS

- Make sure all fasteners are properly tightened. Check them periodically.
- Make sure that chassis screws do not protrude from the chassis.
- For the best performance, it is very important that great care is taken to ensure the free movement of all parts.
- Clean all ball-bearings so they move very easily and freely.
- Tap or pre-thread the plastic parts when threading screws.
- Self-tapping screws cut threads into the parts when being tightened. Do not use excessive force when tightening the self-tapping screws because you may strip out the thread in the plastic. We recommended you stop tightening a screw when you feel some resistance.

- Do not allow any metal part to short circuit the receiver batteries or other electrical/electronic device on the model.
- Immediately stop running if your RC model gets wet as may cause short circuit.
- Please dispose of batteries responsibly. Never put batteries into fire.



FIRST AID











- Do not swallow nitro fuel or get it in your eyes. If this happens, immediate measures should be taken.
- If fuel is swallowed, immediately drink large quantities of water and induce vomiting. Consult a physician or poison control center immediately.
- If fuel gets into the eyes, rinse them well with water, and then consult a physician immediately.
- If fuel gets onto the skin, wash it with soap and water well.







- Nitro fuel for RC model cars is made of the combination of the methyl alcohol, castor or synthetic oil, nitro methane etc. The flammability and volatility of these elements is very high, so be very careful during handling and storage of nitro fuel.
- Keep nitro fuel away from open flame, sources of heat, direct sunlight, high temperatures, or near batteries.
- Store fuel in a cool, dry, dark, well-ventilated place, away from heating devices, open flames, direct sunlight, or batteries. Keep nitro fuel away from children.
- Do not leave the fuel in the carburetor or fuel tank when the model is not in use. There is danger that the fuel may leak out.
- Wipe up any spilled fuel with a cloth
- Be aware of spilled or leaking fuel. Fuel leaks can cause fires or explosions.
- Do not dispose of fuel or empty fuel containers in a fire. There is danger of explosion.

- Ask your local hobby shop for any advice.





Please support your local hobby shop. We at XRAY Model Racing Cars support all local hobby dealers. Therefore we ask you, if at all possible, to purchase XRAY products at your hobby dealer and give them your support like we do. If you have difficulty finding XRAY products, please check out www.teamxray.com to get advice, or contact us via email at info@teamxray.com, or contact the XRAY distributor in your country.

SYMBOLS USED

Part bags used	Assemble left and right sides the same way	Assemble in the specified order	Pay attention here	Pivot ball type used	Apply instant glue	Ensure smooth non-binding movement	Cut off shaded portion	True-to-scale diagram	Assemble as many times as specified (here twice)
									

Car orientation	Cut off remaining material	Cut off remaining material from all plastic parts.	Tighten screw gently	Self-tapping screws cut threads into the parts when being tightened. Excessive force may permanently damage parts when tightening screws. It is recommended to stop tightening when the part is attached or when some resistance is felt after the threaded portion enters the plastic.					
				CORRECT ✓		WRONG ✗		Overtightened	The threads are stripped.

INCLUDED

			
Engine + Muffler	Differential Assembly Tool	Phillips Screwdriver	1.5mm Allen Wrench

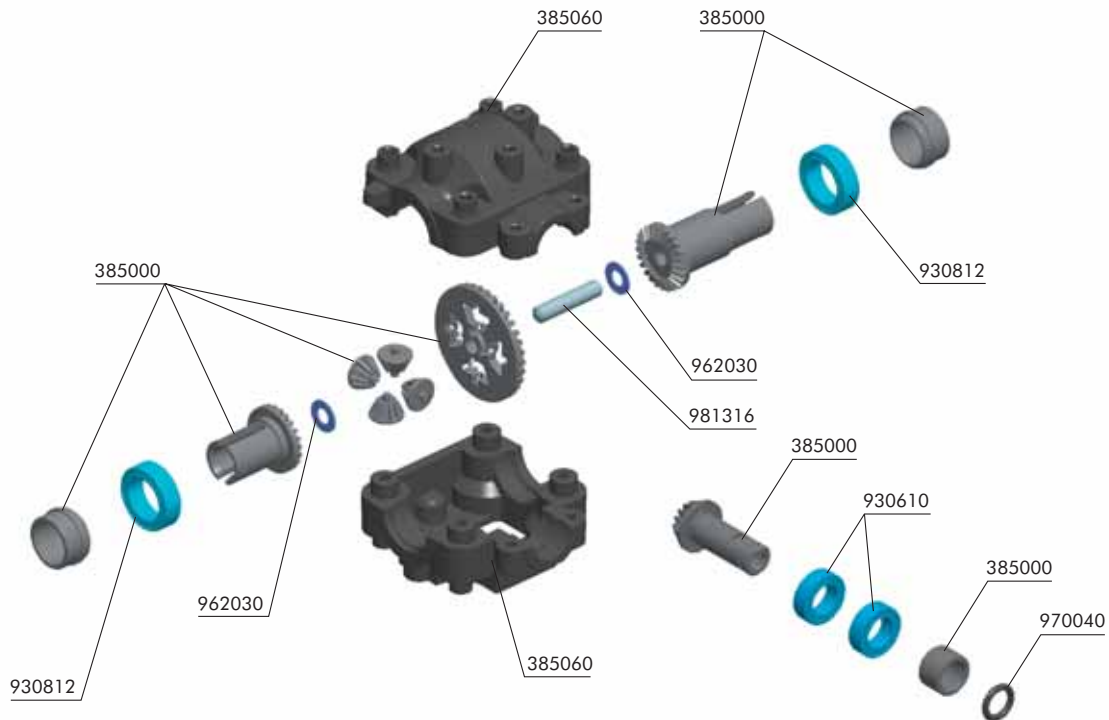
TOOLS REQUIRED

				
Hobby Knife	Side Cutters	Needlenose Pliers	Curved Scissors	Hole Reamer

EQUIPMENT REQUIRED

							(Ni-MH recommended) 	(Typically AA type) 	INCLUDED IN #38 0921				
Transmitter	Receiver	Lexan Paint	Fuel	Glow Plug Igniter	Hudy Start-Box #10 4300	CA Glue	Battery Charger	Transmitter Batteries	2x 		Receiver Battery		Switch with Cables

1. FRONT DIFFERENTIAL



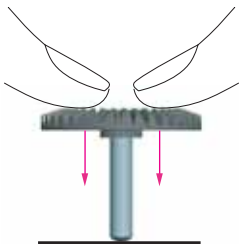
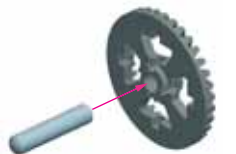
BAG

01

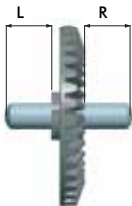
385000 COMPOSITE GEAR DIFF. + DRIVESHAFT PINION GEAR
 385060 GEARBOX CASE
 930610 BALL-BEARING MR106ZZ 6x10x3 (2)

930812 BALL-BEARING MR128ZZ 8x12x3.5 (2)
 962030 WASHER S 3x6x0.3 (10)
 970040 O-RING 4x1 (10)
 981316 PIN 3x16 (10)

1.

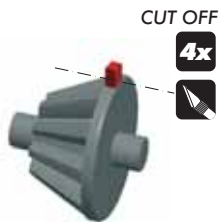


SAME LENGTH
 L=R



981316
P 3x16

2.



CUT OFF

4x

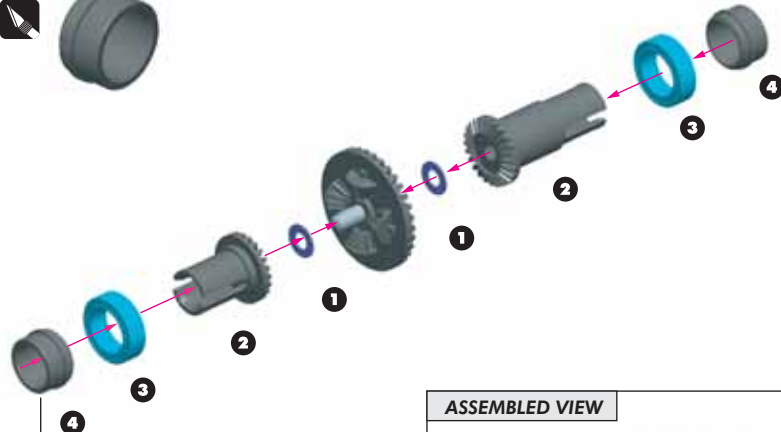


3.



CUT OFF

2x



 NOTE ORIENTATION

NOTE ORIENTATION 

ASSEMBLED VIEW



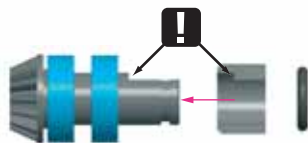
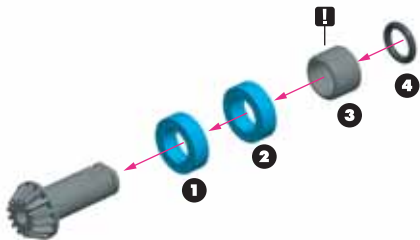
962030
S 3x6x0.3



930812
BB 8x12x3.5

4.

NOTE
ORIENTATION



ASSEMBLED VIEW



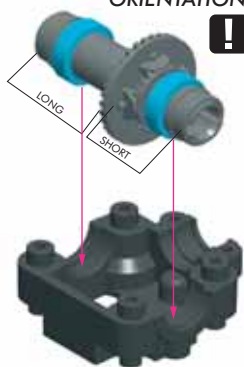
930610
BB 6x10x3



970040
O 4x1

5.

NOTE
ORIENTATION



ORIENTATION



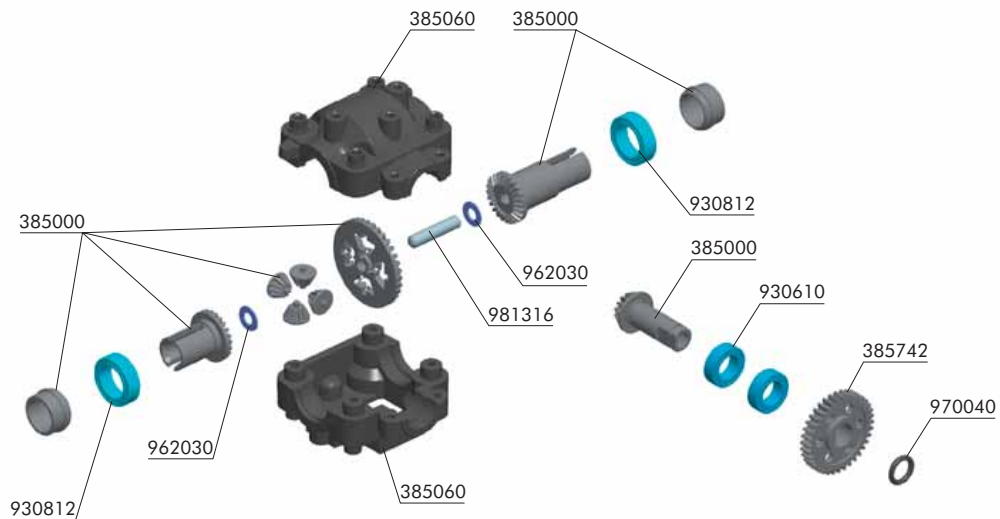
6.



ASSEMBLED VIEW



2. REAR DIFFERENTIAL



BAG

02

385000 COMPOSITE GEAR DIFF. + DRIVESHAFT PINION GEAR
 385060 GEARBOX CASE
 385742 SPUR GEAR „H“ 42T / 48

930610 BALL-BEARING MR106ZZ 6x10x3 (2)
 930812 BALL-BEARING MR128ZZ 8x12x3.5 (2)
 962030 WASHER S 3x6x0.3 (10)
 970040 O-RING 4x1 (10)
 981316 PIN 3x16 (10)

1.

