



Thank you for purchasing this Team Associated product. This manual contains steps and instructions you will use to set up your car. Please read this entire manual before attempting to start your car. Follow the directions in this manual closely to reduce any problems on start up. We hope that you will enjoy your new Team Asssociated car.

EAM NTC3 KIT

KIT INCLUDES:

Threaded shocks. 2-speed Transmission. Pro-Line wheels & tires. Aluminum MIP CVD's. Associated steel turnbuckles.

Also includes:

6061 T6 aluminum chassis. Precision rubber-sealed ball bearings. Tuned pipe and manifold.

Log on to www.rc10.com and get your FREE computer wallpaper!

WARNING!

Do not use a power screwdriver to install screws into nylon, plastic, or composite materials. The fast rotation speed can heat up the screws being installed. They can break the molded parts or strip the threads during installation.

for the pull start version of Team Kit #2030:

Glow plug starter.

Model car fuel. Fuel bottle. Receiver battery pack. Glow plugs (AE #MC-59). R/C two channel surface frequency radio system with two servos. .12 or .15 c.i. glow fuel R/C engine.

200mm touring car body.

for the non pull start version of Team Kit #2031

Glow plug starter. Model car fuel. Fuel bottle. Receiver battery pack. Glow plugs (AE #MC-59). Starter box or electric hand starter with car starter donut 12 volt battery for starter system. R/C two channel surface frequency radio system with two servos. .12 or .15 c.i. glow fuel R/C engine. 200mm touring car body.

TOOLS SUPPLIED

Allen wrenches (#6950)

.050", 1/16", 3/32", 5/64"

Clutch nut wrench (#1721)

Molded tools (#6956):



Droop gauge (#3987)

Camber/toe-in gauge (#1719)

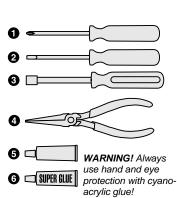


Track width/ride height tool (#1719)

YOU WILL NEED THESE TOOLS TO ASSEMBLE YOUR KIT

- 1 Phillips screwdriver #2.
- 2 1/8" flat head screwdriver.
- 3 5/16" driver or glow plug wrench.
- 4 Needlenose pliers.
- **5** Thread locking compound (#1596 Locking Adhesive or equivalent)
- 6 Super glue or tire adhesive (#1597).
- Hobby knife WARNING! This knife cuts plastic and fingers with equal ease, so be careful.
- Precision ruler.

YOUR ENGINE MAY REQUIRE TOOLS NOT LISTED HERE.



REACHING US

CUSTOMER SUPPORT (714) 850-9342, ext. 624 FAX (714) 850-1744 web site: http://www.rc10.com/



ASSOCIATED ELECTRICS, INC.

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READ THIS BEFORE BUILDING

READ THE MANUAL!

This manual is for two different NTC3 kits and will help you assemble and set up each one. Read the manual before starting your kit and before contacting us for help. "Hello, Associated, I need some help." "Did you read the manual?"

OPEN THE BAGS IN ORDER

The assembly is arranged so that you will open and finish that bag before you go on to the next bag. Sometimes you will have parts remaining at the end of a bag. These will become part of the next bag. Some bags may have a large amount of small parts. To make it easier to find the parts, we recommend using a partitioned paper plate for spreading out the parts so they will be easier to find.

SUPPLEMENTAL SHEETS

We are constantly updating parts to improve our kits. These changes, if any, will be noted in supplementary sheets located in a parts bag or inside the kit box. Check the kit box before you start and each bag as it is opened. When a supplement is found, attach it to the appropriate section of the manual.

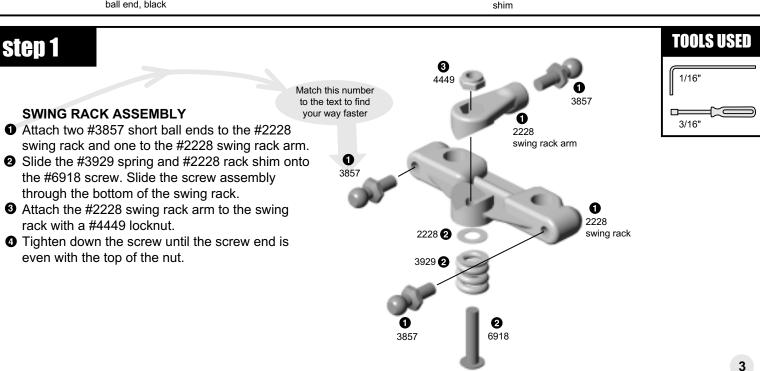
MANUAL FORMAT

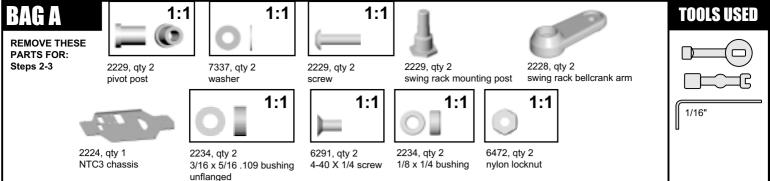
The following explains the format of these instructions.

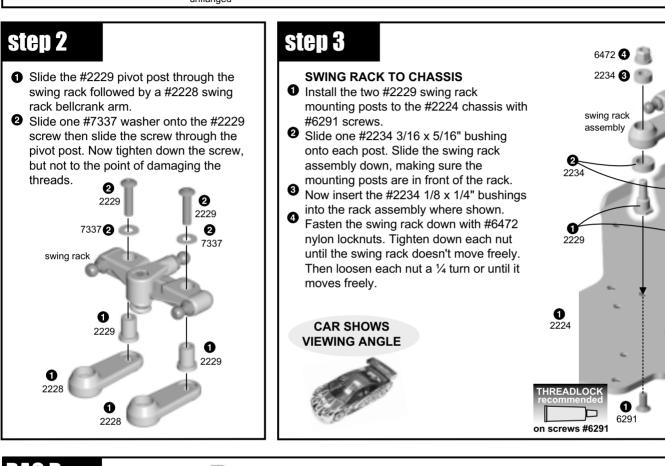
The beginning of each section indicates:

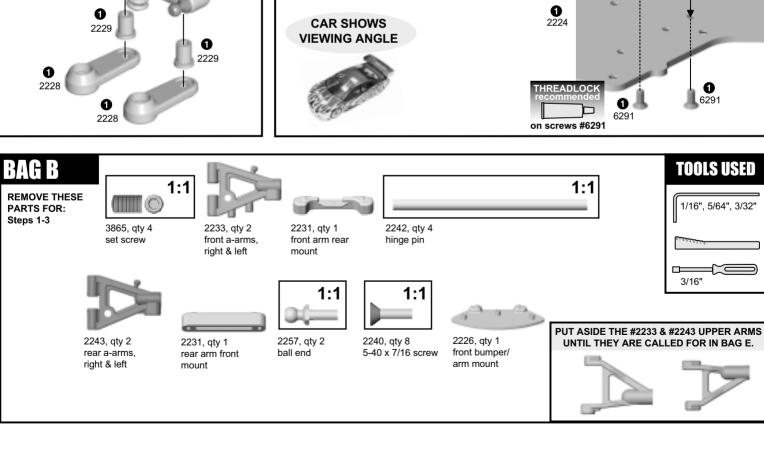
- 1 Which bag to open ("BAG A") and which steps you'll be using those parts for ("FOR STEPS 1-3").
- 2 Which parts you will use for those steps. Remove only the parts shown. "1:1" indicates an actual size drawing; place your part on top of the drawing and compare it so it does not get confused with a similar part.
- **3** Which tools you should have handy for that section.
- **4** The instructions in each step are ordered in the order you complete them, so read the words AND follow the pictures. The numbers in circles are also in the drawing to help you locate them faster.
- **5** When we refer to left and right sides of the car, we are referring to the driver's point of view inside the car.
- **6** You'll see a car angled in a particular direction in several steps. The angle shows you which way the part is being viewed, helping you to tell front and rear, left and right.





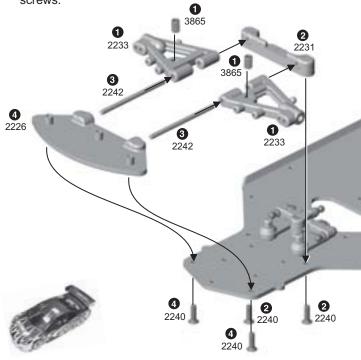






FRONT ARM ASSEMBLY

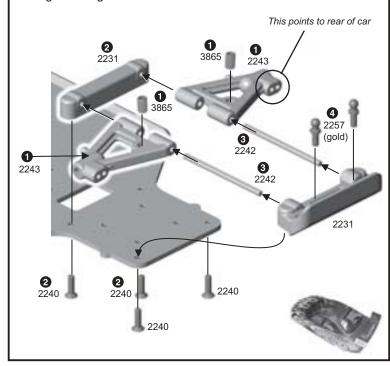
- 1 Install a #3865 set screw into each of the #2233 front arms, making sure there is a right and a left side. (We will do the final screw adjustment in step 3.)
- 2 Attach the #2231 front arm, rear mount to the chassis with two #2240 screws.
- 3 Slide the #2242 hinge pins through the #2233 arms. Slide the pins with the arms into the arm mount.
- 4 Align the #2226 front bumper/ arm mount with the two hinge pins and slide together. Tighten it down with two #2240 screws.



step 2

REAR ARM ASSEMBLY

- Install a #3865 set screw into each of the #2243 rear arms. making sure there is a right and a left side. (We will do the final screw adjustment in step 3.)
- 2 Attach #2231 rear arm front mount to the chassis with two #2240 screws.
- 3 Slide the #2242 hinge pins through the #2243 rear arms. Slide the pins with the arms into the #2231 rear arm front mount.
- 4 Install the two #2257 ball ends into the #2231 rear arm mount. Align the rear arm mount up with the two hinge pins and slide together. Tighten down with two #2240 screws.

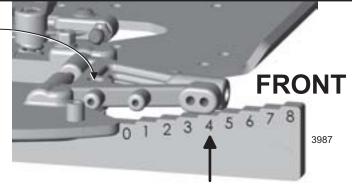


step 3

SETTING DROOP

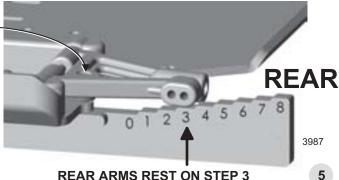
- 1 Place the supplied #3987 droop gauge on a flat surface. Place the bottom of the chassis on top as shown. Make sure the screws are not resting on the gauge and that you are holding the chassis and gauge flat.
- Slide the gauge out so the shock mounting portion of the front arm rests on step 4. With your 3/32 Allen wrench, adjust the set screw so the outer part of the arm just touches the step. Adjust both front arms.
- 3 Slide the gauge to the rear arms and repeat the adjustment. The shock mounting portion of the rear arms will rest on step 3.





