

# KWE Fault Database

Symptom	Primary Cause	Specific fault	Area	SubArea	Car	Eng	Body	Who
Water dripping on feet, especially on corners, even in dry weather	Fan motor casings filling with water	Airbox or air inlet plenum drain(s) clogged	Body	Aircon	XJ/XJS	Any	Any	CK
Water dripping on feet, especially on corners	Aircon drains blocked	Debris at top of either drain tube	Body	Aircon	Any	Any	Any	CK
Hood slow to raise and lower, may take two or more button presses	Hood mechanism/hinges stiff		Body	Hood	XJS	Any	Convertible	CK
Hood slow to raise and lower, may take two or more button presses	Low power hood fluid	Leaking pump or rams	Body	Hood hydraulics	XJS	Any	Convertible	CK
Electric door locks inop; clicking with key	LH door lock stuck in one position	Link from motor to lock detached	Body	Locks	XJS 89		PFL	CK
Electric windows N/W	Door glass window channel worn	the glass channel has a flock coating allowing the window to glide up and down. When the flocks wears away the rubber hinders the glass from freely moving	Body	windows	XJS	any	Pre-facelift with framed doors	BS
Electric window N/W	Door window motor weak	The motor appears to be working Ok when bench tested but sticks half way up or down, this would appear that the runner itself is mis-aligned or the channel is faulty check these first, if both Ok replace the motor	Body	Windows	XJS	any	Pre-facelift with framed doors	BS
Wet front carpets and drips on feet	Leak around screen or scuttle	Hole in scuttle has developed, often hidden by screen surround trim	Body		XJS	Any	Any	CK
ABS pump runs continuously or not at all	No detection of high or low pressure	Faulty pressure switch on ABS pump housing	Brakes	ABS	Any with ABS	Any	Any	CK
ABS light on all time, pump runs for long time	System not reaching correct pressure	Leaking accumulator	Brakes	ABS	Teves ABS	Any	Any	CK
ABS light on all the time, pump runs and switches off correctly	System checking fails	ECU fault	Brakes	ABS	Teves ABS	Any	Any	CK
ABS light on & Cruise N/W	Link wire	This is a common faulty the ABS sensor checks out ok but the scanner still points to the wheel you are testing - there is a very short link wire between the ABS sensor and the main loom	Brakes	ABS	XK8	Any	Any	BS
Intermittent long brake travel occasionally pulls to either side & the ABS light doesn't come on	Accumulator sphere	No apparent air in the system & ABS pump switches on every time the pedal is depressed. The Hydraulic accumulator sphere has an internal reservoir divided into two chambers by a membrane. The upper is charged to 84 bar with nitrogen the lower is filled with brake fluid and operates between 140 & 180bar. in this case the sphere isn't holding pressure long enough	Brakes	ABS	Teves ABS	Any	Any	DM
ABS Pump Not Keeping Up	Blocked Fluid Line	Fluid Reservoir Rear Line Filter Blocked or Restricted	Brakes	ABS	XJS	any	any	LD
ABS Pump Not Keeping Up	Main Valve Fault	Main Valve Seized Open Causing Fluid Short to front	Brakes	ABS	XJS	any	any	LD
ABS light on all the time, pump not running	Pump drive circuit not working	Blocking diode open circuit	Brakes	ABS/wiring	Any with ABS			CK
ABS Fault Code 21	Valve Block Internal Ground	Pin 7 Valve Solenoid Block Internal Ground Failure	Brakes	Electrics	XJ/XJS	any	any	LD
ABS Light staying on	Relay Fault	Main relay behind ECU (Tall White relay) has a fuse inside which blows stopping the power to the ECU	Brakes	ABS	Series 3	Bosch	Any	BS
Cruise control won't engage	Bellows not holding vacuum		Electrics	Cruise	Pre-1992	Any		CK

Engine Bay Fuse #3 Keeps Blowing - Centre Switch Panel (Fog Lights Etc Faulty)	Security Sounder Short	RHF Wheel Arch Sounder Location - Internal Battery Short	Electrics	Electrics	XK8/X308	any	any	LD
SRS Light On	Steering Wheel Cassette Breakdown	Airbag Resistance values should be between 2 - 5 Ohms, Using OBD Live Data Read Values, Common Driver Fault Cause Is the Cassette	Electrics	Electrics	XK8/XJR	any	any	LD
