



DIAGNOSTIC TIPS

MAKE/MODEL	FAULT	DIAGNOSIS/SOLUTION
ALFA ROMEO		
Alfa 33 1.5ltr - mid 1984 to late 1987	No start - No spark - No Inj Pulse	Check for connecting plug and terminals for poor connection on ignition module - known to corrode
Alfa Sprint 1.5ltr - 1982 - early 1988	No start - No spark - No Inj Pulse	Check for connecting plug and terminals for poor connection on ignition module - known to corrode
Alfetta GTV 2ltr - early models 1977 - 86	Engine won't crank or slow cranking RPM.	Battery Earth strap in located in boot - subject to corrosion at mounting point - re-position earth strap
Alfetta GTV V6 - early models 1984 - 88	Fuel Pump not working	Check fuel cut off, inertia switch possible open circuit - fitted to off side, inside guard - push reset button and retest power supply to fuel pump.
AUDI		
5 Cyl Turbo 80's Models	Won't Start	Check Camshaft Position Sensor inside distributor, Hall sensor type.
V6 Models	Won't Start	Check camshaft belt hasn't slipped, Camshaft Position sensor out of phase won't send signal at correct time.
BMW		
318i - 3 Series	Won't start - No Injector Pulse	Generally faulty immobiliser. Turn the key between the off and start position approximately ten times, vehicle should start on eleventh attempt.
318i 1996 - up	No crank, cranks after by-passing starter motor relay	Immobiliser is usually at fault - attempt to unlock - lock the vehicle. If problem not rectified may need appropriate test equipment to reconfigure immobiliser system.
5 - 7 Series 80's models	Running Rich after Fitting Starter Motor Relay.	Where a starter solenoid relay has been retro-fitted, feedback from the ignition circuit may continuously supply Pin 4 (Crank Signal) causing the engine to run excessively rich. Disconnecting the relay during engine run will improve engine operation (use this method as a quick test only). To confirm conduct the following test - Ignition in on position measure voltage at (Pin 4) = 0 volts - Engine running (Pin 4) = 0 volts - Engine cranking (Pin 4) = approx 10 volts. Pin 4 detects a signal from the starter under cranking and enriches the mixture for start up, colder engine = greater cranking enrichment.

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535i-is - late 1988 - mid 1993	Won't Start	Engine turnover - No spark, fuel pump or injector pulse - thermo fan working erratically - generally Engine Control Module.
ALL	Strong fuel smell - excessive fuel consumption	Generally caused by a ruptured fuel pressure regulator/diaphragm, forcing fuel into the vacuum hose additionally engine vacuum drawing fuel from regulator. Locate the regulator, located on the fuel rail - remove vacuum hose & check for fuel contamination. - Replace Regulator
E34 1994 V8	Engine Won't Rev Past 4000 RPM	Trigger wheel loose on harmonic balancer as a result of deteriorated balancer cushion rubber. Renew harmonic balancer
Late Models	Faulty Coil Earth Damaging ECU - after replacement of ECU driver & all coils.	COIL EARTH FAULTY - BLOWN RESISTOR IN EARTH CIRCUIT- causes a high voltage jump across primary contacts and damages the ECU to an unrepairable state
X5 3.0ltr 6cyl	Misfire in Cylinder 3	Check Engine Coolant Level
DAEWOO		
Type 2 ENGINE	Won't Start, vehicle has spark/fuel & injector pulse	Poor service history consequentially hydraulic lifters building up pressure holding valves off their seats.
Type 2 ENGINE	Engine Missing - Has Spark and Injector Pulse	Poor service history poor lubrication to camshaft causing excessive cam-lobe wear, generally missfire identified toward the rear of engine Cyl 3 or Cyl 4.
1.5ltr Manual - Late 1994- Late 95	Won't Start	Check for damage to Speed Sensor wiring at the clutch cable bracket - known to rub through causing No 1 fuse for Engine Control Module to blow.
Cieloo 1.5ltr - Late1995 - late 1997	Won't Start	Check fuel pump fuse - continues to blow fuses - known to have wiring problem at the front of the fuel tank & the underbody of the vehicle, wiring to pump circuit grounded.
Cieloo 1.5ltr - 1994-95	Won't start after head service	Check correct fitment of coolant sensor plug & distributor plug, plugs are the same type and can be incorrectly fitted - swap plugs around.
Matiz 2000	No Injector Pulse or Spark	Check for oil leak in distributor - oil fouls optical sensor
Matiz 2000	No Injector Pulse or Spark	Internal components of distributor heavily corroded causing crank sensor (optical sensor) failure. Cause: Top radiator hose coolant leak, radiator hose routed on top of distributor.

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DAIHATSU		
Terios - 1999	No fuel pump operation	Inertia Switch Faulty - Mounted on Handbrake Lever, Remove and Renew Inertia Switch
FORD		
EA CFI	Cylinder 5 missing after fitting new Distributor	MPI distributor fitted instead of CFI distributor, they are different
EA-ED MPFI	Poor acceleration, hesitation and backfire	Notably after removing and refitting intake manifold. Cause: Possibly incorrect intake gasket fitted i.e. CFI engine, no injector provision allowed in CFI gasket. Quick Test: Remove injectors and visually inspect whether injector port is free from obstruction.
Escape	EGR FAULT CODE P0402	The DPFE sensor has 2 connecting hoses, check for any signs of water leakage. If there is any sign of leakage sensor needs to be replaced. You will find it near the EGR valve
AU	Service Spanner Indicator Light Reset	Turn ignition on - Press trip meter reset button for 12 seconds - You should hear a beep & the light should go out.
AU	Fuel Pump inoperative	Check fuel pump wiring harness in spare wheel well as it corrodes causing an open circuit - Repair/Replace
AU	Code 2482	Refers to Instrument Cluster Fault, but, fault code caused by Ignition Key Reader Failure. Don't know how this happens!
AU	Fuel pressure regulator failure due to contamination from accumulated fuel rail debris causing excessive fuel pressure.	Remove fuel pressure regulator and service fuel rail as required. Renew fuel pressure regulator. Replace fuel filter.
AU V8	Rough Idle - Misfires at Idle - Revs OK - Spark Good	Outer ring on crankshaft pulley moving - repair/replace.
BA	ABS light on - Speedo not working - Transmission shifting erratically	Check collar on the rear axle as it is known to move. If it has moved, the distance between the ABS sensor & reductor will be increased, causing the faults

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BA	No power supply present at fuel pump	Inertia Switch Actuated Interrupting Power Supply to Fuel Pump Circuit. Reset Inertia Switch Located in Near Side Front Kick Panel Closest to the Firewall. Check for Power Supply to Fuel Pump After Reset.
BA	P0121,P0221 TPS Codes after replacing intake manifold gasket	Check for broken or poor TPS earth. Ensure MAP & TPS sensor connected into their correct electrical connectors, plugs are ambidextrous.
BA - 06 LPG - T-Bar Auto Utes	LPG & Fuel Injection fuse continuing to blow	Check wiring harness behind cylinder head - look for chaffed harness, wires grounding on cylinder head Remedy: replace/repair harness.
Capri SA 1.6ltr - Late 1989 - Early 1992	Won't Start	Check fuel pump is operating - known to have issues with Inertia fuel cut out switch, located in spare wheel well, can be activated after hitting a bump - Push reset button
EA - ED 6cyl	Intermittent Misfire	Check coil for damage - coil insulation usually broken under mounting bracket - allowing high voltage leak to earth. Check also high tension leads or corroded distributor internals as these are also known to cause coil failure.
EA - EL 6cyl	Runs When Cranking Only - Won't Start	Check Earth & plug terminals at ignition module on distributor, check terminals for correct alignment.
EA 6cyl	Won't Start - Fuel Pump fuse blows continually	Check fuel pump wiring under mounted on O/S rear inner guard - known to come loose and foul on exhaust burning wiring insulation and grounding supply line..
EA 6cyl	Won't Start - backfiring	Check distributor securing clamp for crack or damage - known to have issues
EA 6cyl	Won't Start - Has Spark, Inj Pulse lacking fuel pressure	Known issues with fuel pump pick up tube splitting - pump working - no fuel flow, Depending on where is deterioration split has occurred will determine when problem is prevelant in relation to fuel level.
EA-EF	Won't turnover - No Cranking RPM	Check for faulty Smart Lock module. Hold key to cranking position, firmly tap the dash panel on the left side of the steering column, if engine turns over, possible faulty Smart Lock module.
EA-EL MPI	Lack of acceleration	Check if inrake manifold has been removed and refitted. If a CFI manifold gasket has been fitted instead of an MPI gasket, gasket will restrict injector nozzle ports causing lean engine operation..
EB / AU / BA All with Smart Lock	Won't start, Smart Lock light on	Possible Interior light blown - replace - vehicle should start.

