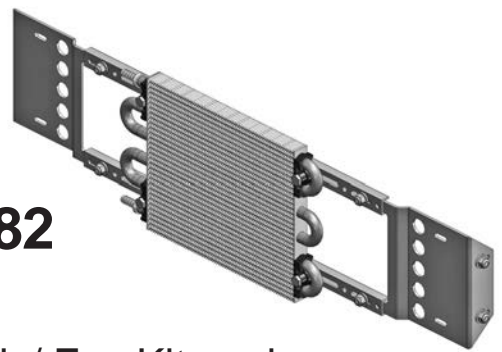




Flex-a-Fit[®]
ALUMINUM RADIATORS



COOLER KIT - Corvette C3 1968-1982

Part #4116C3 & 41166C3

Use with #52180C3 & #52181C3 Rad. / Fan Kits only

“Auxiliary transmission cooler” - Automatic Transmission Only

Note: Always read instructions and verify kit contents prior to installation.

Cooler 1ea.
L-Brackets..... 2ea.
Channel 2ea.
Rubber Hose @ 4ft..... 2ea.
(Hose Not included with #41166C3)
Instruction Sheet 1ea.
Flex-a-lite Decal..... 1ea.
*Hardware Kit 1ea.

** Hardware Kit Includes:*
bolt hex head 1/4-20 x 1-1/2”(4ea)
T-bolts (8ea)
nut nylock 1/4-20 (12ea)
flat washer 1/4” I.D. (8ea)
gatorclip 1/2” (8ea)
worm drive hose clamp (4ea)
nylon tie straps (4ea)

INSTALLATION INSTRUCTIONS

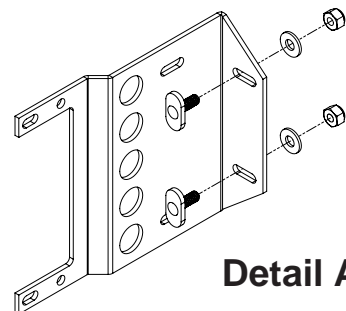
We recommend installing the transmission cooler kit with the radiator removed from the vehicle. The additional room allows for easier access to the tight space where the cooler is to be installed.

Instructions for removal of the Corvette C3 1968-1982 stock radiator can be downloaded.

BE SURE THE ENGINE IS COOL BEFORE PROCEEDING!

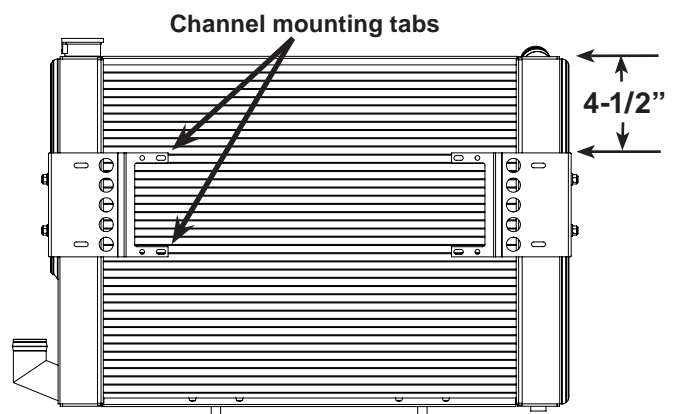
1. Start installation by laying out all contents of kit and compare to parts list above.
2. Disconnect transmission lines from radiator. Cap the ends of metal transmission cooling lines to prevent line leakage. Be mindful of possible leakage from fittings of radiator during removal of radiator from vehicle.
3. After the radiator has been removed, or if installing the cooler kit with new radiator, you will start by mounting the “L-brackets” to the channel on the outside of radiator tanks. To prepare mounting L-brackets for placement onto radiator side tanks: Insert the T-bolts (2ea. per bracket) through slots on the short side of L-bracket from the inside and next to bend. Loosely place 1/4” flat washers and then 1/4”-20 locknuts on end of T-bolts. **(see Detail A)**
4. Slide L-brackets with attached T-bolts down side tank track closest to machined side of radiator tanks. Attach L-brackets to both sides of radiator so that the channel mounting tabs of the L-brackets are facing each other. Distance of bracket edge to top plate of side tank should be ~4-1/2”. **(see Detail B)**
Note: Inside face of each L-bracket should be flush against machined side of radiator tank.

