

# TC4

## Instruction Manual for the Team Associated TC4

### TC4 - Key Features

Vertical ball stud adjustment

Heavy duty MIP CVD's

Optimized third generation steering rack/bellcrank system

Heavy duty input cups and driveshaft

Adjustable aluminum motor mount with integrated heatsink

Adjustable anti-squat/anti-dive shim system

### TC4 Chassis Specs

Length: 373 mm

Width: 190 mm

Wheelbase: 259 mm

Internal Gear Ratio: 2.50:1

Weight: 1375 g (as shown)

Drivetrain: Shaft drive

**1:10 Scale 4WD Electric  
Touring Car Kit**

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## Thank you for selecting this Team Associated model.

Team Associated's revolutionary TC3 set the benchmark for touring car performance and quickly became the choice of winning racers all over the world. The TC3's race-proven shaft-drive design captured many national & international championships in the past few years, and has spawned numerous imitations. Now Team Associated is proud to introduce the next generation RC10TC4 Touring Car...the refinement of the proven TC3 racing platform, optimized with more precise tuning features, better balance, and greater durability.

Team Associated wants you to enjoy the process of building, driving and maintaining your new model. If you come across any problems or need help with the assembly of your model, give us a call and we will do our very best to help you.

### Customer Support

Tel: 714.850.9342

Fax: 714.850.1744

Hours: 8:00am - 4:00pm, pst

<http://www.rc10.com>

<http://www.TeamAssociated.com>



## The Manual

Examine each step carefully before building. Special notes for each step will be marked with a ▼.

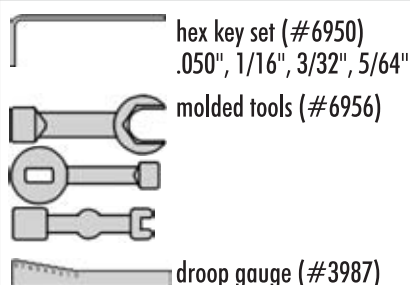
## The Bags

Open the bags in order, according to each step. Some bags contain a large amount of small parts. We recommend using a small container to keep the parts together.

## Supplement Sheets

We are constantly developing new parts to improve our kits. These changes, if any, will be noted on supplementary sheets located in the appropriate parts bag. Check each bag for these sheets before you start to build.

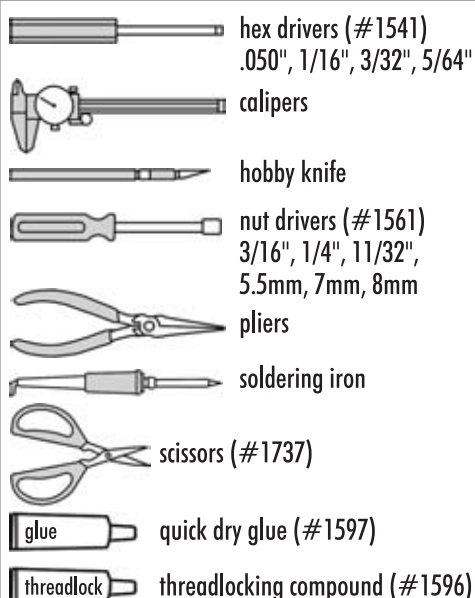
### kit supplied tools



### customer support

Hours: 8:00am - 4pm, pst  
Tel: (714) 850-9342 Fax: (714) 950-1744  
<http://www.TeamAssociated.com>  
<http://www.rc10.com>

### recommended tools for assembly



### items needed to complete your vehicle

1. R/C two channel surface frequency radio system.
2. Six cell battery pack.
3. Battery charger (we recommend a peak detection charger).
4. Electronic Speed Control (ESC).
5. R/C electric motor.
6. Pinion gear, size to be determined by type and wind of motor you will be using.
7. 190mm Lexan body.

## Associated Electrics, Inc.

3585 Cadillac Ave. Costa Mesa, CA 92626 USA

## Bag A - Shocks

## Step 1



3963, qty 1  
threaded shock  
body, blue



6469, qty 1  
large o-ring



assemble  
4 shocks

## Step 2



6299, qty 2  
small e-clip



6465, qty 1  
shock piston #2



8844, qty 1  
shock shaft, .35"



remove



## Step 3



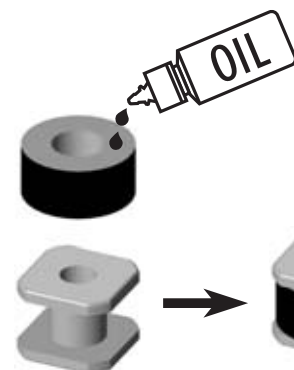
5423, qty 1  
40 wt silicone oil



8456, qty 1  
VC bobbin



8456, qty 1  
VC foam



## Step 4



5407, qty 2  
red o-ring



## Step 5



## Step 6



31030, qty 1  
shock shaft ball end



leave gap

## Step 7

fill to top with oil



slowly move shaft  
up & down to remove  
air bubbles



fill to top with oil



push the shaft in

NOTE: the oil  
should crown



4



6428, qty 1  
shock cap



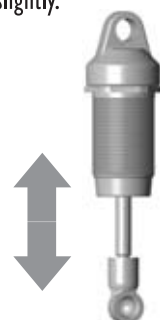
fill to bottom  
of threads

retain oil as you screw  
the cap on



5

move shaft up & down  
a few times, then push it  
all the way in. the shaft  
should push  
itself out  
slightly.



6

if you cannot push the  
shaft in, bleed out a  
small amount of oil.  
repeat step 6.



7

if the shaft does not  
push out, repeat  
steps 5 & 6  
again.



8



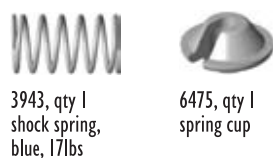
## Step 8



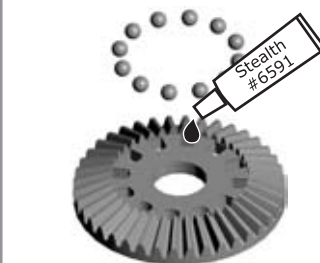
## Step 9



## Step 10

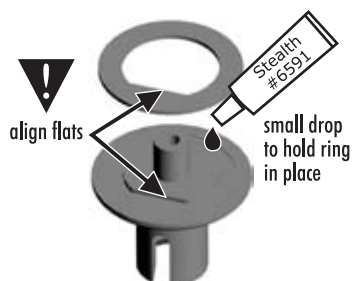
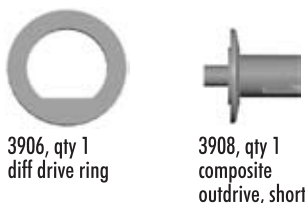


## Step 1

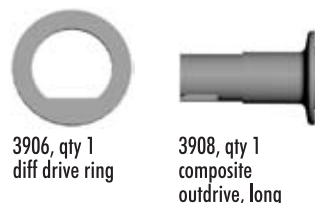


## Bag B - Differentials

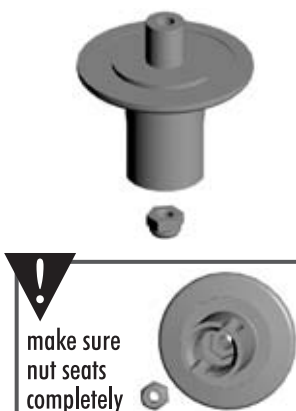
## Step 2



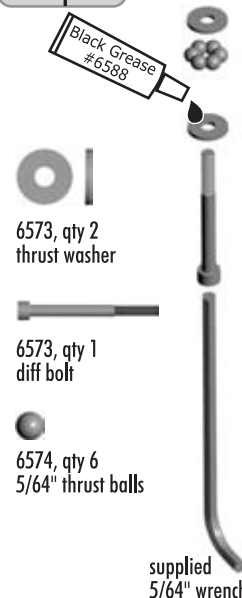
## Step 3



## Step 4



## Step 5



## Step 6



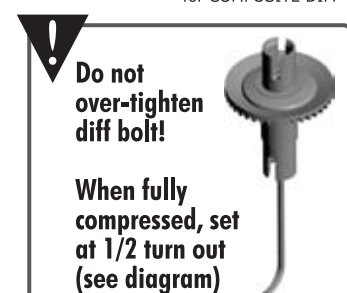
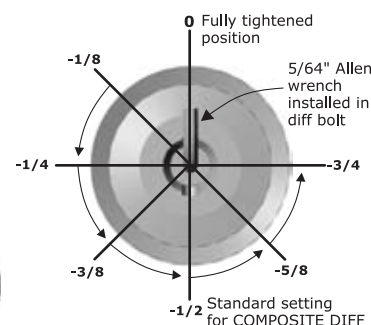
## Step 7



