

Film-Tech

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Dolby Laboratories Inc

Field Bulletin 206

Connection of Solar Cell Boards Including the Dolby Cat. No. 655

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|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> | Modification Urgent |
| <input type="checkbox"/> | Modification Recommended |
| <input type="checkbox"/> | Modification Required on Early Units |
| <input type="checkbox"/> | Modification if Problem is Present |
| <input checked="" type="checkbox"/> | Information Bulletin |

In contrast to traditional solar cells, the Cat. No. 655 and other solar cell circuit boards used by several projector manufacturers are active devices with their own power supply. Some care needs to be given to the wiring between the board and the Cinema Processor in order to avoid grounding problems and to provide immunity to RF interference. In principle, this means separating the audio ground connections and the RF shielding screen connections.

The 0V point (audio ground) must be connected from the basement reader card to the Cinema Processor by a separate wire (or wires) along with the audio signal wires. The cable shield (screen) must be kept separate from the audio ground connections. It must be connected only to the chassis or enclosure of the equipment at each end.

See the following diagrams. There are two connectors on the board. The three pin connector, J1 is used for the power supply. The signal output connector J2 provides six output pins; two each for the "balanced" left and right cell outputs, and two 0V audio ground connections.

Note: The diagrams in this bulletin show the Right channel appearing on pins 1 2 and 3 of the 6-pin connector J2. The physical orientation of the board mounting in the projector and the orientation of the connector body mounting on the board affect which channel appears on which pins of the connector. **Be aware that pin allocations for the channels will vary depending on mounting arrangements of the board and connector.** The J2 connector pin solder hole with a square outline is pin 1.

<u>J2 Pin Number</u>	<u>Signal</u>	OR:	<u>J2 Pin Number</u>	<u>Signal</u>
1	Right +		1	Left +
2	Signal Ground		2	Signal Ground
3	Right -		3	Left -
4	Left +		4	Right +
5	Signal Ground		5	Signal Ground
6	Left -		6	Right -

There must be a connection between the ground pins at the Cat. No. 655 solar cell circuit board and the audio common in the Cinema Processor. This connection must **not** use the shield of the optical input cable, otherwise RF energy can be imposed on the Cinema Processor ground system.

Pin numbers 6 and 9 of each 9-pin D connector ("Projector") on the Cinema Processor allow these connections to be made. The wire that connects either of these pins to the Cat. No. 655 audio ground should pass inside the same shield as the optical input cables and not connect with the shield at any point.

