

INSTALLATION INSTRUCTIONS





DUAL CATCH CAN KIT







SHELBY GT500, S197







Document: 19-0166







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The following instructions outline the installation of the Radium Dual Catch Can Kit (P/N: 20-0329) on the Shelby GT500 (S197).

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1		Remove the crankcase vent hose that connects from the intake tube to the cam cover. Move the small gray tab to unlock, then pull off the fitting.	
2	Heat gun	Use a heat gun to loosen the crankcase plastic tube where it connects to the end fitting. Do not over heat and melt the plastic. Heat just enough until the end fitting can be pulled out. Repeat this process at the opposite end of the tube until both end fittings are removed.	
3		Remove the PCV hose from the opposite side of the engine in the same manner as the crankcase vent hose.	
4	Heat gun	Heat and remove the end fittings.	

5	1" wrench	Prepare both catch cans by installing the hose-barb style fittings into the side ports, and the -AN style fitting into the top ports.		
6	4mm Allen wrench	Mount the catch can bracket in the engine bay near the brake master cylinder.		
	10mm wrench			
		Install the two M6 flat-head screws and flange nuts, as shown. Make sure the "foot" of the bracket is lined up with the hole in the fender well. Tighten the screws.		
7	5mm Allen wrench	Install the M8 screw into the lower "foot" of the catch can bracket as shown.		
	Jack			Use a floor jack just behind the left front wheel to raise up the corner of the car about 2". Verify an approved jacking point is used. With car slightly raised, it is possible to reach into the fender well and install the M8 nut onto the screw. Finger tighten the nut. Use an Allen wrench to tighten the screw. In most cases, the nut will not want to turn and the wrench is not needed. Lower car and remove jack after this step is complete.
8	3mm Allen wrench	Install both catch cans into the bracket as shown. Install all four screws and tighten.		
				The catch can closest to the firewall will be used for the PCV hose, and the other will be used for the crankcase vent hose.
9	Hose cutter	Find the 5/8" ID hose included in the kit and cut a piece to ~31". Install the 90 degree end fitting from the crankcase hose into the cut piece of hose. Use the included spring hose clamp to secure the end fitting.		
	Pliers			
10		Route the 31" hose under the intake tube as shown.		

11		Secure the 90 degree fitting to the valve cover port as shown.	
12	1" Wrench	Install the 90 degree barbed push-lock hose end into the opposite end of the hose. Some lubrication might be necessary. Screw the hose end onto the top fitting of the forward-most catch can as shown. Point the hose end in a direction for best routing, then tighten the hose end using a wrench.	
13	Hose cutter Pliers	Cut a piece of the included 5/8" ID hose to ~33". Install the 45 degree end fitting from the crankcase hose into the end. Secure with a hose clamp. Attach the hose to the fitting on the intake tube.	
14		Route the hose under the intake tube in a similar path as the previous hose.	
15	Pliers	Route the hose to the side port of the forward-most catch can as shown. Secure in place with one of the included spring hose clamps.	
16		Route one of the hoses over the top of the metal tab on the strut tower and one under the tab. Next, use a zip tie to secure the hoses together, as shown.	

17		Double check that all connections are tight.	
		Installation of the crankcase catch can is complete.	
18	Hose cutter	Cut a piece of the 5/8" hose to ~58" and install the 90 degree hose end fitting from the PCV hose. Secure with a hose clamp.	
	Pliers		
		Route the hose behind the engine, below the supercharger and above the brake master cylinder, over to the PCV catch can.	
19		After the hose is routed, attach it to the valve cover PCV port.	
20	1" Wrench	At the opposite end of the hose, install the 90 degree push-lock fitting. Some lubrication may be necessary.	
		Attach the hose to the fitting on the catch can top port.	
21	Hose cutter	Cut a ~50" length of the 5/8" ID hose and install the last straight hose end fitting into one end. Secure with a spring hose clamp.	
	Pliers		
		Route the hose behind the engine and under the supercharger, over to the PCV catch can side port.	
		When routing is complete, attach the hose to the intake manifold fitting.	
22	Pliers	Secure the hose to the PCV catch can side fitting using one of the included spring hose clamps.	

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Use the included zip ties to secure the hoses in place.

Check that all connections are tight.

Installation is complete.

