| ***Fuel System Data*** | |
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| **Alfa Romea 90** | |
| Fuel Pump Relay | The fuel pump relay monitor is a combination type consisting of the main relay and the fuel pump relay which is located directly below the radiator overflow bottle. Supply power to the Pink wire with a White trace or terminal E at the relay to test the fuel pump current draw. |
| **Alfa Romea 156 2002** | |
| Fuel System | Multipoint fuel injection. Single pump located in the fuel tank. Access is gained by removing the 2 tie down points in the boot compartment, directly beneath the rear parcel tray and unbolting the black access cover.<br>Voltage Supply: Brown wire with White trace. Earth: Black wire |
| Fuel Pump Relay | Located in the engine compartment relay box in front of the battery. |
| Current Draw | 3.0 amps. Access the fuel pump harness plug by unbolting the 2 tie down points in the boot compartment directly beneath the rear parcel tray, then unbolt |
| System Pressure | the black access cover. Conducting a current draw test on the fuel pump relay brings the electric cooling fan on distorting the current draw reading. |
| System Pressure | N/A |
| Injector Resistance | N/A |
| Filter | Located on the drivers side of the vehicle in front of the fuel tank. |
| **Alfa Romeo Spider 2002** | |
| Fuel System | Sequential Multipoint Fuel Injection - Single pump located in the fuel tank. Access is gained through the hood lining storage area with the hood lining in the up position. Remove the cover plate in the floor plan.<br>Voltage supply - White wire with Pink trace. Earth - Black wire. |
| Fuel Pump Relay | Located in the engine compartment in a relay block behind the drivers side headlamps assembly. |
| Current Draw | 3.0 amps. Remove the fuel pump relay. Place an ammeter between the two large female terminals of the relay socket and crank the engine. |
| System Pressure | 330 - 370 kpa. |
| Injector Resistance | 15 - 17 ohms. |
| Filter | Located in the fuel tank. |
| **Audi Quattro A6 2002** | |
| Engine | 2.8 T |
| Current Draw | 6.3 amps. Remove the fuel pump relay, place an ammeter between the two large female terminals of the relay socket and switch the ignition on. Remove the fuel pump fuse located on the drivers side end of the dash behind an access panel, place an ammeter between the two female terminals of the fuse socket and crank the engine. |
| System Pressure | 380 - 420 kpa at idle |
| Injector Resistance | 13.5 - 15.5 ohms |
| Filter | Located below the vehicle on the drivers side of the fuel tank. |
| **BMW 316i 1995** | |
| Engine | E36 1.6 litre OHC 4 Cyl |
| Fuel System | Bosch Motronic- Sequential Multipoint Fuel Injection. Single pump located in fuel tank. Access via lifting base of the rear seat and removing the cover plate in the floor. Power-Green wire with Purple trace. Earth-Brown wire. |
| Fuel Pump Relay | Light green coloured relay located in the main fuse/relay box of the engine compartment. |
| Current Draw | 4.5 amps. Place an ammeter between the two large female terminals of the relay socket and observe the reading. |
| System Pressure | 300 kpa |
| Injector Resistance | N/A |
| Filter | Located underneath the vehicle on the chassis rail near the passenger front control arm. |
| **BMW 318i 1981 - 91** | |
| Fuel Pump Relay | The fuel pump relay is mounted on the firewall under a black cover. The relay is Red in colour and is the centre relay. Bridge terminals 30 to 87 with an ammeter to test current draw. The fuel pump is fused after the relay. |
| **BMW 318is 1993 - 96** | |
| Fuel Pump Relay | The fuel pump relay is mounted next to the fuse and relay box in a block of three. The relay is Blue in colour and is the first from the front of the car. Bridge terminals 30 to 87 in the relay with an ammeter to test current draw. There is a 15 amp fuse in the fuse box. |
| **BMW 320i 1988 - 90** | |
| Fuel Pump Relay | The fuel pump relay is mounted at the left front strut tower and is the middle one. The fuel pump is protected by fuse No 11 in the fuse box. Use an ammeter and supply power to fuse No 11 to activate the fuel pump. |

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| **BMW 320i 1991 - 95** | |
| Fuel Pump Relay | The fuel pump relay is the White relay mounted in the fuse/relay box. The fuel pump is protected by a 15 amp fuse in the fuse/relay box. Bridge the green wire to the green/Purple wire at the relay to test current draw. |
| **BMW 325i 1988 -91** | |
| Fuel Pump Relay | The fuel pump relay is mounted in the relay block behind the right front strut tower. It is protected by fuse No 23 in fuse box. Bridge the fuse No 23 with ammeter to test current draw. |
| **Chrysler Jeep Cherokee 1999** | |
| Engine | V8 |
| Fuel System | PCM controlled pump and injectors, fuel rail has no return to tank. Single pump mounted in the plastic fuel tank. Pressure regulator in completely mechanical and not vacuum or PCM controlled. |
| Fuel Pump Relay | |
| Current Draw | 4.5 amps approximately. |
| System Pressure | 310 - 370 kpa. |
| Injector Resistance | 10.8 to 13.2 ohms at 20 degrees. |
| Filter | Metal case located near LHR spring. Filter is combined unit with pressure regulator. Filter is not serviced. |
| **Chrysler Neon PL 1999** | |
| Fuel System | Sequential Multipoint with no return fuel line. 12 volt pump located in fuel tank. Fuel pressure regulator is mechanically controlled. It is not PCM or vacuum controlled. |
| Fuel Pump Relay | Located in the Right hand Front fuse block, marked as "RLY FUEL" |
| Current Draw | 5.25 amps across terminals 30 and 87 of the fuel pump relay. |
| System Pressure | 338 kpa. |
| Injector Resistance | 13 ohms. |
| Filter | Located at fuel tank, part of fuel pump module. |
| **Chrysler Neon PL 2000** | |
| Fuel System | Sequential Multipoint with no return fuel line. Fuel pressure regulator is mechanically controlled. It is not PCM or vacuum controlled. 12 volt fuel pump located in the fuel tank. |
| Fuel Pump Relay | located in the R/H/F fuse block. |
| Current Draw | 5.25 amps across terminals 30 and 87 of the fuel pump relay. |
| System Pressure | 338 kpa. |
| Injector Resistance | 13 ohms. |
| Oxygen Sensors | Two heated oxygen sensors are use to monitor the fuel system and catalyst operation. One sensor is located in the exhaust manifold, its information is used by the PCM to adjust the injector pulse width to achieve the air/fuel ratio necessary for correct engine operation. The second sensor is located after the catalytic converter. The PCM compares both oxygen sensor signals to determine the efficiency of the catalyst. If the downstream sensor signal exceeds 90% of the signal value, of the upstream sensor, the catalyst may be faulty. |
| Filter | Located at fuel tank, part of the fuel pump module. |
| **Chrysler Voyager SE 1997** | |
| Fuel System | Sequential Multipoint with no return fuel line. 12 volt pump located in fuel tank. |
| Fuel Pump Relay | The fuel pump relay is located in the PDC and is controlled by the PCM. Fuse #16 supplies power to the relay contact (pin 30). PTC 1 in under dash fuse block supplies power to relay operating coil (pin 86). Fuel pump relay bypass: Bridge pins 30 & 87 with fused jumper wire. |
| Current Draw | 7 amps measured across fuse 16. The fuel pump module is earthed at the left rear quarter panel. |
| System Pressure | 338 kpa. |
| Injector Resistance | 12 ohms. |
| Filter | Mounted on top of the fuel tank with both hosed moulded to the filter. Quick release connectors are fitted to the other end of the hoses. |

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| **Citroen Berlingo 2002** | |
| Fuel System | Semi sequential Multipoint fuel injection. Single pump located in the fuel tank. Access is gained by removing the fuel tank. Access to the wiring harness is possible by lowering the fuel tank. Voltage Supply: Blue wire. Earth: Yellow/Green wire. |
| Fuel Pump Relay | Double relay located on the firewall. |
| Current Draw | 4.8 amps. Remove the fuel pump fuse located in the engine compartment fuse box. Place an ammeter between the two terminals of the fuse holder and switch the ignition on. |
| System Pressure | 300 kpa. |
| Injector Resistance | 120 ohms. |
| Filter | Located on the drivers side of the vehicle in front of the fuel tank. |
| **Citroen C3 2002** | |
| Fuel System | Sequential Multipoint fuel injection. Single pump located in the fuel tank. Access is gained by lifting the base of the rear seat, secured by three bolts, and removing the cover plate in the floorpan. Voltage Supply: Pink wire. Earth: White wire. |
| Fuel Pump Relay | Incorporated in the BSI control unit located behind the glovebox. |
| Current Draw | 4.1 amp. Remove the fuel pump fuse located in the engine compartment fuse box. Place an ammeter between the two terminals of the fuse socket and crank the engine. |
| System Pressure | 350 kpa. |
| Injector Resistance | N/A |
| Filter | Located in the fuel tank and is incorporated in the fuel sender assembly. |
| **Citroen C3 2002** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access to pump and harness plug gained by lifting drivers side rear seat base and removing plastic cover. Voltage supply: Purple wire. Earth: White wire. |
| Fuel Pump Relay | Double relay located between firewall and engine ECU. |
| Current Draw | 4.5 amps. Remove fuel pump fuse. Place ammeter between the two terminals of fuse socket and switch ignition on. |
| System Pressure | 300 kpa. |
| Injector Resistance | 14.5 ohms. |
| Filter | Located beneath vehicle on drivers side beside fuel tank. |
| **Daewoo 1994 -95** | |
| Fuel Pump Relay | The fuel pump relay is mounted in the fuse box in the dash fascia at the top right hand corner. Bridge terminals 2 and 4 at the relay and the fuel pump will run. |
| **Daewoo Kalos 2003** | |
| Fuel System | Sequential Multipoint Fuel Injection. Single pump located in the fuel tank. Access is gained by lifting the base of the rear seat and removing the cover plate plate in the floorpan. Voltage Supply: Brown wire. Earth: Black wire. |
| Fuel Pump Relay | Located in the engine compartment fuse/relay box. |
| Current Draw | 4.0 amps. Remove the fuel pump relay. Place an ammeter between the two female terminals 30 & 87 of the relay socket and switch the ignition on. |
| System Pressure | 284 - 325 kpa with ignition on. |
| Injector Resistance | 11.6 - 12.4 ohms |
| Filter | Located below the vehicle behind the fuel tank. |
| **Daewoo Lacetti 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat. Voltage supply: Grey wire. Earth: Black wire. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 5.5 amps. Remove fuel pump relay. Place ammeter between terminals 30 & 87 of relay socket. |
| System Pressure | 284 - 325 kpa. |
| Injector Resistance | 12.6 ohms. |
| Filter | Located on drivers side of vehicle in front of fuel tank. |

