































-  Amplifier
-  Amplifier (8-stage)
-  DC amplifier
-  Amplifier with AGC
-  Sum amplifier
-  Color amplifier
-  PAL phase converter
-  90° phase rotation
-  Phase adjuster
-  Oscillator
-  AM demodulator
-  FM demodulator
-  Synchronous demodulator
-  Phase comparator
-  Schmidt trigger
-  Gating stage
-  Pulse processing (sandcastle pulse)
-  Gating impulse preparation
-  Blanking
-  Black value clamping brightness adjustment
-  Pulse cut-off stage
-  Capture range switch
-  Color killer
-  Signal gating
-  Muting circuit for TV audio
-  Flip-flop
-  Matrix
-  ACC rectifier
-  Voltage stabilization
-  Synchronization

Safety regulations

Service work on television receivers may be carried out only by skilled specialists. The unit should be powered with an isolating transformer when doing so.

The safety regulations as per VDE 0880 H are to be observed unconditionally during repairs. Among these are:

- The design characteristics of the receiver may not be modified in such a way as to reduce operational safety; examples: air covers, cages, mechanically protected cables, air gaps, leakage paths.

- Components - such as non-flammable resistors (NF), fuses, resistors between metal parts which can be touched and dangerous voltages (such as switch contact sensors), fuses, etc. - should be replaced only with original-equipment parts; they must be installed so that after the repair the unit corresponds to the plate in which it left the factory.

Sets incorporating this chassis need the X-ray emission regulations of T March 1973. When making repairs, insure that maximum high-voltage value in no case exceeds 27.5 kV! This is guaranteed when voltage U₁ is 118.5 V and the picture is not of an abnormal size.

Important! Even when the line switch is off, receivers with built-in clocks are energized!

After completing repairs, it must be ensured that all conductor components which can be touched from the outside cannot carry line voltage.

Important!

Voltage specifications:  in the video module with the service switch in its "service" setting. Correct adjustment of the red, green and blue working points is a prerequisite.

Abbreviations:

- ohne = voltage independent of input signal
- o.S. = without signal
- m.S. = with signal, input voltage approx. 2 mV
- m.AV = with AV signal
- o.AV = without AV signal
- V_{max} = V_{max}
- BAS = Stop
- BA = CB

-  Non-flammable
-  NON-FLAM
-  Fusible

Oscillograms

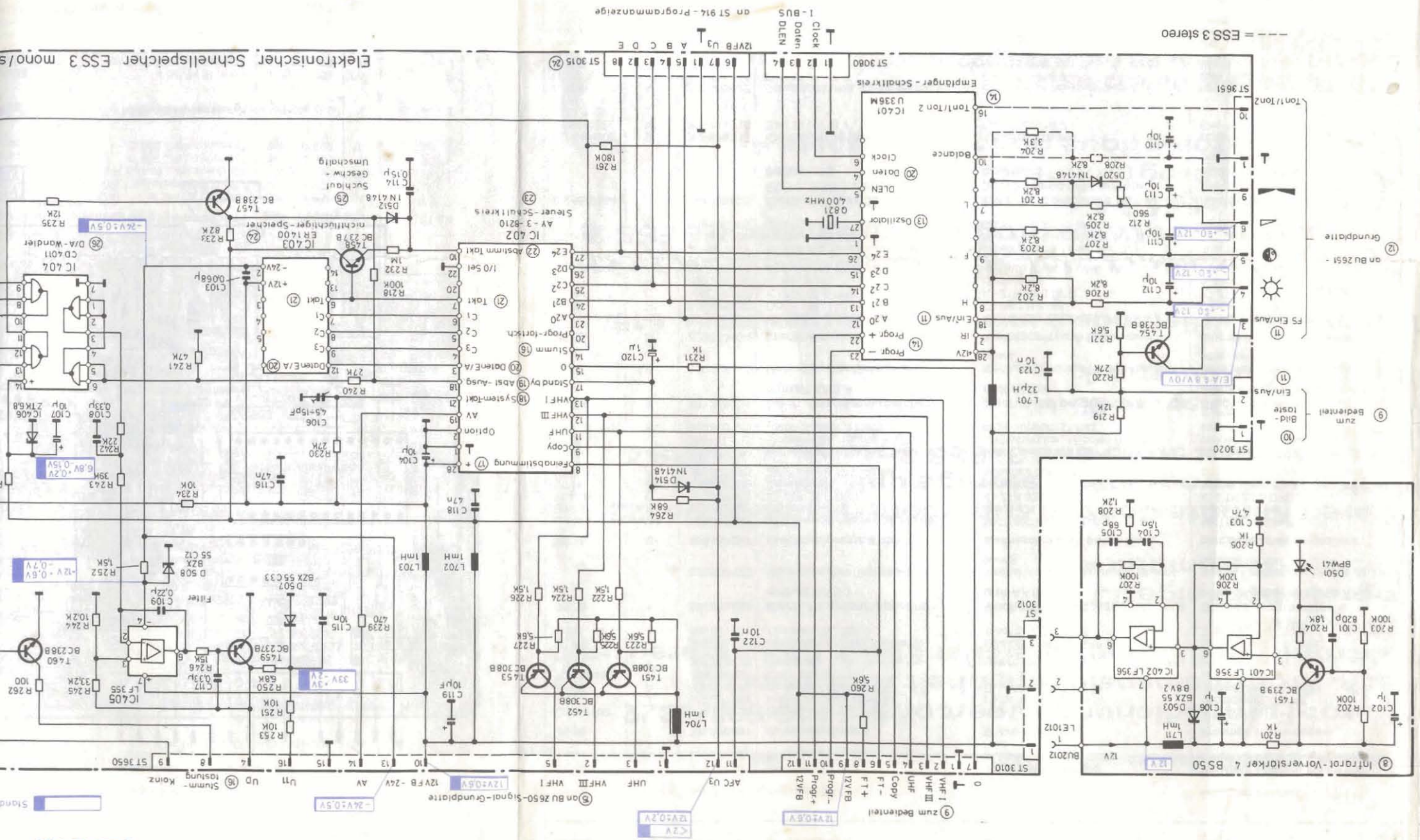
Oscillograms shown in the circuit diagram with cover bar signal (white = 100%, color saturation = 75%), input voltage approx. 2 mV.

Use tuner to set gain bar at 1.4 V_{pp}.

Set brightness, contrast, and color controls for normal picture. DC voltages measured at 220 V line voltage. When not otherwise stated, all measurements made with multimeter R1 = 50 kOhm/V.

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--- ESS 3 stereo

on ST 914-Programmanzeige

1-BUS
Clock
Daten
DLEN

zum Bedienteil
 Bild-
 Ein/Aus
 FS Ein/Aus
 Grundplatte -
 on BU 2651 -

Ton1/Ton2

Empfänger - Schallkreis
 ST 3080

ST 3015

IC 402
 AV-3-8210
 Steuer-Schaltkreis

IC 401
 U336M
 Ton/Ton 2

IC 405
 LF 355

IC 402
 LF 356

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