SAME LENGTH
L=R

L R

981316
P 3x16

2.

CUT OFF
4x

962030
S 3x6x0.3

3.

CUT OFF
2x

NOTE ORIENTATION

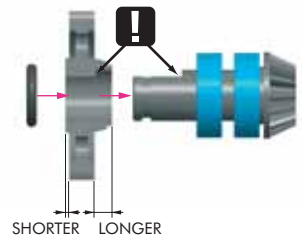
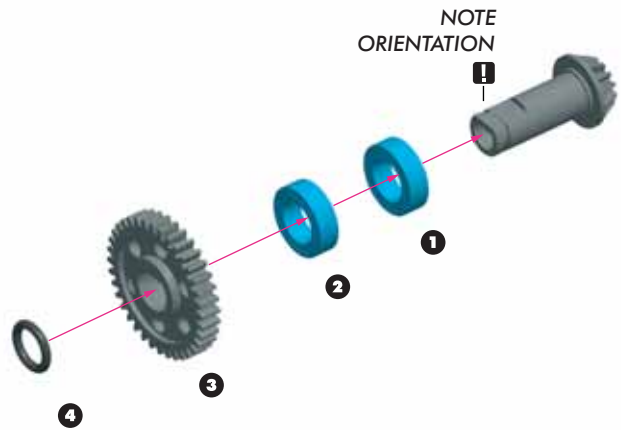
NOTE ORIENTATION

ASSEMBLED VIEW

962030
S 3x6x0.3

930812
BB 8x12x3.5

4.



ASSEMBLED VIEW

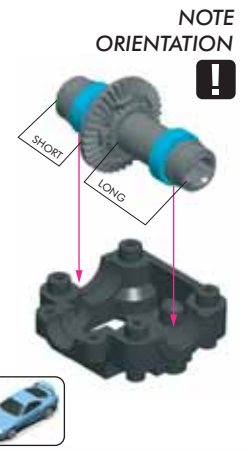


930610
BB 6x10x3



970040
O 4x1

5.



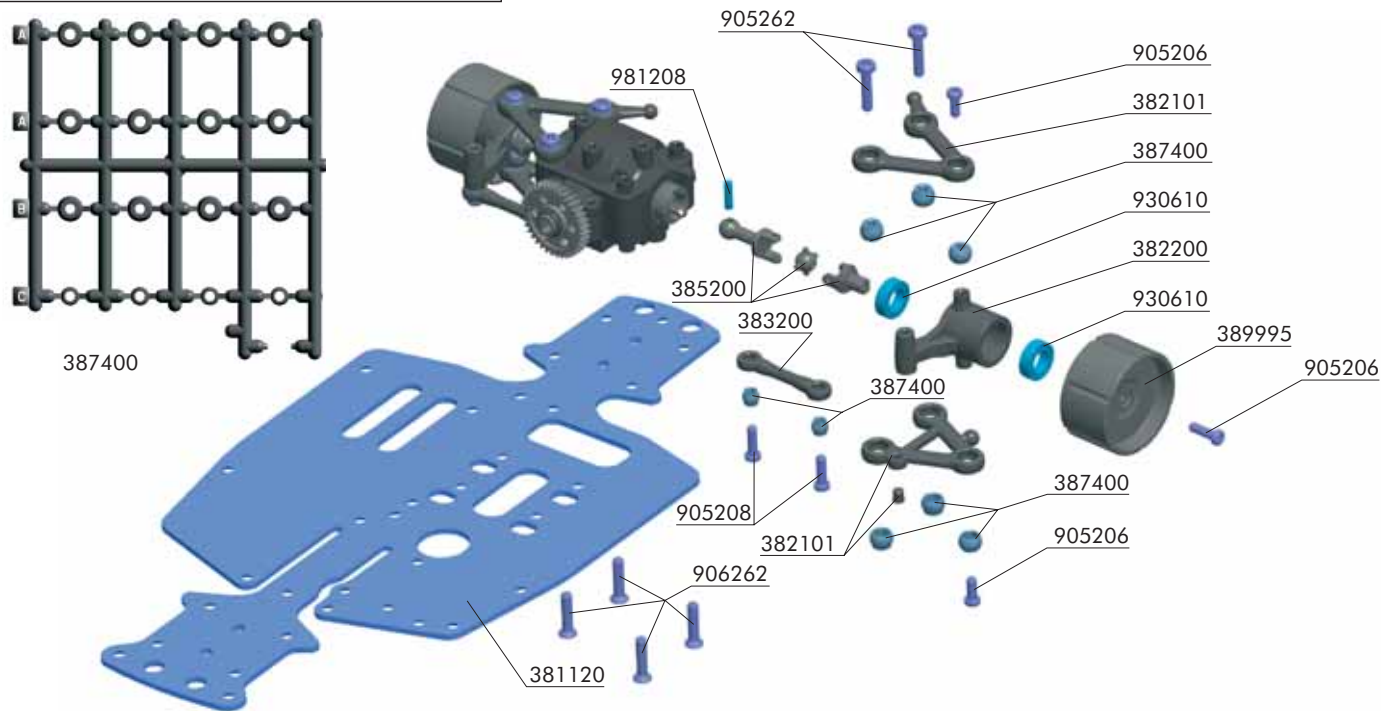
6.



ASSEMBLED VIEW



3. REAR SUSPENSION



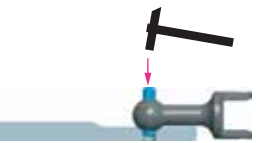
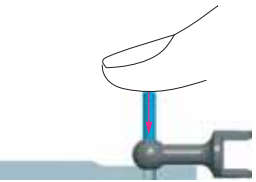
BAG

03

381120	NT18 ALU CHASSIS - CNC MACHINED 7075 T6	905206	SCREW PHILLIPS 2.2x6 (10)
382101	SET OF SUSPENSION ARMS, LOWER + UPPER (2+1+1) - HARD	905208	SCREW PHILLIPS 2.2x8 (10)
382200	COMPOSITE SUSPENSION BLOCK, L+R (2)	905262	SCREW PHILLIPS 2.5x12 (10)
383200	SET OF LINKAGES + BALL JOINTS	906262	SCREW PHILLIPS FH 2.5x12 (10)
385200	COMPOSITE DRIVE SHAFT - SET (2)	930610	BALL-BEARING MR106ZZ 6x10x3 (2)
387400	SET OF COMPOSITE PIVOT BALLS	981208	PIN 2x8 (10)
389995	INNER WHEEL ADAPTORS, F+R		

1.

2x



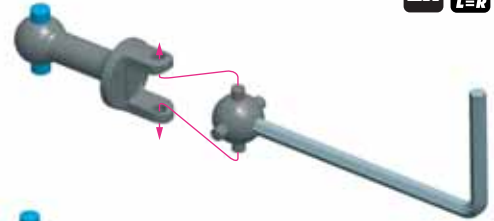
SAME LENGTH L=R



981208
P 2x8

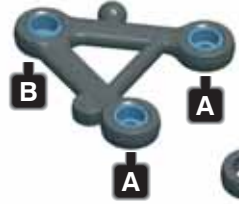
2.

2x L=R

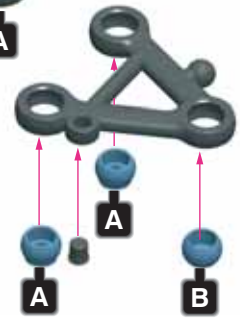


3.

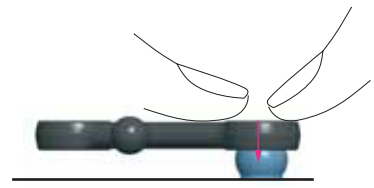
RIGHT LOWER ARM



LEFT LOWER ARM



NOTE ORIENTATION OF ALL PIVOT BALLS !



A



B

TECH TIP ADJUSTABLE DOWNSTOPS



REMOVE DOWNSTOP PIN



THREAD SET SCREW

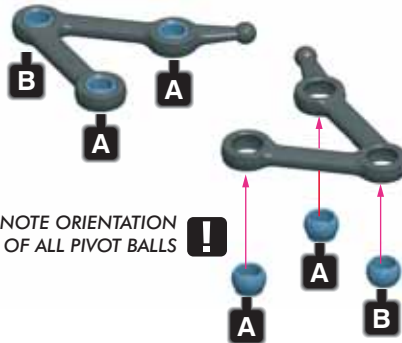


901304
SB M3x4

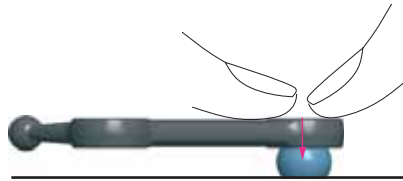
DOWNSTOP SCREWS
ARE IN LAST BAG



4.



NOTE ORIENTATION
OF ALL PIVOT BALLS !



A



B

5.

RIGHT



LEFT



RIGHT



LEFT



6.



TIGHTEN
GENTLY 

ORIENTATION



905206
2.2x6

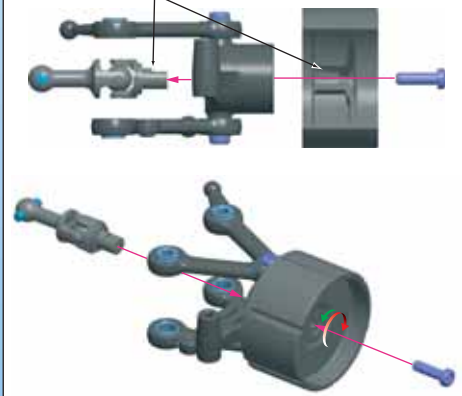
7.



930610
BB 6x10x3

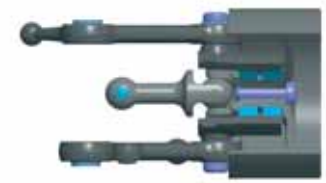
8.

! ALIGN TAB AND SLOT
BEFORE TIGHTENING SCREW



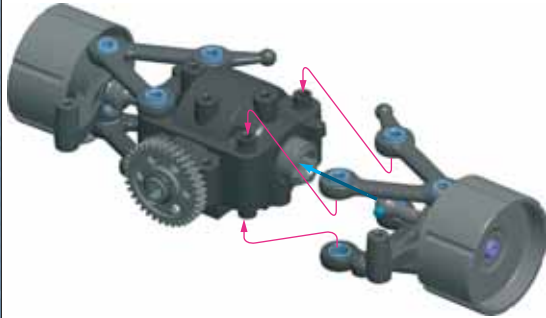
TIGHTEN SCREW,
THEN LOOSEN A LITTLE BIT **!**

CUTAWAY ASSEMBLED VIEW

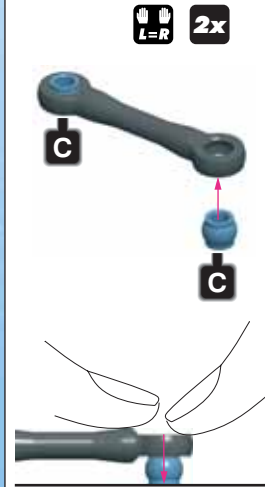


905206
2.2x6

9.

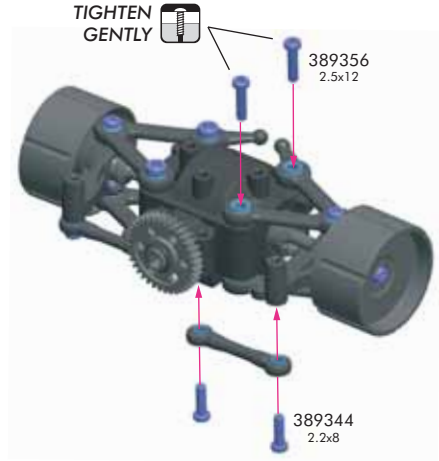


10.



C

11.



