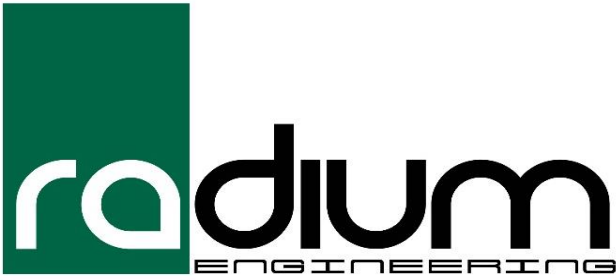


INSTALLATION INSTRUCTIONS

FUEL HANGER / DUAL PUMP ADD-ON

94-01 INTEGRA, 92-00 CIVIC







Document: 19-0286







Support: info@radiumauto.com

COLOR LEGEND FOR EACH STEP
FUEL PUMP HANGER: 20-0790-00 / 20-0792-00 Follow YELLOW areas ONLY
DUAL PUMP ADD-ON: 20-0796-00 / 20-0797-00 Follow YELLOW and GREEN areas

CAUTION
<p>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.</p> <p>Gasoline and other fuels are flammable and can be explosive.</p> <p>Only install in a well-ventilated location to minimize buildup of fuel vapors.</p> <p>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.</p>


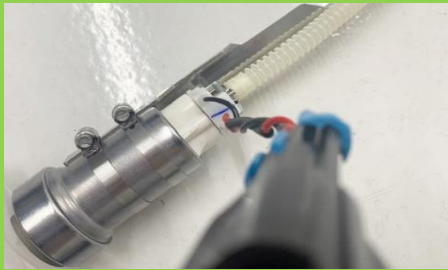

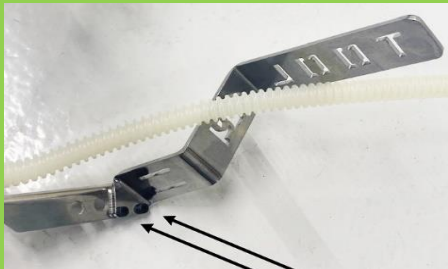
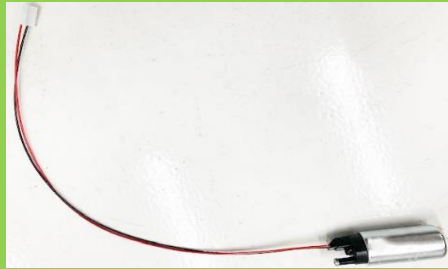

WARNING
<p>The fuel system is under pressure! Do not loosen any connections until relieving the fuel system pressure. Consult a service manual for instructions on relieving fuel pressure safely. This product is designed for off-highway and racing use only. Fuel system components may not be legal for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

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	Jack Stands	Safely lift the vehicle.	
	Fuel Jug	Place a fuel container underneath the fuel tank.	
	17mm Socket Wrench	Remove the plug and drain the fuel.	
	Torque Wrench	Inspect the crush washer. Replace if necessary. Reinstall and torque the drain plug to 36 ftlbs.	
2	Phillips Screwdriver	Pop up and remove the rear bench seat from the vehicle.	
		Located in the center, find the fuel pump access cover under the seat.	
		Remove the screws and flip open the fuel pump access cover.	
3		Pry up on the rubber fuel pump power connector cover to release. Squeeze the electrical plug lock and pull away. NOTE: To gain better access to the fuel tank opening on the 96-00 Civic, dislodge the nearby fuel level connector cover and disconnect.	
		Now the fuel pump access cover can be moved further out of the way.	
4		To relieve fuel pressure, start the car and allow the engine to stall.	







5	10mm Socket Wrench	Remove the negative battery terminal.	
		CAUTION: Disconnecting the battery may cancel fault memories of some control units. Consequently, always cross examine any fault memories prior to disconnecting.	
		Open the gas cap briefly and retighten.	
6	Rag	Squeeze the OEM spring clamp and slide it down the OEM return line. Carefully pull the rubber hose off and catch any spilled fuel.	
	Pliers		
	17mm Socket Wrench	There are 2 different types of OEM feed lines:	
		1. 92-95 Civic/94-95 Integra: Remove the banjo fitting connection. 2. 96-00 Civic/96-01 Integra (shown): While pushing the feed line further onto the metal feed line pipe, squeeze the SAE quick connect locks. While squeezing the locks, carefully pull the hose off.	
7	10mm Socket Wrench	Remove the six M6x1mm perimeter nuts. These flange nuts will NOT be reused.	
		NOTE: For safety, do not use power tools near fuel.	
8	Rag	To remove the OEM fuel pump assembly, pull up and forward. Pivot back and forth to get the fuel pump filter sock out of the tank.	
		Have a rag handy for spills. Place the fuel pump assembly into a bucket and transport to a workbench.	
9	Pick	For the 96-00 Civic/96-01 Integra, pry and remove the plastic SAE quick connect lock, as shown.	
		Reinsert the SAE quick connect lock into the OEM feed line until it "clicks" in place.	
10		Carefully pull the large fuel tank gasket from the assembly. Inspect and replace if necessary.	
		Genuine Honda P/Ns: 17574-SE0-000 or 17574-SV1-L01	
		No other parts from the OEM fuel pump assembly will be reused.	




