

# WRX - FUEL RAIL INSTALLATION MANUAL

## TOOLS REQUIRED

M8 socket wrench	Phillips screw driver
M10 socket wrench	Pliers
M12 socket wrench	6mm allen wrench
Flat screw driver	Hack saw

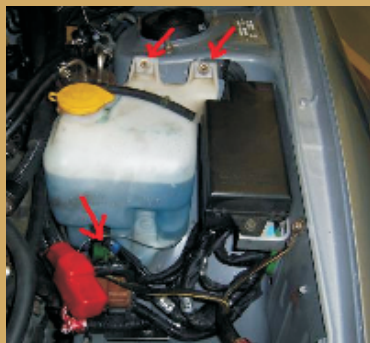
## MATERIALS REQUIRED

8mm fuel hose 10 ft	5/16" hose clamps 8 pcs
4mm vacuum hose 3 ft	Wire ties
6mm vacuum hose 3 ft	
6mm vacuum connector	

<p><b>1</b></p> <p>Remove the air inlet.</p>	<p><b>2</b></p> <p>Remove the air sensor.</p>	<p><b>3</b></p> <p>Remove the air filter box.</p>	<p><b>4</b></p> <p>Remove the battery.</p>
			
<p><b>5</b></p> <p>Remove the intercooler's mounting screws.</p>	<p><b>6</b></p> <p>Remove the right crank vent hose. Remove BOV vacuum hose.</p>	<p><b>7</b></p> <p>Remove the left crank vent hose.</p>	<p><b>8</b></p> <p>Loosen up the hose clamps on the throttle body's adaptor hose.</p>
			
<p><b>9</b></p> <p>Loosen up hose clamp on the turbo output hose.</p>	<p><b>10</b></p> <p>Lift the intercooler slightly.</p>	<p><b>11</b></p> <p>Disconnect BOV return hose.</p>	<p><b>12</b></p> <p>Remove the intercooler by lifting it up and twisting it slightly to the left.</p>
			



**13** Remove windshield washer tank's mounting screws. disconnect supply tube. Remove the tank and place it on the top of right strut tower.



**14** Remove the coolant overflow tank mounting screws.



**15**



**16** Lift tank and disconnect supply hose.



**17**



**18** Lay the coolant overflow tank in the place of the filter box.



**19** Remove throttle control connectors.



**20** Remove the throttle control bracket.



**21** Remove throttle cables.



**22** Remove wire harness clips from the top of the manifold.



**23** Remove throttle body coolant hoses.



**24**



**25** Remove the front vacuum lines.



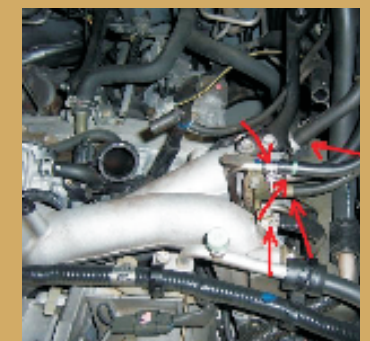
**26** Remove bolt holding intake bracket.



















**27** Remove left engine grounding cable.



**28** Remove right engine ground cable. Disconnect fuel supply and return lines. disconnect the brake booster vacuum line.





29	Disconnect the main engine harness connector.	30	Remove alternator connections.	32	Disconnect gray connector under the throttle body.
					
33	Unplug all of the connectors between alternator and power steering pump.	34	Unplug solenoid connectors and vacuum hoses.	35	Left "Green Bracket" removal (6 screws). Remove top two screws and unscrew the power steering support clamp.
					
37	Remove top back screws.	38	Remove bottom back screw.	39	Remove the side screw #1.
					
41	Remove the left bracket.	42	43	44	
					



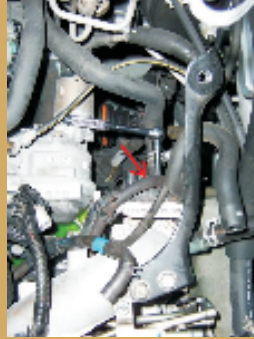
**45** Right "Green Bracket" removal (4 screws).  
Remove top two screws.