## Step 8



## Step 9



## Step 10

3911, qty 2  
outride shim3976, qty 2  
3/8 x 5/8" rubber  
sealed bearing

## Bag C - Steering

## Step 1

3981, qty 1  
ball stud, .200"  
short black6277, qty 2  
ball stud, .300"  
long silver6272, qty 3  
dust cover, foam31003, qty 1  
steering rack arm31003, qty 1  
steering rack

## Step 2

4449, qty 1  
4-40 locknut6587, qty 1  
servo saver spring6918, qty 1  
4-40 x 1/2" bhcs7337, qty 1  
washer

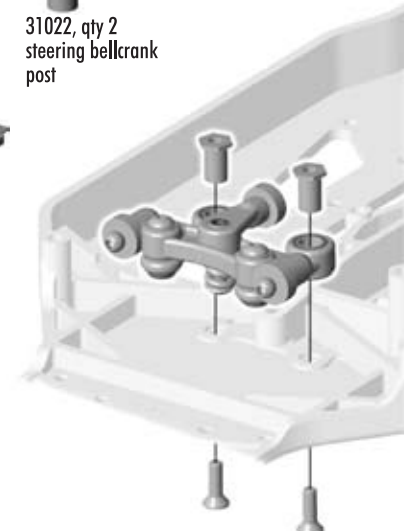
## Step 3

2221, qty 2  
4-40 x 7/16" bhcs2229, qty 2  
swing rack pivot post7337, qty 2  
washer31003, qty 2  
steering bellcrank

## Step 4

3916, qty 4  
3/16 x 5/16" bearing

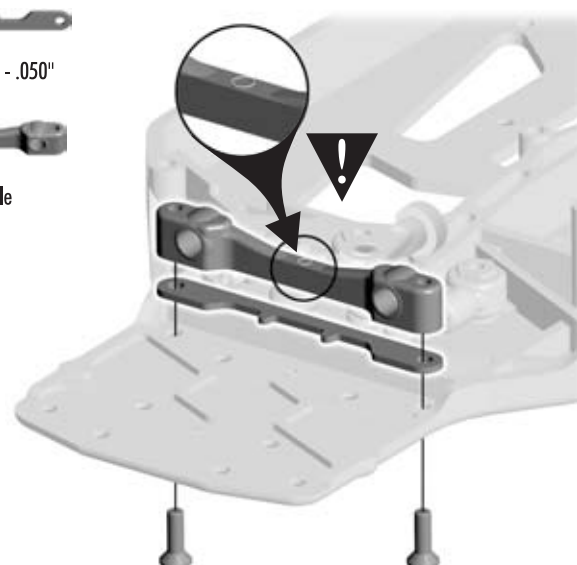
## Step 5

6292, qty 2  
4-40 x 3/8" fhcs31022, qty 2  
steering bellcrank  
post31000, qty 1  
tc4 chassis

## Step 1

3983, qty 1  
ball stud, .300"  
black short neck3865, qty 1  
10-32 x 5/16"  
droop screw31006, qty 1  
front suspension armassemble 2  
arms, left and right

## Step 2

31010, qty 1  
arm mount shim - .050"31025, qty 1  
arm mount - circle6292, qty 2  
4-40 x 3/8" fhcs

## Bag D - Suspension

## Step 3



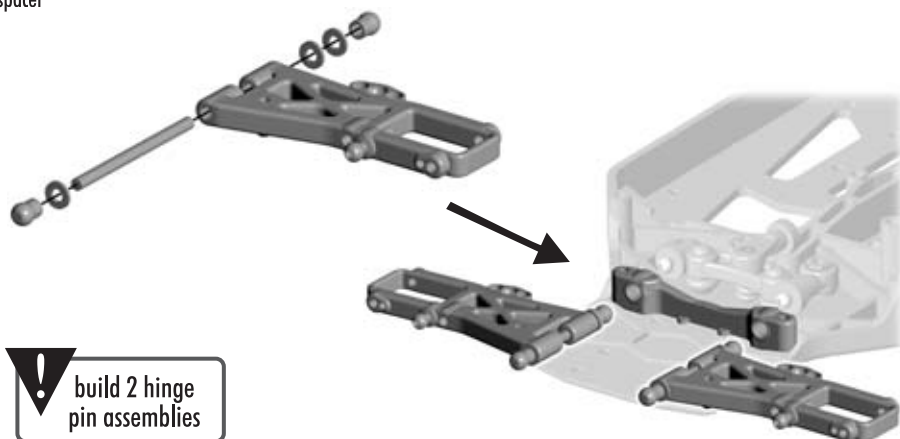
31010, qty 3  
wheelbase adjustment  
spacer



31010, qty 2  
hinge pin pivot ball



31024, qty 1  
hinge pin



**!** build 2 hinge  
pin assemblies

## Step 4



6292, qty 2  
4-40 x 3/8" fhcs



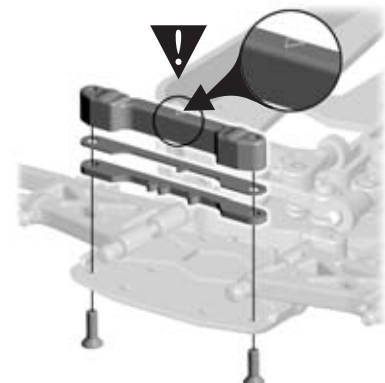
31010, qty 1  
arm mount shim - .075"



31010, qty 1  
arm mount shim - .025"



31025, qty 1  
arm mount - triangle



## Setting Front Droop

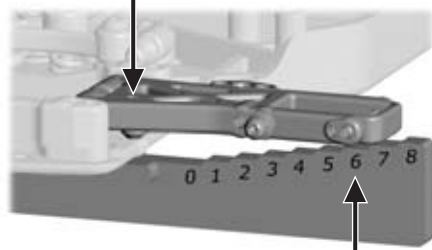
Adjust Droop



Screw out,  
smaller number,  
more Droop

Screw in,  
larger number,  
less Droop

Droop Screw



Front arms rest on step 6.

## Step 5



3983, qty 1  
ball stud, .300"  
black short neck



3865, qty 1  
10-32 x 5/16"  
droop screw



31008, qty 1  
rear suspension arm

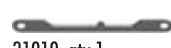


**!** assemble 2  
arms, left and right

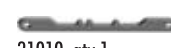
## Step 6



6292, qty 2  
4-40 x 3/8" fhcs



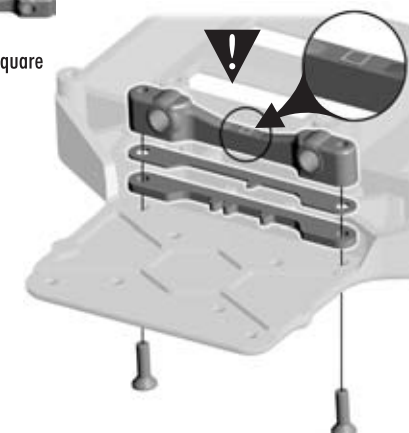
31010, qty 1  
arm mount shim - .025"



31010, qty 1  
arm mount shim - .075"