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| **Daewoo Tacuma 2000** | |
| Fuel System | Sequential Multipoint Fuel Injection. Single pump located in the fuel tank which incorporates a 2 second pre-prime with ignition on. |
| Fuel Pump Relay | In the fuse/relay box, passenger side of the engine bay. |
| Current Draw | 5 - 6 amps. Place an ammeter between terminals 30 and 87 in the fuel pump relay harness plug. Note, due to the small terminals on the relay, fine probes will be required to make contact in the harness plug. |
| System Pressure | 320 - 350 kpa. |
| Injector Resistance | 13 ohms approximately. |
| Filter | Located in engine bay, passenger side of the chassis rail. |
| **Daihatsu Charade 2003** | |
| Fuel System | Sequential Multipoint Fuel Injection - Single pump located in the fuel tank. Access is gained by removing the fuel tank. The fuel pump harness plug is located on the floor pan and can be accessed by lifting the base of the rear seat. Voltage supply: Red wire with White trace . Earth :White wire with Black trace. |
| Fuel Pump Relay | Located behind the glove box in the passenger compartment fuse / relay box. |
| Current Draw | 2.4 amps - Remove the fuel pump relay. Place an ammeter between the two large female terminals of the relay socket and switch on the ignition |
| System Pressure | 294 kpa ignition on. |
| Injector Resistance | 12 ohms. |
| Filter | Located in the fuel tank. |
| **Daihatsu Copen 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting carpet on passenger side of boot. Voltage supply: Red wire. Earth: White wire with black trace. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 2.6 amps. Remove fuel pump relay. Place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 2941 kpa. |
| Injector Resistance | N/A |
| Filter | Located in fuel tank. |
| **Daihatsu Terios 1997** | |
| Fuel System | Direct injection. The injectors are powered by the fuel pump relay via the EFI relay and are switched by the ECU supplying an earth. Electric fuel pump Located in the fuel tank. |
| Fuel Pump Relay | In the engine bay at the right strut tower. |
| Current Draw | 4.5 amps tested at the relay. |
| System Pressure | 284 kpa. |
| Injector Resistance | 11 - 17 ohms. |
| Filter | An inline filer is located on the inside of the right chassis rail, about 50 mm forward of the transmission cross member. |
| **Daihatsu Terios 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by removing fuel tank. Voltage supply: Red wire. Earth: White wire with silver dots. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 3.5 amps. Remove fuel pump relay. Place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 279 - 289 kpa with ignition on. |
| Injector Resistance | 11.0 - 17.0 ohms. |
| Filter | Located in fuel tank. |
| **Ford Capri** | |
| Fuel Pump Relay | Circuit opening relay mounted next to the ECU. Turn the ignition "ON" and bridge the Green/White wire with the Black wire at the fuel pump connector at the battery. CAUTION-A fuel pump cut-out switch is located in the boot. |
| **Ford Corsair 1989 - 92** | |
| Fuel Pump Relay | The fuel pump relay is mounted on the right guard and is the middle Green coloured relay. The fuel pump fuse is mounted in the fuse box under the dash fascia. Test current by bridging terminals 3 and 5 in the relay with the ignition "ON" and the fuel pump can be heard running. |

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| **Ford Courier 1992 - 96** | |
| Fuel Pump Relay | The fuel pump relay is mounted behind the left kick panel. The fuel pump check connector is White in colour and mounted under the bonnet on the right front guard. To run the fuel pump, bridge F.P. to grd. In the check connector then turn the ignition key to "ON" and the pump will run. Not a current test. |
| **Ford Escape 2001** | |
| Engine | 3.0 litre V6 Duratec 24 Valve Quad Cam |
| Fuel System | Electronic Sequential Fuel Injection - Returnless. In tank pump with pressure regulator and sender. Access under passenger side rear seat cushion. Fuel cut-off switch located behind drivers kick panel. Reset button access through opening in kick panel. |
| Fuel Pump Relay | Located in the engine bay fuse/relay box. |
| Current Draw | 4-6 amps. May be carried out at the fuel pump relay by bridging the terminals with an ammeter. |
| System Pressure | 448 kpa |
| Injector Resistance | Not available. |
| Filter | Located under the vehicle just forward of the fuel tank. |
| **Ford Explorer UX 2003** | |
| Fuel System | Sequential Multipoint Fuel Injection - Single pump located in the fuel tank. Access is gained by removing the fuel tank The fuel pump harness plug is located above the drivers side chassis rail between the front and rear doors. Voltage supply - Pink wire with Black trace. Earth - Black wire. |
| Fuel Pump Relay | Located in the engine compartment fuse/relay box. |
| Current Draw | 5.4 amp. Remove the fuel pump relay. Place an ammeter between the two large female terminals of the relay socket and switch the ignition on. |
| System Pressure | 448 kpa |
| Injector Resistance | Not available. |
| Filter | Located below the vehicle in front of the fuel tank. |
| **Ford Falcon AU 1998-1999** | |
| Fuel System | Sequential Electronic Fuel Injection. Single pump in the fuel tank controlled by the PCM and relay. |
| Fuel Pump Relay | |
| Current Draw | 5.5 amps at the fuel pump relay in the Fuse/Relay box in the engine bay. |
| System Pressure | 225 - 275 kpa. |
| Injector Resistance | 13.5 to 16 ohms. |
| Filter | Located under the floorpan on the passenger side of the vehicle, forward of the rear axle. |
| **Ford Falcon BA 2002** | |
| Fuel System | Sequential Multipoint injection. Single pump located in the fuel tank. Access is gained by lifting the base of the rear seat and removing the rubber grommet in the floorpan. Voltage Supply: Pink wire. Earth: Black wire. |
| Fuel Pump Relay | Located in the engine compartment fuse/relay box. |
| Current Draw | 4.7 amps. Remove the fuel pump relay. Place an ammeter between the two large female terminals of the relay socket and switch the ignition on. |
| System Pressure | 275 kpa with ignition on. |
| Injector Resistance | 13.5 - 16 ohms. |
| Filter | located below the centre of the vehicle on the inner side of the chassis rail. |
| **Ford Fiesta 1994 - 97** | |
| Fuel Pump Relay | The fuel pump relay is mounted under the dash on the drivers side. Test current draw with ignition "ON" and bridge terminal 1 Yellow/Black wire to terminal 2 Green/Yellow wire and the fuel pump will run. |
| **Ford Fiesta 2004** | |
| Fuel System | Sequential multipoint fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and removing rubber grommet in passenger side floor pan. Voltage supply: Green wire with red trace. Earth: Black wire. |
| Fuel Pump Relay | Located in passenger compartment fuse/relay box. Remove glovebox lid to access relay. |
| Current Draw | 6.9 amps. Remove fuel pump relay. Place ammeter between two large female terminals (3 & 5) of relay socket. |
| System Pressure | 380 kpa. |
| Injector Resistance | 12.4 ohms. |
| Filter | Located on passenger side front of fuel tank |

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| **Ford Focus 2002** | |
| Fuel System | Sequential Multipoint injection. Single pump located in the fuel tank. Access to the wiring loom is gained by lifting the base of the rear seat. Remove the fuel tank to access the fuel pump. Voltage Supply: Green wire with Orange Trace. Earth: Black wire. |
| Fuel Pump Relay | Located in the engine compartment fuse/relay box. |
| Current Draw | 6.4 amps. Remove the fuel pump relay and place an ammeter between the two large female terminals 3 and 5 of the relay socket. Numbers under relay. |
| System Pressure | 270 kpa at idle. |
| Injector Resistance | N/A |
| Filter | Located below the vehicle in front of the fuel tank. |
| **Ford F Series 1987 - 95** | |
| Fuel Pump Relay | The fuel pump relay is mounted behind the strut tower an the left front guard. The relay is Green in colour. Test current draw by bridging the Yellow wire to the Brown wire. |
| **Ford Laser KN 2000-2001** | |
| Fuel System | MECS- Mazda Electronic Control System). Multipoint Sequential Injection. 12 volt in tank pump. |
| Fuel Pump Relay | Circuit Opening Relay-Located in the relay box in the engine bay beside the battery. |
| Current Draw | 4 - 6 amps carried out at the circuit opening relay. Note, it is important that the current draw test be carried out between terminals A & B with ignition off. |
| System Pressure | 210 - 250 kpa. |
| Injector Resistance | 12 - 16 ohms at 20 degrees. |
| Filter | Two filters are in the fuel tank integrated in the fuel pump assembly. |
| **Ford Monedo 1995 - 96** | |
| Fuel Pump Relay | The fuel pump relay is mounted in the battery junction box under the bonnet. The fuel pump inertia switch is mounted behind the drivers kick panel. To test supply power to the Purple wire with Orange trace at the inertia switch and the fuel pump should run. |
| **Ford Territory 2004** | |
| Fuel System | Sequential multipoint fuel injection. Single pump located in fuel tank. Access by removing fuel tank. To test circuit check for power across two pink wires at fuel cut off switch. Voltage supply: Pink wire. Earth: Black wire. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 4.5 amps. Remove fuel pump relay. Place ammeter between two female terminals 3 & 5 on relay socket and switch ignition on. |
| System Pressure | 275 kpa with ignition on. |
| Injector Resistance | 13.5 - 16 ohms. |
| Filter | Located below centre of vehicle on inner side of passenger side chassis rail. |
| **Holden Astra TS 1999-2000** | |
| Fuel System | Multipoint Fuel Injection, Non return fuel system. Fuel pump, Pressure regulator located in the fuel tank. Gain access under the rear seat. |
| Fuel Pump Relay | Located in the engine compartment relay box near the battery. |
| Current Draw | 4.5 amps. Remove the fuel pump relay under the bonnet. |
| System Pressure | 240 - 260 kpa. |
| Injector Resistance | |
| Filter | Metal in-line fuel filter located under the vehicle, forward of the left rear wheel. |
| **Holden Astra 2001** | |
| Engine | Z18XE 1.8 litre in-line 4 cyl. 16 Valve DOHC |
| Fuel System | Multipoint sequential EFI, Non Returnless system with in-tank pump, pressure regulator and filter. Electric intank pump, access by removing fuel tank. |
| Fuel Pump Relay | Located with relays in engine bay passengers side. There are two purple relays, the fuel pump relay is the relay at the rear. |
| Current Draw | 4-6 amps. Carried out at the fuel pump relay. |
| System Pressure | 280-340 kpa at idle |
| Injector Resistance | Not available |
| Filter | In-Tank |

| **Holden Barina 1994** | |
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| Fuel System | Multec central injection. Single pump located in the fuel tank. |
| Fuel Pump Relay | |
| Current Draw | 3 - 4.5 amps. To test remove fuse 26 (F1) in the fuse panel under dash (Yellow 20A) bridge with ammeter. |
| System Pressure | |
| Injector Resistance | |
| Filter | Metal casing type, located in the fuel tank recess on the right rear underside of the vehicle. |
| **Holden Barina Joy 1995** | |
| Fuel Pump Relay | The fuel pump relay is located behind the drivers kick panel. The relay is Purple in colour. To operate the fuel pump, bridge the Red wire to the Red/Blue wire at the relay. |
| **Holden Barina XC 2001** | |
| Engine | Z14XE 1.4 litre 4 cyl. 16 Valve DOHC |
| Fuel System | Multec S-(F) non return Multipoint injection. Electric in-tank pump accessed under the rear seat via a cover plate. |
| Fuel Pump Relay | Located in the fuse/relay box in engine bay. |
| Current Draw | 4 amps. May be carried out at fuse No 9 in engine bay fuse box. |
| System Pressure | 370 kpa. |
| Injector Resistance | Not available. |
| Filter | Under vehicle on drivers side of fuel tank. |
| **Holden Camira 1985 - 86** | |
| Fuel Pump Relay | The fuel pump relay is mounted near the left side strut tower. Remove the relay and bridge terminals 30 to 87 with an ammeter to activate pump. |
| **Holden Commodore VL (6&8)** | |
| Fuel Pump Relay | The fuel pump relay is mounted in the fuse/relay box located at the upper left side of the firewall and is the closest relay to the engine. Remove the relay and bridge terminals 30 to 87 with an ammeter to test current draw. |
| **Holden Commodore VX '01** | |
| Engine | 3.8 litre V6 |
| Fuel System | Sequential multi point fuel injection. Single fuel pump located in fuel tank. Power-Purple. Earth-Black/Blue trace. |
| Fuel Pump Relay | Black coloured relay located in main fuse/relay box on drivers side strut tower area. |
| Current Draw | 4.7 amps. Remove fuel pump relay and place ammeter between two large female terminals of relay socket. |
| System Pressure | 270-350 kpa |
| Injector Resistance | 11.8 - 12.8 ohms |
| Filter | Located on rear subframe, R/H side of differential. |
| **Holden Cruz YG 2002** | |
| Engine | M15A 1.5 Litre 16 Valve DOHC |
| Fuel System | Sequential multi point fuel injection. Single fuel pump located in fuel tank. Access by removing the fuel tank. Power-Pink with Grey trace. Earth-Black with GREY trace. 4 pin harness plug located beneath R/H rear seat squab. |
| Fuel Pump Relay | Beige coloured relay located in engine bay main fuse/relay box. |
| Current Draw | 3.4 amps. Remove fuel pump relay and place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 270-310 kpa |
| Injector Resistance | 12.6 ohms |
| Filter | Located in fuel tank. |
| **Holden Frontera UE 1999** | |
| Fuel System | Multipoint electronic fuel injection. Single pump in tank controlled by PCM and Relay. |
| Fuel Pump Relay | Located in the right hand front fuse / relay box under the bonnet. |
| Current Draw | 5 - 6 amps. Connect ammeter between terminals 30 and 87 of the relay marked :F/PUMP" |
| System Pressure | 4 cyl = 283 - 376 kpa. 6 cyl = 333 - 376 kpa. |
| Injector Resistance | Serviced as unit, rail and injectors. |
| Filter | Located L/H inner chassis rail. |

