	Po	rsche 914 Fi	iel Pump	Trouble	shootin	g				
Sequer										
1	Test: Un-switched Power to the Relay Board (Power Relay)									
	Ignition Key off, Unplug 14 pin connector from relay board and check pin 12 on connector for 12V.									
	No 12V = faulty wire harness to battery. Check wires connected to + terminal at battery									
	Yes 12V = Relay Board is getting un-switched power from the battery									
	(Pin 12 is connected directly to the battery + terminal)									
2	Test: Switched power	[•] to Relay Board								
	Key on: Unplug 14 pin connector and check pin 8 on the connector for 12V.									
	No 12V = Faulty ignition switch, wire harness from 14 pin connector to ignition switch, blown fuse under dash									
	Yes: 12V = Relay Board is getting switched power									
	(Black wire goe	es from 14 pin c	onnector pi	n 8 to fuse	panel unde	er dash)				
3	Test: Trace connection in Relay Board from 14 pin connector to Power Relay									
	Key off, With the 14 pin connector plugged into the Relay Board remove the Power Relay and Test pin 30 for 12V.									
	No 12V = faulty	, ,								
	Yes 12V = Powe	er Relay is gettir	ig power fro	om 14 pin c	onnector					
4	Test: Trace connection in Relay Board from 14 pin connector to Power Relay									
	Key off, With the 14 pin connector plugged into the Relay Board remove the Power Relay and Test pin 30 for 12V.									
	No 12V = faulty	, ,								
	Yes 12V = Power Relay is getting power from 14 pin connector									
	(Inside the relay board the 14 pin connector pin 12 is connected to Power Relay pin 30)									
5	Test: Relay Board gro	und								
	Key off: Remove 14 pin connector and check continuity from pin 10 on the connector to negitave terminal on the									
	No continuity =	= faulty wire har								
	Yes continuity = good harness ground to relay board									
	(Relay Board (pin 10) is grounded to the body next to the relay board)									

6	Test: Trace connnection in Relay Board from 14 pin connector pin 10 (ground) to Power Relay pin 86									
	Key off: Plug 14 pin connector into board and remove Power Relay. Check continuity from pin 86 on Power Relay									
	socket to ground.									
	No continuity = faulty	Relay Board								
	Yes continuity = good	Yes continuity = good Relay Board trace								
7	Test: Power Relay									
	Key off: With 14 pin connector plugged into Relay Board remove Power Relay and wrap small wire lead around									
			elay back into the board.							
	Connect DMM(volts) to	o wire lead and grou	und.							
	Key on: Test for 12V									
	No 12V = faulty Power									
	Yes 12V = Good Power									
	(The relay pin out is la	abeled on bottom o	f relay)							
8	Test: Trace connection in Relay Board from Power Relay to Fuel Injector plug (for ECU)									
	Key on: Test pin I on 4 pin connector (Fuel injector harness aft - left side of relay board) for 12V									
	(on relay board with p	-								
	No 12V = faulty Relay									
	Yes = Power to ECU ha	rness connector on	Relay Board	1						
9	Test: Power to ECU									
	Key off: Remove ECU o									
	Key on: Test pins 16 ar		U connector	r plug						
	No 12V = Faulty ECU w									
	Yes 12V = Power to EC	U								
10	Test: ECU harness ground									
		Key off: Remove ECU harness connector at ECU and test continuity from pin 11 of ECU harness plug to ground								
	Unplug white 4 pin co	-								
	No continuity = faulty		d							
	Continuity = Good har	-			<u> </u>					
	(The ECU wire harness	s is grounded to the	top of the	engine case	2)					