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EB Series II	Stalls - Runs only when Cranking	Check fuel pump relay failure - test and replace if required
EF	Has Spark Has Injection, But, No Start	Disconnect Cam Angle Sensor, Crank Engine, Engine Starts. Remove and Replace Cam Sensor
EF	Service Spanner Light Reset	Turn ignition on - Press trip meter reset button for 10 seconds - You should hear a beep & the light should go out.
EF	Engine won't idle	Common idle circuit failure in ECU and or idle air control valve
EF	Won't Start - No spark	Check for Crank Angle Sensor damage - Known problem with harmonic balancer coming loose and damaging crank sensor.
EF	Won't Start - Fuel pump inoperative	Check for spark & injector pulse - known issues with fuel pump earth corroding - clean & secure firmly - located in spare wheel well.
EF	Misfiring	Intake manifold leaking, check all bolts, rear intake manifold bolts particularly.
EF	Missing on Two Cyl's	Generally failure of coil driver in ECU - check and replace ECU as required
EF	Rough Idle - Misfires at Idle - Revs OK - Spark Good	Outer ring on crankshaft pulley moving - repair/replace.
EF	Injection Loss to One Cyl	Check wiring to injector - known to give problems - if OK Engine Control Module maybe faulty.
EF	Unable to program BCM	Faulty Central Locking Servo-Motor. Replaced and successfully reprogrammed.
Fairlane NC - Mid 1991 - Early 1995	Interior Fan Won't Turn off	Known problem with climate control ECU - test and replace if required
Laser KC - KE	Running Rich after ECU Replaced due to water damage from heater core	Assuming heater core has been replaced, the cause of the damage. Check connector plugs at ECU for corrosion, clean all contacts and retest.
Laser KC	Stalling when put in gear	Revs in neutral - HEI distributor - generally, faulty ignition module - too much dwell angle
Laser KN/KQ 1.6ltr	Poor performance - sluggish	Disconnect Air Flow Meter, if performance improves possibly faulty.
Laser KN/KQ 1.6ltr	Won't start after replacing timing belt	Plate for crank sensor can be fitted 2 ways, if fitted incorrectly, vehicle won't run.
Probe ST/SU - 1995	Erratic idling - stalling	Possibly faulty TPS (throttle position sensor) - replace

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Telstar AX/AY V6	Cutting out when hot / won't start	Check Crank sensor, if ok, distributors internal coil most likely problem. Recommend replacing both Distributor & leads, Note: poor leads will damage new components prematurely.
Transit 03 Diesel	Won't turnover - Ignition lights not working	Locate the negative battery lead under the drivers seat. It has an inbuilt fusible link, this fuse is blown. Replace the lead to repair the fuse.
Taurus DN 3ltr - before early 1996	Stalling - Hard to Start	Check Idle Air Control Valve commonly poor reaction causing delayed idle control, generally idle air control valve stick. Test and replace if required.
XF All - EST. Carburetted Engine	Won't start	Check for water damage to EST system - mounted passenger side kick panel. Water entry caused by poor ariel lead grommet seal causing water leak into cabin.
XF All - EST. Carburetted Engine	Won't start	Check Hall sensor - check it is receiving power - check also wiring between EST Engine Control Module and distributor.
XF All - EST. Carburetted Engine	Won't start	Check power supply to EST - earths, corroded wiring & plugs - Check also if battery has been replaced - disconnected, ensure earth wires are all connected - one earth wire will reach positive terminal of the battery.
XF All	Stalling - restarts after 5 minutes	Check for faulty ignition (TFI) module on the distributor
XG 4ltr Van-Ute	Stalls & Won't restart	Generally when warming up - possible low spark output caused by faulty ignition coil.

MAKE/MODEL	FAULT	DIAGNOSIS/SOLUTION
AU I/II/III 6cyl 4.0L	Instrument Cluster Problems	<p>The Ford AU Series (6cyl 4.0L) is susceptible to problems affecting the instrument cluster. Some of the symptoms include: Gauges on instrument cluster flickering, especially the speedometer and temperature gauge. Digital display on instrument cluster becomes unstable for example; large change in kilometre reading or odd characters and or symbols. Initial response is to condemn the instrument cluster as faulty, but, generally there are two common causes of these problems. Firstly, a faulty ignition coil can cause back feed (inductance) through the ECU consequently disrupting instrument cluster operation i.e. flickering gauges. Although engine performance is unaffected it can be assumed i.e. no missfire for example, assumingly the coil pack is O.K. Secondly, alternator phase shift introducing a corrupted (Noisy) signal the vehicles power supply can also affect instrument cluster operation, notably this problem affects the digital display on the instrument cluster, however, the alternator warning lamp indicates no apparent malfunction and remains off. If any faults discussed are timely rectified, high probability instrument cluster will return to normal operational state. Prolonging rectification of causes generally results to terminal damage beyond repair and replacement remains the only option.</p>
AU II	Ignition off = Horn ok - Radio ok - Air Bag etc ok Ignition on = No Horn - Radio - Air Bag light remains on	Damaged section on cruise control circuit board - loosing earth
AU II V/8	Loud Squealing Sound from Engine Area - Intermittent Misfire	The cam sensor driveshaft lack of lubrication begins to vibrates resulting to noise and intermittent misfire.
BA	Poor acceleration when cold - feels like accelerator pump malfunction on Carburettor Car.	Drive belt idler pulley collapses causing excessive heat transfer into retaining bracket. Signal wires from cam sensor rest on the bracket and eventually melt and burn out. However, conducting a self diagnostic test, cam sensor code is evident and upon inspection all is revealed.
Falcon - Fairlane - LTD XF-ZL-FE, EFI cars	Stalling when lights or stop lights operated	Known earth issues for fuel pump - check ECU earth - check earth strap, near boot lock striker, is secure
Bronco 4.9ltr EFI	Erratic Idle - Stalling - Won't Start	Test hrottle position sensor, replace if required.

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HOLDEN		
Apollo (Carby Models)	Starts won't run	Check alternator - if alternator is faulty fuel pump won't work - fuel pump receives power from alternator
Astra LD	Won't start after head service	Coolant sensor & ignition module plugs are identical, confirm they are correctly fitted to the right sensors.
Astra TR	Poor Performance - Check Engine Light on - Won't Rev over 4000RPM	After fitting New Genuine Cam Angle Sensor from dealer - older style supplied - new version needed - ensure you are supplied Part No 90458252
Astra - TS 1.8 Itr	No Start - Loosing ignition/injection - many fault codes.	Pink Relay under bonnet - operates, but faulty contacts.
Astra TS 02 1.8L	Stalling When Hot	Blocked hose under throttle body - causing upper hose near rocker cover to collapse (suck in) when hose gets hot.
Astra TS	Air Mass Meter code on - after being replaced.	Earth via ECU has been lost. Splice into yellow wire on Air Mass Meter & run to earth.
Astra TS 01	Coil has no spark	Check soldered joints on coil pack plug
Astra TS 01	Warning light on (Spanner Symbol)	Usually a result of a dirty throttle body - causing the "Fly by Wire" fault code. Spraying with a suitable solvent should fix it. BE CAREFUL TO AVOID SOLVENT CONTACT WITH SENSOR.
Astra TS 01	Limp mode - won't shift from 3rd - warning lights on	Check wiring insulation on cam angle sensor - wires shorting - rubbed through.
Astra TS 1998 on	Vehicle starts & runs but stalls shortly after	Reset Body Control Module - Set ignition key to on - disconnect battery for 10minutes - should reset and run OK
Astra TS 4 Cyl	Intermittent Engine Cut Out	Check fuel pump relay fitted under battery carrier, purple in colour. Terminal corrosion problems - cuts out fuel pump out and injectors.
Astra TS 4 Cyl	Poor Idle and automatic transmission erratic shifting, throttle body and TPS fault code stored	Ground circuit for throttle body assembly open circuited, earthed through ECU. For testing purposes bypass earth wire and apply to ground. Check for improved idle quality and automatic transmission.

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Barina SB Early 1994	Erratic Motor Surging - Stalling	Generally while decelerating and coming to a stop - Check Engine light on - EGR valve fault code stored. EGR assembly malfunction is common.
Barina SB Early 1994	Erratic Idle After Starting Engine	Check ECU - known issues
Barina XC 2004	Blinker Indicator Dash light stays on and flattens battery	NOT BODY CONTROL MODULE - Hidden - Faulty flasher unit - located near battery
Barina 10/06	Central Door Locking Indicator Flash. When doors locked by remote the indicators would not flash to indicate car locked. They would flash ok when car unlocked.	Vehicle had been in frontal collision. Checked inputs to Remote Door Lock receiver (has a little aerial plugged into the side of it) mounted in centre console near H/ brake – all ok. Removed control unit & checked for damage – none present. Fitted new control unit and needed programming. Retest – all ok.
Rodeo - 03 3.5ltr V6	Diagnostic code light on. Code = Bank 1 too rich. Renewed O2 sensor & checked Air Mass Meter & no air leaks	There are two O2 sensor harness connections near the bell housing, miss - connection between left & right sensors - left connected to right - fit to correct plugs.
Rodeo TF V6	Hard to start cold	Engine cranking speed OK, but, cranking voltage below 10V interrupting ECU operation due to insufficient power supply. Hard start resultant of no injection pulse or no spark or failure of both. Possible common cause faulty battery.
Vectra - 01 2.2ltr Auto	Vehicle shifts to neutral while stationary (idling) - Vehicle rolls back on hills	Stop Lights Blown - change globes
Vectra - 01 4cyl	Lights dull - Battery goes flat	Plenum chamber drains blocked - Water fills chamber and runs into wiring harness on near side - corroding & bridging plug terminals.
Vectra JS	Poor Engine Running	Ensure PCV hoses are serviceable and haven't deteriorated from oil contamination
VK C/dore	Severe Pinging/Detonation	Check EGR valve - inspect valve & ports - clean - if no improvement replace EGR
VL C/dore 6Cyl	Missing after replacing crank angle sensor	Confirm chopper plate is fitted correctly, can be fitted upside down as well as right side up.
VL C/dore 6Cyl	Breaking down under Acceleration - Idles well - Fuel pump noisy	Check Fuel level in tank isn't too low - regardless of what fuel gauge reads - fill fuel tank to at least 1/2 - should temporarily solve problem.

