

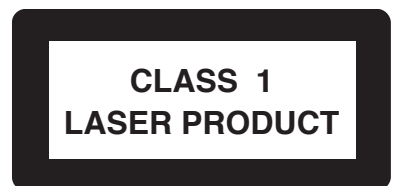
Service
Service
Service



Service Manual

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3141 785 30861



SERVICE TEST PROGRAM

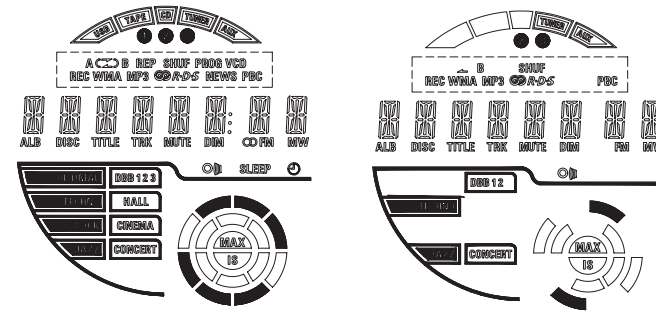
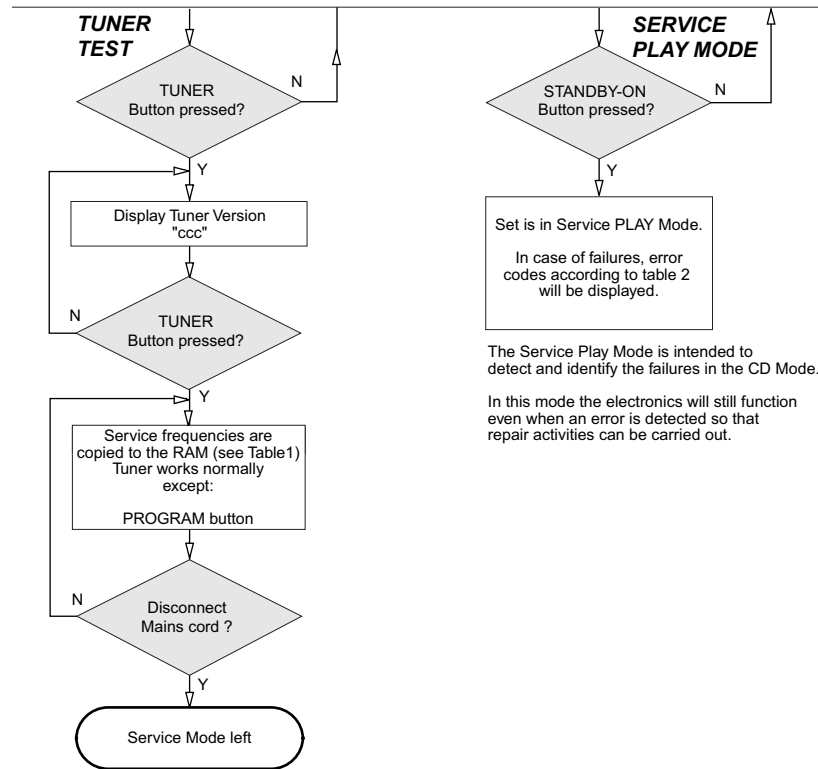
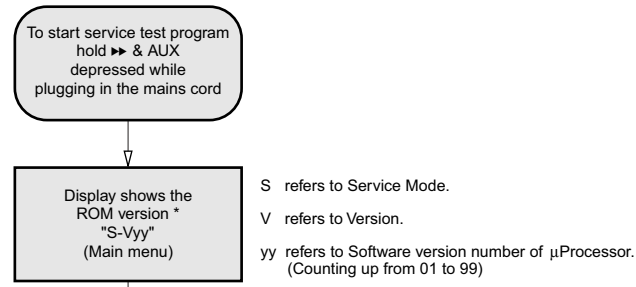
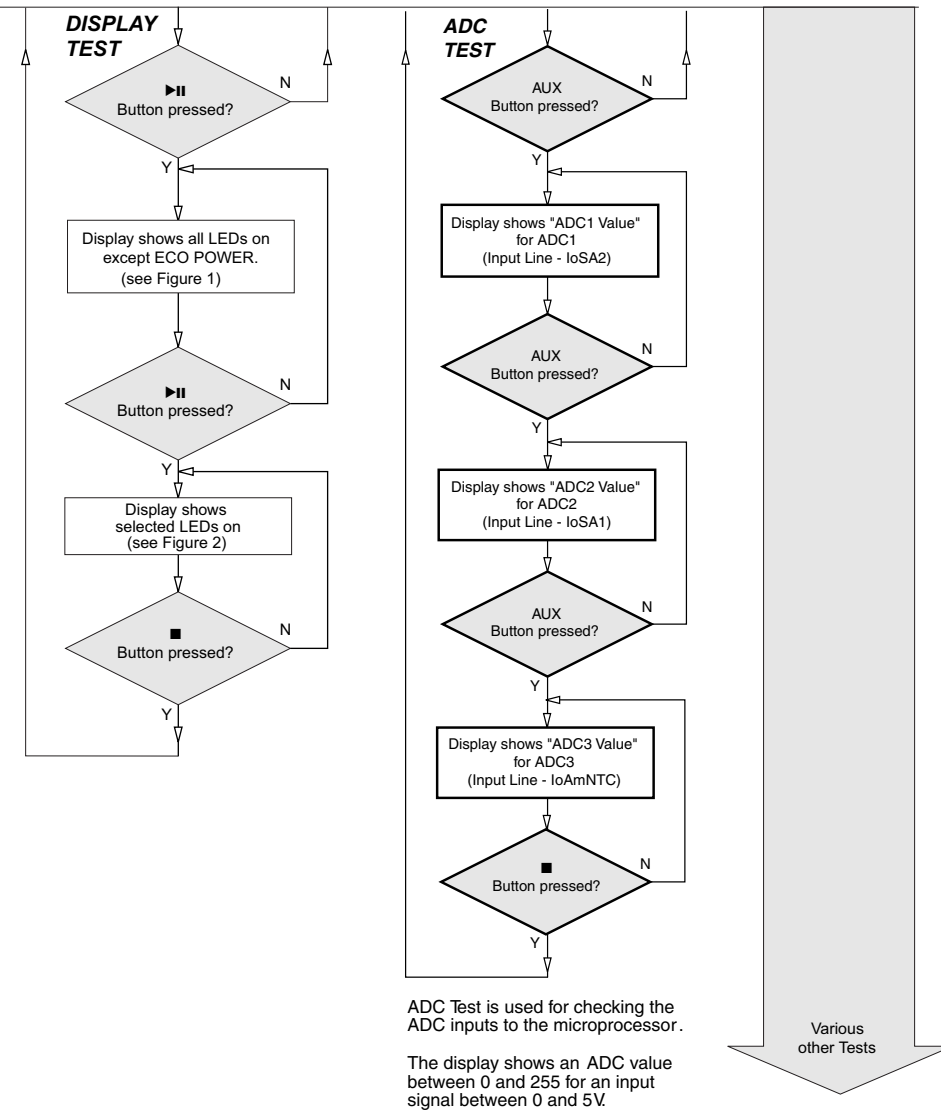


Figure 1

Figure 2

Error code	Error Description
E1000	Focus Error Triggered when the focus could not be found within a certain time when starting up the CD or when the focus is lost for a certain time during play.
E1001	Radial Error Triggered when the radial servo is off-track for a certain time during play.
E1002	Sledge In Error The sledge did not reach its inner position (inner-switch is still close) before approximately 6 Sec. have passed by. Inner-switch or sledge motor problem.
E1003	Sledge Out Error The sledge did not come out of its inner position (inner-switch is still open) before approximately 250 mSec. have passed by. Inner-switch or sledge motor problem.
E1005	Jump-offtrack error Triggered in normal play when the jump destination could not be found within a certain time. When this error occurred, software will try to recover by initiating the jump command again. If it is recoverable, the disc will continue to play.
E1006	Subcode Error Triggered when a new subcode was missing for a certain time during play.
E1007	PLL Error The Phase Lock Loop could not lock within a certain time.
E1008	Turntable Motor Error Generated when the CD could not reached 75% of speed during startup within a certain time. Discmotor problem.
E1020	Focus Search Error The focus point has not been found within a certain time.
E1070	This happens when the carousel switch is defective and closed all the time, or when the carousel is blocked when it is located exactly at a disc position.
E1071	This happens when the carousel switch is defective and does not closed electrically, or when the carousel is blocked in between two disc positions. The time-out is approximately 5 Sec.
E1079	The drawer could not open or enter the inside position and is opening again. This happen when the drawer is blocked and cannot go fully inside or when the drawer switch is defective and does not close.

Table 2



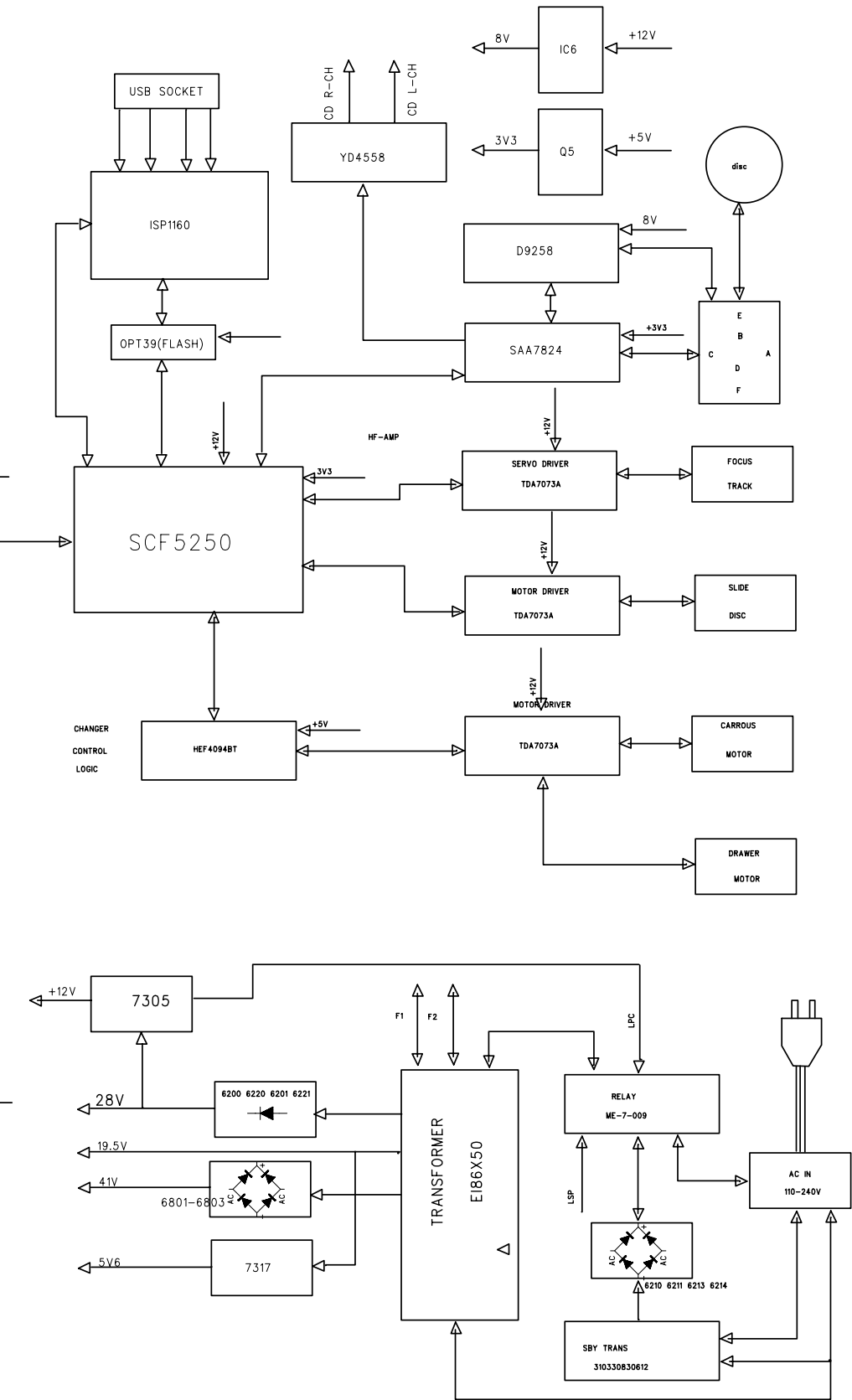
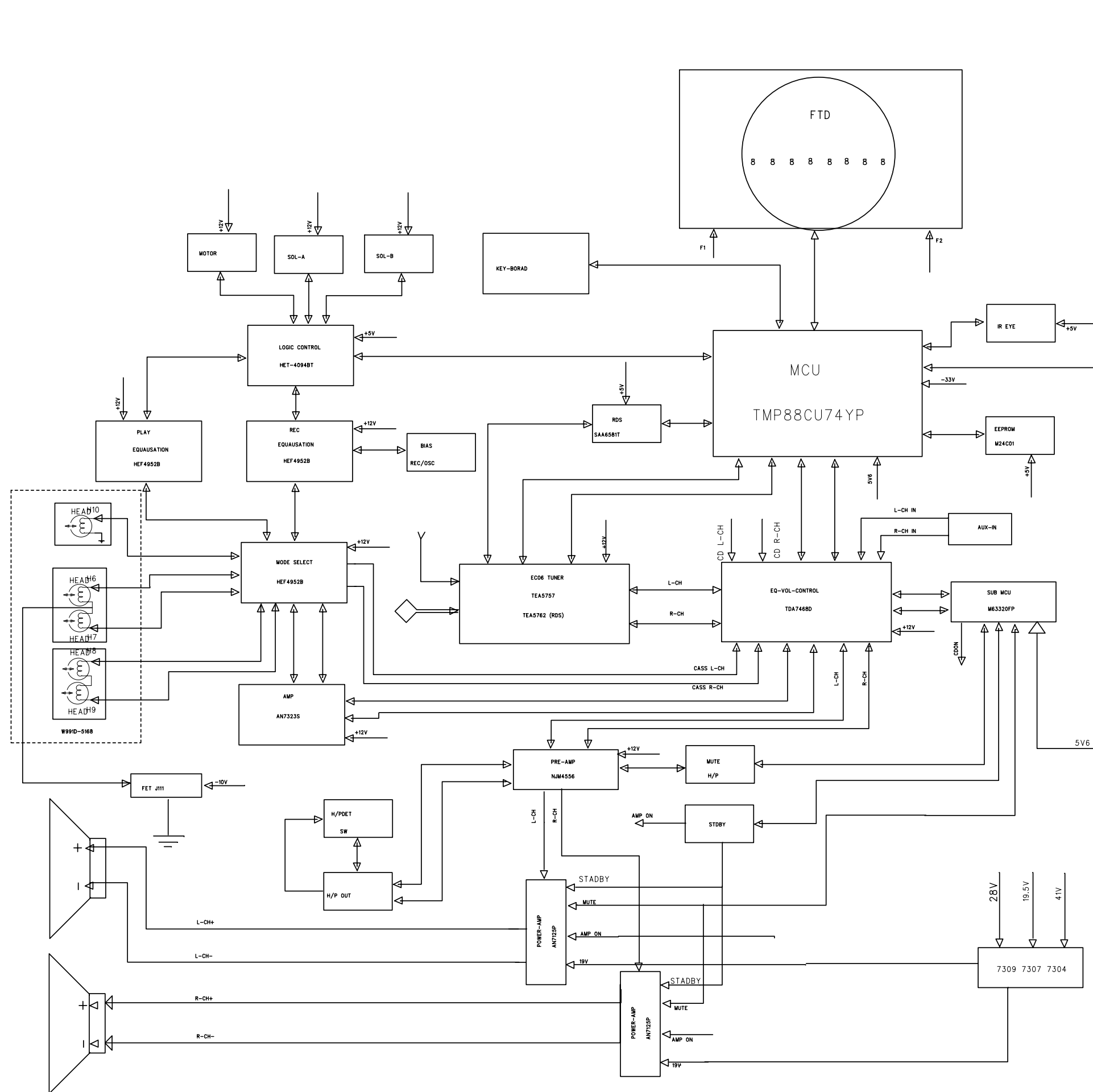
PRESET	Europe "EUR"	East Eur. Extended-band "EAS"	East Eur. "EAS"	USA "USA"	Oversea "OSE"
1	87.5MHz	65.81MHz	87.5MHz	87.5MHz	87.5MHz
2	108MHz	108MHz	108MHz	108MHz	108MHz
3	531kHz	74MHz	531kHz	530kHz	530/531kHz*
4	1602kHz	87.5MHz	1602kHz	1700kHz	1700/1602kHz*
5	558kHz	531kHz	558kHz	560kHz	560/558kHz*
6	1494kHz	1602kHz	1494kHz	1500kHz	1500/1494kHz*
7	153kHz	558kHz	87.5MHz	98MHz	98/87.5MHz*
8	279kHz	1494kHz	87.5MHz	87.5MHz	87.5MHz
9	198kHz	98MHz	87.5MHz	87.5MHz	87.5MHz
10	98MHz	70.01MHz	87.5MHz	87.5MHz	87.5MHz
11	87.5MHz	65.81MHz	98MHz	87.5MHz	87.5/98MHz*

