



Core Components

Power Steering Cooler Kit

P/N: CC-RX7-FD3S-PSC



Core Components Power Steering Cooler Kit RX7 FD3S

Thank you for purchasing this Core Components product for your car! Installation of this product should only be performed by persons experienced with installation of aftermarket performance parts and proper operation of high performance vehicles. **If vehicle needs to be raised off the ground for installation, the installer must use proper jacks, jack-stands and/or a professional vehicle hoist for safety of the installer and to protect property. If the vehicle is lifted improperly, serious injury or death may occur!** Please read through all instructions before performing any portion of this installation. **Always use appropriate personal protection equipment such as gloves, eye, and hearing protection for installation of this product.** If you have any questions, please contact our tech department prior to starting installation. email tech@ccfablab.com

Modifications to any vehicle can change the handling and performance. As with any vehicle extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive a vehicle safely may result in serious injury or death. Do not drive a vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state or country. Consult the owner's manual, service manual, instructions accompanying these products, and local laws before purchasing and installing these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

SPECIAL NOTES:

- Installation of this part should be performed by a qualified technician
- Read through entire installation before starting this project.
- Consult your tuner or qualified technician before installing this part on your car to better determine how it should be setup on your vehicle.

WARNING: This product can expose you to chemicals including Lead which is known to the State of California to cause cancer birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

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Tools Required:

- Pipe/Tubing Cutter (available at local hardware store)
- Pinch/Pincer Clamp Tool / OETIKER clamp (available at local hardware or autoparts store)
- Bench Vice
- 28mm Combination Wrench
- -6 AN Wrench
- ¼ or 3/8" drive ratchet
- ¼ or 3/8" drive short extension
- 4mm Allen head socket

Optional:

- 4mm long ball end Allen socket
- Hacksaw, Cutoff wheel, Air Saw
- Tubing flare

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Included Parts:

- A) (1) High Quality 5052 Aluminum Bracket
- B) (1) Extruded Aluminum Heat Exchanger
- C) (1) Premium 3/8" PS return hose
- D) (2) -6 to npt male fittings**
- E) (5) 17mm Stainless Steel Pinch Clamps*
- F) (1) 22mm Stainless Steel Pinch Clamp*
- G) (1) 3/8" 90deg PS hose elbow
- H) (1) -6AN Female to -6AN Male 90 Degree Swivel Adapter Fitting
- I) (1) 3/8" brass barb 90deg elbow
- J) (2) -6AN Push-On 90 Degree Hose End Elbow
- K) (2) M6 20mm Allen Head Socket bolts
- L) (2) M6 12MM Hex Bolts
- M) (4) M6 Hex nuts

**Important!!

Teflon tape only to be used on the 3/4" NPT (pipe thread) portion/side of the male to male fitting.
AN Flare fittings never use Teflon tape!



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*Additional Notes:

Slide hose clamps over the end of the hose **BEFORE** pushing the hose onto the push-on fitting. Leave an 1/8-3/16" gap from the fitting guard to the clamp so you can fit your crimp tool.



Chassis Prep: (See Fig 1 & 2 for reference)

1. Drain Power Steering Fluid or clamp off return hose near reservoir.
2. Disconnect & Remove the factory power steering loop.
3. Cut the steel return tube coming from the steering rack just before the downward bend as shown (see Fig 1). This is ~5 inches from the 90 degree bend coming off the rack. The easiest way to cut the tube is to bend it away from the rack and use a small pipe/tubing cutter available at any local hardware store. Alternatively you may use an air saw/cut-off wheel or the like, however be sure to flush & clean the pipe thoroughly if using any of these methods. The steel hardlines may be bent and manipulated to accommodate a straight run from the hose coming from the new heat exchanger. (see Fig 3 for reference)
Optional: For additional security you may use a brake line / tubing flare to put a mild flare at the end of the pipe you just cut to provide an additional retention shoulder for the hose.
4. Connect the reservoir hose to the brass elbow (I) & clamp with pinch clamp (F) - see Fig 3 & 4.
5. Slide the power steering return hose (C) onto the factory tube and clamp with 2 pinch clamps as shown in Fig 5.