FRONT ARMS REST ON STEP 4





REAR ARMS REST ON STEP 3





2329, qty 2 ring gear

6591, qty 1 Tranny lube

6909. atv 4 3/16 x 5/16 bearing unflanged

1:1

1:1

2332. atv 2

friction disc

1:1 6581, qty 24

1:1



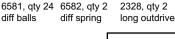
2328. atv 2



TOOLS USED







6588, qty 1

6574. atv 12 black grease thrust balls

2328. atv 2

short outdrive outdrive shim

2293, qty 4

1:1

2330, qty 2 T-nut

3976, qty 4 3/8 x 5/8 bearing rubber sealed, unflanged

2331, qty 4 drive ring



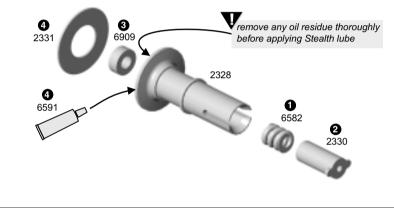
diff bolt



step 2

LONG OUTDRIVE

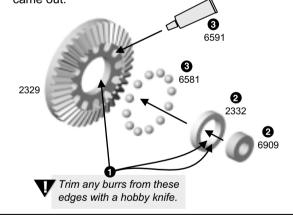
- Remove any oil residue thoroughly where shown. With a pair of pliers, compress the #6582 spring a few times. Push the #6582 diff spring into the #2328 long outdrive.
- Slide the #2330 T-nut into the long outdrive.
- 3 Insert one #6909 bearing into the face of the long outdrive.
- 4 Add a light coat of #6591 dif lube to the long outdrive face as shown. Place a #2331 drive ring on the outdrive face.



step 1

DIFFERENTIAL RING GEAR

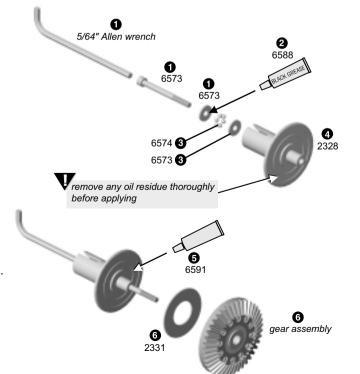
- Trim any burrs from the edges shown with a hobby
- 2 Slide a #6909 bearing into the #2332 friction disc. Slide the bearing and disc into the center of the #2329 ring
- 3 Add a generous amount of #6591 dif lube to the #2329 ring gear holes and friction disc. Push in the twelve #6581 diff balls. Now push the lube back in that came out.



step 3

SHORT OUTDRIVE

- Remove any oil residue thoroughly where shown. Hold the #6573 diff bolt with your 5/64" Allen wrench and slide one #6573 thrust washer onto the #6573 diff bolt.
- 2 Apply a generous amount of #6588 black grease to the washer on the side facing away from the bolt head.
- 3 Place six #6574 balls into the grease against the #6573 bolt and washer. Add the second #6573 washer. The grease will hold the balls in place during assembly, sandwiching the balls and washers.
- 4 Slide the thrust assembly into the #2328 short outdrive, being careful not lose any of the balls.
- 6 Add a light coat of #6591 lube to the short outdrive face as shown.
- 6 Place a #2331 drive ring and then the gear assembly on the outdrive. 6



1 Holding the short outdrive assembly still with your 5/64" Allen wrench, place the long outdrive assembly into the face of the short outdrive / gear assembly.

CHECK THE ALIGNMENT

2 Tighten the diff together with your 5/64 Allen wrench, but not completely.

NOTE: You may need to hold the T-nut in place when assembling the two outdrives.

3 Rotate the diff hubs several times as you are tightening the bolt to check proper alignment of the parts. READ STEP 4 CAREFULLY.

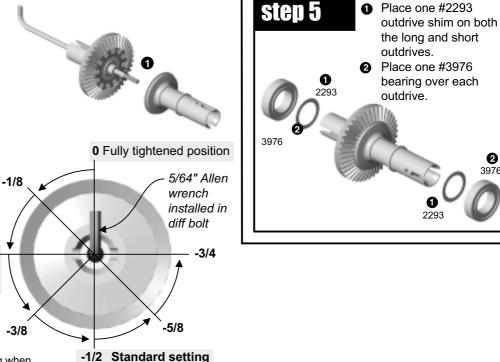
ADJUST THE DIFF

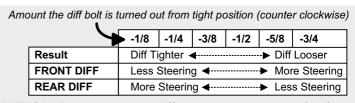
4 As you tighten the diff bolt, you will notice the T-nut ears moving closer to the bottom of the outdrive slot. This

Standard setting for FRONT DIFF compresses the spring behind the T--3/8 nut. The spring should be fully compressed at the same time the T-nut reaches the end of the slot. CAUTION: Pay close attention to the feeling when the spring is fully compressed. Do not overtighten the bolt. When you feel the spring fully compressed, loosen the diff bolt 1/4 of a turn for the front and 1/2 of a turn for the rear. Your diff should now operate very smoothly with the outdrives moving in opposite directions. After you have driven the car once, recheck the diff adjustment.

5 Now assemble the second diff the same way.

Once you have fully tightened the diff bolt and spring, use the chart at right to fine tune your NTC3 settings.





CAUTION: Do not turn the diff bolt out more than 3/4 of a turn.

REMOVE THESE PARTS FOR: Step 6

> 3920, qty 1 front input shaft



input shaft shim



6299, qty 1 small E-clip



3977, qty 2 3/16 x 3/8 bearing, rubber sealed



3903, qty 1 drive pinion



2270, qty 1 drive cup

for REAR DIFF



6920, qty 1 4-40 x 3/16 screw



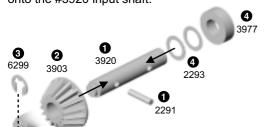
dowel pin

step 6

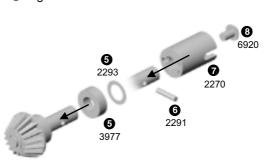
Trim any burrs from this edge of the drive pinion with a hobby knife.

FRONT INPUT SHAFT ASSEMBLY

- Install and center the #2291 dowel pin into the #3920 front 0 input shaft.
- Trim burrs from the drive pinion edge where shown above. Slide the #3903 drive pinion onto the input shaft. Make sure the dowel pin aligns perfectly with the slot in the pinion.
- Add the #6299 small E-clip.
- 4 Slide two #2293 input shaft shims and one #3977 bearing onto the #3920 input shaft.



- **5** Slide the second #3977 bearing onto the input shaft, followed by the third #2293 input shaft shim.
- 6 Install and center the #2291 dowel pin into the input shaft.
- Slide a #2270 drive cup onto the end of the input shaft.
- 3 Tighten it down with one #6920 screw.

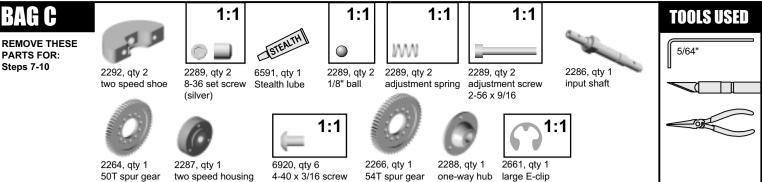


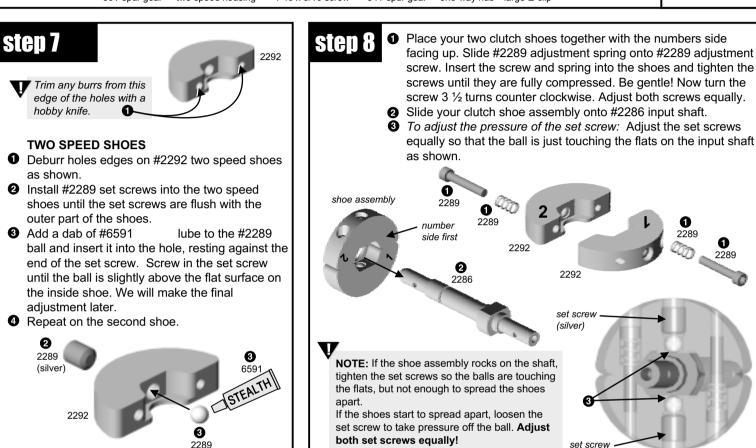


TOOLS USED

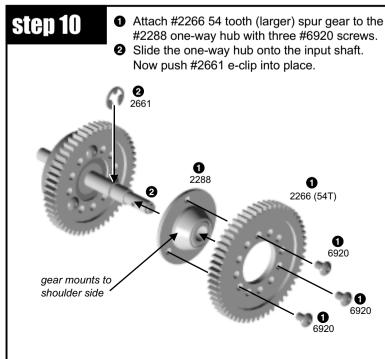
PLEASE COMPARE YOUR ASSEMBLY **CAREFULLY**

7











3977, qty 2 3/16 x 3/8 bearing, rubber sealed



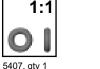


brake disc

2291, qty 2 dowel pin











drive pinion





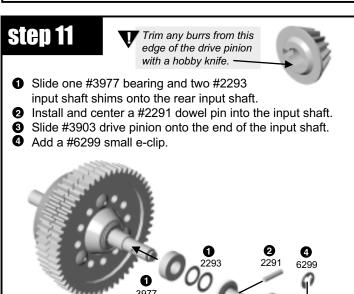
1:1

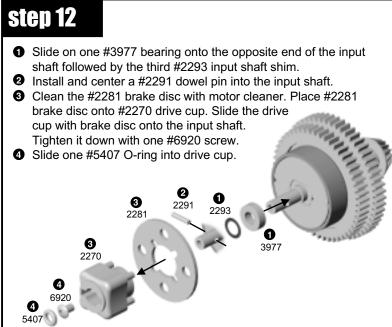


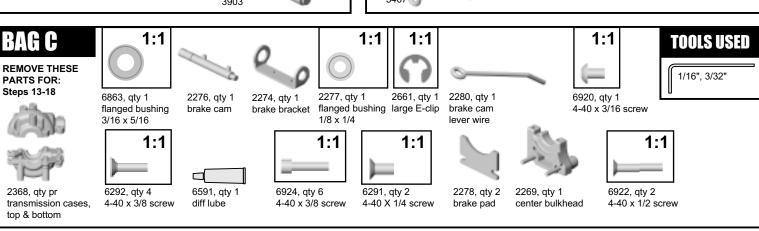
1:1

drive cup small E-clip

4-40 x 3/16 screw

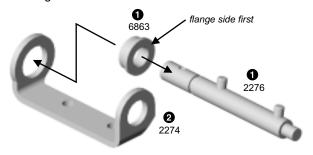






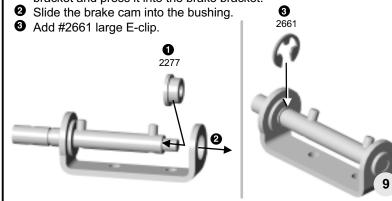
step 13

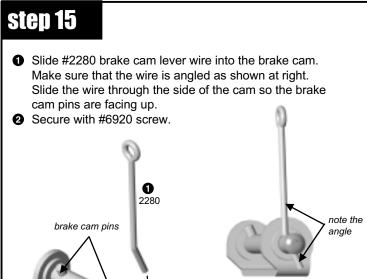
- 1 Slide #6863 bushing onto the end of the #2276 brake
- Angle the brake cam with bushing and slide it through the large hole of the #2274 brake bracket. Press #6863 bushing into the brake cam while still on the brake cam.

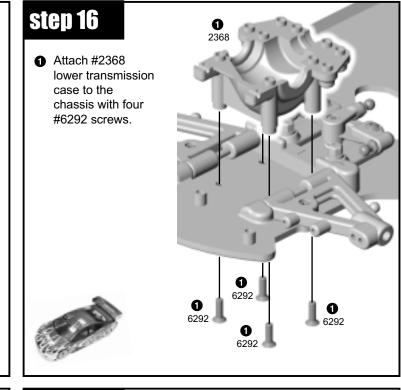


step 14

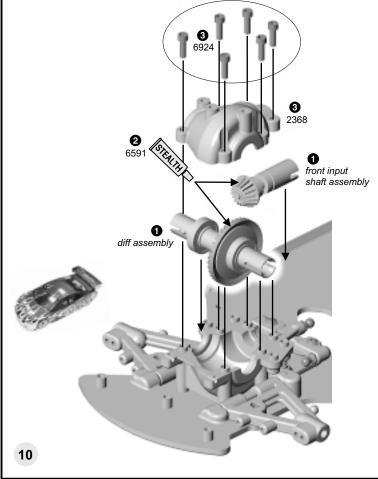
 Place #2277 bushing in between the brake cam and brake bracket and press it into the brake bracket.