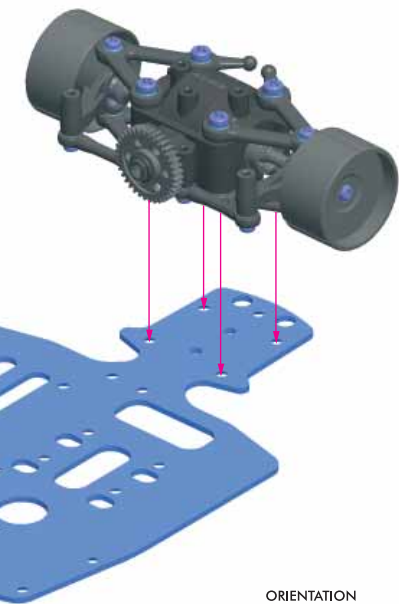
ASSEMBLED VIEW



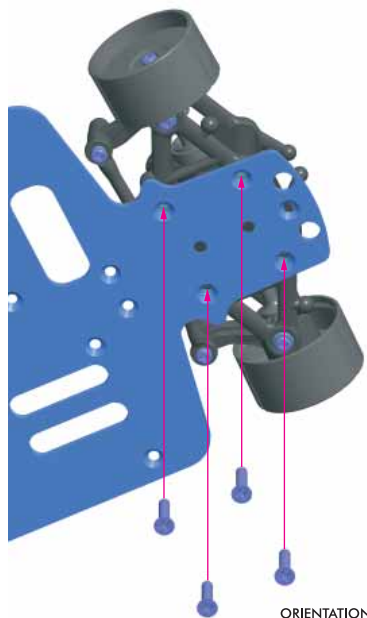
905208
2.2x8



905262
2.5x12



ORIENTATION



ORIENTATION



ASSEMBLED VIEW



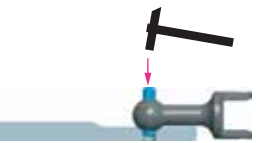
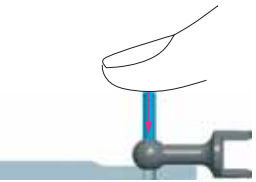
ORIENTATION



906262
2.5x12

1.

2x



SAME LENGTH L=R

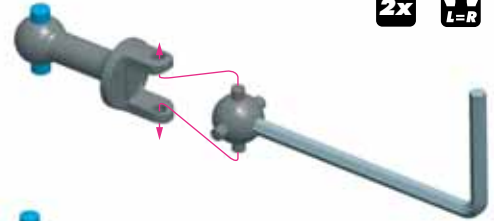


981208 P 2x8

2.

2x

L=R



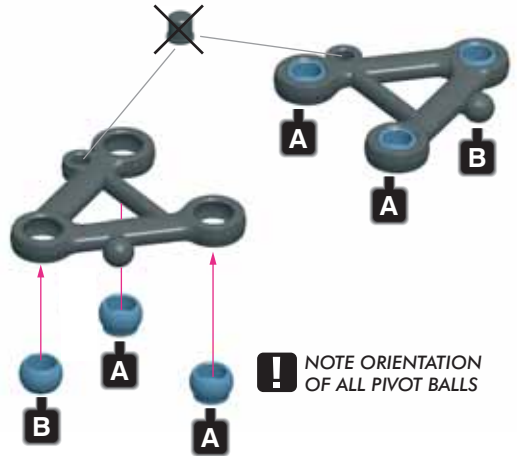
CHECK

3.

RIGHT LOWER ARM

LEFT LOWER ARM

! DO NOT USE DOWNSTOP PIN ON LOWER ARMS



! NOTE ORIENTATION OF ALL PIVOT BALLS

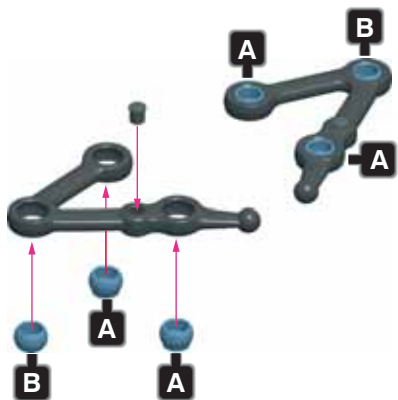


A

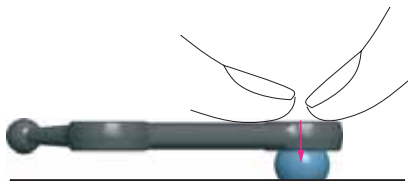


B

4.



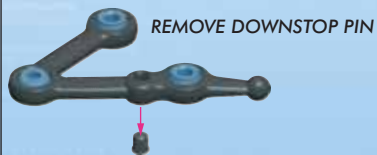
! NOTE ORIENTATION OF ALL PIVOT BALLS



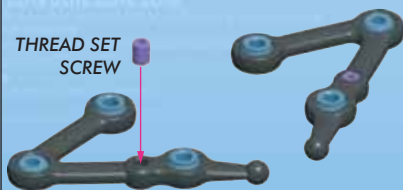
A

B

TECH TIP ADJUSTABLE DOWNSTOPS



REMOVE DOWNSTOP PIN



THREAD SET SCREW



R

L

L=R



901304
SB M3x4

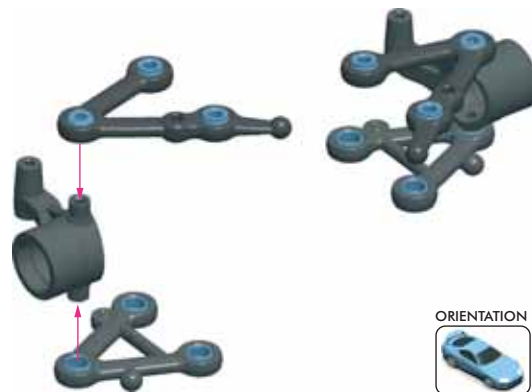
DOWNSTOP SCREWS
ARE IN LAST BAG



5.

RIGHT

LEFT



ORIENTATION

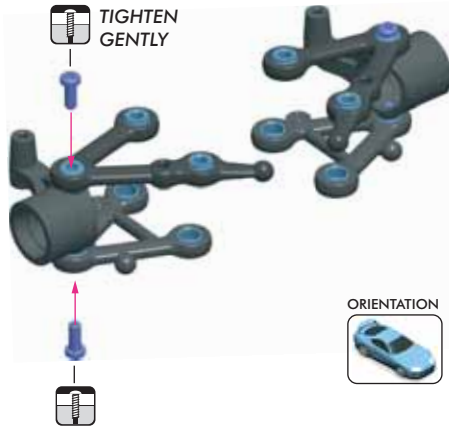


RIGHT

LEFT

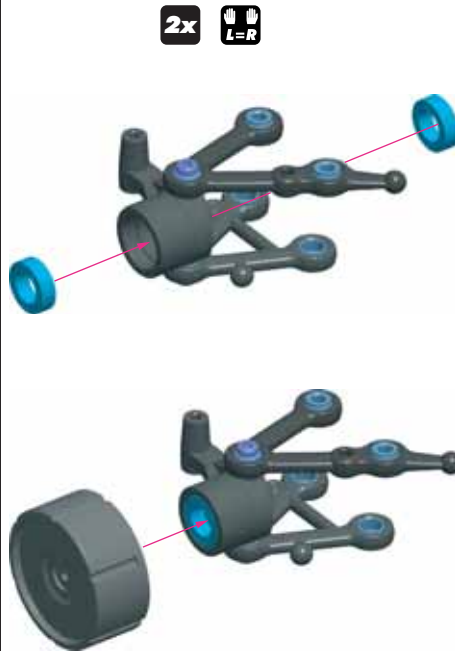


6.



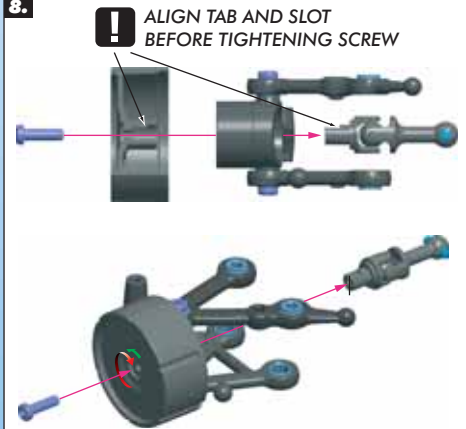
905206
2.2x6

7.



930610
BB 6x10x3

8.



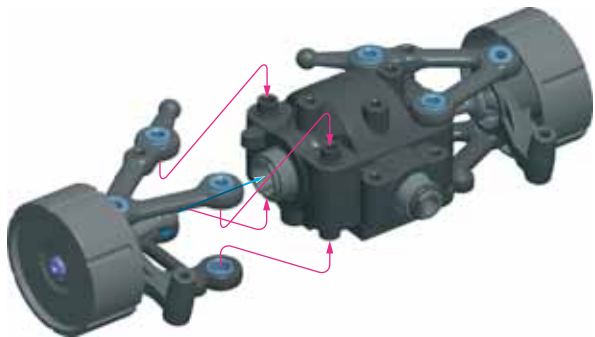
! TIGHTEN SCREW, THEN LOOSEN A LITTLE BIT

CUTAWAY ASSEMBLED VIEW



905206
2.2x6

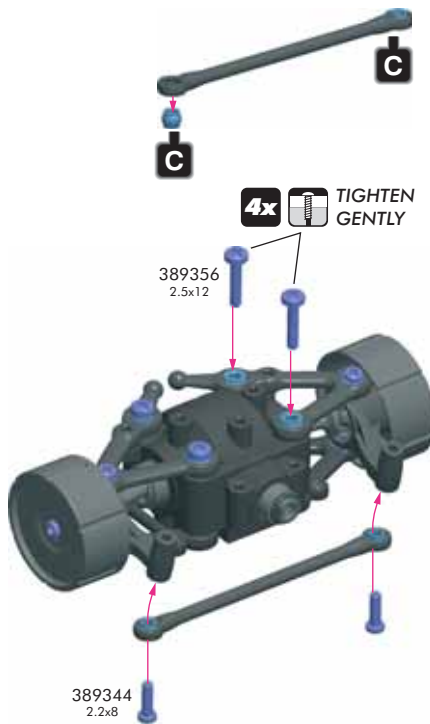
9.



ORIENTATION



10.



C

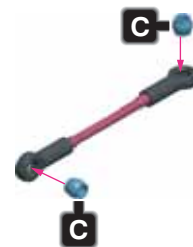


905208
2.2x8



905262
2.5x12

11.




ASSEMBLED VIEW




C

12.**ASSEMBLED VIEW**

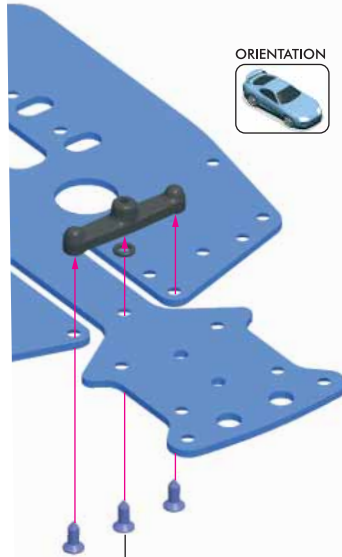
 **MAKE SURE ARMS
MOVE FREELY**


PLASTIC SHIM


**905210
2.2x10**

13.**TIP**

The O-ring and center screw are used to adjust the front chassis flex. Tightening or loosening the center metric screw will stiffen or soften (respectively) the front chassis flex and will change the front suspension grip.