Table 1

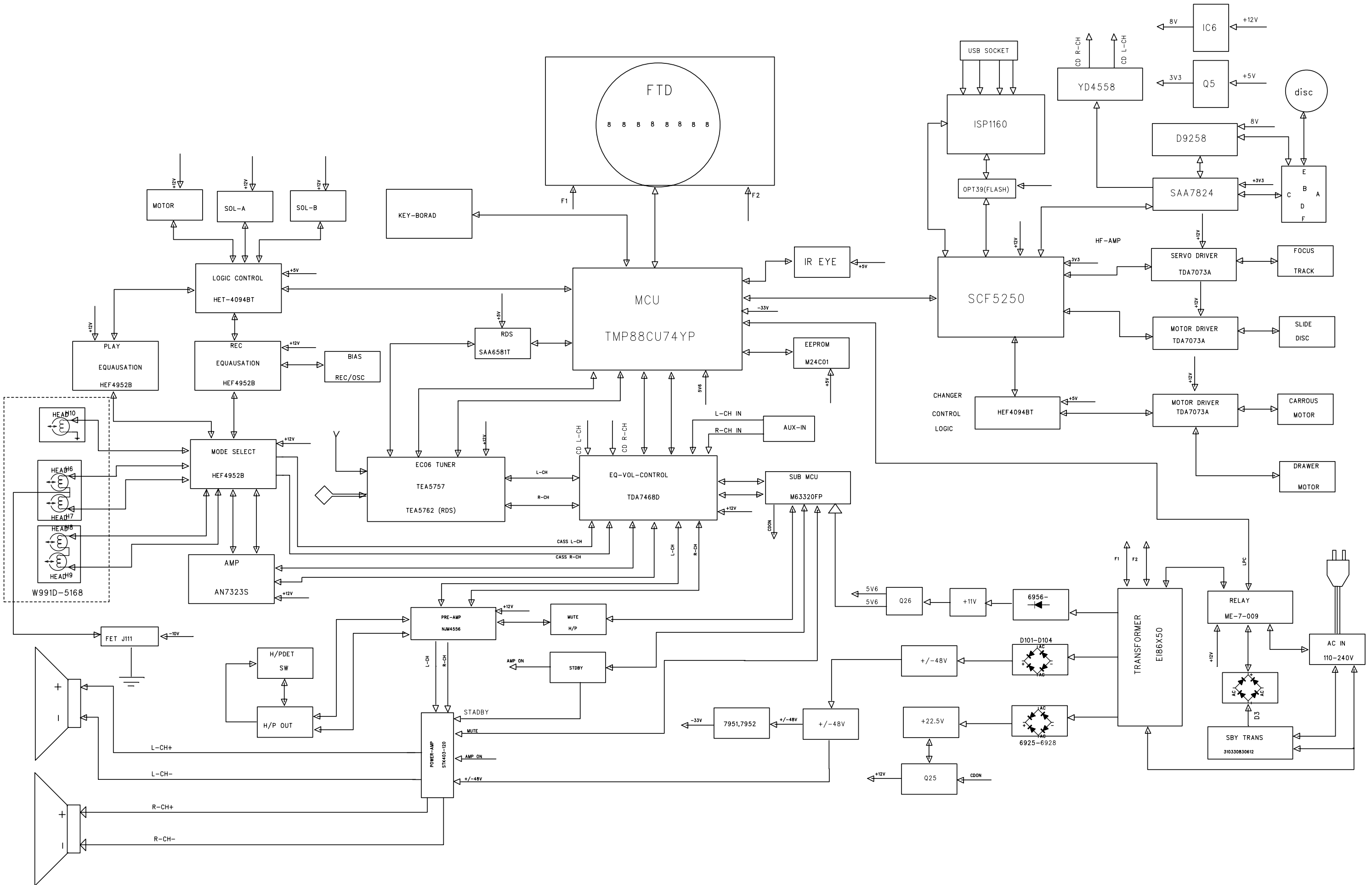
Note: * Depending on the selected grid frequency (9 or 10kHz)
By holding the TUNER and ►► buttons depressed while switching on the Mains supply, one of the undermentioned features will be activated:
- the tuning grid frequency is toggled between 9kHz and 10kHz for the Oversea (/21) version.
- the extended FM1 (65.81MHz - 74MHz) is toggled on and off for East Eur. (/34) version.

TEST	Activated with	ACTION
EEPROM TEST	►► ■ to Exit	A test pattern will be sent to the EEPROM. "PASS" is displayed if the µProcessor read back the test pattern correctly, otherwise "FAIL" will be displayed.
EEPROM FORMAT	◀◀	Load default data. Display shows "NEW" for 1 second. Caution! All presets from the customer will be lost!!
ROTARY ENCODER TEST	Volume Knob or Jog Shuttle knob	Display shows value for 2 seconds. Values increases or decreases in steps of 1 until 0 (Min.) or 40 (Max.) is reached.
LEAVE SERVICE TESTPROGRAM	Disconnect mains cord	