31025, qty 1  
arm mount - square



## Step 7



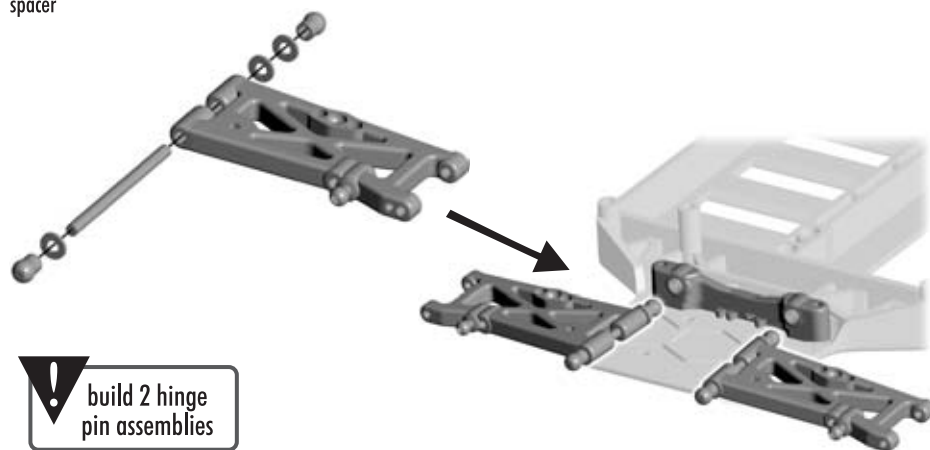
31010, qty 3  
wheelbase adjustment  
spacer



31010, qty 2  
hinge pin pivot ball



31024, qty 1  
hinge pin



**!** build 2 hinge  
pin assemblies

## Step 8



6292, qty 2  
4-40 x 3/8" fhcs



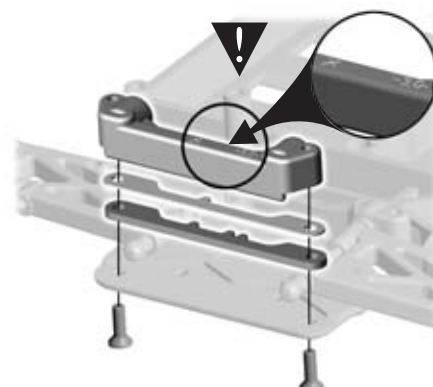
31010, qty 1  
arm mount shim - .075"



31010, qty 1  
arm mount shim - .025"



31025, qty 1  
arm mount - X



## Setting Rear Droop

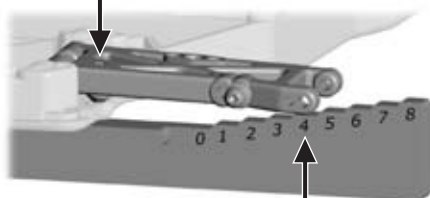
Adjust Droop



Screw out,  
smaller number,  
more Droop

Screw in,  
larger number,  
less Droop

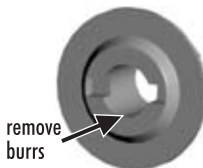
Droop Screw



Rear arms rest on step 4.

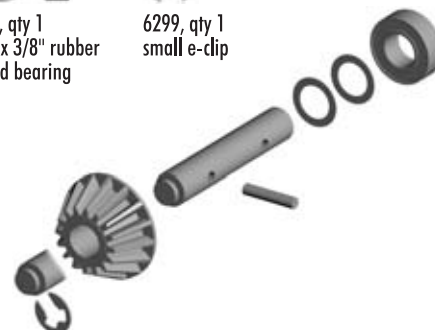
## Bag E - Transmission

## Step 1

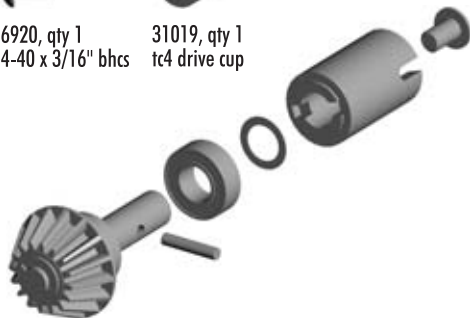
3914, qty 1  
drive pinionremove  
burrs

deburr 2 gears

## Step 2

3911, qty 2  
input shaft shim3915, qty 1  
front input shaft3919, qty 1  
dowel pin3977, qty 1  
3/16 x 3/8" rubber  
sealed bearing6299, qty 1  
small e-clip

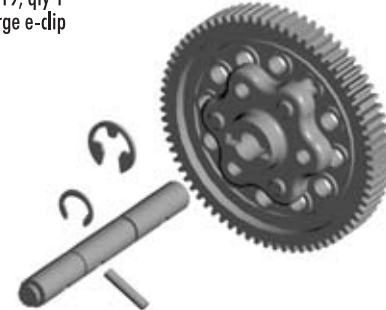
## Step 3

3911, qty 1  
input shaft  
shim3919, qty 1  
dowel pin3977, qty 1  
3/16 x 3/8" rubber  
sealed bearing6920, qty 1  
4-40 x 3/16" bhc31019, qty 1  
tc4 drive cup

## Step 4

3922, qty 1  
72t spur gear6288, qty 3  
4-40 x 1/4" bhc31019, qty 1  
spur gear hub

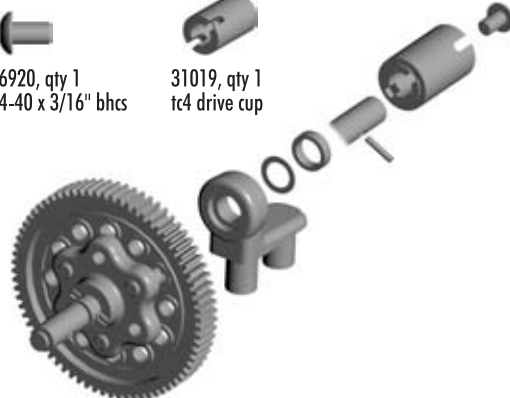
## Step 5

3915, qty 1  
rear input shaft3919, qty 1  
c-clip3919, qty 1  
dowel pin3919, qty 1  
large e-clip

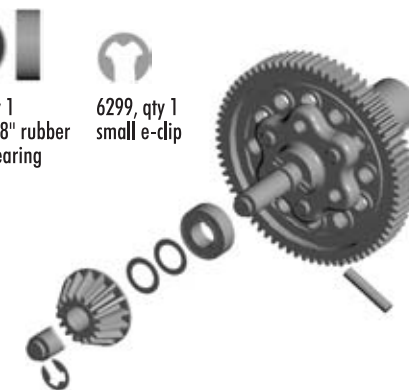
## Step 6

3977, qty 1  
3/16 x 3/8" rubber  
sealed bearing31019, qty 1  
input bearing  
housing

## Step 7

3911, qty 1  
input shaft  
shim3911, qty 1  
input shaft  
shim, aluminum3919, qty 1  
dowel pin6920, qty 1  
4-40 x 3/16" bhc31019, qty 1  
tc4 drive cup

## Step 8

3911, qty 2  
input shaft  
shim3914, qty 1  
drive pinion3919, qty 1  
dowel pin3977, qty 1  
3/16 x 3/8" rubber  
sealed bearing6299, qty 1  
small e-clip



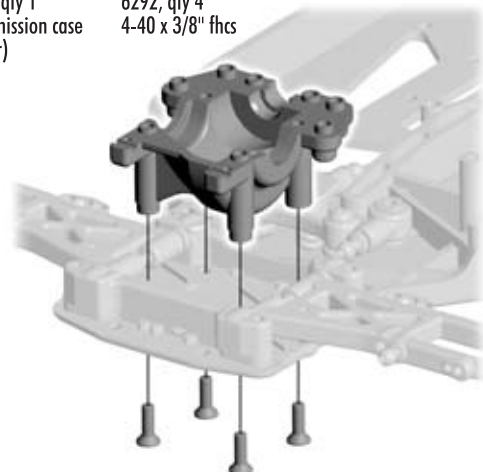
## Step 9



2368, qty 1  
transmission case  
(lower)



6292, qty 4  
4-40 x 3/8" fhcs



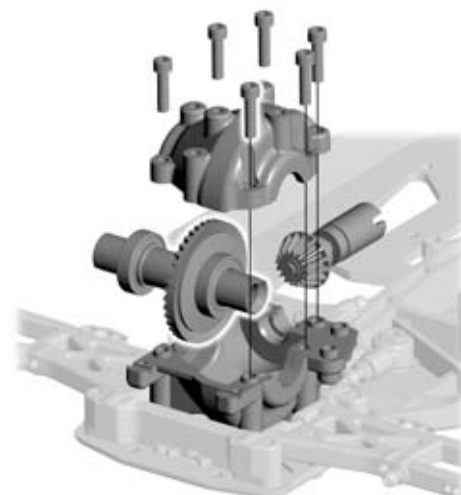
## Step 10



2368, qty 1  
transmission case  
(upper)