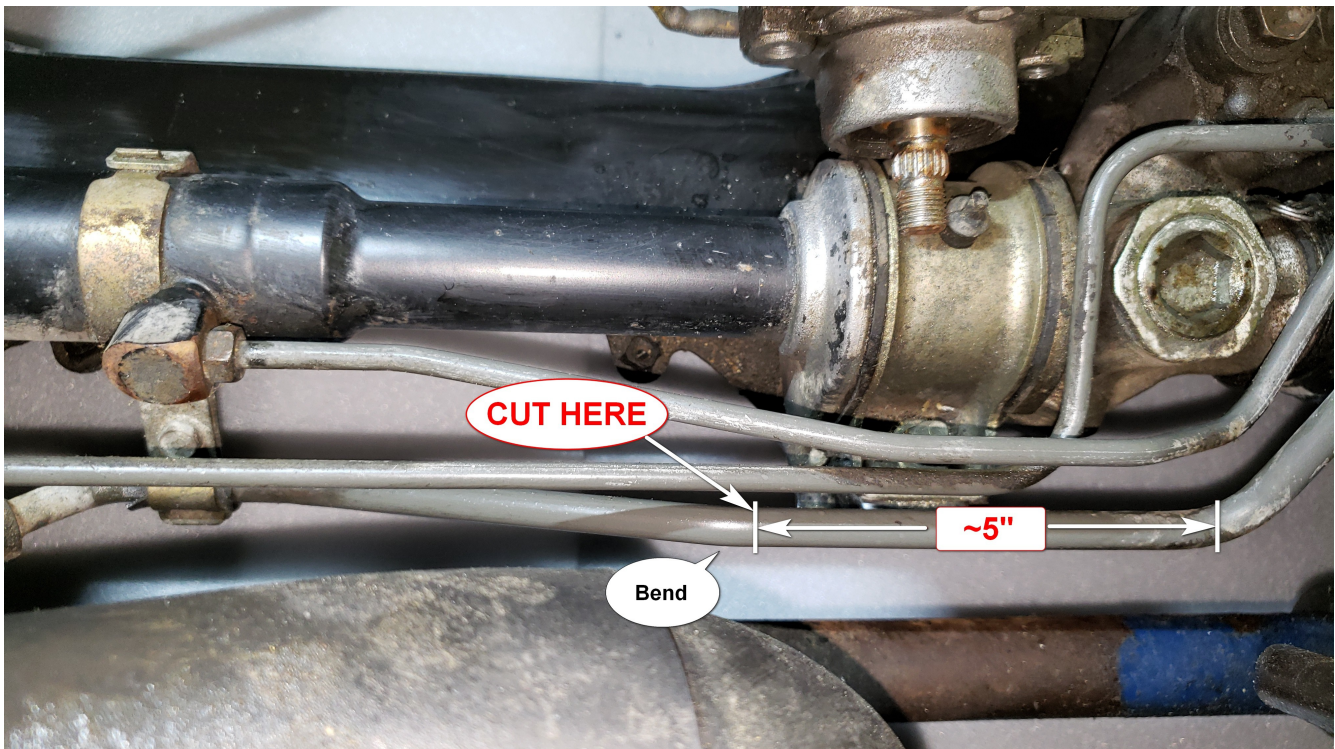


Fig 1: Cut Tubing Coming From Power Steering Rack As Shown – Right Before The Downward Bend

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Fig 2: Remove Power Steering Hose From Factory PS Loop - To Be Connected To Brass Elbow (I)

Cooler Assembly:

1. Take the 2 male -6 to NPT fittings (D) and wrap sufficient teflon tape on the male NPT portion of the fitting only (**AN flare fittings DO NOT use teflon tape!**)
2. Take heat exchanger (B) and hand thread the male 3/4" NPT teflon wrapped fittings (D) into the opposing ends of the heat exchanger and tighten till they are quite snug. Now completely tighten the NPT fittings. To make it easier, you may wish to place one side in a bench vice while tightening the other side. Adequately snug fitting measure ~5.75" as show in figure below.
3. Install the -6 AN fittings as shown in the second image below, Be sure to use a small amount of AN assembly lube or similar oil lubricant to avoid galling the threads when tightening.
4. Your complete assembly should look like figure
5. Slide the heads of the 2 M6 hex bolts (L) into the slot on the heat exchanger (B).
6. Install the heat exchanger (B) to the mounting bracket (A) by lining up the 2 M6 hex bolts with the 2 matching spaced holes on the mounting bracket. Secure the bolts with 2 m6 hex nuts (M) using a 10mm wrench.
7. Using the 2 m6 socket cap bolts (K) install the bracket / heat exchanger assembly (Fig 6). The assembly mounts at the front on the engine just below the main eccentric shaft pulley. The 2 outer most holes on bracket (A) line up with the undertray holes in the subframe. Install these 2 bolts from the top down passing through the bracket and threading into the welded nuts on the subframe (see Fig 7)
8. **Fill your power steering reservoir and check for leaks around the fittings.**