SET BLOCK DIAGRAM - FWM372

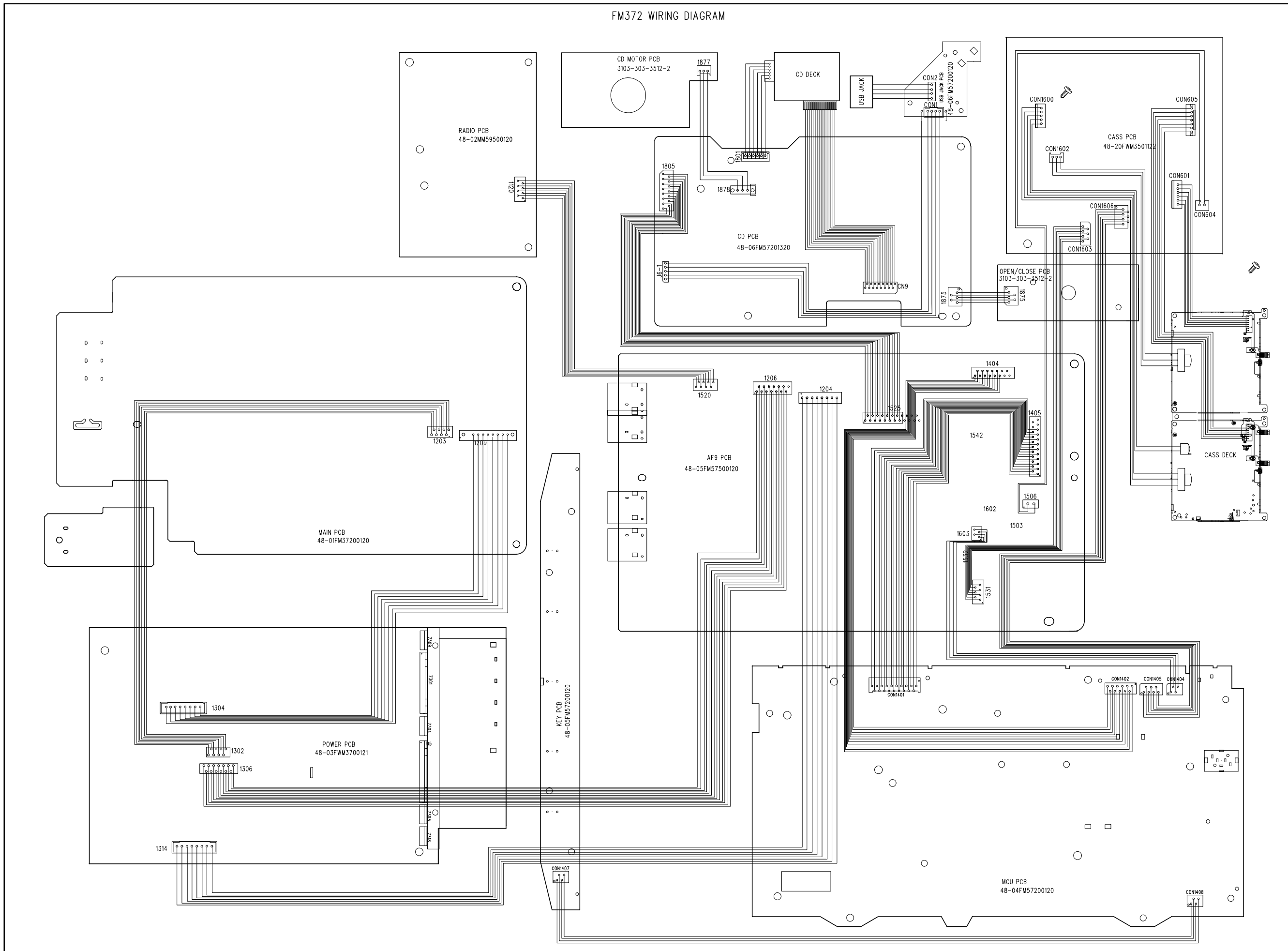


SET BLOCK DIAGRAM - FWM572

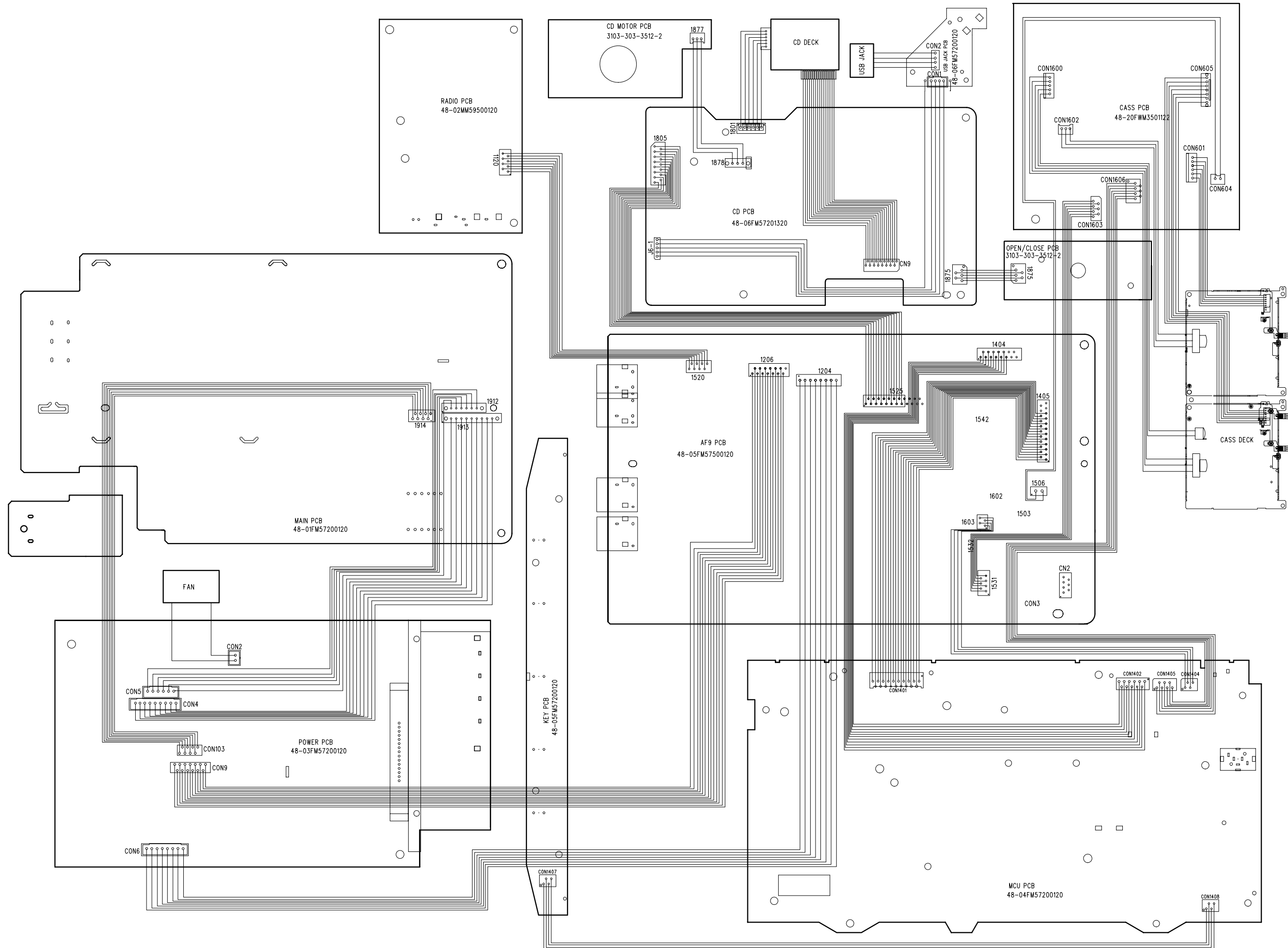


SET WIRING DIAGRAM - FWM372

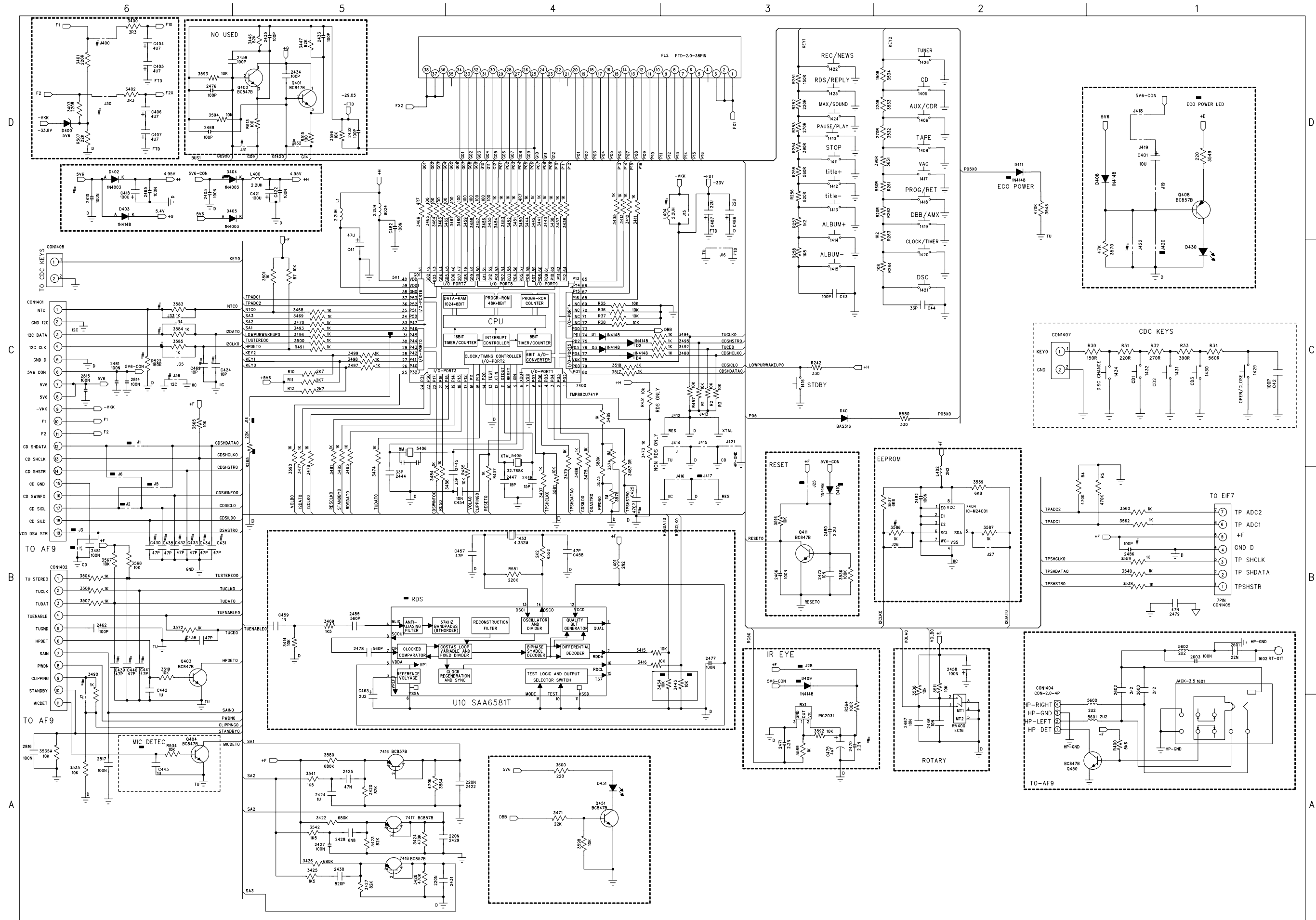
FM372 WIRING DIAGRAM

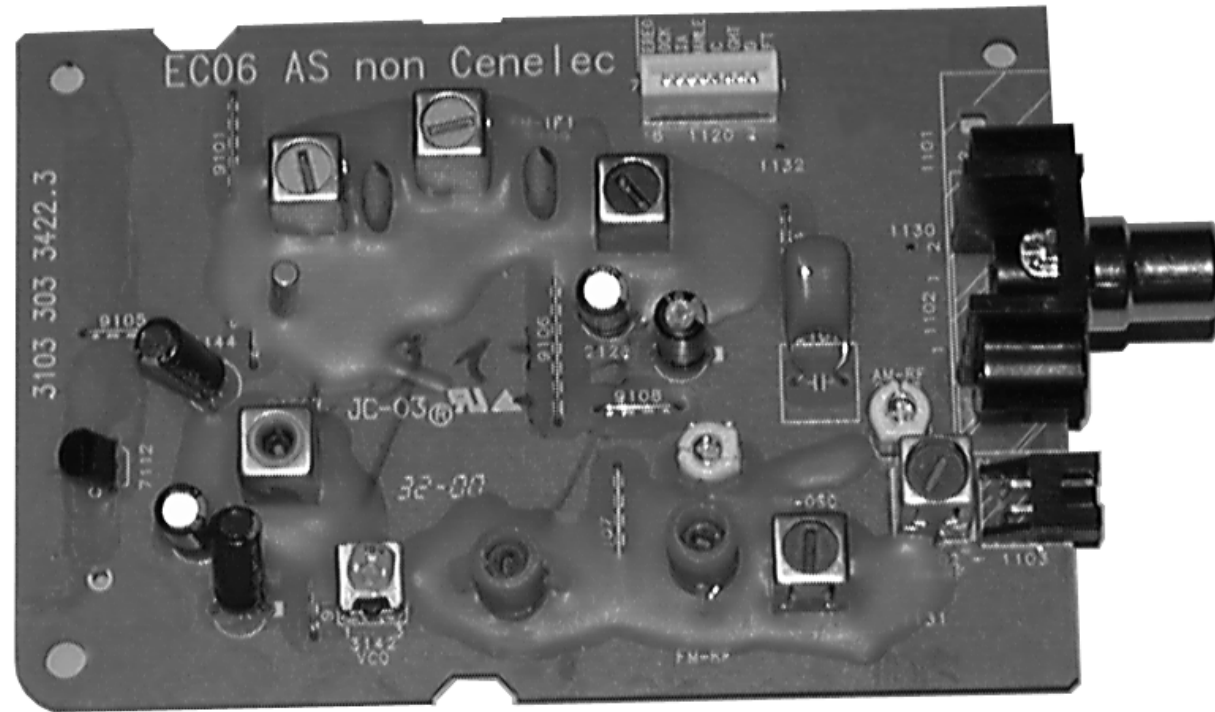


SET WIRING DIAGRAM - FWM572

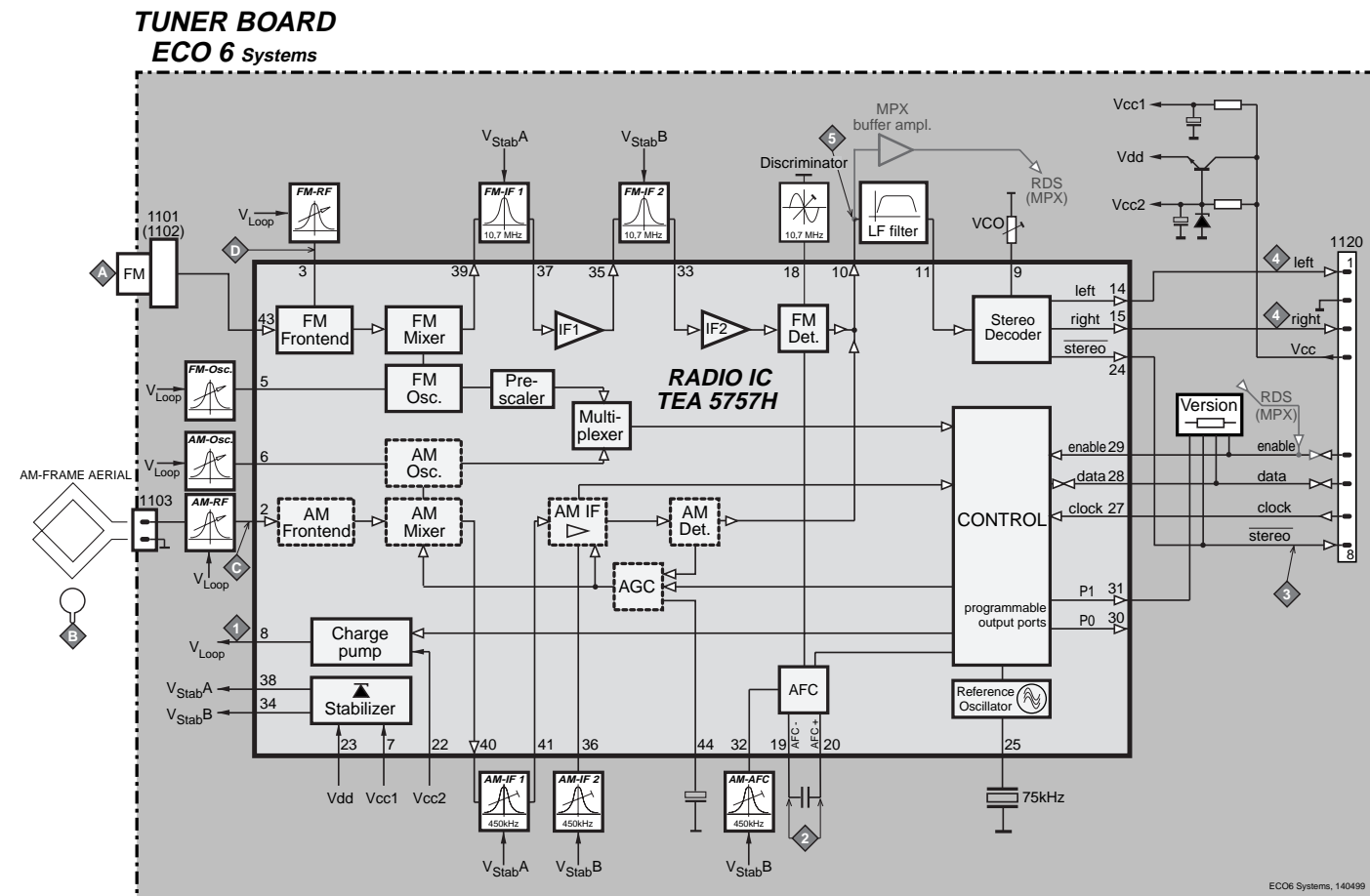


CIRCUIT DIAGRAM - FRONT & KEY BOARD





BLOCK DIAGRAM



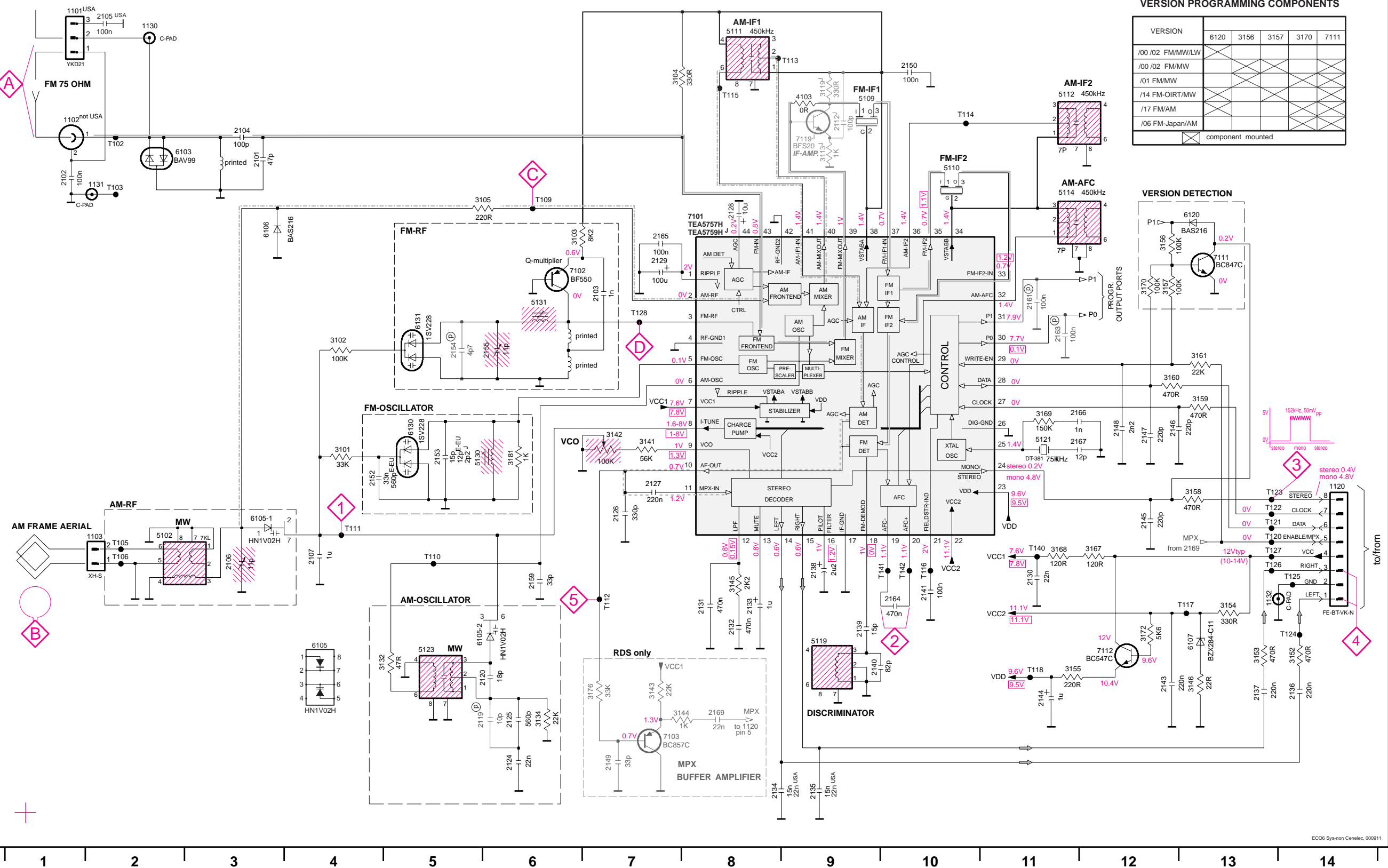
ECO6 Tuner Board

version: **SYSTEMS non-CENELEC**

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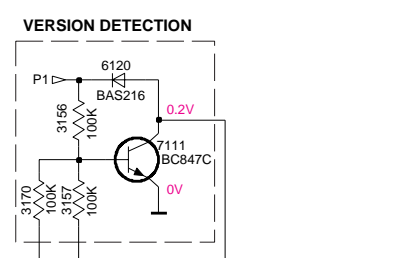
TUNER BOARD ECO6 / SYSTEMS NON CENELEC