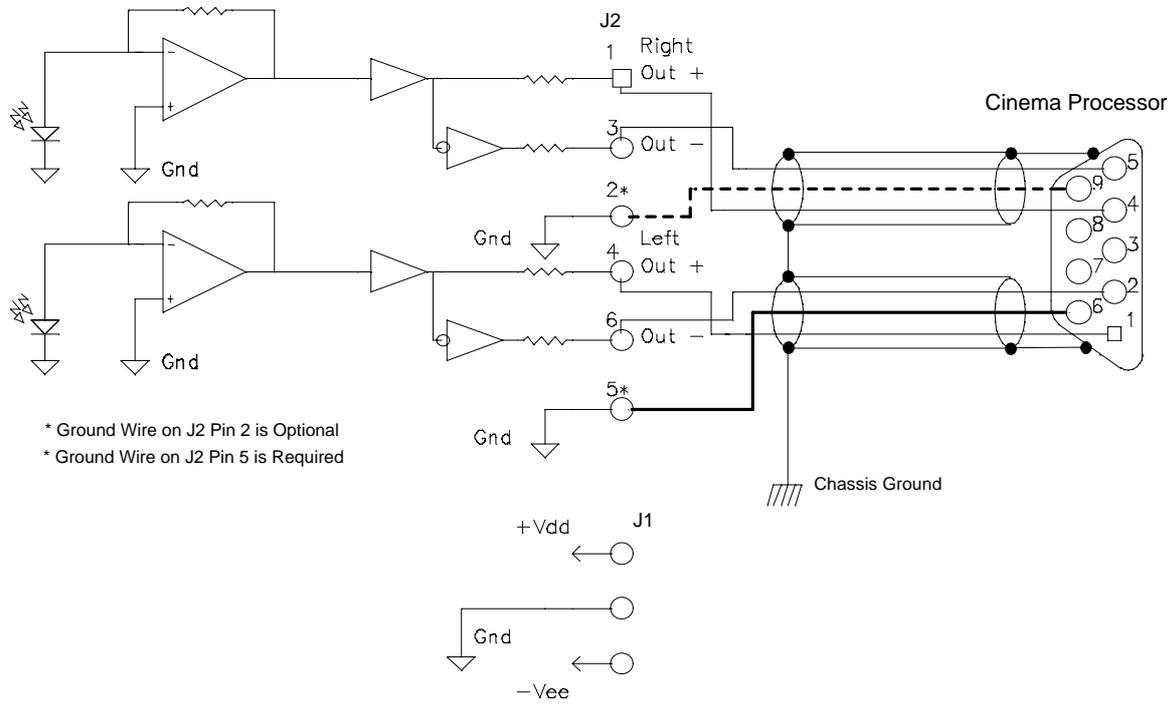


Signal Processing and Noise Reduction Systems

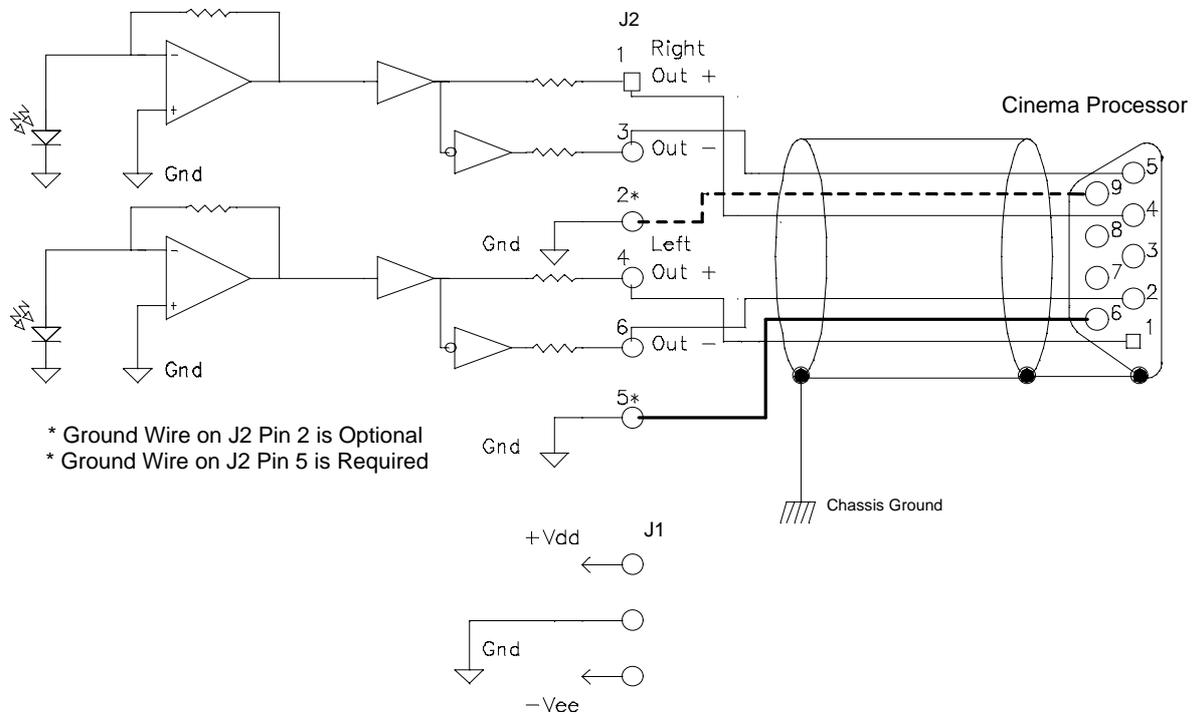
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Wiring using two 3-wire shielded (screened) cables



Wiring using one 5 or 6-wire shielded (screened) cable