

Kjeller 12. April 1984

Information No: 840412

Tandberg A/S
Fetveien 1,
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Product: TPT 3011

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Front End modification

From serial No. 1700 an adjustment of L106 is introduced. The part No. on the new L106 is 401141. At the same time C117 is changed to 3.3 pF NPO and C123 is left out.

Oscillator adjustment

Turn the tuning knob to the lowest frequency (end position) on the dial.

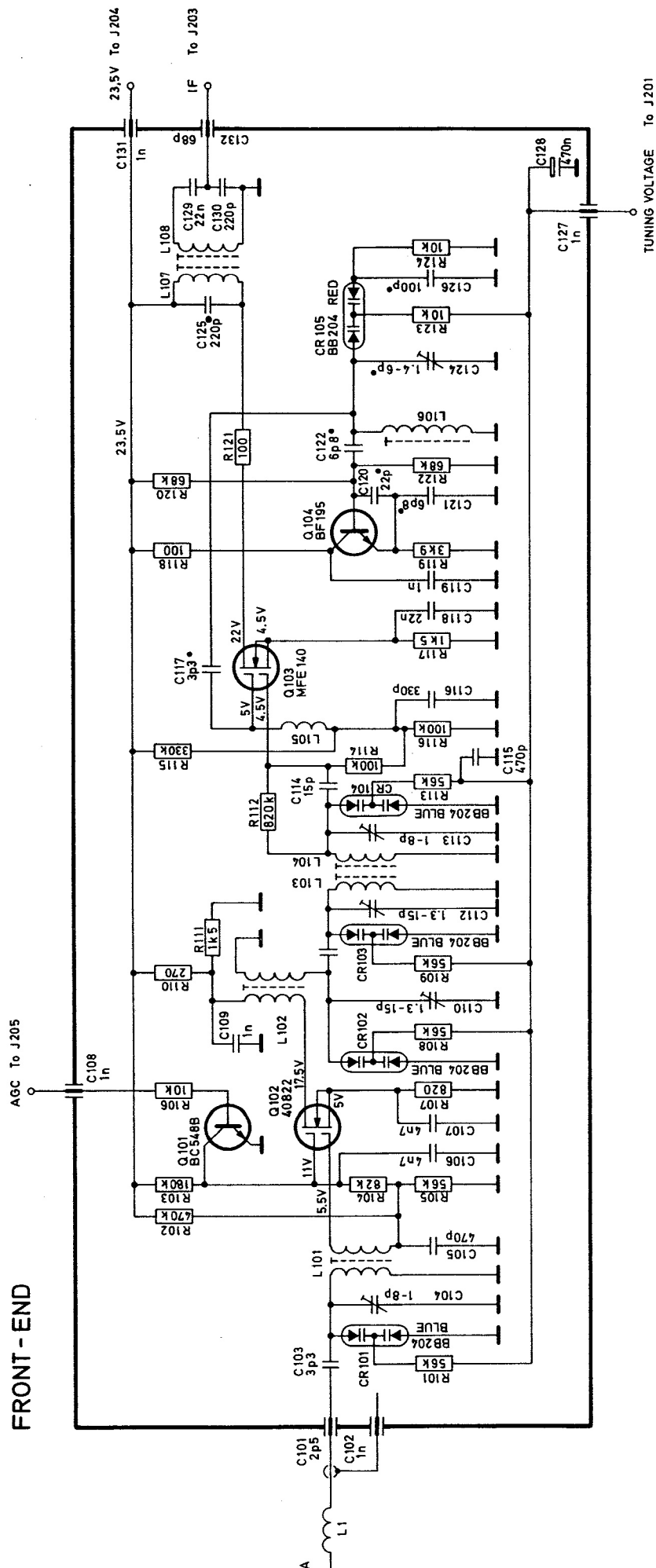
- Adjust R202 to 3 V measured on J201.
- Turn the tuning knob until you read 4 V on the voltmeter, set the pointer to the 90 MHz mark on the dial and seal the pointer.
- Adjust L106 to 90 MHz at the 90 MHz mark*.
- Turn the tuning knob to the 105 MHz mark on the dial.
- Adjust C124 to 105 MHz on the oscilloscope*.

* See FM alignment procedure page 8 in Circuit Diagrams and Alignment Instructions.