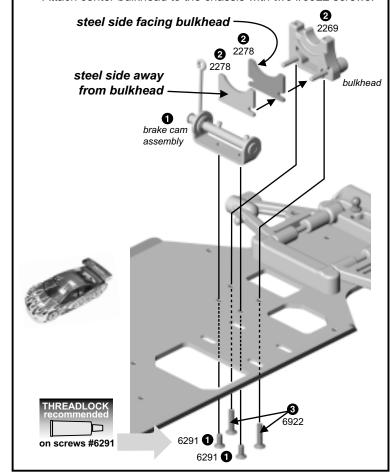
- Place the front diff assembly and front input shaft assembly into the lower transmission case.
- 2 Squeeze four beads of #6591 diff lube equally spaced apart to the front side of the ring gear and pinion gear.
- Attach the #2368 upper transmission case to the lower case with six #6924 screws. **Do not overtighten.**



step 18

on screw #6920

- Attach the brake cam assembly to the chassis with two #6291 screws
- 2 Slide one #2278 brake pad (steel side facing bulkhead) onto the #2269 center bulkhead. Slide the second #2278 brake pad (steel side facing away from bulkhead) onto the #2269 center bulkhead.
- Attach center bulkhead to the chassis with two #6922 screws.



REMOVE THESE PARTS FOR: Steps 19-21



case



6292, qty 4 4-40 x 3/8 screw



6591, qty 1 Stealth lube



4-40 x 3/8 screw



bearing cap

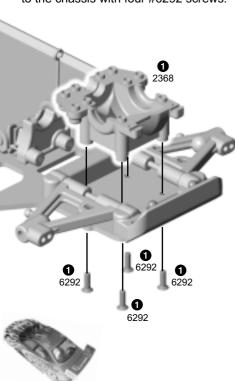
6924 ¶

1/16", 3/32"

TOOLS USED



1 Attach #2368 lower transmission case to the chassis with four #6292 screws.



step 20

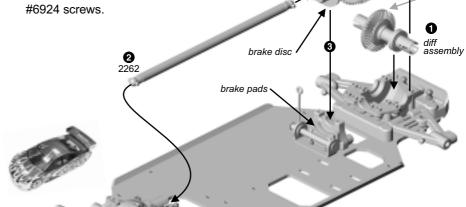
 Place the diff assembly into the lower transmission case.

2 Place one end of the #2262 drive shaft into the rear input shaft assembly. The shaft may be a slightly snug fit in the cup. Install the opposite end into the front drive

3 Set the input shaft into place, making sure the brake disc is placed in between the brake pads.

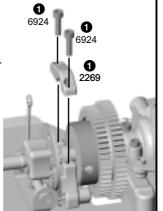
4 Squeeze four beads of #6591 diff lube equally spaced apart to the front side of the ring gear and pinion gear.

5 Attach #2368 upper transmission case to the lower transmission case with six



step 21

1 Align the #2269 bearing cap over the bearing and attach with two #6924 screws. Do not overtighten.







2254, qty pr rear chassis braces, left & right



6917, qty 8 4-40 x 3/8 screw handle



6292, qty 6 4-40 x 3/8 screw

1:1



red O-ring



1/16", 3/32"



7413, qty 4 4-40 x 3/4 screw



tower (front or rear)



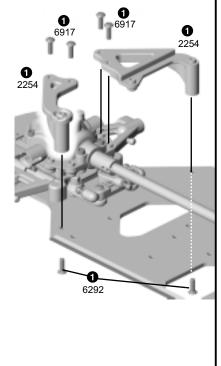
4-40 nut

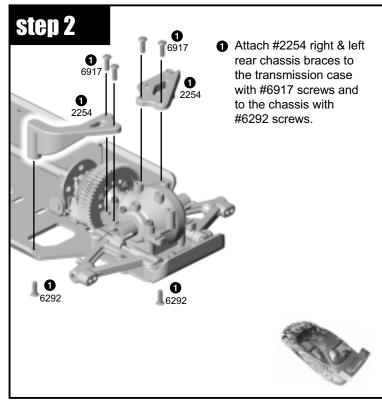


6924, qty 6 4-40 x 3/8 screw

step 1

Attach #2254 right & left front chassis braces to the transmission case with #6917 screws and to the chassis with #6292 screws.

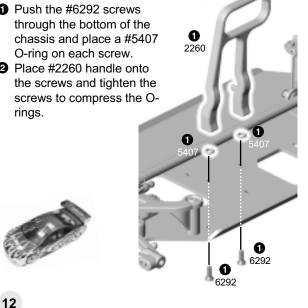




step 3

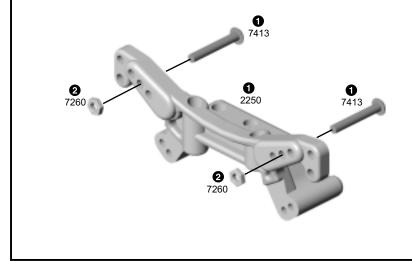
1 Push the #6292 screws through the bottom of the

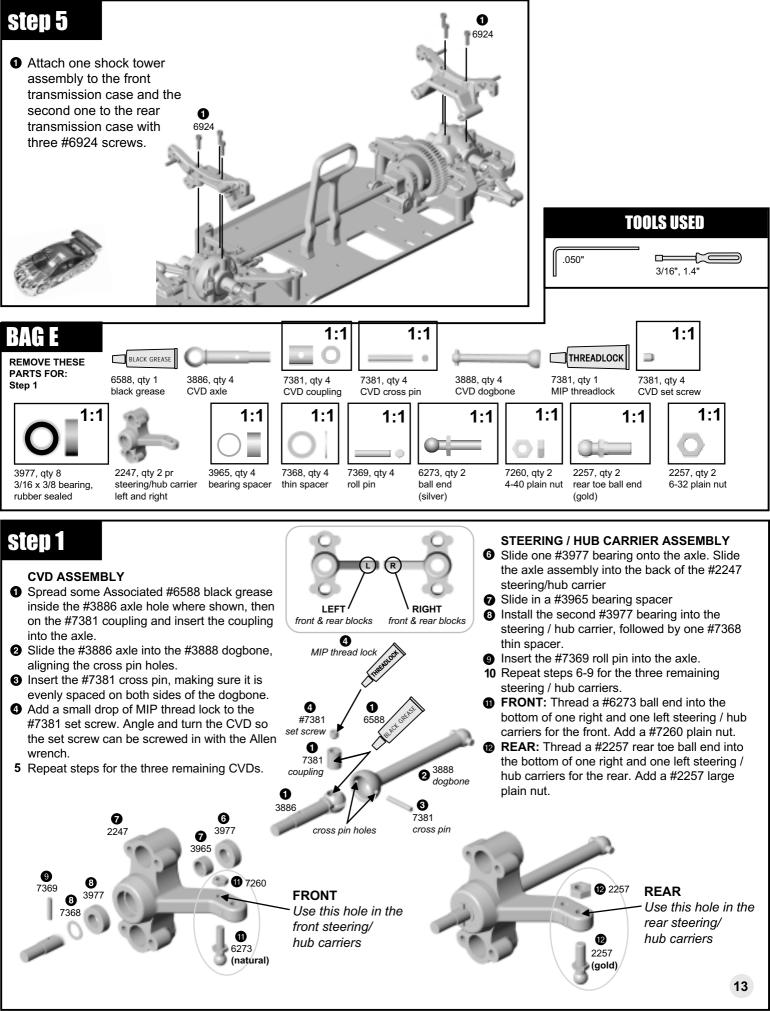
2 Place #2260 handle onto rings.



step 4

- 1 Install the #7413 screws through the middle hole on the #2250 front / rear tower.
- 2 Then thread on the #7260 nuts and tighten.
- 3 Repeat step for second tower.





BAG E

REMOVE THESE PARTS FOR: Steps 2-4



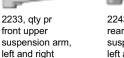
2246, qty 8 2249, qty 8 pivot ball socket cap



6924, qty 16 4-40 x 3/8 screw

Compare the front and rear upper arms.
Opening A (front upper arm) is wider than opening B (rear upper arm)





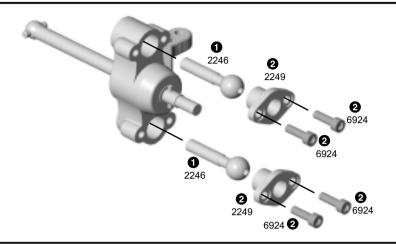
2243, qty pr rear upper suspension arm, left and right





step 2

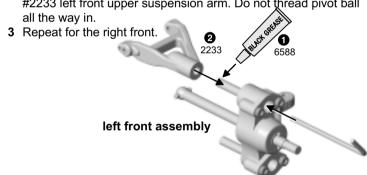
- Insert one #2246 pivot ball into the upper socket and one into the lower socket of the steering / hub carrier assemblies.
- Insert the #2249 socket caps and secure them down with #6924 screws. Tighten the socket cap screws so that the pivot ball moves freely without any binding or excess play.
- 3 Repeat for the remaining three steering / hub carriers.



step 3

FRONT UPPER SUSPENSION ARM

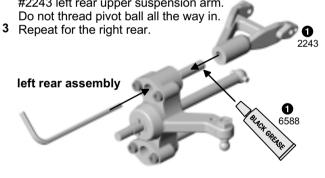
- Add a small amount of #6588 black grease to the end of the threads on the pivot ball.
- 2 Use your 5/64" Allen wrench to screw the pivot ball into the #2233 left front upper suspension arm. Do not thread pivot ball all the way in.



step 4

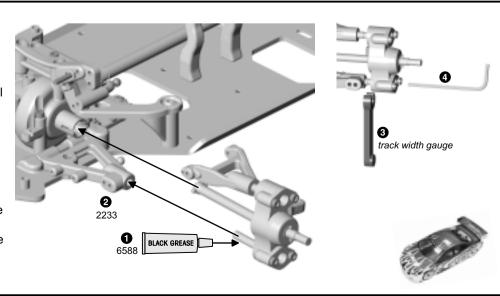
REAR UPPER SUSPENSION ARM

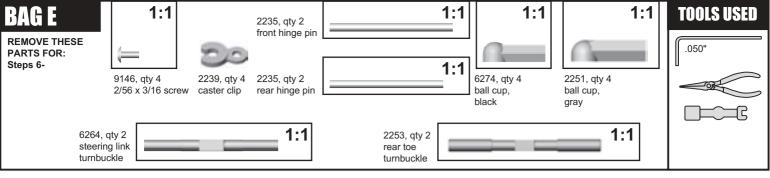
- Add a small amount of #6588 black grease to the end of the threads on the pivot ball.
- 2 Use your 5/64" Allen wrench to screw the pivot ball into the #2243 left rear upper suspension arm.



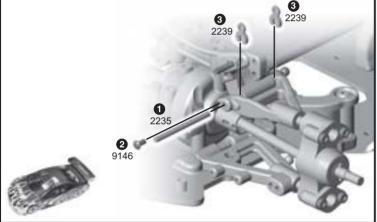
step 5

- Add a small amount of #6588 black grease to the end of the threads on the pivot ball.
- 2 Use your Allen wrench to screw the pivot ball into the #2233 front lower suspension arm.
- Slide your supplied track width gauge in between the steering / hub carrier assembly and the lower arm.
- Use your 5/64" Allen wrench to tighten the pivot ball until the gauge is sandwiched in between the two.
 - Turn the pivot ball counter clockwise until the gauge can be removed.
- **5** Repeat for the lower suspension arms for the right front, left rear, and the right rear.



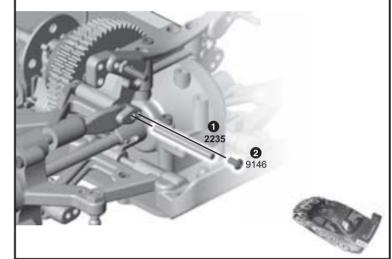


- Line up the #2233 front upper suspension arm with the inner hole on the shock tower, making sure the CVD dogbone is in the slots of the outdrive. Push a #2235 hinge pin into the arm and the shock tower.
- 2 Fasten #9146 screw into the upper arm. The screw holds in the hinge pin.
- 3 Clip in the two #2239 caster clips. Place one on each side of the tower. This sets your caster at 9 degrees.
- 4 Repeat step 6 for the right front.