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| **Holden Monaro VX V8 '01** | |
| Engine | 5.7 Litre V8 Gen III or 3.8 litre Supercharged V6 |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access gained from below the vehicle. |
| Fuel Pump Relay | Located in fuse/relay box in engine bay. |
| Current Draw | 5.7 amps. Remove fuel pump relay and place ammeter between two large terminals of relay socket. |
| System Pressure | 380-410 kpa (55-60 psi) |
| Injector Resistance | 12.9 ohms (Harness plug - 2.9 m/ohms |
| Filter | Located in front of fuel tank on sub frame. |
| **Holden Rodeo 2001** | |
| Engine | 3.2 Litre V6 DOHC |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access gained at drivers side of vehicle. Power source- Yellow wire with Blue trace. |
| Fuel Pump Relay | Located in engine bay fuse/relay box. |
| Current Draw | 4.5 amps. Remove fuel pump relay and place ammeter between terminals 30 and 87 of the relay socket. |
| System Pressure | 290-376 kpa |
| Injector Resistance | 11.8 - 12.6 ohms |
| Filter | Located on drivers side chassis rail in front of rear wheel. |
| **Holden Vectra JS 2001** | |
| Engine | 2.2 Litre 16 Valve DOHC |
| Fuel System | Multi point sequential EFI. Non Returnless system. Electric in-tank pump. |
| Fuel Pump Relay | Located with relays in engine bay passengers side. There are two purple relays, the fuel pump relay is the purple relay at the rear. |
| Current Draw | 3-6 amps while cranking. Remove fuel pump relay and place ammeter across two large terminals on relay base. |
| System Pressure | 280-340 kpa at idle. |
| Injector Resistance | Not available |
| Filter | Located under vehicle on passengers side of fuel tank. |
| **Holden Vectra 2003** | |
| Fuel System | Sequential Multipoint fuel injection. Single pump located in the fuel tank. Access is gained by lifting the rear seat base. Voltage Supply: Red wire with Blue trace. Earth: Brown wire. |
| Fuel Pump Relay | A Green relay located behind the boot compartment fuse/relay box and marked R4. |
| Current Draw | 4.8 amps. Remove the fuel pump fuse No 10 and connect an ammeter across the fuse connector terminals and crank the engine. Note: Due to the difficulty to access the fuel pump relay, it is recommended that the fuel pump fuse connector terminals are used to check current draw. |
| System Pressure | 380 kpa. |
| Injector Resistance | N/A |
| Filter | Located on the drivers side of the fuel tank. |
| **Holden Zafira TT 2001** | |
| Engine | 2.2 Litre 16 Valve DOHC |
| Fuel System | Multi point sequential EFI. Electric in-tank pump. |
| Fuel Pump Relay | Located in engine bay in small relay box behind battery. There are two purple relays, the fuel pump relay is the purple relay at the rear. |
| Current Draw | 3-6 amps. Remove fuel pump relay and place ammeter between two large female terminals in relay socket and turn ignition on. |
| System Pressure | N/A |
| Injector Resistance | N/A |
| Filter | Located under vehicle beside tank on passengers side. |
| **Honda Accord 1989 - 93** | |
| Fuel Pump Relay | The fuel pump is controlled by the main relay under the dash cowl on the drivers side. Bridge terminal 4, Yellow/Blue wire to terminal 7, Yellow wire at the relay. |
| **Honda Accord 1994** | |
| Fuel Pump Relay | The fuel pump is controlled by the main relay mounted under drivers dash near the steering column. To activate the fuel pump bridge the White/Green wire to a Black/Yellow wire to test current draw. |

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| **Honda Accord Euro 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting boot mat and remove access panel in luggage compartment floorpan. Voltage supply: Yellow wire with green trace. Earth: Black wire. |
| Fuel Pump Relay | Blue coloured relay located in fuse/relay block behind drivers side kick panel. |
| Current Draw | 4.6 amps. Remove fuel pump relay. Place ammeter between two large female terminals of relay socket and switch engine on. |
| System Pressure | 333 - 383 kpa ignition on. |
| Injector Resistance | 10 - 13 ohms. |
| Filter | Located in fuel tank |
| **Honda City 1991 - 94** | |
| Fuel Pump Relay | The EFI and the fuel pump[ relay is mounted under the dash on the drivers side near the accelerator pedal. To activate the fuel pump supply power to terminal 7, Yellow/Green wire at the relay. |
| **Honda Civic 2001-2002** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and removing cover plate in floor pan. |
| Fuel Pump Relay | Located behind the glove box. Remove the bracket to gain easy access to both relays. |
| Current Draw | 3.75 amps. Remove fuse 17,(identified by a picture of an engine on the cover) located in the fuse/relay box under the drivers side dash. Place an ammeter between the two female terminals of the fuse socket and start the engine. |
| System Pressure | 270 - 320 kpa. |
| Injector Resistance | 10 - 13 ohms. |
| Filter | Located under the floor pan at the rear area of the fuel tank. |
| **Honda CRV 2001** | |
| Engine | 2.4 Litre 16 Valve DOHC with I-VTEC |
| Fuel System | Sequential multi point programmed fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and removing cover plate in floorpan. |
| Fuel Pump Relay | PGM-FI relay secured to lower passenger side A pillar. Remove glove box to gain access. |
| Current Draw | 3.6 amps. Remove harness plug to PGM-FI relay. Place ammeter between two female terminals of both plug yellow wires with a green trace, turn ignition on. |
| System Pressure | 200-250 kpa |
| Injector Resistance | 10-13 ohms |
| Filter | Located in engine bay and secured to firewall. |
| **Honda HRV 1999** | |
| Fuel System | Sequential Multipoint Programmed Fuel Injection. (PGM-FI). 12 volt fuel pump located in the fuel tank. |
| Fuel Pump Relay | |
| Current Draw | Approximately 2.8 amps. Remove the fuel pump fuse in the fuse box underneath the dash, using am ammeter across the fuse holder check the current draw. |
| System Pressure | 260 - 310 kpa with vacuum hose disconnected. |
| Injector Resistance | 14.6 ohms. |
| Filter | Metal canister in-line mounted on the firewall. |
| **Honda HRV 2000** | |
| Fuel System | Multipoint Electronic sequential fuel injection, with MAP sensor. 12 volt fuel pump located in the fuel tank. Access is gained by removing the rear seat and pump cover plate. |
| Fuel Pump Relay | Located under the dash on the drivers side, to the right of the steering column. Access is gained by removing the storage compartment, which has the fuse allocation label attached. Remove the single retaining screw and lever the compartment out gently to reveal the large Grey fuel pump relay. |
| Current Draw | 3 - 4 amps. Disconnect Relay plug. Connect an ammeter between battery and fuel pump female terminals. |
| System Pressure | 260 - 310 kpa with pressure regulator vacuum hose disconnected or 200 - 250 kpa with vacuum hose connected. |
| Injector Resistance | 12 - 15 ohms. |
| Filter | Located at the centre of the firewall. |

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| **Honda Integra 2000** | |
| Fuel System | PGM-FI, Programmed sequential Multipoint fuel injection. 12 volt pump located in the fuel tank. |
| Fuel Pump Relay | |
| Current Draw | 4.5 to 5 amps. |
| System Pressure | 320 - 370 kpa with the pressure regulator vacuum hose disconnected. |
| Injector Resistance | 12 - 15 ohms. |
| Filter | At the firewall adjacent to the brake booster. |
| **Honda Integra R Type 2000** | |
| Fuel System | PGM-FI, Programmed sequential Multipoint fuel injection. 12 volt pump located in the top of fuel tank. Access via the boot behind drivers side rear passenger seat. |
| Fuel Pump Relay | Under the dash on the drivers side, above the interior fuse panel. Large Grey 7 pin relay. |
| Current Draw | 4.5 amps at the relay connector. |
| System Pressure | 320 - 370 kpa with the pressure regulator vacuum hose disconnected. |
| Injector Resistance | 12 - 15 ohms. |
| Filter | At the firewall adjacent to the brake booster. |
| **Honda Integra & Type R '01** | |
| Engine | 2.0 Litre 16 Valve DOHC with I-VTEC(K20A3 & K20A2) |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat & removing cover plate in floorpan. POWER - Yellow wire with blue trace. EARTH - Black wire |
| Fuel Pump Relay | Blue coloured relay located behind glove box. |
| Current Draw | 4.5 amps. Remove fuel pump relay and place ammeter between two large female terminals of relay socket and turn ignition on. |
| System Pressure | 320-370 kpa |
| Injector Resistance | 10-13 ohms |
| Filter | Located in fuel tank. |
| **Honda Jazz 2002** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access is gained by removing the centre console and the cover plate in floorpan. An Access panel below the hand brake lever allows access to the harness plug. Voltage Supply: Yellow wire with Green trace. Earth: Large Black wire. |
| Fuel Pump Relay | Blue coloured relay located at the rear of the passenger compartment fuse/relay block. Remove the bolts securing the fuse/relay block to access the relay. |
| Current Draw | 3.75 amps. Remove fuel pump fuse. Place an ammeter between two large female terminals of fuse socket and turn ignition on. |
| System Pressure | 320 - 370 kpa. |
| Injector Resistance | 10 - 13 ohms. |
| Filter | Located in fuel tank. |
| **Honda MDX 2003** | |
| Fuel System | Sequential Multipoint fuel injection. Single pump located in fuel tank. Access is gained by removing the passenger side second row seat and cutting a flap in the carpet to gain access to the access panel (as recommended by Honda). Take care not to cut the harness below the carpet. Voltage Supply: Yellow wire with Blue trace. Earth: Black wire. |
| Fuel Pump Relay | Located below the drivers side dash near the diagnostic connecter and is Blue in colour. Remove the lower dash to access the relay. |
| Current Draw | 6 amps. Remove the fuel pump relay. Place an ammeter between the two larger female terminals of the relay socket and switch ignition on. Note: The test can also be performed using the fuel pump fuse socket located in the passenger compartment fuse box. The fuse is identified by the No 1. |
| System Pressure | 390 - 440 kpa. |
| Injector Resistance | 10 - 13 ohms. |
| Filter | Located in the fuel tank in the fuel pump assembly. |
| **Hyundai Accent 2000** | |
| Fuel System | Multipoint EFI. Single pump mounted in the fuel tank. |
| Fuel Pump Relay | Under bonnet in relay compartment behind battery in front of LHF strut tower. |
| Current Draw | 4.9 amps. |
| System Pressure | 320 kpa. Sealed mechanical regulator mounted with fuel pump in the fuel tank. |
| Injector Resistance | 15.55 - 16.25 ohms at 20 degrees C. |
| Filter | Under rear seat attached to fuel pump outlet. |