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FRONT-END



- C117 NPO
- C120 NPO
- C121 N750
- C122 N750
- C125 NPO
- C126 100 p N1500
- C124 p.No. 263501
- 3.3 p NPO
- 22 p NPO
- 6.8 p N750
- 6.8 p N750
- 220 p NPO
- 100 p N1500

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Kjeller: March 29, 1984

Information No. 840328

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Product: TPT 3011 and TPT 3011A

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Change to new circuit

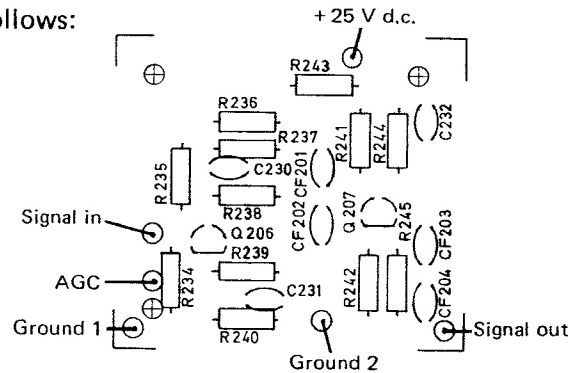
The IC-circuits UA 703 HC and HA 1201 are no longer available from our Spares Department. Those circuits are replaced by a new p.c. board (Selectivity board), part No. 997007.

Before replacing UA 703 HC or HA 1201 with the Selectivity board, remove the following components on the main board:

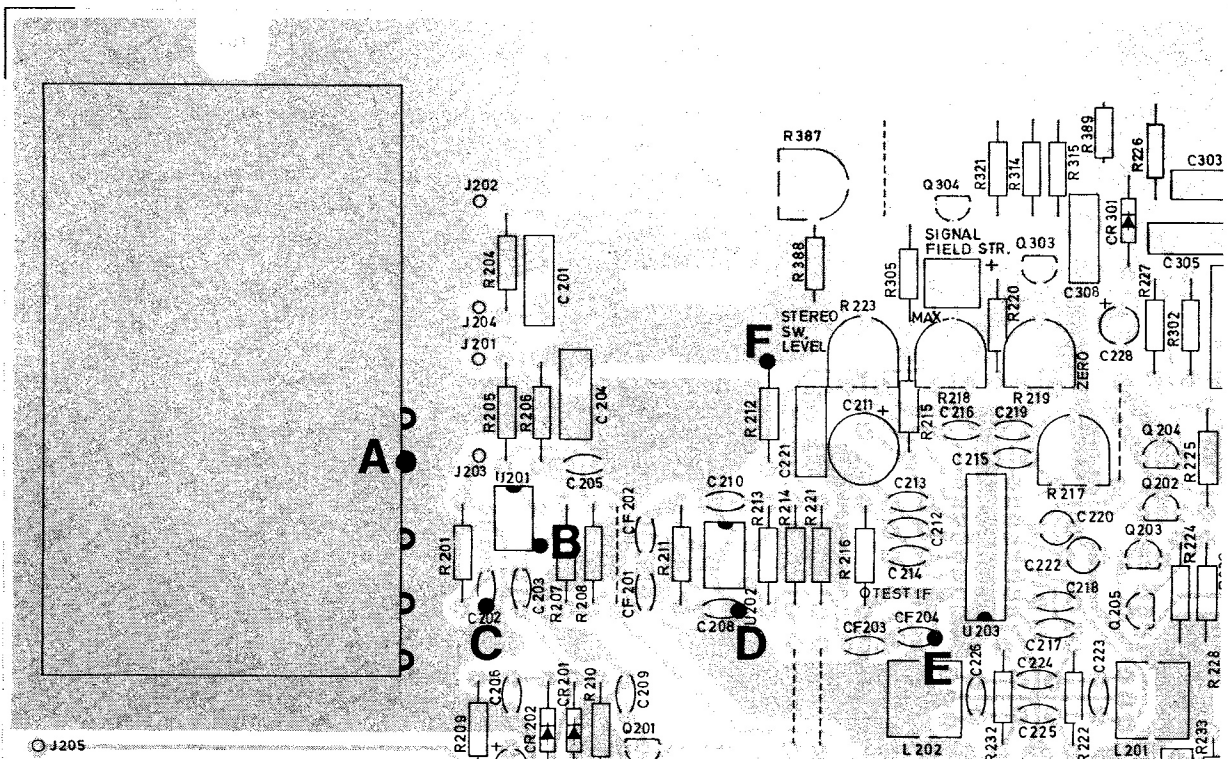
U 201	R 201	R 211	C 202	CF 201
U 202	R 206	R 212	C 205	CF 202
	R 207	R 213	C 208	CF 203
	R 208		C 210	CF 204