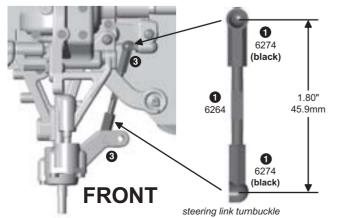
step 7

- Line up the #2243 rear upper suspension arm with the inner hole on the shock tower, making sure the CVD dogbone is in the slots of the outdrives. Push #2235 hinge pin into the arm and the tower.
- 2 Fasten #9146 screw into the upper arm.
- 3 Repeat step 7 for the right rear.



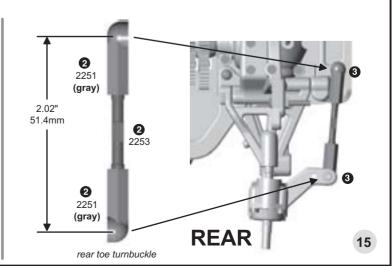
step 8

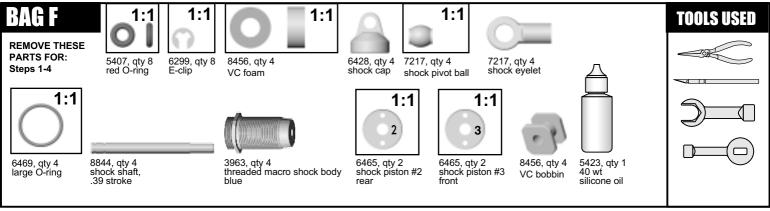
- Twist the #6274 ball cups onto the #6264 turnbuckle until you get the dimension shown (steering turnbuckle). Assemble both turnbuckles.
- Twist the #2251 gray ball cups onto the #2253 rear toe turnbuckle until you get the dimension shown (rear toe turnbuckle). Assemble both turnbuckles. This results in 2° rear toe.
- Snap all four turnbuckles into place where shown.

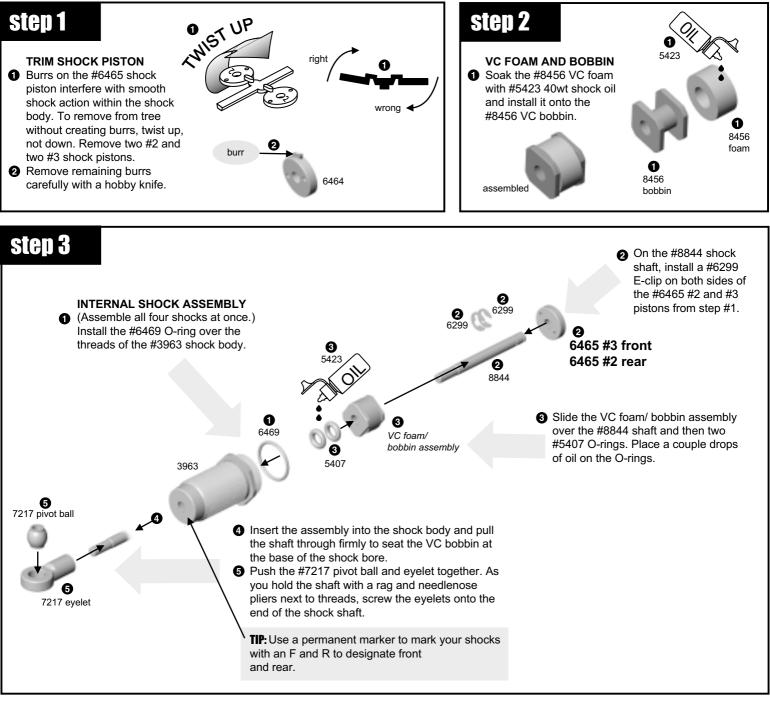


To screw ball cup onto turnbuckle:

- 1. Grip middle of turnbuckle with needlenose pliers.
- 2. Thread on ball cup by hand at first, then use turnbuckle tool to finish.
- 3. Squeeze turnbuckle onto ball end with needlenose pliers.







step 1

Holding the shock upright, fill with oil to the top of the body.



Slowly move the shaft up and down several times to allow air bubbles to escape to the top.



3 Refill with oil to the top of the body.



Push the shaft up until the piston is level with the top of the body. The oil will bulge up above the shock body.



spring, copper, front

Fill The #6428 shock cap about halfway with oil and install onto the body. Try to retain as much oil as possible during assembly. The shaft will extend out as you tighten the cap down.





SETTING THE REBOUND

Move the shock shaft in and out a few times an then push it all the way in. It should be easy to push the shaft in until the eyelet hits the body



7 Then the shaft should push itself out to its full length very slowly.



If the shock does not push out this far there is not enough oil in it. Add a drop of oil and try steps 6-7 again.



9 If the shock rebounds too fast, or you cannot push the shaft in until the eyelet hits the body, there is too much oil. Loosen the cap about a full turn and pump out a small amount of oil by pushing the shaft in. Retighten the cap and try steps 6-7 again.

Too much oil in the shock will result in leakage.

BAG

REMOVE THESE PARTS FOR: Steps 5-8



6925, qty 4 4-40 x 1/2 screw



6473, qty 4 shock bushing



6472, qty 4 shock nut, small



3963, qty 4 shock collar



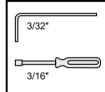
3959, qty 4 shock collar O-ring



6475, qty 4 spring cup



3944, qty 2 spring, gold, rear



TOOLS USED

step 5

Slide one #3959 black O-ring into the groove in the #3963 threaded shock collar.



Put one drop of oil on the O-ring before you thread on the shock collar.



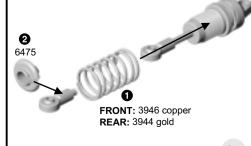
Thread on the shock collar. Make sure that the shoulder is facing down when threaded on the body.



step 6

Slide the #3946 copper springs on the front shocks, and #3944 gold springs on the rear shocks.

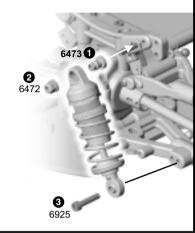
2 Compress the spring to add the #6475 spring cup to all four shocks.



17

FRONT SHOCK MOUNTING

- Add the #6473 shock bushing to the front shock tower screw shown.
- Push the shock cap over the bushing and add a #6472 shock nut. Do not over tighten or the shock will bind.
- Fasten the shock eyelet into the outer hole of the arm with a #6925 screw.
- 4 Repeat steps for second front shock.

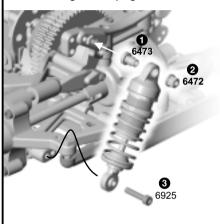


step 8

REAR SHOCK MOUNTING

- ◆ Add the #6473 shock bushing to the rear shock tower screw shown.
- Push the shock cap over the bushing and add #6472 shock nut. Do not over tighten or the shock will bind.
- Section Teach State 1 in the shock eyelet into the outer hole of the arm with a #6925 screw.
- 4 Repeat steps for second rear shock.

Your front and rear shock collars set ride height. For more information on ride height, see page 30.



BAG G

REMOVE THESE PARTS FOR: Step 1



7673, qty 3 4-40 x 5/16 screw



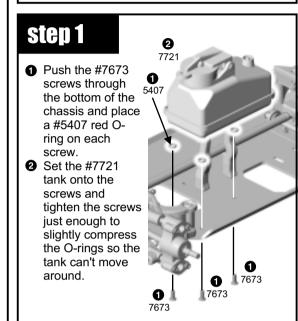
5407, qty 3 red O-ring

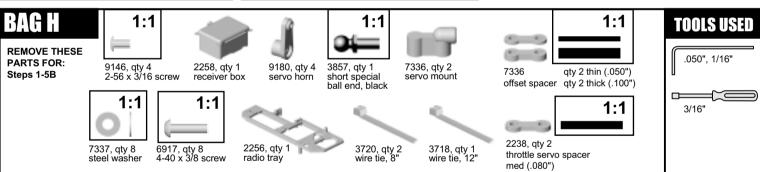


TOOLS USED

7721, qty 1 fuel tank

1/16"





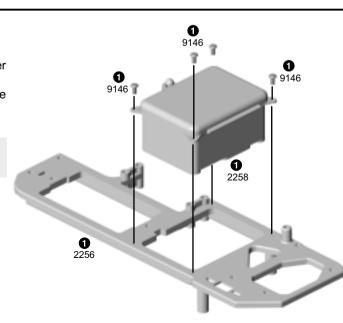




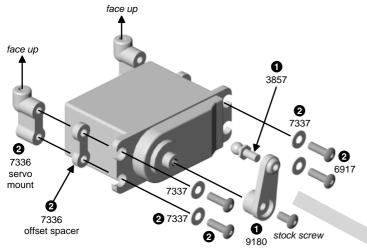
 Insert #2258 receiver box into the #2256 radio tray and secure with four #9146 screws.

step 1

CAUTION: The box will fit tight.

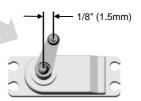


- Find the appropriate #9180 servo horn for your servo from the chart at right. Install the #3857 short ball end into the servo arm. Fasten the servo arm down with the stock mounting screw that came with your servo. DO NOT POINT IT STRAIGHT UP! See below for correct angle.
- Pind the appropriate thick or thin #7336 offset spacer for your servo from the chart at right. Attach the spacer if any, in between the #7336 mount and the servo with the #7337 washers and #6917 screws.



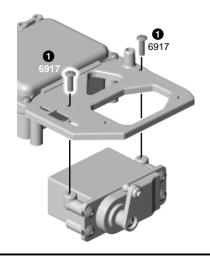
See Radio Adjustments section of manual for more info on correctly setting steering linkage.

STEERING SERVO TYPE	#7336 SPACER	#9180 SERVO ARM
Airtronics 94102	no spacer	Α
Airtronics 94738, 94157, 94158, 94257, 94258, 94357, 94358, 94452, 94453, 94751, 94755	thick spacer	A
Hitec HS-5625MG, HS-5645MG, HS-625MG, HS645MG	no spacer	н
Hitec HS-303, HS-300BB, HS-945MG, HS-925MG, HS- 5945MG, HS-5925MG, HS-525MG, HS-525BB, HS- 425BB, HS-422	thin spacer	Н
JR Z4725, Z4750, Z2750, Z8450, Z8550, NES-4750	no spacer	J
JR Z250, Z550	thin spacer	J
Futaba S9204, S9250, S9450, S148	no spacer	F
Futaba S3003, S9202, S9101	thin spacer	F
Futaba S9404	thick spacer	F
KO PS-401, PS-2001, PS-2004, PS-2015, PS-2173, PS- 2174, PS-2123, PS-2143, PS-2144	thin spacer	J

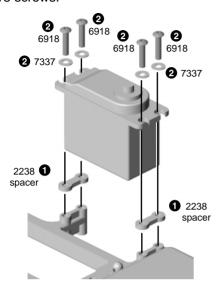


step 3

1 Attach the servo to the radio tray with two #6917 screws.



◆ Look at the chart at right to see if a #2238 spacer is needed for your throttle servo. Attach the spacer if any, in between the radio tray and servo with the #7337 washers and #6918 screws.



