

# :: Introduction

Thank you for purchasing this Team Associated product. This assembly manual contains instructions and tips for building and maintaining your new vehicle. Please take a moment to read through this manual to help familiarize yourself with these steps. We are continually changing and improving our designs; therefore, actual parts may appear slightly different than in the illustrations. New parts will be noted on supplementary sheets.

#### :: KIT Features

- Mid-motor design creates improved traction and control in the vehicle's weight distribution
- Metric hardware throughout
- 28 precision ball bearings
- Durable front and rear wide body mounts
- Rear CVA drive shafts for more reliability
- V2 12mm Big Bore threaded aluminum shocks
- Rigid 4mm thick carbon fiber rear shock tower
- Heavy-duty sealed silicone-filled gear differential
- Stiff rear anti-roll bar
- Full adjustable double-ladder wheelie bar
- Low center-of-gravity chassis with multiple battery and electronics mounting configurations
- Rigid twin deck chassis design
- Ball bearing wheelie bar wheels with rubber tires for increased straight-line stability
- Machined aluminum rear bulkheads
- Machined aluminum rear suspension mounts
- Height adjustable rear gearbox provides the ability to adjust drive shaft angle
- All metal gear transmission with hardened steel top shaft
- Rugged steel turnbuckles for adjustable camber and front toe-in
- Adjustable suspension geometry
- Octalock spur gear and 11mm Octalock pads for maximum consistency and higher torque capacity
- 4-gear rear transmission configuration aids in controlling weight movement providing more traction under acceleration
- Vertical ball ends for roll center adjustments, front and rear
- Many Factory Team options already available

#### :: Additional

Your new Kit comes unassembled and requires the following items for completion:

- R/C two channel surface frequency radio system
- Electronic Speed Control, ESC
- 540 size electric motor
- Peak detection battery charger, or LiPo compatible charger
- Polycarbonate specific spray paint
- Cyanoacrylate glue (CA)(#1597)

#### :: Other Helpful Items

- Silicone Shock Fluid (Refer to catalog for complete listings)
- Body Scissors (AE Part #1737)

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- FT Body Reamer
- FT Hex/Nut Wrenches (AE Part #1519, 1650) FT Ballcup Wrench (#1579)
- Green Slime shock lube (AE Part #1105)
- Soldering Iron

- FT Dual Turnbuckle Wrench (#1114)
  Habby Knife / Wire Cuttors
- Hobby Knife / Wire Cutters



Steering servo

• 2 cell LiPo battery pack

Thread locking compound (#1596)

• Tires and Inserts, Fronts and Rears

• Shock Pliers

• Pinion gear (48P), size determined by type/wind of motor

AA-size batteries for transmitter (#302 alkaline)

- FT Universal Tire Balancer (#1498)
- Calipers or a Precision Ruler
- Needle Nose Pliers

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S Hardware – 1:1 Scale View Button Head (bhcs)

