



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.



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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)

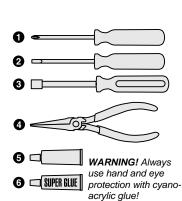


Track width/ride height tool (#1719) O

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).
- 7 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.

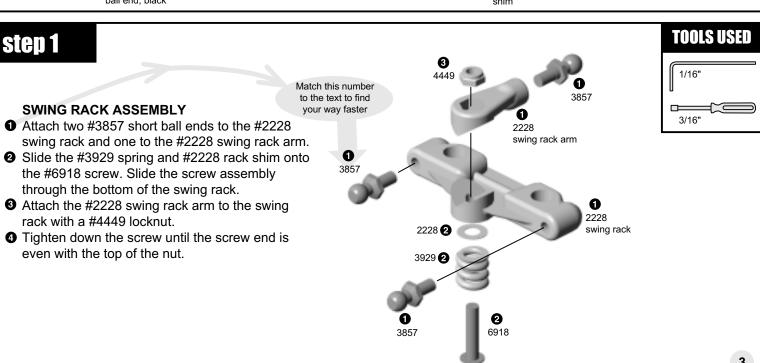
MANUAL FORMAT

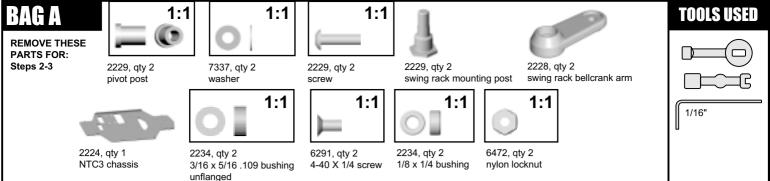
The following explains the format of these instructions.

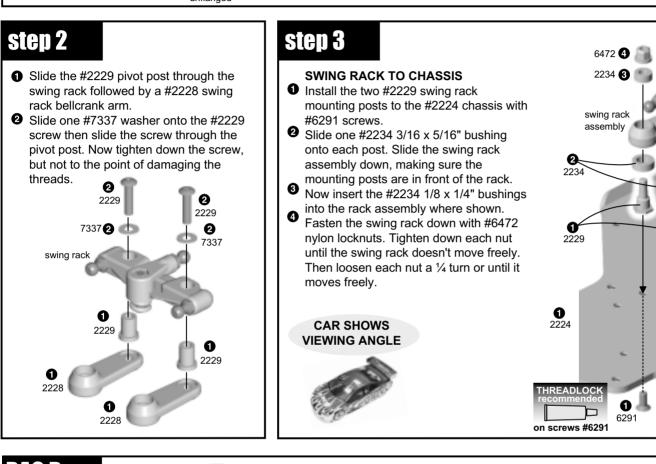
The beginning of each section indicates:

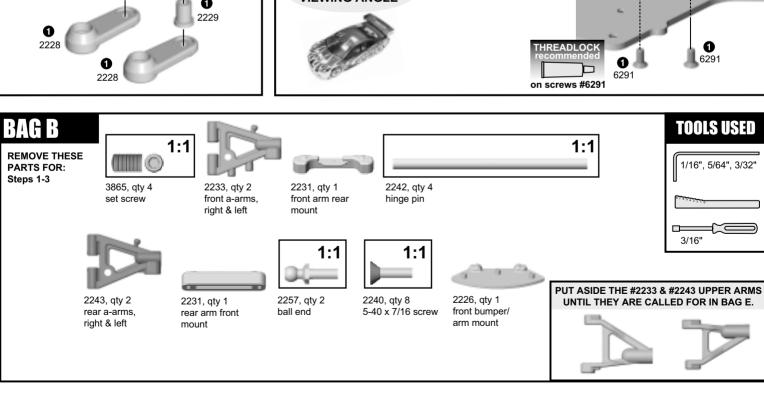
- 1 Which bag to open ("BAG A") and which steps you'll be using those parts for ("FOR STEPS 1-3").
- **2** Which parts you will use for those steps. Remove only the parts shown. "1:1" indicates an actual size drawing; place your part on top of the drawing and compare it so it does not get confused with 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.





