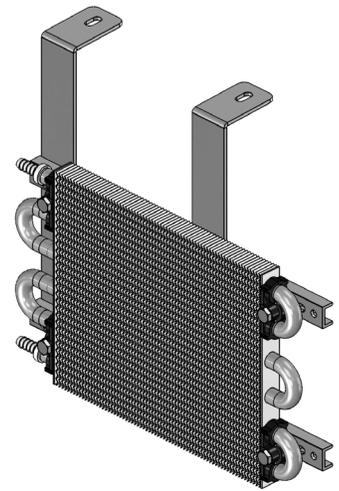




**Flex-a-Fit**<sup>®</sup>  
ALUMINUM RADIATORS



## COOLER KIT -

### Jeep Cherokee XJ 1987 - 2001

#### Part #4116XJ & 41166XJ

Recommended - Rad. / Fan Kit #67108

& Rad. only Kit #67100 for replacement

*“Auxiliary transmission cooler” - Automatic Transmission Only*

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

Cooler ..... 1ea.  
 Brackets, Cooler Mounting ..... 2ea.  
 Channel ..... 2ea.  
 Rubber Hose @ 4ft..... 2ea.  
 (Hose **Not** included with #41166XJ)  
 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)  
 nut nylock 1/4-20 ..... (4ea)  
 gatorclip 1/2” ..... (8ea)  
 worm drive hose clamp..... (4ea)  
 nylon tie straps ..... (4ea)  
 plastic spacer..... (4ea)  
 screw PH 1/4-20 x 1/2” ..... (4ea)

## INSTALLATION INSTRUCTIONS

**Note: Special Tools Required: “tubing cutter” & “flaring tool”**

*Note: To view these instructions, visit [www.flex-a-lite.com](http://www.flex-a-lite.com) or call 1-877-767-0554 or FAX: (253) 922-0226 for Technical Assistance. It is HIGHLY recommended to read and review these instructions prior to installation.*

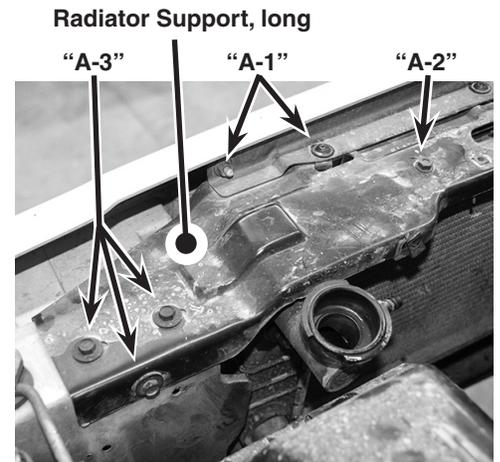
**BE SURE THE ENGINE IS OFF AND COOL BEFORE PROCEEDING!**

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 the metal transmission cooling lines to prevent line leakage. Be mindful of possible leakage from fittings of radiator during removal of radiator from vehicle.
3. Remove existing cooler (if applicable):  
 Because the existing cooler is designed to run through the radiator tank for additional cooling, there is no longer a place to connect the transmission cooler lines. The replacement Flex-a-lite cooler 4118XJ is a higher capacity direct fit transmission cooler that will better meet your transmissions’ cooling needs and improve its life expectancy.
4. Grill removal:  
 Remove the headlight beauty rings and then the front grill. Removal of the grill allows you to position the cooler with connected brackets and make adjustments as necessary.