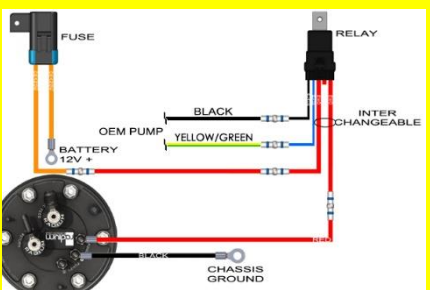


11	1/4" Allen Wrench	20-0796-00 / 20-0797-00 INSTALLATION ONLY	
	Oil Lubrication	<p>All Radium hangers come ready for single pump installation. Follow the areas below in green if installing 2 pumps.</p> <p>For dual fuel pump applications, replace the 6AN ORB port plug in the second fuel pump port for the included SAE quick connect adapter fitting (shown blue). First, lubricate the O-ring and tighten.</p>	
	5/8" or 16mm Wrench		
12	4mm Allen Wrench	20-0796-00 / 20-0797-00 INSTALLATION ONLY	
		<p>For dual fuel pump applications, install the two M5x0.8mm socket head Allen head screws into the bracket in the direction shown. This is NOT required for single pump applications.</p>	
13	3/8" Wrench	20-0796-00 / 20-0797-00 INSTALLATION ONLY	
	3/8" Socket Wrench	<p>For dual fuel pump applications, find the second pump harness provided in the kit. Connect the red wire to the "PUMP2 +" stud. Stack the black wire on top of the shared "-" stud.</p> <p>NOTES:</p> <ol style="list-style-type: none"> As depicted, these wires must be strategically oriented towards one another so they do not interfere with the fuel tank gasket. Carefully bend the ring terminals upward, as shown. Be sure the terminals do not contact one another. When securing the jam nuts, hold the studs on the opposite side to prevent them from turning. 	
14	Oil Lubrication	<p>Lubricate the fuel pump outlet barb and the inner end of the straight (non convoluted) tubing. Gently apply force until it is fully seated.</p> <p>NOTES:</p> <ol style="list-style-type: none"> Fuel pump hose barbs can fracture if not treated with care. Extra tubing is provided in case of damage during assembly. As shown, many 300/320/340LPH pumps require low heat to temporarily soften the tubing. If this is the case, be careful not to over-heat and melt the tubing. 	
	Heat Gun		
15	9/32" Nut Driver	<p>As shown, secure the straight (non convoluted) tubing to the outlet barb using one of the EFI hose clamps.</p> <p>Loosely place another EFI hose clamp over the tubing as shown.</p>	
16	Oil Lubrication	<p>Lubricate the barb under the fuel hat for "PUMP1". Lubricate the other side of the straight (non convoluted) tubing. Gently apply force until the tube is fully seated. NOTE: Do NOT apply heat on this side of the tubing connection. It is NOT required.</p> <p>Do not tighten this EFI hose clamp yet. The fuel pump will first need to be rotated into the proper position.</p>	