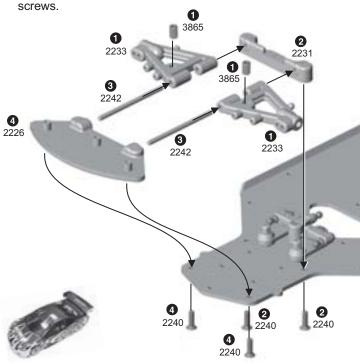






FRONT ARM ASSEMBLY

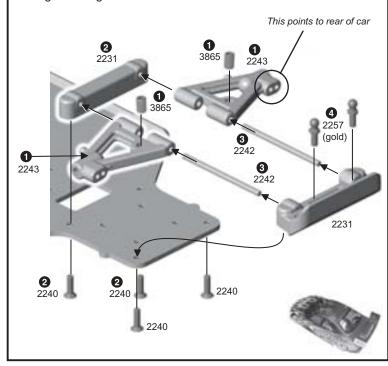
- Install a #3865 set screw into each of the #2233 front arms, making sure there is a right and a left side. (We will do the final screw adjustment in step 3.)
- Attach the #2231 front arm, rear mount to the chassis with two #2240 screws.
- Slide the #2242 hinge pins through the #2233 arms. Slide the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



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.)
- 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.
- 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.

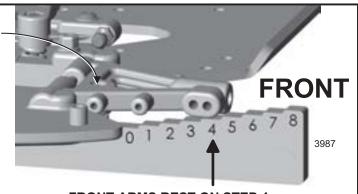


step 3

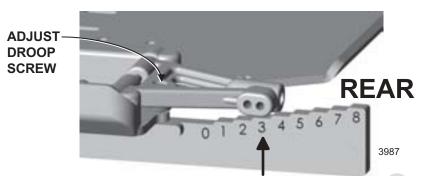
SETTING DROOP

- 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

5





6591, qty 1 Stealth lube

1:1 6909. atv 4

3/16 x 5/16 bearing unflanged



friction disc

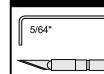
6581, qty 24 diff balls

1:1

6582. atv 2

2328. atv 2 diff spring long outdrive

outdrive shim



TOOLS USED











6588, qty 1 black grease

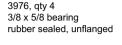
1: 6574. atv 12

thrust balls

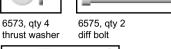
2328. atv 2 short outdrive

2293, qty 4

T-nut



2331, qty 4 drive ring

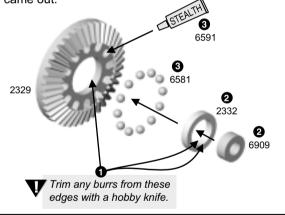




step 1

DIFFERENTIAL RING GEAR

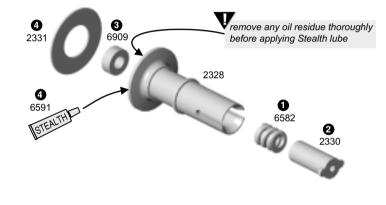
- Trim any burrs from the edges shown with a hobby
- 2 Slide a #6909 bearing into the #2332 friction disc. Slide the bearing and disc into the center of the #2329 ring
- 3 Add a generous amount of #6591 Stealth lube to the #2329 ring gear holes and friction disc. Push in the twelve #6581 diff balls.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



step 2

LONG OUTDRIVE

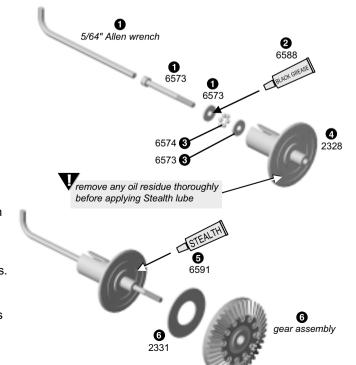
- Remove any oil residue thoroughly where shown. With a pair of pliers, compress the #6582 spring a few times. Push the #6582 diff spring into the #2328 long outdrive.
- Slide the #2330 T-nut into the long outdrive.
- 3 Insert one #6909 bearing into the face of the long outdrive.
- 4 Add a light coat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