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VL C/dore 6Cyl	Stalling Occassionally	Generally Crank Angle Sensor if Code21 and Code 11 stored or if Code 11 Ignition Signal, possibly connector plug fault at power transistor and or ignition coil. Trnsistor and Coil connectors insufficient tension causing poor connection, repair as required.
VL C/dore 6Cyl Auto	Surging While Driving - Injector decel-shutdown occurring.	Check contact points in Throttle Position Switch. Check transmission Electronic Control Module, known to cause TPS backfeed signal unplug the transmission module - if fault rectified, replace module - if fault still present further test throttle position switch circuit.
VL C/dore 6Cyl	Won't Start - No Injector Pulse	Generally reverse polarity relay (Changeover type, this relay supplies Power to Injectors and ECU Keep Alive Power) diode malfunction causing relay to activate an open circuit power to injectors
VL C/dore 6Cyl	Won't Start - Dull Injector Pulse	Check power supply to Injectors by loading power supply circuit and measure voltage drop to injectors. Voltage drop generally caused by poor electrical connection at injector harness plug located under intake manifold.
VL C/dore 6Cyl	Won't Start - No Injector Pulse	Generally reverse polarity relay (Changeover type, this relay supplies Power to Injectors and ECU Keep Alive Power) diode malfunction causing relay to activate an open circuit power to injectors
VN C/dore V8	Starts only when cranking - Won't Run	Check EFI relay - known issues - replace
VN C/dore All	Won't Start - Turnover	Check for no spark & no tach signal, if neither present, generally Crank Angle Sensor
VP - VR	Erratic Speedo operation	Check for short in reverse lights - causes fuse 12W to blow.
VP - VR V6 & V8	Engine Slow to Start.	Check fuel pump operation - Check for dirty/corroded fuel pump connector at front of fuel tank, under the vehicle.
VR - C/dore V6	Limp Mode - Check Light on - after changing transmission	Check correct transmission has been fitted - 1994 & 1995 transmissions are not interchangeable. Check red sticker on top of bell housing - Prefixes of 5H = 1995, 4H = 1994

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VR - C/dore V8	No Spark	Check DFI module on the passenger side inner guard. Crank engine while twisting wiring harness - vehicle starts.
VR - VS C/dore	No Injector Pulse - Has Fuel & Spark	Check EFI earth wire behind drivers side kick panel
VR - VT C/dore	Engine fuse continually blowing	Check wiring harness behind throttle body for rub through damage
VR - C/dore V6 & V8	Won't Start - Alarm Light Continually Flashing	Generally caused by a fault in the theft deterrent system - to clear system, turn ignition on for 45 minutes - should reset and start.
VS - C/dore - with Ecotec engine	No Spark	Check for loose connection on DFI module, under the coil pack, ensure securing bolt on module connector ensure tight.
VS - C/dore	Stalls on deceleration	Check fuel pump fuse in holder - known to come loose in holder - bend tags to make a snug fit
VS - VT - C/dore V6	No Injector pulse or Spark - Fuel pump working and pressure OK.	Check for faulty EFI control relay
VS - VT - C/dore ALL	Won't Turnover - Won't Start	Generally Theft Deterrent Device fault - Turn ignition on and leave for 2hrs to reset - Some VS cars will reset after 45 minutes, as per previous models, Most importantly, the vehicle will be reset after Red Alarm light goes out.
VS C/dore	Running rich due to incorrect Oxy sensor reading	Ensure earths for sensors are good. Check voltage reading on ECU at pins D14 & D16, voltage must be no more than 0.1 volts
VT C/dore All	Won't Turnover - No Power Windows - No Centre Console Lights	Check PCM connector - known issues with loose connection - contaminated terminals - clean and secure for tight fit.
VT C/dore All	Motor Starts but Stalls	Generally faulty Body Control Module
VT C/dore & later	Multiple dash lights coming on	ABS/Traction control module usually at fault, located on ABS pump. - replace.
VT C/dore & later GEN3	Premature Oxy Sensor Failure	Low kilometre vehicles have a tendency to contaminate oxygen sensor gas flow ports. Upon replacement carefully prise open flow ports moderately to limit soot contamination.
VX C/dore	Won't Turnover - First try BCM reset	Remove Fuse 31 - Pump Brake Pedal a few times - Re-fit fuse 31 - Attempt to start the engine - Engine Starts - (BCM Reset, OK)

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VZ C/Dore	SERVICE LIGHT RESET – PROCEDURE	<ol style="list-style-type: none"> 1. Press and Hold Up/Down Arrows and turn ignition on 2. Continue to Hold Up/Down Arrows for a further 3 seconds 3. When display changes , release Up/Down button and Hold Set button for 3 seconds until beep has sounded 4. Service light reset complete.
VZ C/dore	Starter stays on after start	Check if starter relay energised after engine has started. Engine ECU possibly faulty as control of starter relay managed by ECU.
VZ C/dore	Turns over but no start	Check for faulty EFI control relay or loose connection
Commodore VT VX	Fuel pump wiring burnout	Wiring connector to fuel pump assembly deteriorated causing excessive voltage dropt to pump. Generally required to replace pump harness section (approx. 500mm long).
HONDA		
Odyssey -2000 - V-Tech engine	Throttle body removed - Vehicle starts but fails to continue running	Incorrectly connected throttle body electrical plugs. Both electrical connectors are identical therefore are ambidextrous, hence, introduced engine running problem. Remove and reconnect electrical plugs correctly
Odyssey	EG Valve	Poor engine idle, air leak caused by faulty EGR Valve. Quick test: remove and blank off temporarily, start engine and check idle quality.
HYUNDAI		
Excel - Injected only	Turns over but no start	Check for faulty connection at crank angle sensor. Note: ECU faults are also common
Excel - S Coupe All	Check Engine light on - No Faults	Old fault codes in ECU, usually no actual fault - disconnect battery for 30 seconds - light should clear
Lantra - Sonata	Stalling - Stalling at idle - Motor Check light may be on	Generally Oxygen Sensor problem - Replace
Grandeur	Poor Idle and acceleration	No fault codes

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JAGUAR		
XJ6 - 1987	Motor Hunting badly between 1100 & 1300 RPM	Check Throttle Position Sensor - Known issues - replace
XJ40 - 1988-1992	Cranks No Start or intermittent start	Crank Angle Sensor wiring connector, terminal regresses into connector intermittently
XJ8 12/98	R/H Indicator would intermittently flash by itself while driving	Indicator circuit is not like a normal car. The flasher module has two wires coming across to the indicator switch on steering column, one wire for r/h side & one wire for l/h side. The switch earths out one of these depending which side is selected. Short in the r/h indicator wiring next to the passenger air bag module just above centre console. Repair wiring and as required.
JEEP		
Cherokee	Won't Start - No Dash Lights and No Communication with Scanner	Unplug crank sensor and check if dash lights come on. Also check with scanner, whether communication reinstated with engine ECU.
Cherokee	Starts - Runs - then stops - immobilised	We have had feedback advising interference from mobile phones or TV towers can activate the immobiliser system. Suggest disconnecting the battery for at least 7 minutes.
Cherokee	No illumination of Ignition warning lights. No Engine Start	Disconnect crank angle sensor, if ignition warning lights illuminate possible cause faulty crank angle sensor.
Cherokee 1996 on	Won't Start - No Injector Signal - Lights & Fuses OK	Check Crank Angle sensor for fault
Laredo - Grande 1997	Motor won't start - No Power to Injectors or Coils	Check for short in Oxygen sensor - known to blow 20amp fuse for Automatic Shut Down.
KIA		
Carnival V6	New crank angle sensor fitted - Vehicle will barely run or not start	There are two types of crank angle sensors used on these vehicles - wrong one fitted.
Pregio 03 Diesel	Stalls - Lacks Power	Check rubber fuel hose between injector pump and fuel filter, known to perish, allowing air to enter system.

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LAND ROVER		
Discovery 1996	Fuel Pump Cuts in & out	Check fuel pump cut off inertia switch - on firewall, behind the windscreen washer bottle - reset by pushing button on the unit
Freelander Diesel	Engine in decel. Shutdown mode	Stop lamps not working - interrupting CAN system. Repaired as required.
MAZDA		
121 DA - 1.3ltr	Running Rough - Poor Power after engine wash or rain	Water sits on air filter cover and runs down securing bolt onto the Hot Film in the air flow meter. Carefully dry and retest.
121 DA - 1.3ltr	Engine Stalls intermittently - TBI System	Engine stalls on deceleration primarily as approaching to stop. Common cause faulty TBI injector. Generally after servicing injector problem ceases for a menial period, notably 3 - 4 weeks.
323 BJ 1.6ltr	Won't start after replacing timing belt	Confirm chopper plate is fitted correctly, can be fitted upside down.
323 most	Running Rich after ECU Replaced due to water damage from heater core	Assuming heater core has been replace (generally cause of damage). Check connector plugs to ECU for corrosion, service all contacts.
626 2ltr	Stalling - Eratic Idle - Especially when selecting Reverse	Ignition Coil and Ignition Module know to fail, test to confirm.
626 2.5ltr V6	Won't start or cutting out when hot	Distributors internal coil most likely problem. Recommend replacing both Distributor & leads, unserviceable leads will damage new components prematurely.
Tribute 2004 V6	Engine Stalls at Idle - Engine Misfire Present	ECU Harness , multiple fractured wires near ECU, due to cable rigidity, repair harness as required and retest engine operation.
Tribute 2001 V6	Motor stalls continually	Check Air Flow Meter, common fault.
Tribute 2001 V6	Engine Missfire on Acceleration	Ignition coil mlafunction is common, wise to replace all 6 coils if coil failure confirmed.
MERCEDES		
230E 2.4ltr mid 1981 - 93	Eratic Fuel Pump Operation	Check for corroded terminals on fuel pump relay - located inside the OS front guard. Common problem