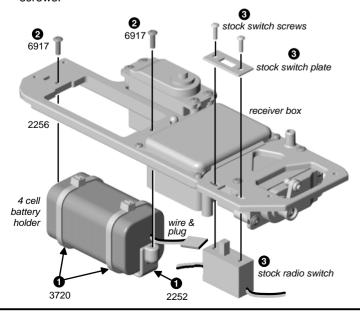
THROTTLE SERVO TYPE	#2238 SPACER	SERVO HORN
Airtronics	no spacer	Α
94102	по зрассі	(
Airtronics	spacer	Α
94738, 94157, 94158, 94257, 94258, 94357, 94358,	эрассі	_ ^
94452, 94453, 94751, 94755		
Hitec	no spacer	н
HS-5625MG, HS-5645MG, HS-625MG, HS645MG	no opaco.	
HS-303, HS-300BB, HS-945MG, HS-925MG, HS-		
5945MG, HS-5925MG, HS-525MG, HS-525BB, HS-		
425BB, HS-422		
JR	no spacer	Α
Z4725, Z4750, Z2750, Z8450, Z8550, NES-4750		
JR	spacer	Α
Z250, Z550		
Futaba	no spacer	F
S9204, S9250, S9450, S148, S3003, S9202, S9101		
Futaba	spacer	F
S9404		
КО	spacer	Α
PS-401		
КО	no spacer	Α
PS-2001, PS-2004, PS-2015, PS-2173, PS-2174, PS-		
2123, PS-2143, PS-2144		

CHOOSE ONE OF THE STEPS BELOW DEPENDING ON HOW YOUR RECEIVER BATTERIES MOUNT

step 5A

USING A BATTERY HARNESS OR 5 CELL HUMP PACK

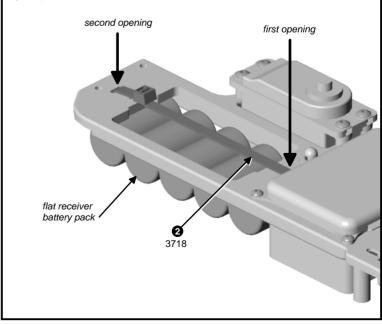
- Place your batteries into your stock radio battery harness. Attach your harness to the #2252 battery mount with two #3720 wire ties, making sure the harness wires are facing the receiver box.
- Place the battery harness assembly up into the radio tray and fasten down with #6917 screws.
- Attach the switch to the radio tray with the stock switch screws.

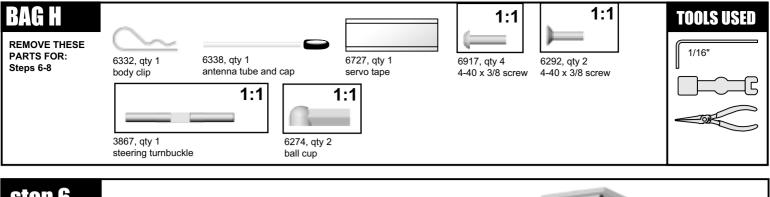


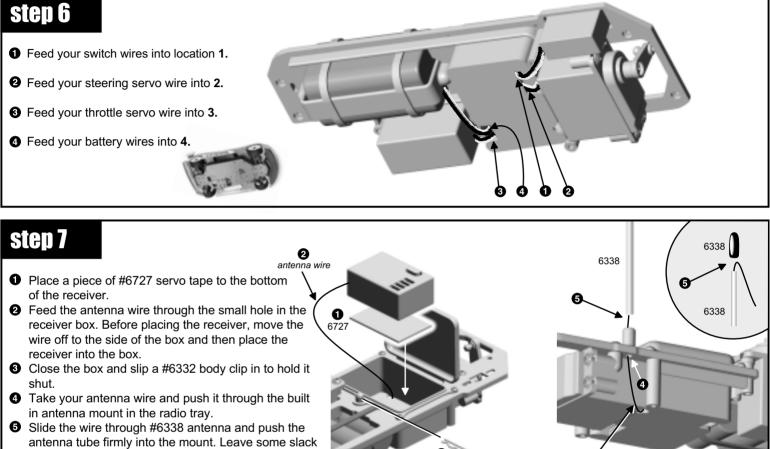
step 5B

USING A FLAT 5 CELL RECEIVER PACK

- Place the receiver battery underneath the radio tray as shown, making sure to place it so the battery wire is facing the receiver box.
- Secure it down with #3718 wire tie by sliding the tie into the first opening and wrapping it around the battery and sliding it up through the second opening.
- VIf you use a switch see step 5 #3 at left.







4 1 Twist #6274 ball cups onto the #3867 6917 turnbuckle until you get the dimension shown. 2 Snap one end of the ball end onto the servo arm. 3 Place the radio tray temporarily on the

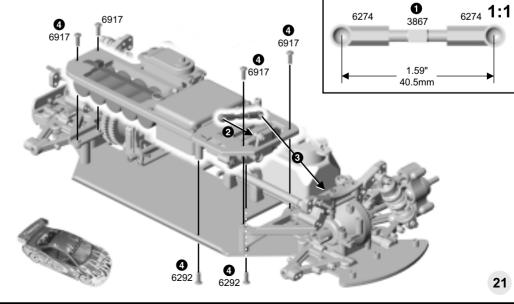
chassis. Snap the second end of the turnbuckle onto the ball end of the swing rack. Now place the radio tray into place.

at the bottom. Do not cut off excess antenna wire. Cap

the other end with the black rubber cap.

step 8

4 Before attaching screws make sure the wires from your receiver box are lying flat so they won't get smashed. Attach the radio trav with four #6917 screws for the top and two #6292 screws for the bottom.



6332

leave some slack at the bottom

If you are using a rotary style carburetor start at step 1. If you are using a slide carburetor start at step 2.



1:1

1:1



2313, qty 1

2312, qty 1 standard clutch nut

2306, qty 2 clutch spring

TOOLS USED



PARTS FOR: Steps 1-4

2326, qty 1 2-56 ball end

2326, qty 1 2-56 plain nut

engine mounts

7618, qty 1 collet

SG clutch nut 1:1

1:1

2310, qty 2

2322, qty 1 non pull start flywheel

2323, qty 1 flvwheel

2340, qty pr 2341, qty pr pull start

engine mounts

2320, qty 1

unflanged bearing 5 x 10 x 4

2320, qty 1 flanged bearing 5 x 9 x 3

clutch shoe





2299, qty 1 26 tooth pinion

2297, qty 1 2295, qty 1 22 tooth pinion clutch bell

non pul



7874, qty 4 4-40 x 7/16 screw



7773, qty 4

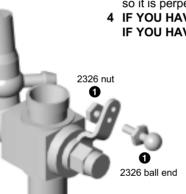


sten 1

2321, qty 2 SG shim

ROTARY CARB ONLY

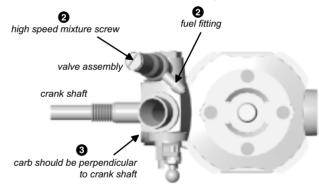
Attach a #2326 2-56 ball end and a #2326 2-56 plain nut to the lower hole in the throttle arm pivot. If the hole is too small for the ball end, drill it out with a #43 or a 3/32 drill bit. Be careful not to get any metal or plastic shavings into the carb opening.



2 Use a wrench to loosen your high speed mixture screw. Turn the valve assembly until the fuel fitting is facing the direction shown below, then retighten the valve assembly.

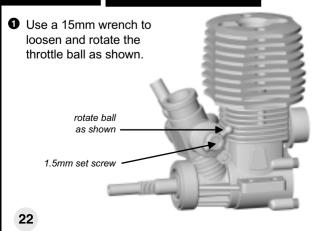
Solution Loosen the screw or clamp bolt that holds the carburetor in place. Rotate the carb so it is perpendicular to the crank shaft as shown.

4 IF YOU HAVE AN SG CRANK SHAFT, GO TO STEP 3. IF YOU HAVE A STANDARD SHORT CRANK SHAFT, GO TO STEP 4.

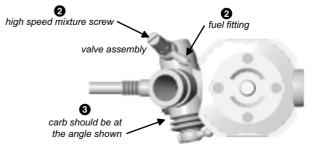


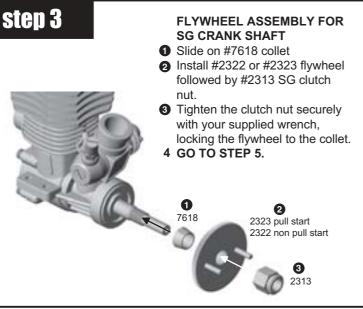
step 2

SLIDE CARB ONLY



- 2 Use a wrench to loosen your high speed mixture screw. Turn the valve assembly until the fuel fitting is facing the direction shown below, then retighten the valve assembly.
- 3 Loosen the screw or clamp bolt that holds the carburetor in place. Rotate the carb so it is angled as shown below.
- 4 IF YOU HAVE AN SG CRANK SHAFT, GO TO STEP 3. IF YOU HAVE A STANDARD SHORT CRANK SHAFT, GO TO STEP 4.

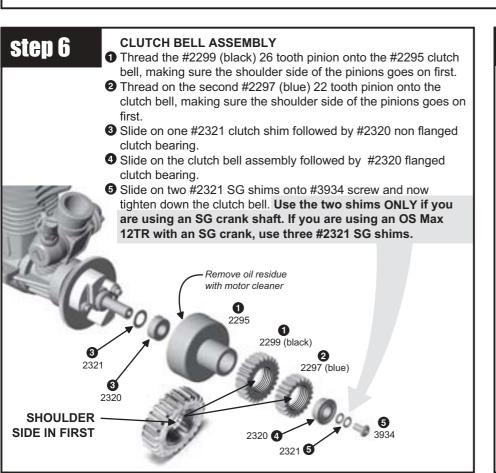


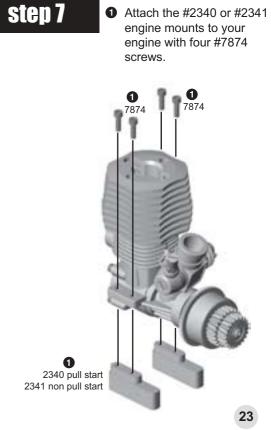




step 5 **CLUTCH SHOE ASSEMBLY** 1 Install your #2310 clutch shoes on the flywheel clutch pins. 2 Place the #2306 clutch springs onto the pins on top of the clutch shoes. Use a flat head screwdriver to snap 2310 the other side of the spring into the groove of the clutch nut, as shown at 2310 far right. 0 2306 clutch nut groove

2306



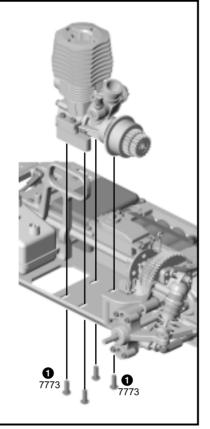


ENGINE INSTALLATION

Place your engine assembly on top of the chassis. Attach the engine to the chassis with four #7773 screws. Do not tighten the screws yet.

GEAR MESH

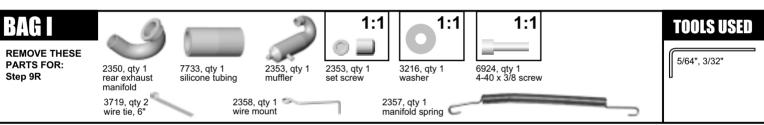
2 Now we set the spur-to-pinion gear spacing, otherwise known as gear mesh. Make sure you can still slide your engine, then mesh the clutch bell pinions with the spur gears. The correct gear spacing is when the pinion is close to the spur gear, but if you hold the pinion gears, you should still be able to rock the spur gears back and forth slightly with light pressure. Roll the gears and check the mesh in several different locations on the spur gear. Now tighten the four motor screws.



step 9

If you have a rear exhaust engine, go to step 9R.

If you have a side exhaust engine, go to step 9S.