Pre assemble “L-bracket” with hardware prior to placement on radiator side tank.



Detail A

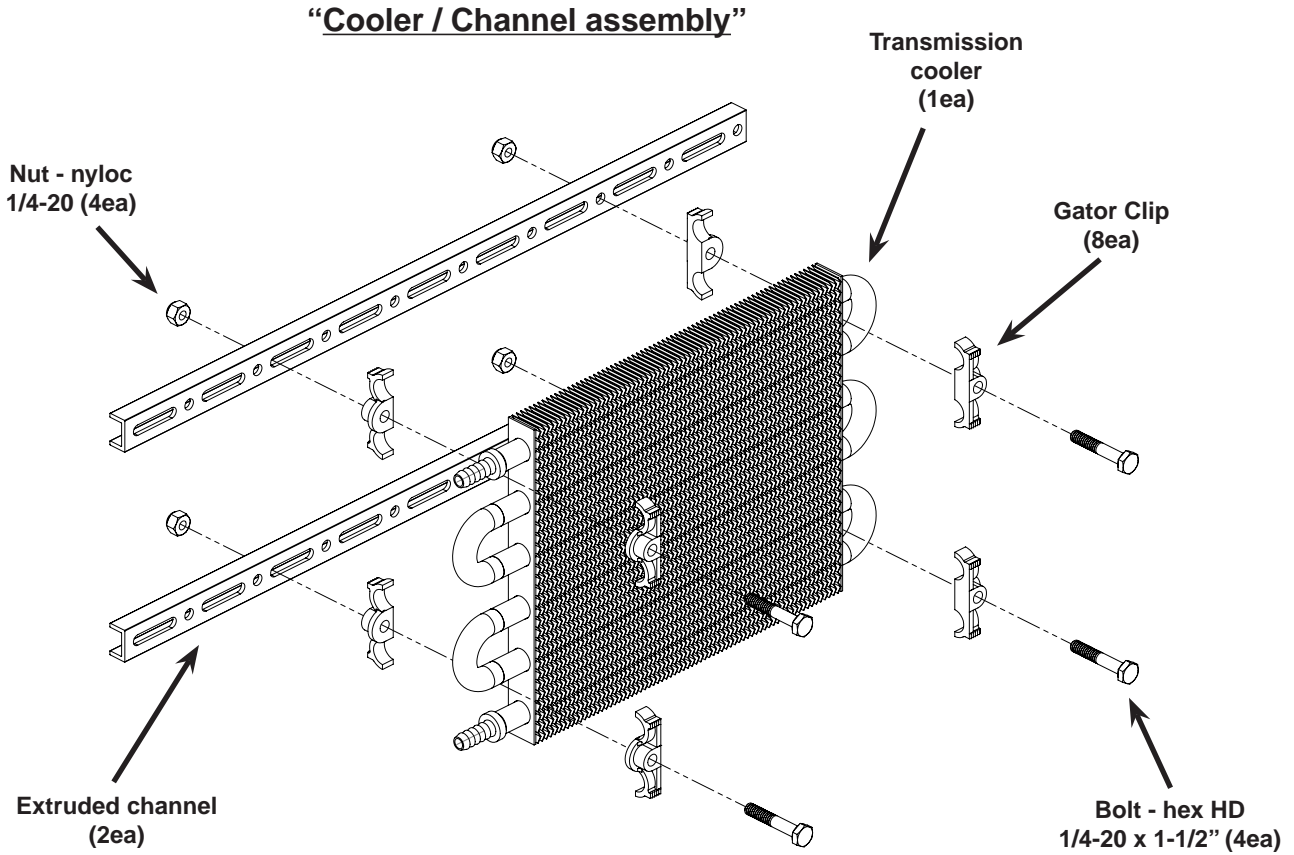
Mount L-brackets to out side T-track of radiator tanks



