11. Performance Check

11.1 General Information

The PT 5211 (incl. options) is an instrument that requires no adjustments. However, signal switching should be checked at **ALL** signal In- and Outputs of the instrument.

Test Equipment:

Oscilloscope	: e.g. PM 3094
SDI Generator	: e.g. PT 5210 plus PT 8609
Video Generator	: e.g. PM 5640A
Color Monitor	: e.g. BARCO CVM-22B
Digital Sync Generator	: e.g. PT 5210
CAV Converter	: e.g. Miranda SDM-110

11.2 Basic Instrument

11.2.1 Signal In - and Outputs

1. Video performance

- Connect video sweep signal from a Video Generator to "IN1".
- Then connect the corresponding output ("OUT") to an Oscilloscope terminated with 75 Ω.
- Check that the corresponding "ON AIR" LED on the Front Panel is lit.
- Check the video performance.
  The amplitude loss in the 0-20MHz frequency range should be less than 0.5dB.
- Connect video sweep signal from a Video Generator to "IN2" of the same signal switch.
- Select other input, first press **HOLD TO MODIFY** plus **MANUAL** (SOURCE SWITCHING) pushbutton on the Front Panel, LED in "MANUAL" is lit, then press **HOLD TO MODIFY** plus **SYNC GEN. 2** (PRIMARY) pushbutton on the Front Panel to select other input.
- Check that the corresponding "ON AIR" LED on the Front Panel is lit.
- Check the video performance.
  The amplitude loss in the 0-20MHz frequency range should be less than 0.5dB.

2. SDI performance

- Use an SDI Generator and Monitor Receiver in stead of a Video Generator and an Oscilloscope.
- Check that the SDI signal is transmitted and received with no errors.

11.2.2 Front Panel

- Press the **HOLD TO MODIFY** pushbutton together with each of the other five pushbuttons, one at a time, to check for correct performance and for correct LED indication.

11.2.3 Automatic Changeover Function

- Connect two PT 5210 Sync Generators to the "PT5210-1/2" control input of the PT 5211 using the correct interconnection cable.
- Set the PT 5211 to AUTO mode.
  Press **HOLD TO MODIFY** plus **AUTO**, LED in "AUTO" pushbutton is lit.
- Connect video or SDI signals to the BNC inputs ("IN1" or "IN2").
- Check that the PT 5211 will changeover to the second Sync Generator if the first one is switched OFF and vice versa.

11.3 PT 8617 - BNC Option

For performance check instructions for this option see performance check of the basic PT 5211.

11.4 PT 8618 - XLR Option

Test Equipment:

AES/EBU Audio Gener. : e.g. PT 5210
plus PT 8605

AES/EBU Audio Monitor : e.g. Tek 764

1. Digital Audio Performance

- Connect a digital signal from an AES/EBU Audio Generator to the "IN 1/2" input using the correct interconnection cable.
- Then connect the corresponding output connector ("OUT") to an AES/EBU Audio Monitor.
- Check that the corresponding "ON AIR" LED on the Front Panel is lit.
- Use the monitor to check that the audio is transmitted with no errors.

- Connect a digital audio signal from an AES/EBU Audio Generator to the other "IN 1/2" input using the correct interconnection cable.
- Then connect the corresponding output connector ("OUT") to an AES/EBU Audio Monitor.
- Select other input, first press
  HOLD TO MODIFY plus **MANUAL**
  (SOURCE SWITCHING) pushbutton on the Front Panel, LED in "MANUAL" pushbutton is lit, then press
  HOLD TO MODIFY plus **SYNC GEN. 2**
  (PRIMARY) pushbutton on the Front Panel.
- Check that the corresponding "ON AIR" LED on the Front Panel is lit.
- Use the monitor to check that the audio is transmitted with no errors.