Fuel gauge reading half full when empty	Faulty anti-slosh module		Electrics	Fuel	f/lift XJS	any		CK
HID lamps flicker on dim dip	HIDs won't work on less than 12v	Dim dip resistor left in circuit	Electrics	Headlamp	Any			CK
HID lamps buzz on & off on dipped	Main & Dipped shorted by HID adaptor harness	Later XJS headlamp logic unit can't tolerate M&D shorted	Electrics	Headlamps	XJS	Any	Any	CK
Power hood won't operate	Handbrake interlock not working	Broken handbrake switch	Electrics	Hood	XJS	Any	Convertible	CK
Car Starts On Its Own	Ignition Switch Fault	Internal Springs Dislodge Causing a Short Circuit	Electrics	Ignition	XJS	Any	Any	LD
Indicator Self Cancel Not working	Cancel Detent Not Engaging	Test With GSH Indicator Stalk, If issues still occurs, check the boss on the steering wheel	Electrics	Indicators	XJS	Any	Facelift XJS	LD
Headlamps go off when rear fogs on	No feed from rear fog position to headlamps	Faulty relay	Electrics	Lighting	XJS		Early	CK
Lamp fail lamp comes on with brake pedal but lamps come on ok	Faulty lamp failure unit or bad connections (esp earth). Or LEDs fitted		Electrics	Lighting	XJ/XJS			CK
LED Headlamps Random Behaviour, Wont Switch	Ignition Switch/Relay	Headlamp Circuit Differs With Ignition Off. Ignition should be position 2 for testing with the relay removed.	Electrics	Lighting	XJS	Any	Any	LD
Locks bouncing	One or both lock solenoids incorrectly adjusted	check link rods are correct shape or adjust lock motor position	Electrics	Locks	XJ/XJS	ALL	Any	IG
Electric Mirrors Wont Adjust	Switch Fault	Internal Connection Ring Corrodes, Try Cleaning the internal Surfaces or replace with better components	Electrics	Mirros	XJS	Any	Any	LD
Engine stalling at low revs	Inlet air blockage	Air-filter been eaten by mouse, loose debris	Engine	Air-Intake	XJS	4.0 Ltr	Any	IG
Slow cranking, no fire/start	Low compression (50psi), high bore friction	Bore wash after short run leaves bores unable to create compression, and after further storage to go rusty/high friction. Fix is to inject WD40 then 50ml engine oil in each bore, then crank for a few seconds without plugs to distribute the oil, then plugs in, throttle to max (cuts off injectors) crank for 30 seconds. If coughs, modulate throttle between 80 & 100%	Engine	Cylinders	XK/XJ8	4L V8 early	Any	CK
Poppy running, esp at higher revs	Ignition timing wrong	Vacuum not regulated to 12.5in - either vac regulator or 1 way valve on throttle body, or dump valve	Engine	Distributor	Any non-Marelli	V12	Any	CK
V12 only running on one bank	Rotor arm faulty	Aftermarket rotor fitted and within 5000 miles the rotor arm is arcing between the rotor and the distributor shaft	Engine	Distributor	XJS	V12 Marelli	Facelift XJS	BS
Difficult to start, idles roughly, big flat spot on take-off, low on power	Rich mixture	Temp sender high resistance (-ve temp coeff) which tells ECU it's cold so enrichens	Engine	EFI	XJ12	V12 or any EFI		CK
Impossible to start, occasional puffs	Rich mixture	Temp sender o/c, lead off/broken, poor connection	Engine	EFI	XJ/XJS	V12		CK
Big flat spot on take-off	Rich mixture	ECU temp sender connector poor	Engine	EFI	Any V12	V12	Any	CK
At certain throttle positions and when hot, engine loses all power	ECU sets mixture incorrectly	Throttle pot failure	Engine	EFI	XJ/XJS	V12		CK
Idle speed varying from normal to very low or stall, periodic	Incorrect vacuum signal to ECU	Crushed, blocked vacuum pipe from manifold to ECU	Engine	EFI	XJ/XJS	V12	Any	CK
Severe engine vibration 30 seconds after cold start	Lambda feedback wrong	Swapped fore and aft lambda sensors (after engine work)	Engine	EFI	XJS	AJ16	Facelift XJS	CK

No start, maybe a puff or two	Injectors not operating except for first 0.5s	Main relay opening during cranking (closed with ig on), due to open circuit to Ign feed (white wire) due to inertia switch open/failed, alarm system inop etc	Engine	Electrics	XJ/XJS	V12, poss AJ6/16		CK