When replacing the IC-circuits the procedure is as follows:

Selectivity board	Main board
Connect:	to the point marked:
Signal in	A
AGC	B
Ground 1	C
Ground 2	D
Signal out	E
+ 25 V d.c.	F



Selectivity board, component side



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Kjeller: 16th June 1983

Information No: 830616

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Product: TPT 3011

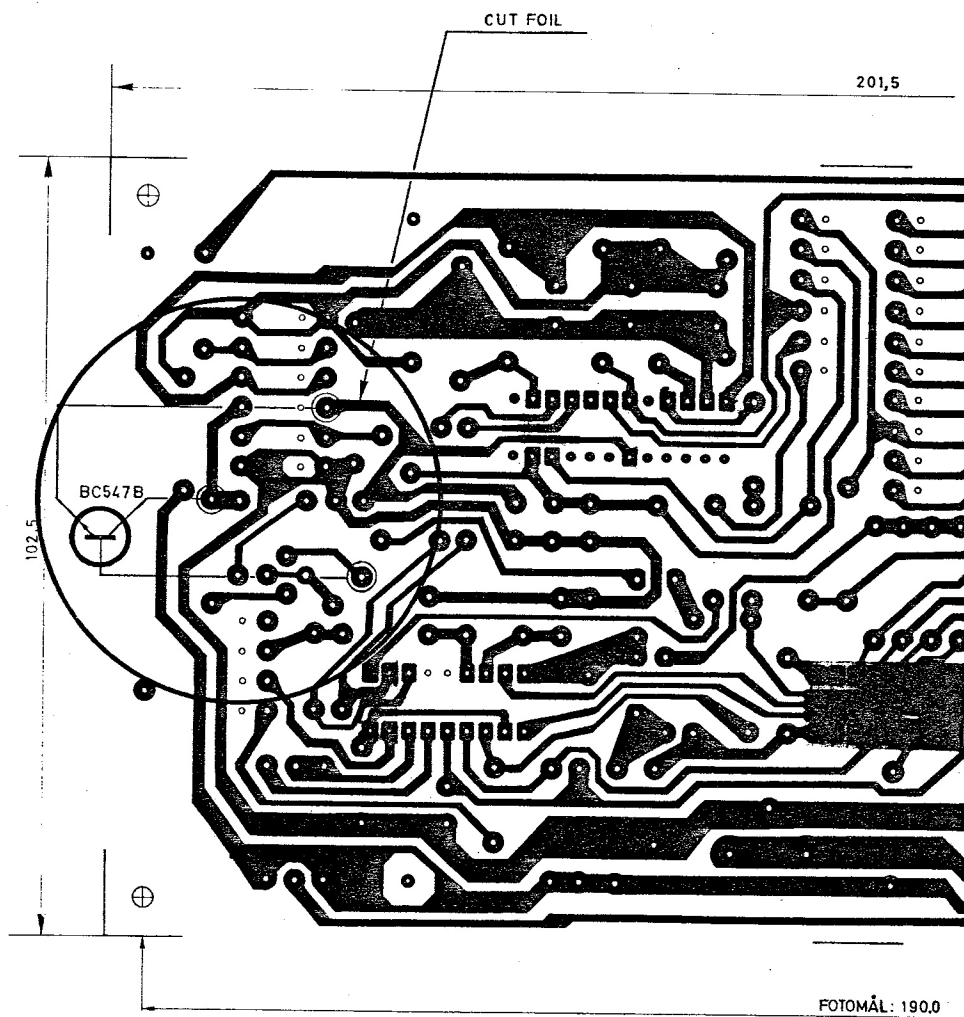
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MODIFICATIONS

Introduced from serial No.	Symptom	Modification
350	Drifting	Front end: Change C125 to a capacitor with temp. coeff. NPO. Selectivity: Change C223 and C226 to a capacitor with temp. coeff. NPO.
400	Increased sensitivity for switching from Pre-set to manual tuning (Tuning sense circuit).	Main board, remove the following components: R344, R345, R346, R347, R348, R349, R350, R351, R352, U302, C329, C330, C331, C332, C333, C334, C335, CR306, CR307, CR309 and CR310. Connect a 16 pins IC-socket instead of U302 and plug in a new PC-board, part No. 997005 faced to the front end box (turned away from the fly-wheel). Solder the wire on the PC-board to the flat spring close to the fly-wheel.
590	Overheat control of U1002	Tuning system 2: Install separate current generator for U906 (tun. syst. 1), consisting of one transistor, BC547B coupled according to diagram, and change the value of R1037 to 270 ohm. Cut the PCB foil near the emitter connection of BC547B as shown in the PCB drawing.