6924, qty 6  
4-40 x 3/8" shcs



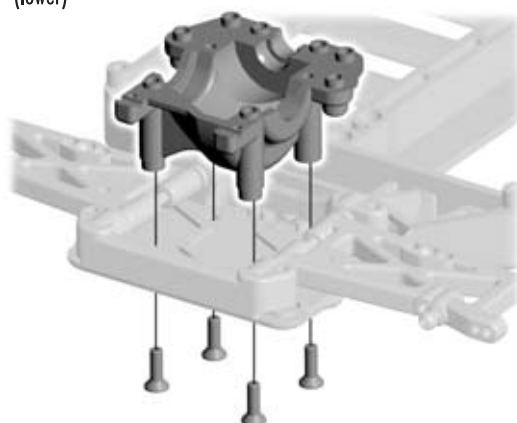
## Step 11



2368, qty 1  
transmission case  
(lower)



6292, qty 4  
4-40 x 3/8" fhcs



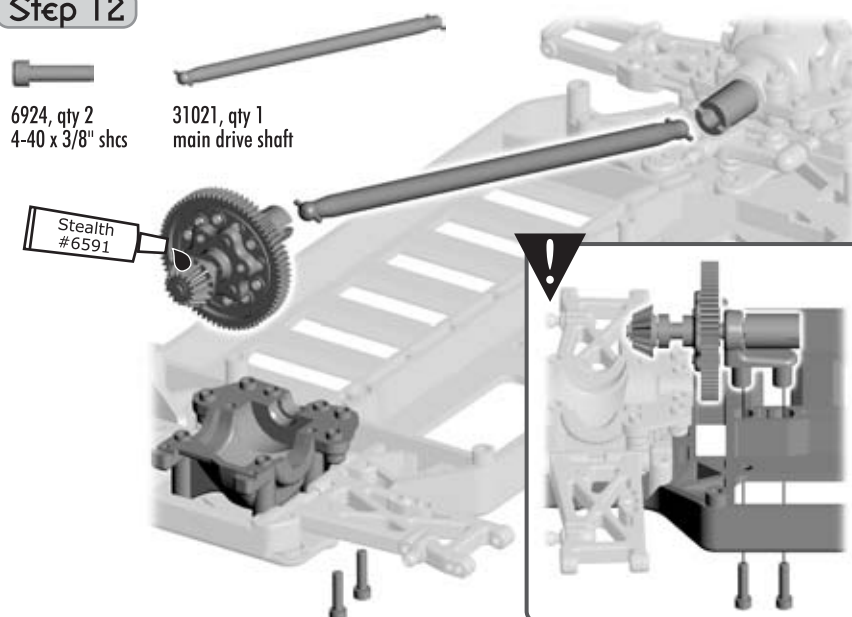
## Step 12



6924, qty 2  
4-40 x 3/8" shcs



31021, qty 1  
main drive shaft



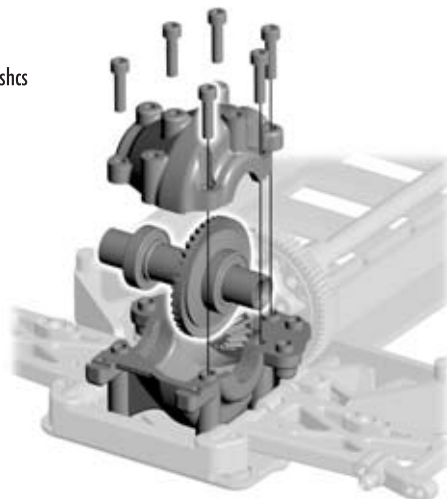
## Step 13



2368, qty 1  
transmission case  
(upper)



6924, qty 6  
4-40 x 3/8" shcs



## Step 1



7260, qty 2  
4-40 plain nut



7413, qty 2  
4-40 x 3/4" bhcs



31011, qty 1  
shock tower, front



## Bag F - Shock Towers



## Step 2



7260, qty 2  
4-40 plain nut



7413, qty 2  
4-40 x 3/4" bhcs



31013, qty 1  
shock tower, rear



## Step 3



2230, qty 2  
rear body posts



6918, qty 2  
4-40 x 1/2" bhcs



## Step 4



6924, qty 3  
4-40 x 3/8" shcs



## Step 5



6924, qty 3  
4-40 x 3/8" shcs



## Step 6



6472, qty 2  
shock mounting nuts



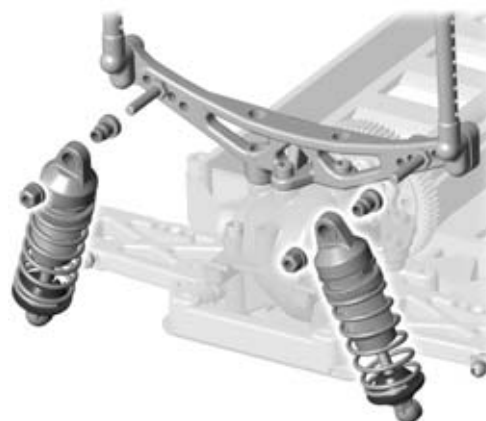
6473, qty 2  
shock bushing



6472, qty 2  
shock mounting nuts



6473, qty 2  
shock bushing



## Step 1



3886, qty 1  
CVD axle



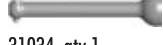
7381, qty 1  
CVD set screw



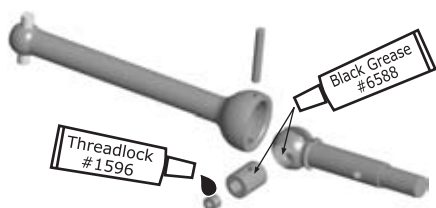
7381, qty 1  
CVD coupling



7381, qty 1  
CVD cross pin



31034, qty 1  
CVD bone



Threadlock  
#1596

Black Grease  
#6588

! assemble  
4 CVD's

## Step 2



3965, qty 1  
bearing spacer



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



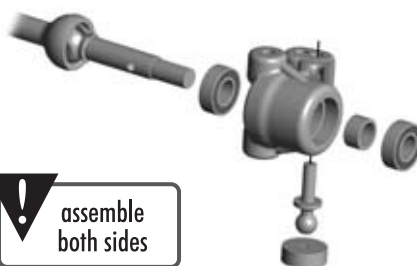
6272, qty 1  
dust cover, foam



6277, qty 1  
ball stud, .300"  
long silver



31004, qty 1  
steering block



! assemble  
both sides

## Step 3



3874, qty 2  
block carrier  
bushing



31015, qty 1  
caster block,  
0 degrees



! assemble  
both sides

Baq G - CVD's

## Step 4

3875, qty 1  
4-40 x 1 1/32"  
shoulder screw

3983, qty 1  
ball stud, .300"  
long black

6272, qty 1  
dust cover, foam



compare your  
assemblies



right side



left side

## Step 5

3878, qty 2  
front outer hinge pin

9645, qty 2  
2-56 x 1/8" bhcs



## Step 6

3965, qty 1  
bearing spacer

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

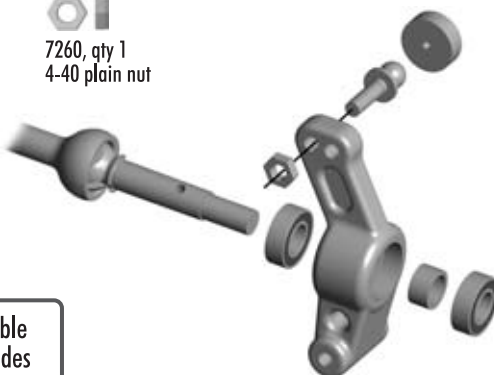
3983, qty 1  
ball stud, .300"  
long black