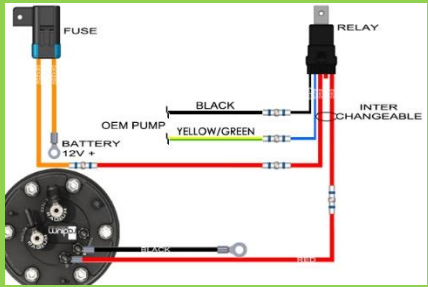

17	Screwdriver	<p>For all of these compatible pumps, the inlet and outlet are not centered with respect to the pump body. Rotate the fuel pump exactly as shown.</p> <p>Wrap 2 of the large worm drive hose clamps through the bracket slots and around the fuel pump and tighten.</p> <p>Tighten the upper EFI hose clamp.</p>	
	9/32" Nut Driver		
18		<p>Install the sock filter onto the fuel pump inlet.</p> <p>NOTE: Large filter socks, which have a rigid internal "skeleton" insert are not recommended. Listed below are recommended filter socks:</p> <ul style="list-style-type: none"> -Radium Engineering, P/N: 14-0143 Filter Sock -The filter sock provided with AEM 50-1200 (shown) 	
19	Oil Lubrication	<p>Plug in the "PUMP1" electrical connector.</p> <p>IF INSTALLING A WALBRO 39/50 DCSS FUEL PUMP</p> <ol style="list-style-type: none"> Lubricate the orange seal (shown) to make the connection. If installing a second pump, this large connector can make installation difficult. Optionally, the connectors can be cut off to permit more space. Strip the insulation and splice the wires together. Use the provided Raychem solder sleeve butt connectors and a heat source to melt and secure the connections. 	
	Wire Strippers		
	Heat Gun		
20		<p>Install the fuel tank gasket to the underside of the fuel hat. For proper orientation, there are rubber 3 indicators. Push these through the fuel hat, as shown.</p>	
21	Oil Lubrication	<p>20-0796-00 / 20-0797-00 INSTALLATION ONLY</p> <p>For dual fuel pump applications, assemble the provided convoluted tubing to the fuel pump and female SAE quick connect.</p> <p>Secure each end using the provided EFI clamps, as shown.</p>	
	9/32" Nut Driver		
22	Screwdriver	<p>20-0796-00 / 20-0797-00 INSTALLATION ONLY</p> <p>For dual fuel pump applications, lay the second fuel pump into the provided stainless steel bracket. Orient the fuel pump within the bracket exactly as shown.</p>	

23		<u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u>	
		For dual fuel pump applications, wrap 2 of the large worm-drive hose clamps around the fuel pump. Note the fuel pump orientation.	
24	Screwdriver	<u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u>	
		For dual fuel pump applications, tighten the worm-drive hose clamps. Note the fuel pump orientation.	
25		<u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u>	
		For dual fuel pump applications, install the sock filter onto the fuel pump inlet.	
		NOTE: Large filter socks, which have a rigid internal “skeleton” insert are not recommended. Listed below are recommended filter socks:	
		-Radium Engineering, P/N: 14-0143 Filter Sock (shown)	
		-The filter sock provided with AEM 50-1200	
26	2.5mm Allen Wrench	<u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u>	
		For dual fuel pump applications, install the tool to the fuel pump bracket using the two M3x.5mm bolts.	
27		<u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u>	
		For dual fuel pump applications, find the extension harness with the white connector and plug it into the second pump. (Walbro GSS342 pump shown).	
		NOTE: If using a Walbro 39/50 DCSS fuel pump, lubricate the orange seal to make the connection.	
28		<u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u>	
		For dual fuel pump applications, the second pump has to be secured to the main assembly while inside the fuel tank.	
		First, loosely preconfigure the assembly outside of the tank, as shown. This will educate the installer on how everything mates together. Be sure to manipulate any hose, wires, etc. that could be pinching, chaffing, etc.	
		Unbolt the assembly back into 2 pieces.	

29		<p><u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u></p> <p>For dual fuel pump applications, insert the second pump assembly halfway into the fuel tank first, as shown.</p>	
30	Oil Lubrication	<p><u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u></p> <p>For dual fuel pump applications, pull the female SAE quick connect hose out of the tank. Lubricate the male quick connect fitting. As shown, fully insert the female SAE quick connect until a "click" is felt.</p>	
31		<p><u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u></p> <p>For dual fuel pump applications, plug the white connectors together, as shown.</p>	
32		<p><u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u></p> <p>For dual fuel pump applications, drop the second pump all the way into the fuel tank. While holding the tool, position the second pump as far towards the outer rear of the vehicle as possible.</p>	
33	8mm Socket Wrench	<p><u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u></p> <p>For dual fuel pump applications, drop the first pump halfway into the fuel tank. Pull the second pump out just enough to lineup up the 2 holes.</p> <p>Install the provided M5x0.8mm flange nuts, as shown. NOTE: Because these nuts are steel, a magnet can retrieve them if accidentally dropped.</p>	
34		<p><u>20-0796-00 / 20-0797-00 INSTALLATION ONLY</u></p> <p>For dual fuel pump applications, be sure the long convoluted tubing does not get hung up onto the internal fuel tank baffle. It should rest inside the OEM baffle.</p> <p>This cutaway picture shows how the assembly would look if it were visible.</p>	

