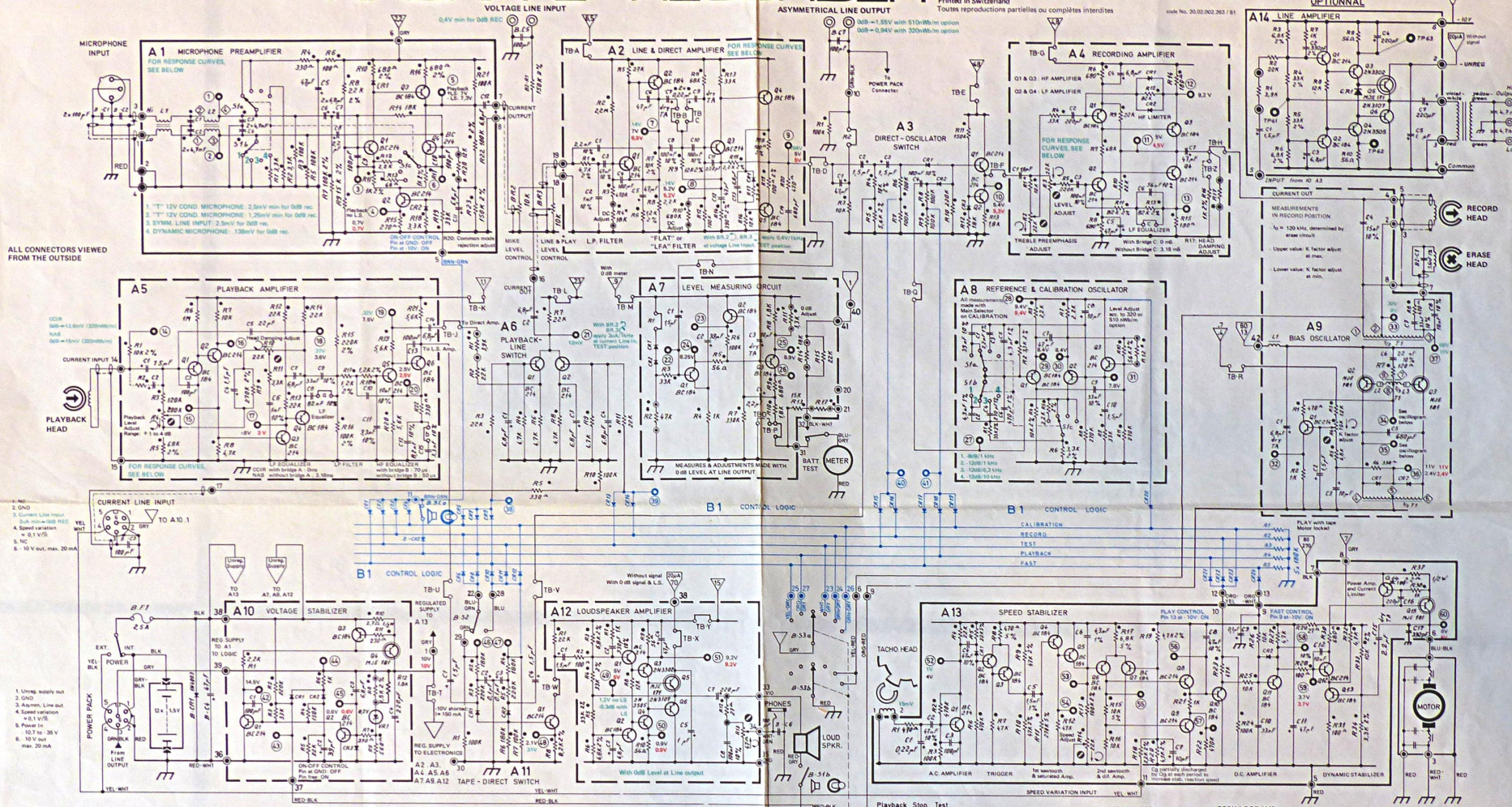


NAGRA E RECORDER

KUELSKI SA 1033 CHESEAUX SWITZERLAND TEL (021) 81 21 21 TELEX 24 382
Printed in Switzerland
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Date No. 20.02.02.263 / 81



ALL CONNECTORS VIEWED FROM THE OUTSIDE

1. NC
2. GND
3. Current Line Input 2.5mV max for 0dB REC
4. Speed variation +0.1 V/V
5. NC
6. 10 V max. max. 20 mA

1. Unregulated input
2. GND
3. 4.5V max. Line input
4. Speed variation +0.1 V/V
5. Power to 10.7 to 38 V
6. 10 V max. max. 20 mA

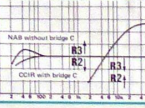
COLOR CONVENTIONS & SYMBOLS

- Electronics and D.C. measurements made with D.C. voltmeter, 40 kΩ/V or more
- Logics, with operation states
- A.C. measurements made with A.C. electronic voltmeter according to conditions indicated in the circuit concerned
- D.C. measurements made with internal voltmeter
- Unregulated supply with indication of current consumption in mA unless otherwise stated
- Regulated supply with indication of current consumption in mA unless otherwise stated
- GROUND: depending on its origin, the ground wire may be red, or red/white
- Circuit terminal: wired input or output with color code
- Test Point: numbered, with color-coded measuring input position

HOW TO USE THE INTERNAL VOLTMETER

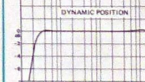
1. D.C. measurement printed in red are made as follows:
2. Insert probe on pin 21
3. Move the bridge from TB.P to TB.O
4. Touch the test points with probe tip and read value on the volt scale of the meter

RECORDING AMPLIFIER

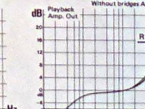


RESPONSE CURVES

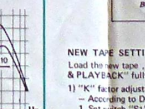
MICROPHONE PREAMPLIFIER



PLAYBACK NAB



PLAYBACK CCR

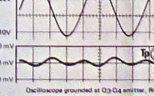


NEW TAPE SETTING

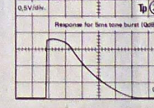
1. Load the new tape, put Main selector on "CALIBRATION" and turn level control "LINE & PLAYBACK" fully clockwise
2. Set switch "S1" (Main P.C. Board) on 1 kHz - 12 dB position
3. Note: If needle overshoots the scale, decrease level by turning R2 (on Recording Amp.)
4. Turn trimmer R4 ("K" factor adjust) to obtain the maximum voltmeter deviation. This trim further anticlockwise to decrease the level by 3dB with regard to maximum deviation
5. According to Nagra standard
6. Same as above
7. Note: If needle overshoots the scale, decrease level by turning R3.
8. Turn trimmer R4 ("K" factor adjust) to obtain the maximum deviation (K=1)
9. Frequency response adjustment
10. Set switch "S1" (Main P.C. Board) on 1 kHz - 12 dB position. Turn R3 on Recording Amp. to obtain 0 dB on the voltmeter
11. Set switch "S1" on 10 kHz - 12 dB position, and check that the pointer indicates 0 dB on the voltmeter
12. Set switch "S1" on 6.3 kHz - 12 dB position, and check that the pointer indicates 0 dB on the voltmeter
13. When adjustment is over, reset switch "S1" on 1 kHz - 8 dB position.

OSCILLOSCOPE

BIAS OSCILLATOR

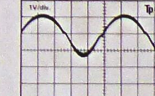


LEVEL MEASURING CIRCUIT



OSCILLOSCOPE

SPEED STABILIZER



OSCILLOSCOPE