VERSION PROGRAMMING COMPONENTS

VERSION	6120	3156	3157	3170	7111
/00 /02 FM/MW/LW					
/00 /02 FM/MW					
/01 FM/MW					
/14 FM-OIRT/MW					
/17 FM/AM					
/06 FM-Japan/AM					

component mounted



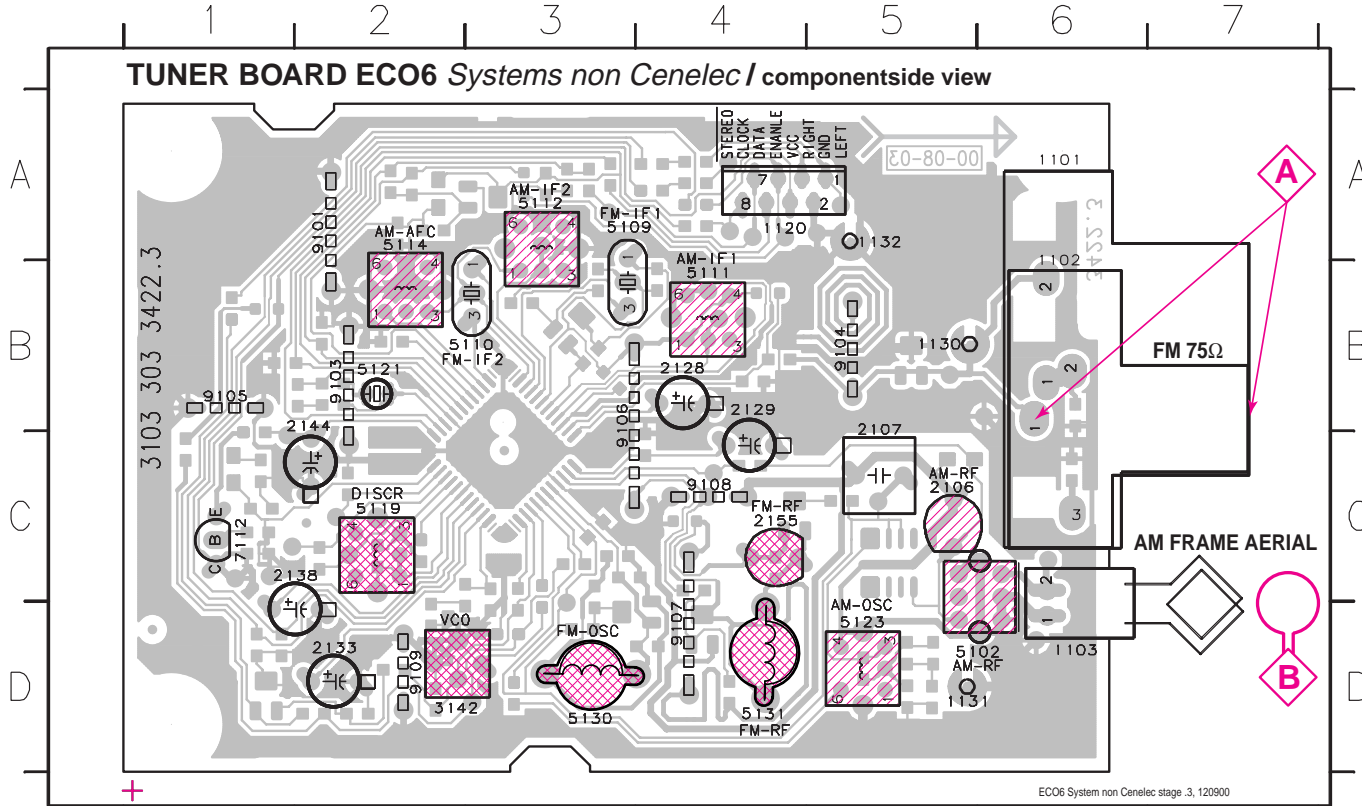
- 1101 A1
- 1102 B1
- 1103 F2
- 1120 E14
- 1130 A2
- 1131 B2
- 1132 G13
- 2101 B3
- 2102 B1
- 2103 C7
- 2104 B3
- 2105 A2
- 2106 F3
- 2107 F4
- 2119 H6
- 2120 G6
- 2124 H6
- 2125 H6
- 2126 F7
- 2127 E7
- 2128 C8
- 2129 C7
- 2130 F11
- 2131 G8
- 2132 G8
- 2133 G8
- 2134 H8
- 2135 H9
- 2136 G14
- 2137 G13
- 2138 F9
- 2139 G9
- 2140 G9
- 2141 F10
- 2143 G12
- 2144 G11
- 2145 F12
- 2146 E12
- 2147 E12
- 2148 E12
- 2149 H7
- 2150 A10
- 2152 A4
- 2153 E5
- 2154 D5
- 2155 D5
- 2159 F6
- 2161 C11
- 2163 D11
- 2164 F10
- 2165 C7
- 2166 E11
- 2167 E11
- 2169 H8
- 3101 E4
- 3102 D4
- 3103 C6
- 3104 A7
- 3105 B6
- 3132 G5
- 3134 H6
- 3141 E7
- 3142 E7
- 3143 G7
- 3144 H7
- 3145 F8
- 3146 G13
- 3152 G14
- 3153 G13
- 3154 G13
- 3155 G11
- 3156 C12
- 3157 C12
- 3158 E13
- 3159 D13
- 3160 D12
- 3161 D13
- 3167 F12
- 3168 F11
- 3169 E11
- 3170 C12
- 3172 G12
- 3176 G7
- 3181 E6
- 5102 E2
- 5109 B9
- 5110 B10
- 5111 A8
- 5112 A11
- 5114 A11
- 5119 G9
- 5121 E11
- 5123 G5
- 5130 E5
- 5131 C6
- 5132 B2
- 6105-1 F3
- 6105-2 G5
- 6106 C3
- 6107 G13
- 6120 C13
- 6130 E5
- 6131 D5
- 7101 C8
- 7102 C6
- 7103 H7
- 7111 C13
- 7112 F13
- 7127 F13
- T102 B2
- T103 B2
- T105 F2
- T106 F2
- T109 B6
- T110 F5
- T111 F4
- T112 F7
- T113 A8
- T114 B10
- T115 A8
- T116 A8
- T117 G10
- T118 G13
- T120 F13
- T121 F13
- T122 F13
- T123 F13
- T124 F13
- T125 F13
- T126 D7
- T127 F13
- T128 D7
- T140 F11
- T141 F10
- T142 F10

LEGEND
 (P) ... for provision only
 USA ... for USA version only
 E-EU ... for East European version only
 J ... for Japanese version only

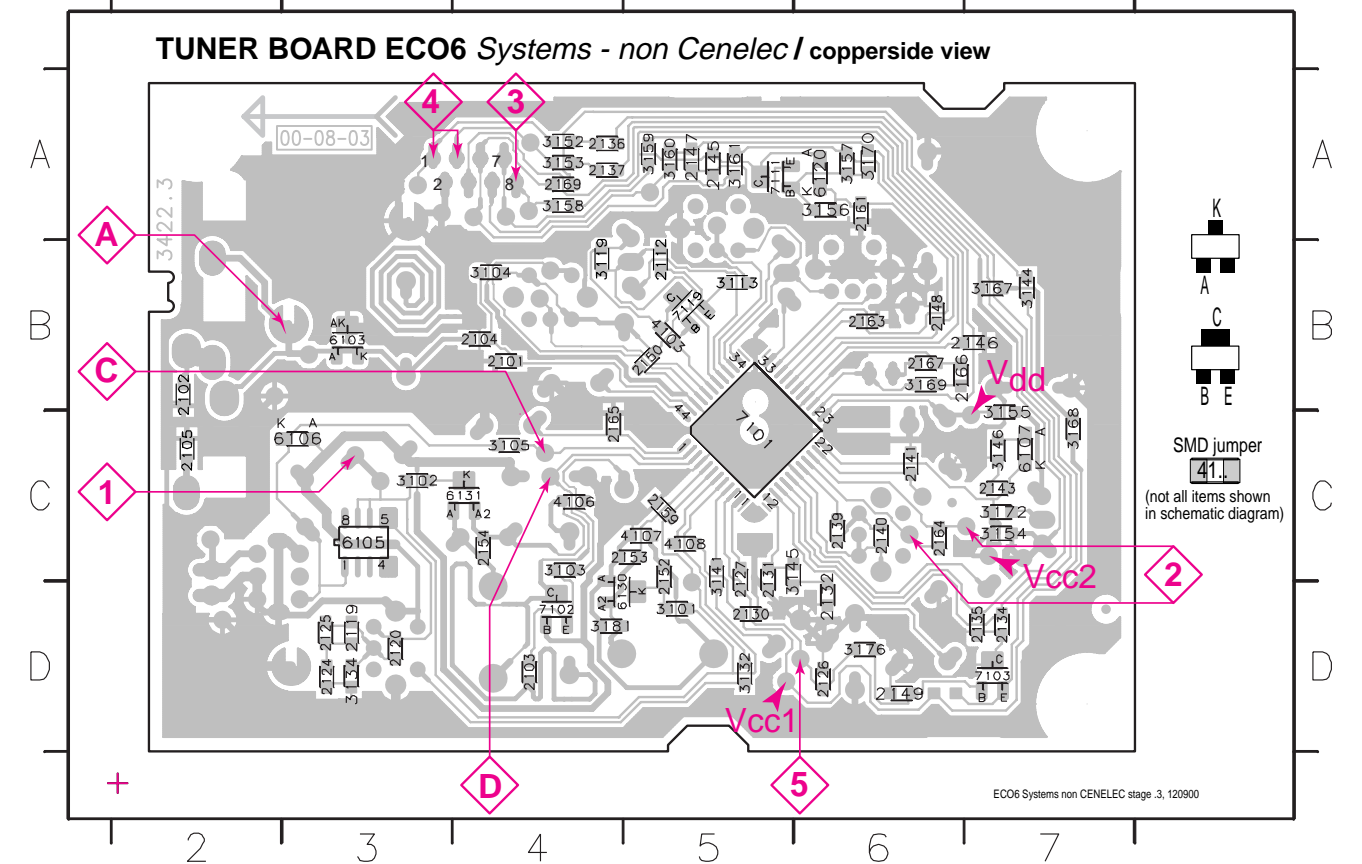
...V FM mode stereo
 ...V MW mode
 ...V LW mode
 voltages measured while set is tuned to a strong transmitter

Signal path
 — FM
 - - - AM
 - - - MPX (Audio Frequency)
 ⇨ AF - left/right

1101 A6 1120 A4 1132 A5 2128 C4 2138 C2 3142 D2 5110 B3 5114 A2 5123 D5 7112 C1 9104 B5 9107 D4
 1102 B6 1130 B5 2106 C5 2129 B4 2144 B2 5102 D6 5111 B4 5119 C2 5130 D3 9101 A2 9105 B1 9108 C4
 1103 D6 1131 D5 2107 B5 2133 D2 2155 C4 5109 A3 5112 A3 5121 B2 5131 D4 9103 B2 9106 B3 9109 D2



2101 B4 2119 D3 2130 D5 2137 A4 2146 B7 2153 C5 2165 C4 3103 C4 3134 D3 3152 A4 3158 A4 3169 B6 4106 C4 6107 C7 7103 D7
 2102 B1 2120 D3 2131 C5 2139 C6 2147 A5 2154 C4 2166 B6 3104 B4 3141 C5 3153 A4 3159 A5 3170 A6 4107 C5 6120 A6 7111 A5
 2103 D4 2124 D3 2132 D6 2140 C6 2148 B6 2159 C5 2167 B6 3105 C4 3143 D6 3154 C7 3160 A5 3172 C7 4108 C5 6130 D4 7119 B5
 2104 B4 2125 D3 2134 D7 2141 C6 2149 D6 2161 A6 2169 A4 3113 B5 3144 B7 3155 C7 3161 A5 3176 D6 6103 B3 6131 C4
 2105 C1 2126 D6 2135 D7 2143 C7 2150 B5 2163 B6 3101 D5 3119 B5 3145 C5 3156 A6 3167 B7 3181 D4 6105 C3 7101 C5
 2112 B5 2127 C5 2136 A4 2145 A5 2152 C5 3102 C3 3132 D5 3146 C7 3157 A6 3168 C7 4103 B5 6106 C3 7102 D4



These assembly drawings show a summary of all possible versions.
 For components used in a specific version see schematic diagram respectively partlist.

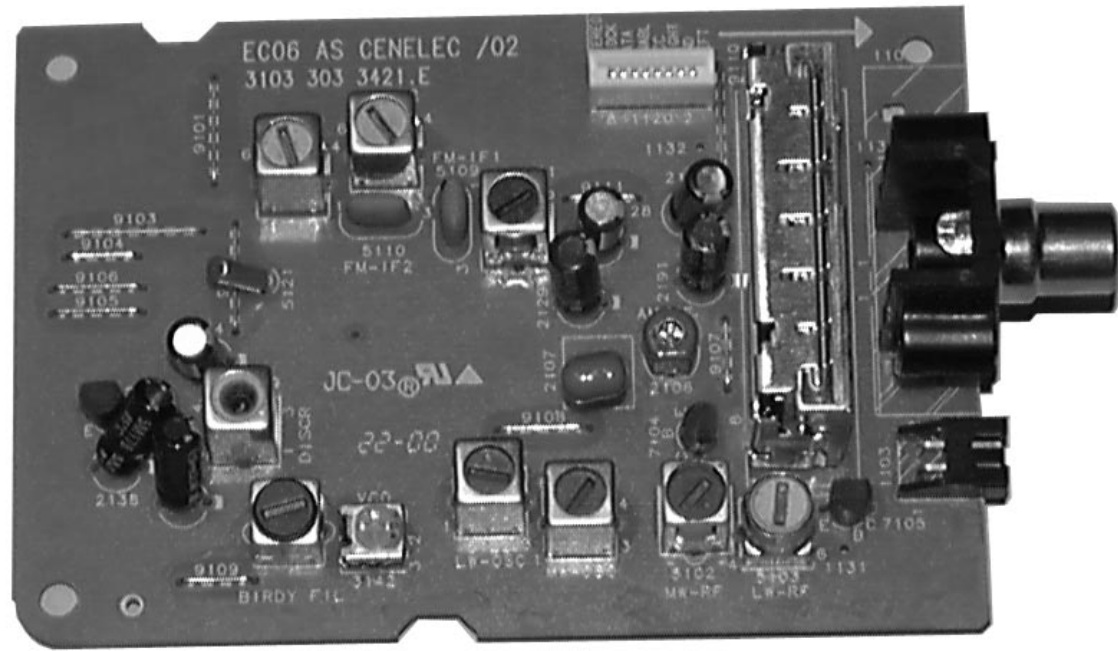
TUNER ADJUSTMENT TABLE (ECO6 FM/MW- and FM/MW/LW - versions with AM-frame aerial)

Waverange	Input frequency	Input	Tuned to	Adjust	Output	Scope/Voltmeter
VARICAP ALIGNMENT						
FM 87.5 - 108MHz (65.81 - 74, 87.5 - 108MHz)	108MHz		108MHz	5130		8V ±0.2V
	87.5MHz (65.81MHz)		87.5MHz (65.81MHz)	check		4.3V ±0.5V (1.2V ±0.5V)
MW FM/AM-version, 10kHz grid 530 - 1700kHz	1700kHz		1700kHz	5123		8V ±0.2V
	530kHz		530kHz	check		1.1V ±0.4V
FM/MW-version, 9kHz grid 531 - 1602kHz	1602kHz		1602kHz	5123	1	6.9V ±0.2V
	531kHz		531kHz	check		1.1V ±0.4V
LW 153 - 279kHz	279kHz		279kHz	5122		8V ±0.2V
	153kHz		153kHz	check		1.1V ±0.4V
MW FM/MW/LW- version, 9kHz grid 531 - 1602kHz	1602kHz		1602kHz	5123		8V ±0.2V
	531kHz		531kHz	check		1.1V ±0.4V
FM IF						
FM	10.7MHz, 45mV continuous wave	D		5119	2	0 ± 3 mV DC
FM RF						
FM 87.5 - 108MHz (65.81 - 74, 87.5 - 108MHz)	108MHz	A	108MHz	2155	4	MAX
	87.5MHz (65.81MHz)	mod=1kHz Δf=±22.5kHz	87.5MHz (65.81MHz)	5131		
VCO						
FM	98MHz, 1mV continuous wave	A	98MHz	3142	3	152kHz ±1kHz ¹⁾
AM IF						
MW	450kHz connect pin 6 of IC 7101 (AM Osc.) with 3.3kΩ to Vcc	C		5111	5	
		C		5112		
AM AFC MW		C	continuous wave V _{RF} = 2mV	5114	2	0 ± 2 mV DC
AM RF³⁾						
MW⁴⁾ FM/MW/LW- and FM/MW-version (9kHz grid)	1494kHz	B	1494kHz	2106	5	
	558kHz		558kHz	5102		
LW	198kHz		198kHz	5103		
MW FM/AM-version, 10kHz grid 530 - 1700kHz	1500kHz	B	1500kHz	2106	5	
	560kHz		560kHz	5102		

Use Service Testprogram. By selecting the TUNER TEST test frequencies will be stored as preset frequencies automatically.

- 1) If sensitivity of frequency counter is too low adjust to max. channel separation (input signal: stereo left 90° + 9°, adjust output on right channel to minimum)
- 2) RC network serves for damping the IF-filter while adjusting the other one.
- 3) For AM RF adjustments the original frame antenna has to be used!
- 4) MW has to be aligned before LW.