## Installation instructions continued from previous page

5. Removal of top radiator support:

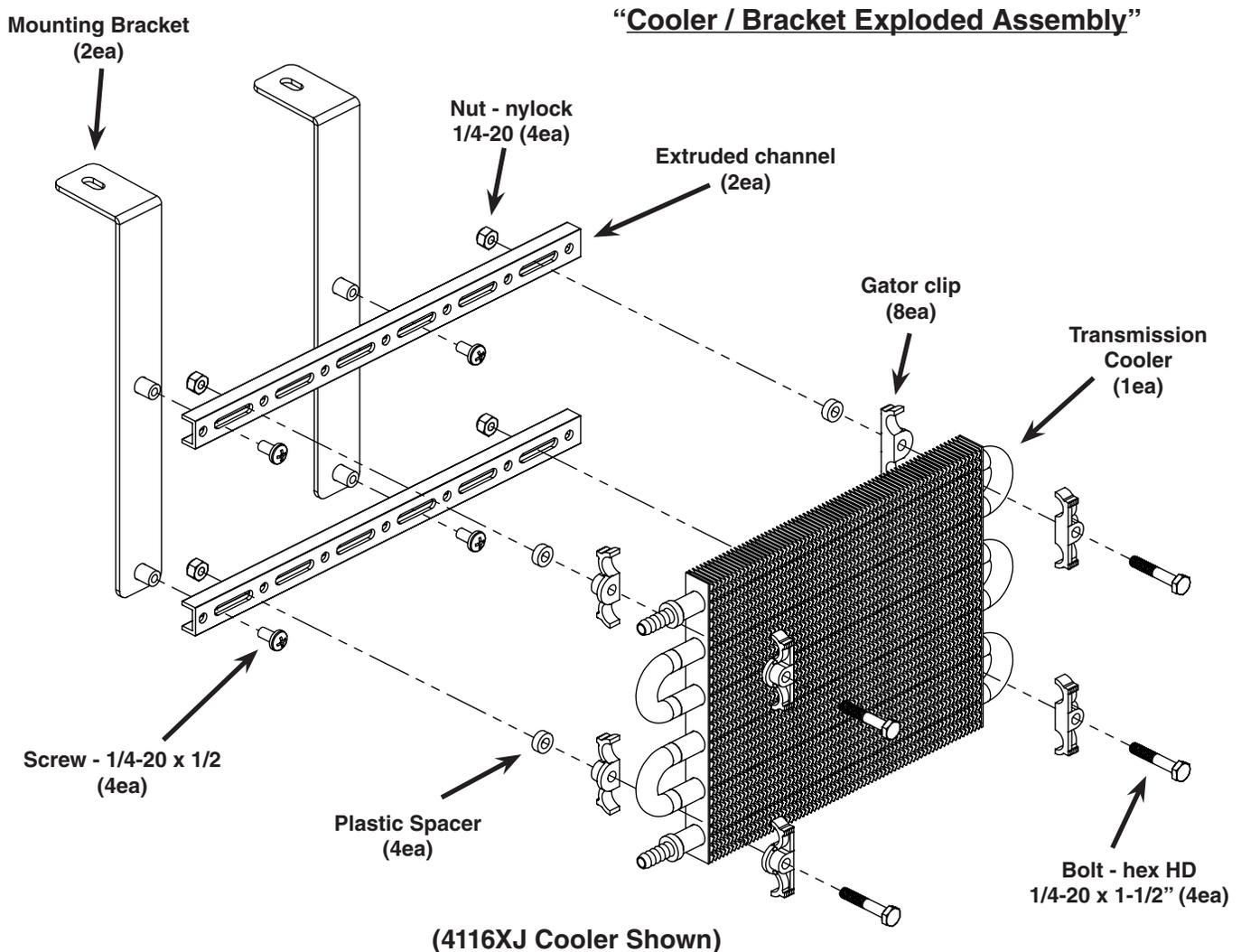
The installation of the cooler requires that you sandwich the cooler's bent mounting brackets between the long radiator support and long "L-bracket". Remove the Torx bolts securing center hood latch bar on top of radiator support. Remove the Torx bolts and 10MM nuts securing the long "L-bracket" along top of radiator support (**see Detail A-1**). Remove 10 MM nuts 2ea. releasing rubber mounts below radiator support along top of radiator (**see Detail A-2**). Along top of radiator remove 10 MM bolts securing radiator support at right and left sides of support (**see Detail A-3**). Lift and remove the long radiator support.



