

TECHNICALLY SPEAKING



Subaru Outback 1999 – 2000

Fault: Poor idle.

Symptom: Some of the Outback vehicles within this year range will experience the rough idling problem after disconnecting or replacing the battery.

Cause of Fault: You may need to reset the idle stepper motor.

Remedy:

1. Locate the two black connectors, which are below the driver's side dash up under the steering column.
2. Connect the two black connectors.
3. Cycle the ignition key 5 times from the key on to key off to key on positions.
4. Now disconnect the two black connectors and start the engine to ensure that the idle is now corrected.



Subaru Forester 2001

Fault: Vehicle will not start

Symptom: The engine will crank but not start during cold weather or the first initial start up in the mornings. The engine may start and run for a short

time and then shut down.

Cause of Fault: The immobiliser unit can be affected by cold weather.

Remedy: Get a hair dryer and make sure it is applying warm air to the immobiliser control unit. This should warm the immobiliser control unit to a suitable operating temperature which therefore allows the vehicle to run.

You may want to call the Subaru dealer for a transponder chip upgrade which is available to rectify this fault.

Location of immobiliser control unit is, underside of the dash on the drivers side.



Toyota Landcruiser 100 Series

Fault: The engine may stall whilst vehicle is driving.

Symptom: On restart the engine will crank and run.

Cause of Fault: The spill valve terminals and worn due to excessive vibration.

Location of spill valve: On the diesel pump.

Remedy: It is advised to secure the harness to minimise vibration and have the owner of the vehicle report to their local dealer. Toyota dealers have been made aware of the fault and have an upgraded kit consisting of a new harness plug and locking ring. You may do the repair yourself, however you will need to get the new harness plugs

and locking rings and be confident that you get it right before releasing the vehicle back to the customer.

Fault: Vehicle will not start.

Symptom: Engine will turn over but will not start. You may see a security light on the dash staying illuminated.

Cause of Fault: This particular problem can be related to the theft deterrent module.

Remedy: While the ignition key is in the on position, disconnect the battery and auxiliary battery.

Reconnect the battery and auxiliary battery and attempt to start the vehicle. This should reset this particular problem.



Holden XC Barina

Fault: Vehicle is difficult to start

Symptom: Prolonged cranking periods before engine runs.

Cause of Fault: The crank angle sensor is possibly faulty.

Remedy: The EFI system uses the CAM angle sensor as a fail safe reference for if the Crank angle sensor fails. This results in the vehicle needed to be cranked over for a prolonged period before the signal is recognised. Usually after the initial start up the engine will then start normally.

 Continued over

**DON'T
GIVE
THE WORLD
A HANGOVER**

**THINK
BEFORE
YOU TURN
THE VALVE**

TECHNICALLY SPEAKING CONTINUED



Holden Frontera 2001

Fault: Vehicle will not crank over.

Cause of Fault: General Motors understand there is a fault in the immobiliser control circuit, when the immobiliser detects an incorrect transponder signal or when there is no communication between the components the immobiliser control unit will stop the starter relay from operating which in turn affects the PCM which in turn stops

the vehicle from cranking.

Remedy: You may see the check engine lamp symbol within the instrument cluster blink continuously. You may ask the vehicle owner for a spare key to start the vehicle and if you have a scan tool equivalent to the Tech 2, you may use this to check the immobiliser control units status. However be careful with this procedure, as you don't want to make the problem worse by incompatible scan tool software. Our suggestion if you're not sure get the vehicle towed to the nearest Holden Dealer.

TECHNICALLY speaking is provided to AEAC News' readers courtesy of Boyce's Automotive Data, phone 02 9319 7484.

Parallel Charging AGM and Conventional Batteries

In the August/September 2007 (p 27) edition of AEAC News there was an article by Collyn Rivers regarding "Parallel Charging AGM and Conventional Batteries".

The image which was incorrect. This is the correct image for the smart start dual battery isolator (SBI 12).



Another branch for CoolDrive

CoolDrive Distribution has expanded its operations in Victoria, opening a second Melbourne branch in Hallam in the outer south-eastern suburbs.

The new branch comes as the result of the acquisition of AES, an auto electrical supplier servicing the area for over 18 years. Graeme Edwards, the previous owner of AES will stay on with CoolDrive in a sales and customer service role.

"This is a first for CoolDrive," said Tim Grimes, National Marketing Manager. "We have never had a second branch in the same capital city. The opportunity to include AES into the CoolDrive network was great, and the location gives us the ability to greatly improve service levels to the growth corridors in the eastern and south eastern suburbs and regional areas."

"While the new branch will be smaller than the existing Melbourne branch, our technology and inventory systems will allow us to supply over 90% of needs directly from this branch, with the more obscure products still being available through our Box Hill location on a same day basis in most cases."

The new Hallam branch of CoolDrive is located at

Factory 11, 151-159 Princes Hwy, Hallam. For more information, please contact the branch on 03 9796 3155.

Genuine Sawafuji alternators and starters



CoolDrive has just released of an extensive range of genuine Sawafuji alternators and starter motors as part of the Jaylec range. The Sawafuji units are fitted to many O/E vehicles in heavy duty applications, such as Hino, Nissan UD and Komatsu.

Sawafuji starters and alternators are well proven in their ability to stand up to the harsh conditions that can kill most aftermarket products. With over 40 units available and more on the way, CoolDrive's range of Sawafuji starters and alternators will cover much of the Japanese heavy duty truck and mining equipment applications.

The Sawafuji range adds another premium brand to the already impressive stable of products in the Jaylec range, including Bosch, Delco Remy, Denso, Leece Neville and Valeo.

As a professional, you have two choices when working with refrigerants. You can take pride in your work and act responsibly, or you can be irresponsible.

Released refrigerants destroy the ozone layer and cause global warming—it's like giving the world a bad hangover. Refrigerants are invisible, so you can't see the negative impact of turning the valve and letting the gas escape into the air. But the damage is done. So think before you turn the valve. Do the right thing by collecting and returning non-flammable and non-toxic refrigerants. It's a straightforward procedure and RRA is here to help. Be rewarded financially for improving the environment. RRA gives you a rebate for each kilo of refrigerant you collect and deliver to wholesalers.

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