Firstly the tools you will need for this job are as follows.

A decent metric ratchet set including:

14mm attachment

10mm attachment

ratched extention (recommended but not required)

14mm wrench

a can of Liquid Wrench, PB, WD-40 or a Silicon spray lubricant if you prefer.

A prying tool, (long screw driver, even a long wrench, or 18" wooden dowel to protect from scratching the under carriage)

5/32" alan wrench (for removing silencers)

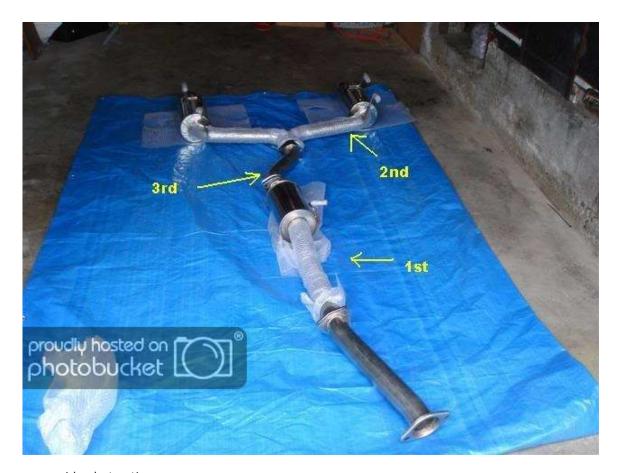
a tarp or something to lay on, the tarp makes it easy to wiggle back and forth though.

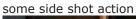
The whole project from taking off the stock exhaust system to putting this one on took me a leisurely 6-7 hours by myself. If you have a partner this will go much quicker and easier! Also note that I did not install the test pipe that was included. If you wish to, before step one, remove the catalytic convertor and install the test pipe.

I'm starting from the point of having the stock system already removed since there is already a great write up provided by Legal Bill in the DIY section. So lets get started.



Here is what your T1R system will look like all laid out, the numbers reflect the order we'll install the respective pieces. (if installing test pipe, install that first)







Now before you start removing all the bubble wrap if you haven't already, I recommend leaving it on the exhaust canisters and exhaust tips until you have secured the pieces to the car. this will help prevent dents and scratches if you happen to drop a piece during installation. You can go ahead and remove all the wrap from the unfinished pipe sections, flange ends, and the hangers though.

So from under the car first take the provided 3 hole gasket and place it on the end of the cat. it will only fit one way.

(Note the first rubber hanger at the top left of the picture.)



Next we'll be installing the following piece, the long pipe end connects to the cat. This section has one hook that will connect from right to left on the rubber hanger, the rest of the hooks/hangers install front to back. At this point you'll want to lubrish that with an authority hanger in the previous piece.

want to lubricate that rubber exhaust hanger in the previous pic w/ liquid wrench.



First rest the long end of the pipe on the bolts of the cat, this way you'll have more leverage while you connect the

exhaust hook at the other end of the pipe.

With that end supported, lift the canister end with one hand and guide the hook into the rubber hanger with your other hand. if you need both hands to get the hook secured you can try resting the canister end on your knee\leg while you work the rubber hanger. This is where your prying tool may come in handy, you can use it to push the rubber hanger onto the hook by pressing one end against the car for leverage. Once you have the hook secured attach the three nuts



Next we'll attach the dual exhaust canisters leaving the small middle pipe for last. this allows you space to move the exhaust canisters back and forth to get them attached to the four rubber hangers. The numbers represent the order I attached the hooks to their respective rubber hangers. Make sure to lubricate all four rubber hangers. Also note I have removed the two rear rubber hangers from under the car and attached them to the rear hooks prior to making the first connection. If installing by yourself i recommend getting a cooler (as pictured below) or something of equal height to rest one side of the exhaust on while you lift the other side into place. Otherwise your helper can hold up the opposite side. Don't forget your prying tool, this part is tricky! use plenty of lube





With all four hooks secured it should look like this. You can remove all that wrap now though \bigcirc



Now to the last piece, of the provided parts you will need those (2) 2-hole gaskets, (4) 14mm nuts, and (4) 14mm bolts.



Getting this last piece in place was a pain in my @\$\$holes. Situate yourself under the car with the bolts, nuts, & gaskets close by and ready to grab. Hold the pipe in place with one hand and with the other place a bolt through the rear right flange hole with the 14mm end of the bolt facing the front of the car. Next take one of the gaskets and slip it between the dual canister exhaust flange and the middle pipe. Try and clamp that gasket in place with the hand that's holding

that end of the pipe up. Now take a second bolt and place it through the front right flange hole. Quickly grab the third bolt and place it through the front left flange hole. At this point the pipe should be somewhat supported by the bolts.



Take 2 of the 14mm nuts and secure them to the dual canister flange bolts with your 14mm ratched on one side and your 14mm wrench on the other side. You'll have to swap the ratch and wrench roles on the right side of the flange.



Once those bolts are secured remove the rear right bolt that we first put in, slip the second gasket in between the flanges and repeat the last step. (2 nuts, 2 bolts). Torque your nuts and bolts down and go over each flange connection to make sure they are air tight.

Now you'll want to remove any plastic protective film or bubble wrap that you may not have previously removed. There is plastic film on each of the three T1R logo plates and on the exhaust tips. Make sure you remove the alan wrench nuts that secure the silencers so you may remove the plastic film underneath the nuts. You don't want that film to melt to your exhaust.

You may now start the car and listen for air leaks at the flange connections. Be careful not to touch the exhaust with your head or hands. 🕙

During my test I didn't hear any leaks, but i did notice moisture drips from each flange connection. Turn off the car and torque the bolts accordingly. If no air or moisture leaks

Lastly reinstall your rear support bar, attach wheels, lower your ride and admire all your hard work & new exhaust!





(If you're experiencing a rattle, see my post below for a solution)

Here is a picture of the test pipe & CEL fix that I'll install in the future.



My initial impression of this system is "Wow that's still f'n loud!". I'm coming from the T1R 70mm single w/ test pipe. When the silencers are out on the sparrow it sounds just a little less loud than my 70mm single. Although the single had the test pipe on and the Sparrow is running at catback. When I have the silencers in, the sound is almost comparable to stock, a little deeper though.

Video/Sound clips

here's a short clip with the silencers in on the freeway (cat is on)

Freeway clip, silencers in.

Another clip and i'm sure it's the one everyone wants to hear.

Test Pipe on, silencers out, vtec mania

More clips to come, including my vtec tunnel run



you can check out the other two tunnel clips from my youtube profile. -Spence

Finally, for those who'd like to know. Here is my dyno read out from blacktrax performance. the dark bottom line was my base line, the mods included in that run are

the T1R 70R sparrow exhaust, AEM CAI, and my comptech LW flywheel.

the higher grey line is with all the above and a tuned AFC Neo.

so i hear AP1's usually put down around 190 WHP stock. so if you have just a CAI and this exhaust i'd imagine you gain around 8 WHP. Although i never did a stock baseline so i couldn't tell you the true gains of the exhaust.