Engine no start, but cranks ok	ECU not operating	Main relay faulty	Engine	Electrics	XJS	V12		CK
Engine hard to start all temperature ranges	Engine takes a minimum of 9 seconds to start and more than 3 revolutions to start	Engine (camshaft) position sensor failure Engine management is only using the crankshaft position sensor to start (sensor is a hall effect device located inside the distributor)	Engine	Eng Mgmt	XJS	AJ16	Facelift XJS	CK
Apparent flatspot from zero to low throttle; shunting at light throttle OTR	Incorrect fuelling	Faulty AFM	Engine	Eng Mgmt	XJS/XJ6	AJ16	Facelift	CK
Flatspot on take-off + running rich	Fuel pressure above 32psi running	Blocked pipe under pressure, fuel rail to outlet reg	Engine	Fuel	XJS '89	V12 Marelli		CK
Excess CO	Rich mixture	blocked or damaged output pressure reg	Engine	Fuel	Any V12	V12	Any	CK
Engine Chokes & Stalls, Cuts Out When Hot	ECU Fault - Will Run With Coolant Sensor Disconnected	Internal Circuit Failure	Engine	Fuel	XJS	Any	Any	LD
Engine cuts out after running fine	Swirl Pot Dries Out	Blockage or Restriction in Fuel Tank to Swirl Pot, Prevents Swirl Pot Refilling Fast Enough	Engine	Fuel	XJS	Any	Any	LD
Idle speed too low when cold, engine close to stalling	Idle air insufficient	Auxiliary air valve sticking in 'hot' position	Engine	Fuelling	XJ/XJS	V12		CK
Idle speed too high sometimes	Idle speed control faulty	Sticking aux air valve	Engine	Idle control	Most	V12 and AJ6 to 1991	Any	CK
Idle speed too high all the time	Air leak	Faulty AAV; leak at throttle spindle, inlet manifold gasket, throttle gasket, ports for a/c etc	Engine	Idle control	XJS/XJ	V12	Any	CK
Engine fails to start when hot, possible stopping when car stops	No ignition drive	Faulty ignition amplifier	Engine	Ignition	XJ/XJS	V12 pre-Marelli		CK
Engine poor start & run; sounds like early firing	Ignition timing	Coils swapped (Marelli)	Engine	Ignition	XJS 90	V12 marelli		CK
Uneven idle, lack of power on take-off	Low vac advance at idle (should be 12"Hg)	Leak in vac reg diaphragm	Engine	Ignition	XJ S3	V12		CK
Engine no start, but cranks ok	Timing 180 deg out	Marelli king leads swapped	Engine	Ignition	XJS	V12 marelli		CK
Engine no start, firing in exhaust occasionally	Wrong ignition timing	Distributor 180deg out	Engine	Ignition	XJ/XJS	V12		CK
Difficult to start when cold, runs ok when warm	Wrong ignition timing	No vac advance due to ig vac reg dropped off solenoid valve	Engine	Ignition	XJ12	V12 Pre-Marelli		CK
Popping at around 2000rpm	Excess vacuum advance	Vacuum not regulated to 12.5in - either vac regulator or 1 way valve on throttle body, or dump valve	Engine	Ignition	XJS/12	V12 pre-marelli		CK
Intermittent loss of power, especially when hot, poor idle, stalls easily	Poor ignition	Faulty coil and/or king lead	Engine	Ignition	XJ/XJS	Any	Any	CK
Misfire at low/no load, 2000rpm	Distributor	Rotor arm not aligned with posts in cap. Either move base to line up with web on valley cover, or can be whole tooth out	Engine	Ignition	XJS	V12	Any	CK
Won't start when hot	ECU not working when hot	Broken crankshaft sensor	Engine	Ignition	Any	Any	Any	IG
Vehicle doesn't crank & no dash warning lights	Inertia switch tripped	The inertia switch is situated under the "A" pillar floor kick trim on the drivers side	Engine	Ignition	X300	Any	Any	BS
Water/coolant dripping from B bank throttle	Water in inlet manifold	Leaking AAV thermo bulb. Sucks coolant from rail, through AAV and into manifold. Some will get into cylinders	Engine	Manifold	XJ/XJS	V12		CK

Starter slow or inop when engine hot	Starter motor fault	Internal soldered connections high resistance when hot. This is from a customer so not verified	Engine	Starter	XJ/XJS	V12		CK
Engine sometimes stalls on briskly slowing down	Insufficient idle air on over-run	Base idle wrong	Engine	Throttle	XJS	AJ16	Facelift XJS	CK