6272, qty 1  
dust cover, foam



31004, qty 1  
hub carrier

7260, qty 1  
4-40 plain nut

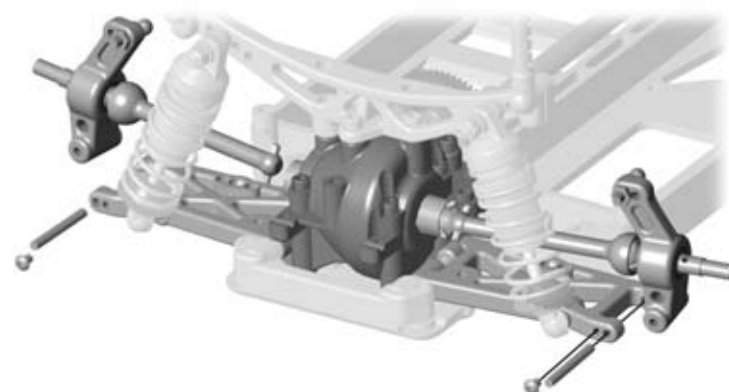


assemble  
both sides

## Step 7

3878, qty 2  
rear outer hinge pin

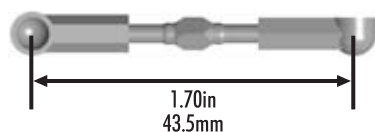
9645, qty 2  
2-56 x 1/8" bhcs



## Step 1

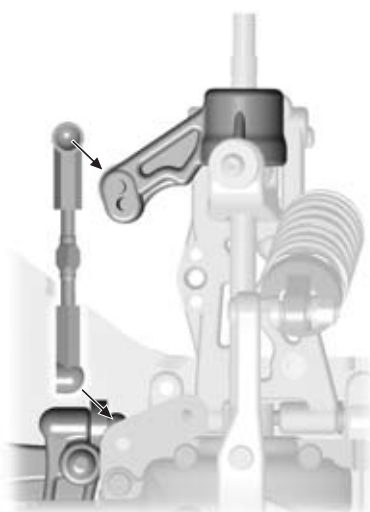
6260, qty 1  
turnbuckle, 1.00"

6274, qty 2  
ball cup



assemble 2  
steering linkages

## Step 2



## Step 3

6272, qty 2  
dust cover, foam

6277, qty 2  
ball stud, .300"  
long silver

31001, qty 2  
chassis braces,  
left front/right front

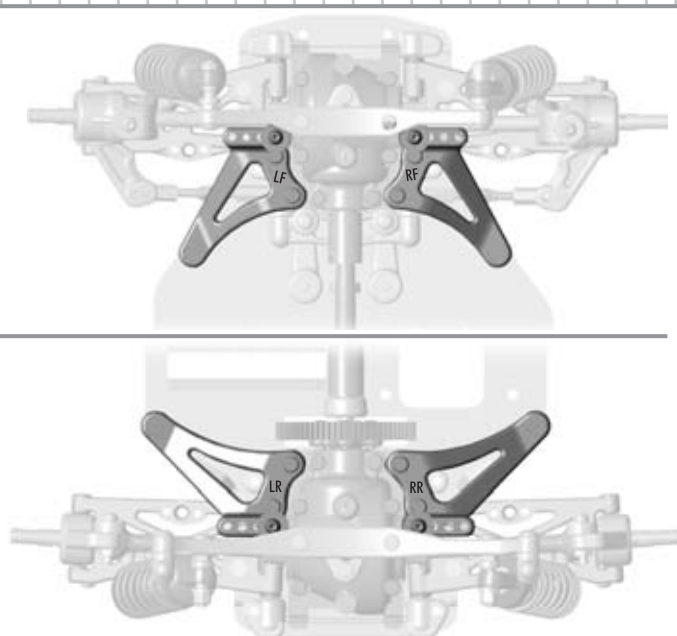


assemble RF - LF

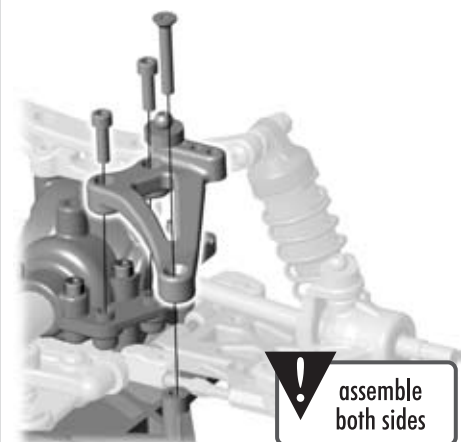
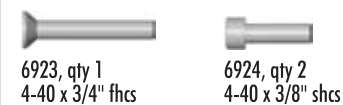
## Step 4



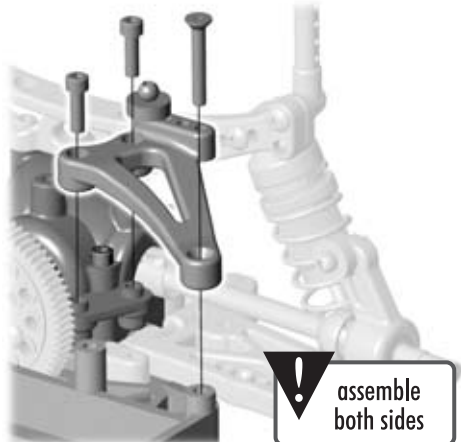
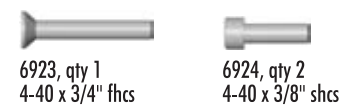
## Step 5



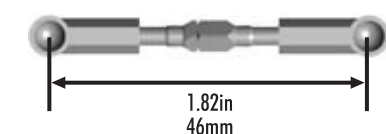
## Step 6



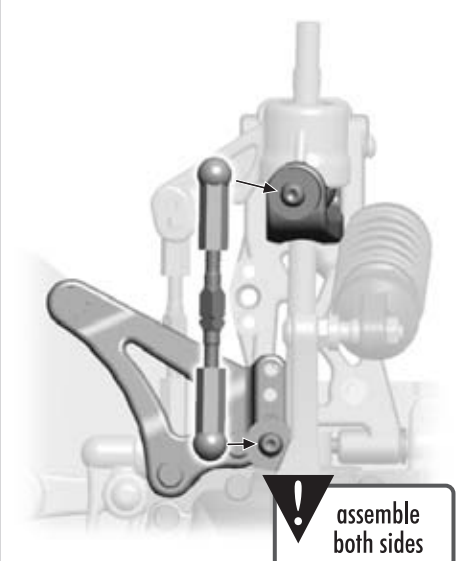
## Step 7



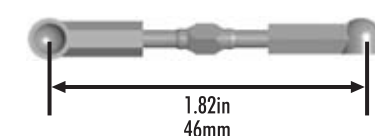
## Step 8



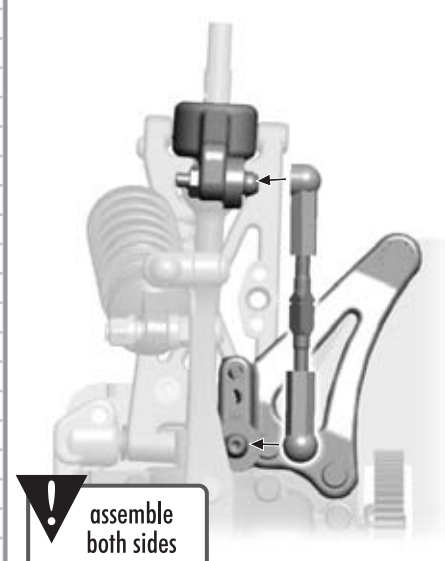
## Step 9



## Step 10



## Step 11



## Bag I - Servo Install

## Step 1



3858, qty 1  
ball stud, black  
short special



6272, qty 1  
dust cover, foam



9180, qty 4  
servo horn

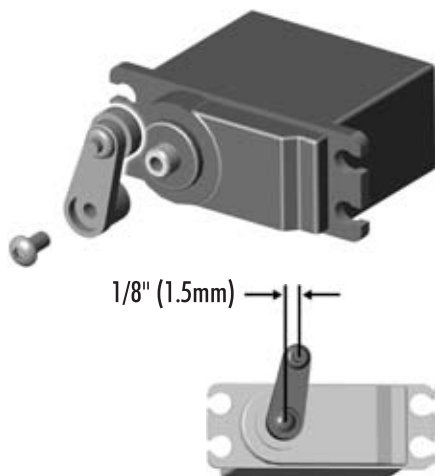


## Steering Servo Chart \*

\*Not all servo's are listed.