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MITSUBISHI		
ALL 1989 - 1995	Erratic Idle - Main Relay Chatter.	Generally faulty ECU, test ECU to confirm.
Magna TE & later	Engine starts but won't run	If vehicle jump starts - replace battery
Magna TE & later	TPS read fail lodged - Won't start - No injector pulse	Generally the key reader, check for open circuit at the 2 pin plug - hard wire to fix.
Magna TN 2.6ltr	Fuel Pump inoperative	Check first for corroded/loose fuel pump terminals near the fuel tank - before replacing fuel pump
Magna TN 2.6ltr EFI	Black Smoke on Start up - Running very Rough	Check Coolant Temperature Sensor for loose/poor connection - can make injectors run for an extended time, causing severe over fueling
Magna TN - TP	Engine Control Module Damaged	Before replacing ECU. Check alternator charge rate to confirm whether in sound operating condition.
Magna TN - TP 2.6ltr EFI	Won't Start - Flooding - Good Spark	Generally a faulty Oxygen Sensor - replace.
Magna TP -TR	No Spark - Won't Start	Check distributor connection terminals for corrosion - rubber boot known to perish. Distributors Hall trigger sensor also known to malfunction.
Magna TR & later V6 & 4cyl	Cutting out at idle	Idle speed motor most likely cause. Internal windings can be damaged due to coolant entry into motor from coolant heated auxiliary air valve. Check resistance at 6 pin connector. You will find 3pins in 2 rows, check between centre pin and outside pin on one row respectively the next terminal on the same row. Repeat for the second row therefore recoding 4 x 300hm values. Replace motor if readings are different. ECU usually damaged by faulty motor. REPAIR WATER LEAK BEFORE FITTING NEW MOTOR OR THE ECU CAN BE DAMAGED.

MAKE/MODEL	FAULT	DIAGNOSIS/SOLUTION
Magna TS 4Cyl & V6	Immobiliser Bypass	Remove engine ECU and retaining bracket. Remove immobiliser control module (Located behind control ECU bracket) Immobiliser Control Module. Green & Green/Red trace wires – Power transistor immobilisation control. Cut wires from control module plug and join. White/Green & White/Red wires – Fuel Pump Control Relay immobilisation control. Cut wires from control module plug and join. Note: Starter motor control is also managed by immobilisation module
Outlander	Radiator cooling fan malfunction	Common Fault: Control module failure.
Pajero 3.5ltr DOHC	Miss in engine - a coil not working	Generally caused by timing belt jumping a tooth or incorrect fitment of new belt
NISSAN		
Micra	A/C Intermittent	Unable to fault car in workshop but when driven on rough roads a/c would cut in/out. Checked wiring under bonnet, found harness connector not fitted correctly at firewall, would make poor connection on rough roads. Refit harness connector at firewall and make sure locked into position.
Pintara R31 2.0ltr	Erratic Fuel Pump Operation	Check fuel pump control function. ECU manages fuel pump current ECU commonly fails.
Pintara R31	Hunting at Idle or Fuel pump not Working	Engine control module damaged by excessive voltage being feed into it from a failing idle switch contact circuit, causing the fuel pumps earth, (located in Engine control module) to overload the module.
Pulsar N13	Engine Over Fuelling - Won't Start	Generally faulty Engine Control Module - keeps injectors open when turned to ignition
Pulsar N13	Stops when Hot - Goes Again when Cooled down	Generally ECU problem - replace ECU
Pulsar N14	Cuts out while driving after a Short time	Generally ECU problem - test by gently tapping ECU engine may stall, possible ECU fault.
Pulsar N15	Engine stalls on decal, over fuelling.	Possibly Intermittent coolant sensor open circuit. Remove and Renew Coolant Sensor.

MAKE/MODEL	FAULT	DIAGNOSIS/SOLUTION
Pulsar N16 - 03 1.8ltr	Low power but not misfiring (similar to blocked exhaust) Fuel pump OK - Air Mass Meter OK - Vacuum OK	Common cause Stop Lights Blown - test and replace globes as required.
X-Trail 4 Cyl	Stalling and poor idle after servicing throttle body.	If throttle body has been forcefully opened during service, throttle body reset is required preferably by diagnostic/scanning equipment. Manual procedure is also available to execute reset.
PEUGEOT		
406	Cooling fans running on low speed all the time with ignition on and switches to high speed when engine started.	Check inputs to cooling fan control unit mounted under L/H inner guard near headlight. Traced temperature sensor wiring to two large round multi-plug connectors under battery carrier. Corroded terminals causing short circuit between power supply and temp sensor circuit. Repaired connector plug as required tested operation on completion.
SUBARU		
Liberty 2.2ltr	Engine missing at idle	Generally faulty ignition relay, located under RHS of dash, close to the top of the firewall. Check also for codes 24 & 35 being lodged.
Liberty 2.2ltr	Engine cuts out intermittently	ECU fault codes stored are not reflected to any specification data for this vehicle. Common cause with ECU, try another ECU vehicle and retest.
Liberty 2.5ltr 99 on	Intermittent starting problem	Terminals on crank angle sensor can corrode/become loose
Outback 2.5ltr 99 on	Intermittent starting problem	Terminals on crank angle sensor can corrode/become loose
SUZUKI		
Jimny	Poor vehicle acceleration and excessive backfire	Replaced map sensor due to fault code, problem was not solved. Cause: Faulty crank angle sensor signal caused excessive back fire, positive manifold pressure skewed map sensor signal, hence reason for map sensor fault code.
GTI 1996	Running Rough - Over fueling - Backfiring	Generally Throttle Position Sensor fault - replace

MAKE/MODEL	FAULT	DIAGNOSIS/SOLUTION
TOYOTA		
All	Map Sensor Fault Code	Check Toyota MAP Sensor Vacuum Supply - Note: It's wise to remove substitute vacuum source with an alternative, i.e. fuel pressure regulator prior to condemning the MAP sensor. Check Supply Voltage, Ground and Signal.
Camry 1992 on	AM1 & AM2 fuses blown in the fuse box under the bonnet	Check for blown/melted noise suppressor shorting in distributor
Camry (carby models)	Starts won't run	Check alternator - if alternator is faulty fuel pump won't work - fuel pump receives power supply from alternator
Celica 1992 on	AM1 & AM2 fuses blown in the fuse box under the bonnet	Check for blown/melted noise suppressor shorting in distributor
Corolla 1997 on	Won't Start - Security Light Flashing - Code reader in glove box not operating	Reset of ECU needed - Locate fuse box under the bonnet. Remove fuse for EFI - turn on ignition, re-fit fuse while ignition on - vehicle should start
Kluger AWD - 03 3.3ltr V6	Diagnostic light on - surging between 2000 & 3000 RPM - many codes displayed	In Fuse Box - EFI No 2 fuse possibly blown - 10amp
Prado V6	Will Not Rev Past 3100 RPM	Recently Renewed Timing Gear and Belt. After 3-4 weeks of testing, replaced timing Gear, with second hand unit, faulty new timing gear purchased from dealer.
Prado - 03 V6	Intermittent temperature gauge operation	Gauge wire behind dash crimped - repair break
Rav 4 - 02	Premature transmission failure.	A problem with the original ECU (Toyota number 89661-42701) has been known to cause premature transmission failure. Revised ECU with Toyota no. 89661-42702.
Rav 4 - 1994	Engine stalls intermittently	Coolant sensor intermittently open circuiting - Renew Coolant Sensor
Rav 4 - 2000	Diagnostic code light flashes rapidly - no code - intermittent bad misfire - engine fans coming on prematurely.	Even though good spark from coil over plugs, one or more coils has intermittent feedback fault. Thanks to Allens Auto Electrical - Nowra for this tip.
RAV 4 4Cyl	Engine stalls and hesitates on acceleration	Excessive RF interference from ignition coil - 1 coil per cylinder fitted - Replace faulty coil
Surf Diesel	Won't start	Check crank sensor plug half way along on passenger side of engine block, known to fill with oil causing a fault code.

MAKE/MODEL	FAULT	DIAGNOSIS/SOLUTION
Tarago	Map Sensor Fault Code Hesitating and stalling intermittently.	Vacuum supply line is originally fitted with a restrictor valve which is contaminated by oil residue during its service life. Oil contamination restricts vacuum flow causing hesitating and stalling intermittently. Remove valve and fit vacuum line directly to the MAP sensor. If problem rectified renew the restrictor valve and retest.
Tarago all 90's models	TPS fault code lodged	Wiring for TPS can break in the area where it runs near the seat.
RAV 4 4Cyl	Engine stalls and hesitates on acceleration	Excessive RF interference from ignition coil - 1 coil per cylinder fitted - Replace faulty coil.
Surf Diesel	Won't start	Check crank sensor plug half way along on passenger side of engine block, they are known to fill with oil causing a fault code.
Tarago	Map Sensor Fault Code	Hesitating and stalling intermittently. Vacuum supply line is originally fitted with a restrictor valve which is contaminated by oil residue during its service life. Oil contamination restricts vacuum flow causing hesitating and stalling intermittently. Remove valve and fit vacuum line directly to the MAP sensor. If problem rectified renew the restrictor valve as set out by manufacturers recommendations.
Tarago all 90's models	TPS fault code lodged	Wiring for TPS can break in the area where it runs near the seat.
VOLKSWAGEN		
Tourage 04 V10 Diesel	Won't Start Intermittently	Check second battery under the passenger seat - voltage drop at battery terminals.
Transporter	Stalling & Running Rough	Check Engine wiring harness where it runs under the air intake pipe - power wire known to short on air temp sensor earth. The ECU will be damaged & causing the problems.
Transporter	Intermittent Stalling & Running Rough	Some Transporter Engine Control Modules have an internal Map sensor. The Map Sensor can become oil contaminated through vacuum line resulting in either rich or lean mixture settings. Repair or Replace ECU - position vacuum hose so oil drains to manifold.