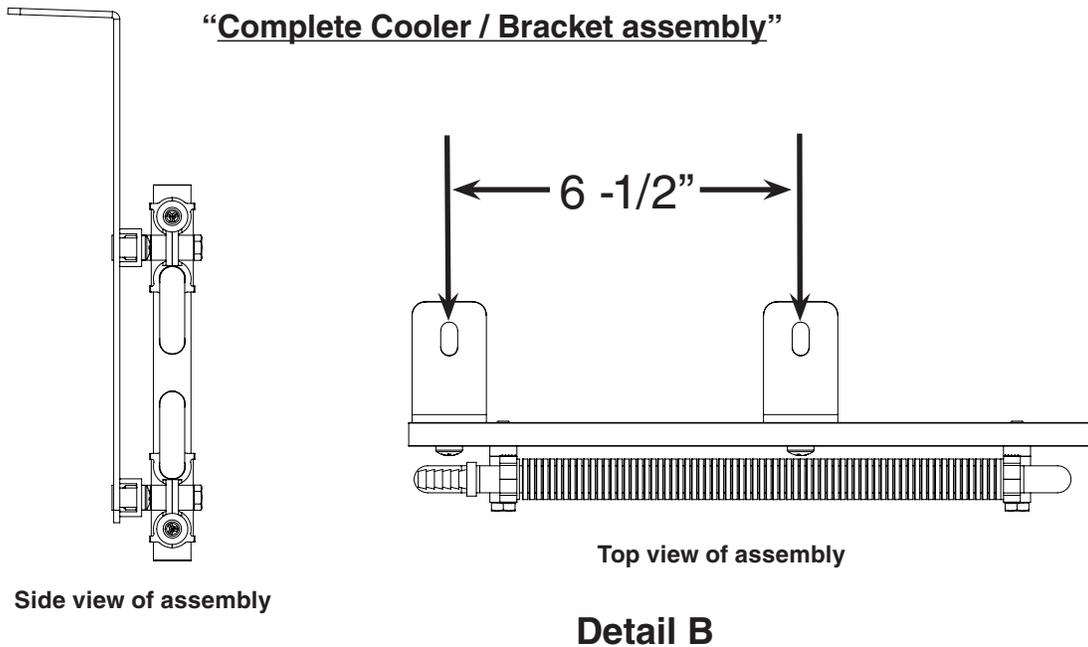
**Detail A**

6. Assemble the cooler / bracket assembly:

Per the "exploded assembly view" shown below. It is suggested that assembly of the cooler / brackets be made using the hole and slot locations shown. Vehicle equipment variations may require shifting placement of the cooler along channels.



Note: The dimension between center holes on the formed brackets needs to be at 6-1/2". (see Detail B)



7. Positioning of the cooler assembly:

Hold the cooler assembly roughly in the position shown (see Detail C). Holding the bent bracket section of the cooler slightly higher than its final mounting height allows room for reinstallation of the long radiator support under it. Position the long radiator support back into its original position and then lower the cooler assembly brackets onto it (see Detail D). Align the slots of the cooler brackets with the threaded clips (see Detail E)

Cooler brackets held up out of the way

Long radiator support bracket



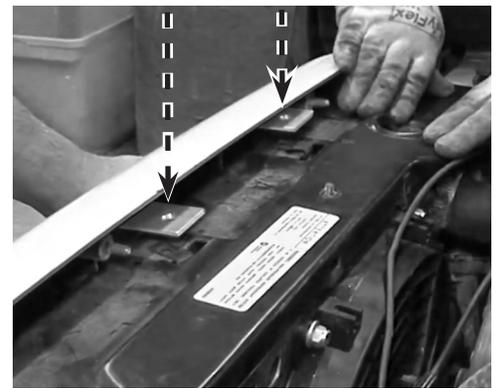
**Detail C**

Positioning radiator support bracket back into place



**Detail D**

Bracket slots aligned with threaded clips



**Detail E**

8. Reassembling brackets at top of radiator:

With radiator support and cooler assembly in position, place the long “L-bracket” back into position and secure with previously removed Torx bolts and 10 MM nuts. Final securing of cooler assembly brackets takes place when sandwiched between “L-bracket” and radiator support with Torx bolts. Reattach the center hood latch bar with previously removed Torx bolts to top center of radiator support.

