



TECH TIPS

Dixie Part Numbers: S-1409

Applications: 2000 – 2001 Saturn SC, SL and SW vehicles up to VIN 1Z252292

Condition: The operator of the vehicle may complain of one or more of the following *intermittent* conditions:

- The vehicle cranking but not starting.
- The rear wiper (on wagons) being inoperative.
- The rear washer pump being inoperative.
- The speaker(s) cutting in and out.
- The service engine soon staying on.

The technician may find one or more of the following diagnostic codes stored in the system P0447, P0452, P0462 or P1635.

Cause: A potential cause for the above conditions may be that the instrument panel wiring harness could be coming into contact with the left side instrument panel bracket in the left side of the drivers foot area. This could be at the instrument panel to body inline connector as the wiring has been known to chaff in this area.

Correction: Follow the manufacturer's recommended trouble shooting and correction procedures to determine which wires are shorting out (check the fuse first... sorry to state the obvious). For reference:

Issue	Area to check
Rear washer pump not working	- Circuit 392 (dark green wire) - Washer pump switch
Rear wiper not working	- Circuit 393 (white wire) - Wiper switch
Speakers cutting in and out	- Circuit 46 and 115 - dark blue and light blue, rear right speaker - Circuit 199 and 116 - brown and yellow, left rear speaker - Circuit 200 and 117 - light green and dark green, right front speaker - Circuit 201 and 118 - tan and grey, left front speaker
Diagnostic Code P0447	- Circuit 1310 - EVAP vent solenoid control circuit voltage low
Diagnostic Code P0452	- Circuit 890 - fuel tank pressure sensor circuit voltage low
Diagnostic Code P0462	- Circuit 30 - fuel tank level sensor voltage low
Diagnostic Code P1635	- Circuit 416 – 5 volt reference voltage low