Tor Andresen (sign.)
Product Manager

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Kjeller: 10th November 1982 Information No: 821109

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CHANGE TO NEW IC-CIRCUIT

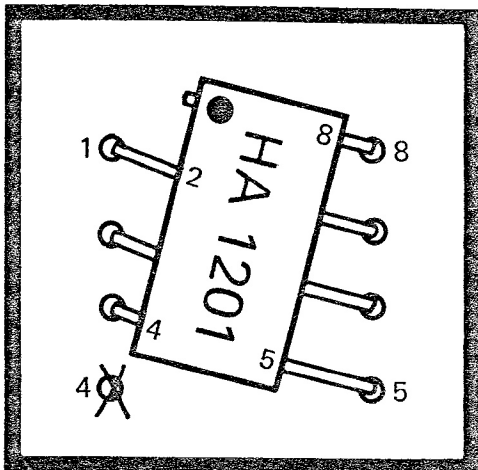
Circuit UA703HC is no longer available from our Spare Parts Department.
This IC-circuit is replaced by HA1201, part No. 417824, (U201 and U202).

When you must replace UA703HC with HA1201, the following change must be done:

Cut off leg No. 1 on the IC-circuit.

Put the legs No. 5-8 into the holes 5-8.

Then turn the circuit slightly (see figure) so that hole No. 4 in the PC-board is not used and enter the three legs No. 2-4 as shown in the figure.



Tor Andresen (sign.)

Per Brøndshøi (sign.)

Kjeller: 5. April 1984

Information No: 840405

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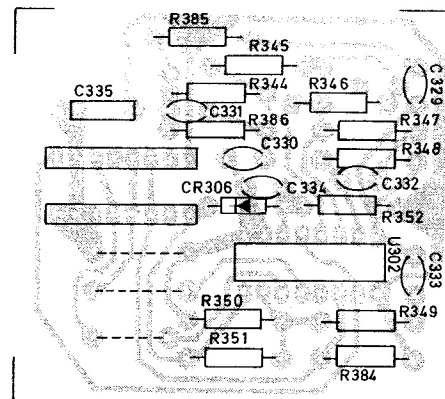
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Tuning sense circuit (touch sense circuit)

These modifications give increased sensitivity for switching from pre-set to manual tuning and are less sensitive for temperature variations.

1. Receivers with serial No. up to 0400. See information No. 830616 (Main board, plug in a new pc-board part No. 997005).

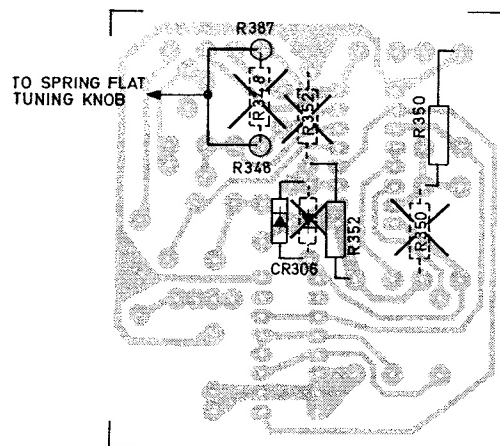


Touch sense board, component side

In addition to the previous modification we will also recommend you to do the following modification on the tuning sense board as shown in the figure. This modification makes the receiver less sensitive for external radiation fields.

- CR306 is turned in opposite direction
- R350 and R352 are connected as shown in the figure
- R348 is replaced with 2 pcs. of 330 kohms and a wire is soldered to the center of the two 330 kohms.

The other end of the wire is connected to the flat spring behind the flywheel on the tuning knob.