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 Stealth 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

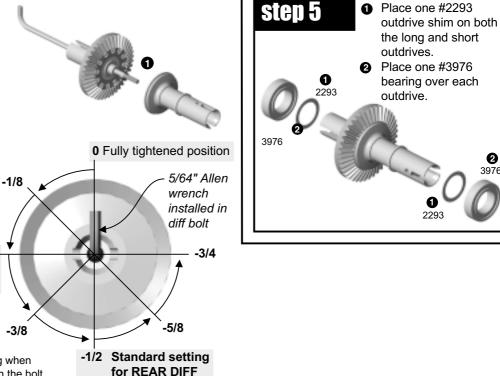
4 As you tighten the diff bolt, you will notice the T-nut ears moving closer to the bottom of the outdrive slot. This

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.

Standard setting

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.



Amount the diff bolt is turned out from tight position (counter clockwise) -1/8 -1/4 -3/8 -1/2 -5/8 -3/4 Result Diff Tighter ◀------ Diff Looser FRONT DIFF **REAR DIFF**

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



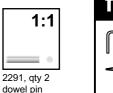
3903, qty 1 drive pinion



2270, qty 1 drive cup



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



TOOLS USED

2293

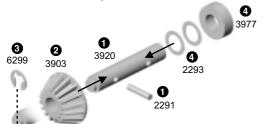


step 6

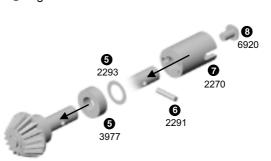
Trim any burrs from this edge of the drive pinion with a hobby knife.

FRONT INPUT SHAFT ASSEMBLY

- Install and center the #2291 dowel pin into the #3920 front O 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.



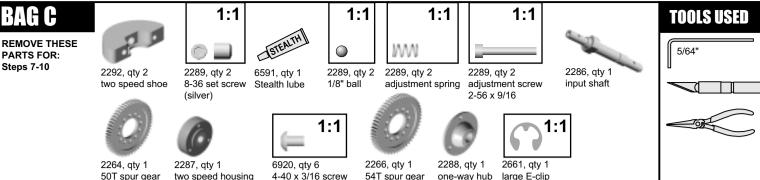
- **5** Slide the second #3977 bearing onto the input shaft, followed by the third #2293 input shaft shim.
- 6 Install and center the #2291 dowel pin into the input shaft.
- Slide a #2270 drive cup onto the end of the input shaft.
- 3 Tighten it down with one #6920 screw.

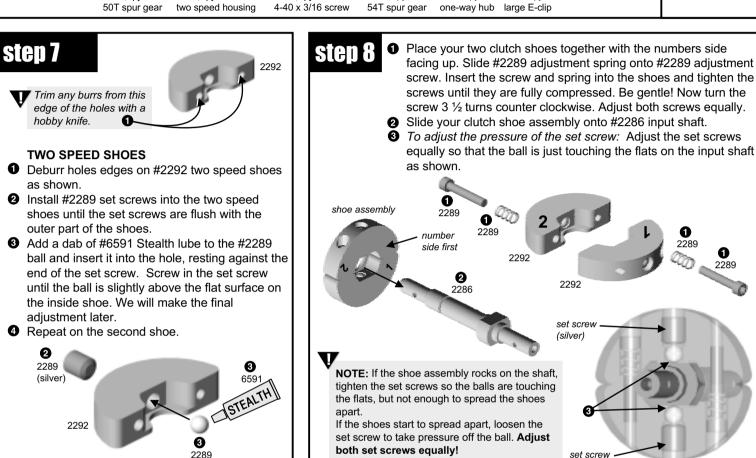




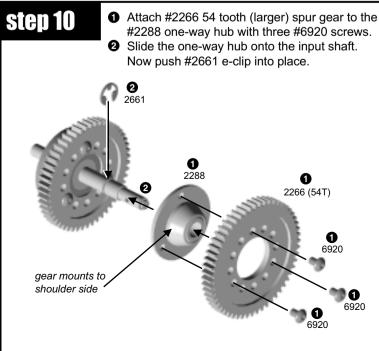
PLEASE COMPARE YOUR ASSEMBLY **CAREFULLY**