	#7336 Spacer	#9180 Servo Arm
<b>Airtronics</b> 94102	no spacer	A
<b>Airtronics</b> 94738, 94157, 94158, 94257, 94258, 94357, 94358, 94452, 94453, 94751, 94755	thick spacer	A
<b>Hitec</b> HS-5625MG, HS-5645MG, HS625MG, HS645MG	no spacer	H
<b>Hitec</b> HS-303, HS-300BB, HS-945MG, HS-925MG, HS-5945MG, HS-5925MG, HS-525MG, HS-525BB, HS-425BB, HS-422	thin spacer	H
<b>JR</b> Z4725, Z4750, Z2750, Z8450, Z8550, NES-4750	no spacer	J
<b>JR</b> Z250, Z550	thin spacer	J
<b>Futaba</b> S9204, S9250, S9450, S148	no spacer	F
<b>Futaba</b> S3003, S9202, S9101	thin spacer	F
<b>Futaba</b> S9404	thick spacer	F
<b>KO</b> PS-401, PS-2001, PS-2004, PS-2015, PS-2173, PS-2174, PS-2123, PS-2143, PS-2144	thin spacer	J

## Step 2



1/8" (1.5mm)



assemble using stock servo screw

## Step 3



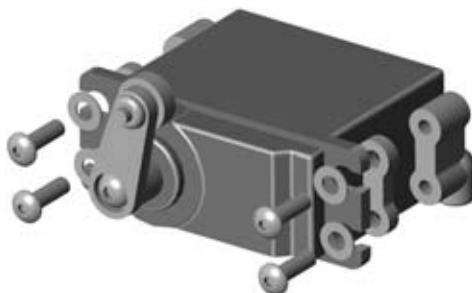
6917, qty 4  
4-40 x 3/8" bhcs



7336, qty 2  
servo mount &  
spacers



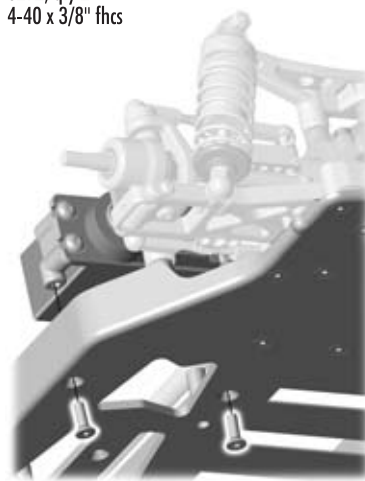
7337, qty 4  
washer



## Step 4



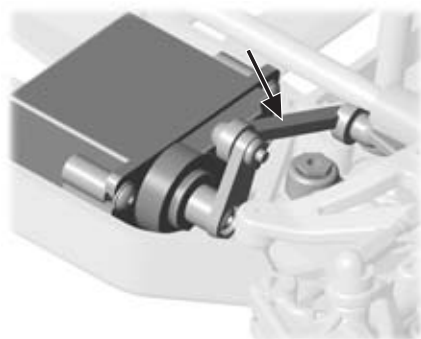
6292, qty 2  
4-40 x 3/8" fhcs



## Step 5



6265, qty 1  
tc4 steering drag link



## Step 1



3930, qty 1  
motor cam



3934, qty 2  
3mm motor screw



motor not  
included in kit

## Bag J - Power System

## Step 2



pinion & setscrew  
not included in kit



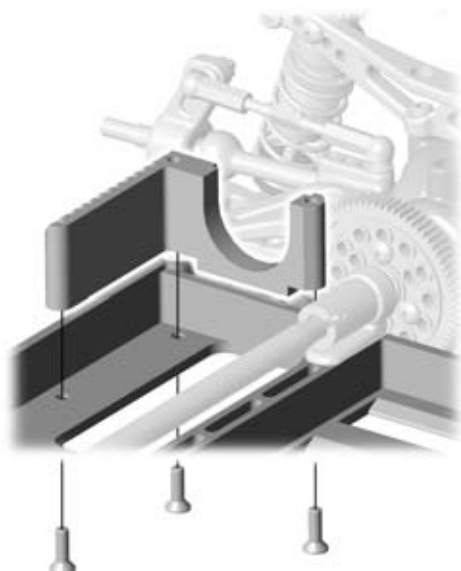
## Step 3



6292, qty 3  
4-40 x 3/8" fhcs



31020, qty 1  
motor mount



## Step 4



3929, qty 1  
motor clamp spring



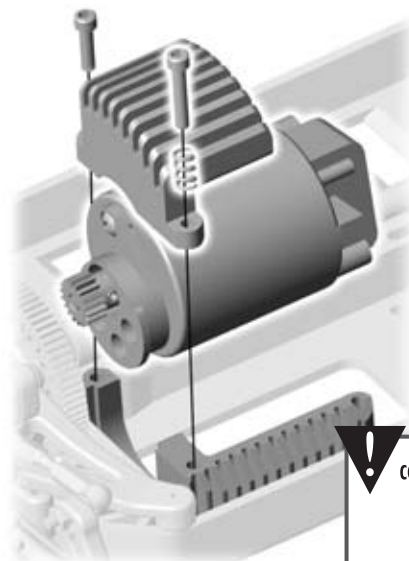
3931, qty 1  
heatsink  
motor clamp



6926, qty 1  
4-40 x 5/8" shcs



7874, qty 1  
4-40 x 7/16" shcs



compress spring  
completely,  
then loosen 1  
to 1 1/2 turns

## Step 5



6338, qty 1  
antenna tube & cap

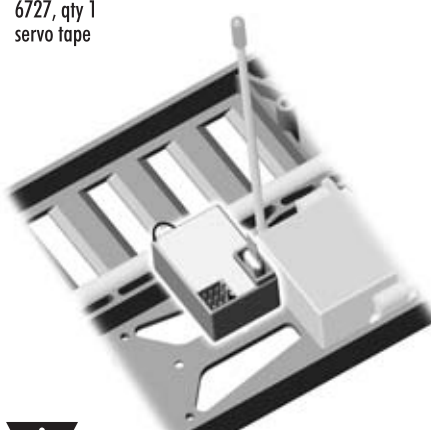


feed antenna as shown  
receiver not included in kit

## Step 6



6727, qty 1  
servo tape

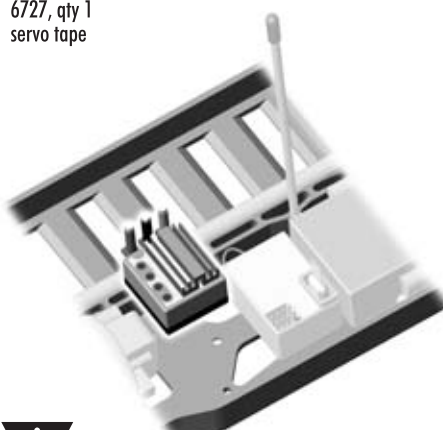


attach receiver to  
chassis with servo tape

## Step 7



6727, qty 1  
servo tape

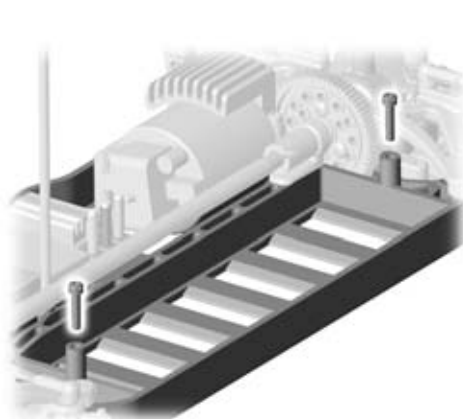


attach speed control to  
chassis with servo tape

## Step 8



6916, qty 2  
4-40 x 1/2" shcs  
with hole



## Step 9



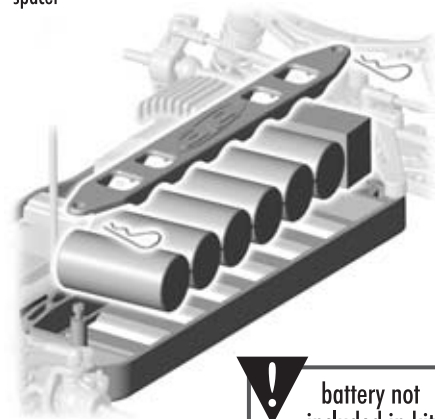
3848, qty 1  
battery foam  
spacer



3853, qty 1  
battery brace



6332, qty 2  
body clip



battery not  
included in kit

## Step 1



2230, qty 2  
body posts



6292, qty 2  
4-40 x 3/8" fhcs



2225, qty 1  
bumper top brace



Bag K - Bumper & Body

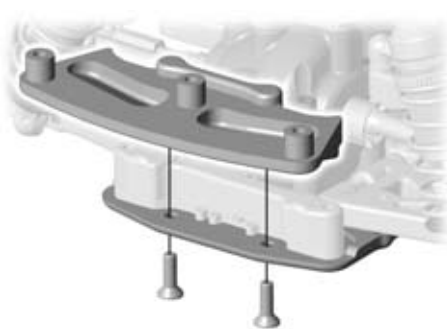
## Step 2



6292, qty 2  
4-40 x 3/8" fhcs



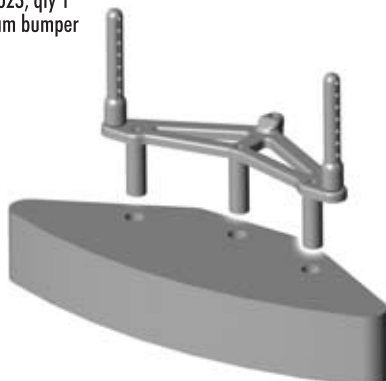
31026, qty 1  
front bumper



## Step 3



31023, qty 1  
foam bumper



! foam bumper may require trimming to fit under some bodies

## Step 4



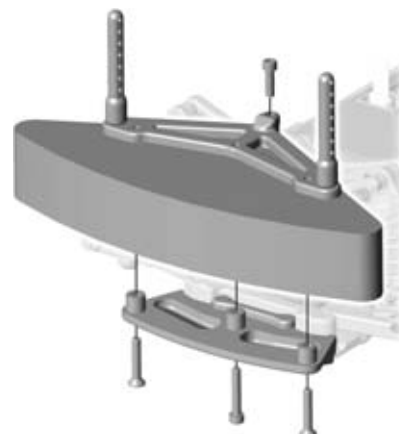
6915, qty 2  
4-40 x 5/8" fhcs



6924, qty 1  
4-40 x 3/8" shcs



6926, qty 1  
4-40 x 5/8" shcs



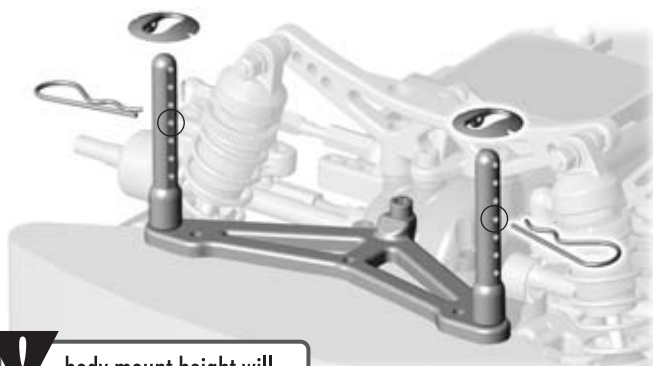
## Step 5



3897, qty 2  
pivoting body mount



6332, qty 2  
body clip



! body mount height will vary with body selection

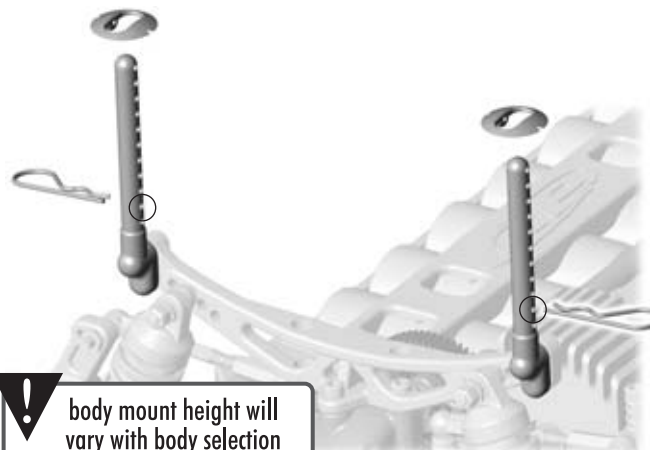
## Step 6



3897, qty 2  
