

Technical Bulletin

S20TVC-MOD Pillow Speaker Interface Board

This Technical Bulletin explains the replacement of an incorrect resistor value in the PDI-S20TVB-MOD pillow speaker board.



Communication
Systems, Inc.

40 Greenwood Lane
Springboro, Ohio
45066

PH: 937-743-6010

FX: 937-743-5664

<http://www.pdiarm.com>

RX2 Pillow Speaker Resistor Correction

This problem applies to all units produced before January 2003.

Pillow Speaker RX2 Value Correction

This Technical Bulletin explains the replacement of the incorrectly valued resistor on the PDI pillow speaker board mounted inside the S20TVB-MOD. This correction effects all units manufactured before January 2003.

Overview

The Sony's audio output amplifier signal is modified to connect through the PDI pillow speaker board. Audio enters onto this board at J1. A series connected limiting resistance RX2, provides added resistance in addition to the impedance of audio isolation transformer T1. RX2's value is changed to improve the audio amplifiers reliability.

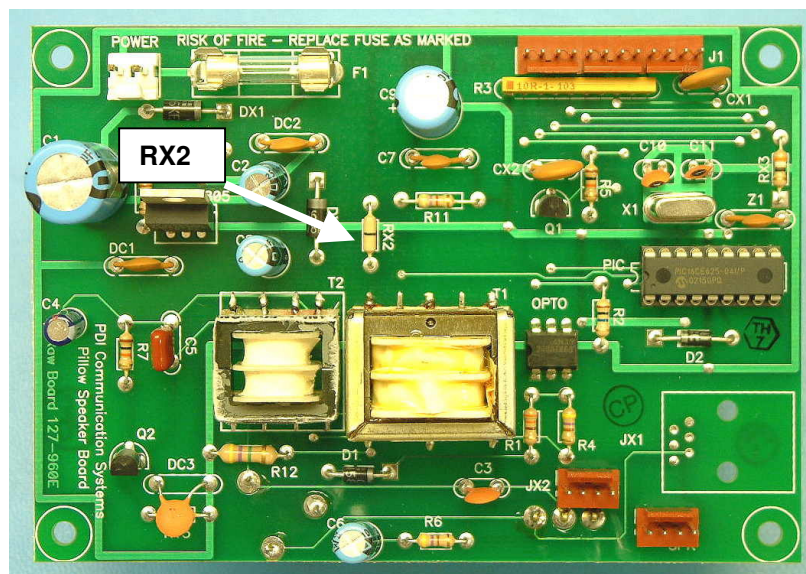
Unit Identification

The effected television will be labeled with the model number PDI-S20TVB-MOD and a manufacturing date before January 2003. The pillow speaker board in question is mounted to the rear cabinet. A close examination of the board will reveal the value of RX2 to be a 1/4 watt resistor with a single black band down the center of the resistor's body. Note: RX2 is located in the center of the pillow speaker board near transformer T1.

Procedure

1. Verify the Television's power cord is unplugged.
2. Remove the back cover. The pillow speaker board is attached to the side of the back cover. Disconnect

Remove single-banded resistor RX2 and replace with 5.1 ohm, 1/4 watt.



attached to the side of the back cover. Disconnect wiring harnesses J1, POWER, and SPK from the pillow speaker board.

3. The board attaches via the jack and audio switch nuts. Remove the pillow speaker from the cabinet side.
4. Find and remove RX2. This resistor is located near T1 and has only a single black colored band around the center of its body.
5. Replace with a 5.1 ohm, 1/4W resistor, part number PD126-321.
6. Reassemble pillow speaker board into television.
7. Reassemble back cover.

Testing

1. Connect an RF cable signal to the TV. Note: TV audio will auto mute if signal is not present.
2. Power the TV. Switch the side mounted "Ext / Int" audio to "Int". Program audio should be heard in the TV's speaker.
3. Connect a compatible pillow speaker and switch to "Ext". Program audio should now be heard in the pillow speaker. The internal television speaker should be quite.

For More Information

If you have questions, please call PDI Communication System's repair department at 947-743-6010 Ext 215.