

Radiator installation.

Congratulations on your purchase on your new aluminum radiator. This radiator is designed to be installed in 1uz swapped 1989 thru 1995 Toyota pickups and 4runners. These instructions are designed to guide you on the installation process, not be an end all of what is required for a successful installation. Remember that an engine swapped rig is designed by you so adjustments and modifications may be necessary based on your vehicle, or installation of other products. If you have questions along the way please feel free to contact us and we will do our best to help you thru the installation process.

We stand behind what we sell. We warranty our in house products for 30 days from date of purchase against defects in materials or workmanship prior to installation. All products we carry and sell that are from outside sources will carry the warranty that those manufactures supply. We do not warranty any product from willful neglect or abuse and there are no refunds on electrical parts. The consumer will need to request a return authorization number from us prior to returning any product. Any products returned will need to be inspected by us. Upon our inspection if we find a defect we will either repair or replace the part at our discretion. All returned items must be in new condition and are subject to inspection. If you have a problem with any products we sell, please feel free to contact us and we will do our best to get you taken care of and back out enjoying your Toy again!

Product and Application Waiver All products sold by North West Toy's, LLC are sold for off-road use only. Any other use or application is the responsibility of the purchaser and/or user. Rock crawling and off-road driving is an inherently dangerous activity. Some modifications will adversely affect the on-road handling characteristics of your vehicle. Some modifications and installation of certain after-market parts may under certain circumstances void your original dealer warranty. Modifications of your vehicle may create dangerous conditions, which could cause serious bodily injury or death. Buyers and users of these products hereby expressly assume all risks associated with any such modifications and use. North West Toy's, LLC also recommends strongly that all products be installed by trained professionals only. Please contact us prior to returning products. Since each vehicle is a custom build some parts we sell may need to be trimmed, or slightly modified to fit your vehicle. You are the final builder of your vehicle. Once a part has been modified it can't be returned.

Please read our warranties/conditions page prior to purchase. You are the builder and end user of your vehicle and any product you buy. We are not liable for any and all issues, problems, or liabilities associated with their use. If you don't agree with the warranties and conditions please don't buy our products

Tools required

Grinder

Side cutters

Flat tip screwdriver

Metal shears

Drill

½" Drill bit

12mm socket

6" socket extension

3/8" drive ratchet

Items needed to complete installation but not supplied with radiator

Hose clamps

Upper and lower hoses

4 mounting bolts

¼" thick x 2"x 12" rubber strip. Used as isolator pads. Coolant hose cut can work as well.

Minimum 1" body lift is required for this radiator to fit without removal of lower cross member

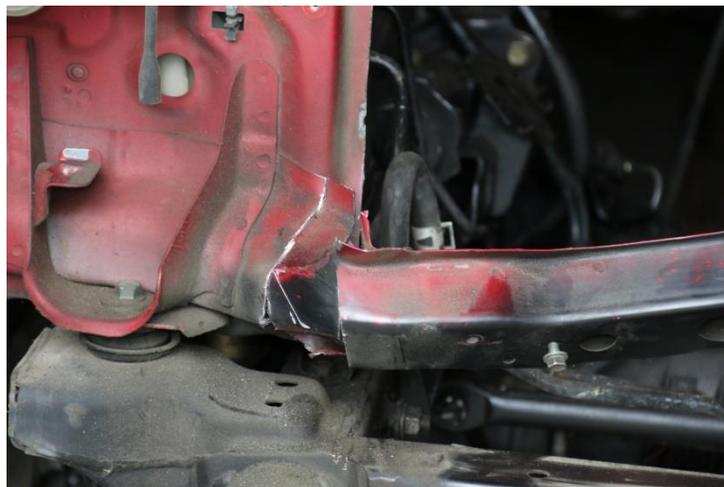
Bolts and nuts to secure new radiator

Installation of radiator

1. Start by removing stock radiator after draining coolant. Recycle coolant appropriately. Once radiator is removed it is time to make modifications to your rig to now fit this radiator. Remove the hood release latch from the core support. Once the latch is removed it's time to cut approximately $\frac{1}{2}$ " to $\frac{3}{4}$ " of material needs to be removed from core support where the original radiator mounted.



2. Now it is time to remove the front of the core support cross brace. You will need to cut the brace far enough back so as to create enough room for the radiator to sit in its place. Usually trimming back to the width of the new core support hole is enough. If you want something cleaner you can remove spot welds and pull the whole brace out.



3. Moving on to the front frame brace. What you will end up with is an “L” shaped bracket for your brace. You can either remove the brace as a whole, and replace with an angle iron; or you can cut and hollow out the OEM brace. If you choose to go the hollowed out route, start by cutting along the top of the brace towards the front of the brace. Second cut the bottom back side of the brace. Once both plates are cut you can cut the brace near the frame rail and removed. Once that’s done the top and back part should come off and be thrown away. With the top and back part of the cross member removed you will need to remove the welded in nuts from the bottom and front plate. Once removed this will give a nice smooth place for the radiator to sit. Rubber isolator pads can be installed to cushion the radiator from the steel.



4. With the radiator in place it is now time to drill new 12mm holes thru the core support and radiator flange. Once the holes are drilled you can bolt the radiator in place. The radiator mounting flange may sit slightly out from the core support at the bottom. You can put rubber isolator pads between the flange and core support to eliminate this gap and provide a cushion for the radiator against the core support.

5. It's now time to make adjustments to the hood latch. You will remove the bolt hole tab located at the bottom of the latch and the metal guard that is found on the bottom of the hood latch. Cut this tab off and grind smooth the bottom of the latch. Once smooth you can reinstall back onto the rig. Here is what the latch will look before and after adjustments. Once adjusted this latch will have about $3/16^{\text{th}}$ of an inch between it and the radiator top. It's tight but more than doable.



Now it's time to cut the center mount off the grill. You will no longer need this mounting location. If running A/C the grill will need to be flat, while if you are not running the A/C condenser then trim as needed.

It's time to fill the radiator with fluid. To top the cooling system off you can add coolant thru the burp bolt located at the top of the engine coolant bypass. This bolt is found right behind the location of the thermostat.