ORIENTATION

**USE METRIC
SCREW** 

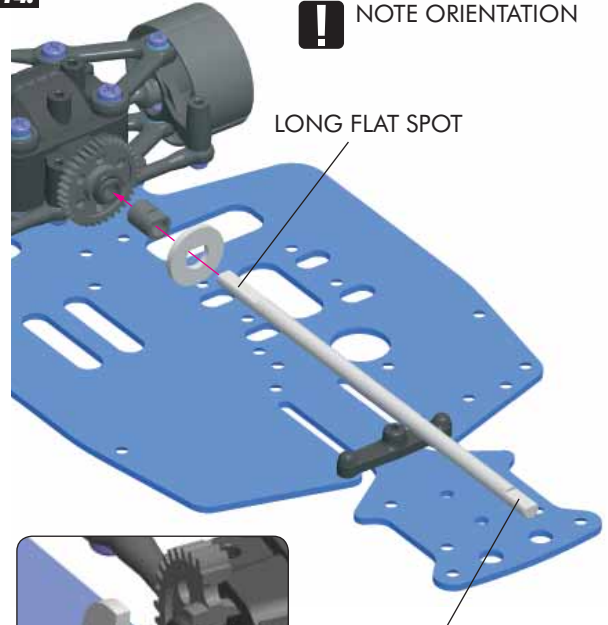
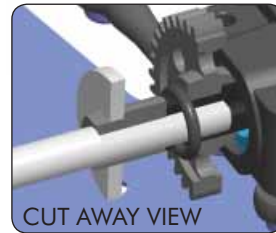

**906256
2.5x6**


**970025
O 2.5x1**

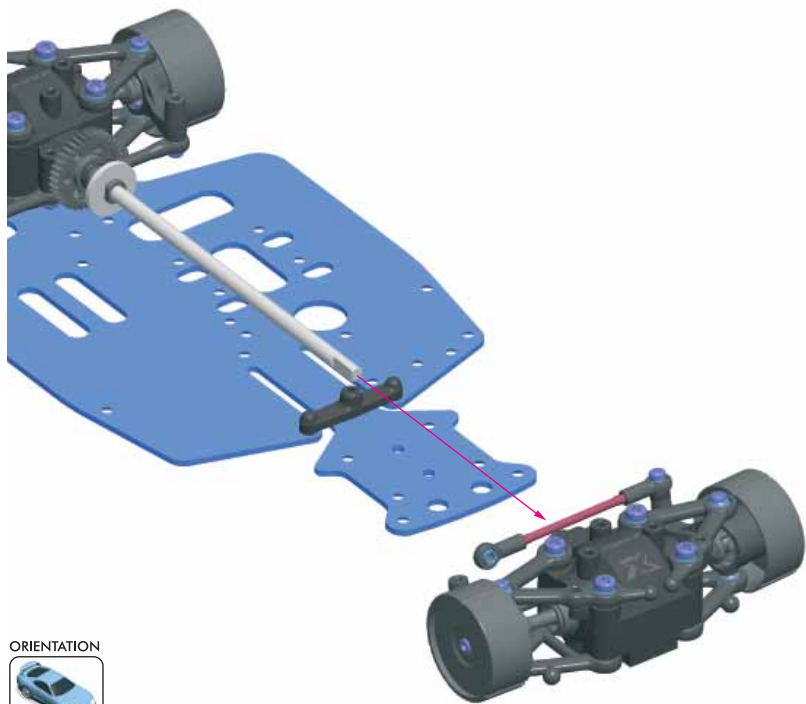

**910256
M2.5x6**

14.

 **NOTE ORIENTATION**

LONG FLAT SPOT**SHORT FLAT SPOT****CUT AWAY VIEW****ORIENTATION**

16.

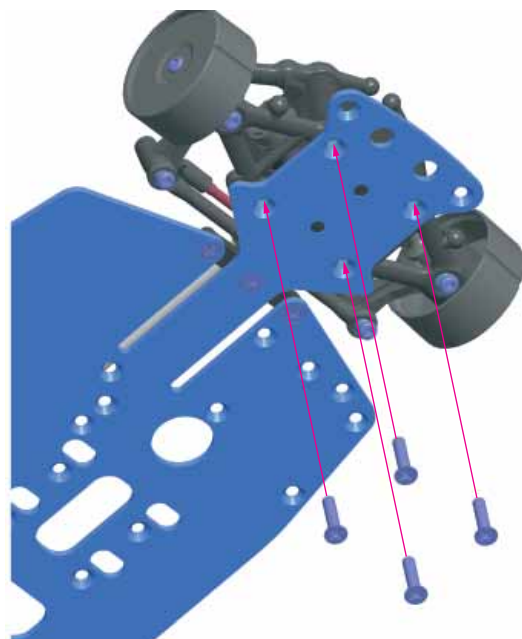


ORIENTATION



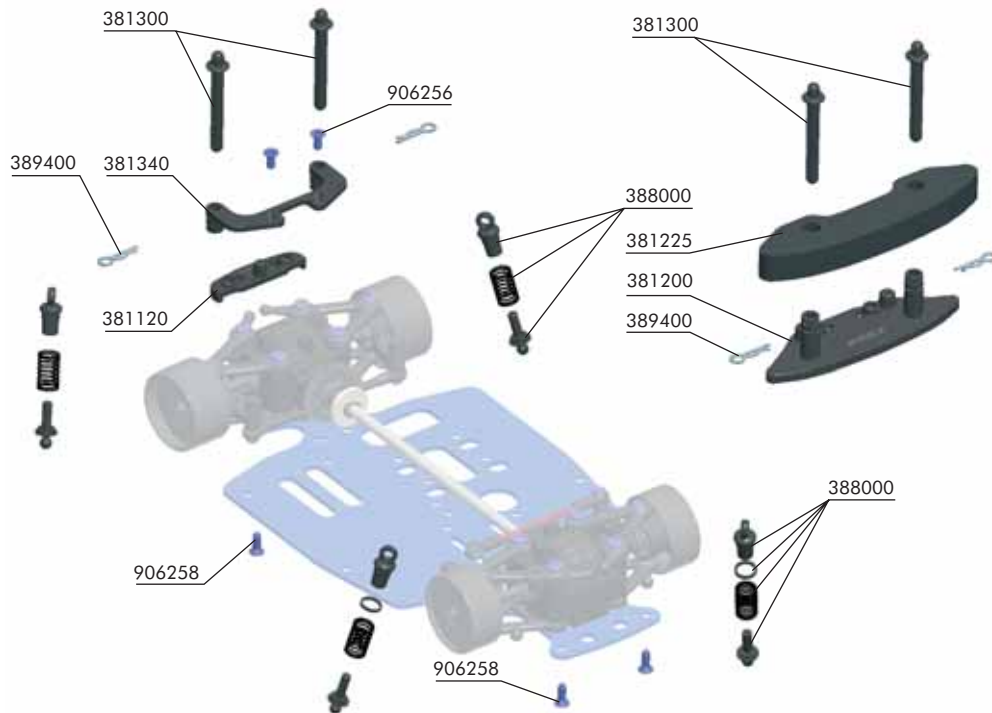
17.

ORIENTATION



906262
2.5x12

5. FRONT AND REAR ASSEMBLY



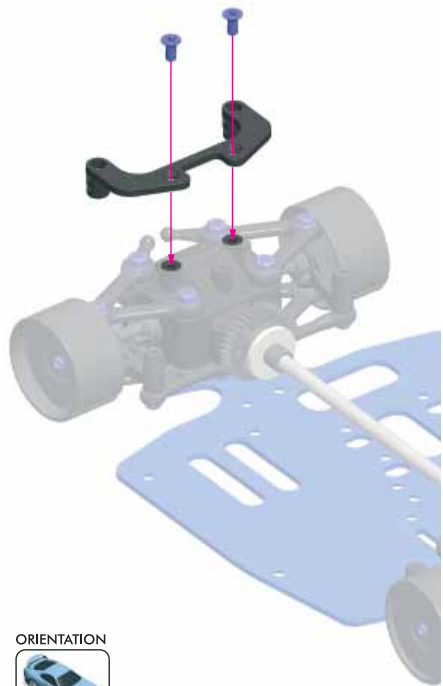
BAG

05

381120 NT18 ALU CHASSIS - CNC MACHINED 7075 T6
 381200 LOWER FRONT BUMPER
 381225 FOAM BUMPER - BLACK
 381300 COMPOSITE BODY POSTS (4) + BODY CLIPS
 381340 COMPOSITE REAR BODY POST HOLDER

388000 COMPOSITE SHOCK BODY SET (4)
 389400 MICRO BODY CLIP (10)
 906256 SCREW PHILLIPS FH 2.5x6 (10)
 906258 SCREW PHILLIPS FH 2.5x8 (10)

1.

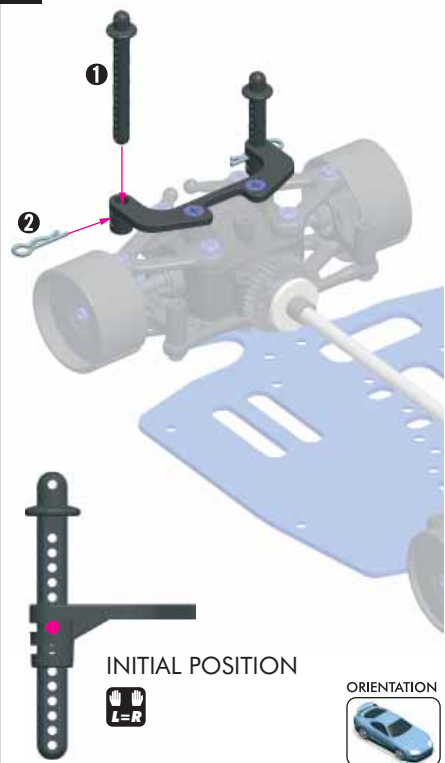


ORIENTATION



906256
2.5x6

2.



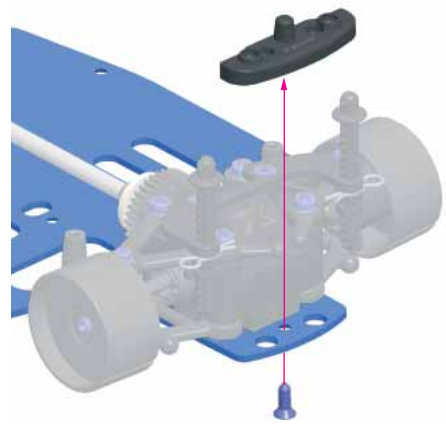
INITIAL POSITION



ORIENTATION



3.

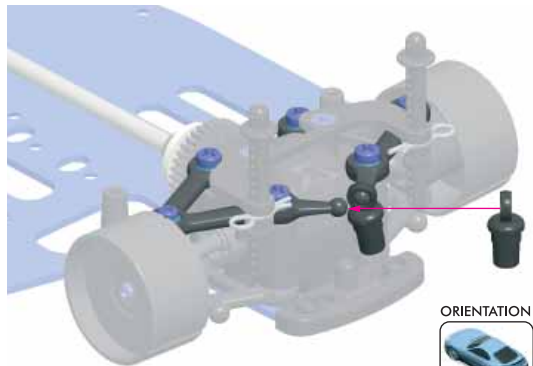


ORIENTATION



906258
2.5x8

4.