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| **Hyundai Elantra XD, RD 2000/01** | |
| Fuel System | Sequential Multipoint fuel injection. Returnless system. 12 volt pump in fuel tank, accompanied by assist pump for low fuel/angle parking. Pump accessed under rear seat. |
| Fuel Pump Relay | Located in Fuse / Relay box in engine bay behind battery. |
| Current Draw | 4 - 6 amps carried out at fuel pump check connector (rear centre of engine near inlet manifold). Place ammeter in series between the check connector and the positive side of the battery. |
| System Pressure | 350 kpa. |
| Injector Resistance | 15.55 - 16.25 ohms. |
| Filter | In tank, part of pump unit. |
| **Hyundai Getz 2002** | |
| Fuel System | Sequential Multipoint fuel injection. Single pump in fuel tank. Access is gained by tilting the rear seat assembly forward and removing the cover plate in the floor pan. Voltage Supply: Grey wire. Earth: Black wire. |
| Fuel Pump Relay | Located in the engine compartment fuse/relay box. |
| Current Draw | 4.7 amps. Remove the fuel pump relay. Place an ammeter between the two large female terminals of the relay socket. |
| System Pressure | 350 kpa. |
| Injector Resistance | 15.55 - 16.25 ohms. |
| Filter | Located in the fuel tank. |
| **Hyundai Grandeur MY 1999** | |
| Fuel System | ECI (Melco based) sequential Multipoint fuel injection. Single high pressure pump mounted in the fuel tank. |
| Fuel Pump Relay | |
| Current Draw | 4.5 amps. Remove fuel pump relay, and place ammeter between two large female terminals of relay socket and turn ignition on. |
| System Pressure | 320 - 340 kpa, vacuum disconnected at idle. 270 kpa vacuum connected at idle. |
| Injector Resistance | 13 - 16 ohms at 20 degrees C. |
| Filter | Metal case mounted under LHR floor, near LHF corner of fuel tank. |
| **Hyundai Santa FE 2000/01** | |
| Fuel System | Multipoint sequential injection. 12 volt in tank pump. Accessed under the rear seat on the passenger side. |
| Fuel Pump Relay | Located in the fuse/relay box in the engine bay at the passenger side. |
| Current Draw | 4 - 6 amps. Carried out at the fuel pump check connector in the fuse/relay box in the engine bay. Connect ammeter between check connector and battery positive for current draw. Ignition does not have to be on. |
| System Pressure | 255 kpa. |
| Injector Resistance | 14.5 - 14.7 ohms. |
| Filter | In tank as part of fuel pump assembly. |
| **Hyundai Sonata 4 Cyl 1999** | |
| Fuel System | Multipoint sequential injection. 12 volt in tank pump. |
| Current Draw | 4 amps on the Grey wire in the connector taped to the wiring harness under the dash on the passenger side of the steering column. |
| System Pressure | 255 kpa. |
| Injector Resistance | 13 - 16 ohmc at 20 degrees C. |
| Filter | Metal case filter which is mounted under the rear floor on the left side near the left front corner of the fuel tank. |
| **Hyundai Sonata V6 1999** | |
| Fuel System | Siemens sequential multipoint injection. Single pump located in fuel tank. |
| Current Draw | Approximately 4 amps. Remove the No 1fuse (fuel pump) from the fuse compartment under the bonnet. Apply an ammeter across the fuse holder and crank the engine. |
| System Pressure | 270 kpa. |
| Injector Resistance | 13 - 16 ohms at 20 degrees C. |
| Filter | Metal case filter which is mounted under the rear floor on the left side near the left front corner of the fuel tank. |

| **Hyundai Terracan 2002** | |
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| Engine | 3.5 Litre DOHC V6 |
| Fuel System | Multiport fuel injection. Single pump located in fuel tank. Access gained by lifting base of rear seat and removing cover plate in floorpan. |
| Fuel Pump Relay | Incorporated in MFI control relay which also controls power supply to ignition system and located behind passenger side kick panel. |
| Current Draw | 4.4 amps. Remove fuel pump fuse (No. 9) located in engine bay fuse/relay box. Place ammeter between two female terminals of fuse socket, crank engine. |
| System Pressure | 320-340 kpa |
| Injector Resistance | 13-16 ohms |
| Filter | Secured to passenger side chassis rail near front of fuel tank. |
| **Kia Carnival 2001-2002** | |
| Engine | 2.5 Litre Quad Cam 24 Valve |
| Fuel System | N/A. Fuel pump located in fuel tank. |
| Fuel Pump Relay | Located in engine bay fuse/relay box behind battery. |
| Current Draw | 3-5 amps. Place ammeter in series across B+ and Fuel Pump terminals in diagnostic connector located in engine bay under bonnet relay box. |
| System Pressure | 240-270 kpa. (33-38 psi) |
| Injector Resistance | 14.5 ohms at 20 degrees Celsius |
| Filter | L/H chassis rail, in front of axle. |
| **Kia Carnival LS 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access gained by lifting access cover between centre row of seats and removing metal cover in floor pan. Voltage supply: Green wire with red trace. Earth: Black wire with red trace. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 5 amps. Remove fuel pump relay. Place ammeter between two large female terminals of relay socket. |
| System Pressure | 296 - 317 kpa with fuel pressure regulator and vacuum hose disconnected. |
| Injector Resistance | 14.5 ohms. |
| Filter | Located in fuel tank. |
| **Kia Cerato 2004** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat & removing cover plate in floorpan. Voltage supply: Blue wire. Earth: Black wire. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 4.7 amps. Remove fuel pump relay. Place ammeter between two female terminals (30 & 87) of relay socket. |
| System Pressure | 350 kpa with ignition on. |
| Injector Resistance | 14.45 - 16.8 ohms. |
| Filter | Located in fuel tank (incorporated in fuel pump assembly). |
| **Kia Optima 2001** | |
| Engine | 2.5 Litre V6 24 Valve DOHC |
| Fuel System | Sequential multi point electronic injection. 12V electric In-Tank pump. Access by removing tank. |
| Fuel Pump Relay | Located in fuse/relay box in engine bay. |
| Current Draw | 4-6 amps, carried out at the fuel pump fuse in the engine bay fuse/relay box. |
| System Pressure | 320 - 340 kpa. |
| Injector Resistance | 15.8 to 15.9 ohms. |
| Filter | Located under the vehicle on the passenger side in front of the fuel tank. |
| **Kia Sorento 2003** | |
| Fuel System | Multipoint sequential fuel injection. Electric in tank pump. Access is gained by lifting the base of the rear seat forward and lifting the flap in the carpet. Remove the cover plate in the floor pan. Voltage Supply: Red wire. Earth: Black wire (next to Red wire). |
| Fuel Pump Relay | Located in the engine compartment fuse/relay box. |
| Current Draw | 4.7 amps. Remove the fuel pump relay. Place an ammeter between the two large female terminals of the relay socket and switch the ignition on. |
| System Pressure | 323 - 333 kpa. |
| Injector Resistance | 13 - 15.2 ohms. |
| Filter | Located in the fuel tank in the fuel pump assembly. |

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| **Kia Spectra 2001** | |
| Engine | 1.8 Litre DOHC 16 Valve |
| Fuel System | Multipoint sequential fuel injection. Electric in tank pump. Access by lifting rear seat squab. |
| Fuel Pump Relay | Located in engine bay fuse/relay box. Relay No 52 (small Grey relay) |
| Current Draw | 3-5 amps. May be carried out at fuel pump fuse. (Fuse No.27, Red 10A) Remove fuse & place ammeter across fuse terminals in fuse box & crank engine. |
| System Pressure | 320-330 kpa |
| Injector Resistance | 14.8 ohms |
| Filter | Located under vehicle on R/H side beside fuel tank. |
| **Kia Spectra 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and removing plate in floor pan. Voltage supply: Pink wire with grey trace. Earth: black wire. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 3.5 amps. Remove fuel pump relay. Place ammeter between terminals 30 & 87 of relay socket and switch ignition on. |
| System Pressure | 320 - 350 kpa. |
| Injector Resistance | 14 - 15 ohms. |
| Filter | Located below vehicle on inner side of drivers side rear sub-frame. |
| **Landrover/RangeRover (86-89)** | |
| Fuel Pump Relay | The fuel pimp relay is mounted under the drivers seat. To activate the fuel pump, bridge terminal 30 White wire to terminal 87 White/Purple wire at the relay. |
| **Landrover Discovery 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by removing 3rd row of seats (if fitted) and carpet at front of luggage compartment. Remove cover plate in floor pan. Voltage supply: Purple wire with grey trace. Earth: Black wire |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. Labelled R1. |
| Current Draw | 4.9 amps. Remove fuel pump relay. Place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 350 kpa. |
| Injector Resistance | 13.8 - 16 ohms. |
| Filter | Located in fuel tank. |
| **Landrover Freelander Turbo Diesel 2003** | |
| Fuel System | Common rail direct injection diesel. Electric pressure pump (primary low pressure) located on passenger side strut tower. Supplies fuel under pressure to main pump (Bosch chain driven) mounted on drivers side front of engine block. Voltage supply: White wire with purple trace. Earth: Black wire. |
| Fuel Pump Relay | Yellow relay located in passenger compartment fuse/relay box. |
| Current Draw | 11.0 amps. Remove fuel pump relay and place ammeter between terminals 3 & 5 of relay socket. |
| System Pressure | 250 - 350 kpa (primary low pressure pump). |
| Injector Resistance | N/A. |
| Filter | Located on passenger side front strut tower. |
| **Landrover Freelander V6 2003** | |
| Fuel System | Sequential multipoint fuel injection. Single pump located in fuel tank. Access by folding forward base of drivers side rear seat and removing metal plate on floor panel. Voltage supply: White wire with purple trace. Earth: Black wire. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 5.5 amps. Remove fuel pump relay. Place ammeter between two large female terminals (30 & 87) of relay socket and switch ignition on. |
| System Pressure | 350 kpa. |
| Injector Resistance | 14.5 ohms. |
| Filter | Located in fuel tank. |

| **Lexus ES300 2001** | |
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| Engine | 3.0 Litre 24 Valve Quad Cam |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access gained by removing base of rear seat & cover plate in floorpan. |
| | Power Source - Blue wire with Black trace (check during crank). Earth - Brown wire. |
| Fuel Pump Relay | Circuit Opening Relay located in engine bay Fuse/relay box. |
| Current Draw | 4.1 amps. Remove Circuit Opening Relay. Place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 301-347 kpa |
| Injector Resistance | 13.8 ohms |
| Filter | Located in engine bay on passenger side chassis rail. |
| **Lexus IS200 2001** | |
| Engine | 2.0 Litre 24 Valve Quad Cam |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access gained by removing base of rear seat & cover plate in floorpan. |
| Fuel Pump Relay | Circuit Opening Relay located in engine bay Fuse/relay box. |
| Current Draw | 4.9 amps. Remove Circuit Opening Relay. Place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 304-343 kpa |
| Injector Resistance | 13.4 - 14.2 ohms |
| Filter | Located in fuel tank |
| **Lexus LS430 2002** | |
| Engine | 3UZ-FE 4.3 Litre V8 32 Valve Quad Cam |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access gained by removing base of rear seat. |
| | Power Source - Red wire with black trace (check during crank) Earth - White wire with Black trace. |
| Fuel Pump Relay | Green relay located in engine bay fuse/relay box. |
| Current Draw | 6.7 amps. Remove fuel pump relay. Place ammeter between two large female terminals of relay socket & switch ignition on. |
| System Pressure | 304-343 kpa |
| Injector Resistance | 13.4 - 14.2 ohms |
| Filter | Located in fuel tank. |
| **Lexus RX330 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by removing rear seats. |
| | Voltage supply: Green wire. Earth: White wire with black trace. |
| Fuel Pump Relay | Blue relay (cicuit opening relay) closest to glove box, located above passenger compartment fuse box. |
| Current Draw | 5 amps. Remove circuit opening relay. Place ammeter between two copper coloured terminals of relay socket and switch ignition on. |
| System Pressure | 301 - 347 kpa. Vacuum hose disconnected. |
| Injector Resistance | 2 - 2.2 K/ohms. |
| Filter | Located in fuel tank. |
| **Lexus SC430 2002** | |
| Engine | 3UZ-FE 4.3 Litre V8 32 Valve Quad Cam |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access gained by removing base of rear seat. |
| | Power Source - Red wire with black trace (check during crank) Earth - White wire with Black trace. |
| Fuel Pump Relay | Green relay located in engine bay fuse/relay box. Vehicle has circuit Opening Relay that controls fuel pump. |
| Current Draw | 7.5 amps. Remove circuit opening relay. Place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 304-343 kpa |
| Injector Resistance | 13.4 - 14.2 ohms |
| Filter | Located in fuel tank. |