Touch sense board, component side

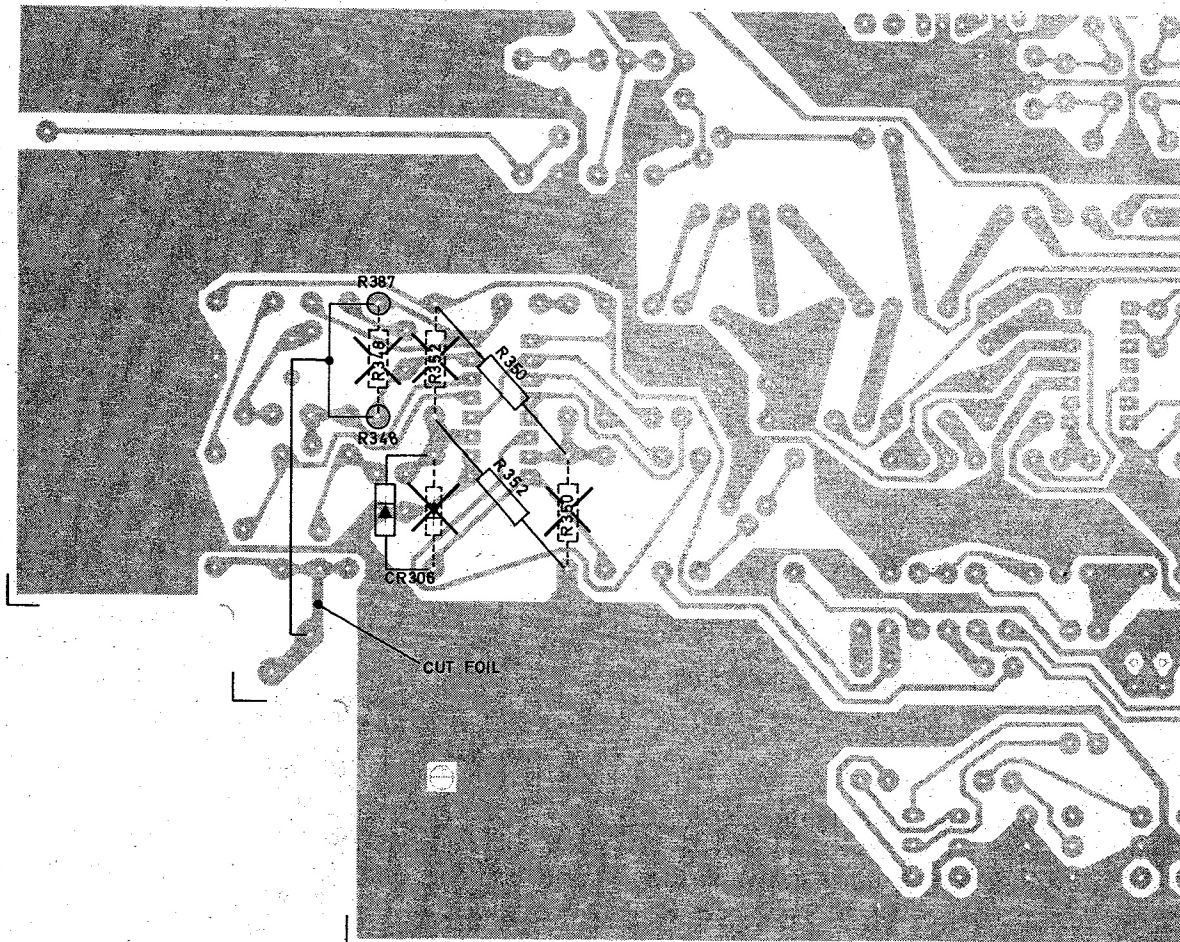
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2. This modification also makes the receiver less sensitive for external radiation fields.

On receivers with serial No. from 0400 to 1600 following modifications should be carried out:

- CR306 is turned in opposite direction
- R386, change the value to 47 kohm
- R344, change the value to 1 Mohm
- R345, change the value to 1 Mohm
- R346, change the value to 820 kohm
- R347, change the value to 680 kohm
- R349, change the value to 330 kohm
- R348 is replaced with 2 pcs. of 330 kohms and a wire is soldered to the center of the two 330 kohms. The other end of the wire is connected to the flat spring behind the flywheel on the tuning knob and the foil is cut as shown in the figure.