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Fig 3: Power Steering Hose Connected To Reservoir



Fig 4 - factory reservoir hose to brass elbow



Fig 5 - 3/8" hose from new heat exchanger to factory hardline double pinch clamps

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Fig 6 – Fully Assembled Power Steering Cooler Kit

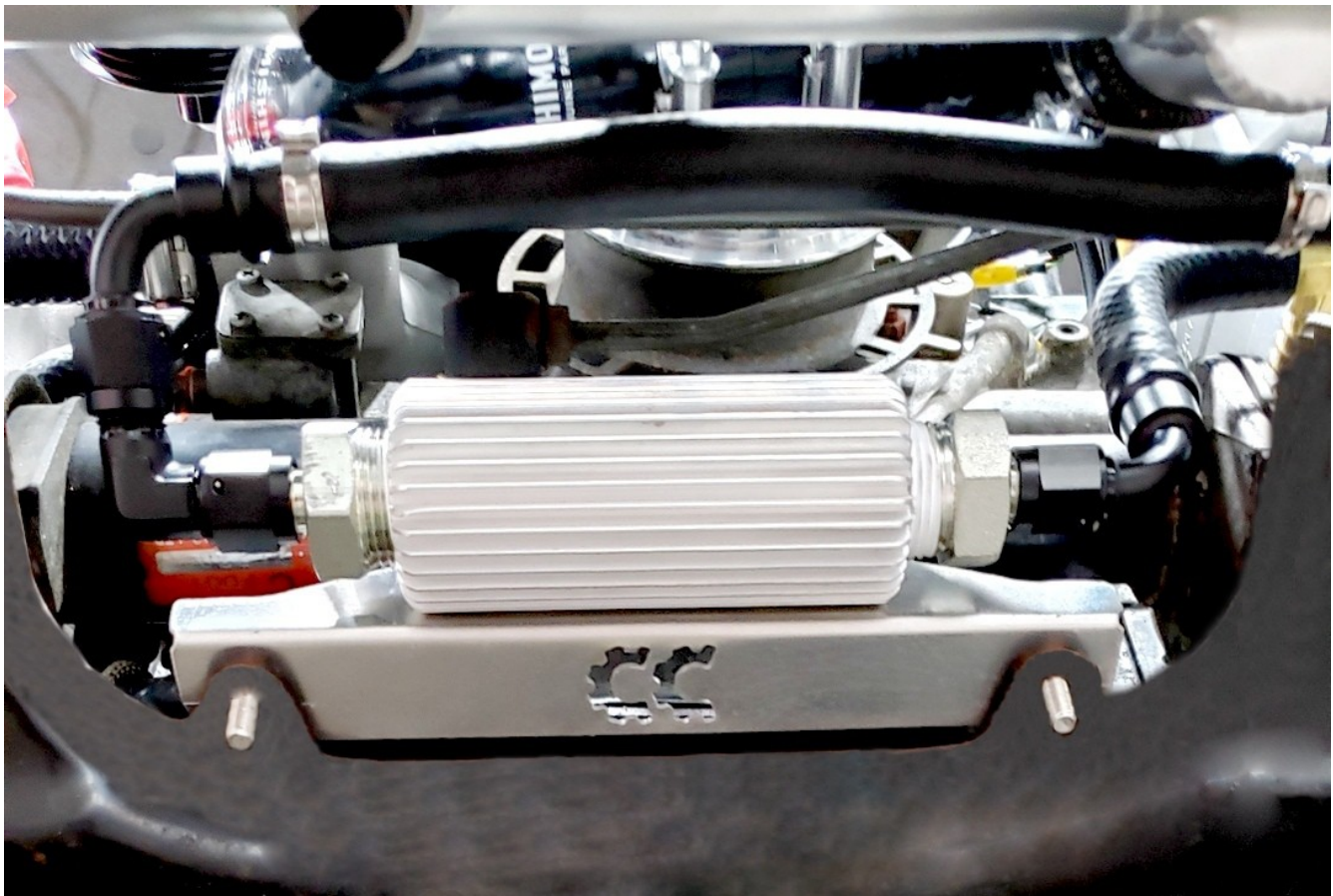


Fig 7 – Power Steering Cooler Mounted to Subframe

Congratulations your Power Steering Cooler Kit installation is complete!

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