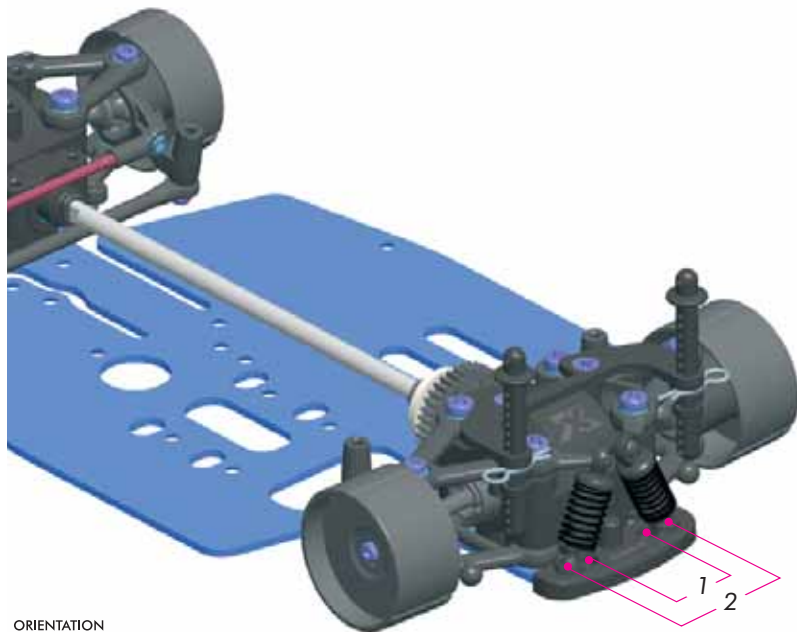


ORIENTATION



L=R

ASSEMBLED VIEW

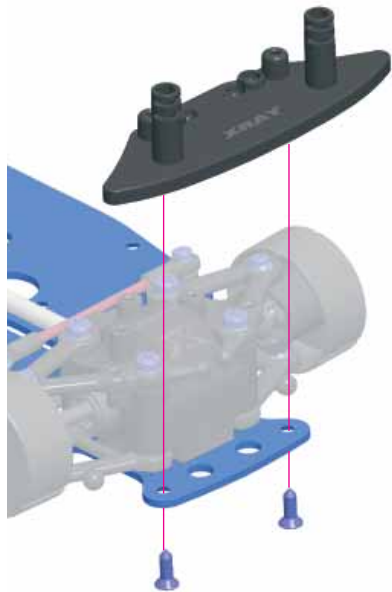


ORIENTATION



SHOCK POSITION
INITIAL POSITION #2

5.

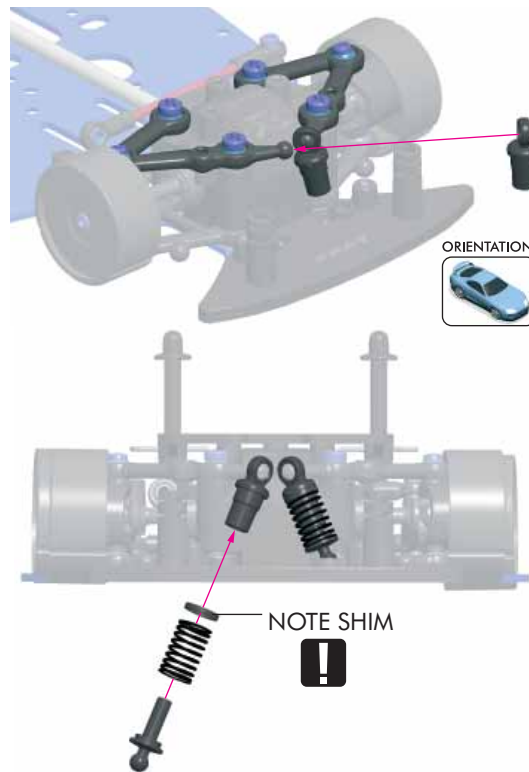


ORIENTATION



906258
2.5x8

6.



ORIENTATION

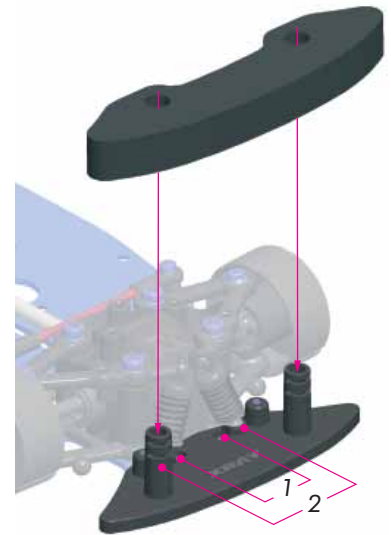


NOTE SHIM



PLASTIC SHIM

7.



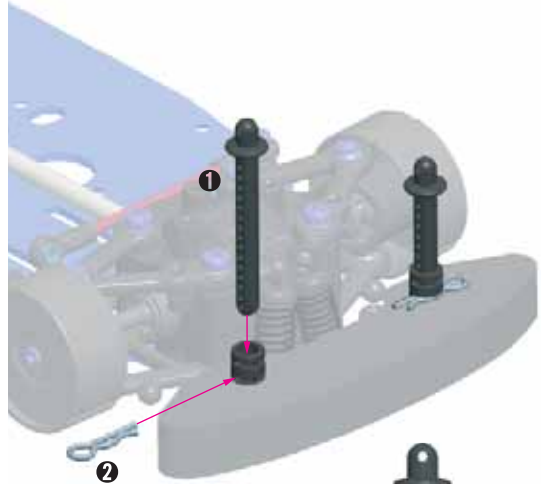
SHOCK POSITION

ORIENTATION



INITIAL POSITION #2

8.



INITIAL POSITION



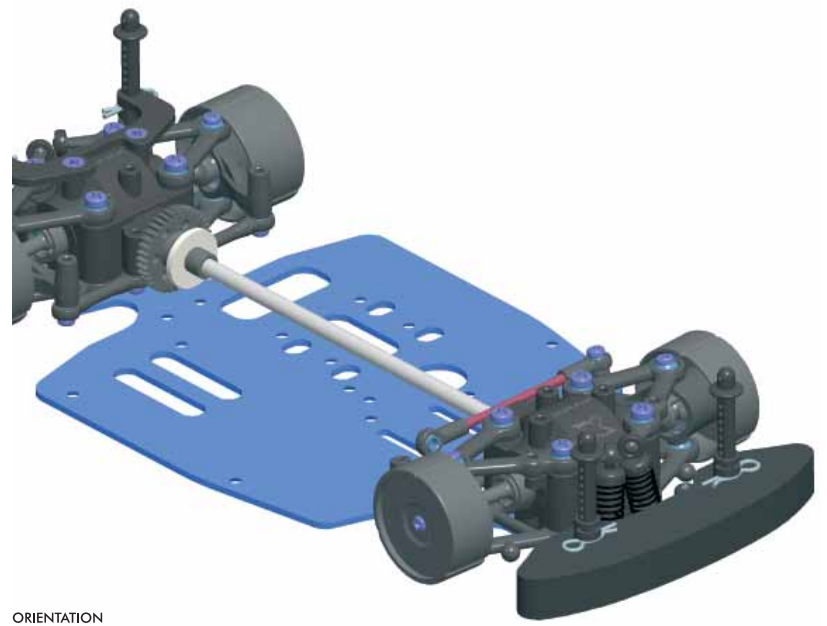
ORIENTATION



Cut away all excessing body mount



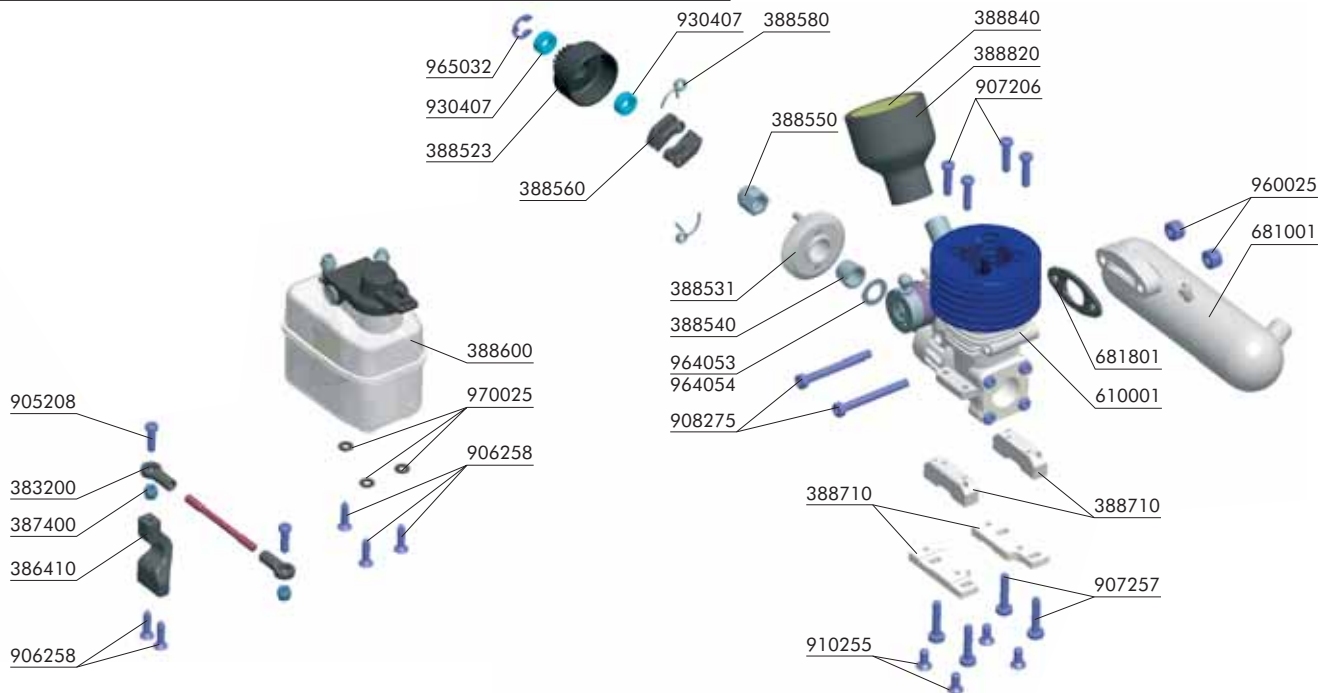
ASSEMBLED VIEW



ORIENTATION



6. FUEL TANK & ENGINE ASSEMBLY



BAG

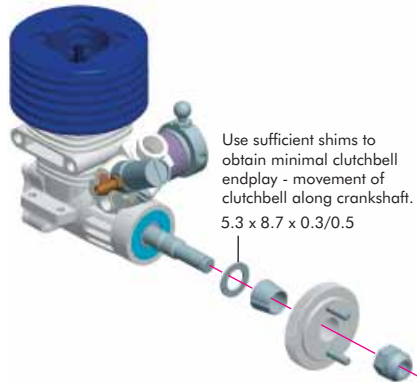
06

383200 SET OF LINKAGES + BALL JOINTS
 386410 RADIO PLATE & STANDS
 387400 SET OF COMPOSITE PIVOT BALLS
 388523 CLUTCH BELL 23T
 388531 FLYWHEEL
 388540 FLYWHEEL COLLAR
 388550 FLYWHEEL NUT
 388560 ALU CLUTCH SHOES - CNC MACHINED (2)
 388580 CLUTCH SPRINGS 0.6MM (2)
 388600 FUEL TANK 30CC
 388710 ALU ENGINE MOUNT SET

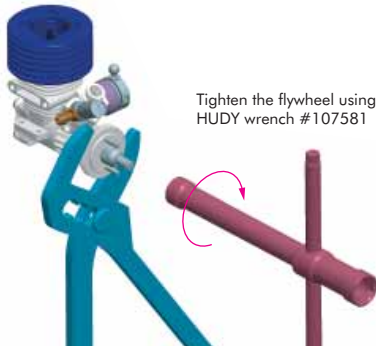
388820 AIR FILTER BODY
 388840 AIR FILTER FOAM
 610001 XRAY NT18 0.8cc ENGINE
 681001 XRAY NT18 MUFFLER
 681801 MUFFLER GASKET

905208 SCREW PHILLIPS 2.2x8 (10)
 906258 SCREW PHILLIPS FH 2.5x8 (10)
 907206 SCREW PHILLIPS 2x6 (10)
 907257 SCREW PHILLIPS M2.5x6 - STAINLESS (10)

908275 HEX SCREW SOCKET HEAD CAP M2.5x25 (10)
 910255 SCREW PHILLIPS FH M2.5x5 - STAINLESS (10)
 930407 BALL-BEARING MR74ZZ 4x7x2.5 (2)
 960025 NUT M2.5 (10)
 964053 WASHER S 5.3x8.7x0.3 (10)
 964054 WASHER S 5.3x8.7x0.5 (10)
 965032 E-CLIP 3.2 (10)
 970025 O-RING 2.5x1 (10)

1.