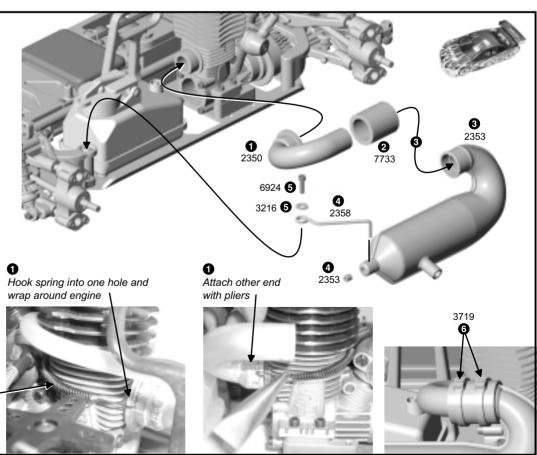
step 9R

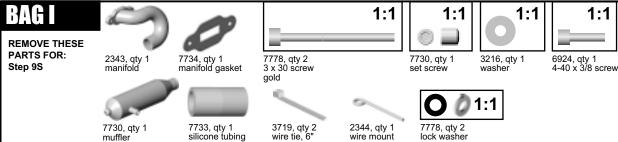
REAR EXHAUST ENGINE

- Attach the #2350 rear exhaust manifold to your engine with #2357 manifold spring--see two photos below.
- 2 Cut a piece of #7733 silicone tubing to 1 inch in length. Slide one end of
- **3** the tubing about half way onto the muffler.
 - Slide the muffler with the tubing over the end of the manifold, making sure the manifold slides all the way into the muffler.
- Slide the #2358 wire mount into the muffler and secure it with a #2353 set screw.
- Attach the other end of the wire mount to the chassis brace with one #3216 washer and one #6924 screw.
- **6** Secure the silicone tubing with two #3719 wire ties.

2357

7 GO TO BAG H STEP 10.





step 98 0 SIDE EXHAUST ENGINE Slide the two #7778 lock washers onto the #7778 screws. Attach the #2343 manifold to the engine with the #7734 manifold gasket in between with two #7778 screws. 2 Cut a piece of #7733 silicone tubing to 1 inch in length. Slide one end of the tubing about half way onto the end of the manifold. 3 Attach #2344 wire mount to the 2343 #7730 muffler with #7730 set screw. Slide the end of the #7730 muffler 3719 **6** 6924 into the end of the tubing on the manifold to 1/8" from the manifold. **5** 3216 **6** Attach the other end of the wire mount to the chassis brace with 0

2344

0

7730

wire mount

REMOVE THESE PARTS FOR: Step 10

screw.

#3719 wire ties.

7724, qty 1 fuel tubing

one #3216 washer and one #6924

6 Secure the silicone tubing with two

muffler

7709, qty 1 wire tie, 4"

TOOLS USED

TOOLS USED

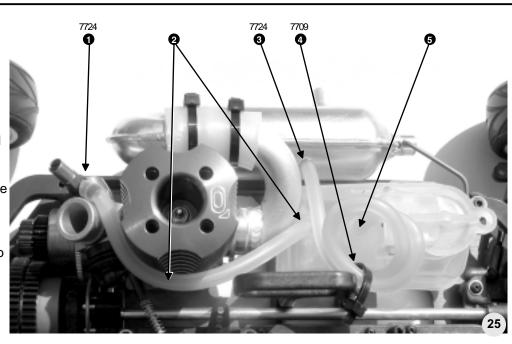
5/64", 3/32"

1:1

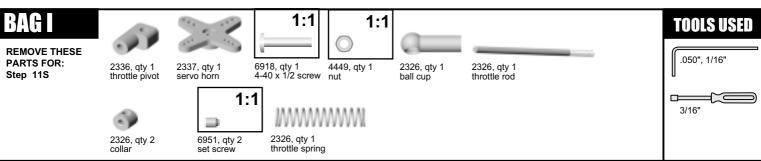
step 10

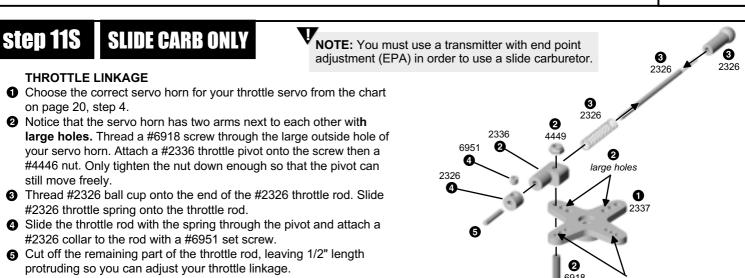
FUEL TUBING

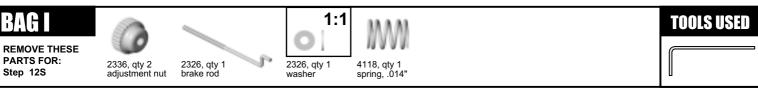
- 1 Cut one piece of #7724 fuel tubing 4 3/4" long. Slide one end onto the fuel fitting on your engine.
- 2 Run the fuel tubing along the side of the engine and place the second end into the first inlet of the fuel tank.
- 3 Cut a second piece of #7724 fuel tubing 10" long. Slide one end into the hole of the muffler about 3/8".
- Wrap the fuel tubing into a small coil and to hold the coil use a #7709 wire tie. Tighten the wire tie just enough to hold the fuel tubing. Don't forget this step.
- 5 Place the second end of tubing into the second inlet on the fuel tank.



If you have a slide carburetor, follow steps 11S-12S. If you have a rotary carburetor, follow steps 11R-12R.



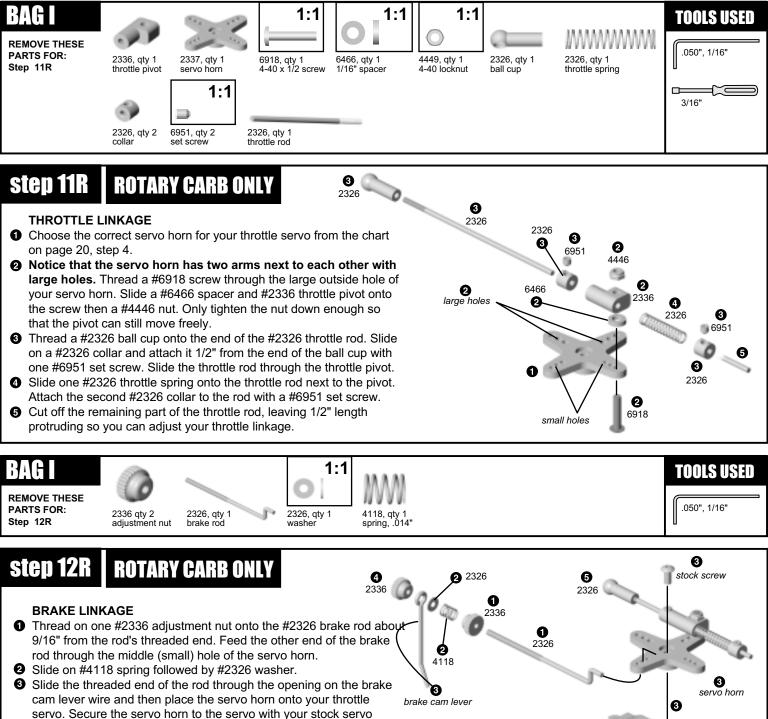




small holes

PARTS FOR: Step 12S 2336, qty 2 2326, qty 1 2326, qty 1 2326, qty 1 spring, .014" STOP 12S SLIDE CARB ONLY

SLIDE CARB ONLY 3 stock screw **BRAKE LINKAGE** 0 1 Thread on one #2336 adjustment nut onto the #2326 brake rod about 9/16" from the rod's threaded end. Feed the other end of the brake 4118 rod through the middle (small) hole of the servo horn. 0 2 Slide on #4118 spring followed by #2326 washer. servo horn 3 Slide the threaded end of the rod through the opening on the brake brake cam lever cam lever wire and then place the servo horn onto your throttle servo. Secure the servo horn to the servo with your stock servo 4 Thread on the second #2336 adjustment nut so that about 1/16" of the brake cam wire protrudes from the end. throttle servo 6 Attach the throttle rod ball cup onto the ball end on the carburetor. SKIP STEP 11R-12R AND GO TO STEP 13.



screw.

Thread on the second #2336 adjustment nut so that about 1/16" of

5 Attach the #2326 ball cup onto the ball end on the carburetor.

the brake cam wire protrudes from the end.

throttle servo

ADJUSTING THROTTLE LINKAGE

- 1 Turn on your transmitter and then the car's electronics (but don't start the engine). When at idle (trigger of transmitter not pulled), adjust the collar so there is 1/16" (1.58mm) of space between the collar and throttle pivot.
- 2 Apply full throttle (pull the trigger of your transmitter all the way back). Your carb should be almost fully open. If it is not, then adjust the collar near the throttle pivot. (You may also adjust your throttle trim according to your radio's instructions.)
- Now apply the brake. Your carb should be in idle position. The spring should not be completely compressed.

SLIDE CARB IDLE

SLIDE CARB **FULL THROTTLE**

SLIDE CARB **BRAKE**

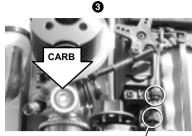
1/16" gap here



front brake nut



2 adjust if carb is not fully open



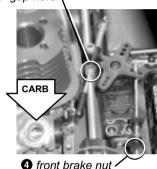
6 adjust collars if spur gear is not hard to move

ROTARY CARB IDLE

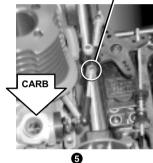
ROTARY CARB FULL THROTTLE

ROTARY CARB

1/16" gap here



adjust if carb is not fully open



BRAKE



6 adjust collars if spur gear is not hard to move

ADJUSTING BRAKE LINKAGE

With the throttle trigger at idle, adjust the front brake nut so the brake is applied slightly. You can test this by turning the spur gear. The spur gear should have some resistance to it. Also, keep about a 1/16 gap between the back nut and the brake cam lever wire.

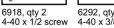
6 Now pull full throttle. The brakes should disengage immediately.

NOTE: Your NTC3 will require 2-3 tanks of fuel to sufficiently seat the brake shoes. The brakes will increase in power as this happens.

6 Now apply the brake fully. Your brakes should fully engage. The spur gear will be hard to move. If it is not engaged, adjust the collars or your setup in your radio to get the brakes to engage properly.

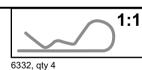












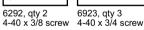
body clip

2232, qty 3

REMOVE THESE PARTS FOR: Steps 1-3

pivoting body mount







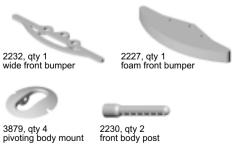
6924, qty 1 4-40 x 3/8 screw

0

rubber pad

.050", 1/16"

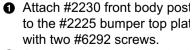
TOOLS USED



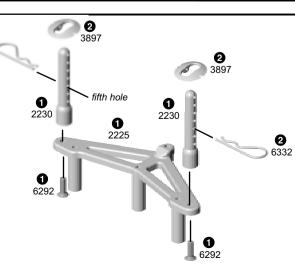


step 1

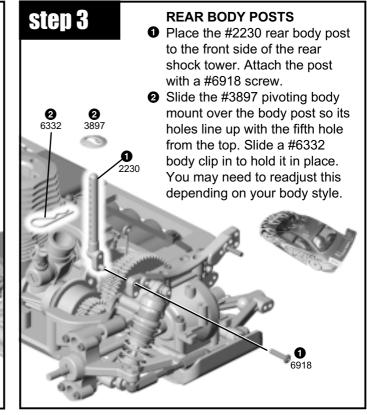
FRONT BODY POSTS



2 Slide the #3897 pivoting bod, mounts over the body post so its holes line up with the fifth hole from the top. Slide in #6332 body clip to hold it in place. You may need to readjust this depending on your body style.



step 2 0 **FRONT BUMPER** Push #2232 rubber pads into the #2232 wide front bumper, making sure the 0 shoulder is facing up. 2232 pads 2 Place the wide front bumper onto the lower front bumper. 3 Slide the #2227 foam front 2232 bumper onto the bumper top plate assembly. Attach the foam and the bumper top plate to the lower bumper with three #6923 screws on the bottom and one #6924 screw on top.