↑ Repeat



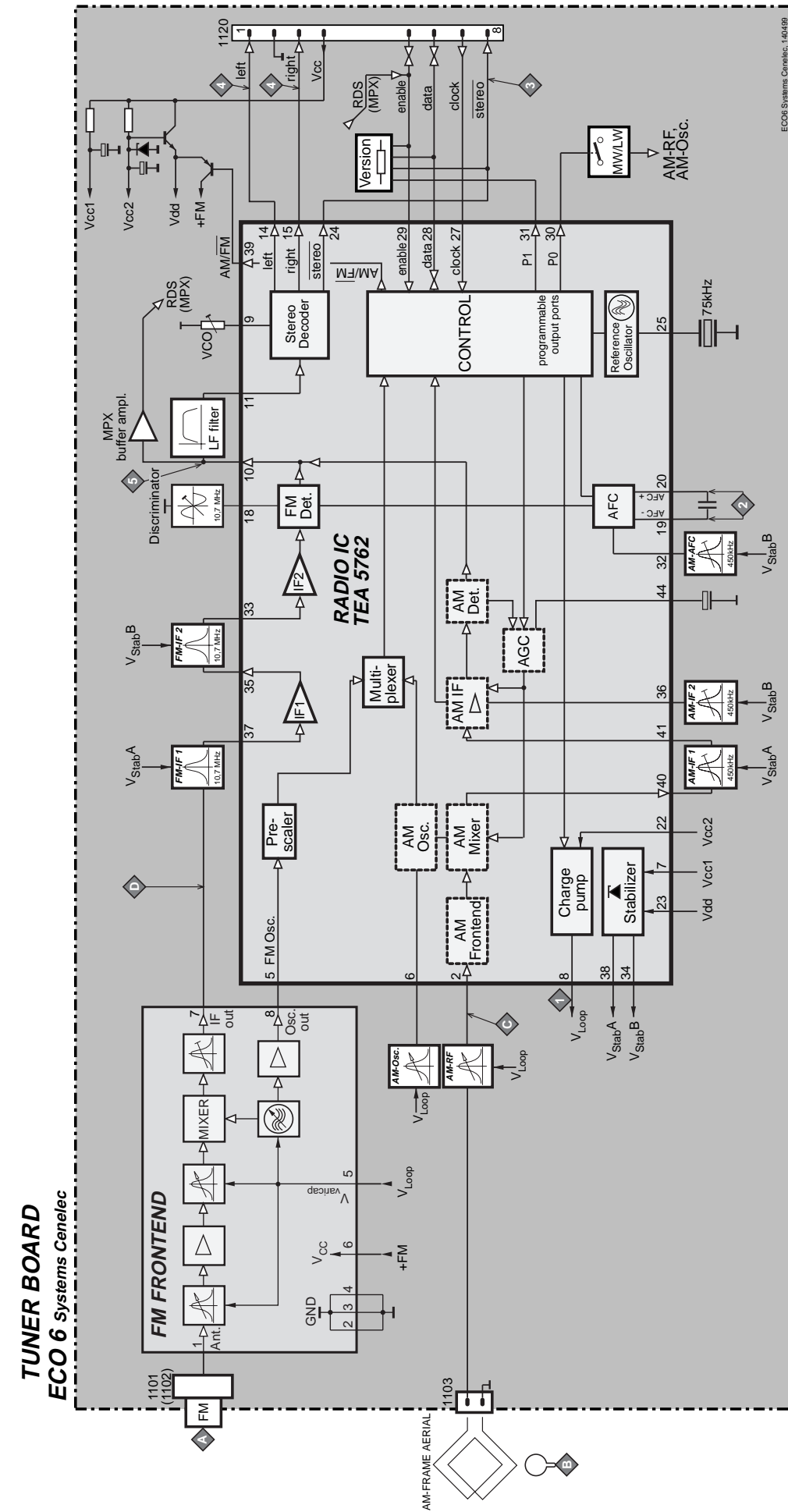
ECO6 Tuner Board

version: **SYSTEMS CENELEC**

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BLOCK DIAGRAM



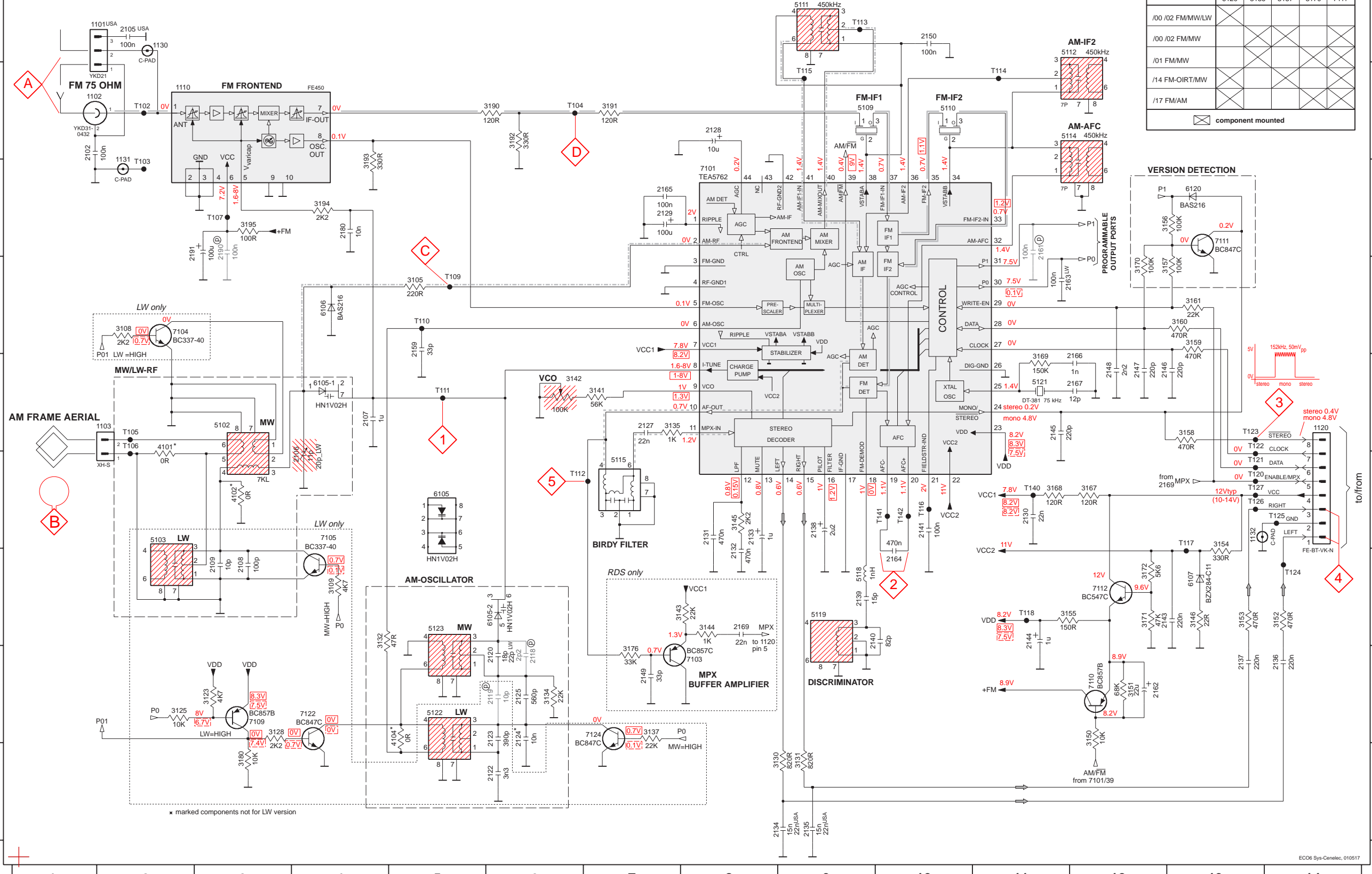
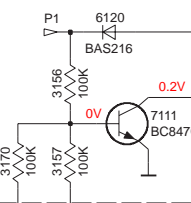
TUNER BOARD ECO6 / SYSTEMS-CENELEC

VERSION PROGRAMMING COMPONENTS

VERSION	6120	3156	3157	3170	7111
/00 /02 FM/MW/LW					
/00 /02 FM/MW					
/01 FM/MW					
/14 FM-OIRT/MW					
/17 FM/AM					

☒ component mounted

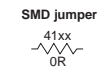
VERSION DETECTION



- 1101 A2
- 1102 B1
- 1103 E2
- 1110 B2
- 1120 E4
- 1130 A2
- 1131 C2
- 1132 F13
- 1132 B1
- 2105 A2
- 2106 E3
- 2107 E4
- 2108 G3
- 2109 G3
- 2118 H6
- 2119 H6
- 2120 H6
- 2122 I6
- 2123 H6
- 2124 H6
- 2125 H6
- 2127 E7
- 2128 B8
- 2129 C7
- 2130 F11
- 2131 F8
- 2132 F8
- 2133 F8
- 2134 I8
- 2135 I9
- 2136 H14
- 2137 H13
- 2138 F9
- 2139 G9
- 2140 G9
- 2141 F10
- 2143 G12
- 2144 G11
- 2145 E11
- 2146 E12
- 2147 E12
- 2148 E12
- 2149 H7
- 2150 A10
- 2159 D5
- 2161 C11
- 2162 H12
- 2163 D11
- 2164 G10
- 2165 C7
- 2166 E11
- 2167 E11
- 2169 G8
- 2180 C4
- 2190 C3
- 2191 C3
- 3105 D5
- 3108 D2
- 3109 G4
- 3123 H3
- 3125 H2
- 3128 H3
- 3130 I9
- 3131 I9
- 3132 G4
- 3134 H6
- 3135 E7
- 3137 H7
- 3141 E7
- 3142 E6
- 3143 G7
- 3144 G8
- 3145 F8
- 3146 G13
- 3150 H12
- 3151 H12
- 3152 G14
- 3153 G13
- 3154 F13
- 3155 G12
- 3156 C12
- 3157 D12
- 3158 E13
- 3159 D13
- 3160 D13
- 3161 D13
- 3167 F12
- 3168 F11
- 3169 E11
- 3170 D12
- 3171 G12
- 3172 G12
- 3176 H7
- 3180 I3
- 3190 B6
- 3191 B7
- 3192 B6
- 3193 B4
- 3194 C4
- 3195 C3
- 4101 E2
- 4102 F3
- 4104 H5
- 5102 E3
- 5103 F2
- 5109 B9
- 5110 B10
- 5111 A9
- 5112 A11
- 5114 B11
- 5115 E7
- 5118 G9
- 5119 G9
- 5121 E11
- 5122 H5
- 5123 G5
- 6105-1 E4
- 6105-2 G6
- 6106 D4
- 6107 G13
- 6120 C13
- 7101 C8
- 7103 H8
- 7104 D2
- 7105 F4
- 7109 H3
- 7110 H12
- 7111 C13
- 7112 H4
- 7124 H7
- T102 B2
- T103 B2
- T104 B6
- T105 B2
- T106 B2
- T107 B2
- T109 B2
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- T133 B2
- T134 B2
- T135 B2
- T136 B2
- T137 B2
- T138 B2
- T139 B2
- T140 B2
- T141 B2
- T142 B2
- T143 B2
- T144 B2
- T145 B2
- T146 B2
- T147 B2
- T148 B2
- T149 B2
- T150 B2

LEGEND

- *... only assembled in FM/AM-version
- Ⓢ... for provision only
- USA ... for USA version only
- LW ... for LW version only

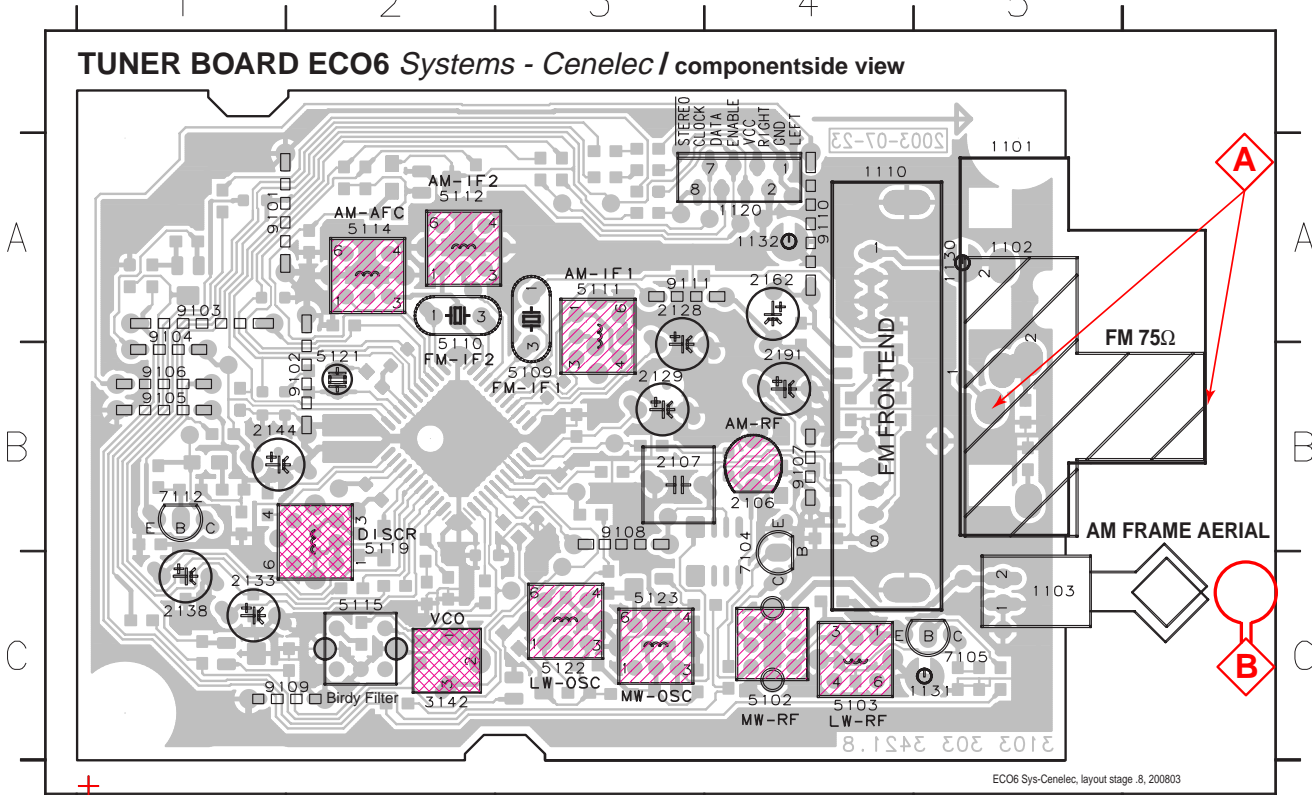


- ...V FM mode stereo
- ...V MW mode
- ...V LW mode
- voltages measured while set is tuned to a strong transmitter