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| **Lotus Elise 2002** | |
| Engine | 1.8 Litre DOHC |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access harness plug behind passenger side seat. |
| Fuel Pump Relay | Fuel pump relay incorporated with ECU assembly. |
| Current Draw | 4.5 amps. Remove fuel pump fuse located in engine bay near ECU. Place ammeter between two large female terminals of fuse socket & switch ignition on. |
| System Pressure | 200-300 kpa |
| Injector Resistance | N/A |
| Filter | Located on passenger side of engine bay below coolant reservoir bottle. |
| **Mazda B2600 Bravo 1989 -95** | |
| Fuel Pump Relay | The fuel pump is controlled by a relay mounted behind the passenger kick panel. To activate the fuel pump, bridge terminal B, Black/White wire to terminal C, Brown/Red wire. This vehicle also has a white coloured check connector mounted under the bonnet on the right side guard. To check the fuel pump operation, bridge the terminals in the check connector. (Not a FP current draw test). |
| **Mazda B2600 Bravo 1989 -95** | |
| Fuel Pump Relay | The fuel pump is mounted at the passenger kick panel. To activate the fuel pump, bridge terminal A, Black/White wire to terminal B Black/red wire or bridge FP to Gnd in the check connector mounted on the firewall. (Not a FP current draw test). |
| **Mazda MPV 1993/94** | |
| Fuel System | Single pump located in the fuel; tank. |
| Fuel Pump Relay | Relay at side of ECU in L/F floor pan. Activated by earthing F/P connection at diagnostic connector - ignition on. Pump relay controlled by ECU. |
| Current Draw | 4 - 5amps. Can be measured at internal fuse block. (Engine 15 amp). Under crank. |
| System Pressure | 260 - 320 kpa. |
| Injector Resistance | |
| Filter | Right side of engine compartment. |
| **Mazda 2 2003** | |
| Fuel System | Sequential Multipoint fuel injection. Single pump located in the fuel tank. Access is gained by removing the fuel tank. Voltage Supply - Black wire with a Yellow trace. Earth - Black wire. |
| Fuel Pump Relay | The blue fuel pump relay is located in the engine compartment fuse/relay box and is marked "Circuit". |
| Current Draw | 4.5 amps. Remove the fuel pump relay and place an ammeter between the two female large terminals marked of the relay socket. |
| System Pressure | 210 - 250 kpa |
| Injector Resistance | 13 - 14 ohms |
| Filter | Located beneath the passengers side of the vehicle in front of the fuel tank. |
| **Mazda 3 2003** | |
| Fuel System | Sequential multipoint fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and remove cover on drivers side floor pan. Voltage supply: Green wire with red trace. Earth: Black wire. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 5.3 amps. Remove fuel pump relay. Place ammeter between two large female terminals of relay socket. |
| System Pressure | 380 kpa. |
| Injector Resistance | 12.2 ohms. |
| Filter | Located in fuel tank. |
| **Mazda 6 2003** | |
| Fuel System | Sequential Multipoint fuel injection. Single pump located in the fuel tank. Access is gained by lifting the base of the rear seat and removing the cover plate in the floorpan. Voltage supply - Green wire with Red trace. Earth - Black wire. |
| Fuel Pump Relay | Located in the passenger side kick panel behind an access panel. Relay is colour Blue, identified as Circuit AJ51 on the diagram on inside of access panel. |
| Current Draw | 5.3 amps. Remove the fuel pump fuse (No18) located in the engine compartment fuse/relay box or fuel pump relay. Place an ammeter between the two large female terminals of the fuse or relay socket and switch the ignition on. |
| System Pressure | 375 - 450 kpa |
| Injector Resistance | 11.4 - 12.06 ohms |
| Filter | Located in the fuel tank. |

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| **Mazda Premacy 2001** | |
| Fuel System | Multipoint Sequential Injection with fuel return line. Electric in tank pump consisting of filter and level gauge. |
| Fuel Pump Relay | Located in engine bay fuse box. |
| Current Draw | 4 amps. May be carried out at the fuel pump relay in the engine bay fuse box (passenger side of the inner guard). Bridge terminal 30 & 87. |
| System Pressure | 280kpa. |
| Injector Resistance | N/A |
| Filter | In the fuel tank. |
| **Mercedes Benz A Class 1999** | |
| Fuel System | Electronic Fuel injection with Hot wire Air Flow Sensor. 12 volt fuel pump located in the fuel tank. |
| Fuel Pump Relay | |
| Current Draw | 4 to 9 amps. Check at the fuel pump relay. |
| System Pressure | 340 - 380 kpa at idle. |
| Injector Resistance | 16 ohms. |
| Filter | Located below the right side centre door pillar area, between the floor and the underbody panel. Remove panel to gain access. |
| **Mercedes Vito 2000/01** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. |
| Fuel Pump Relay | Located below passenger seat (identified by brown relay socket). |
| Current Draw | 9.3 amps. Remove fuel pump relay and place ammeter between two large female terminals on relay socket. |
| System Pressure | 320 - 420 kpa. |
| Injector Resistance | N/A |
| Filter | Located at rear of fuel tank. |
| **MG TF 160 2004** | |
| Fuel System | Sequential multipoint fuel injection. Single pump located in fuel tank. To access pump, remove hoodwell trim and subwoofer assy. Remove body deadener and engine cover behind passenger seat. Remove fuel pump access cover to the body. Voltage supply: Purple wire. Earth: Black wire. |
| Fuel Pump Relay | Located on passenger side of boot compartment behind trim. |
| Current Draw | 5.9 amps. Remove fuel pump relay and place ammeter between two large female terminals of relay socket. |
| System Pressure | 350 kpa (ignition on). |
| Injector Resistance | N/A |
| Filter | Located on passenger side of engine compartment. |
| **Mitsubishi Challenger 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access gained from beneath vehicle. Voltage supply: Yellow wire with blue trace. Earth: Black wire. |
| Fuel Pump Relay | Located behind passenger side kick panel. (closest relay to outer edge of vehicle). |
| Current Draw | 3.7 amps. Remove fuel pump relay. Place ammeter between two terminals marked COM and NO of the relay socket and switch ignition on. |
| System Pressure | 265 kpa at idle with vacuum hose connected. |
| Injector Resistance | 13.0 - 16.0 ohms. |
| Filter | Located on bracket on passenger side rear of chassis rail. |
| **Mitsubishi FTO 1995** | |
| Engine | 6A12 Quad Cam V6 2.0 Litre |
| Fuel System | Multi point fuel injection. Single pump in fuel tank. Access gained by lifting rear seat base and removing cover plate in floorpan. Power - Black wire with blue trace (cranking only) Earth - Black wire. |
| Fuel Pump Relay | Located behind centre console beside Engine ECU. Both engine control & fuel pump relays located there. Fuel pump relay is one closest to passenger side. |
| Current Draw | 2.6 amps. Place ammeter between single black wire with blue trace located on passenger side of firewall & the other probe to a good earth, Crank engine. |
| System Pressure | N/A |
| Injector Resistance | 14-15 ohms |
| Filter | Located at the centre of the firewall. |

| **Mitsubishi Lancer 1999** | |
|---|---|
| Engine | 1.5 & 1.8 Ltr |
| Fuel System | Electronic Multipoint fuel injection. Fuel pump located in the fuel tank. |
| Fuel Pump Relay | Relay box located at the left inner guard. |
| Current Draw | 4 - 6 amps. |
| System Pressure | 265 kpa at idle. |
| Injector Resistance | 16.5 ohms. |
| Filter | Located at the left side of the firewall. |
| **Mitsubishi Lancer CG 2002** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and remove black cover on passenger side of floor pan. Voltage supply: Red wire. Earth: Black wire. |
| Fuel Pump Relay | Located in passenger compartment fuse/relay box. |
| Current Draw | 3.5 amps. Remove fuel pump relay no. 2 and place ammeter between top left and bottom right terminals of relay socket and switch ignition on. |
| System Pressure | 265 kpa at idle with vacuum hose connected. |
| Injector Resistance | 14 - 15 ohms |
| Filter | Located in fuel tank. |
| **Mitsubishi Magna AWD 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and remove access panel in floor pan. Voltage supply: Black wire with blue trace. Earth: Black wire. |
| Fuel Pump Relay | Located below dash in front of centre console. Remove gear selector surround panel to access. |
| Current Draw | 4.8 amps. Disconnect fuel pump relay harness plug. Place ammeter between two female terminals of harness plug and switch ignition on. |
| System Pressure | 324 - 343 kpa with vacuum hose disconnected. |
| Injector Resistance | 13 - 16 ohms. |
| Filter | Located below vehicle on drivers side of fuel tank. |
| **Mitsubishi Pajero 2000** | |
| Fuel System | Multipoint Injection. Fuel pump located in fuel tank. |
| Fuel Pump Relay | |
| Current Draw | 2.5 amps |
| System Pressure | 329 kpa. |
| Injector Resistance | 13 - 16 ohms at 20 Degrees. |
| Filter | In the fuel tank. |
| **Mitsubishi Pajero 2002** | |
| Fuel System | Electronically controlled Multiport fuel injection. Single pump in the fuel tank. Voltage Supply: Black wire with Blue trace. Earth: Black wire. |
| Fuel Pump Relay | Black coloured relay located in a compartment between the main fuse/relay box and the carbon canister, (closest relay to firewall). |
| Current Draw | 3.7 amps. Remove the fuel pump relay and place an ammeter between the two terminals closet to the firewall of the relay socket and switch the ignition on. |
| System Pressure | 324 - 343 kpa. |
| Injector Resistance | N/A |
| Filter | Located in the fuel tank. |
| **Mitsubishi Triton 2003** | |
| Fuel System | Diesel injection. Distributor type injection pump. Voltage supply: Blue wire (ignition on). Earth: Black wire (bolted to bracket on fuel pump inlet line). |
| Glow plug relay | Located on passengers side front inner guard near firewall. |
| Current Draw | N/A |
| System Pressure | 14,710 kpa (15,690 kpa initial pressure). |
| Glow plug resistance | 1,000 ohms |
| Filter | Located on passengers side of firewall. |

| **Morgan Plus 8 2002** | |
|---|---|
| Fuel System | Multiport injection from pressure regulated Returnless supply. Single pump I the fuel tank. Voltage Supply: White wire with Purple trace. Earth: Black wire. |
| Fuel Pump Relay | Black coloured relay located beside the inertia switch on the passenger side of the firewall. |
| Current Draw | 6 - 8 amps. Conduct the current draw across the fuel pump fuse connector. Remove the fuel pump fuse and turn the ignition on. |
| System Pressure | 3.5 Bars. |
| Injector Resistance | 13 - 15 ohms. |
| Filter | Located on the drivers side of the engine compartment near the battery. |
| **Nissan 180SX Turbo 1995** | |
| Engine | SR20-DET 1998cc DOHC Inter-cooled Turbo |
| Fuel System | Electronic multi point sequential injection Fuel pump located under panel in boot. (drivers side). |
| Fuel Pump Relay | Fuses and relays located in Passenger Compartment (behind drivers sidekick panel) and in engine bay (drivers side behind battery). |
| Current Draw | 7.1 amps under crank. Test conducted at fuel pump fuse. |
| System Pressure | N/A |
| Injector Resistance | N/A |
| Filter | Located on drivers side of engine bay under brake master cylinder. |
| **Nissan 200SX S15 2002** | |
| Engine | SR20-DET 2.0 Litre 16 Valve DOHC |
| Fuel System | L Jetronic sequential multi point fuel injection. Single pump located in fuel tank. Access gained by folding down rear seat & removing cover plate in floorpan. Power - Black wire with yellow trace Earth - Black wire. |
| Fuel Pump Relay | Blue coloured relay located in drivers side A pillar. Remove kick-panel and securing bracket to access. |
| Current Draw | 6.1 amps. Remove fuel pump fuse located in passenger compartment fuse box. Place ammeter between two large female terminals of fuse socket & switch ignition on. |
| System Pressure | 245 kpa with vacuum hose connected to regulator. |
| Injector Resistance | 10-14 ohms |
| Filter | Located on drivers side inner guard. |
| **Nissan 350Z 2004** | |
| Fuel System | Sequential multipoint fuel injection. Single pump located in fuel tank. Access by removing bass speaker behind drivers seat and removing metal cover in floor panel. Voltage supply: Black wire with yellow trace. Earth: Black wire. |
| Fuel Pump Relay | In engine compartment main fuse/relay box located beneath passenger side plenum chamber trim. |
| Current Draw | 4.2 amps. Remove fuel pump relay and place ammeter between two copper coloured terminals of corresponding relay socket pins. Switch ignition on. |
| System Pressure | 350 kpa. |
| Injector Resistance | 15.5 ohms. |
| Filter | Located in fuel tank. |
| **Nissan Maxima 2000** | |
| Fuel System | ECCS sequential. 12 volt in tank pump, accessed under rear seat. |
| Fuel Pump Relay | |
| Current Draw | 4 - 6 amps, at fuel pump fuse , driver side dash panel. |
| System Pressure | 235 - 294 kpa. |
| Injector Resistance | 10 - 14 ohms. |
| Filter | Engine bay beside brake master cylinder. |
| **Nissan Maxima 2004** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and remove access panel in floor pan. Voltage supply: Black wire with yellow trace. Earth: Black wire. |
| Fuel Pump Relay | Incorporated into Intelligent Power Distribution Module (IPDM). Sealed unit. |
| Current Draw | 4.5 amps. Remove 15amp fuel pump fuse located in engine compartment fuse/relay block. Place ammeter between two female terminals of fuse socket and start engine. |
| System pressure | 350 kpa at idle. |
| Injector Resistance | 13.5 - 17.3 ohms |
| Filter | Located in fuel tank |