Engine misfiring between 2000-3000revs	Excess back pressure	Cats starting to block the hotter they get	Engine	Timing	XJS	4.0Ltr	Any	IG
Engine (4 litre) starts to misfire around 1800rpm and won't rev higher	Loss of timing signal	Faulty CPS	Engine	Timing	XJS	AJ6	Any	CK
	Car run lumpy , and seconds after car running, engine light come on with Fuel 13 , Fail 13.	Vaccum line not connected properly. Comes from driverside inlet maniold vaccum to passengerside bulkhead and goes to ECU control unit.	Engine		XJ40	6.0 Ltr		BS
Poor/delayed shift to 3rd gear	Gearbox vacuum modulator malfunctioning	Leak in vac mod pipe to manifold	Gearbox	Controls	XJSV12	V12		CK
No top gear	Electric kickdown engaged all the time	Kickdown switch maladjusted	Gearbox	Controls	XJSV12	V12		CK
Won't change to 3rd gear	Kick down on all time	Faulty/maladjusted k/down switch	Gearbox	Kickdown	XJ12/XJS	GM400		CK
Vibration through the centre of the vehicle similar to a wheel wobble at varying speeds,	Gearbox Output shaft bolt loose	The propshaft can move backwards & forward because it isnt secure although all flange bolts are tight	Gearbox	Rear Differential	XJS	Any	Any	DM
Reluctant change from 1st	Thinks foot is hard down	Vacuum pipe blocked/leaking	Gearbox		any auto	any	any	CK
Heater fans won't come on except on Demist or full cold	A/C won't allow air that should be hot to be blown until engine has warmed up	Heater matrix thermostat faulty or disconnected	HVAC	Aircon	XJ/XJS	Any	Del 3	CK
Insufficient air from heater except on High fan speed or Defrost	One fan motor faulty - only runs on High	Motor speed controller or feedback diode faulty. (Often moisture-damage)	HVAC	Aircon	XJ/XJS	Any		CK
Aircon doesn't cool, interior stuffy	No cooling or dehumidification	No refrigerant (has leaked out); Compressor belt removed; Compressor clutch not engaging (various causes)	HVAC	Aircon	XJ/XJS	Any		CK
Some or none of the cabin fan speeds work	Speed relay(s) not working	Relay coil wires corroded off terminals inside casing	HVAC	Aircon	<b>pre 86</b>	Any	Del 2 only	CK
AC Clutch Wont Engage	No Relay Feed	ECU PIN 20 Should Send Voltage to Clutch Relay When Ignition is Turned On, Check this to diagnose a ECU Fault	HVAC	Aircon	XJS	Any	Any	LD
AC Works on Manual But Not Auto	Interior Temp Sensor Fault	Loose Connections Or Faulty Sensor	HVAC	Aircon	XJS		Later Cars	LD
Lower air always hot	Blend flaps	Lower flap motor seized	HVAC	Blend flaps	XJS	Any	Del3	CK
Heater always blows same temp from one or both outlets	Airblend control not working	One or both blend valve motors seized	HVAC	blend valves	XJ/XJS	Any	Delanaire Mk3, 1986 on	CK
Temp control inoperative	Control system faulty	A/c amplifier failed	HVAC	Controls	XJ/XJS	Any	Delanaire Mk2, up to 1986	CK
Lower air always hot, upper cool or tepid	Air leak from main casing	Cold air leaking from around heater matrix pipes and cooling dash temp sender	HVAC	Htr Matrix sealing	XJS	Any	Del3	CK
Heater fans only work on high/defrost when under test	AC ECU not on	Water temp sender not hot enough or disconnected	HVAC	Sensors	XJ/XJS	ALL	Any	IG
Steering very notchy - feels lke intermittent power assistance		Seized lower steering universal joint	Steering	Column	XJ/XJS	Any	Any	CK
Loss of power steering fluid, no sign on ground	Leaking rack seals allowing PAS fluid into bellows	Worn seal or grooved cylinder	Steering	Rack	XJ/XJS	Any	Any	CK
Loss of power assistance for short time when cold	High pressure steering fluid escaping to low pressure side	Worn control valve seals or groove in tower cylinder	Steering	Rack	XJ/XJS	Any	Any	CK

Excess brake pedal movement after cornering	Excess front wheel bearing play	Worn stub-axles or maladjusted wheel bearings allowing brake disc to knock back front pads	Steering	Wheel bearings	XJ/XJS	Any	Any	CK
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