

# Service Information

## 1. Picture size modulation

In the 33" sets picture size modulation may occur. In sets with a serial number beginning with AG00 this problem can be solved by modifying the following components:

Picture tube panel:	C2708 becomes 330pF 5322 122 31842
High end-box:	R3264 becomes 220 $\Omega$ 4822 051 10221
Small signal panel:	R3304 becomes 100 $\Omega$ 4822 051 10101

## 2. Introduction V16 software

New software has been introduced during production. This software has been applied in sets with serial numbers beginning with AG03 or higher. The software on this panel has one language cluster and is compatible with the V12 and V13 versions. **CAUTION:** In this software option bit 3 of option code 2 (selection of scandinavian languages) has been dropped.

This means that option bit 3 of option code 2 must always be set at 0.

The situation is now as follows:

- for AG00 and AG02;  $\mu$ P panel 4822 212 23705
- for  $\geq$  AG03:  $\mu$ P panel 4822 212 23894

## 3. 16/9 status recognition

The 16/9 status recognition is not specified in the first FL1.1 sets. In order that the 16/9 status of a video recorder can be recognised, sets with serial numbers beginning with AG00 to AG05 should be modified as follows:

R3188 becomes 2k2	4822 051 20222
R3191 becomes 62k	4822 116 81202

This modification will be introduced in production as from AG06.

## 4. Brightness variations in picture

A possibility exists that brightness variations may appear in the FL1.1, caused by clamping errors from the TDA 4660. The fault can clearly be seen with reduced picture width (horizontal stripes can be seen in the top of the picture). This can be rectified by modifying the following components:

R3383 becomes 33k	4822 051 10333
R3390 becomes 820 $\Omega$	4822 051 10821

These modifications will be introduced in production as from week 9144.

## 5. Modification large signal panel

In order to improve the geometry of NTSC reproduction the large signal panel has been modified.

The circuit diagram and the print layout will be published in the service manual FL1.1 AB. This panel will be introduced in sets with a serial number beginning with AG05 or higher.

- geometry panel:	4822 212 23892
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