Button Head (bhcs)	Flat Head (fhcs)	Ball Bearings
(m 2x3mm (31509)	3x8mm (25201)	3x7x3mm (91475)
(xx4mm (31510) Aluminum (8545)	3x10mm (25202)	5x10x3mm (31734)
( <b>111</b> ) 2.5x6mm (31520)	3x12mm (25203)	
( 2.5x8mm (31521)	3x14mm (89208)	5x10x4mm (91560)
(mmm) 2.5x10mm (31522)	3x16mm (25204)	
( 3x5mm (31530)	3x18mm (89209)	6x13x5 (91562)
3x8mm (31532)	3x20mm (89210)	
3x10mm (25211)		
( 3x12mm (89202)		10x15x4 (91563)
3x14mm (25187)	Set Screws	Ballstuds
3x16mm (89203)	3x3mm (25225)	HD 6mm (91047)
3x20mm (25188)	3x5mm (89219)	Titanium HD 6mm (91751)
3x22mm (25189)		HD 8mm (91048) Titanium HD 8mm (91752)
(	Shims and Washers	HD 10mm (91049)
( 3x26mm (89205)	() 3 x 8mm Washer (89218)	Titanium HD 10mm (91753)
(minimum 3x30mm (91478)		Nuts (lock/plain)
	FT Ballstud Washer, Aluminum (0.5mm) (31381)	M2.5 Locknut, Shock Piston (89215)
Cap Head (shcs)	FT Ballstud Washer, Aluminum (1mm) (31382)	M3 Nut (91477) M3 Alum. Locknut, Blue (31550)
2.5x12mm (8691)	FT Ballstud Washer, Aluminum (2mm) (31383)	M3 Alum. Locknut, Blue (31550) M3 Locknut, Black (25215)
2.5x14mm (71032)	( <i>2mm</i> ) (31363)	M3 Locknut w/Flange (25612) FT 3mm Locknuts, Blue (25392)
3x24mm (89225)	Clips E-clip 1/8 (6299)	M4 Serrated w/Flange (91738) FT M4 Locknuts w/Flange, Blue (31551)

Notes:

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This symbol indicates a special note or instruction in the manual.	There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part,	
This symbol indicates a Racers Tip.	line up your hardare with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.	
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:: Bag 1 - Step 2



### :: Bag 1 - Step 3







:: Bag 3 - Step 1



Build 2 (1 left, 1 right)







:: Bag 3 - Step 4





7





:: Bag 5 - Step 2





# # Bcg 6 - Step 2 31532 20 M3 x 8mm BHCS 89202 22 M3 x 12mm BHCS 72076 DR10M ESC Mount

#### :: Bag 7 - Step 1 91463 X 72004 **Gear Diff** Metal **Planet** 91463 **Gear Diff** 91463 **Gear Diff** Washer Case, 52T **Gear Diff** Sun Gear **O-Ring** 91463 Z 42025 (Small) 91463 $\mathbf{O}$ **Gear Diff Gear Diff Gear Diff** 91463 Planet **Outdrive O-Ring Gear Diff** Gear Pin (Large) Washer #6588 91465 k grease 91463 IZ **Gear Diff Gear Diff Outdrive** 91563 **Cross** Pin 10 x 15 x 4, Bearing

### :: Bag 7 - Step 2





















#### :: Bag 9 - Step 2





Build x2 (right and left side)





#### :: Bag 11 - Step 2



#### :: Bag 11 - Step 3



#### :: Bag 11 - Step 4





:: Bag 12 - Step 1









#### :: Bag 13 - Step 3







:: Bag 14 - Step 3





:: Bag 14 - Step 5

#### **Possible Battery Configurations:**

Shorty Battery

**Standard Battery** 







### :: Tuning Tips

#### **Painting:**

Your Kit comes with a clear polycarbonate body. You will need to prep the body before you can paint it. Wash the INSIDE thoroughly with warm water and liquid detergent (do not use any detergents with scents or added hand lotion ingredients!). Dry the body using a clean, soft, lint-free cloth. Use the supplied window masks to cover the windows from the INSIDE of the body (RC cars get painted on the inside). Using high quality masking tape, apply tape to the inside of the body to create a design. Spray (use either rattle can or airbrush) the paint on the inside of the body (preferably dark colors first, lighter colors last). NOTE: ONLY use paint that is recommended for (polycarbonate) plastics. If you do not, you can destroy the body! After the paint has completely dried (usually after 24 hours), cut the body along the trim lines. Make sure to drill or use a body reamer to make the holes for the antenna if needed! Use hook and loop tape to secure the body to the side rails of the vehicle.

