



# INSTALLATION INSTRUCTIONS

## APPLICATION: 2011-2014 MUSTANG GT 5.0

### TRANSMISSION COOLER KIT - PART # 20541



**Please read these instructions completely before beginning installation**

#### KIT CONTENTS

QTY.	DESCRIPTION	QTY.	DESCRIPTION
1	16 Row Stacked plate cooler	8	1/4" Stainless Steel Washers
2	Aluminum Dual cooler brackets	8	1/4-20 Locking Nuts
2	Mounting brackets	2	-10AN x -10AN alum fitting
4	M8-1.25 x 40mm 10.9 hex head bolts	2	1/2" NPT to 8AN fitting
4	M8-1.25 nylon lock nuts	2	Pre made braided hoses
4	M8 flat washers		
8	1/4-20 Button Head Stainless Bolts		

#### TOOLS NEEDED

11mm wrench	8/10 AN wrenches
13mm wrench	Trimming tool
11mm socket drive	Thread sealing tape
7mm socket drive	Plastic fastener removal tool
1 1/8" socket drive	OR flathead screwdriver
3/8" drive ratchet	2 quart of oil
1/2" drive ratchet	Various ratchet extensions

#### VEHICLE PREPARATION

1. Park vehicle on a solid, level surface and allow vehicle to completely cool before beginning installation.
2. Engage the parking brake.
3. Disconnect the Negative (-) terminal on the vehicles battery.

#### REMOVAL OF BODY COMPONENTS

1. Begin by removing the plastic fasteners holding the plastic radiator cover in place and lift off the whole piece (See Diagram #1).
2. Remove the (2) 8mm bolts close to the inside of the headlights (See Diagram # 2).
3. Remove (2) 7mm screws in the edge of the wheel well from each side of the bumper (See Diagram # 3).
4. Remove (10) 7mm screws on the front air dam and remove the piece to set aside. (See Diagram # 4).
5. Remove (3) 8mm screws from the service cover and let hang in place (See Diagram # 5).
6. Unhook connectors for side marker lights and remove ambient temp sensor from the lower grill opening.
7. Unhook the fog lights (if applicable).
8. Lift the bumper skin off the vehicle and set it aside in a safe location (See Diagram # 6).
9. Remove the four tree clips holding the bumper crush foam onto the crash bar and set aside for re-installation (See Diagram # 7).



Diagram 1



Diagram 2



Diagram 3



Diagram 4



Diagram 5



Diagram 6



Diagram 7

## PREPARATION OF THE KIT

1. Take the two cooler brackets and locate the cooler so that the mounting tabs are on the front of the unit with the cooler located in the passenger-side position of the brackets.
2. Mount the cooler into the brackets using the supplied hardware kit and tighten all the way.
3. Once cooler and brackets are assembled (See Diagram # 8), loosely assemble the mounting brackets onto the holes of the cooler assembly.
4. Lubricate o-rings on fittings for cooler then install and tighten down into the cooler.



Diagram 8

## INSTALLATION

1. Place cooler onto the upper and lower inner bolts from the crash bar then loosely secure in place with the provided nuts.
2. Remove the 10mm nut on factory stud located just right of the radiator then install the angular bracket and reinstall the nut back in place tightly.
3. Loosen spring clamp on factory cooler side of upper transmission cooler hose and pull hose off factory cooler.
4. Insert barb to AN connector onto short length of provided rubber hose and clamp fitting onto hose. Clamp opposite end onto the upper factory cooler barb (See Diagram 9).
5. Insert other barb to AN connector onto the removed factory hose and clamp in place (See Diagram 10).
6. Tighten the 90° fitting on the short hose to the upper factory cooler hose, and tighten the other 90° fitting onto the outer fitting of the cooler (See Diagram 10).
7. Secure the straight fitting onto the factory hose connection (See Diagram 11).
8. Prefill the cooler using a funnel pouring slowly into the inside fitting. Once full, secure the 90° fitting from the long hose onto the cooler (See Diagram 12).
9. Test run vehicle and ensure all connections are tight and leak-free before proceeding.
10. Using any cutting tool available, trim the rubber radiator seal to allow the hoses to pass through without bending (See Diagram 13).
11. Reverse steps for the body components and complete installation.

NOTE : Lower grille may require slight trimming on top edge to clear the cooler.  
Cut slowly and move in small increments to avoid over cutting.



Diagram 9

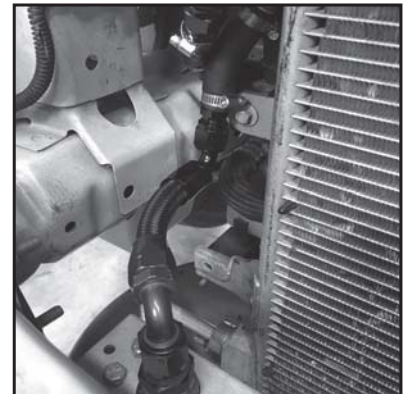


Diagram 10



Diagram 11



Diagram 12



Diagram 13

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**Warning:** Installation of accessories should only be undertaken by those with mechanical knowledge and are familiar with working on vehicles. Always use eye protection (goggles, safety glasses or shield). Park the vehicle in a well lit area, on level ground and apply the parking brake. Only work on a cold vehicle that has been sitting overnight, failure to do so will result in severe burns and injury. Before starting the vehicle, make sure no tools or any other items are left under hood that could interfere with or be drawn into moving parts of the engine. Failure to follow instructions can lead to severe damage and personal injury.