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| **Nissan Patrol 2002** | |
| Engine | 4.8 Ltr |
| Fuel System | Sequential Multipoint fuel injection. The vehicle is equipped with two fuel tanks, a main tank and a sub or reserve tank. Both tanks contain a single fuel pump. Access the main tank fuel pump is gained by lifting the base of the rear seat on the driver side. To gain access to the sub tank fuel pump, lift the floor covering in the cargo area. The fuel pump[ fuse is the No 17 15 amp fuse located below the drivers side dash. Main Tank Voltage Supply: Blue wire with White trace. Earth: Black wire. Sub Tank Voltage Supply: Green wire with Black trace. Earth: Black wire. |
| Fuel Pump Relay | Blue coloured relay located below the drivers side dash. |
| Current Draw | 5.5 amps. Remove the fuel pump relay and place an ammeter between the two larger female terminals of the relay socket and switch ignition on. |
| System Pressure | 245 kpa at idle. |
| Injector Resistance | 13.5 - 17.5 ohms. |
| Filter | Located on the drivers side inner chassis rail near the fuel tank. |
| **Nissan Pulsar 1998 / 1999** | |
| Fuel System | Electronic Concentrated Control System. Multipoint injection with a hot film mass airflow sensor. 12 volt pump located in the fuel tank. Pre-prime with ignition key on. |
| Fuel Pump Relay | |
| Current Draw | 4.5 amps, tested at the fuel pump fuse. |
| System Pressure | 245 kpa. |
| Injector Resistance | 11 ohms. |
| Filter | Metal canister in-line, mounted on the passenger side of the firewall. |
| **Nissan Pulsar N16 '00 -'01** | |
| Fuel System | Multipoint sequential. Fuel pump located in fuel tank accessed under rear seat. Voltage supply: Black/Yellow wire. Earth: Black wire. |
| Fuel Pump Relay | Located in drivers side kick panel. There are two relays, the fuel pump relay is closest to driver door and has Black/ Yellow and Black wires. |
| Current Draw | 5 amps at the fuel pump fuse located behind the removable tray on the drivers side lower dash area. Crank engine for this test. |
| System Pressure | 250 kpa at idle with vacuum hose connected. |
| Injector Resistance | 16.3 ohms |
| Filter | Located in fuel tank. |
| **Nissan Pulsar N16 2001** | |
| Engine | 1.6 Litre QG16DE-N16 16 Valve DOHC |
| Fuel System | ECU controlled multi point sequential injection. Fuel pump located in fuel tank accessed under rear seat. Power - Yellow/Black. Earth - Black. |
| Fuel Pump Relay | Located in drivers side kick panel. There are two relays, the fuel pump relay is closest to driver door and has Black/ Yellow and Black wires. |
| Current Draw | 5 amps. Remove fuel pump fuse located behind drivers side lower dash. Place ammeter between two female terminals and crank engine. |
| System Pressure | 250 kpa at idle with vacuum hose connected. |
| Injector Resistance | 16.3 ohms |
| Filter | Located in fuel tank. |
| **Nissan Skyline GTS 1996** | |
| Fuel System | Sequential Multipoint fuel injection. Single pump in the fuel tank. Access to the pump is under a plate in the boot, beside the battery. Voltage Supply: Light Blue wire with Silver Dot. Earth: Grey wire. |
| Fuel Pump Relay | Blue coloured relay located beside the battery in the boot. |
| Current Draw | 6.3 amps. Remove the fuel pump relay. Place an ammeter between terminals 3 & 5 of the relay socket and observe the meter. |
| System Pressure | N/A |
| Injector Resistance | 10 - 12 ohms. |
| Filter | Located on the drivers side inner guard. |
| **Nissan X-Trail 2001** | |
| Engine | 2.5 Litre 16 Valve DOHC |
| Fuel System | N/A. Electric in-tank pump X 2. Accessed under rear seat via cover plate. |
| Fuel Pump Relay | Located in drivers side lower kick panel. |
| Current Draw | 3-6 amps carried out at fuel pump fuse. Fuses located in Engine Bay beside battery on drivers side lower dash area. |
| System Pressure | 350 kpa (51psi) at idle |
| Injector Resistance | N/A |
| Filter | Located in tank. |

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| **Peugeot Import 405 1992** | |
| Fuel Pump Relay | The fuel pump is controlled by the main relay mounted on the guard next to the air cleaner. To activate the fuel pump, bridge terminal 11, Black wire to terminal 13, White wire with an ammeter. There is a fuse mounted in the circuit after the main relay, usually in the fuse box. |
| **Proton Jumbuck 2002** | |
| Fuel System | Sequential Multipoint fuel injection. Single pump in the fuel tank. Access is gained by removing the fuel tank. A grey harness plug is located above the fuel tank at the front. Voltage Supply: Black wire with Blue trace. Earth: Black wire. |
| Fuel Pump Relay | Located between the centre console and the heater box. Relay with black wire Blue trace. |
| Current Draw | 4.5 amps. Use an ammeter between the fuel pump check connector that is taped to the wiring harness located on the centre of the firewall and the battery positive terminal, or remove the fuel pump relay and place an ammeter between the two female terminals marked COM - (Black wire with a White trace) and NO (Black wire with Blue trace) of the relay socket and switch the ignition on. |
| System Pressure | 330 - 350 kpa. |
| Injector Resistance | 14 - 15 ohms. |
| Filter | Located on the drivers side of the firewall. |
| **Proton Persona 2002** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by removing rear seat base. Black harness plug located beneath access cover. Voltage supply: Yellow wire with blue trace. Earth: Black wire. |
| Fuel Pump Relay | Located between centre console and heater box. (Black wire/Blue trace). |
| Current Draw | 4.5 amps. Place ammeter between fuel pump check connector and battery positve terminal. OR remove fuel pump relay and place ammeter between two female terminals marked COM (Black wire/White trace) and NO (Black wire/Blue trace) of relay socket and switch ignition on. |
| System Pressure | 330 - 350 kpa. 47 - 50 psi with vacuum hose disconnected. |
| Injector Resistance | 14 - 15 ohms. |
| Filter | Located on drivers side of firewall. |
| **Proton Waja 2002** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by removing rear seat base. Harness plug located beneath an access cover. Voltage supply: Black wire with red trace. Earth: Black wire. |
| Fuel Pump Relay | Located behind centre console facia (Black wire/Blue trace). |
| Current Draw | 4.5 amps. Remove fuel pump relay. Place ammeter between two female terminals COM (black wire/ white trace) and NO (black wire/blue trace) of relay socket and switch ignition on. |
| System Pressure | 265 kpa. |
| Injector Resistance | 14 - 16 ohms. |
| Filter | Located on drivers side front of fuel tank. |
| **Rangerover 2003** | |
| Fuel System | Sequential multipoint fuel injection. Single electric pump located in fuel tank. Access by removing rear seats and carpet and removing access panel in floor pan. Voltage supply: Blue wire. Earth: Black wire. |
| Fuel Pump Relay | Located on drivers side of luggage compartment in fuse/relay box. |
| Current Draw | 4.5 amps. Remove fuel pump relay. Place ammeter between two large female terminals (87 & 30) of relay socket and switch ignition on. |
| System Pressure | 3.5 bar. |
| Injector Resistance | 13.8 - 15.2 ohms |
| Filter | Located below vehicle on drivers side of fuel tank. |
| **Renault Clio 2003** | |
| Fuel System | Multi point fuel injection. Single pump located in fuel tank. Access by lifting base of drivers side rear seat and remove plastic cover in floor panel. Voltage supply: Tan wire (engine cranking). Earth: Black wire. |
| Fuel Pump Relay | Located in engine compartment fuse/relay box. |
| Current Draw | 3.5 amps. Bridge terminals 3 & 5 of relay socket. |
| System Pressure | 300 kpa. |
| Injector Resistance | 14.5 ohms. |
| Filter | Located beneath vehicle on drivers side front of fuel tank. |

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| **Renault Scenic 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and remove access panel in floor pan. Voltage supply: White wire with yellow dots. Earth: Black wire. |
| Fuel Pump Relay | Located in passenger compartment fuse/relay box (part of Integration relay). |
| Current Draw | 4.6 amps. Disconnect Inertia switch harness plug. Place ammeter across terminals and crank engine. |
| System Pressure | 350 kpa. |
| Injector Resistance | 15 - 16 ohms. |
| Filter | Located in front of fuel tank on drivers side of vehicle. |
| **Rover 75 Club Tourer 2001** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and remove access panel in floor pan. Voltage supply: White wire with purple trace. Earth: Black wire. |
| Fuel Pump Relay | Located below dash on passenger side. Remove access panel. |
| Current Draw | 4.7 amps. Remove fuel pump relay. Place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 350 kpa. |
| Injector Resistance | 13 - 16 ohms. |
| Filter | Located in fuel tank. |
| **Rover 75 V6 2002** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and remove access panel in floor pan. Voltage supply: White wire with purple trace. Earth: Black wire. |
| Fuel Pump Relay | Located below dash on passenger side. Remove access panel. |
| Current Draw | 4.7 amps. Remove fuel pump relay. Place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 350 kpa. |
| Injector Resistance | 13 - 16 ohms. |
| Filter | Located in fuel tank. |
| **Saab 9000 Turbo 1986 - 89** | |
| Fuel Pump Relay | The fuel pump relay can be accessed by removing the glove box. Remove the two screws of the fuse rail and pivot down the housing at the front. To activate fuel pump, supply power to the fuse No 14 using an ammeter. |
| **Saab 900 XS 1994** | |
| Fuel Pump Relay | The fuel pump relay is mounted under the drivers dash cowls. To activate the fuel pump, supply power to the fuse No 32 mounted in the fuse box, which is located on the side of the dash behind a cover and the drivers door needs to be open to get to it. |
| **Saab 9-3 1998** | |
| Fuel System | Motronic. Electric pump in the fuel tank. |
| Current Draw | 7.0 amps at the fuse No 32 in the instrument panel fuse block. |
| System Pressure | 300 kpa. |
| Injector Resistance | 14 ohms. |
| Filter | An inline filter is located in front of the right side of the fuel tank. |
| **Subaru Forestor 2000 - 01** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access to the harness plugs and fuel lines, is gained by lifting the carpet behind the drivers side of the rear seat and removing the cover plate in the floor pan. |
| Fuel Pump Relay | Located below dash on drivers side directly above kickpanel. Identified by green harness plug. |
| Current Draw | 3.1 amps. Remove the fuel pump relay from the harness plug and place an ammeter between the two load circuit female terminals of the harness plug. The load circuit is identified by the diagram on the relay or the two copper male terminals on the relay. |
| System Pressure | 294 kpa. |
| Injector Resistance | 11 - 12 ohms. |
| Filter | Located in the engine compartment secured to the passenger side strut tower. |