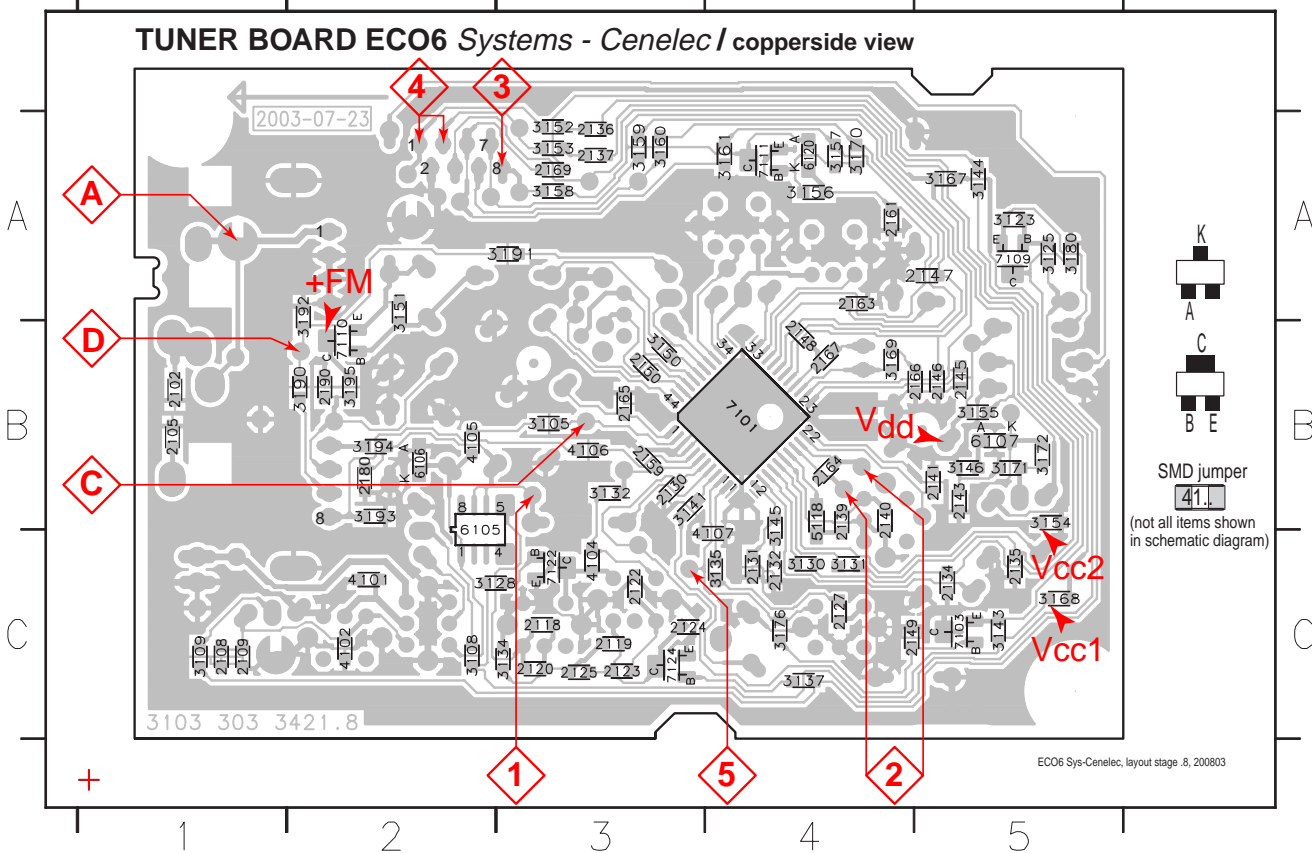
Signal path

- FM
- - - AM
- · - · - MPX (Audio Frequency)
- ⇒ AF - left/right

1101 B5 1110 B4 1131 C5 2107 B3 2133 C1 2162 A4 5102 C4 5110 A2 5114 A2 5121 B2 7104 C4 9101 A2 9104 B1 9107 B4 9110 A4
 1102 B5 1120 A4 1132 A4 2128 A3 2138 B1 2191 B4 5103 C4 5111 A3 5115 C2 5122 C3 7105 C5 9102 B2 9105 B1 9108 B3 9111 A3
 1103 C5 1130 A5 2106 B4 2129 B3 2144 B1 3142 C2 5109 B3 5112 A2 5119 B2 5123 C3 7112 B1 9103 A1 9106 B1 9109 C2



2102 B1 2120 C3 2130 B3 2137 A3 2146 B5 2161 A4 2169 A3 3123 A5 3134 C3 3145 C4 3154 B5 3160 A3 3171 B5 3192 A2 4104 C3 6106 B2 7110 B2
 2105 B1 2122 C3 2131 C4 2139 B4 2147 A5 2163 A4 2180 B2 3125 A5 3135 C4 3146 B5 3155 B5 3161 A4 3172 B5 3193 B2 4105 B2 6107 B5 7111 A4
 2108 C1 2123 C3 2132 C4 2140 B4 2148 B4 2164 B4 2190 B2 3128 C2 3137 C4 3150 B3 3156 A4 3167 A5 3176 C4 3194 B2 4106 B3 6120 A4 7122 C3
 2109 C1 2124 C3 2134 C5 2141 B5 2149 C4 2165 B3 3105 B3 3130 C4 3141 B3 3151 A2 3157 A4 3168 C5 3180 A5 3195 B2 4107 C4 7101 B4 7124 C3
 2118 C3 2125 C3 2135 C5 2143 B5 2150 B3 2166 B5 3108 C2 3131 C4 3143 C5 3152 A3 3158 A3 3169 B4 3190 B2 4101 C2 5118 C4 7103 C5
 2119 C3 2127 C4 2136 A3 2145 B5 2159 B3 2167 B4 3109 C1 3132 B3 3144 A5 3153 A3 3159 A3 3170 A4 3191 A3 4102 C2 6105 B2 7109 A5



These assembly drawings show a summary of all possible versions.
 For components used in a specific version see schematic diagram respectively partslist.

TUNER ADJUSTMENT TABLE (ECO6 Cenelec FM/MW - and FM/MW/LW - versions with AM-frame aerial)

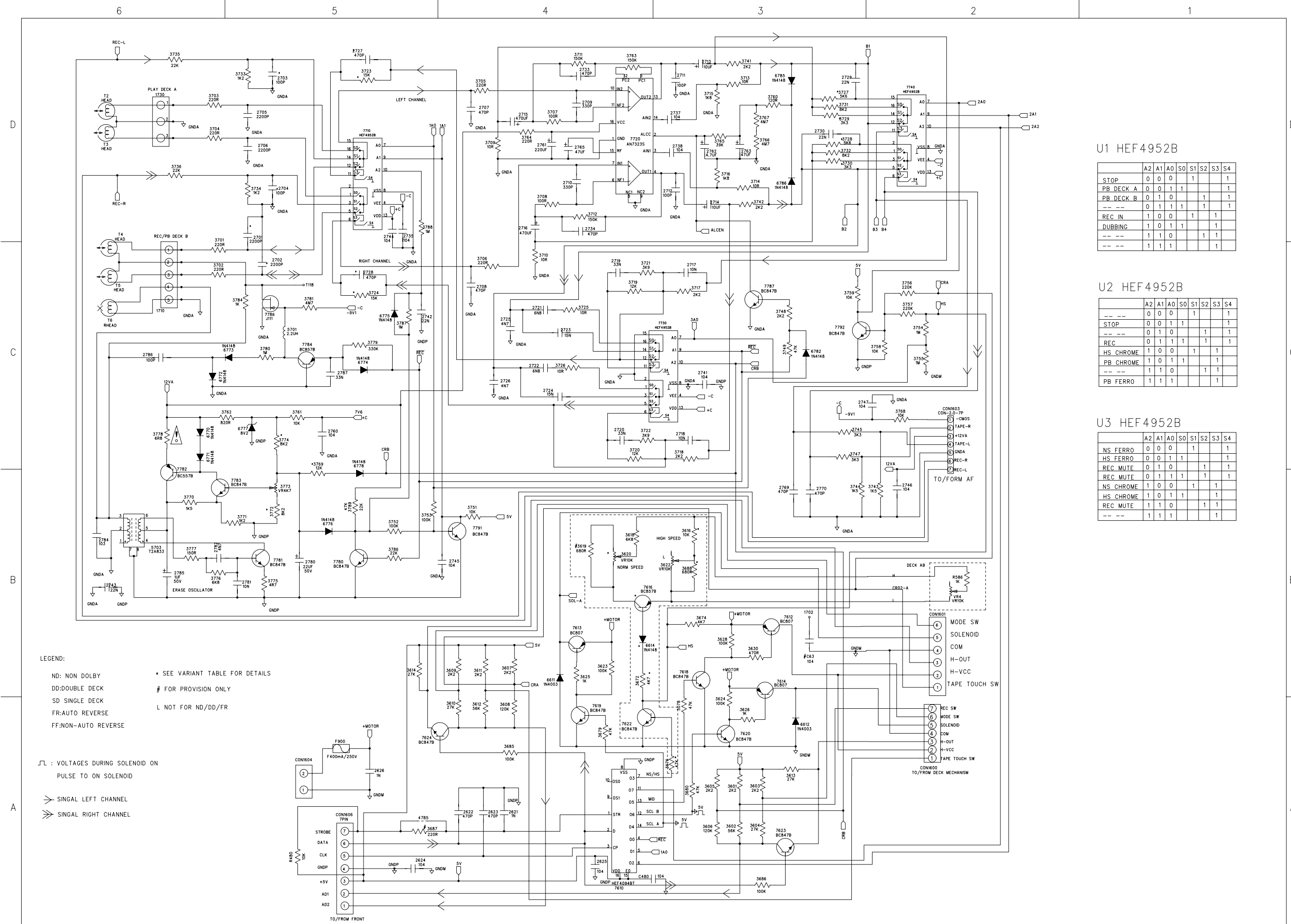
Waverange	Input frequency	Input	Tuned to	Adjust	Output	Scope/Voltmeter
VARICAP ALIGNMENT						
FM 87.5 - 108MHz (50kHz grid)			108MHz	check		8V ±1.2V
			87.5MHz	check		1.6V ±0.5V
MW 531 - 1602kHz (9kHz grid)			1602kHz	5123	1	8V ±0.2V 3-band 6.9V ±0.2V 2-band
			531kHz	check		1.1V ±0.4V
LW 153 - 279kHz (3kHz grid)			279kHz	5122		8V ±0.2V
			153kHz	check		1.1V ±0.4V
FM - IF						
FM	10.7MHz, 45mV continuous wave	D		5119	2	0mV ±3mV
FM - VCO						
FM	98MHz, 1mV continuous wave	A	98MHz	3142	3	152kHz ±1kHz ¹⁾
FM RF (channel separation) Note: The FM-frontend unit has already been adjusted by the factory and needs therefore no further adjustments for service purposes.						
FM	98MHz, 1mV 90% Left + 9% pilot mod=1kHz	A	98MHz	IF coil inside FM frontend 1110	4	right channel min.
AM IF						
MW	450kHz connect pin 6 of IC 7101 (AM Osc.) with 3.3kΩ to Vcc	C		5111	5	
				5112		
AM AFC MW		C		5114	2	0mV ±2mV
AM RF³⁾						
MW	1494kHz	B		1494kHz	2106	
	558kHz			5102		
LW	198kHz			198kHz	5103	

Use Service Testprogram. By selecting the TUNER TEST test frequencies will be stored as preset frequencies automatically.

- 1) If sensitivity of frequency counter is too low adjust to max. channel separation (input signal: stereo left 90% + 9%, adjust output on right channel to minimum)
- 2) RC network serves for damping the IF-filter while adjusting the other one.
- 3) For AM RF adjustments the original frame antenna has to be used!
 MW has to be aligned before LW.

↑ Repeat

CIRCUIT DIAGRAM - TAPE BOARD



U1 HEF4952B

	A2	A1	A0	S0	S1	S2	S3	S4
STOP	0	0	0	1	1	1	1	1
PB DECK A	0	0	1	1	1	1	1	1
PB DECK B	0	1	0	1	1	1	1	1
---	0	1	1	1	1	1	1	1
REC IN	1	0	0	1	1	1	1	1
DUBBING	1	0	1	1	1	1	1	1
---	1	1	0	1	1	1	1	1
---	1	1	1	1	1	1	1	1

U2 HEF4952B

	A2	A1	A0	S0	S1	S2	S3	S4
---	0	0	0	1	1	1	1	1
STOP	0	0	1	1	1	1	1	1
---	0	1	0	1	1	1	1	1
REC	0	1	1	1	1	1	1	1
HS CHROME	1	0	0	1	1	1	1	1
PB CHROME	1	0	1	1	1	1	1	1
---	1	1	0	1	1	1	1	1
PB FERRO	1	1	1	1	1	1	1	1

U3 HEF4952B

	A2	A1	A0	S0	S1	S2	S3	S4
NS FERRO	0	0	0	1	1	1	1	1
HS FERRO	0	0	1	1	1	1	1	1
REC MUTE	0	1	0	1	1	1	1	1
REC MUTE	0	1	1	1	1	1	1	1
NS CHROME	1	0	0	1	1	1	1	1
HS CHROME	1	0	1	1	1	1	1	1
---	1	1	0	1	1	1	1	1
---	1	1	1	1	1	1	1	1

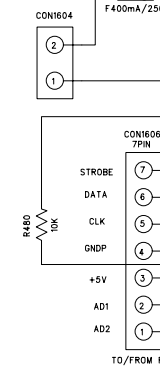
LEGEND:

ND: NON DOLBY * SEE VARIANT TABLE FOR DETAILS
 DD: DOUBLE DECK # FOR PROVISION ONLY
 SD: SINGLE DECK L NOT FOR ND/DD/FR
 FR: AUTO REVERSE
 FF: NON-AUTO REVERSE

