Film-Tech

dts	TITLE **XD10P Ground Fix**	NUMBER TN-F441	REV C	PAGE 1 of 2
DEPARTMENT Engineering	CREATED BY: K. Hultgren	EFFECTIVE DATE 4/05/06	APPROVED BY:	

DTS, 5171 Clareton Dr., Agoura Hills, CA 91301   Contact Document Control for the latest revision.

XD10P units produced until April 2006 have an open ground inside the unit. This open ground can produce noise in some installations. In most cases, simply adding a jumper between chassis ground and analog ground on a rear panel Phoenix connector will fix the problem. See Figure 1.

Units produced after April 2006 and after will have the grounds tied together inside the unit. Units produced before April 2006 that are having noise issues, will require a jumper added to the Phoenix connector, as shown below.

Some XD10P shipments in March – April 2006 will come with jumpers pre-installed on Phoenix connectors. Care should be taken when installing the Phoenix connectors to the back of the unit. Please make sure to put the Phoenix connector with the jumper on the left header. Putting the connector on the right header will lock the XD10P into the SR mode.
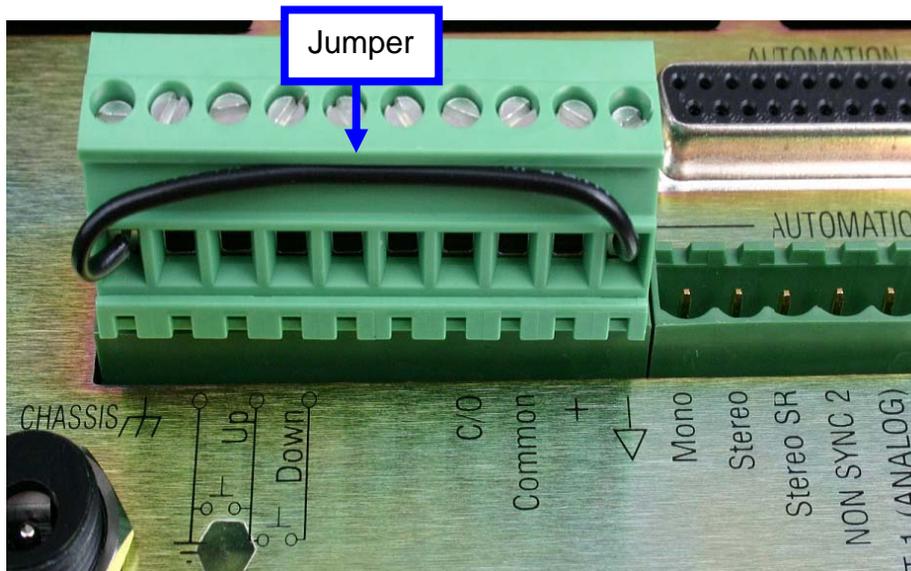

Figure 1

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If the noise persists after adding the jumper between grounds, you must add two RC circuits between the grounds as shown in Figure 2.

- Add a 0.1uF capacitor in parallel with a 10 ohm ¼ watt resistor between chassis and digital grounds (adjacent to each other) on the Phoenix connector.

- Add a 0.33uF capacitor in parallel with a 10 ohm ¼ watt resistor between chassis and analog ground on the Phoenix connector.
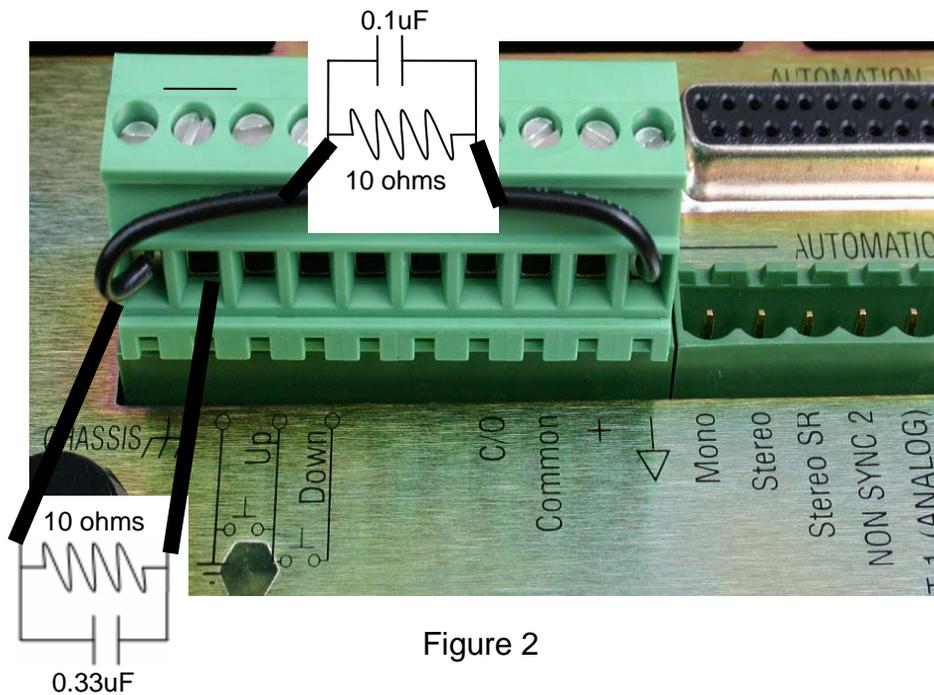

Figure 2

Refer questions to DTS Cinema Technical Support

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