Part of main board, component side

Kjeller: 11. April 1984

Information No: 840411

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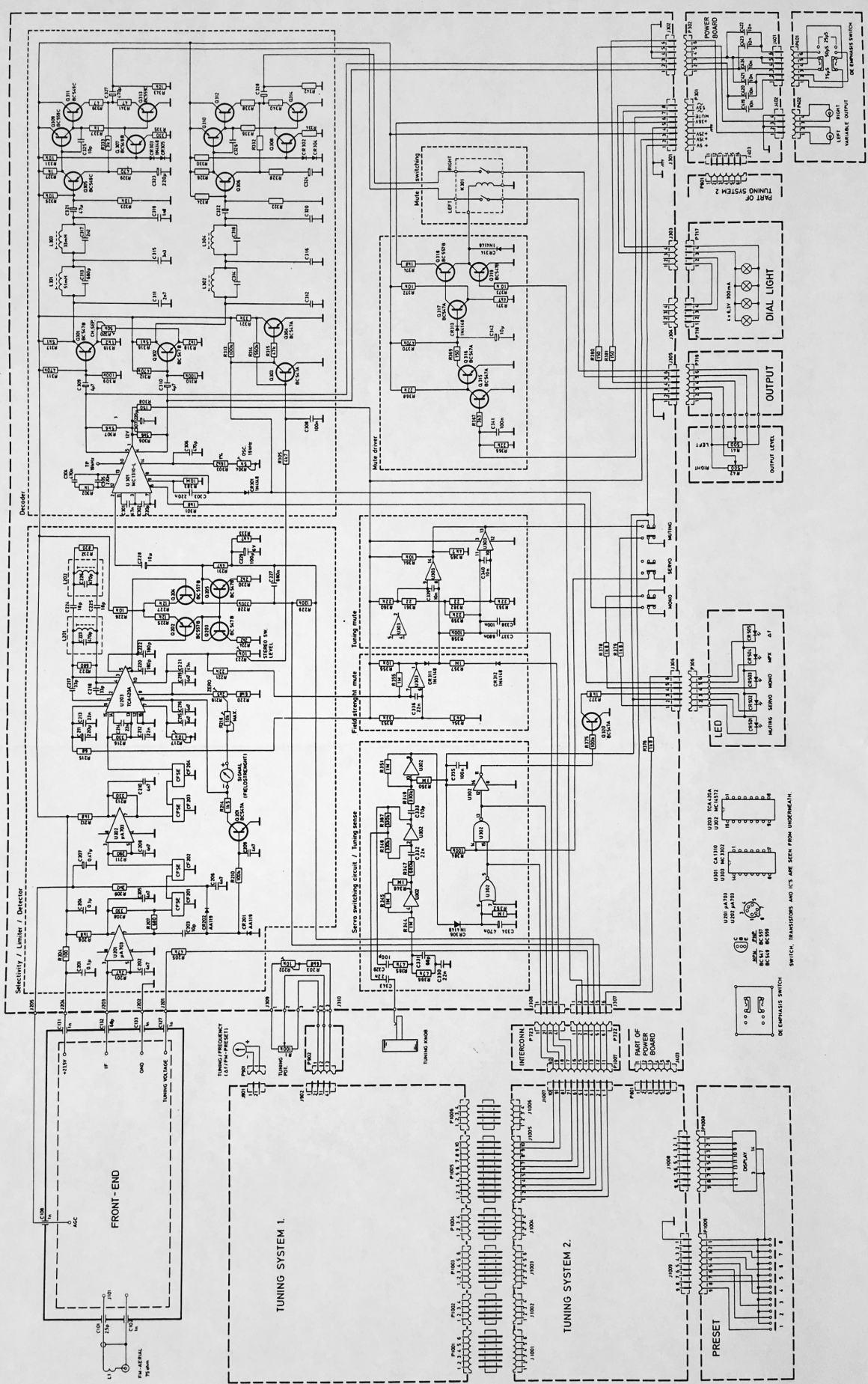
38 kHz adjustment

Due to variation in the 38 kHz trap in U 301 – MC 1310L an adjustment is introduced from serial No. 2050.

Apply a 500 μ V unmodulated stereo signal and measure on the output with a selective – or a wide band voltmeter and adjust R 387 to minimum reading.

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Main circuit diagram TPT 3011



U001 65110
 U002 MC1302
 U003 4120
 U004 4120
 U005 4120
 U006 4120
 U007 4120
 U008 4120
 U009 4120
 U010 4120
 U011 4120
 U012 4120
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SWITCH, TRANSISTORS AND IC'S ARE SEEN FROM UNDERNATH.

DE EMPHASIS SWITCH