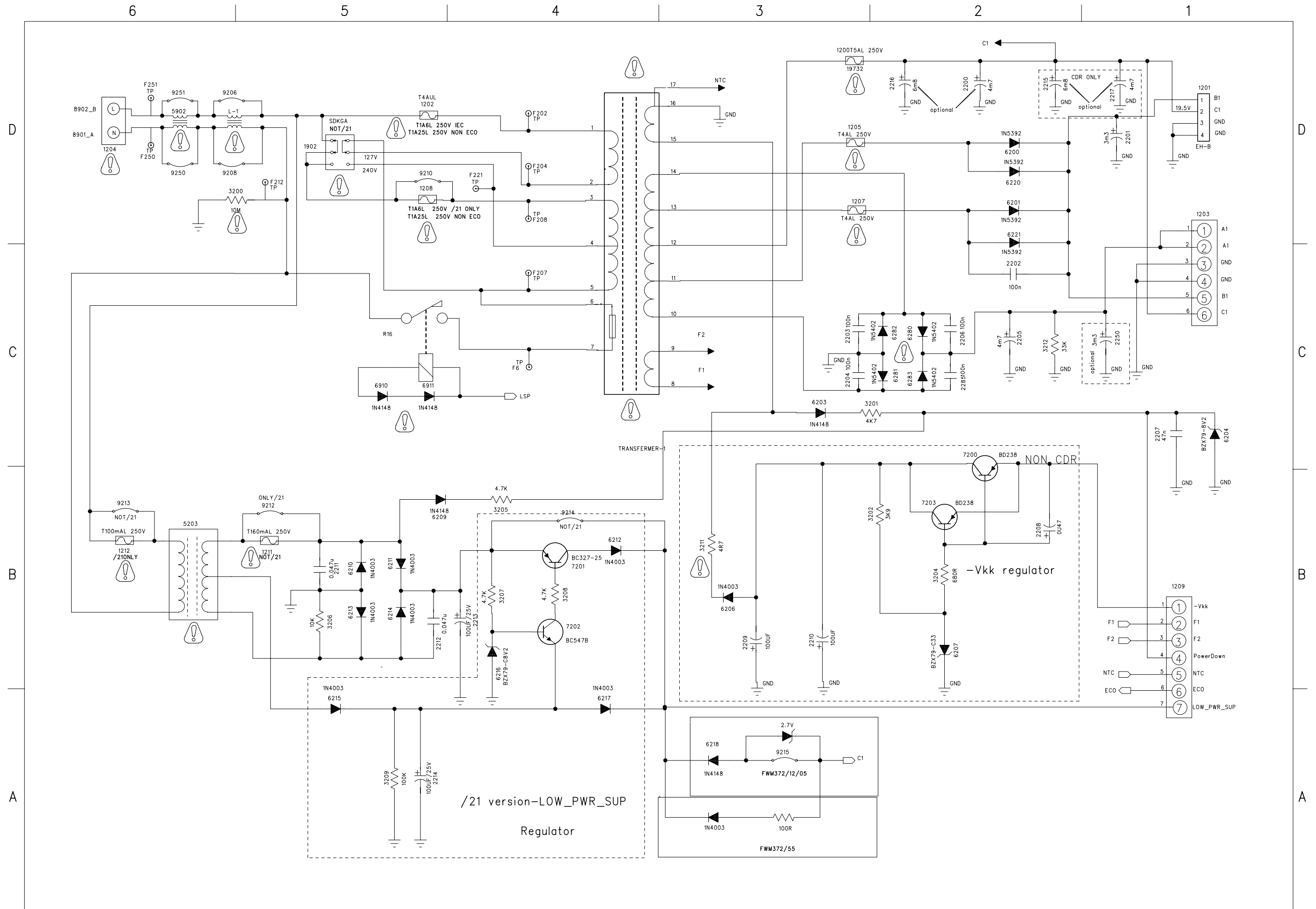
⌋ : VOLTAGES DURING SOLENOID ON PULSE TO ON SOLENOID

➤ SINGAL LEFT CHANNEL
 ➤➤ SINGAL RIGHT CHANNEL

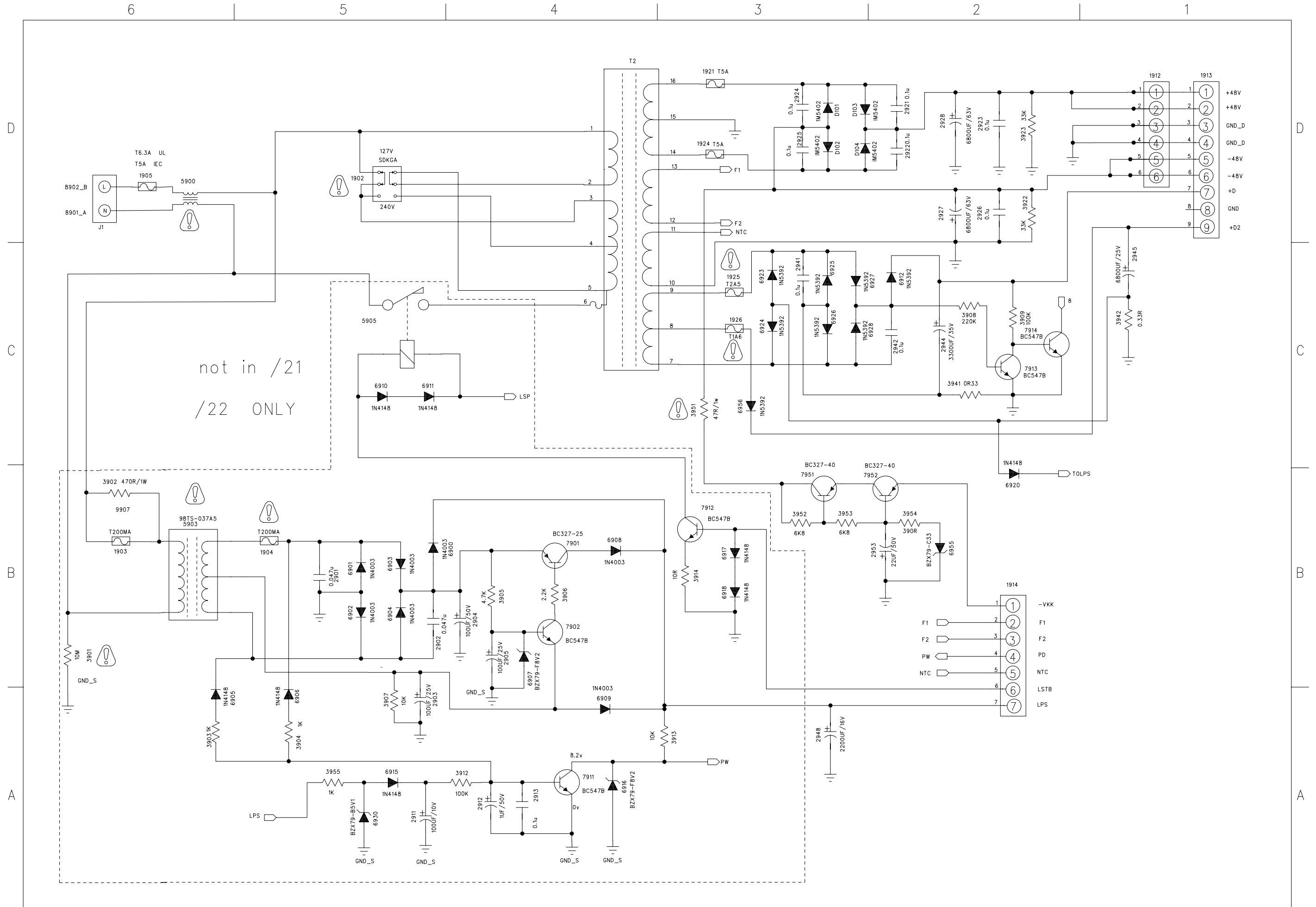
- ① MODE SW
 - ② SOLENOID
 - ③ COM
 - ④ H-OUT
 - ⑤ H-VCC
 - ⑥ TAPE TOUCH SW
-
- ⑦ REC SW
 - ⑧ MODE SW
 - ⑨ SOLENOID
 - ⑩ COM
 - ⑪ H-OUT
 - ⑫ H-VCC
 - ⑬ TAPE TOUCH SW



CIRCUIT DIAGRAM - MAINS BOARD_FWM372

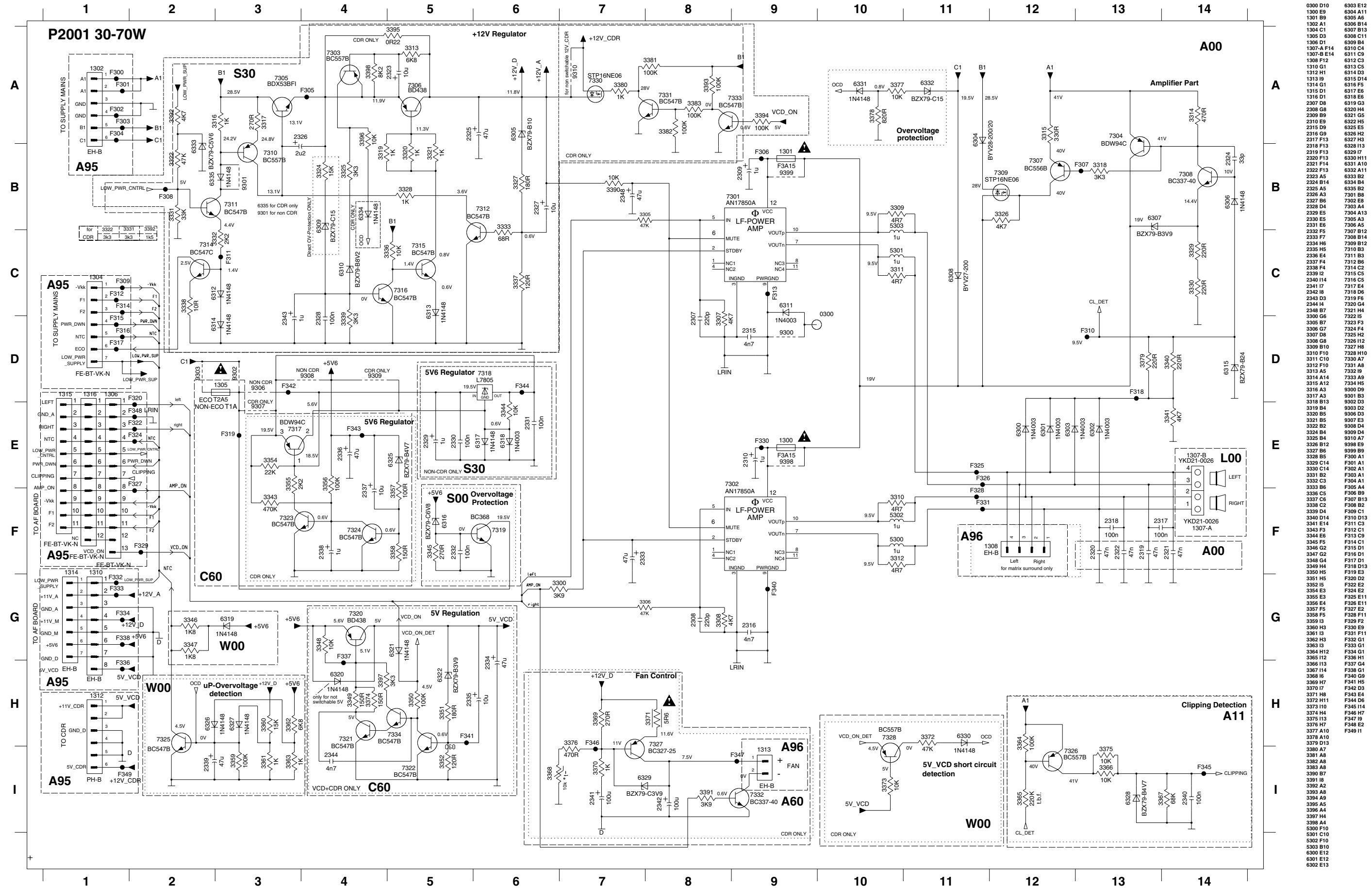


CIRCUIT DIAGRAM - MAINS BOARD_FWM572



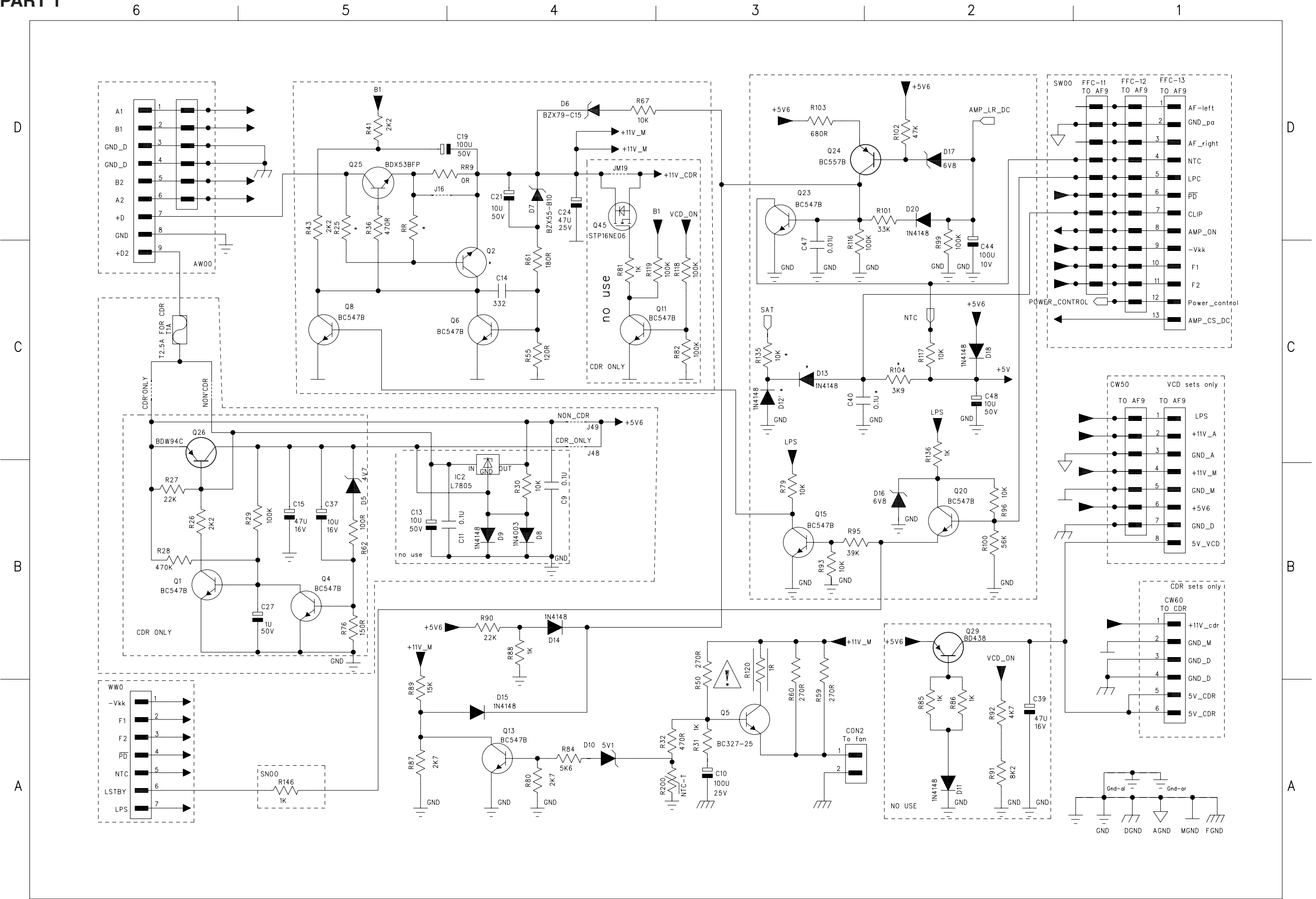
not in /21
/22 ONLY

CIRCUIT DIAGRAM - POWER BOARD_FWM372



6300 D10	6304 E12
1300 E9	6304 A11
1302 B9	6305 A6
1302 A1	6306 B14
1304 C1	6307 B13
1305 D3	6308 C11
1306 D1	6309 B4
1307-A F14	6310 C4
1307-B E14	6311 C9
1308 F12	6312 C3
1310 G1	6313 C5
1312 H1	6314 D3
1313 I9	6315 D4
1314 J1	6316 E6
1315 D1	6317 E6
1316 D1	6318 E6
1317 D8	6319 G3
1318 G8	6320 H4
1319 B9	6321 G5
1320 E9	6322 H5
1321 D9	6323 E5
1322 G9	6324 H2
1323 F3	6325 H3
1324 F13	6326 H3
1325 F13	6327 H3
1326 F13	6328 H3
1327 F13	6329 H3
1328 F13	6330 H11
1329 F13	6331 A10
1330 F13	6332 A11
1331 F13	6333 A11
1332 F13	6334 B4
1333 F13	6335 B2
1334 F13	6336 B2
1335 F13	6337 B8
1336 F13	6338 A4
1337 F13	6339 A4
1338 F13	6340 A13
1339 F13	6341 A3
1340 F13	6342 A5
1341 F13	6343 B12
1342 F13	6344 B14
1343 F13	6345 B12
1344 F13	6346 B14
1345 F13	6347 B12
1346 F13	6348 B14
1347 F13	6349 B12
1348 F13	6350 B14
1349 F13	6351 B12
1350 F13	6352 B14
1351 F13	6353 B12
1352 F13	6354 B14
1353 F13	6355 B12
1354 F13	6356 B14
1355 F13	6357 B12
1356 F13	6358 B14
1357 F13	6359 B12
1358 F13	6360 B14
1359 F13	6361 B12
1360 F13	6362 B14
1361 F13	6363 B12
1362 F13	6364 B14
1363 F13	6365 B12
1364 F13	6366 B14
1365 F13	6367 B12
1366 F13	6368 B14
1367 F13	6369 B12
1368 F13	6370 B14
1369 F13	6371 B12
1370 F13	6372 B14
1371 F13	6373 B12
1372 F13	6374 B14
1373 F13	6375 B12
1374 F13	6376 B14
1375 F13	6377 B12
1376 F13	6378 B14
1377 F13	6379 B12
1378 F13	6380 B14
1379 F13	6381 B12
1380 F13	6382 B14
1381 F13	6383 B12
1382 F13	6384 B14
1383 F13	6385 B12
1384 F13	6386 B14
1385 F13	6387 B12
1386 F13	6388 B14
1387 F13	6389 B12
1388 F13	6390 B14
1389 F13	6391 B12
1390 F13	6392 B14
1391 F13	6393 B12
1392 F13	6394 B14
1393 F13	6395 B12
1394 F13	6396 B14
1395 F13	6397 B12
1396 F13	6398 B14
1397 F13	6399 B12
1398 F13	6400 B14
1399 F13	6401 B12
1400 F13	6402 B14