7











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





brake disc



1:1 6299, qty 1 small E-clip









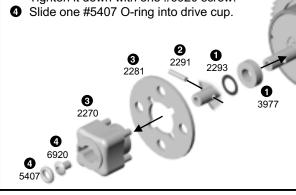


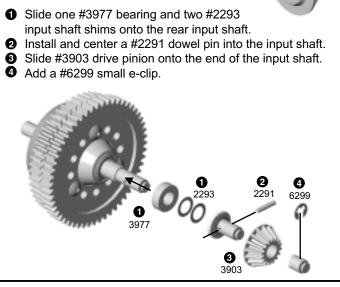
Trim any burrs from this edge of the drive pinion with a hobby knife.

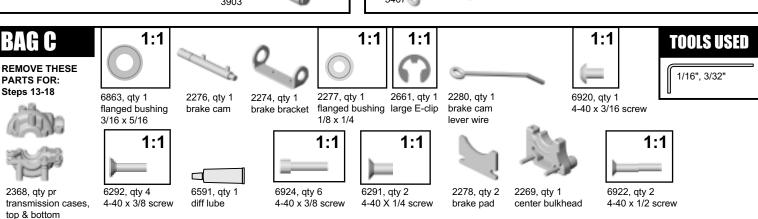
2281, qty 1



- Slide on one #3977 bearing onto the opposite end of the input shaft followed by the third #2293 input shaft shim.
- Install and center a #2291 dowel pin into the input shaft.
- 3 Clean the #2281 brake disc with motor cleaner. Place #2281 brake disc onto #2270 drive cup. Slide the drive cup with brake disc onto the input shaft. Tighten it down with one #6920 screw.

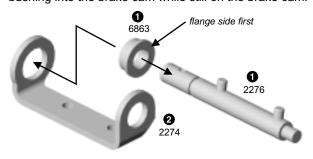






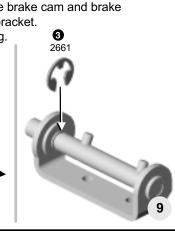


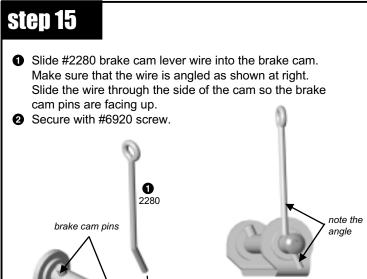
- 1 Slide #6863 bushing onto the end of the #2276 brake
- Angle the brake cam with bushing and slide it through the large hole of the #2274 brake bracket. Press #6863 bushing into the brake cam while still on the brake cam.

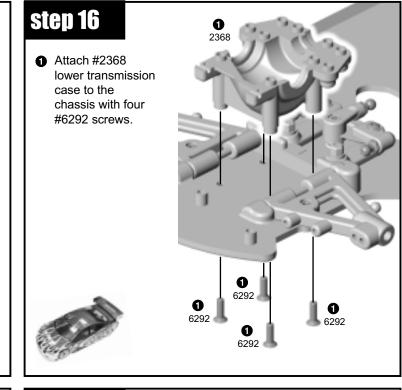


step 14

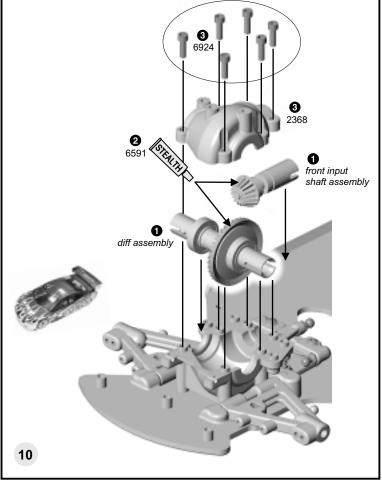
- Place #2277 bushing in between the brake cam and brake bracket and press it into the brake bracket.
- Slide the brake cam into the bushing. Add #2661 large E-clip.







- Place the front diff assembly and front input shaft assembly into the lower transmission case.
- 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.
- 4 Attach center bulkhead to the chassis with two #6922 screws.

