

<b>FSB Number:</b>	<b>FSB-004</b>
<b>Title:</b>	<b>SMPU Capacitor Upgrade</b>
<b>System Description:</b>	<b>B#808(s), B#1208/1209(s) Projectors.</b>
<b>Module/Component Description:</b>	<b>SMPU 2012-0493 (R7621706, R7621065)</b>
<b>Priority:</b>	<b>2</b>
<b>Reference:</b>	<b>BARCO info t 292</b>

<p><b>1 - Essential</b> SEOS Will Supply the Parts free of charge to implement modification</p> <p><b>3 - General</b> Improves the general working conditions</p>	<p><b>2 - Reliability</b> Recommended to improve reliability of the system</p> <p><b>4 - For Information Only</b> General product and company information</p>
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## ***Description***

Replacing C104 and C114 100 $\mu$ F electrolytic coupling capacitors currently rated at 85 $^{\circ}$ C in the base of the power-switching transistor by a 100 $\mu$ F 105 $^{\circ}$ C type.

## ***Reason to apply the modification***

This has been implemented to prevent failure of the power switching transistor (Q101) and LineDriver TDA 4601 (IC 102) fitted to the SMPU.

In certain cases the 100 $\mu$ F electrolytic capacitor C104 and C114 has been found to dry out after a extended operation causing a breakdown of the power transistor (Q101).

We strongly recommend replacing the coupling capacitors C104 and C114 from 85 $^{\circ}$ C by a 105 $^{\circ}$ C type.

In isolated cases the TDA 4601 LineDriver (IC 102) may also be damaged and may need replacing.

In such cases the SMPU will not start after replacing the transistor and coupling capacitor.

This modification is carried out as part of our standard repair procedure for failed SMPU's returned to SEOS Displays Ltd. for repair under the RMA agreement.

***How to check if this modification should be applied***

Check that C104 and C114 are rated at 105°C.

***Solution***

If C104 and C114 are rated at 85°C replace them with 100µf electrolytic capacitors with a temperature rating of 105°C.