Detail B

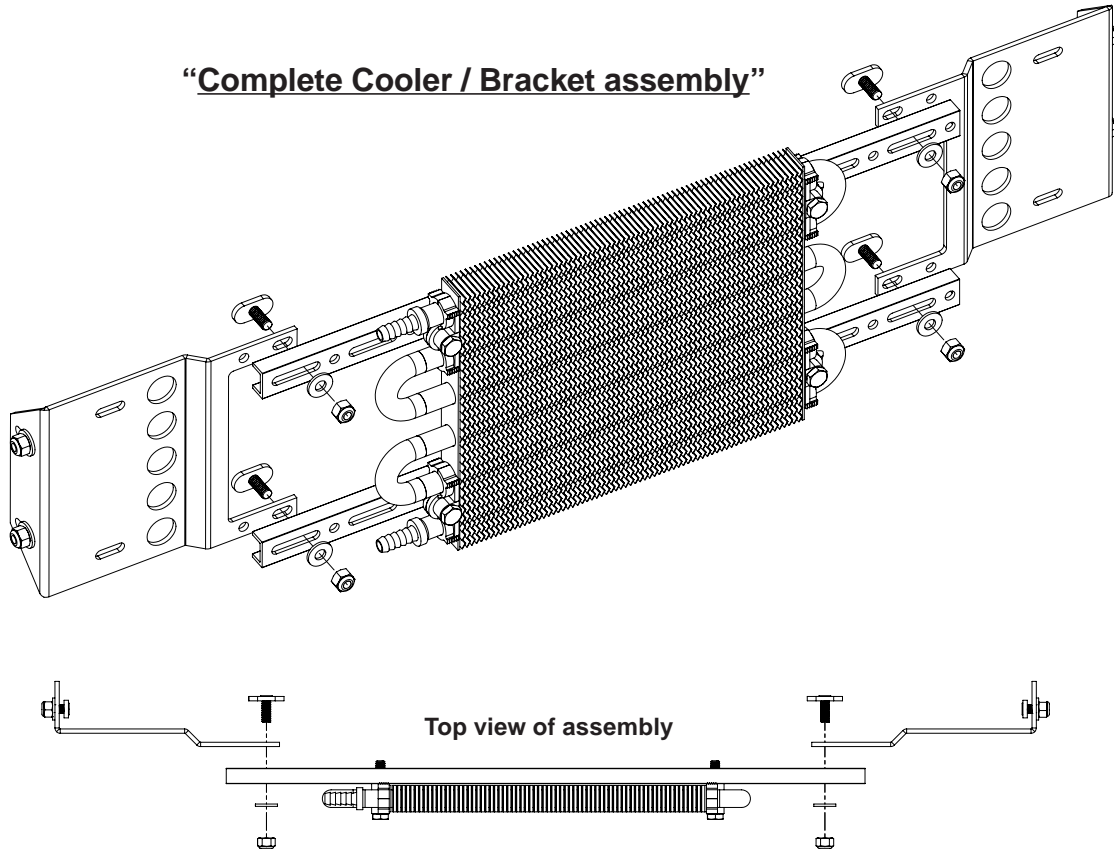
5. With L-brackets attached to radiator side tanks, the next process will be to assemble the cooler / brackets assembly. Utilizing gator clips (8ea), hex bolts $\frac{1}{4}$ -20 x 1-1/2" (4ea), 1/4" flat washers (4ea), and nylock nuts $\frac{1}{4}$ -20 (4ea), attach channel to cooler as shown below. (see Detail C)

Note: Center cooler between channel ends. Keep channel ends aligned horizontally when tightening assembly together.