**46** Remove side bolt.



**47** Disconnect back bolt.



**48** Pull out the right bracket.



**49**



**50** Unplug TGV connectors.



**51**



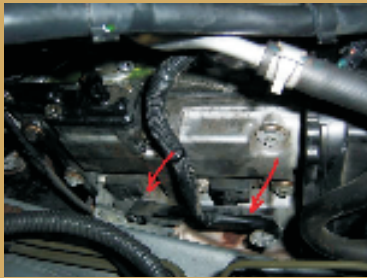
**52**



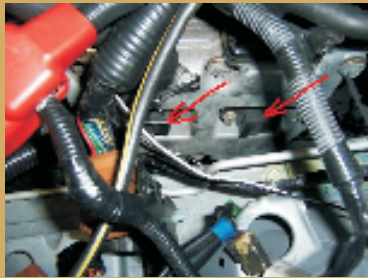
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**54** Unplug fuel injectors and spark plug coil covers.



**55**



**56** Remove intake manifold bolts.



**57**



**58** Remove the intake manifold. Lift it up and to the left.



**59**



**60** Remove the wire harness duct and fuel supply lines.





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Remove fuel rails.



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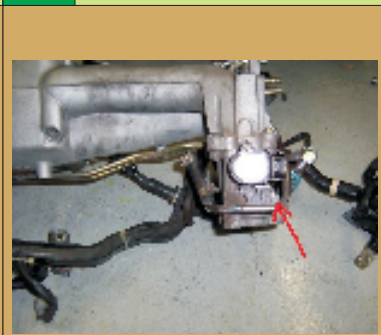


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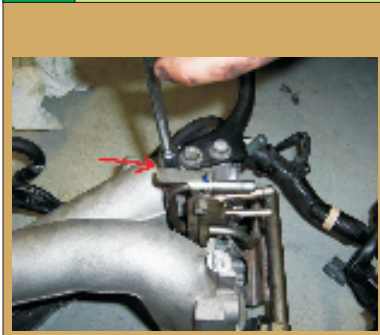
Remove the fuel rail bracket's bolts.



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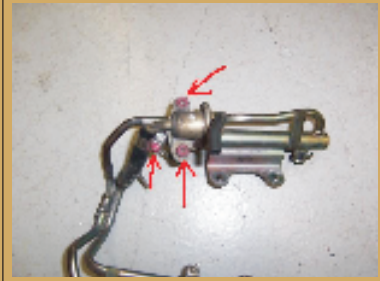


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66

Remove the fuel pressure regulator.



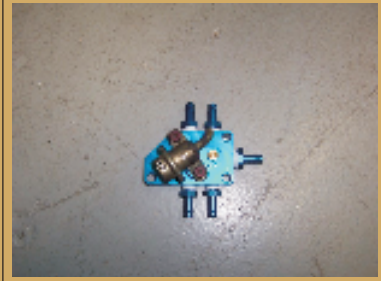
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Shorten the regulator's output by about 1 inch.



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Bolt fuel pressure regulator to the top of the Boomba Distributor Block.



69

Cut the bracket connecting vent pipe to the right "Green bracket" to separate the pipe from the bracket.



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71

Install and bolt down the wire harness.



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Reinstall the intake manifold.

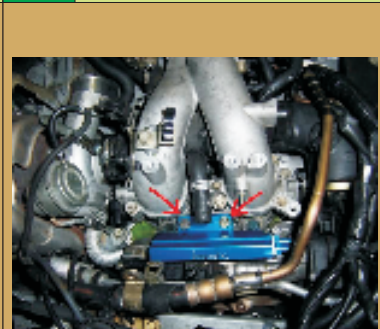


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Install fuel injectors and Boomba Fuel Rails.



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75

Reinstall all throttle body's connectors and hoses.



76

Reinstall the connections to the solenoid valve.





77	Install the coolant overrun tank.	78	Bend the right engine ground connector.	79	Bolt the Boomba Distributor Block. Sandwich the right engine ground connector between the manifold and the Boomba Distributor Block.	80	Connect fuel supply lines to the Boomba Distributor Block.
							
81		82	Install 6 mm vacuum line extension.	83	Install 4 mm vacuum hose between the fuel pressure regulator and the intake manifold.	84	
							
85		86	Install right crank vent hose.	87	Cut 8 mm fuel line hose to two lengths of 36" and two lengths of 15 inches. Connect fuel lines to the Boomba Fuel Rails. Secure fuel lines with hose clamps.	88	
							
89	Connect fuel lines to the Boomba Distributor Block. Don't use hose clamps yet.	90	Install the windshield washer tank. Install the air filter and the air intake. Install the battery (don't connect battery terminals). Adjust fuel line lengths if necessary. Secure fuel lines with hose clamps. Dress up fuel lines using cable ties.	91	Adjust the fuel pressure regulator's vacuum inlet to horizontal position. Connect vacuum hose.	92	Connect battery terminals.
							