



INSTALLATION INSTRUCTIONS





COOLANT TANK KIT

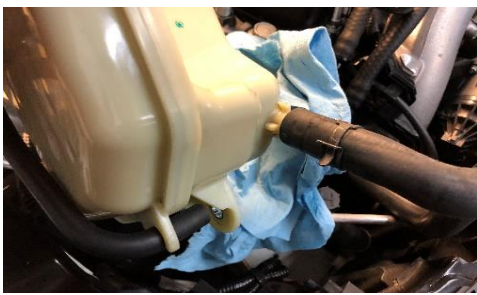




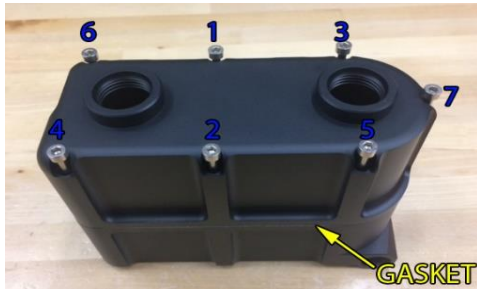
2017+ Honda Civic Type-R




Document: 19-0197
Support: info@radiumauto.com






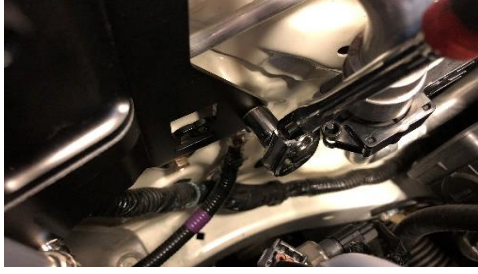
NOTES:




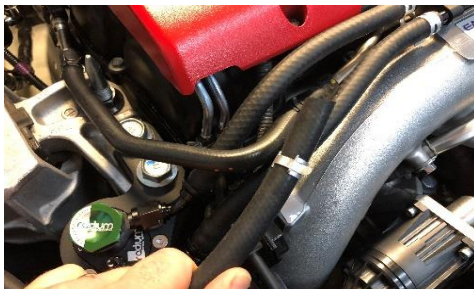


- o Installation to be performed on engines that are completely cooled down.
- o Do NOT perform installation on a hot engine.
- o It is NOT necessary to drain the coolant system before installation.

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	Pliers	Remove the pressure cap from the OEM coolant tank to release any pressure in the system. Once pressure has equalized, reinstall the cap.	
		Release the spring clamp and pull the hose off the small barb on the OEM coolant tank, as shown.	
2		Plug the OEM rubber hose temporarily to keep coolant from leaking.	
		NOTE: As shown, a 1/4" socket extension works well.	
3	10mm socket	Remove the 2 mounting screws that secure the coolant tank to the chassis. Retain these screws as they will be re-used later in the installation.	
4	14mm socket	Remove the engine mount brace shown.	

5	Pliers	Lift up the coolant tank to gain access to the large hose connected to the lower port. Loosen and slide off the spring hose clamp.	
6		Disconnect the hose from the bottom port. Be prepared to catch the small amount of coolant that may leak out. Make sure the tank is being held in a manner that does not allow coolant to drain out of the port.	
7	Bucket	Drain the contents of the coolant tank into a clean bucket.	
8	10mm Socket	Remove the 2 mounting screws holding the inner coolant tank bracket to the strut tower. This bracket will NOT be reused.	
9	10mm Socket	Remove the 2 mounting screws holding the outer coolant tank bracket. This bracket will NOT be reused. One of these screws will be used.	
10	Metric Allen Wrench	Place the included gasket between the 2 halves of the Radium coolant tank.	
	in-lbs. Torque Wrench	Apply a small amount of anti-seize to the threads of the long screws. Install the long screws into the bottom holes of the coolant tank, as shown.	
	Anti-Seize	Tighten the long screws down snugly in the order shown. Then, tighten them to 38 in-lbs. in the same sequence using a calibrated torque wrench.	
		DO NOT OVERTIGHTEN. NOTE: After the tank is heat cycled, check the gasket for leaks and retorque if needed.	

11	Adjustable wrench	Install the two 90 degree pipe elbows into the threaded holes on the side of the coolant tank. Tighten them down until they become difficult to turn. Orient each elbow as shown and insert the included clear tube into one of the elbows. Push firmly until a "click" is felt.	
12	Adjustable wrench	Bend the tube and install the opposite end into the other elbow fitting. Next, rotate the fittings until the tube is straight.	
13		Insert the included O-ring into the groove on top of the coolant tank.	
14	3mm Allen	Install the coolant tank neck in the orientation shown using the 3 included button-head screws.	
15	3/8" Allen	Install the 10AN plug fitting into the bottom port shown. Install the included banjo fitting and associated green anodized bolt into the other bottom port. Be sure to use the included black nylon washers on each side of the black banjo fitting. For now, the banjo can be finger tight. Install the 8AN PushLok hose end on the banjo fitting as shown. For now, the PushLok hose end can be finger tight.	
16	4mm Allen	Install the coolant tank mounting bracket as shown and fully tighten the provided mounting screws.	

17		Test fit the coolant tank in the engine bay to check orientation of the banjo fitting. A slight adjustment may be required. Line up the mounting bracket holes with the OEM threaded bosses in the stock location.	
		The banjo fitting should be in a parallel path with the electrical harness as shown in the picture.	
18	1-1/8" socket	Once the orientation of the banjo fitting has been determined, tighten the green banjo bolt to the torque specified on the bolt head.	
	Torque Wrench		
	7/8" wrench	At this time, also tighten the hose end using a non-marring aluminum wrench.	
19	Pliers	Attach the large OEM coolant hose to the hose-end on the bottom of the Radium coolant tank. Secure the hose using the original spring clamp, as shown.	
20		Fit the coolant tank in place, aligning all of the mounting points with the corresponding holes in the body.	
21	10mm Socket	Reusing some of the OEM coolant tank mounting screws, secure the Radium coolant tank mounting bracket to the chassis.	
		The first threaded boss is located under the nearby A/C line.	
22	10mm Socket	The other two threaded holes are located on the strut tower.	

23	22mm or 7/8" wrench	Install the swiveling fitting into the small upper port of the coolant tank. Take care not to mar the finish of the fitting or the coolant tank.	
24	Pliers	Find the 5/16" heater hose and spring clamps included in the kit.	
		Secure one end of the hose to the swiveling fitting and using one of the included the spring clamps.	
25	14mm socket	Reinstall the engine mount brace.	
26	Hose cutter	Route the 5/16" hose under the engine mount brace and over towards the coolant pipe at the front of the engine.	
		Determine an appropriate length for the hose and cut.	
27	Pliers	Remove the OEM hose from the coolant pipe. Catch any coolant that may spill out with a rag.	
		Attach the new 5/16" hose to the coolant pipe and secure with the included spring clamp.	
		NOTE: if the OEM coolant hard pipe has been removed for some reason, a longer 5/16" heater hose may be required.	
28	Funnel	Pour the coolant collected in step 7 into the coolant tank using a funnel. Ideally, the coolant tank should be just over halfway full according to the sight tube. Add more coolant if needed.	

29

	<p>Install the OEM pressure cap. Install the provided small diameter hose to the overflow barb near the pressure cap. Route the hose down and out of the engine bay. Keep the hose away from hot areas and any moving components such as the serpentine belt, suspension, etc. If necessary, cut this hose to length.</p> <p>Start the vehicle and let the engine reach operating temperature. Check for leaks and address any that may occur.</p> <p>INSTALLATION COMPLETE</p>