pivoting body mount



6332, qty 2  
body clip



! body mount height will vary with body selection

## Step 1



2405, qty 1  
tire & insert



3991, qty 1  
dish wheel



! assemble 4 wheels

## Step 2



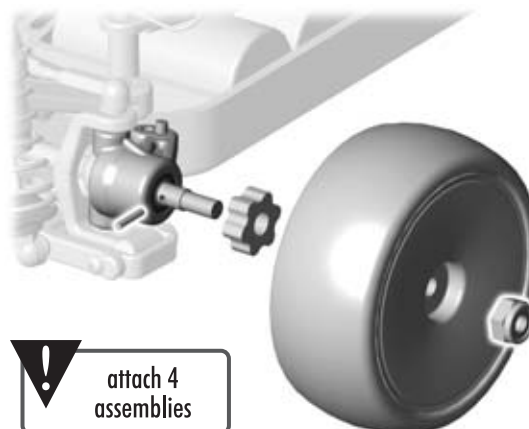
6943, qty 1  
8-32 locknut



7369, qty 1  
CVD roll pin



31032, qty 1  
wheel hex drive



! attach 4 assemblies

**Congratulations!**

This completes the assembly of the Team Associated TC4.

It is suggested that you select a body shell that best suits the situation for which your new TC4 will be used. Follow the instructions included with the body for painting and mounting.

**Ackermann**

The inside hole on the steering blocks gives more Ackermann, while the outboard hole yields less Ackermann. Increasing Ackermann will smooth out steering and is best when running a one-way or on a high traction surface such as carpet. Reduced Ackermann will typically work best with a front diff or a solid axle. This will give more mid-to-exit steering and more corner speed.

**Arm Mount Shimming**

The TC4s new arm mounting system allows for maximum adjustability for both asphalt and foam tire conditions. The shimming system allows you to run the pins flat, kick-up, anti-dive, anti-squat, and pro-squat. Each shim is numbered 1, 2, and 3 is designated by the number of tabs on the shim. To determine what you are running, for each pair of mounts ( $\Delta$  and  $\bigcirc$  for front,  $\square$  and  $\times$  for rear) subtract the number of tabs on the forward arm mount ( $\Delta$  or  $\square$ ) from the number of tabs on the rearward arm mount ( $\bigcirc$  or  $\times$ ).

Some examples:

**Front Suspension**

triangle	circle	result	Type	Roll Center
2	2	0	flat	std.
3	3	0	flat	high
0	0	0	flat	low
4	2	+2	kick-up	std.
2	0	+2	kick-up	low
2	1	+1	kick-up	low
2	4	-2	anti-dive	high
0	2	-2	anti-dive	low
1	2	-1	anti-dive	std.

**Rear Suspension**

square	x	result	Type	Roll Center
4	4	0	flat	std.
6	6	0	flat	high
2	2	0	flat	low
4	2	+2	anti-squat	std.
2	0	+2	anti-squat	low
4	3	+1	anti-squat	std.
2	4	-2	pro-squat	std.
0	2	-2	pro-squat	low
3	4	-1	pro-squat	std.

Also, you can raise or lower the mounts for maximum roll-center adjustability. Simply raise the mounts in equal increments under both mounts and you can raise the roll center. Lowering the mounts in equal increments will lower the roll center.

**Anti-Dive**

Rear mount higher than front mount, negative result. Adding anti-dive reduces weight transfer to the front on deceleration entering corners. It also reduces caster at the wheel.

**Kick-Up**

Front mount higher than rear mount, positive result. Increasing kick-up will make the front suspension stiffer, as well as increasing caster at the wheel.

**Anti-Squat**

Front mount higher than rear mount, positive result. Increasing anti-squat will make the rear suspension stiffer. It tends to give the car more entry steering and reduce rearward weight transfer on power.

**Pro-Squat**

Rear mount higher than front mount, negative result. Running Pro-Squat will increase rearward weight transfer on power.