11	Test: ECU harness from ECU to Relay Board									
	Key off: Remove ECU harness connector at ECU and test continuity from pin 19 of ECU harness	plug to pin III on								
	white plug at Relay Board.									
	No continuity = faulty ECU wire harness									
	Continuity = Good harness from ECU to Relay Board									
12	Test: ECU control circuit									
	Key off:Test continuity from Pin III on white 4 pin connector plug at Relay Board to ground (whi	te plug harness								
	un plugged from Relay Board. ECU harness plugged into ECU).									
	Key on: Continuity to ground for 1.5 seconds = good ECU control cuircuit.									
	Key on: No continuity to ground for 1.5 seconds = faulty ECU control cuircuit									
	(The ECU grounds Pin III of the white 4 pin connector on the Relay Board to run the fuel pump	for 1.5 sec. at key on)								
13	Test: Un-switched Power to the relay board (Fuel Pump Relay)									
		Key off, Unplug 14 pin connector from relay board and check pin 14 on connector for 12V.								
	No 12V = faulty wire harness to battery. Check wires connected to + terminal at battery									
	Yes 12V = Relay Board is getting power from the battery									
	(Pin 14 is connected directly to the battery + terminal)									
14	Test: Trace connnection in Relay Board from 14 pin connector pin 14 to fuse									
	Key off: Check voltage at right side fuse terminal on Relay Board.									
	No 12V = faulty Relay Board									
	Yes 12V = Power to fuse									
	(Check the voltage at the other side of the fuse to test the fuse)									
15	Test: Trace connnection in Relay Board from fuse to Fuel Pump Relay pin 30 (relay removed)									
	Key off: Check voltage at Fuel Pump Relay pin 30 on Relay Board.									
	No 12V = faulty Relay Board									
	Yes 12V = power to Fuel Pump Relay pin 30									
16	Test: Power to Fuel Pump Relay pin 85									
	Key on: Check voltage at Fuel Pump Relay pin 85 on Relay Board (relay removed).									
	No 12V = faulty Relay Board									
	Yes 12V = Power to Fuel Pump Relay pin 85									

17	Test: Trace connnection in Relay Board from Fuel Pump Relay pin 86 (relay removed) to 4 pin connector pin III (connector rem								
	Key off: Check continuity from Fuel Pump Relay to 4 pin connector pin III.								
	No continuity = faulty Relay Board								
	Continuity = Good Relay Board trace								
18	Test: Trace connnection in Relay Board from Fuel Pump Relay pin 87 (relay removed) to 14 pin connector pin 13 on Relay Board								
	Key off: Check continuity from Fuel Pump Relay to 4 pin connector pin III.								
	No continuity = faulty Relay Board								
	Continuity = Good Relay Board trace								
	(Fuel Pump Relay pin 87 supplies power thru the 14 pin connector pin 13 to the fuel pump)								
19	Test: Fuel Pump Relay								
	Key off: With 14 pin connector plugged into Relay Board remove the Fuel Pump Relay and wrap a small wire								
	lead around the Fuel Pump Relay pin 87 and plug the relay back into the Relay Board.								
	Connect DMM(volts) to wire lead and grou	ind							
	Key on: Test for 12V for 1.5 seconds								
	No 12V for the first 1.5 sconds = faulty Fuel Pump Relay Relay								
	Yes 12V for the first 1.2 seconds = Good Fuel Pump Relay								
	(When the key is first turned on the relay will be powered for 1.5 sec)								
20	Test: Fuel Pump Ground								
	Key off: Disconnect plug at fuel pump. Te	inuity to ground.							
	No continuity = faulty wire harness or harness ground								
	Continuity = Good ground from harness to	Fuel Pump							
21	Test: Fuel Pump harness from Relay Board								
	Connect DMM(volts) to Fuel Pump ?? Wire	and ground.							
	Key on: Test for 12V for 1.5 seconds								
	No 12V for the first 1.5 sconds = faulty wi		_						
	Yes 12V for the first 1.2 seconds = Power	to Fuel Pump							

22	Test: F	uel Pump									
		Connect F	uel Pump ?	? Wire to b	attery +						
		Connect F	uel Pump ?	? Wire to b	attery -						
		Fuel Pump	o runs = goo	od Fuel Pur	np						
		Fuel Pump	o does not r	un = faulty	/ Fuel Pum)					
							5				
				ē r	40-5		Plug for Alternator	perform	e 1		
				Regulator		411	Ing	of Party of Contract of Contra	of the local division of the local divisiono		
				ě			0 4	4 1 4 44	1.0		















T FRONT OF CAICI



I - WIRE 16+24, SUPPLY VOLTAGE TO ECU II - WIRE 18 - MMENTANY CRANKING POWI III - WIRE 19, - ECU CONTROLLED SWITCHE IV - WIRE 31 - SUPPLY VOLTAGE TO COLD SI

FVEL IN JECTION HARNESS CONNECTION ON VOLT, REG. BOARD



VOLTAGE REGULATOR /ENGINE BAY RELAY BOARD



ER TO ECU (FUEL PUMP?) ED GROUND TO F.P. RELAY

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ANT VALVE

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Loosen it and slide the plastic cover off.



You will then be able to grab the plastic handle and unplug the harness from the ECU. Carefully pull it straight out