MAKE/MODEL	FAULT	DIAGNOSIS/SOLUTION
Transporter	Won't Start - Stalls while driving	Check for faulty EFI relay - located under the RH side of the steering wheel. It has the No 30 on it. You may be able test it by tapping the relay.
VOLVO		
850	No Start - No Injectpr Pulse No Spark	Crank Angle Sensor testing OK. Cam Senor fault causes no spark no injector pulse.
240 - 244	Fuel Pump not Working	Check for corrosion on fuse No 7 in the fuse box - known to corrode
760 Turbo 1984 - 86	Erratic - Jerking acceleration - usually between 3 and 4,000RPM	Check Air Flow Meter - Possibly cuased incorrect load signal output i.e. Air Flow Meter calibration disturbed compensating actual cause i.e. restricted injectors. Diagnose and rectify actual cause of original problem and replace Air Flow Meter.
850 (1993-1995)	Service Light Reset	Locate diagnostic modules under the bonnet, adjacent to the window washer bottle. 1: Open module A - turn on ignition - insert fly lead into socket marked #7. 2: Press the test button located on the diagnostic unit 4 times in quick succession(between 1 and 3 seconds). 3: The LED lights up & is ready for you to insert the manual code, 1-5-1 for reset. 4: Press test button once - LED lights up - press a further five times & wait for LED to light up again - Press one more time and the LED will flash several times. Service light should now be reset.
850 (1996-7)	Service Light Reset	No manual reset available - Scanner needed.
C70 & XC70	Service Light Reset	1: Press & hold down Speedo reset button 2: turn on ignition 3: Wait for Service light to flash, release reset button. 4: Turn ignition off, than on to confirm reset.
S40	Diagnostic light comes on - Code = Long term fuel trim out of range, low & high. Note: Air Mass Meter & O2 sensors replaced & no air leaks.	Flash ECU (New program software)
S70 - V70 -1999 up	Service Light Reset	1: Press & hold down Speedo reset button 2: turn on ignition 3: Wait for Service light to flash, release reset button. 4: Turn ignition off, than on to confirm reset.
V70 - S70 (1998)	Service Light Reset	No manual reset available - appropriate equipment required i.e. scanner.
850	ABS Light On - Left Hand Rear Wheel Speed Sens Fault	Left Hand Rear wheel speed sensor and wiring to ABS module test OK. Fault code resulted from ABS control module.

MAKE/MODEL	FAULT	DIAGNOSIS/SOLUTION
S80	Service Light Reset	1: Turn ignition to (I) position 2: Press & hold the "Day Counter" reset button and turn Ignition to II position, hold down for about 12 seconds 3: After Service light flashes, release button, there should be 2 "beeps" confirming reset was successful.



ECU LOCATION GUIDE

ALFA ROMEO

Alfa Romeo 164

ABS Behind Centre Console
Climate Cntrl Centre Console Fascia
EFI Behind Centre Console
Suspension (164Q) R/H/Panel

Alfa Romeo 33

Alfa Cntrl Centre Console Fascia
EFI (10/88-) On Airflow Meter
Trip Computer Centre Console Fascia

Alfa Romeo 33 9/90-

4WD Coupling In Boot Next to Spare
Alfa Cntrl Centre Console Fascia
Climate Cntrl 4x4 Under Dash L/H Side
EFI Under Glovebox

Alfa Romeo 75

Alfa Cntrl Above Glovebox
EFI L/H Footwell
Performance Gauge Above Glovebox
Trip Computer Dash Fascia

AUDI

Audi 100 82-88

ABS Under Rear Seat
Check System Behind Centre Console
Climate Cntrl Under Dash L/H Side
Cruise Cntrl Under Column
EFI L/H Pillar
Seat Memory Under R/H/F Seat

Audi 100 V6 92-

ABS Under Rear Seat
Cruise Cntrl Under Dash R/H Side
EFI Under Dash R/H Side

Audi 100/200 88-91

ABS Under Rear Seat
Climate Cntrl Behind Glovebox
Cruise Cntrl Above Glovebox
EFI L/H Pillar

Audi 89/90 88-

ABS Under Rear Seat
Airbag Under Centre Console
Cruise Cntrl Above Glovebox
EFI Above Glovebox

Audi V8

ABS Under Rear Seat
Cruise Cntrl Under Dash R/H Side
EFI L/H Footwell

BMW

BMW 3 Series 5/91-

ABS L/H Pillar
Airbag Under Dash L/H Side
Auto Trans L/H Rear Engine Bay
Cruise Cntrl Under Dash L/H Side
EFI L/H Rear Engine Bay/Under Relay Box

BMW 3 Series 82-91

ABS Under Dash R/H Side
Cruise Cntrl Above Glovebox
EFI Under Dash R/H Side
Trip Computer Under Dash R/H Side

BMW 5 Series 81-88

ABS Above Glovebox
Auto Trans Under Dash R/H Side
Cruise Cntrl Under Dash R/H Side
EFI Above Glovebox
Trip Computer/Alarm Under Dash R/H Side

BMW 5 Series 88-

ABS Rear Engine Bay

Airbag Under Dash L/H Side
Auto Trans L/H Pillar
Climate Cntrl Behind Dash Centre
Cruise Cntrl Rear Engine Bay
EFI Rear Engine Bay

BMW 6 Series 81-89

ABS Under Bonnet L/H/R
Auto Trans Under Dash R/H Side
Cruise Cntrl Above Glovebox
EFI Above G/Box/Under Strg Col/Under Rr
Trip Computer/Alarm Under Dash R/H Side

BMW 7 Series 77-86

ABS Behind Glovebox
Auto Trans L/H Pillar
Climate Cntrl L/H Side Air/Con Unit
Cruise Cntrl L/H Pillar
EFI R/H Pillar
Trip Computer/Alarm R/H Pillar

BMW 7 Series 87-

Airbag Under Dash L/H Side
Check Mobile In Box Rear of Eng Bay
Climate Cntrl Front Side of Evap Unit
Cruise Cntrl In Box Rear of Eng Bay
EFI In Box Rear of Eng Bay
EML In Box Rear of Eng Bay

BMW 8 Series

ABS/ASC L/H Footwell
Airbag Under Dash L/H Side
Anti Theft Under Dash R/H Side
Body Computer Under Dash L/H Side
Climate Cntrl On Evap Unit
EFI In Box Rear of Eng Bay
EML In Box Rear of Eng Bay
Seat Memory Under Drivers Seat

CITROEN

Citroen AX GT

EFI/Ignition R/H Inner Skirt

Citroen BX

ABS Under L/H/F Seat

EFI/Ignition Under R/H/F Seat

Citroen CX 2500

EFI Above Glovebox

Ignition Above Glovebox

Citroen XM V6

ABS ECU Box R/H Inner Skirt

Climate Cntrl Behind Dash Control Panel

EFI/Ignition ECU Box R/H Inner Skirt

Suspension ECU Box R/H Inner Skirt

DAIHATSU

Daihatsu Applause

EFI Behind Centre Console

Daihatsu Charade G100 4 Cyl

Auto Trans Above Glovebox

EFI Above Glovebox

Daihatsu Charade G200

Auto Trans Behind Glovebox

EFI Behind Centre Console

Daihatsu Feroza

EFI L/H Pillar

Daihatsu Handivan

EFI Under Dash/Above Parcel Tray

Daihatsu Mira

EFI or Eng Cntrl Under Dash/Above Parcel Tray

Electric Power Strg Behind Parcel Tray (660 EFI)