| **Subaru Forestor MY03** | |
|---|---|
| Fuel System | Sequential multi point fuel injection. Located in the fuel tank. The harness plug is located below the drivers side rear seat area. The fuel tank must be removed to access the fuel pump. Voltage Supply: Black wire with Red trace. Earth: Black wire. |
| Fuel Pump Relay | Located behind the passenger side kick panel. (Silver relay). |
| Current Draw | 3.1 amps. Remove the fuel pump relay. Place an ammeter across the two copper coloured terminals and observe the reading. |
| System Pressure | 284 - 314 kpa with fuel pressure regulator hose disconnected at idle. |
| Injector Resistance | N/A |
| Filter | Located on the passenger side strut tower. |
| **Subaru Impreza RS 2002** | |
| Engine | 2.5 Litre |
| Fuel System | Multiport fuel injection. Single pump located in fuel tank. Access by removing fuel tank. Access to harness plug by removing two bolts securing base of rear seat and lifting base. Power - Black wire with Red trace. Earth - Black wire. (Wire colours are on pump side of harness plug) |
| Fuel Pump Relay | Secured to passenger side A pillar above kick panel. Identified by Green harness plug. |
| Current Draw | 3.6 amps. Remove fuel pump relay harness plug and connect ammeter between two large terminals with ignition on. |
| System Pressure | 206-235 kpa |
| Injector Resistance | 13-16 ohms |
| Filter | Located on passenger side of engine bay. |
| **Subaru Liberty AWD 2002** | |
| Engine | EJ25 2.5 Litre |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access gained by lifting base of rear seat & removing cover plate in passenger side door. Power - Red wire with black trace. Earth - Black wire with White trace. |
| Fuel Pump Relay | Silver coloured round relay with green harness plug located behind drivers side lower dash area. |
| Current Draw | 3 amps. Remove fuel pump relay and place ammeter between two copper coloured terminals of relay socket. |
| System Pressure | 206-235 kpa |
| Injector Resistance | 15.4 ohms |
| Filter | Located in fuel tank. |
| **Subaru Outback 2001** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access to the harness plugs and fuel lines, is gained by lifting base of rear seat & removing cover plate. |
| Fuel Pump Relay | Located below the dash on the drivers side. Identified by a green harness plug. |
| Current Draw | 3.0 amps. Remove the fuel pump relay from the harness plug and place an ammeter between the two load circuit female terminals of the harness plug. The load circuit is identified by the diagram on the relay or the two copper male terminals on the relay. |
| System Pressure | 206 - 235 kpa. |
| Injector Resistance | 11 - 12 ohms. |
| Filter | Located in the fuel tank, built into the fuel pump assembly. |
| **Subaru Outback H6 2003** | |
| Fuel System | Sequential Multi point fuel injection. Single in tank pump. Access is gained by lifting the passenger side base of the rear seat and removing the cover plate in the floor pan. Voltage Supply: White wire. Earth: Black wire. |
| Fuel Pump Relay | Silver round relay with a Green harness plug located beside the passengers compartment fuse box. |
| Current Draw | 4.3 amps. Remove the fuel pump relay. Place an ammeter between the two copper coloured (top) terminals of the relay socket and switch the ignition on. |
| System Pressure | 300 kpa. |
| Injector Resistance | 13.7 ohms. |
| Filter | Located in the fuel tank. |

| **Subaru Outback H6 2004** | |
|---|---|
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by lifting base of rear seat and remove metal plate on drivers side floor pan. Voltage supply: Green wire with red trace. Earth: Green wire with yellow trace. |
| Fuel Pump Relay | Located in passenger side kick panel. (Closest relay to door) |
| Current Draw | 4.6 amps. Remove fuel pump relay. Place ammeter between two teminals marked 1 & 2 on relay socket and switch ignition on. |
| System Pressure | 279 - 309 kpa with engine idling and vacuum hose connected. |
| Injector Resistance | 11.0 - 13.0 ohms. |
| Filter | Located in fuel tank. |
| **Subaru WRX 2003** | |
| Fuel System | Sequential Multi point fuel injection. Single in tank pump. Access to the harness plug is gained by unbolting and removing the base of the rear seat. Voltage Supply: Black wire with Yellow trace. Earth: Black wire with a White trace. |
| Fuel Pump Relay | Located above the passenger side kickpanel and is connected by a green harness plug. |
| Current Draw | 6.3 amps. Disconnect the fuel pump relay harness plug. Place an ammeter between the two of the relay harness plug and crank the engine. |
| System Pressure | 450 - 677 kpa. |
| Injector Resistance | 5 - 20 ohms. |
| Filter | Located in the engine compartment on the passenger side. |
| **Suzuki Grand Vitara 1998** | |
| Fuel System | Sequential Multi point fuel injection. 12 volt electric in tank pump. |
| Current Draw | 3 - 4 amps (measured at the relay). |
| System Pressure | 210 - 260 kpa at idle. |
| Injector Resistance | 7 - 10 ohms. |
| Filter | Inline canister type located at the front of the fuel tank above the rear differential. |
| **Suzuki Grand Vitara XL-7** | |
| Engine | 2.7 Litre V6 24 Valve DOHC |
| Fuel System | Multi point sequential EFI. Electric in tank pump. Access by removing fuel tank. |
| Fuel Pump Relay | Located under dash on drivers side. Fuel pump relay is the lower of two relays next to fuse box. |
| Current Draw | 4-6 amps. Connect ammeter at fuel pump relay base. |
| System Pressure | N/A |
| Injector Resistance | N/A |
| Filter | Located under vehicle just forward of fuel tank. |
| **Suzuki Ignis 3/5 D/Hatch 2001** | |
| Engine | |
| Fuel System | Multi point sequential EFI with fuel return to tank. Electric pump in tank consisting of filter, pressure regulator and level gauge. |
| Fuel Pump Relay | Fuel pump relay in the engine bay fuse box, passenger side of the firewall. |
| Current Draw | 3 - 5 amps, may be carried out at the fuel pump relay in the engine bay fuse box, passenger side of the firewall. Ignition must be on. |
| System Pressure | 270 - 310 kpa, fuel pump on, engine not running. Over 250 kpa within 1 minute after engine being switched off. |
| Injector Resistance | 11.3 - 13.8 ohms at 20 degrees. |
| Filter | Part of pump assembly. |
| **Suzuki Jimny 1999** | |
| Fuel System | MPI. Fuel pump located in the fuel tank |
| Fuel Pump Relay | |
| Current Draw | 3 - 4 amps, measured at the fuel pump relay. |
| System Pressure | 210 - 260 kpa |
| Injector Resistance | 10 - 15 ohms |
| Filter | Located in the fuel tank integrated with the fuel pump. |

| **Suzuki Liana 2001** | |
|---|---|
| Engine | 1.6 Litre 16 Valve DOHC |
| Fuel System | Multi point sequential EFI. Electric in tank pump. Access by removing fuel tank. |
| Fuel Pump Relay | Located in engine bay relay box. |
| Current Draw | 3-5 amps. Carried out at fuel pump relay by placing ammeter on fuel pump relay base where two copper terminals go. Test with ignition on. |
| System Pressure | Over 250 kpa within 1 min. after engine/pump off. |
| Injector Resistance | 11.3 - 13.8 ohms |
| Filter | Located in fuel tank. |
| **Toyota Avalon 2000** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. |
| Fuel Pump Relay | Circuit opening relay, located above left kick panel. |
| Current Draw | 3.6 amps. Place an ammeter between terminals 3 and 5 in the Circuit Opening Relay harness plug and turn the ignition to the on position. |
| System Pressure | 301 - 347 kpa. |
| Injector Resistance | N/A |
| Filter | Located in the engine bay. Left side chassis rail. |
| **Toyota Avesis 2002** | |
| Engine | 2.0 Litre DOHC |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. To access fuel pump harness plug, vehicle seats and carpet need to be removed. Power - Blue wire with black trace. Earth - White wire with Black trace. |
| Fuel Pump Relay | Black coloured relay located below dash behind glove box. |
| Current Draw | 3.6 amps. Remove fuel pump relay and place ammeter between two large female terminals of relay socket. |
| System Pressure | 304-343 kpa |
| Injector Resistance | 0.2 - 0.3 ohms |
| Filter | Located in fuel tank. |
| **Toyota Camry MCV20R '01** | |
| Engine | 3.0 Litre V6 Quad Cam 24 Valve |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. |
| Fuel Pump Relay | Circuit opening relay - Located in main fuse box under bonnet. |
| Current Draw | 4.7 amps. Place ammeter between two large pins in the circuit opening relay harness plug and turn ignition on. |
| System Pressure | 301-347 kpa |
| Injector Resistance | 13.8 ohms |
| Filter | Located in engine bay, left side chassis rail. |
| **Toyota Camry 2003** | |
| Engine | V6 |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access is gained by lifting the base of the rear seat and removing the cover plate in the floor pan. Voltage Supply: Blue wire with black trace. Earth: White wire with Black trace. |
| Fuel Pump Relay | Located in the engine compartment fuse/relay box. Identified as the Circuit Opening Relay. |
| Current Draw | 3.5 amps. Remove the circuit opening relay. Place an ammeter between the two large female terminals of the relay socket and switch the ignition on. |
| System Pressure | 304 - 343 kpa. |
| Injector Resistance | 13.4 - 14.2 ohms. |
| Filter | Located in the fuel tank and is incorporated with the fuel pump assembly. |

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| **Toyota Corolla Ascent '00/01** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access to harness plug gained by lifting base of rear seat and the carpet (passenger side) and then removing the cover plate in the floor pan. |
| Fuel Pump Relay | Circuit opening relay is located below the dash above the drivers side kick panel. |
| Current Draw | 3.75 amps. Remove the circuit opening relay located below the dash on the drivers side. Place ammeter between the two large female terminals of the relay socket and switch the ignition "ON". |
| System Pressure | 206 - 255 kpa. |
| Injector Resistance | 13.4 - 14.2 ohms. |
| Filter | Located in the engine compartment, secured to the firewall on the passenger side. |
| **Toyota Corolla 2002** | |
| Engine | 1.8 Litre 16 Valve DOHC (1ZZ-FE) |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access to harness plug gained by lifting base of rear seat and removing cover plate in floorpan. Power - Black with Red trace. Earth - White wire with Black trace. |
| Fuel Pump Relay | Circuit opening relay - Located in top part of dash on passenger side above fuse box. |
| Current Draw | 3.75 amps. Remove fuel pump harness plug located below base of rear seat. Use wire between earth of plug & socket, place ammeter between power terminal of plug and socket. Switch ignition on. |
| System Pressure | 304-343 kpa at idle |
| Injector Resistance | 13.4 - 14.2 ohms |
| Filter | Located in fuel tank |
| **Toyota Hilux 2002** | |
| Engine | V6 |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access gained by removing the fuel tank. The fuel pump connector is located on the drivers side of the vehicle in line with the rear door. Voltage Supply: Green wire with White trace. Earth: White wire with Black trace. |
| Fuel Pump Relay | Black coloured relay located behind the passengers side air vent tube. Remove the glove box and air vent tube to access the relay. |
| Current Draw | 4.5 amps. Remove the circuit opening relay. Place an ammeter between the two large female terminals of the relay socket and switch the ignition on. |
| System Pressure | 265 - 304 kpa. |
| Injector Resistance | 13.8 ohms. |
| Filter | Located on the passenger side inner guard. |
| **Toyota Kluger 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuell tank. Access gained by lifting the passenger side rear seat. Voltage Supply: Blue wire. Earth: White wire with Black trace. |
| Fuel Pump Relay | The circuit opening relay is located in the passenger compartment fuse/relay box. |
| Current Draw | 4.5 amps. Place an ammeter between the Brown wire & Black wire located on the back of the passenger compartment fuse/relay block. Switch ignition on. |
| System Pressure | 304 - 343 kpa at idle. |
| Injector Resistance | 14 - 15 ohms. |
| Filter | Located in the fuel tank. |
| **Toyota Prado 2002** | |
| Engine | 4 Cylinder |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access gained by removing the second row of seats and the carpet. Remove the service cover in the floorpan. Voltage Supply: Black wire with Red trace. Earth: White wire with Black trace. |
| Fuel Pump Relay | Located in the engine compartment fuse/relay box and is identified as C/OPN (Circuit opening Relay). |
| Current Draw | 3.5 amps. Remove the circuit opening relay. Place an ammeter between the two large female terminals of the relay socket and switch the ignition on. |
| System Pressure | 265 - 304 kpa. |
| Injector Resistance | 13.4 - 14.2 ohms. |
| Filter | Located on the passenger side inner guard. |