Use sufficient shims to obtain minimal clutchbell endplay - movement of clutchbell along crankshaft.
5.3 x 8.7 x 0.3/0.5



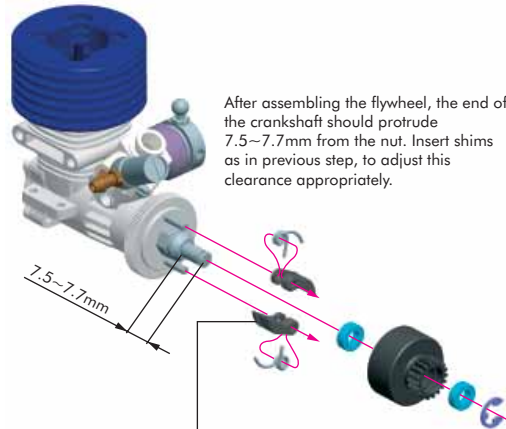
Tighten the flywheel using HUDY wrench #107581



964053
S 5.3x8.7x0.3



964054
S 5.3x8.7x0.5

2.

After assembling the flywheel, the end of the crankshaft should protrude 7.5~7.7mm from the nut. Insert shims as in previous step, to adjust this clearance appropriately.



Note the orientation of the clutch shoes. The short side of spring must be in the groove of the flywheel nut.



930407
BB 4x7x2.5



965032
C 3.2

3.

907206
M2x6



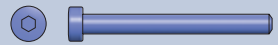
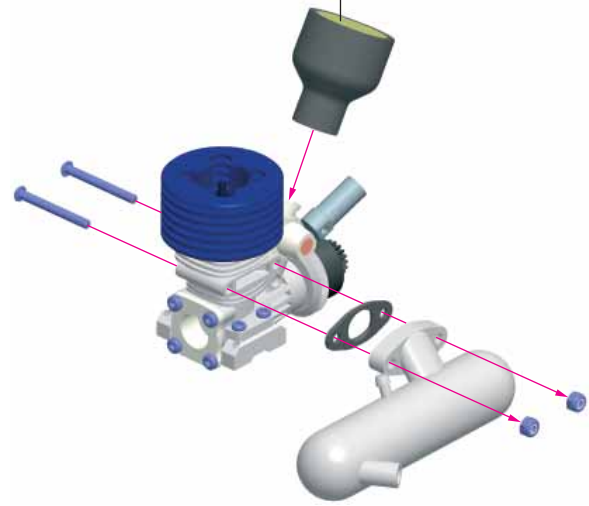
Note orientation of the upper engine mounts.



907206
M2x6

4.

Always use air filter oil

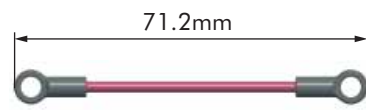
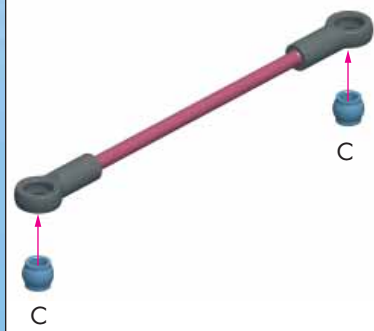
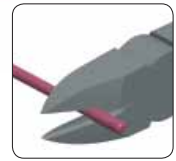
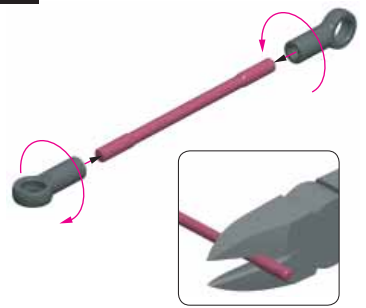


908275
SCH M2.5x25



960025
N M2.5

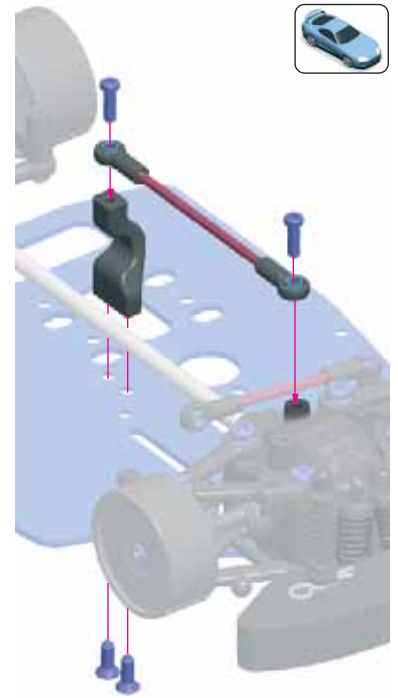
5.



C

6.

ORIENTATION

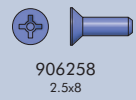
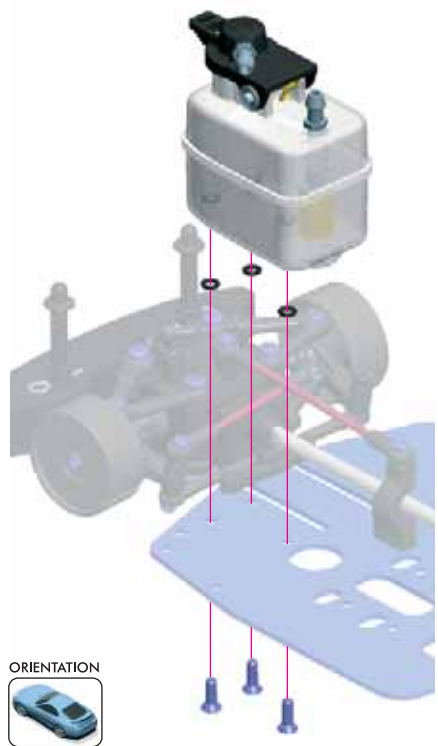


905208
2.2x8

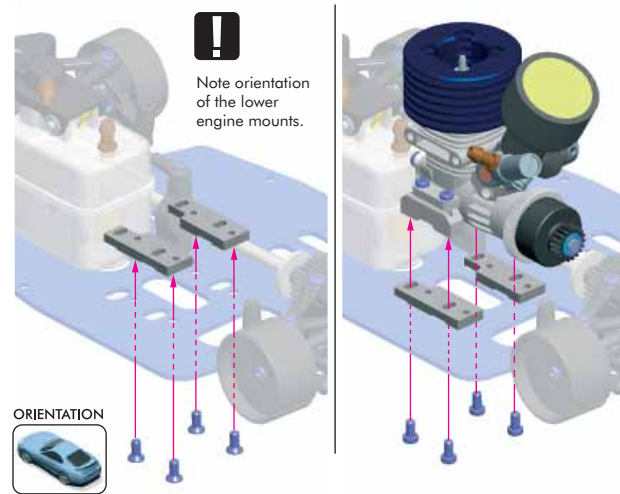


906258
2.5x8

7.



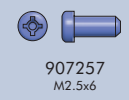
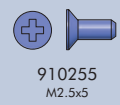
8.



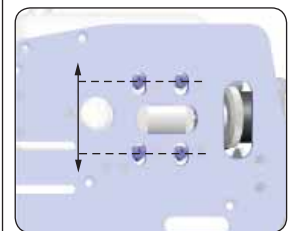
!
Note orientation of the lower engine mounts.

INTERNAL RATIO 1:2.5	SPUR GEAR	PINION GEAR	FINAL RATIO	ACCELERATION ↑ SPEED ↓
	42	o 19	5.53	
		o 20	5.25	
		o 21	5.00	
		o 22	4.77	
		x 23	4.56	
		o 24	4.38	
o 25	4.20			

x - INCLUDED WITH KIT
o - AVAILABLE OPTION



To adjust gear mesh, loosen these screws through bottom of chassis holes, move engine mounts as required, then retighten screws.



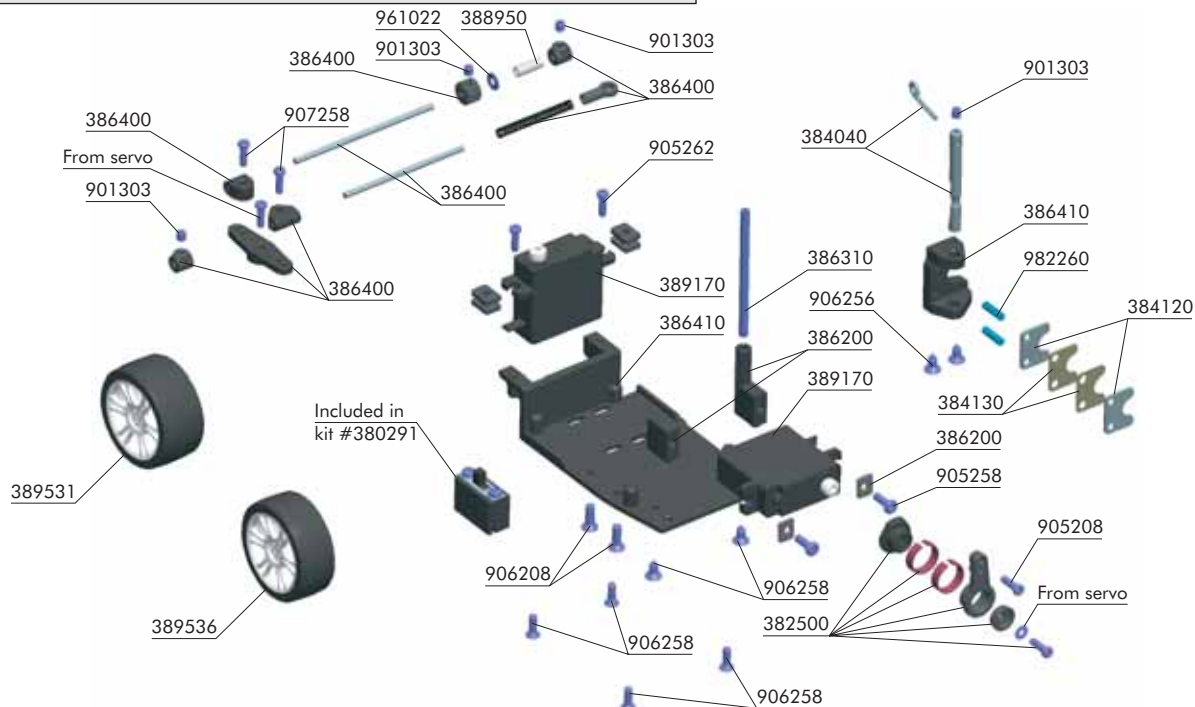
BOTTOM

Adjust engine position to achieve proper gear mesh



Insert a sheet of paper between gears to set proper mesh

7. ELECTRONICS & FINAL ASSEMBLY



BAG

07

382500	MICRO SERVO SAVER
384040	BRAKE CAM POST & ROD
384120	STEEL BRAKE PAD (2)
384130	BRAKE PAD FERODO (2)
386200	COMPOSITE SERVO MOUNT+ ANTENNA HOLDER - SET
386310	ANTENNA
386400	BRAKE/THROTTLE SYSTEM SET
386410	RADIO PLATE & STANDS
388950	SILICONE TUBING 2.3 x 5.0 400MM CLEAR
389170	XRAY XMS01MG MICRO SERVO - METAL GEAR

389531	REAR FOAM TIRE MOUNTED (2) - SOFT
389536	FRONT FOAM TIRE MOUNTED (2) - HARD
389995	INNER WHEEL ADAPTORS, F+R
901303	HEX SCREW SB M3x3 (10)
905208	SCREW PHILLIPS 2.2x8 (10)
905258	SCREW PHILLIPS 2.5x8 (10)
905262	SCREW PHILLIPS 2.5x12 (10)
906208	SCREW PHILLIPS FH 2.2x8 (10)
906256	SCREW PHILLIPS FH 2.5x6 (10)

906258	SCREW PHILLIPS FH 2.5x8 (10)
907258	SCREW PHILLIPS M2.5x8 (10)
961022	WASHER S 2.2 (10)
982260	SPRING PIN 2.5x10 (2)

1. Fibre pad (Ferodo)

Steel pad

2x

2.

