



INSTALLATION INSTRUCTIONS REMOTE MOUNT FUEL FILLERS

Document: 19-0208
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This document is for: 20-0147, 20-0360, 20-0504-V, 20-0505-V, 20-0527, 20-0547, 20-0548-V, 20-0549-V, 20-1004-V, 20-1005-V, 20-1027, 20-1047, 20-1104-V, 20-1105-V, 20-1204-V, 20-1205-V.

NOTES:
1. The Fuel Cell Surge Tank (FCST) fill flange uses a 6-bolt, 2.18" (55mm) bolt circle with 1/4"-28 threads.
2. The Fuel Cell Surge Tank (FCST-X) fill flange uses a 3-bolt, 2.34" (59.5mm) bolt circle with M5x.8mm threads.
2. See Radium P/N: 20-0597 for adapting 1.5" ID fuel fill tubing and P/N: 20-0297 for adapting 2.25" ID fuel fill tubing.




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.
Only install in a well-ventilated location to minimize buildup of fuel vapors.
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. Proper eye and personal protection is required at all times during installation.

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	5/32" Allen Wrench	<p>20-0147 Remote Mount Fill Neck, Straight, 2.25in Barb The flapper valve CAN BE installed from the top side of the FCST. First, hold the gasket against the fill neck flange and insert the long bolt through the center hole. From underneath, insert the small gasket then washer onto the long bolt. Screw the included lock nut just past the first thread. Do NOT fully tighten.</p> <p>Place the loose assembly down onto the FCST 6-bolt flange. Use a long blunt object to push the small gasket down into the fuel cell. Tighten the 6 bolts. NOTE: only older 20-014X-XX FCSTs require sealing washers.</p> <p>NOTE: Radium Fill Cap P/Ns: 20-0148 or 20-0148-V will screw onto this neck, as shown.</p>	
	10mm Socket		
	5mm Allen Wrench		
2	5/32" Allen Wrench	<p>20-0547 and 20-0527 Remote Mount Fill Neck, 1.5in Barb The flapper valve CAN BE installed from the top side of the FCST. First, hold the large gasket against the fill neck flange and insert the long bolt through the center hole. From underneath, insert the small gasket then washer onto the long bolt. Screw the included lock nut just past the first thread. Do NOT fully tighten. Place the loose assembly down onto the FCST 6-bolt flange. Push the small gasket down into the fuel cell. Tighten the 6 perimeter bolts. NOTE: only older 20-014X-XX FCSTs require sealing washers.</p> <p>20-1027 and 20-1047 FCST-X, Remote Mount Fill Neck, 1.5in Barb Place the O-ring than the fill neck down and tighten down the 3 bolts. NOTE: The FCST-X has an internal roll-over flapper valve and does not require sealing washers.</p> <p>20-0547 and 20-1047 Remote Mount Fill Neck, 24AN, 1.5in Barb Tighten the -24AN hose end to 45ft-lbs using the non-marring aluminum wrench.</p>	
	10mm Socket		
	5mm Allen Wrench		
	1-7/8" Wrench		
	3mm Allen Wrench		
3	3mm Allen Wrench	<p>20-0505-V, 20-1005-V, 20-1105-V and 20-1205-V Remote Mount Fuel Filler, Vented Find a relatively flat mounting surface higher than the fuel tank fill point. A large 3.033" (77mm) hole will need to be fabricated. Place the gasket down, make 5 indicators, and then drill 1/4" (6mm) holes for the mounting bolts.</p> <p>Slide the gasket on the housing and place onto the surface. Orientate the nut ring on the backside for optimal fitment. Push the M5x0.8mm bolts through the housing, gasket, and drilled holes. Tighten the bolts to the nut ring.</p> <p>20-0548-V Fuel Cap, Remote Mount, Vented Apply oil lubrication to the cap's O-ring and spin clockwise to tighten.</p>	
	Oil Lubrication		
	Cutter		
	Marker		
4	3mm Allen Wrench	<p>20-0504-V, 20-1004-V, 20-1104-V, and 20-1204-V Dry Break, Remote Mount, Vented Find a relatively flat mounting surface higher than the fuel tank fill point. A large 3.033" (77mm) hole will need to be fabricated. Place the gasket down, make 5 indicators, and then drill 1/4" (6mm) holes for the mounting bolts.</p> <p>Slide the gasket on the housing and place onto the surface. Orientate the nut ring on the backside for optimal fitment. Push the M5x0.8mm bolts through the housing, gasket, and drilled holes. Tighten the bolts to the nut ring.</p> <p>20-0549-V Dry Break, 1.5in, Female, Vented Apply oil lubrication to the cap's O-ring and spin clockwise to tighten.</p>	
	Oil Lubrication		
	Cutter		
	Marker		

5	5/32" Allen Wrench	<p>20-0360 and 20-1060 Fill Neck Block-Off Kit</p> <p>Place the gasket then the block-off plate down and tighten the bolts to 32in-lbs. NOTE: Only older 20-014X-XX FCSTs require sealing washers (shown).</p>	
	Scissors	<p>20-1005-V, 20-1105-V and 20-1205-V Remote Mount Fuel Filler, Vented</p> <p>There is an optional tether provided.</p> <p>If installing, first insert the tether cord down through the center hole.</p> <p>Tie the end into a knot (as shown) and cut the tail off.</p>	
	Scissors	<p>20-1005-V, 20-1105-V and 20-1205-V Remote Mount Fuel Filler, Vented</p>	
	Crimper	Radium Engineering suggests the tether cord should be 4" (102mm) long.	
	Heat Gun	<p>Slide the provided shrink tubing then the ring terminal over the tether cord.</p> <p>As shown, tie the cord into a knot.</p> <p>Crimp the ring terminal and apply heat to the shrink tubing.</p>	
8	3mm Allen Wrench	<p>20-1005-V, 20-1105-V and 20-1205-V Remote Mount Fuel Filler, Vented</p> <p>Install the ring terminal to the lowest mounted perimeter screw.</p>	