BAG K

REMOVE THESE PARTS FOR: Steps 1-2







0



0



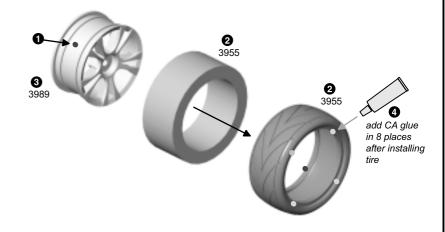
TOOLS USED

step 1

- Make a 1/8" hole in one area of the #3989 TC wheel.
- 2 Push the #3955 foam insert into the #3955 tire. Make sure the insert is centered in the tire.
- 3 Install the #3955 tire and insert onto the #3989 wheel.
- Glue the tire to the wheel with super glue (cyoanacrylate glue or #1597 tire adhesive) in four equally-spaced spots around the tire on both sides. WARNING! Follow the adhesive manufacturer's instructions for proper use and safety. Wear eye and hand protection.

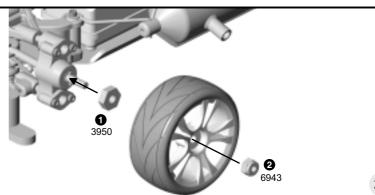
TIP: Place a rubber band around the tire to hold it tight to the wheel while gluing.

5 Repeat steps for the three remaining tires.



step 2

- Install the #3950 wheel hex drive adapter to the axle, lining up the roll pin with the slot in the hex adapter.
- 2 Slide the wheels over the axle and tighten it down with a #6943 lock nut.
- 3 Install the remaining tires.



FINAL ADJUSTMENTS

ADJUSTING CAMBER

To set the camber we recommend using our supplied #1719 camber/rear toe-in gauge. When adjusting camber you need to have the car ready to run with no body.



#1719 camber/rear toein gauge

Make these adjustments before racing

- 1. Set your car on a flat surface.
- 2. When using the camber / rear toe gauge, make sure that the number you want to set it at is at the bottom of the tire. The gauge has 1°,



2°, and 3° notations marked on it. Find the 2° and push it against the tire at the bottom.

Use your 5/64" Allen wrench to adjust the upper pivot ball to get 2°. We recommend 2° for most conditions.

CHECKING REAR TOE-IN

We recommended for you to start with 2° of rear toe-in, which is the default setup in the manual. To check or change rear toe-in use the supplied #1719 camber / rear toe-in gauge.

- 1. Stand your car up vertically on the rear arm mount.
- 2. When using the camber/rear toe gauge, make sure that the number you want to set it at

is down at the bottom of the tire. The gauge has 1°, 2°, and 3° notations marked on it. Find the 2° and push it against the tire at the bottom.



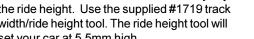
3. Use your supplied #6956 molded turnbuckle wrench to adjust the rear turnbuckle to get the degrees you want.



ADJUSTING RIDE HEIGHT

The collars on the bodies can easily adjust the ride height. Use the supplied #1719 track width/ride height tool. The ride height tool will set your car at 5.5mm high.

1. When adjusting the ride height, have the car





#1719 track width/ride height tool

ready to run with no body.

- 2. Set the car on a flat surface.
- 3. Slide the height gauge underneath the rear of the chassis, as shown. Raise or lower the shock collar until the gauge just touches the chassis. To get a better measurement on the

chassis, you might need to slide the gauge in the corner of the car. Check both corners of the rear.

4. Slide the gauge underneath the front of the car. Check both corners of the front.



CHECK RADIO / LINKAGE SETUP

CAUTION: Always turn your transmitter on first and off last. Remember this rule. If you start your car before turning on your transmitter then you may lose control of the car and damage the engine quickly.

Test the following transmitter functions without the engine started. These following steps will help you understand the operation of your transmitter.

- 1. Turn on the transmitter.
- 2. Turn the car receiver battery pack switch on. Both the steering servo and throttle servo should move to their respective neutral settinas.
- 3. Turn the steering wheel on the transmitter left and right. The front wheels should turn left and right, then return to a perfectly straightahead position when the wheel is released. If they're a little off, set the steering with your steering trim. See your radio instruction

manual for this setting.

- 4. Pull the throttle trigger, which should open the carburetor on your engine.
- 5. Push the trigger forward, which should activate the brakes.

Hold the throttle open and roll the car over the ground. The car should roll freely. While it is rolling, push on the brakes. The car should come to a stop. If these steps do not produce these results refer to the linkage assembly setup in this manual.

ADD AIR FILTER

NEVER run your touring car without an air filter. The filter is essential for keeping the dirt out of the engine. Refer to your engine manual for the recommended air filter for your engine. If you use a foam filter, use Associated's #7710 foam filter treatment.





BODY

This kit accepts most 200mm touring car bodies. See body manufacturer's instructions on trimming and painting the body.

CAR FUEL

The proper fuel is very important for long engine life. Improper fuel can cause hard starting, poor performance, and excessive wear on the engine. The fuels we recommend for R/C car use are: O'Donnell Racing Fuel, Duratrax Red Alert fuel, Blue Thunder Race

Formula, FSR fuel, Trinity, Byron's Originals, Traxxas Top fuel, and Wild Cat fuel. There are many other racing fuels; however, they must meet two requirements:

- 1. The fuel must contain at least 18% of both castor and synthetic oils.
- 2. You should try to keep the nitro (nitromenthane) between 10% to 20%. The

best fuels also contain rust and corrosion inhibitors, anti wear agents, anti foaming agents and lubrication additives.

CAUTION: DO NOT use any type of airplane fuels. Airplane fuels may not have the necessary oil types and ratios needed for R/C cars.

MAINTENANCE

You will find your Nitro TC3 will give you many hours of trouble-free operation when you familiarize yourself with these maintenance procedures.

You should periodically check all the moving parts:

Follow these steps to keep your car in shape for racing

Front and rear a-arms Steering blocks Steering linkage Servo saver Shocks Clutch Brake parts Bushings and bearings and other moving areas.

Check the radio system, the condition of the batteries, the fuel tank, and the hoses for leaks. Also check the firmness of the mounting of the receiver and servos, and check for any frayed wires or loose connections. Because of the vibration of gas engines, check the chassis and other critical screws for tightness after every run.

TUNING & SETUP TIPS

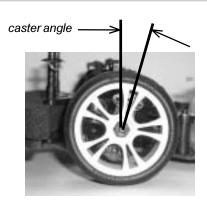
Your car is one of the most tunable touring cars on the market. This section will try to explain the parts and adjustments you can use to tune your car for different track conditions.

CASTER

Caster describes the angle of the kingpin from vertical when looked at from the side of the car. Positive caster means the kingpin leans rearward at the top.

The Nitro TC3 standard kit setup is 9° of caster. The car can be adjusted in 3° increments (6°, 9°, and 12°).

These tips prepare your car for maximum performance

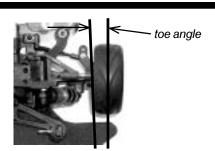


Increasing caster in the nitro TC3 will give your car more turn-in steering, but less steering exiting the corners. It will also be more stable in bumpy conditions. Decreasing caster will give the car less turn-in steering, but will give your car more steering exiting corners. It will be less stable in bumpy conditions.

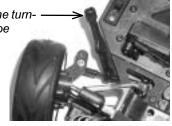
Change the caster by moving the caster clips shown on page 15, step 6. Both clips to the front results in 6° caster. Both clips to the rear results in 12° caster.

FRONT TOE-IN AND TOE-OUT

You can adjust front toe by turning the steering turnbuckles. Toe-in will make your car easier to drive by improving stability during acceleration. Toe-out will increase steering when entering corners, but will be slightly more difficult to drive. We suggest using 0° to 1° toeout on the nitro TC3.



Use this tool on the turnbuckle to adjust toe



ACKERMAN

This is a term describing the effect of the inside front wheel turning tighter than the outside front wheel. The standard setup works best in most conditions and is preferred by most of our team drivers.

By changing the two #3857 special ball ends with two longer neck #6270 ball ends to the swing rack, a more aggressive steering feeling can be achieved. This is because there will be less Ackerman.



Standard Ackerman setup

#6270 silver long ball ends (optional)



Optional Ackerman setup

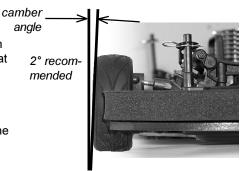
2 SPEED GEARING

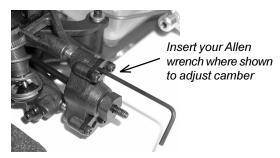
Use the following combination of pinion and spur gears in the 2 speed to maintain the correct gear mesh.

21/27 with 54/48 20/24 with 52/48 20/24 with 54/50 21/25 wtih 52/48 21/25 with 54/50 22/26 with 52/48 22/26 with 54/50 (in kit) 23/27 with 52/48 20/26 with 54/48 23/27 with 54/50

CAMBER

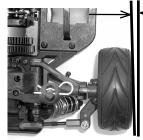
Camber describes the angle the wheels ride relative to the ground when looked at from the front or back. Negative camber means that the tire leans inward at the top. Positive camber means just the opposite, and should not be used. We suggest using 2° to 3° of negative camber on high traction tracks and using 1° to 2° on low traction tracks. Setting the camber was explained to you in Final Adjustments.



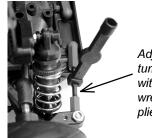


REAR TOE-IN

Toe-in is fully adjustable and can be adjusted by changing the rear turnbuckle length. The setup we recommend is 2° of toe-in on each side. The setting should work best in most conditions. Decreasing the rear toe you will decrease rear traction and add steering. We do not recommend running more than 3° of rear toe-in.



toe angle 2° recommended

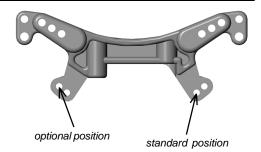


Adjust rear toe by tuming this tumbuckle with your tumbuckle wrench or needlenose pliers

CAMBER LINK LOCATION

The Nitro TC3 has been thoroughly tested to find the best all-around positions. We suggest using the standard setting for almost all conditions.

The optional position will give your car more overall traction in slippery conditions.



DIFF ADJUSTMENT

By adjusting the front and rear diffs, you can control the amount of steering.

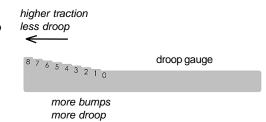
See page 7 for a helpful chart explaining diff settings and their results.

DROOP

Droop can be adjusted on the Nitro TC3 to help speed up or slow down how fast the car changes direction when corning. The NTC3 standard setup is setting 4 in the front and setting 3 in the rear. This will work best in most track conditions. See page 5 for setting droop.

If your track is bumpy, you may want to add droop to your car by going to a lower droop gauge setting.

If your track has very high traction then you what to take droop out of your car by going higher on the droop gauge. Too little droop will cause a loss of traction.

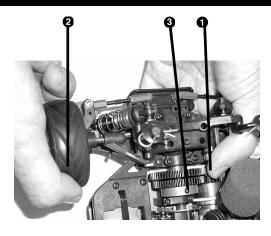


TWO-SPEED ADJUSTMENT

By increasing or decreasing the spring tension you can change the shift point of your two-speed. If you want the car to shift into second gear later, tighten down both screws equally ¼ of a turn to increase the spring tension. If you want the car to shift into second gear sooner, loosen both screws equally ¼ of a turn to decrease the spring tension. Make your adjustments in ¼ turn amounts. Run your car first before you make any adjustments to the two-speed.

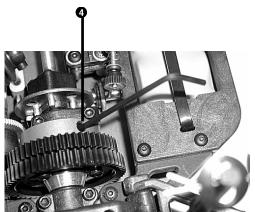
To adjust your 2-speed (turn off your engine):

1. Lift the car and hold the spur gear in place with your thumb, the bell opening (3) facing up.



2. Turn the rear wheel slowly.

3. Watch for the adj. screw to appear in the opening of the 2-speed bell. It will be a black screw, at an angle. When looking at the front of the 2-speed, there will be a number 1 and 2 on the shoes where the adjustment



screws are located.