Fibre pads together

3

1

2

CORRECT

INCORRECT

982260
SP 2.5x10

3.

1

2

ORIENTATION

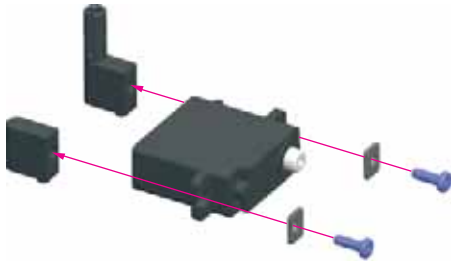
906256
2.5x6

ASSEMBLED VIEW

Insert brake disk between brake pads

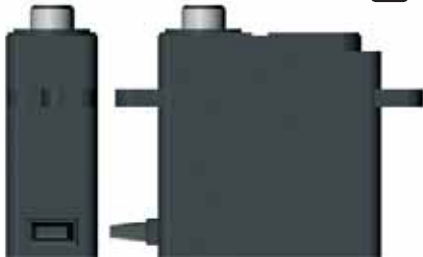
SIDE VIEW

4.



USE A MICRO SERVO THAT IS SIMILAR TO OR SMALLER THAN THE SERVO SHOWN

1:1

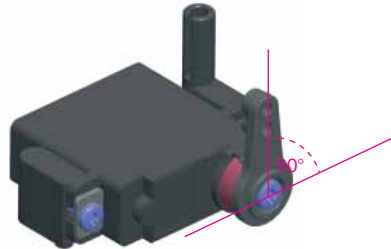
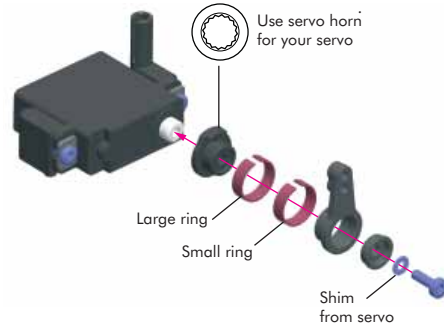


TIP USE #389170 XRAY MICRO SERVO



905258
2.5x8

5.



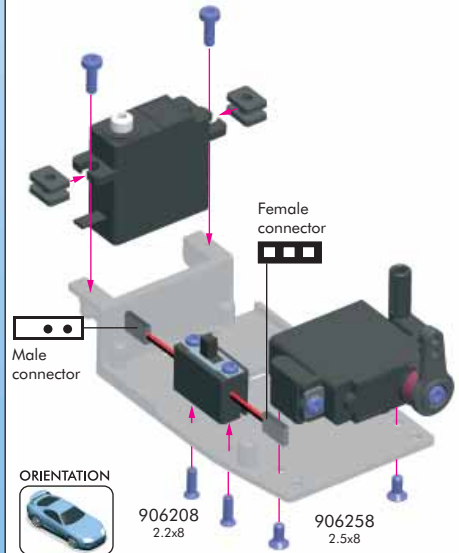
After you connect the servo and it is in neutral, the servo horn must be perpendicular to the servo body.



907238
M2.3x8

6.

Servos and rubber tabs included only in kit #380291



Switch with connecting cable and two 2.2x8 screws included only in kit #380921.

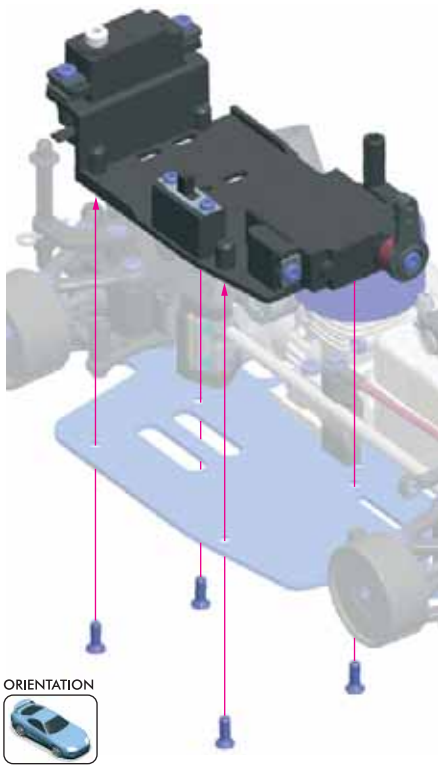


905262
2.5x12

906208
2.2x8

906258
2.5x8

7.



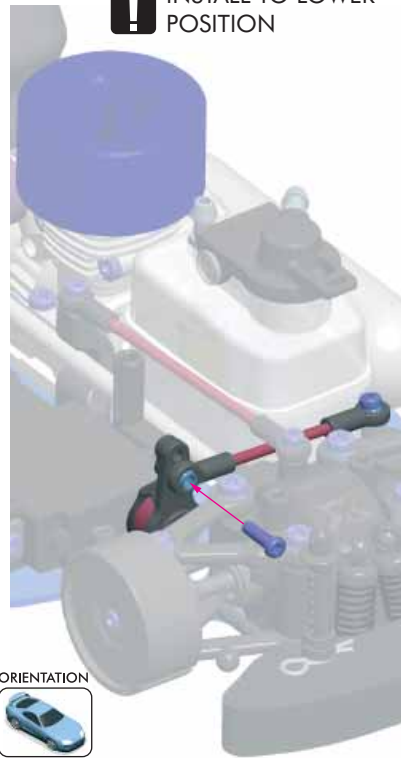
ORIENTATION



906258
2.5x8

8.

! INSTALL TO LOWER POSITION

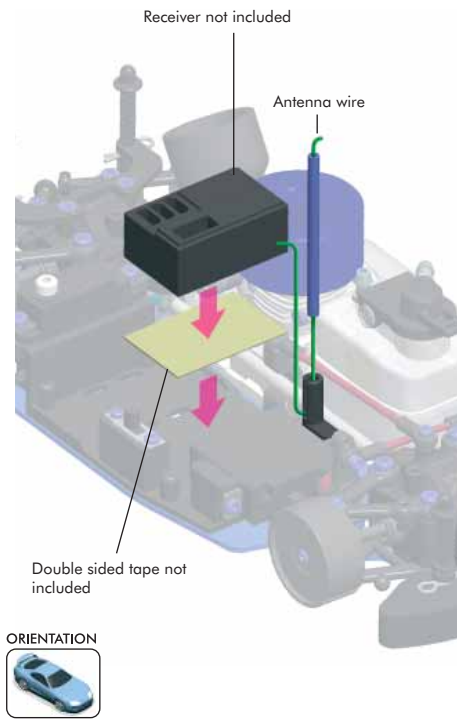


ORIENTATION



905208
2.2x8

9.



Receiver not included

Antenna wire

Double sided tape not included

ORIENTATION

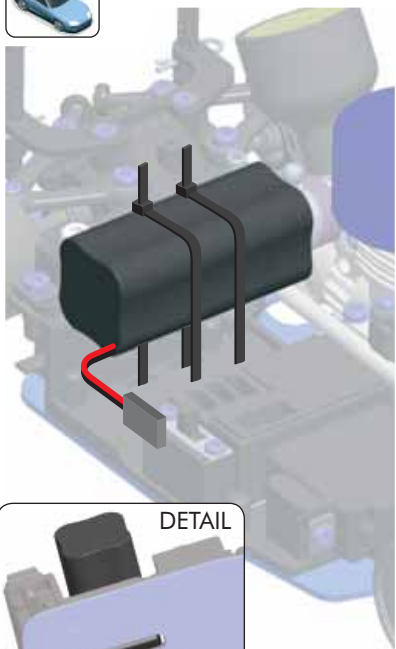


10.

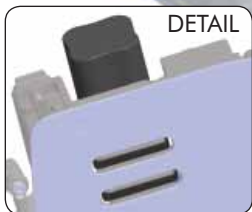
ORIENTATION



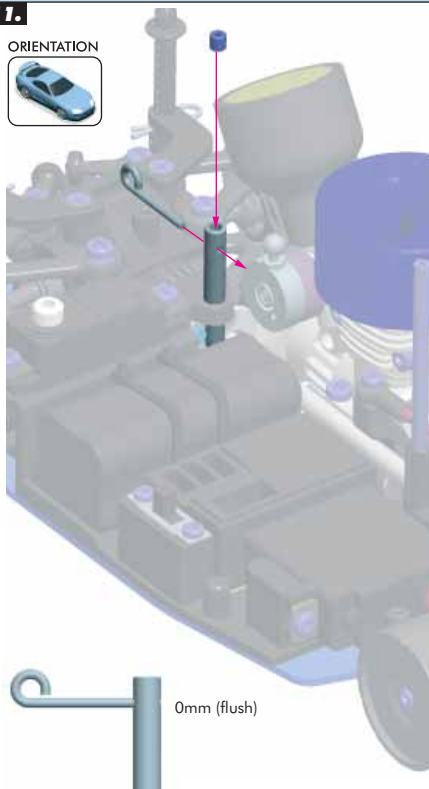
Receiver battery pack #389150
included in kit #380291



DETAIL

**BOTTOM****11.**

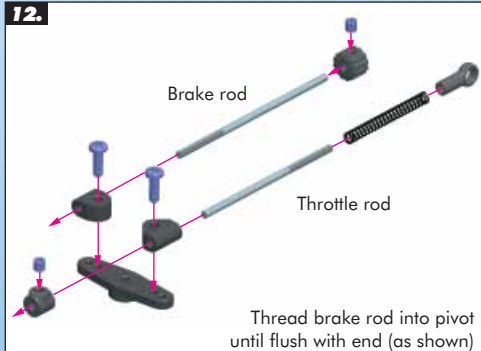
ORIENTATION



0mm (flush)



901303
SB M3x3

12.

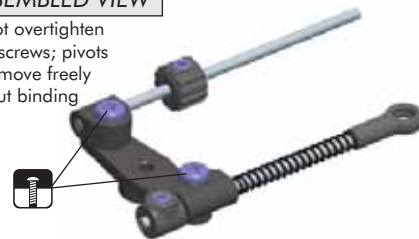
Brake rod

Throttle rod

Thread brake rod into pivot
until flush with end (as shown)

ASSEMBLED VIEW

Do not overtighten
pivot screws; pivots
must move freely
without binding

**SIDE VIEW**

901303
SB M3x3



907258
M2.5x8

13. ORIENTATION

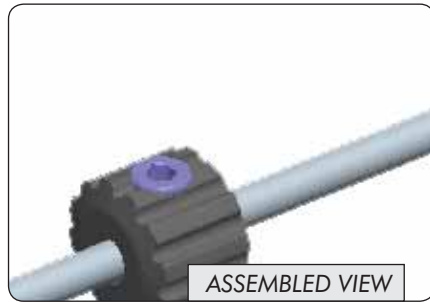
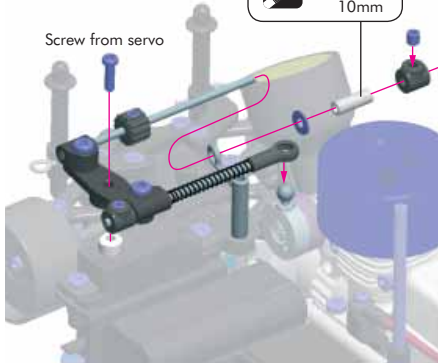


SILICONE TUBING



10mm

Screw from servo



ASSEMBLED VIEW



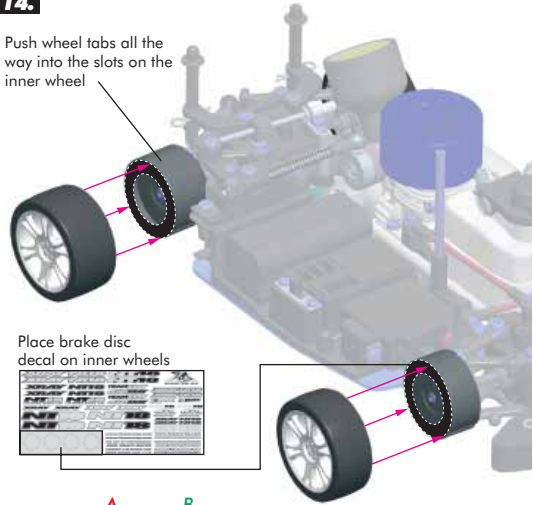
901303
SB M3x3



961022
S 2.2

14.

