



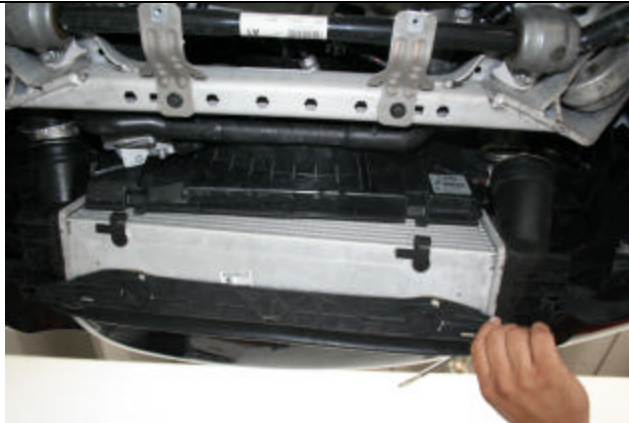
**E8X (135) N54, N55, FACTORY  
INTER COOLER UPGRADE**  
(Install time 2-2.5 hours)



	<p>AA Inter cooler – (IC-335S)  (2) 45 degree 2.5 inch Silicone hoses.  (1) 90 degree Aluminum pipe.  (4) #40 hose clamps</p>
	<p>Remove both under panels (8mm head screws)</p>
	<p>Front and rear panels (can be taken down together)</p>
	<p>Pull clips for pipes on both sides</p>



Remove T25 Torq screws from both sides of inter cooler



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



Plastic frame in front of grill.



Lower half of plastic frame has to be removed.



Hold up the new AA inter cooler under the plastic frame and center it. Note the Inter cooler goes right to the corner. Mark a line.






Draw line on either side of the frame going up the corner and across the top. Repeat for other side.



Draw line across top of middle frame supports.



	<p>Cut carefully with Air saw</p>
	<p>Remove cut section.</p>
	<p>Trim off tabs on grill</p>



Draw line with straight edge, and cut off tabs with Air saw.



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).

 A black, curved metal pipe with a silver-colored flange at one end and a small tab on the side.	<p>Note tab on side of pipe; pull up on pipe from the top to release the tab from the radiator.</p> <p>Remove pipe from under car.</p> <p>N55 pipe</p>
 A black, curved metal pipe with a silver-colored flange at one end and a small tab on the side.	<p>N54 pipe</p>
 A silver-colored, curved metal pipe with flanges at both ends.	<p>AA replacement pipe.</p>
 A close-up view of the pipe being removed from the underside of a car, showing the surrounding mechanical components.	<p>Turn and pull out pipe from under the car.</p>



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.



	<p>N54 with AA BOV discharge pipe will mount up the same way.</p>
	<p>Preset 45 degree 2.5 inch Silicone hose on drivers side (left) of the inter cooler.</p> <p>Do not set clamps yet.</p>
	<p>Preset 45 degree 2.5 inch Silicone hose on the passenger side (Right) of the inter cooler.</p> <p>Do not set clamps yet.</p>
	<p>Fit new inter cooler with hoses in to opening by stretching spoiler lip. Additional trimming of sides maybe needed before final mounting.</p>



Hose position passenger side  
(Right)



Hose position drivers side (Left)



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: Do not use back front center screw. Screw may bore into inter cooler.**



Inter cooler centered in grill.