Detail C

6. The cooler with all bracketry is completed by positioning the cooler / channel assembly onto pre positioned L-brackets. Attach channel ends to mounting tabs of L-brackets, with T-bolts (4ea), 1/4" flat washers (4ea), and nylock nuts $\frac{1}{4}$ -20 (4ea), as shown below and tighten securely. (see Detail D)



7. If installation of cooler was completed on radiator “outside” of vehicle, now would be the time to install / reinstall radiator into vehicle. For suggested installation instructions for Flex-a-lite radiator & fan kits #52180C3 & 52181C3 reference instructions provided with kit.

8. Connect cooler lines:

For 4116C3: Use the hoses and hose clamps provided in the kit to connect to barbed fittings of the new cooler.

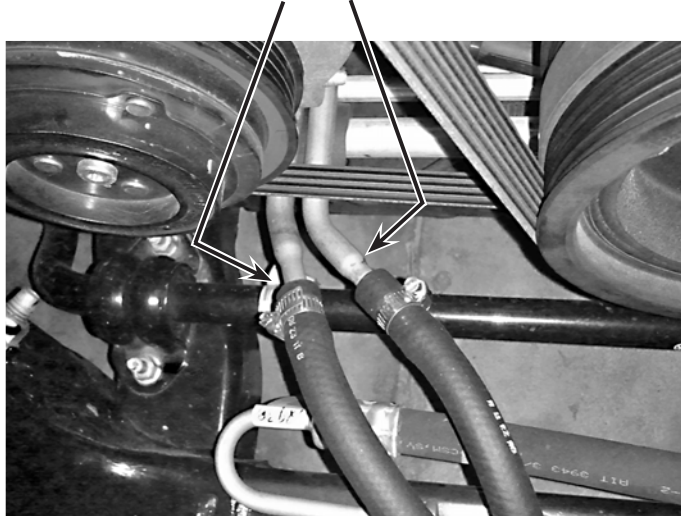
For 41166C3: Attach lines with 6AN female fitting (Not Included) to 6AN male fittings of the new cooler.

9. Rout hoses to metal transmission cooling lines. Remove capped ends from lines and attach hoses. Trim hose length as necessary and route hose path to provide a clean fitment. Slide rubber hoses over flared transmission lines and secure each with provided hose clamps. Use provided nylon tie straps to secure routed hose.

Note: To help with sliding of hoses onto metal lines, coat ends of metal lines with clean transmission fluid.

Note: BE SURE that all moving parts of the engine, electric fan and cooling line / hoses (where applicable) are clear of each other before proceeding!!

Trim and attach hoses to transmission cooling lines.



Detail E

Note: Picture for demonstration purpose only. Not actual vehicle shown

10. Note: We suggest following the vehicle manufacture's recommended transmission fluid level checking and filling procedure before operating the vehicle on the road.

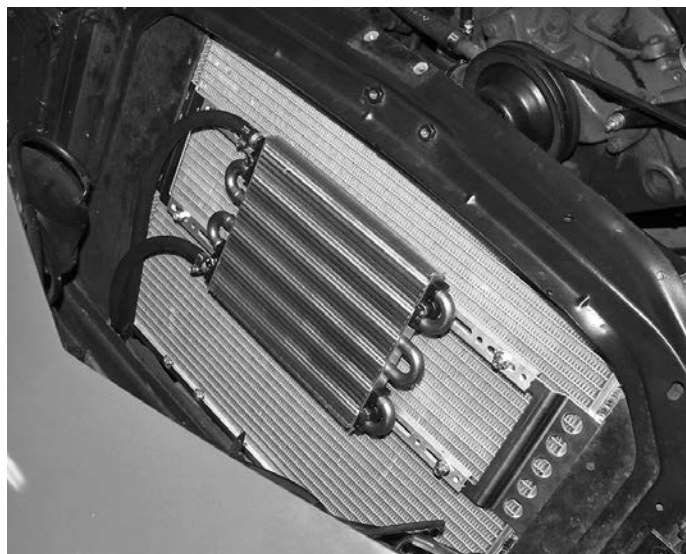


Image of cooler installation