Daihatsu Rocky

EFI L/H Pillar

EUNOS

Eunos 30X

ABS Under L/H Seat

Airbag Strg Wheel Pad

Auto Trans Under Dash L/H of Column

EFI Behind Centre Console

Eunos 500

ABS R/H Lower Dash

Airbag R/H Lower Dash

Anti Theft R/H Upper Dash

Auto Trans Behind Centre Console

Climate Cntrl Dash Fascia

Cruise Cntrl L/H Pillar

EFI Behind Centre Console

Eunos 800

4WS Behind Rear Seat

ABS/TCS Under Dash R/H Side

Airbag On Tunnel Under Heater Unit

Anti Theft CPU, R/H Lower Dash

Auto Trans Under Dash R/H Side

Climate Cntrl Dash Fascia

Cruise Cntrl Under Dash L/H Side

EFI Under Centre Console

FIAT

Fiat Regatta

Check System Instrument Cluster

Citymatic Under Dash

Trip Computer Instrument Cluster

FORD

Ford Bronco F100

EFI Under Dash R/H Centre

Rear ABS R/H Pillar

Ford Capri

EFI Behind Centre Console

Ford Capri Series 2

Auto Trans L/H Side of Glovebox

Ford Capri Series 3

EFI Behind Centre Console

Ford Corsair

Auto Trans Behind Centre Console

Cruise Cntrl Under Dash L/H Side of Column

EFI Behind Centre Console

Ford Courier 2.6

EFI R/H Pillar

Ford EA-ED DA-DC NA-NC

ABS Under Dash R/H of Column

Auto Trans Brake Pedal Bracket

Central Contrller Dash R/H side of Radio

Climate Cntrl Dash Fascia

EFI L/H Pillar

Self Levelling Susp Near Differential on Chassis Rail

Smartlock Above Handbrake

Trip Computer Dash Fascia

Ford Falcon EF/EL

ABS Fwd L/H Front Chassis Rail

Airbag Fwd Brake Pedal Bracket

Auto Trans L/H Brake Pedal Bracket

Body Cntrl Module Behind Dash next to Radio

Climate Cntrl Dash Fascia

EFI (6 Cyl inc. Auto Tran) L/H Pillar

Ford Falcon EX-XF

Cruise Cntrl Under Trip Computer

EFI L/H Pillar

EST (XF Carby) L/H Pillar

Trip Computer Dash Fascia

Ford Festiva WB

EFI Under Dash R/H of Column

Ford Laser KC-KE

AAS Dash Fascia

Cruise Cntrl Under Dash L/H of Column

EFI Behind Centre Console

Ford Laser KF

Auto Trans L/H of Steering Column

EFI Behind Centre Console

Ford Laser KH

EFI (inc. Auto Trans) Behind Centre Console

Ford Laser KJ

ABS Under Dash near Column

Airbag On Tunnel Under Heater Unit

Auto Trans Under Centre Console

EFI Under Centre Console

Ford Maverick

Auto Trans L/H Pillar

Ford Probe

ABS Under Dash R/H of Column

Airbag Under Dash R/H of Column

Auto Trans Behind Centre Console

EFI Under Centre Console

Ford Raider

EFI R/H Pillar

Ford Telstar ARAAS

Under Front Seat

ABS 10/87- Under Front Seat

Auto Trans 10/87- Under Dash L/H of Column

Cruise Cntrl R/H Pillar

EFI 9/85- Behind Centre Console

Power Strg 10/87- Under Front Seat

Ford Telstar AXABS

Under Dash near Column

Auto Trans Behind Centre Console

Climate Cntrl Dash Fascia

Cruise Cntrl-Airbag Under Dash near Column

Cruise Cntrl-Airbag Under L/H Front Seat

EFI (V6 inc. Auto Trans) Under Centre Console

Four Wheel Strg L/H Panel

HOLDEN

Holden Apollo

EFI or Emission Behind Centre Console

Holden Apollo JM

ABS R/H Lower Dash

Airbag Mechanical

Anti Theft L/H Lower Dash

Cruise Cntrl L/H Lower Dash

EFI (inc. Auto Trans) L/H Lower Dash

Holden Astra LD

EFI Under L/H Front Seat

Holden Barina

Auto Trans Under Dash L/H of Column

Holden Barina SB

ABS R/H Pillar

Airbag Rear Centre Console

Anti Theft Above Glovebox

Auto Trans Above Glovebox

EFI L/H Pillar

Holden Calibra

ABS Beside L/H/F Seat or Under Bonnet on

Auto Trans Behind Glovebox

EFI R/H Front Pillar

Holden Camira

ECM (Carby) Rear L/H Inner Skirt

EFI L/H of Glovebox

Trip Computer Dash Fascia

Holden Commodore VH

Trip Computer Under Dash R/H

Holden Commodore VK

Digital Instruments Instrument Cluster

EFI L/H Pillar

EST (Carby) L/H Pillar

Holden Commodore VL

Auto Trans Behind Fuse Cover

Cruise Cntrl Behind Fuse Cover

EFI L/H Pillar

Holden Commodore VN/VP/VG/VQ

ABS R/H Pillar

Anti Theft Above Glovebox (inaccessible)

Body Computer Under Dash R/H Side

Climate Cntrl Centre Console Fascia

Cruise Cntrl L/H Inner Skirt

EFI L/H Pillar

Power Seat Memory Under R/H Front Seat

Trip Computer Dash Fascia

Holden Commodore VR/VS

ABS R/H Pillar

Airbag Under R/H Front Seat

Anti Theft Above Glovebox

Body Cntrl Module R/H Lower Dash

Climate Cntrl Console Fascia

Cruise Cntrl (V6) L/H Chassis Rail

Cruise Cntrl (V8) L/H Inner Skirt

EFI (inc. Auto Trans) L/H Pillar

Radio Remote R/H Lower Dash

Holden Gemini RB

Emission Unleaded L/H Pillar

Holden Jackaroo 2.6

Auto Trans Under Dash

Holden Jackaroo 2.7

Cruise Cntrl Under Dash R/H of Glovebox

Holden Jackaroo 2.8

EFI Lower Dash Behind Centre Console

Holden Jackaroo V6

ABS Under Centre Console

Holden Jackaroo V7

Auto Trans R/H Pillar

Holden Jackaroo V8

Cruise Cntrl Under Dash R/H

Holden Jackaroo V9

EFI Lower Dash Behind Centre Console

Holden Nova LG

ABS Behind Dash R/H

Airbag Mechanical

EFI (inc. Auto Trans) Behind Centre Console

Holden Piazza

Auto Trans Under Dash R/H

Climate Cntrl Under Dash L/H Centre

Cruise Cntrl Under Dash R/H

EFI Under Dash R/H

Engine Knock Under Dash Centre

Turbo Boost Under Dash Centre

Holden Rodeo 2.6

EFI R/H Pillar

HONDA

Honda Accord 83-

ABS Centre Console

Carb/EFI 86- Under L/H Front Seat

Cruise Cntrl Above Fuses

Honda Accord 90-

ABS 92- R/H Panel

Auto Trans L/H Footwell

Cruise Cntrl Under Dash R/H

EFI L/H Footwell

Honda Accord 94-

ABS L/H Pillar

Airbag Behind Centre Console

Auto Trans L/H Footwell

Cruise Cntrl Under Dash R/H

EFI L/H Footwell

Honda Civic

Carb EFIM 86- L/H Footwell

Carb/EFI 84- Under Front Seat

Honda Civic 92-

Airbag Strg Pad Assy

Carb/EFI L/H Pillar

Cruise Cntrl R/H Pillar

Honda Concerto

EFI L/H Footwell

Honda CRX 92-

ABS Boot Wall

EFI L/H Pillar

Honda Integra

Auto Trans 90- Under Dash L/H of Column

EFI Under L/H Front Seat

EFI 90- L/H Footwell

Honda Integra 94-

ABS R/H Pillar

Airbag Behind Centre Console

EFI L/H Pillar

Honda Legend

ABS Behind Rear Seat

Auto Trans 88- Under R/H Front Seat

Climate Cntrl 89- Console Fascia

Cruise Cntrl Under Dash R/H

EFI Under Front Seat

EFI (Coupe) L/H Footwell

Honda Legend 91-

ABS Behind Rear Seat

Airbag Rear Centre Console

Climate Cntrl Dash Fascia

Cruise Cntrl L/H Pillar

EFI (inc. Auto Trans) L/H Footwell

Power Seat Memory Under R/H Front Seat

Honda NSX

ABS Behind Glovebox

Airbag Forward Centre Console

Auto Trans Bulkhead Behind Seats

Climate Cntrl Console Fascia

Cruise Cntrl Behind Glovebox

EFI Bulkhead Behind Seats

Electric Power Strg Behind Glovebox

TCS Bulkhead Behind Seats

Honda Prelude 83-

ABS Forward R/H Panel

Honda Prelude 86-

ABS Forward R/H Panel

Cruise Cntrl Forward R/H Panel

EFI Forward R/H Panel

Honda Prelude 88-

ABS Behind Centre Console

Auto Trans L/H Footwell

Cruise Cntrl R/H Pillar

EFI L/H Footwell

Honda Prelude 92-

ABS Forward R/H Panel

Airbag Strg Wheel Unit

Auto Trans L/H Pillar

Cruise Cntrl Under Dash L/H Column

EFI L/H Footwell

Four Wheel Strg Behind Rear Seat

HYUNDAI

Hyundai Excel

Auto Trans L/H Pillar

Hyundai Excel 90-

Auto Trans Under Front Seat

EFI Under Dash R/H of Column

Hyundai Lantra

ABS R/H Panel

Airbag Rear Centre Console

Auto Trans Under L/H Front Seat

Cruise Cntrl L/H Pillar

EFI Under Dash R/H

ETACS (early) Under Centre Console Rear

ETACS (late) Under Centre Console Front

Hyundai S Coupe

Auto Trans Under Front Seat

Cruise Cntrl R/H Pillar

EFI Under Dash R/H of Column

Hyundai Sonata

Auto Trans Behind Centre Console

Climate Cntrl Dash Fascia

Cruise Cntrl R/H Pillar

EFI L/H Pillar

Hyundai Sonata 94-

ABS Under Dash R/H

Airbag Behind Centre Console under Heater

Auto Trans Behind Centre Console

Cruise Cntrl Behind Centre Console

EFI L/H Pillar

ETACS Behind Centre Console

JAGUAR

Jaguar XJ6 86-

ABS L/H Panel

Central Processor L/H Footwell

Climate Cntrl Under Dash R/H Side A/C Unit

Cruise Cntrl L/H Footwell

Digital Instruments Instrument Cluster

EFI L/H Footwell

Jaguar XJ6/12 77-

Cruise Cntrl 79- Panel Under Dash L/H

EFI R/H Front Corner Boot

Trip Computer 83- Dash Fascia

Jaguar XJ-S 78-

Cruise Cntrl 79- Panel Under Dash L/H

EFI R/H Panel

Trip Computer 83- Dash Fascia

Jaguar XJ-S 88-

ABS L/H Panel

Climate Cntrl Under Dash R/H Side A/C Unit

Cruise Cntrl L/H Footwell

EFI L/H Footwell

JEEP

Jeep Cherokee 94-

ABS L/H Panel

Auto Trans Behind Dash L/H

Cruise Cntrl Under Dash R/H

EFI Under Dash R/H

LAND ROVER

Land Rover Discovery

EFI R/H Pillar

LEXUS

Lexus ES300

ABS R/H Pillar

Airbag Rear Centre Console

Anti Theft Behind Glovebox

Cruise Cntrl Behind Glovebox

EFI Behind Glovebox

Lexus LS400

ABS & Trac Cntrl Under Dash L/H

Airbag Behind Centre Console

Anti Theft R/H Pillar

Climate Cntrl Dash Fascia

Cruise Cntrl R/H Pillar

EFI Under Dash L/H

MAZDA

Mazda 191 91-

Auto Trans Under Dash L/H Column

EFI Under Dash R/H

Mazda 323 85-

AAS Dash Fascia

Mazda 323/Astina 10/94-

ABS Under Dash near Column

Airbag On Tunnel Under Heater Unit

EFI (inc. Auto Trans) Under Centre Console

Mazda 323/Astina 90-

Auto Trans Under Dash L/H Column

EFI Behind Centre Console

Mazda 323/Astina 91-

EFI (inc. Auto Trans) Behind Centre Console

Mazda 324 85-

Cruise Cntrl Under Dash L/H Column

Mazda 325 85-

EFI Behind Centre Console

Mazda 626 82-/MX6 87-

AAS Under Front Seat

Mazda 626/MX6 92-

4WS L/H Panel

ABS Under Dash near Column

Auto Trans Behind Centre Console

Cruise Cntrl w/Airbag Under L/H Front Seat
Cruise Cntrl w/Airbag Fwd R/H Panel
Cruise Cntrl w/o Airbag Under Dash near Column
EFI (V6 inc. Auto Trans) Under Centre Console