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| **Toyota Prius 2001** | |
| Engine | 1.5 Litre DOHC & 3 Phase Electric Motor (MG2) |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access gained by removing base of rear seat and cover plate in floorpan. |
| Fuel Pump Relay | Circuit opening relay - Located in fuse/relay box in engine bay. |
| Current Draw | 2.45 amps. Remove circuit opening relay and place ammeter between two large terminals of relay socket. Switch ignition on. |
| System Pressure | 304-343 kpa |
| Injector Resistance | 13.4 - 14.2 ohms |
| Filter | Located in fuel pump assembly in fuel tank. |
| **Toyota Prius 2003** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access gained by lifting base of rear and the access panel in the floor pan. Voltage Supply: Red wire. Earth: White/Black wire. |
| Fuel Pump Relay | Intergrated in the intergation relay located on the passenger side of the engine compartment below the fuse/relay box. |
| Current Draw | The design of the fuel system electrical circuit prevents conducting a fuel system current draw. |
| System Pressure | 304 - 343 kpa. |
| Injector Resistance | |
| Filter | Located in fuel pump assembly in fuel tank. |
| **Toyota Rav 4 2002** | |
| Engine | 1AZ-FE 2.0 Litre DOHC |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access gained by lifting base of rear seat & removing cover plate in floorpan. Power - Blue wire with black trace. Earth - White wire with Black trace. |
| Fuel Pump Relay | Circuit opening relay - Located in engine bay fuse box. |
| Current Draw | 3.6 amps. Remove circuit opening relay and place ammeter between two large terminals of relay socket. Switch ignition on. |
| System Pressure | 304-343 kpa |
| Injector Resistance | 13.4 - 14.2 ohms |
| Filter | Located in fuel tank |
| **Toyota Soarer SC400 '92-'94** | |
| Engine | 4.0 Litre V8 Quad Cam 32 Valve |
| Fuel System | Sequential multi point fuel injection (2 x cam positioning sensors) Single pump located in fuel tank. Access gained by removing bottom of rear seat partition located in boot compartment. |
| Fuel Pump Relay | Fuel pump ECU located behind passenger side cabin quarter panel trim. Operates via EFI main relay. |
| Current Draw | 6.3 amps. Can be checked at Engine Diagnostic Connector located on passenger side of inlet manifold. Connect ammeter between FP & B terminals with ignition on. |
| System Pressure | 265-304 kpa |
| Injector Resistance | 13.4 - 14.2 ohms |
| Filter | Located under passenger side of vehicle in front of rear wheel arch area. |
| **Toyota Tarago 2001** | |
| Fuel System | Sequential multi point fuel injection, no fuel return. Single pump located in fuel tank which incorporates the fuel filter. |
| Fuel Pump Relay | Circuit Opening Relay is located behind the passenger side kick panel. Remove the glove box for easy access. |
| Current Draw | 3.6 amps. Remove the glove box to allow access to the relay. Remove the relay and place an ammeter between the two large female terminals on the circuit opening relay socket and turn the ignition to the on position. Insert two spade electrical terminals into the large female terminals in the relay socket for easier access to connect ammeter probes due to the limited space available. |
| System Pressure | 304 - 350 kpa. |
| Injector Resistance | 13.4 - 14.2 ohms. |
| Filter | Located in the fuel tank. (Replacement) |
| **Volvo 360 1986 - 88** | |
| Fuel Pump Relay | The control relay is mounted next to the battery on the firewall. To activate the fuel pump, bridge the two Red wires at the relay with an ammeter or locate the fuel pump fuse in the fuse box and supply power to it via an ammeter. |

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| **Volvo 940 1990 - 95** | |
| Fuel Pump Relay | The fuel pump is controlled by the main relay which is located in the centre console in the fuse/relay box located behind the ashtray assembly. There is a fuel pump fuse in the fuse box. To activate the fuel pump, remove the fuel pump fuse and use the fuel pump fuse holder, which can be used to test both the high and the low pressure fuel pumps. To test, supply power with an ammeter to one terminal of the fuse holder, to read the low pressure fuel pump and to the other terminal to read the high pressure pump. |
| **Volvo 960 1991 - 95** | |
| Fuel Pump Relay | The fuel pump relay is mounted on the right side of the console and it's a Green relay on the third bank from the bottom. There is a fuel pump fuse mounted in the fuse box. To activate the fuel pump, remove the fuel pump fuse and use the fuel pump fuse holder, which can be used to test both the high pressure fuel pump and the low pressure fuel pump. To test, supply power using an ammeter to one terminal of the fuse holder, to read the low pressure fuel pump and to the other terminal to read the high pressure pump. |
| **Volvo S40 Turbo 2002** | |
| Engine | 2.0 Litre Turbo |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Harness plug located below centre area of rear seat below carpet. Power - Blue wire. Earth - Black wire. |
| Fuel Pump Relay | N/A |
| Current Draw | 5.9 amps. Remove fuel pump fuse located in engine bay main fuse/relay box. Place ammeter across terminals of fuse holder. |
| System Pressure | 309 kpa |
| Injector Resistance | 12.4 ohms |
| Filter | Located under vehicle in front of passenger side of fuel tank. |
| **Volvo S40 2004** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by removing fuel tank. Access harness plug by lifting base of rear seat on passenger side. Voltage supply: Green wire with white trace. Earth: White wire with black trace. |
| Fuel Pump Relay | Located below glove box in fuse/relay block. Access by removing panel below dash. Loosen clips supporting fuse/relay block and lower. |
| Current Draw | 4.8 amps. Remove fuel pump relay. Place ammeter between two large female terminals (3 & 5) of relay socket. |
| System Pressure | 380 kpa with ignition on. |
| Injector Resistance | 12 ohms. |
| Filter | Located in fuel tank. |
| **Volvo S60 2002** | |
| Engine | 2.4 Litre 5 Cyl DOHC |
| Fuel System | Sequential multi point fuel injection. Single pump located in tank. Access gained by lifting base of rear seat & removing cover plate in floorpan. Harness plug located above floorpan. Power - Blue wire with Red trace. Earth - Black wire. |
| Fuel Pump Relay | Located below drivers side dash in relay block. Relay is labelled MI12. |
| Current Draw | 5.1 amps. Remove fuel pump relay and place ammeter between two large female terminals of relay socket and switch ignition on. |
| System Pressure | 380 kpa |
| Injector Resistance | 12 ohms |
| Filter | Located below vehicle and secured to floorpan on drivers side of fuel tank. |
| **Volvo V70 XC 2001** | |
| Engine | B5244T3 2.4 Litre 5 Cyl DOHC Turbocharger |
| Fuel System | Sequential multi point fuel injection incorporating an accelerator position switch. Single pump located in fuel tank. Access to harness plug gained by lifting base of rear seat. Remove cover plate to gain access to fuel lines. Power - Blue wire with Red trace. Earth - Black wire. |
| Fuel Pump Relay | Located in relay block below drivers side dash |
| Current Draw | 4.9 amps. Remove fuel pump relay from relay block and place ammeter between two load circuit female terminals of relay socket. |
| System Pressure | 380 kpa |
| Injector Resistance | 12 ohms |
| Filter | Located below vehicle on drivers side of fuel tank. |

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| **Volvo V70 2004** | |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access by removing drivers side rear seat and accessing cover plate in floor pan. Access wiring harness by lifting base of rear seat on drivers side. Voltage supply: Blue wire. Earth: Black wire. |
| Fuel Pump Relay | Located below drivers side dash in relay block. Access by removing panel near pedal assembly. |
| Current Draw | 5 amps. Remove No. 33 15 amp fuse in passenger compartment fuse box. Place ammeter between two female terminals of fuse socket and crank engine or remove fuel pump relay and place ammeter between two large female terminals of relay socket. |
| System Pressure | 380 kpa. |
| Injector Resistance | 12 ohms. |
| Filter | Located below vehicle near drivers side of fuel tank. |
| **VW Golf 2001** | |
| Engine | 1.6 Litre SOHC |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access gained by lifting base of rear seat and removing cover plate of in floorpan. |
| Fuel Pump Relay | Located in relay block below drivers side dash. Identified by No. 409 on relay. |
| Current Draw | 5 amps. Remove fuel pump relay and place ammeter between two female terminals of relay socket and turn ignition on. |
| System Pressure | 250 kpa. 300 kpa with the vacuum hose to the pressure regulator disconnected. |
| Injector Resistance | 14-17 ohms |
| Filter | Located under floorpan on drivers side of fuel tank. |
| **VW Caravelle 2003** | |
| Engine | V6 |
| Fuel System | Sequential multi point fuel injection. Single pump located in fuel tank. Access to cover plate is gained by removing the drivers seat and carpet. Voltage Supply: Red wire with Yellow trace. Earth: Brown wire. |
| Fuel Pump Relay | Located in relay block below drivers side dash. Identified by No. 167 on the body of the relay. |
| Current Draw | 5 amps. Remove fuel pump fuse or relay. The fuse is No 18 fuse located below the drivers side dash. and place ammeter between two large female terminals of the fuse or relay socket and crank the engine. |
| System Pressure | 250 kpa at idle or 300 kpa with the vacuum hose to the pressure regulator disconnected. |
| Injector Resistance | 13 - 19 ohms. |
| Filter | In line filter type located above the fuel tank. |
| **VW Passat 2002** | |
| Fuel System | Sequential multipoint fuel injection. Single pump located in fuel tank. Access by lifting floor mat in boot compartment and removing access panel in floor pan. Voltage supply: Green wire with yellow trace. Earth: Brown wire. |
| Fuel Pump Relay | Located below drivers side dash. (No 372). Remove lower section of dash to access relays. |
| Current Draw | 6.2 amps. To test from fuel pump relay, remove lower section of drivers side dash and remove fuel pump relay. Place ammeter between two large female terminals (30 & 87) of relay socket and switch ignition on. To test from fuel pump fuse, remove access cover on side of drivers side of dash. Remove fuse No. 28 and place ammeter between two female terminals and switch ignition on. |
| System Pressure | 350 - 400 kpa. |
| Injector Resistance | 13.5 - 15.5 ohms. |
| Filter | Located below vehicle near drivers side rear door area. |
| **VW Polo 1992** | |
| Fuel Pump Relay | The fuel pump relay is located in the right hand side of the plenum chamber below the windscreen. To activate the fuel pump, supply power to the fuel pump fuse in the fuse box, located on the drivers side below the steering wheel, with an ammeter or bridge terminal 30, Red wire to terminal 87, Black wire in the relay with an ammeter. |
| **VW Polo 2004** | |
| Fuel System | Sequential multipoint fuel injection. Single pump located in fuel tank. Access by lifting drivers side base of rear seat and remove rubber grommet in floor pan. Voltage supply: Blue wire with white trace. Earth: Brown wire. |
| Fuel Pump Relay | Located below drivers side dash. Remove access panel beside steering column. Relay No. 167. |
| Current Draw | 4.9 amps. Remove fuel pump relay. Place ammeter between two large female terminals (30 & 87) of relay socket and switch ignition on. |
| System Pressure | 300 kpa (ignition on). |
| Injector Resistance | 12 - 17 ohms. |
| Filter | Located below drivers side rear of vehicle. |

| VW Touareg V6 2003 | |
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| Fuel System | Sequential multi point fuel injection. Main pump and jet pump located in fuel tank. Access by lifting base of passenger side rear seat and lifting carpet to access cover in floor pan. Voltage supply: Red wire with yellow trace. Earth: Brown wire. |
| Fuel Pump Relay | 2 relays (jet pump and main) located in engine compartment fuse/relay box. |
| Current Draw | 7 amps. Remove main fuel pump relay. Place ammeter between two large female terminals of relay socket. |
| System Pressure | 400 kpa. |
| Injector Resistance | N/A |
| Filter | Paper element type filter located in fuel tank above fuel pump assembly. |