35	2.5mm Allen Wrench	20-0796-00 / 20-0797-00 INSTALLATION ONLY		
		<p>For dual fuel pump applications, unscrew the 2 tool bolts and remove the tool from the assembly, as shown. NOTE: Because these small bolts are steel, a magnet can retrieve them if accidentally dropped.</p>		
36		Drop the assembly into the fuel tank.		
		As shown, lineup the 6 holes with the fuel tank studs.		
37	10mm Socket Wrench	Torque the provided M6x1.0mm flange nuts to 48 inlbs.		
	Torque Wrench			
38	11/16" Wrench	94-95 Integra and 92-95 Civic Only		
		For the return port, the product is preinstalled with a barb fitting (shown upper right). This is compatible with the OEM return hose.		
		To install to the OEM feed hose, the preinstalled 6AN male fitting will need to be converted. Install the provided 6AN female to barb fitting (shown bottom left).		
39	Hose Cutter	94-95 Integra and 92-95 Civic Only		
		To install to the OEM feed hose, cut off the banjo fitting, as shown.		
40	Screwdriver	94-95 Integra and 92-95 Civic Only		
	Pliers			
	Oil Lubrication			
				Push the OEM feed hose onto the new feed fitting and secure using the provided EFI clamp. NOTE: Lubricate the barb and hose as this connection will be tight.
				Push the OEM return hose onto the new return fitting and secure using the OEM spring clamp.

41	4mm Allen Wrench	96-01 Integra and 96-00 Civic Only	
		For the return port, the product is preinstalled with a barb fitting (shown upper right). This is compatible with the OEM return hose.	
		To install to the OEM feed hose, the preinstalled 6AN male fitting will need to be removed. Install the provided SAE quick connect fitting (shown center).	
42	Pliers	96-01 Integra and 96-00 Civic Only	
	Oil Lubrication	Push the OEM feed hose onto the new SAE quick connect feed fitting until a "click" is felt. NOTE: Lubricate the male SAE fitting prior to installing.	
		NOTE: If still using the OEM fuel return hose, it will need to be extended to reach the new barb fitting. Adapters are not provided.	
43	4mm Allen Wrench	Aftermarket Fuel Lines	
		If connecting to a -6AN feed line, leave the preassembled feed fitting installed.	
		If connecting to a -6AN return line, replace the return barb fitting with the provided 6AN male fitting, as shown.	
44		WARNING: The OEM fuel pump wiring is designed for <15A. Depending on fuel pressure and the fuel pump type used, the factory Honda wiring will likely be vulnerable.	
		Radium Engineering recommends using an independent relay and fuse with larger gauge (AWG) wire to get the most out of the pump. This wiring diagram depicted is using RADIUM P/N: 17-0031 DIY FUEL PUMP WIRING KIT (not included). Wiring a relay and fuse will not be discussed in this manual.	
45	Cutter	Low Current Single Fuel Pump Applications ONLY	
	Wire Stripper	Cut off the OEM fuel pump connector leaving as much slack as possible. Strip the ends of the wires.	
46	Cutter	Low Current Single Fuel Pump Applications ONLY	
		Find the small heat shrink provided and cut it in half.	
		Slide each small heat shrink tube over each OEM wire, as shown.	

47	Wire Crimper	<p>Low Current Single Fuel Pump Applications ONLY</p> <p>Crimp the included small ring terminals on the pump power and ground wires. Apply heat to the shrink the tubing.</p>	
	Heat Gun		
48		<p>Low Current Single Fuel Pump Applications ONLY</p> <p>Secure the ring terminals to the studs with the included acorn nuts. DO NOT OVERTIGHTEN! If the stud rotates, it could cause a short on the underside of the fuel hat.</p> <p>OEM Fuel Pump (Yellow/Green Wire) ----> Pump1 + terminal OEM Fuel Pump (Black Wire) -----> Pump1 - terminal</p>	
49		<p>20-0796-00 / 20-0797-00 INSTALLATION ONLY</p> <p>For dual pump applications, an independent relay and fuse MUST be used. This diagram may apply unless the second pump will be staged by an adjustable pressure switch (Radium P/N: 20-0236) or an ECU trigger. Neither scenarios are detailed in this instruction manual.</p>	
50	10mm Socket Wrench	<p>Reconnect the battery and turn the key to the ON position.</p> <p>Confirm the new fuel pump(s) prime for a few seconds and check for leaks. If no leaks are found, start the vehicle. The engine may run rough for a few seconds until all the air is bled from the fuel system.</p> <p>Recheck for leaks.</p>	
51		<p>Reinstall the OEM metal cover plate.</p> <p>NOTE: There will be leftover parts from the kit that will not be used in every situation.</p> <p>INSTALLATION COMPLETE</p>	