Push wheel tabs all the way into the slots on the inner wheel



Place brake disc decal on inner wheels



	A	B
FRONT	98mm	101mm
REAR	104mm	107mm

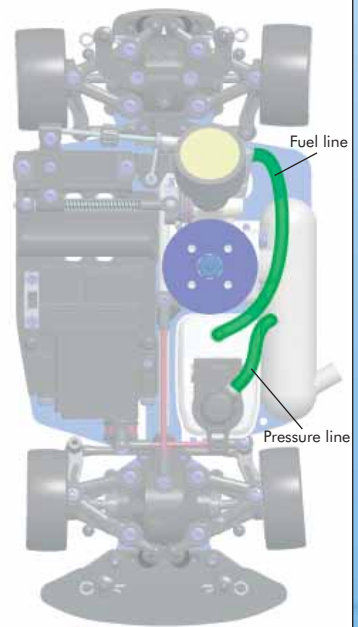
A TRACKWIDTH (NARROW)

B TRACKWIDTH (WIDE)



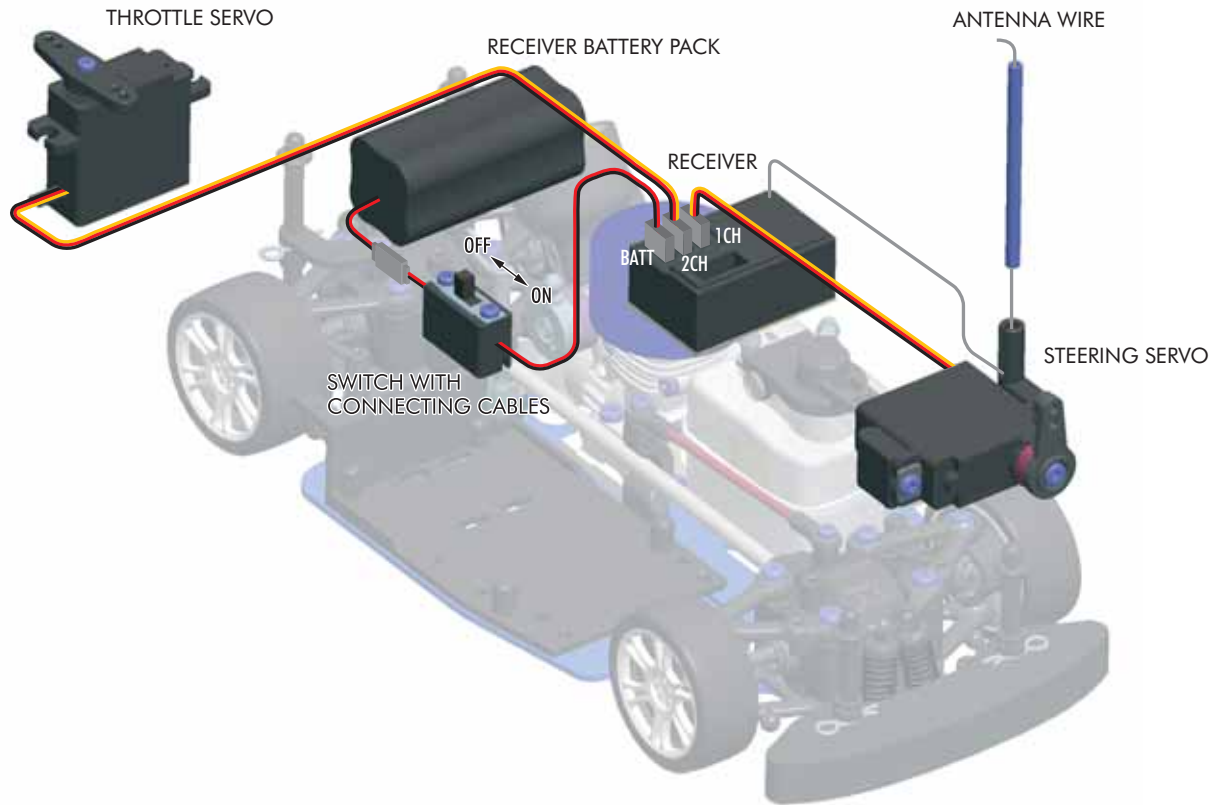
15.

Install silicone tubing as shown



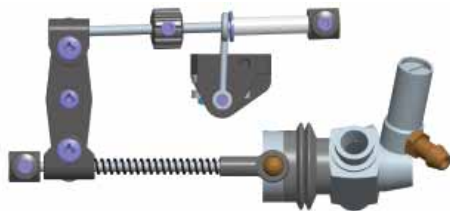
Fuel line

Pressure line



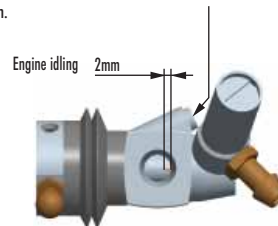
THROTTLE LINKAGE ADJUSTMENT

NEUTRAL (IDLE)

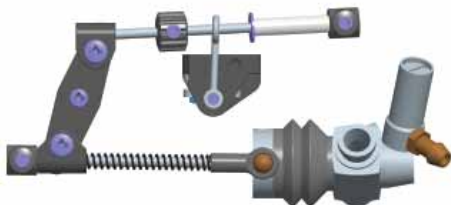


- Turn on the transmitter and receiver and set the engine control servo trim to the neutral position.
- Adjust the idle adjustment screw on the carburetor to open approx. 1mm.
- Adjust both the throttle linkage and brake linkages accordingly.
- DO NOT adjust the linkage with the engine running.

Idling Adjustment Screw.
Use to adjust the idle setting of the carburetor.
Do not allow carburetor to close to less than 1mm.



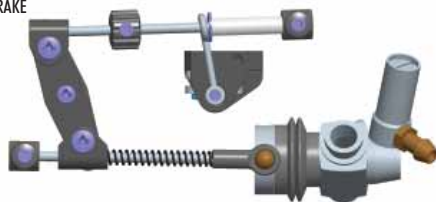
FULL THROTTLE



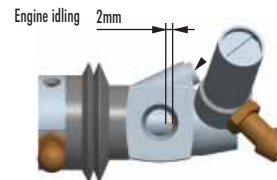
- Adjust the servo-horn mounting position for the carburetor to open fully.
- Change the pivot mounting position on the servo horn in case the carburetor is not opening fully or if it is opening excessively. Or if available on the transmitter, adjust the throttle high end point.



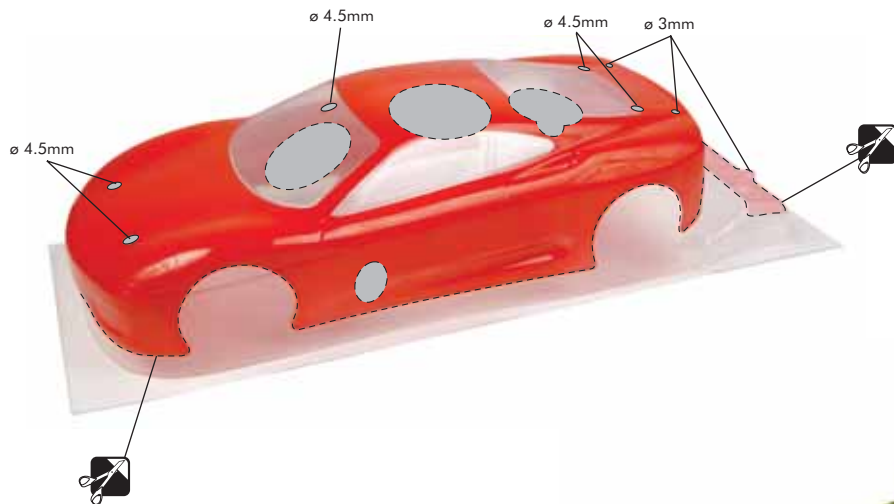
BRAKE



- Adjust the brake rod collar so the brake works smoothly.
- If the brake applies too much or not enough, adjust the brake rod collar accordingly.
- Or if available on the transmitter, adjust the brake endpoint.
- To tighten brake, turn collar to thread brake rod INTO pivot.
- To loosen brake, turn collar to thread brake rod OUT of pivot.



BODY PREPARATION



4x HOLE FOR
BODY POSTS $\varnothing 4.5\text{mm}$

1x HOLE FOR
ANTENNA $\varnothing 4.5\text{mm}$

4x HOLE FOR
WING $\varnothing 3\text{mm}$

- 1 Cut out body and wing along trim lines
- 2 Apply window masks inside body
- 3 Mask and paint body using polycarbonate paint
- 4 Apply stickers



WARRANTY

XRAY guarantees this model kit to be free from defects in both material and workmanship within 30 days of purchase. The total monetary value under warranty will in no case exceed the cost of the original kit purchased. This warranty does not cover any components damaged by use or modification or as a result of wear. Part or parts missing from this kit must be reported within 30 days of purchase. No part or parts will be sent under warranty without proof of purchase. Should you find a defective or missing part, contact the local distributor. Service and customer support will be provided through local hobby store where you have purchased the kit, therefore make sure to purchase any XRAY products at your local hobby store. This model racing car is considered to be a high-performance racing vehicle. As such this vehicle will be used in an extreme range of conditions and situations, all which may cause premature wear or failure of any component. XRAY has no control over usage of vehicles once they leave the dealer, therefore XRAY can only offer warranty against all manufacturer's defects in materials, workmanship, and assembly at point of sale and before use. No warranties are expressed or implied that cover damage caused by what is considered normal use, or cover or imply how long any model cars' components or electronic components will last before requiring replacement.

Due to the high performance level of this model car you will need to periodically maintain and replace consumable components. Any and all warranty coverage will not cover replacement of any part or component damaged by neglect, abuse, or improper or unreasonable use. This

QUALITY CERTIFICATE

XRAY MODEL RACING CARS uses only the highest quality materials, the best compounds for molded parts and the most sophisticated manufacturing processes of TQM (Total Quality Management). We guarantee that all parts of a newly-purchased kit are manufactured with the highest regard to quality. However, due to the many factors inherent in model racecar competition, we cannot guarantee

includes but is not limited to damage from crashing, chemical and/or water damage, excessive moisture, improper or no maintenance, or user modifications which compromise the integrity of components. Warranty will not cover components that are considered consumable on RC vehicles. XRAY does not pay nor refund shipping on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

Limitations of Liability

XRAY makes no other warranties expressed or implied. XRAY shall not be liable for any loss, injury or damages, whether direct, indirect, special, incidental, or consequential, arising from the use, misuse, or abuse of this product and/or any product or accessory required to operate this product. In no case shall XRAY's liability exceed the monetary value of this product.

Take adequate safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation.

Disregard of the any of the above cautions may lead to accidents, personal injury, or property damage. XRAY MODEL RACING CARS assumes no responsibility for any injury, damage, or misuse of this product during assembly or operation, nor any additions that may arise from the use of this product. All rights reserved.

any parts once you start racing the car. Products which have been worn out, abused, neglected or improperly operated will not be covered under warranty. We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!