### **Tips for Beginners:**

Before making any changes to the standard setup, make sure you can get down the track without crashing. Changes to your vehicle will not be beneficial if you can't stay on the track. Your goal is consistent passes. Once you can get down the track consistently, start tuning your vehicle. Make only ONE adjustment at a time, testing it before making another change. If the result of your adjustment is a faster pass, mark the change on the included setup sheet (make adddtional copies of the sheet before writing on it). If your adjustment results in a slower pass, revert back to the previous setup and try another change. When you are satisfied with your vehicle, fill in the setup sheet thoroughly and file it away. Use this as a guide for future track days or conditions. Periodically check all moving suspension parts. Suspension components must be kept clean and move freely without binding to prevent poor and/or inconsistent handling.

#### **Rear Arm Mount Pill Insert Setup:**



## :: Tuning Tips (cont.)

#### **Motor Gearing:**

Proper motor gearing will result in maximum performance and run time while reducing the chance of overheating and premature motor failure. The gear ratio chart lists recommended **starting gear ratios** for the most widely used motor types. Gear ratios will vary depending upon motor brand, wind, and electronic speed control. Consult your motor and electronic speed control manufacturers for more information.

leam Associated is not responsible for motor damage due to improper gearing					
Gear Ratio Chart (	Internal	Gear R	(atio 2.60:1)		
Motor	Pinion	Spur	<b>Final Drive Ratio</b>		
13.5 Reedy Sonic Brushless	*29	*75	6.72:1		
4.5 Reedy Sonic Brushless	*22	78	9.22:1		
4.0 Reedy Sonic Brushless	*21	78	9.66:1		
3.5 Reedy Sonic Brushless	*21	*81	10.02:1		
* Optional spur gear / pinion used					



#### Set The Gear Mesh:

You should be able to rock the spur gear back and forth in the teeth of the pinion gear without making the pinion gear move. If the spur gear mesh is tight, then loosen the motor mounting screws and move the motor away, then try again. A gear mesh that is too tight or too loose will reduce power and damage the gear teeth.

#### Gearbox Height Adjustment:

Adjusting the gearbox height will effectively change rear driveshaft angle. This angle will change how the power is transmitted to the tires. Standard setting is 9mm. Lower setting might be more desirable for low traction conditions.

#### **Slipper Clutch:**

The assembly instructions give you a base setting for your clutch. Turn the nut on the shaft so that there is 6mm of thread showing. At the track, tighten or loosen the nut in 1/8 turn increments until you hear a faint slipping sound for 1-2 feet on takeoffs. Another popular way to set the clutch is to hold both rear tires firmly in place and apply short bursts of throttle. If the clutch is properly set, the front tires should lift slightly up off the surface.

#### **Ride Height:**

Ride height is the distance from the ground to the bottom of the chassis. The standard front ride height setting is 15mm (Ride Height Gauge). Check the front ride height by cycling the suspension up and down. After the suspension "settles" into place, measure ride height (Ride Height Gauge). Raise or lower the shock collars as necessary.

The rear ride height setting you should use most often is 19mm (Ride Height Gauge). Check the rear ride height by cycling the suspension up and down. After the suspension "settles" into place, measure ride height (Ride Height Gauge). Raise or lower the shock collars as necessary

### Wheelie Bar Setting:



Wheelie bar setting will vary based on track conditions. Once desired ride height is achieved, adjust the distance of the wheelie bar tires from the track surface. Standard setting is 5mm from the ground. For lower traction conditions a higher setting might be desireable.

Wheelie bar tire should never be in contract with the ground with the vehicle stationary.





Event

Drivera

Burnout Surface:	Front Compound:	Body Notes:			
Surface: Asphalt Concrete Prep No-Prep	Front Insert:	Chassis Weights:			
Traction: Low Medium High Very High	Rear Tires:	Chassis Notes:			
Temperature: Ambient: Track:	Rear Compound:	Vehicle Weight: Front: Rear:			
Tire Warmers: Yes No No Time: Temp:	Rear Insert:	Total Vehicle Weight:			
Notes:	Wheel (F/R):	Notes:			
	Notes:				
Vehicle Comments:					

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