SUBARU®

NUMBER 02-89-94

SERVICE BULLETIN

APPLICABILITY 93MY LEGACYS WITH ZEXEL A/C SYSTEMS **DATE** 02-03-

SUBJECT: **INTERMITTENT ENGINE STUMBLE WHEN THE A/C COMPRESSOR CYCLES ON AND OFF AT ANY SPEED**

If you have a customer complaint of this condition, it can be duplicated by using the following procedures.

1. Warm-up the engine and let it idle with the A/C compressor on.
2. Locate the air conditioner relay and the A/C main fan relay in the main fuse box under the hood, (see 1992 Service Manual 6-3, Page 92, Fig. 73-2).
3. Remove and install the air conditioner relay several times, it may take 20 or more cycles of this relay before you will experience the stumble.
4. If you cannot duplicate the stumble using the air conditioner relay, repeat the above procedure using the main fan relay.

If you are unable to duplicate this condition using the above procedures, another problem may exist. Verify this problem and repair.

To correct this condition you will have to install a back-up power supply wire to the Electronic Control Module (ECM) and eliminate the old one by using the following procedures.

1. Remove the negative battery cable.
2. Locate the green fuel pump relay connector B-30 (see 1992 Service Manual 6-3, Page 93, Fig. 74-3) and disconnect it. Find the yellow 2.0mm wire at terminal #2. Connect a length of 2.0mm or equivalent (14 gauge) wire sufficient in length (about 10 inches) to reach the ECM using a Scotchlok (Part No. 905) to this yellow wire. Do not cut the wire at this relay, you are tapping into this circuit. Reconnect this connector.
3. Route the wire over to the ECM providing clearance from any spots which may chafe the wire. Secure the wire by taping it to the harness.
4. Locate the yellow ECM connector B-48 and disconnect it. Find the yellow/red 0.5mm wire at terminal #15. Cut this wire about 3 inches back from the connector. Using another Scotchlok, attach the other end of the 2.0mm wire from previously installed B-30 to this 3 inch yellow/red wire. Reconnect this connector.
5. Fold over the end of the yellow/red 0.5mm wire that you had cut which is coming out of the harness and tape it.
6. Reconnect the negative battery cable.
7. Clear the ECM memory using the select monitor.

FLAT RATE INFORMATION

ECM UEC-48	A144-551	ECM MEMORY CIRCUIT - MODIFY (Includes testing engine stumble with A/C compressor engaged.)	0.5 hrs.

CAUTION
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