Mazda 627 82-/MX6 87-

ABS 7/87- Under Front Seat

Mazda 628 82-/MX6 87-

Auto Trans 7/87- L/H of Steering Column

Mazda 629 82-/MX6 87-

Cruise Cntrl 9/85- R/H Pillar

Mazda MX6

EFI L/H Footwell

Mazda RX7

Cruise Cntrl L/H Footwell

Mazda RX7 86-

AAS Near R/H Tail Light
ABS (Turbo) L/H Footwell
Anti Theft Below Glovebox
Anti Theft 89- R/H Pillar
Auto Trans L/H Pillar
Cruise Cntrl (Cabriolet) L/H Footwell
Cruise Cntrl (Coupe) R/H Pillar
EFI L/H Footwell
Power Strg Under Dash Rear Column

Mazda RX7 92-

ABS L/H Panel
Airbag Behind Dash L/H Column
Cruise Cntrl Behind Dash L/H Column
EFI L/H Pillar

Mazda 630 82-/MX6 87-

EFI 9/85- Behind Centre Console

Mazda 631 82-/MX6 87-

Knock Cntrl 7/87- Rear Engine Bay

Mazda 632 82-/MX6 87-

Pwr Strg/4WS 7/87- Under Front Seat

Mazda 929 6/91-

4WS Panel Behind Rear Seat

Mazda 929 82-

AAS 83- L/H Footwell

Mazda 929 V6

AAS Behind Rear Seat L/H

Mazda 930 6/91-

ABS Panel Behind Rear Seat

Mazda 930 82-

Cruise Cntrl L/H Pillar

Mazda 930 V6

ABS 8/89- L/H Pillar

Mazda 931 6/91-

Airbag 94- Under Dash L/H Column

Mazda 931 82-

EFI 84- L/H Pillar

Mazda 931 V6

Auto Trans L/H Footwell

Mazda 932 6/91-

Auto Trans L/H Pillar

Mazda 932 V6

Climate Cntrl 8/89- Dash Fascia

Mazda 933 6/91-

Climate Cntrl Dash Fascia

Mazda 933 V6

Cruise Cntrl L/H Pillar

Mazda 934 6/91-

Cruise Cntrl R/H Pillar

Mazda 934 V6

EFI L/H Footwell

Mazda 935 6/91-

EFI L/H Pillar

Mazda 935 V6

Power Strg Under Dash near Column

Mazda B Series 2.6

EFI R/H Pillar

Mazda MPV

ABS L/H Panel
Auto Trans Under Dash L/H Column
Cruise Cntrl L/H Pillar
EFI L/H Footwell

Mazda MX5

Auto Trans Under Dash L/H Column

MERCEDES BENZ

Mercedes 180E/190E (W201) 12/84-

ABS Rear Engine Bay near Battery
Cruise Cntrl L/H Footwell
EFI Rear Engine Bay near Battery

Mercedes 230E/300E/E/CE/TE (W124) 2/86-

ABS Rear Engine Bay near Battery
Airbag Under Centre Console
Cruise Cntrl Under Dash R/H of Column
EFI Rear Engine Bay near Battery

Mercedes 300E-560SEL/SEC (W216) 3/86

ABS Rear Engine Bay

Mercedes 300E-560SEL/SEC (W216) 3/87

Airbag Under Centre Console

Mercedes 300E-560SEL/SEC (W216) 3/88

Climate Cntrl Dash Fascia

Mercedes 300E-560SEL/SEC (W216) 3/89

Cruise Cntrl Under Dash R/H

Mercedes 300E-560SEL/SEC (W216) 3/90

EFI L/H Pillar

MITSUBISHI

Mitsubishi 3000 GT

ABS Fwd R/H Panel
Active Zero Rear R/H Panel
Airbag Rear Centre Console
Climate Cntrl Console Fascia
Cruise Cntrl L/H Pillar
EFI Behind Audio System
ETACS Under Dash R/H of Column
Suspension Rear R/H Panel

Mitsubishi VR-7

EFI L/H Pillar

Mitsubishi Cordia

EFI L/H Pillar

Mitsubishi Express

EFI R/H B Pillar

Mitsubishi Galant

ABS L/H Pillar
Auto Trans Behind Centre Console
Cruise Cntrl Behind Centre Console
Cruise Cntrl Under Dash R/H of Column
EFI Behind Centre Console
EFI L/H Pillar
Suspension R/H Panel

Mitsubishi Lancer

Auto Trans Behind Centre Console
EFI L/H Pillar

Mitsubishi Lancer CC

ABS Behind Centre Console
Auto Trans Behind Centre Console
EFI L/H Pillar

Mitsubishi Magna TM-TP

Auto Trans Behind Centre Console
Climate Cntrl Behind Centre Console

Cruise Cntrl Under Dash R/H

EFI L/H Pillar

ETACS (TP) Under Dash R/H

Mitsubishi Nimbus 92-

Auto Trans Behind Centre Console
EFI L/H Pillar

Mitsubishi Pajero

EFI (V6) L/H Pillar

Mitsubishi Pajero NH

ABS R/H Panel
Cruise Cntrl Behind Dash above Column
Diff Lock - LWB Toolbox Under Seat
Diff Lock - SWD L/H Panel
EFI L/H Pillar
Suspension L/H Panel

Mitsubishi Starion

EFI L/H Pillar
ESC Inner Skirt near Coil

Mitsubishi Triton V6

EFI L/H Pillar

Mitsubishi VR-4

ABS L/H Panel

Mitsubishi VR-5

Climate Cntrl Dash Fascia

Mitsubishi VR-6

Cruise Cntrl Under Dash R/H of Column

NISSAN

Nissan 200SX

ABS L/H Panel
Airbag Under Rear Seat
Auto Trans Under Dash L/H of Column
Climate Cntrl Dash Fascia
EFI L/H Pillar
Smart Entrance R/H Lower Dash

Nissan 280ZX

EFI L/H Pillar

Nissan 300 AZ Z32

ABS Forward R/H Panel

Nissan 300C

Auto Trans (2 Units) Above L/H/R Wheel Arch
Cruise Cntrl L/H Pillar
EFI L/H Pillar

Nissan 300ZX

AAS R/H Panel
ABS R/H Panel
ABS Series 2 L/H Panel
Auto Trans R/H Panel
Climate Cntrl Series 2 Dash Fascia
Cruise Cntrl L/H Pillar
Digital Instruments Instrument Cluster
EFI L/H Pillar

Nissan 301 AZ Z32

Auto Trans L/H Footwell

Nissan 302 AZ Z32

EFI L/H Pillar

Nissan 303 AZ Z32

Power Strg L/H Footwell

Nissan Bluebird U13

Auto Trans R/H Pillar

Nissan Bluebird U14

Climate Cntrl Dash Fascia

Nissan Bluebird U15

Cruise R/H Lower Dash

Nissan Bluebird U16

EFI Behind Centre Console

Nissan EXA

EFI Under L/H Front Seat

Nissan Maxima

ABS Under Parcel Shelf
Airbag Behind Centre Console
Auto Trans Behind Centre Console
Climate Cntrl Dash Fascia
Cruise Cntrl Under Dash L/H of Column
EFI Behind Centre Console

Nissan Navara/Pathfinder

Auto Trans Under R/H/F Seat or R/H Panel
Climate Cntrl Console Fascia
Cruise Cntrl L/H Panel
EFI Under R/H Front Seat

Nissan Nomad/Vanette

Auto Trans L/H of Glovebox

Nissan NX Coupe

ABS L/H Pillar
Cruise Cntrl R/H Pillar
EFI Behind Centre Console

Nissan Patrol Y60

Auto Trans L/H Pillar

Nissan Patrol Y61

EFI 92- L/H Footwell

Nissan Pintara R32

Auto Trans Under L/H Front Seat

Nissan Pintara R33

EFI L/H Pillar

Nissan Pintara R34

Trip Computer Dash Fascia

Nissan Pintara U12

Auto Trans Behind Centre Console

Nissan Pintara U13

Cruise Cntrl Under Dash L/H of Column

Nissan Pintara U14

EFI Behind Centre Console

Nissan Pulsar N12, N13

EFI Under L/H Front Seat

Nissan Pulsar N14

ABS L/H Pillar

Nissan Pulsar N15

Cruise Cntrl R/H Pillar

Nissan Pulsar N16

EFI Behind Centre Console

Nissan Serena

Auto Trans Behind Dash L/H Column
Climate Cntrl Console Fascia
EFI Behind Glovebox

