



# INSTALLATION INSTRUCTIONS

## FUEL VENT CHARCOAL CANISTER

The logo for Radium Engineering. It features the word "radium" in a bold, black, sans-serif font. The letter "r" is partially cut off on the left by a vertical line. To the left of this line is a green square containing the lowercase letters "ra". Below "radium" is the word "ENGINEERING" in a smaller, black, all-caps, sans-serif font.

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**Support:** [info@radiumauto.com](mailto:info@radiumauto.com)

## CAUTION

Only a qualified technician following applicable safety procedures should perform the installation of this product. One must have knowledge in repair and modification of fuel systems and general vehicle modifications to install this product.

**Gasoline and other fuels are flammable and can be explosive.**

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No sparks, open flames, smoking or other ignition sources are to be present. Draining and removal of all fuel from the fuel system is recommended.  
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## WARNING

The fuel system is under pressure! Do not loosen any connections until relieving the fuel system pressure. Consult a service manual for instructions on relieving fuel pressure safely. This product is designed for off-highway and racing use only. Fuel system components may not be legal for sale or use on emissions controlled motor vehicles. Consult local, state, and federal laws.

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	10mm Socket Wrench 10mm Wrench	The charcoal canister will be mounted inline with the existing vent from the fuel tank (or cell). Using the M6x1mm hardware, find an ideal location above the tank to avoid fuel infiltration. NOTE: Excessive fuel will diminish the activated carbon efficiency.  Mounting Hole Spacing: 5" (width) x 4.7-5.7" (slotted height)	
2	Oil Lubrication	When installing the adapters to the charcoal canister ports, be sure to lubricate the O-rings on the fittings first.  NOTE: There is no specific "inlet" or "outlet". The canister can flow in either direction.	
3		The vent line (from the tank) will need to be connected to the charcoal canister "inlet". An air filter can be installed directly to the charcoal canister "outlet" (as shown) or from a hose off the charcoal canister "outlet".	
4	Adjustable Wrench	<b>20-1828-00</b> <b>FUEL VENT CHARCOAL CANISTER, UNIVERSAL</b>  This kit simply converts the end ports from 16AN ORB female to a more common 10AN ORB female.	

5	Adjustable Wrench	<b>20-1828-08</b> <b>FUEL VENT CHARCOAL CANISTER, FOR 1/2IN HOSE</b>	
	Pliers		
		This kit can convert the inlet and outlet port to 1/2" barbs. Alternatively, the outlet barb can be changed to a 3/4" barb making it ideal for a Radium Engineering 18-0042 Air Filter (sold separately).	
6	Adjustable Wrench	<b>20-1828-12</b> <b>FUEL VENT CHARCOAL CANISTER, FOR 3/4IN HOSE</b>	
	Pliers		
		This kit converts the inlet and outlet port to 3/4" barbs. This makes the outlet ideal for a Radium Engineering 18-0042 Air Filter (sold separately).	
7	3/16" Allen Wrench	If the optional Radium 20-0024 Petcock Drain Kit was purchased, remove one of the two 4AN ORB plugs. The ideal port will depend on the mounting orientation of the canister. Install the included barbed adapter.	
	Oil Lubrication		
	14mm Wrench		
	Hose Cutter		
	Pliers	Locate the petcock valve in an accessible location. Cut the hoses to length and secure them using the provided spring clamps.	
8	2.5mm Allen Wrench	For servicing, purchase 20-1828-SK.	
		Flip the the charcoal canister over and remove the screws. Dispose the current carbon media. Replace the screen (shown right). Add as much carbon (shown left) to the canister that still permits the mounting plate to be reinstalled.	