



**E9X (335) N54, N55, FACTORY
INTER COOLER UPGRADE**
(Install time 1.5 hours)





AA Inter cooler – (IC-335S)
(2) 45 degree 2.5 inch Silicone hoses.
(1) 90 degree Aluminum pipe.
(4) #40 hose clamps



Remove under panel (8mm head screws)



Pull clips for pipes on both sides



Remove T25 Torq screws from both sides of inter cooler



Pull down on inter cooler, stretching spoiler to let inter cooler pass.



Inter cooler removed. Forward lip will need to be trimmed



Cut 1 inch off of the forward lip so that inter cooler will be able to pass into space



Cut carefully with Air saw

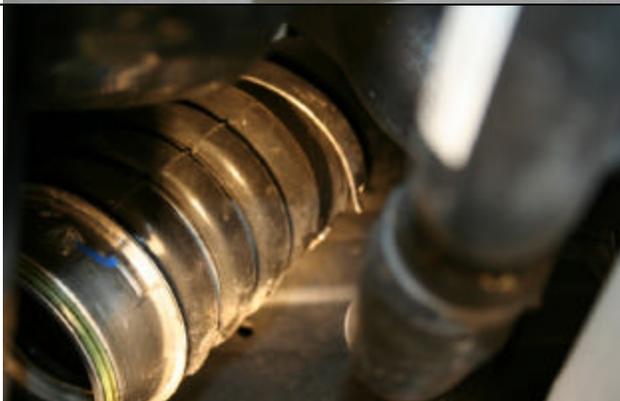


A 1 inch by 36 inch section will be removed



On passenger side of car (Right) locate where clamp is joined and use long screw driver to pry apart. Remove flex hose.

Flex hose will not be reused.



If joint is not in an accessible position a die grinder will have to be used to split clamp.



From the top of the car driver's side (left) loosen discharge pipe clamp (8mm).



Note tab on side of pipe; pull up on pipe from the top to release the tab from the radiator.
Remove pipe from under car.
N55 pipe



N54 pipe



AA replacement pipe.



Turn and pull out pipe from under the car.



Remove air duct. This will give you more space to adjust the new pipe.



Screws to remove air duct.



Feed new AA pipe through the top and adjust.

Short side to discharge pipe.
Long side to inter cooler.



Position pipe so that it is not touching anything. Tighten clamp to keep hose in position.



N54 with AA BOV discharge pipe will mount up the same way.



Pre-set 45 degree 2.5 inch Silicone hose on drivers side (left) of the inter cooler.

Do not set clamps yet.



Pre-set 45 degree 2.5 inch Silicone hose on the passenger side (Right) of the inter cooler.

Do not set clamps yet.



Fit new inter cooler with hoses in to opening by stretching spoiler lip.



Hose position passenger side (Right)



Hose position drivers side (Left)



Inter cooler will fit around Automatic transmission cooler



Align hoses with pipes and radiator shroud with tabs.
Remove inter cooler and set clamps.

Re install inter cooler



Use back original mounting holes and screws for AA inter cooler.



Tighten all clamps.



Re install under panels.
Warning: Careful when using back front center screw. Screw may bore into inter cooler. If too close leave out



Inter cooler centered in grill.