Nissan Skyline R30

EFI L/H Pillar

Nissan Skyline R31

Auto Trans Under L/H Front Seat

Nissan Skyline R32

EFI L/H Pillar

Nissan Skyline R33

Trip Computer Dash Fascia

Nissan Urvan

Auto Trans Below Shift L/H

Nissan XFN Ute

EST L/H Pillar

PEUGEOT**Peugeot 05 93-**

ABS R/H Inner Skirt
Climate Cntrl Behind Centre Console
Cruise Cntrl L/H of Column
EFI In Plenum L/H

Peugeot 205

EFI Under Dash L/H

Peugeot 3-6

EFI Behind Battery

Peugeot 405

ABS In Plenum
EFI In Plenum

Peugeot 505

ABS L/H Footwell
Climate Cntrl Under Dash R/H of Glovebox
Cruise Cntrl Under Dash R/H of Column
EFI Behind Glovebox

PORSCHE**Porsche 911 Late**

Cruise Cntrl Under Dash L/H Column
EFI Under Drivers Seat

Porsche 928

ABS R/H Pillar
EFI L/H Pillar

Porsche 944

EFI Under Dash R/H

PROTON**Proton Wira GLI/XLI 95-**

EFI L/H Pillar

RANGE ROVER**Range Rover**

ABS Under R/H Front Seat
Cruise Cntrl L/H Pillar
EFI Under Dash R/H

RENAULT

Renault 19 91-

Auto Trans L/H Inner Skirt
EFI/Ignition R/H Inner Skirt

Renault 25

ABS R/H Inner Skirt
Auto Trans Mounted on Transmission
Cruise Cntrl Above Glovebox
EFI L/H Inner Skirt

Renault Fuego

Auto Trans Mounted on Transmission
Trip Computer Dash Fascia

ROVER

Rover 416

EFI Under Front Seat

Rover 825/827

ABS L/H Panel
Cruise Cntrl Under Dash R/H
EFI Under R/H/F Seat
Trip Computer Console Fascia

Rover SD-1

Cruise Cntrl Under Dash R/H
EFI Under Dash R/H
Trip Computer Console Fascia

SAAB

Saab 900

APC 84-85 Under Rear Seat
Cruise Cntrl Under Dash L/H
E2K L/H Inner Skirt
EFI R/H Kick Panel

Saab 9000

ABS L/H Plenum Chamber
Airbag FRS Under Centre Console

APC Under L/H Front Seat
Cruise Cntrl Under Dash R/H
EFI Rear L/H Plenum

SEAT

Seat Cordoba

EFI Driver Side Fire Wall

Seat Ibiza/Ibiza Gti 94-

EFI Driver Side Fire Wall

Seat Toledo 94-

EFI Driver Side Fire Wall

SUBARU

Subaru Impreza

ABS Under R/H/F Seat
Auto Trans R/H Lower Dash
Cruise Cntrl R/H Lower Dash
EFI L/H Footwell

Subaru L Series

EFI Under Column
Trip Computer Console Fascia

Subaru Liberty

ABS Under R/H Front Seat
Auto Trans R/H Lower Dash
Cruise Cntrl L/H Pillar
EFI Under Dash R/H
Suspension Under L/H Front Seat

Subaru Liberty 94-

Auto Trans L/H Panel
Cruise Cntrl L/H of Glovebox
EFI L/H Footwell

Subaru SVX

ABS Under Front Seat
Auto Trans Behind Dash R/H
Cruise Cntrl Behind Dash R/H

EFI Behind Dash R/H
Power Strg Behind Dash R/H

Subaru Vortex

Auto Trans L/H Panel
EFI Under Parcel Shelf
Suspension Under L/H Front Seat
Trip Computer Console Fascia

SUZUKI

Suzuki Alto

EFI Above Glovebox

Suzuki Baleno/GTX

EFI Below Dash Panel

Suzuki Swift/GTI

EFI Behind Dash R/H

Suzuki Vitara

EFI (inc. Auto Trans) Behind Dash R/H

TOYOTA

Toyota 4 Runner 90-

Cruise Cntrl R/H Pillar
TCCS L/H Pillar

Toyota Camry 5/87-

Cruise Cntrl L/H Pillar
TCCS Behind Centre Console

Toyota Camry 83-

Auto Trans Under Dash L/H
Cruise Cntrl L/H Pillar
EFI Behind Centre Console

Toyota Camry/Vienta 2/93-

ABS R/H Lower Dash
Airbag Mechanical
Anti Theft L/H Lower Dash
Cruise Cntrl L/H Lower Dash
EFI (inc. Auto Trans) L/H Lower Dash

Toyota Celica 10/84-

EFI Behind Centre Console

Toyota Hiace

Auto Trans 90- Above Glovebox

EFI 90- L/H B Pillar

Emission 12/82- Under Dash L/H Column

Emission 90- L/H B Pillar

Toyota Landcruiser

EFI Above Glovebox

Toyota Landcruiser 5/90-

Climate Cntrl Under Dash L/H Column

Cruise Cntrl Under Dash R/H Column

EFI Above Glovebox

Toyota Lexcen

Anti Theft 92- Above Glovebox

Body Comp (Newport) Under Dash R/H

Climate Cntrl (Newport) Console Fascia

Cruise Cntrl L/H Inner Skirt

EFI L/H Pillar

Trip Computer Instrument Cluster

Toyota Lexcen VR

ABS R/H Pillar

Airbag Under R/H Front Seat

Anti Theft Above Glovebox

Body Cntrl Module R/H Lower Dash

Climate Cntrl Console Fascia

Cruise Cntrl (V6) L/H Chassis Rail

Cruise Cntrl (V8) L/H Inner Skirt

EFI (inc. Auto Trans) L/H Pillar

Radio Remote R/H Lower Dash

Toyota MR-2 10/87

Cruise Cntrl Boot Wall L/H

Toyota MR-2 10/88

EFI Behind Centre Console

Toyota MR-2 3/90

ABS Above Glovebox

Toyota MR-2 3/91

Airbag Mechanical

Toyota MR-2 3/92

Cruise Cntrl L/H Pillar

Toyota MR-2 3/93

EFI Bootwall

Toyota Paseo

TCCS Behind Centre Console

Toyota RAV4

ABS R/H Pillar

Toyota RAV5

Airbag Mechanical

Toyota RAV6

TCCS Behind Centre Console

Toyota Celica 10/86-

ABS Behind Radio

Auto Trans Under Centre Console

Cruise Cntrl L/H Pillar

EFI Behind Centre Console

Toyota Celica 11/89-

ABS R/H Panel

Cruise 8/91 (Ex Grp A) Behind Radio

Intercooler (Group A) Behind Radio

TCCS Behind Centre Console

Toyota Celica 94-

ABS R/H Pillar

Airbag Mechanical

Anti Theft Under L/H Front Seat

Audio Amplifier Behind Centre Console

Cruise Cntrl L/H of Glovebox

Speak Amplifier Under L/H Front Seat

TCCS Behind Centre Console (fwd)

Toyota Corolla 9/85-

EFI L/H Pillar

Emission Behind Centre Console

Emission/EFI 6/89- Behind Centre Console

Toyota Corolla 9/94-

ABS Behind Dash R/H

Airbag Mechanical

TCCS Behind Centre Console

Toyota Corona 84-

EFI Above Glovebox

Toyota Cressida 10/88-

ABS R/H Panel

Climate Cntrl Dash Fascia

Cruise Cntrl Under Dash R/H Column

TCCS Above Glovebox

Toyota Cressida 11/85-

Auto Trans Behind Glovebox

Cruise Cntrl R/H Pillar

EFI Above Glovebox

Power Strg Under Centre Console

Toyota Cressida 81-

Cruise Cntrl L/H Pillar

EFI Above Glovebox

Toyota Crown

ABS R/H Panel

Auto Trans R/H Pillar

Cruise Cntrl Under Dash L/H

EFi Under Dash L/H

Power Strg Under Dash L/H

Toyota Supra 1/86

ABS Above Glovebox

Toyota Supra 1/87

Auto Trans L/H Pillar

Toyota Supra 1/88

Cruise Cntrl Under Dash near Column

Toyota Supra 1/89

EFI Above Glovebox

Toyota Supra 1/90

Power Strg 8/88- Above Glovebox

Toyota Supra 1/91

Suspension 8/88- R/H Panel

Toyota Tarago

EFI Upper L/H B Pillar

Toyota Tarago 7/90

ABS Under Glovebox

Toyota Tarago 7/91

Airbag Behind Centre Console

Toyota Tarago 7/92

Climate Cntrl 8/91- Dash Fascia

Toyota Tarago 7/93

Cruise Cntrl R/H Pillar

Toyota Tarago 7/94

TCCS Under L/H Seat

Toyota Town Ace/Spacia

Emission R/H pillar

VOLKSWAGON**Volkswagon Golf**

Cruise Cntrl Under Stereo or Behind Glovebox

EFI (Cabriolet) Under Bonnet or R/H Plenum

EFI (GTI) Under Bonnet or L/H Plenum

Volkswagon Transporter

EFI Compartment Forward of Engine

VOLVO**Volvo 240**

ABS Under R/H Front Seat

EFI R/H Pillar

Ignition Under Dash R/H

Volvo 360

EFI Behind Centre Console

Volvo 7/9 Series

ABS Near R/H Pillar

Airbag Under Drivers Seat

Climate Cntrl Dash Fascia

Cruise Cntrl Under Dash R/H Column

EFI 86- R/H Pillar

Ignition Under Dash L/H Column

Volvo 850

ABS Rear L/H Inner Skirt

Airbag Rear Centre Console

Auto Trans Control Unit Box R/H Inner Skirt

Climate Cntrl Dash Fascia

Cruise Cntrl Relay Box L/H Side Plenum

EFI Control Unit Box R/H Inner Skirt

Ignition Control Unit Box R/H Inner Skirt