## Installation instructions continued from previous page

### 9. Connect cooler lines:

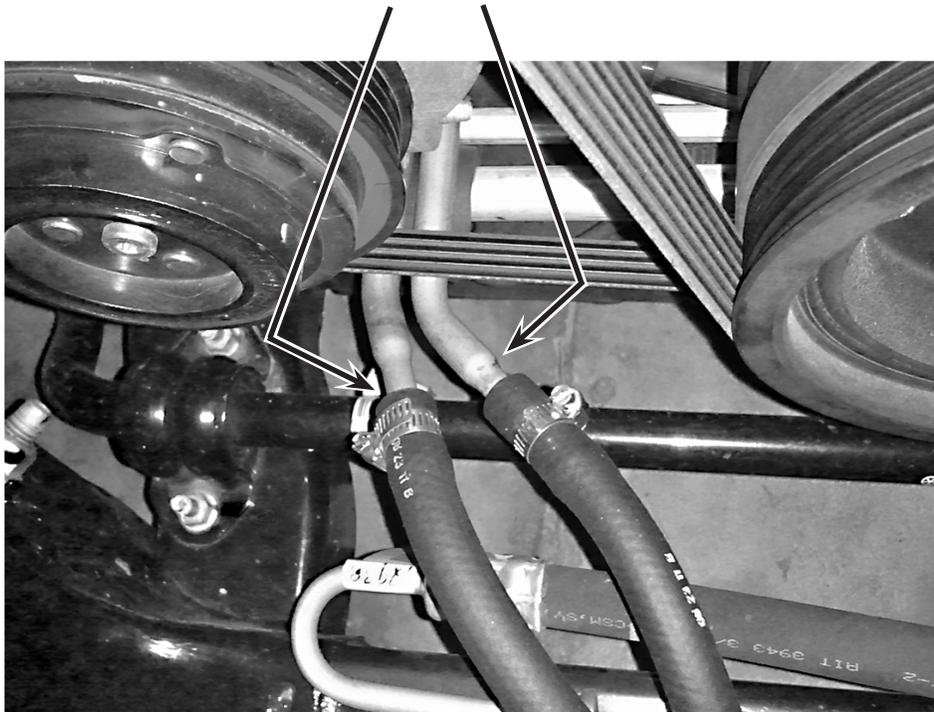
**For 4116XJ:** Use the hoses and hose clamps provided in the kit to connect to barbed fittings of the new cooler.

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

Cut and flare the transmission cooler lines where the rubber hoses are to be attached. Note: "Double flaring" of cooler line is suggested because the metal tubing edge may cut into the rubber hose if the flare is sharp. 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: BE SURE that all moving parts of the engine, cooling fans and lines / hoses are clear of each other before proceeding!**

Trim and attach hoses to transmission cooling lines.



**Detail F**

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

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

To Register Cooler Kit #4116XJ:

Visit our website @ [www.flex-a-lite.com/warranty-registration](http://www.flex-a-lite.com/warranty-registration)

#### The Flex-a-lite Limited Warranty

Flex-a-lite Consolidated, 7009-45th St. Ct. E. Fife, WA 98424, Telephone No. 253-922-2700, warrants to the original purchasing user, that all Flex-a-lite products to be free of defects in material and workmanship for a period of 365 days (**1 year**) from date of purchase. Flex-a-lite products failing within 365 days (**1 year**) from date of purchase may be returned to the factory through the point of purchase, transportation charges prepaid. If, on inspection, cause of failure is determined to be defective material or workmanship and not by misuse, accidental or improper installation, Flex-a-lite will replace the product free of charge, transportation prepaid. **Flex-a-lite will not be liable for incidental, progressive or consequential damages.** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from state to state. The Flex-a-lite warranty is in compliance with the Magnuson-Moss Warranty Act of 1975.