

Meridian 568 Diagnostic Displays.

V1.0 JMB, 13/7/99.

Normally the 568 has the following display options;-

Blank	
Trifield	65
Trifield	-22
CD	65
PCM	44k

In addition there are options for Multiroom source displays and diagnostics. To switch diagnostic displays on or off, hold down the STORE button (in standby) until the unit responds by displaying 'Diag. On'. Once activated there are four additional displays available when pressing the DISPLAY button, these are;-

FIFO diagnostics
DSP diagnostics
SETUP diagnostics
SOURCE diagnostics

FIFO diagnostic displays

The numbers shown represent various important parameters used by the data locking device. The most useful for diagnostic purposes are the highlighted characters.

99 NFD080212

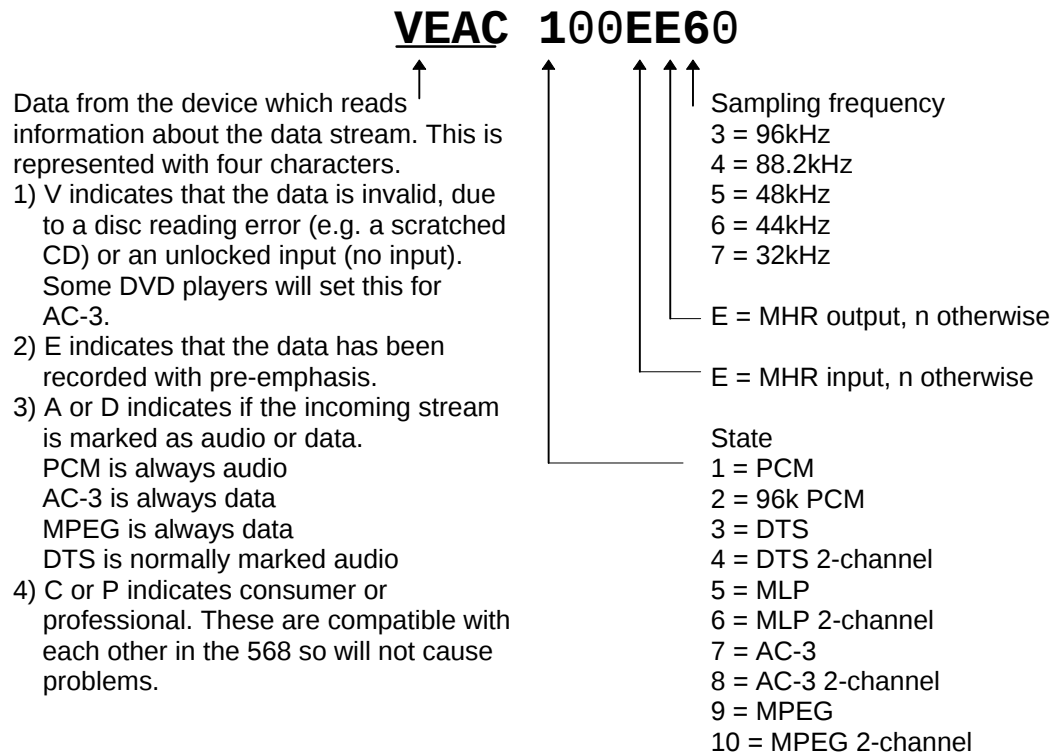
This character will be F or X .
F means that the 568 is reclocking the input data in order to eliminate jitter. X means that the 568 is not reclocking. This is either because the source has a poor clock or the sampling frequency is 32kHz.

These four figures show how much of the input buffer is being used. It continually changes in value as the 568 reclocks the input signal. If the numbers reach zero or become very large then F will change to X. This may happen during playback and will result in an audible glitch.

If a digital source frequently causes a glitch during playback then it is worth checking this display. The four figure number may be varying over a wide range while that source is selected, meaning that at some time F will switch to X. It is possible to pre-empt this by configuring the 568 to switch to X whenever that source is selected. To do this go to the advanced section of the sources menu and tick the box 'poor digital audio source'. The 568 will no longer try to reclock that source.

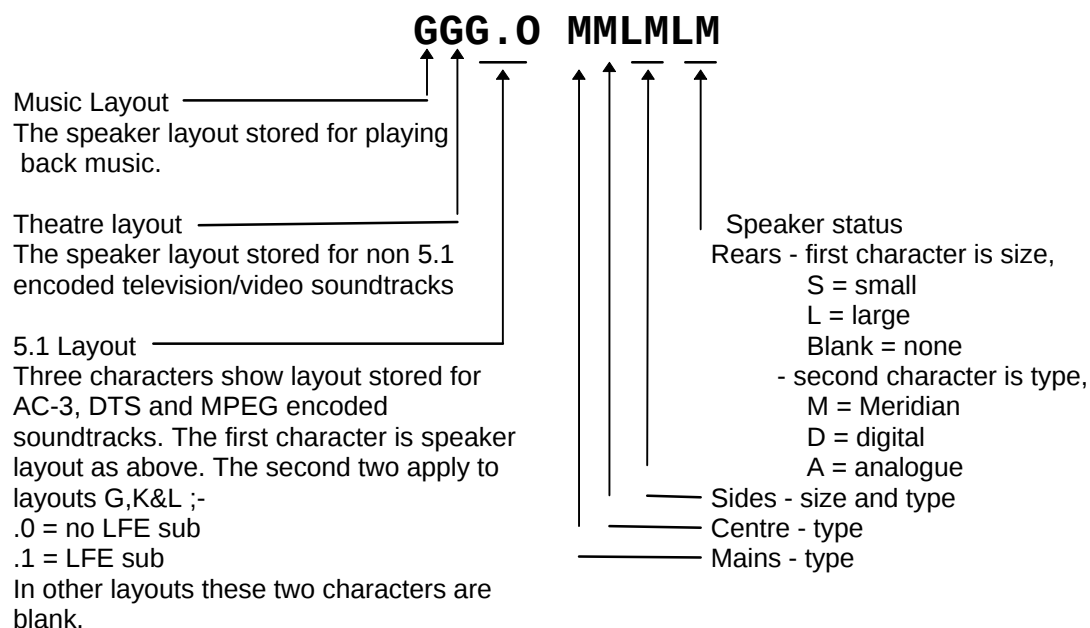
DSP diagnostic displays

This set of figures show how the DSP controller is interpreting the incoming data stream.



Setup diagnostic displays

These figures are an encoded description of the speaker setup and layout. They are duplicated from the 'advanced' speaker layout section of the Meridian.exe configuration program. All letters correspond directly to those of the 565 layouts.



Source diagnostics

This display shows the setups specific to the currently selected source.