**Caster**

Caster describes the angle of the kingpin from vertical while looking from the side of the car. Positive caster means the top of the kingpin leans rearward. Adding negative caster means the kingpin is leaning towards the front of the car. Since caster is measured at the wheel, it is affected by running any inclination in your inboard arm mount. Kick-up adds (+) caster, and anti-dive adds (-) caster.

When figuring out your caster at the wheel, add the number of degrees of kick-up of anti-dive and add it to the degree caster blocks you have on the car.

Typically for most racing surfaces, 4 degrees caster is the normal starting point for the Team. From there, increase caster to reduce mid to exit steering and make the front end less responsive. Conversely, decreased caster gives a more responsive feel and more exit steering.

**Ballstud Height & Camber Location**

You can raise the front or rear roll center by lowering the arm mounts, or raising the inner ballstud. A lower roll center will put more weight on the tires during cornering, and increases traction to that end of the car. Shortening the link (typically used on high grip and carpet) will raise the roll center and decrease grip. A similar effect can come from lowering the ballstud. You can lower the ballstud from standard by using a black short-neck ballstud.

**Battery Placement**

For most cases, run the battery in the standard forward position. Typically this will be the most stable and easiest to drive. Try moving the battery back if you encounter a low traction surface.

**Wheelbase**

Moving the wheels towards the center of the car will increase traction on that end of the car. Lengthening the front will reduce steering, shortening the front will increase steering. Shortening the rear will increase rear grip, lengthening the rear will decrease rear traction.

**Droop**

The standard settings of 5mm front and 4mm rear will work best in most cases. Reducing the droop by 0.5 to 1mm both front and rear will increase responsiveness. On carpet, you should run more droop to account for smaller tire diameters.

**Rear Toe-In**

The TC4 comes with 3 rear toe-in per side. Decreasing toe-in will decrease rear traction and increase corner speed. The optional parts needed are #31068 2.5 degree toe-in and #31069 2.0 degree toe-in blocks.

**Ride Height**

The standard starting point for ride height is 5mm front and rear and will be used at 90% of conditions. You can lower the front slightly relative to the rear to gain steering. Raise the car slightly for tracks with banking or large bumps. Some carpet tracks have a minimum ride height so check with the track manager.

**Associated Electrics, Inc.**

3585 Cadillac Ave. Costa Mesa, CA 92626 USA

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## Motor Gearing

## Spur (48 Pitch)

Pinion (48 Pitch)

	69	70	71	72	73	74	75
18	9.58	9.72	9.86	10.00	10.14	10.28	10.42
19	9.08	9.21	9.34	9.47	9.61	9.74	9.87
20	8.63	8.75	8.88	9.00	9.13	9.25	9.38
21	8.21	8.33	8.45	8.57	8.69	8.81	8.93
22	7.84	7.95	8.07	8.18	8.30	8.41	8.52
23	7.50	7.61	7.72	7.83	7.93	8.04	8.15
24	7.19	7.29	7.40	7.50	7.60	7.71	7.81
25	6.90	7.00	7.10	7.20	7.30	7.40	7.50
26	6.63	6.73	6.83	6.92	7.02	7.12	7.21
27	6.39	6.48	6.57	6.67	6.76	6.85	6.94
28	6.16	6.25	6.34	6.43	6.52	6.61	6.70
29	5.95	6.03	6.12	6.21	6.29	6.38	6.47
30	5.75	5.83	5.92	6.00	6.08	6.17	6.25
31	5.56	5.65	5.73	5.81	5.89	5.97	6.05
32	5.39	5.47	5.55	5.63	5.70	5.78	5.86

Motor	72t Spur
24-degree stock (torque based)	28
24-degree stock (RPM based)	27
19 Turn Spec	30
12-Turn Modified (Big Track)	25
12-Turn Modified	24
11-Turn Modified	22
10-Turn Modified	21
9-Turn Modified	20
8-Turn Modified	19

Motor gearing is a starting recommendation only.  
You may need to adjust your gearing according to your track size.

## Factory Team Options

1401	FT 1.30"/33mm Titanium Turnbuckles	Pr.	9.00
1414	FT 1.125"/28.5mm Titanium Turnbuckles	Pr.	9.00
1729	TC3/TC4/NTC3 HD Oneway Housing w/bearings	1	40.00
1731	HD Oneway Special Outdrive Bearings	Pr.	8.00
1785	Graphite Battery Spacer	1	8.99
3978	TC3/TC4 HD Front Oneway Assembly	1	61.99
3979	TC3/TC4 HD Front Oneway Outdrives	Pr.	21.00
3985	FT Hard Anodized Threaded Shock Kit (2 complete shocks)	Set	40.00
3990	FT Hard Anodized Threaded Shock Bodies	Pr.	19.99
31002	TC4 Carbon Chassis Braces	Set	9.99
31005	TC4 Carbon Hub Carrier & Steering Block (1 ea)	Set	10.99
31007	TC4 Carbon Front A-Arms	Pr.	10.99
31008	TC4 Carbon Rear A-Arms	Pr.	10.99
31012	TC4 Carbon Front Shock Tower	1	7.99
31014	TC4 Carbon Rear Shock Tower	1	8.99
31035	FT Motor Cooling Duct/Screen	1	5.99
31036	FT Motor Cooling Fans, prewired	2	24.99
31037	FT Motor Cooling Duct/Fan Kit	1	29.99
31039	FT Blue Graphite Battery Brace w/Chrome Decal	1	15.99
31041	TC4 Carbon Chassis	1	34.99
31042	TC4 Carbon Component Kit	Set	69.99
31046	FT TC4 Motor Mount, blue	1	21.99
31047	FT TC4 Motor Clamp, blue	1	27.99
31048	FT Aluminum Motor Heatsink, black (for std clamp)	1	9.99
31049	FT Aluminum Motor Heatsink, blue (for #31047)	1	14.99
31052	FT Titanium Turnbuckle Kit (6 + wrench)	Set	29.99
31054	FT Aluminum Screw Kit, blue (38 pcs)	Set	12.99
31057	FT Anti-Roll Bar Kit (3 bars)	Set	12.99
31058	FT Aluminum Anti-Roll Bar Studs, blue	2	3.99
31060	FT Polished Hard Hinge Pin Set	Set	9.99
31062	TC4 Lightened Steel Diff Outdrives (1 ea side)	Pr.	19.99
31064	FT Aluminum F Arm Mount - Triangle	1	12.99
31065	FT Aluminum F Arm Mount - Circle	1	12.99
31066	FT Aluminum R Arm Mount - Square	1	12.99
31067	FT Aluminum R Arm Mount - X-3.0	1	12.99
31068	FT Aluminum R Arm Mount - X-2.5	1	12.99
31069	FT Aluminum R Arm Mount - X-2.0	1	12.99

## Factory Team Tools

1110	FT Turnbuckle Wrench	1	1.50
1450	FT Ride Height Gauge	1	14.99
1541	Hex Driver Set	Set	59.99
1542	Hex Driver, .050"	1	10.50
1543	Hex Driver, 1/16"	1	10.50
1544	Hex Driver, 1.5mm	1	10.50
1545	Hex Driver, 5/64"	1	10.50
1546	Hex Driver, 3/32"	1	10.50
1547	Hex Driver, 2.5mm	1	10.50
1548	Hex Driver, 3mm	1	10.50
1561	Nut Driver Set	Set	69.99
1562	Nut Driver, 3/16"	1	12.99
1563	Nut Driver, 1/4"	1	12.99
1564	Nut Driver, 5.5mm	1	12.99
1565	Nut Driver, 11/32"	1	12.99
1566	Nut Driver, 7mm	1	12.99
1567	Nut Driver, 8mm	1	12.99
1572	Hex Driver Replacement Tip, .050"	1	5.50
1573	Hex Driver Replacement Tip, 1/16"	1	5.50
1574	Hex Driver Replacement Tip, 1.5mm	1	5.50
1575	Hex Driver Replacement Tip, 5/64"	1	5.50
1576	Hex Driver Replacement Tip, 3/32"	1	5.50
1577	Hex Driver Replacement Tip, 2.5mm	1	5.50
1578	Hex Driver Replacement Tip, 3mm	1	5.50
1593	FT Body Reamer Tip	1	9.95
1594	FT Body Reamer	1	22.00

