

Thursday, 17 July 2008



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WELCOME TO SCALE 4X4 R/C

Welcome to Scale 4x4 R/C! We are the first website and forum dedicated to the scale 4x4 r/c enthusiast. We have an international group of members with amazing talent and skill. Come check out some the fantastic custom trucks built by our members. Be sure to check us out even if you aren't that familiar with the scale scene, we have plenty of information on other aspects of r/c, from crawling to flying, we're into it all!

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Check back often for updates and the latest news!

T-REX 60 PLASTIC AXLES, FINAL VERSION!

Written by Keith

Thursday, 17 July 2008



The much anticipated RC4WD Plastic T-Rex 60 axles are here at last. 😊

Here I'll take you through the overall design of the axles, what makes them work, and give you lots of pictures to look over too of course!

Read on to find out if these are the axles for your next scale build.

RC4WD has brought us another great option for nice solid axles! The Plastic T-Rex 60 axles are not only great looking, well made, but are a HUGE bargain! For \$99, you'll get both front and rear axles, complete with spools, a full set of ball bearings, even steel hexes! **They will arrive assembled and ready to go.** Check them out at RC4WD by clicking [HERE](#) !

These are 190mm wide, hex to hex, which makes it easy to keep tires tucked under the fenders. RC4WD lists them as 204mm wide, which I measured from the very end of one axle shaft to the other. Forum member "ou812" posted that he was able to machine 1/16 inch off the face of each hex, giving him a hex-to-hex width of 7 3/16 inches. That's just 1/16 inch wider than a TLT-1 axle!

On to the good stuff! Here I'll show you all the internals of these axles as I put them together and install them on the truck. Lets go!

First off, we have a rear axle case half, pinion shaft, with bearings and E-clip to hold it all together. The shaft is 5MM, with 5x11mm shielded bearings.

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Here is the axle case with the bearings and pinion installed. It's worthy of noting that the shaft has a flat spot like most others, but is also pre-drilled for using the through-pins with Traxxas trype driveshafts. The 5mm shafts are perfectly sized for the smaller (Stampede, Rustler, etc.) Traxxas driveshafts. Anyone that's ever drilled a Tamiya pinion shaft will appreciate this little extra bit of work done for them. 😊



Here, is the same half of the case, with the spool and axle shafts in place. This is all designed like most other axles, with splines in the spool and on the end of the axle shafts, and E-Clips holding the shafts in place. There are two clips, one between the inner most bearing and spool on each side. Two 5x11mm bearings support each axle shaft. The spool is aluminum with a hardened steel ring gear. Seems to be pretty beefy! The gear ratio is 2.53:1 according to the specs on RC4WD.



Now it's time to put the other half of the case on. The two halves are held together with 4 M3 screws and nuts on the tabs toward the ends of the axle, and 4 M2 screws that thread into the plastic at the center of the axle, as seen below.



Now we can install the removable center diff cover. It is held on with 10 M2 screws for a nice scale touch. Nice!



The front axle is pretty much the same as the rear, but with steering of course. 😊

Here is the axle shafts with spool in place. Again, there is two E-clips between the spool and bearings, with two 5x11mm bearings on each shaft.



The front axle case is also held together by 4 M3 screws on the outer tabs, and 4 M2 screws at the center like the rear axle.



Note in the pictures above, that the axle is turned down at the ends far enough that the drive cups won't bind on the shafts. This will provide maximum steering possible! Below is about as much steering as you can get with no binding.

Also note that front axle stubs ride on two 5x11mm bearings as you would expect. The hubs ride in the axles supported by two shouldered bearings on the ends of the axles, and an M3 screw through the bearing and into the hubs. This results in a nice smooth and tight steering!



Included with the axles are a set of plastic 4-link mounts. These consist of a top and bottom half, that "clamp" around the axle with two M3 screws each. They are keyed onto the axle via a "notch" on the axle cases, and a little ridge in the bottom half of the 4-link mount. This should keep everything lined up true. It's also worth mentioning that the **aluminum 4-link mounts** will also fit the plastic axles. The plastic and aluminum mounts are identical in physical size and shape. They will no doubt make a nice upgrade for the hardcore crawlers! Pictured below is a plastic mount (top) and aluminum mount (bottom). Note the notch in the axle case also.

Another option is the **aluminum servo mounts** for an axle-mounted steering servo.



Here is the plastic mount fit onto the axle. These fit quite well, and seem to hold fairly strongly. I will note that the original pre-release plastic mounts were a bit weak and stripped easily, but RC4WD made the necessary changes to the plastic compound, and these final ones seem MUCH better! I should also mention that the **aluminum leaf spring mounts from RC4WD** will also fit these axles.



Another view from the bottom of the axle...



So, now it's time to mount these axles up to the truck and finish up! Below are picture of the front and rear axles mounted from various angles, and everything should be self-explanatory! 😊







So, my final thoughts are that these axles are a very welcomed addition to the available options out there, and at the price of \$99 for everything you get, these are hard to beat! Nice look, nice design, nice price.

Here are the links from the review for easy reference:

Axles - http://rc4wdstore.com/product_info.php?cPath=60&products_id=821

Aluminum 4-link mounts - http://rc4wdstore.com/product_info.php?cPath=60&products_id=673

Aluminum leaf mounts - http://rc4wdstore.com/product_info.php?cPath=60&products_id=729

Aluminum servo mounts - http://rc4wdstore.com/product_info.php?cPath=60&products_id=723

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