- 3. Insert your Allen wrench and adjust as needed.
- **4.** Remove Allen wrench and turn the rear wheel again and repeat for the second set screw, adjusting it the same amount.

SHOCK SPRINGS

Shock springs keep your car level during acceleration, deceleration, and cornering.

Stiffer springs will help your suspension respond more quickly, but because of their stiffness will not absorb bumps as well. Use stiffer springs in high traction conditions.

Softer springs are best for slippery or bumpy conditions.

Part #	Color Code	Rating
#3941	Green	12 lbs.
#3942	Sliver	14.5 lbs.
#3943	Blue	17 lbs.
#3944	Gold	19.5 lbs.
#3945	Red	22 lbs.
#3946	Copper	25 lbs.
#3952	Purple	30 lbs.
#3953	Yellow	35 lbs.
#3954	White	40 lbs.

TRACK WIDTH

You can adjust the track width of the NTC3. That is, you can widen the distance between the outside front wheels.

To adjust the track width of your car, see the instructions on page 14.

ANTI-ROLL BARS (optional)

Roll bars are used to stabilize a car from excessive chassis roll (which occurs when your car leans through the turns by centrifugal force). Anti-roll bars are generally used on smooth, high traction track conditions. If the track is bumpy and slippery, then roll bars

If you're driving on a high traction condition and your car wants to oversteer, then use optional #1715 front blade anti-roll bar kit. This will decrease the front chassis roll and decrease steering throughout the corner.

If your car is understeering, then try the optional #3960 anti-roll bar kit in the rear only. The rear anti-roll bar will decrease rear chassis roll and decrease rear traction.





#1715 Front Blade Anti-roll Bar Kit (optional)

are not needed.

CLUTCH ADJUSTMENT

When the engine revs increase, the clutch shoes, attached to the flywheel on the shaft inside the clutch bell, are flung outward by centrifugal force. The shoes engage to the inside of the clutch bell, which in turn power the clutch bell to accelerate the car. The shorter the clutch shoes or the stiffer the clutch spring (optional), the higher the engine must rev before the clutch shoes will engage. This is recommended for lower power engines. The stock (longer) length clutch shoes and stock clutch springs (softer) will have the quickest engagement. This is recommended for most track conditions and high power engines.

To adjust your clutch, you can change the number of shoes, alter their length or change the clutch spring. Changing shoes

A blank setup sheet for the NTC3 is included.

Set up your NTC3 with the standard settings

then deviate from them in response to your

track conditions and driving style, as noted

change at a time, testing it before making an-

other change. Make a copy of the setup sheet

included in the back of this manual to help keep

For best results, make only one setup

Before you make any changes to the stan-

SETUP SHEET

Tips for beginners:

track of your changes.

below.

mainly depends on the current track conditions. The stock clutch springs are recommended for most conditions. In general, the higher the traction the longer the shoes, which prevents tire spinning. To decrease the clutch engagement, try cutting the clutch shoes a little shorter using a hobby knife. Cut to equal lengths. Do not trim away more than necessary or your engine can get damaged due to the engine over-reving.

Optional Parts:

#2324, non pull start 3-shoe flywheel #2325, pull start 3-shoe flywheel #2307, optional clutch springs

STANDARD SETTINGS for rubber

tires (See next page for standard settings for foam tires)

- 1. Front camber: 2°.
- 2. Front camber link: inner hole on tower.
- 3. Front caster: 9°.
- 4. Front toe: 0°.
- 5. Front ride height: 5.5mm
- 6. Front Droop: 4 on droop gauge
- 7. Bump steer spacers: none.
- 8. Ackerman: #3857 ball ends.
- 9. Front anti-roll bar: none.
- 10. Rear camber: 2°.
- 11. Rear camber link: inner hole on tower.
- 12. Rear toe-in: 2°.
- 13. Rear ride height: 5.5mm
- 14. Rear anti-roll bar: none.
- 15. Rear Droop: 3 on droop gauge.
- 16. Driveshafts: MIP CVD's.
- 17. Shock body: alum. macro shock.
- 18. Shock oil: front & rear: 40 wt.
- 19. Shock shaft, front & rear: #8844
- 20. Shock pistons: Front, #3. Rear, #2.
- 21. Shock springs: Front, copper. Rear, gold.
- 22. Shock mounting, front tower, middle hole. Arm, outer hole.
- 23. Shock mounting, rear tower, middle hole. Arm, outer hole.
- 24. Fuel brand: varies.
- 25. Fuel nitro: 20%.
- 26. Engine brand: varies.
- 27. Engine 12 or 15: varies.
- 28. Engine temp: about 220°.
- 29. Pull or non pull start: varies.
- 30. Carb type: varies.
- 31. Clutch shoes: uncut, with STD springs.
- 32. Radio: varies
- 33. Servo: varies.
- 34. 2-speed adj: 3 1/2 turns c-clockwise.
- 35. 2-speed clutch: 22 & 26
- 36. Tires, front: Pro-Line (#3955 STD)
- 37. Tires, rear: Pro-Line (#3955 STD)
- 38. Tire additive: none.
- 39. Inserts: incl. with tires.
- 40. Wheels: Pro-Line.
- 41. Spur gears: 50 & 54.
- 42. Track width: use track width gauge.
- 43. Lead weights: none.
- 44. Chassis: stock
- 45. Body: varies.
- 46. Wing: varies with body.

changes will work if you cannot stay on the

Your goal is consistent lap times. Inconsistent lap times may indicate poor control. When you have consistent lap times, then make changes to your car.

If the change results in a faster lap, then mark the change in your setup sheet. If performance is worse, then revert back to the previous setup and try another change.

Fill out your setup sheet thoroughly when you are satisfied with it and file it away. It can be a practical guide for future track layouts and conditions you encounter.

dard settings, make sure you can get around the track without crashing. None of your setup



Driver	-
Track / City	
Event	Date

FRONT SUSPENSION CASTER6°9° CAMBER° TOE-IN° RIDE HEIGHT mm DROOP BUMP STEER SPACERS	none 3960 kit 1717 front blade kit blade setting ACKERMAN STD (3857 ball ends) opt. (6270 ball ends)	' I I	TOWER MOUNTING inner holeouter hole CAMBER LINKinner holeouter hole ARM MOUNTINGinner holeouter holeouter hole
REAR SUSPENSION CAMBER° TOE-IN° RIDE HEIGHTmm DROOP	ANTI-ROLL BAR BOIL SPE SPE SHAFTS SHA	SHOCKS DY threaded other RING (color) wt TONS # AFTS _unobtainium _STD	TOWER MOUNTINGinner holemiddle holeouter hole CAMBER LINKinner holeouter hole ARM MOUNTINGinner holeouter holeouter hole
FRONT TIRES FRONT INSERTS FRONT WHEELS REAR TIRES REAR WHEELS TIRE ADDITIVE none	NITRO 2 ENGINE BRAN pull star12 CARB r CARB RESTRI ONE-WAY	20%% Dnon pull start 15 ENG. TEMP° otaryslide valve CTORnone" nonefront front rear	BODY

FRONT DIFF SETTING _____

REAR DIFF SETTING _____

TRACK CONDITIONS		
SURFACEsmoothbumpy		
TRACTIONlowmediumhigh		
COMPOSITIONconcreteasphaltcarpet specify:		
NOTES		

TRACK WIDTH

WEIGHTS

____STD (gauge) ____ (in./mm)

____ none ____ (oz./gm)

RACE CO	MMENTS	
MAIN	FINISH	QUALIFYING POS
NOTES		
CAR CON	IMENTS	
NOTES	-	

GLOW PLUG TYPE _____ TUNED PIPE _____

${f ERFORMANCE}$ COMPONENTS FOR THE NITRO RC10TC3

- 1402 FACTORY BLUE 1.375 Turnbuckles
- 1414 FACTORY BLUE 1.125 Turnbuckles
- 1415 FACTORY BLUF Rear Toe Turnbuckles
- 1450 FACTORY TEAM Ride Height Gauge, set ride height easily
- 1594 FACTORY TEAM Body Hole Reamer
- 1596 FACTORY TEAM Locking Adhesive, locking screws to metal
- 1597 FACTORY TEAM Tire Adhesive, glues tires to plastic wheels
- 1598 FACTORY TEAM Shock Cap, Blue anodized aluminum
- 1700 NTC3 FT Light Weight Two-Speed One-Way Hub
- 1701 NTC3 FT Light Weight Two-speed Clutch Housing
- 1702 NTC3 FT Light Weight Two-Speed Clutch Bell
- 1704 NTC3 Solid F/R Axle
- 1706 NTC3 FT Blue Alum. Center Bulkhead
- 1707 NTC3 Front One-Way assembly
- 1708 NTC3 FT Blue Alum. Pull Start Motor Mounts
- 1709 NTC3 FT Brake Cam Bearing Kit
- 1710 NTC3 FT Blue Alum. Non Pull Start Motor Mounts
- 1711 NTC3 FT Teflon Sealed Bearing Set
- 1712 NTC3 FT Blue Alum Main Drive Shaft
- 1713 FACTORY BLUE NTC3 Turnbuckle Kit
- 1714 NTC3 FT Swing Rack Bearing Kit
- 1715 NTC3 FT Front Blade Roll Bar Kit
- 1717 NTC3 FT Blue Alum. Blade Roll Bar Mounts
- 1719 FACTORY TEAM Camber + Track Width Tool
- 1721 Clutch Nut Wrench 3/8
- 1722 FACTORY TEAM Graphite Radio Tray
- 2234 NTC3 Carbon Front Arm Set
- 2241 NTC3 Carbon R/L Steering / Hub carriers
- 2244 NTC3 Carbon Rear Arm Set
- 2248 NTC3 Carbon F/R Shock Tower
- 2255 NTC3 Carbon Chassis Braces
- 2259 NTC3 Carbon Radio Tray
- 2261 NTC3 Carbon Handle
- 2324 NTC3 Non Pull 3 Shoe Flywheel
- 2325 NTC3 Pull Start 3 Shoe Flywheel
- 3888 FACTORY BLUE TC3 / NTC3 Aluminum CVD Bones
- 3939 TC3 / NTC3 Front One-way / Solid axle Differential Ring Gear with /Mounting Screws
- 3941 TC3 / NTC3 Green Spring, 12.0 lbs.
- 3943 TC3 / NTC3 Blue Spring, 17.0 lbs.
- 3945 TC3 / NTC3 Red Spring, 22.0 lbs.
- 3946 TC3 / NTC3 Copper Spring, 25.0 lbs.
- 3949 TC3 / NTC3 Wheel Hex Adapters, Graphite
- 3952 TC3 / NTC3 Purple Spring, 30.0 lbs.
- 3953 TC3 / NTC3 Yellow Spring, 35.0 lbs.
- 3954 TC3 / NTC3 White Spring, 40.0 lbs.
- 3960 TC3 / NTC3 Rear Anti-roll Bar Kit
- 3962 FACTORY BLUE-Anodized TC3 / NTC3 Threaded Shock Kit (4)
- 3963 FACTORY BLUE-Anodized Threaded Shock Body includes Collar and O-rings .35"
- 3964 TC3 / NTC3 UNOBTANIUM Shock Shafts
- 3965 TC3 / NTC3 Axle Bearing Spacers, Blue.
- 3968 FACTORY BLUE Counterfeit Transponder
- 3972 TC3 / NTC3 Blue Aluminum Hex Drives
- 3988 Complete TC3 / NTC3 Tuning Spring Kit (9 pair)
- 6439 FACTORY TEAM Shock Cap, Blue anodized aluminum
- FACTORY BLUE 4-40 Aluminum Locknuts 6937
- 6943 FACTORY BLUE 8-32 Aluminum Locknuts
- 7710 Pre Filter Treatment