CIRCUIT DIAGRAM - POWER BOARD_FWM572 PART 1



D

C

B

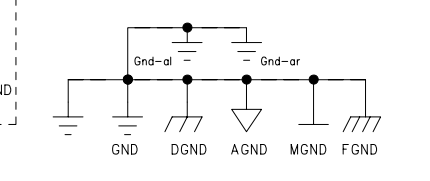
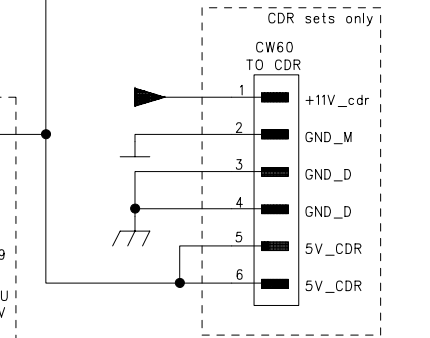
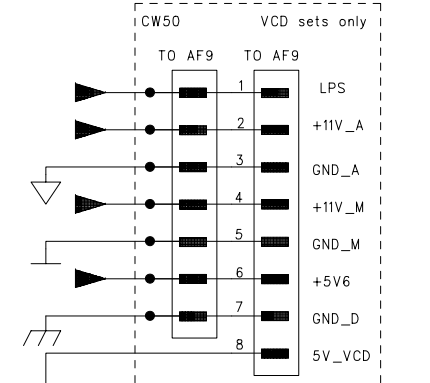
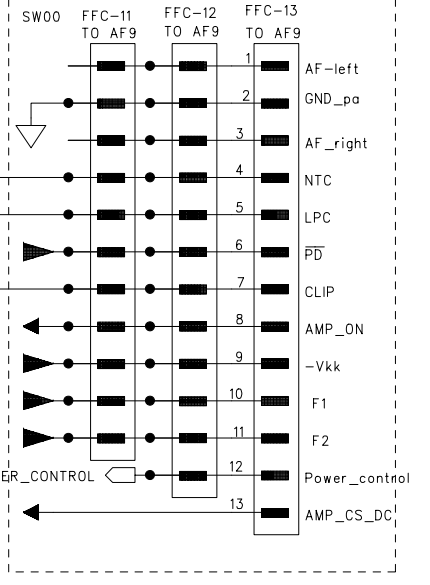
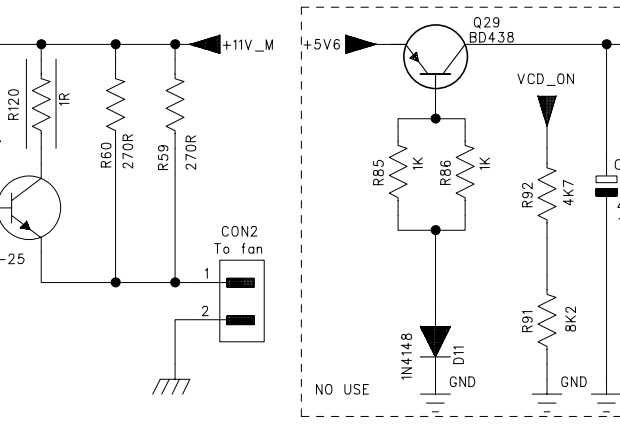
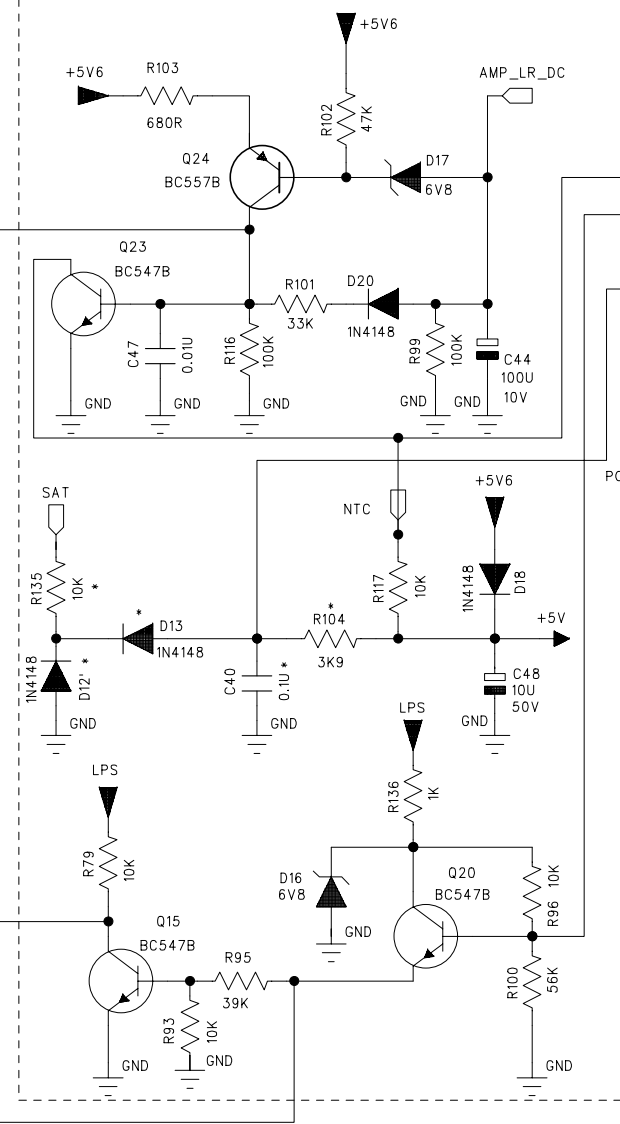
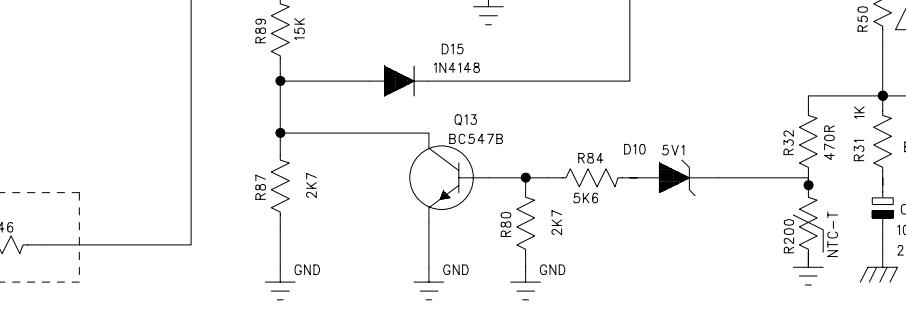
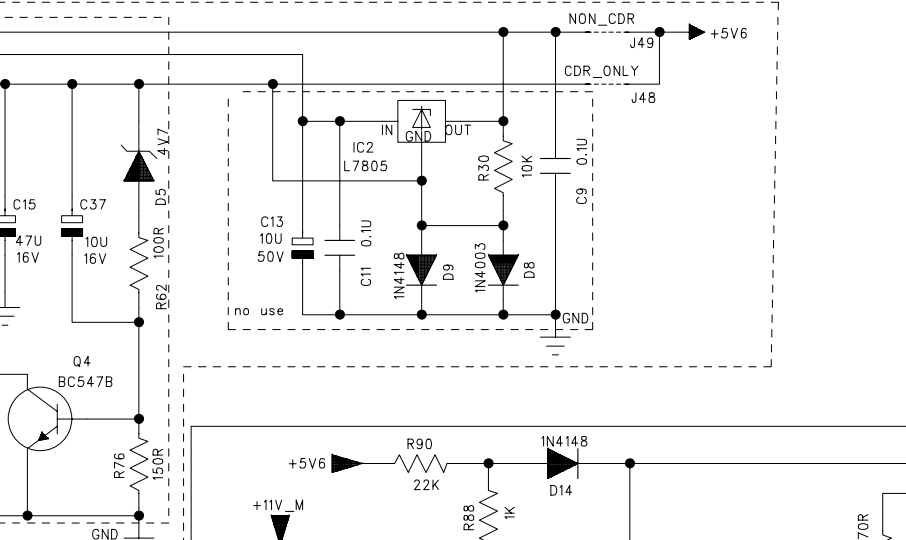
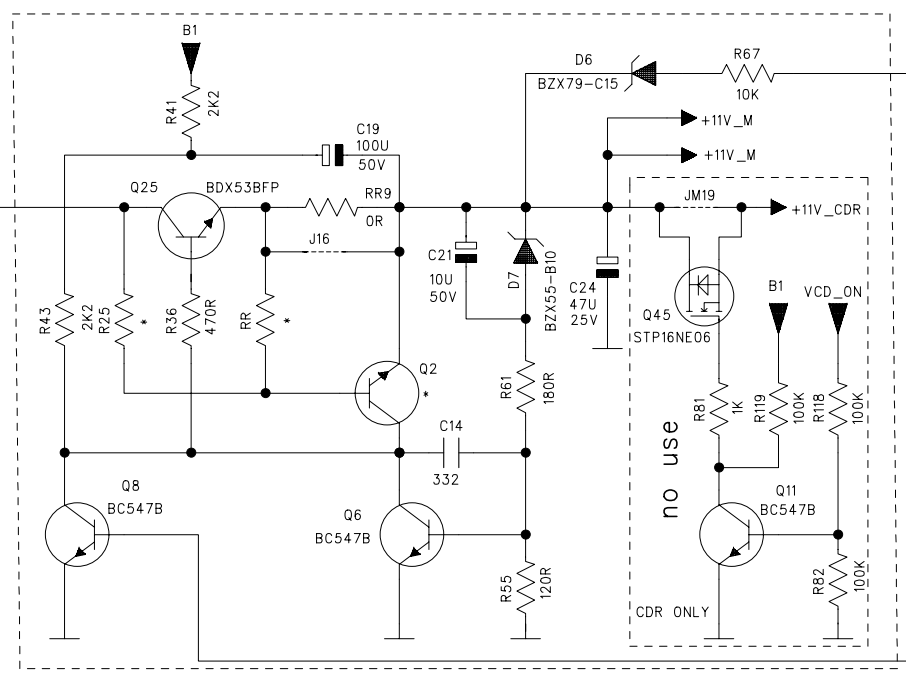
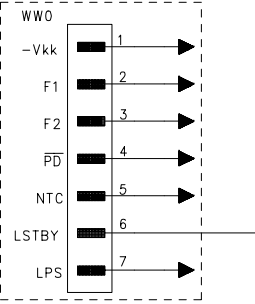
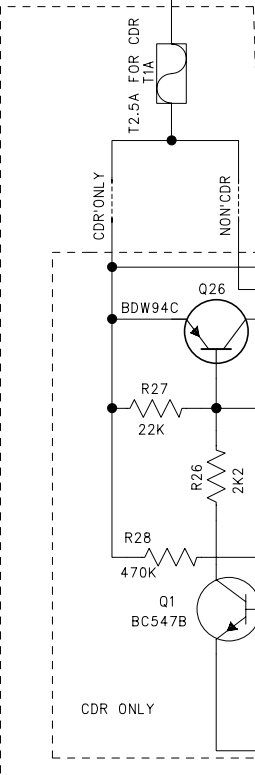
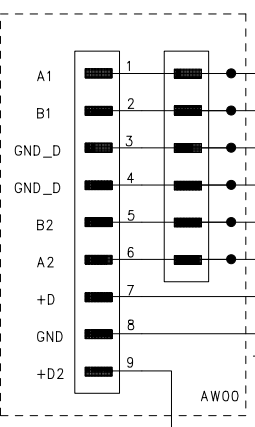
A

D

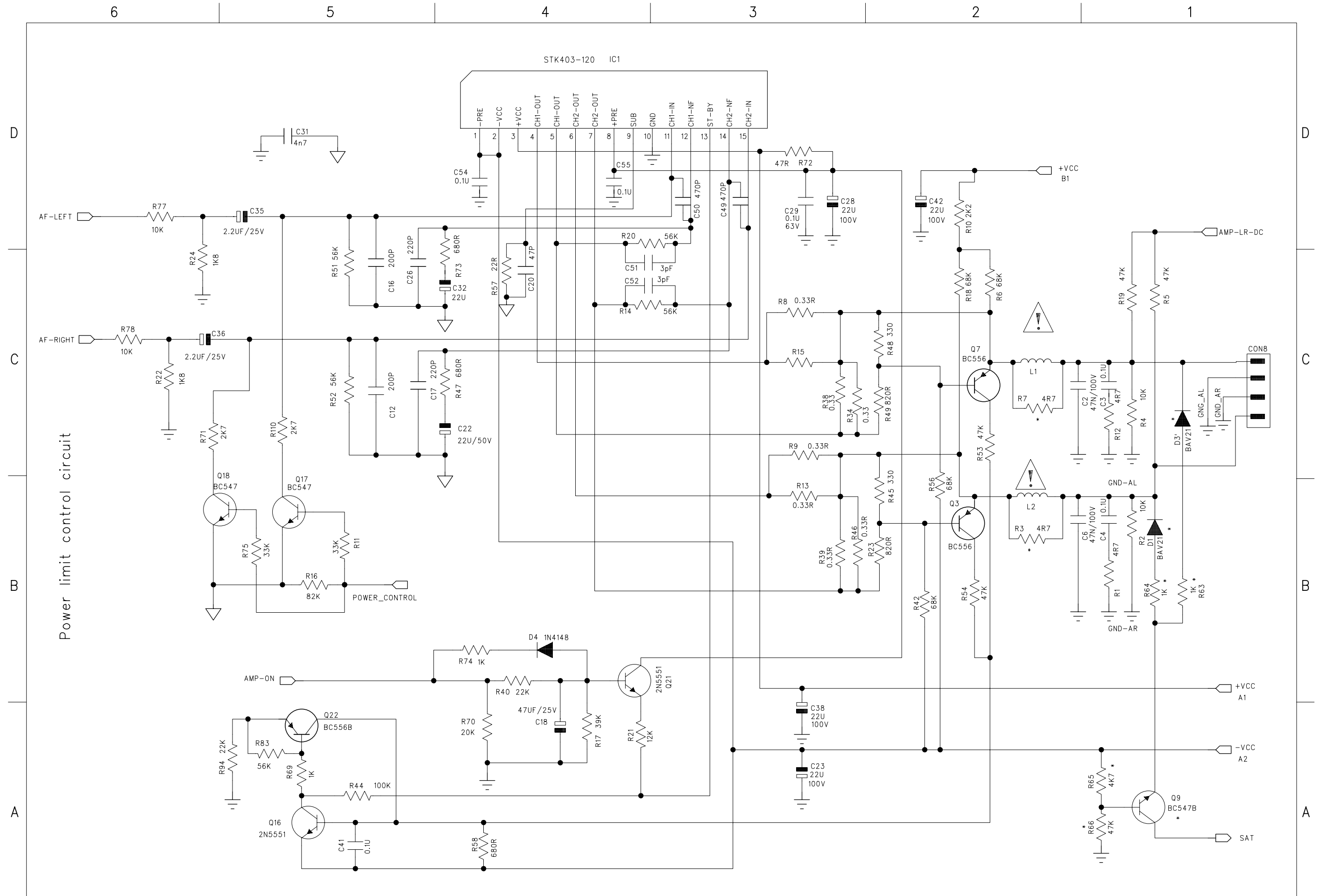
C

B

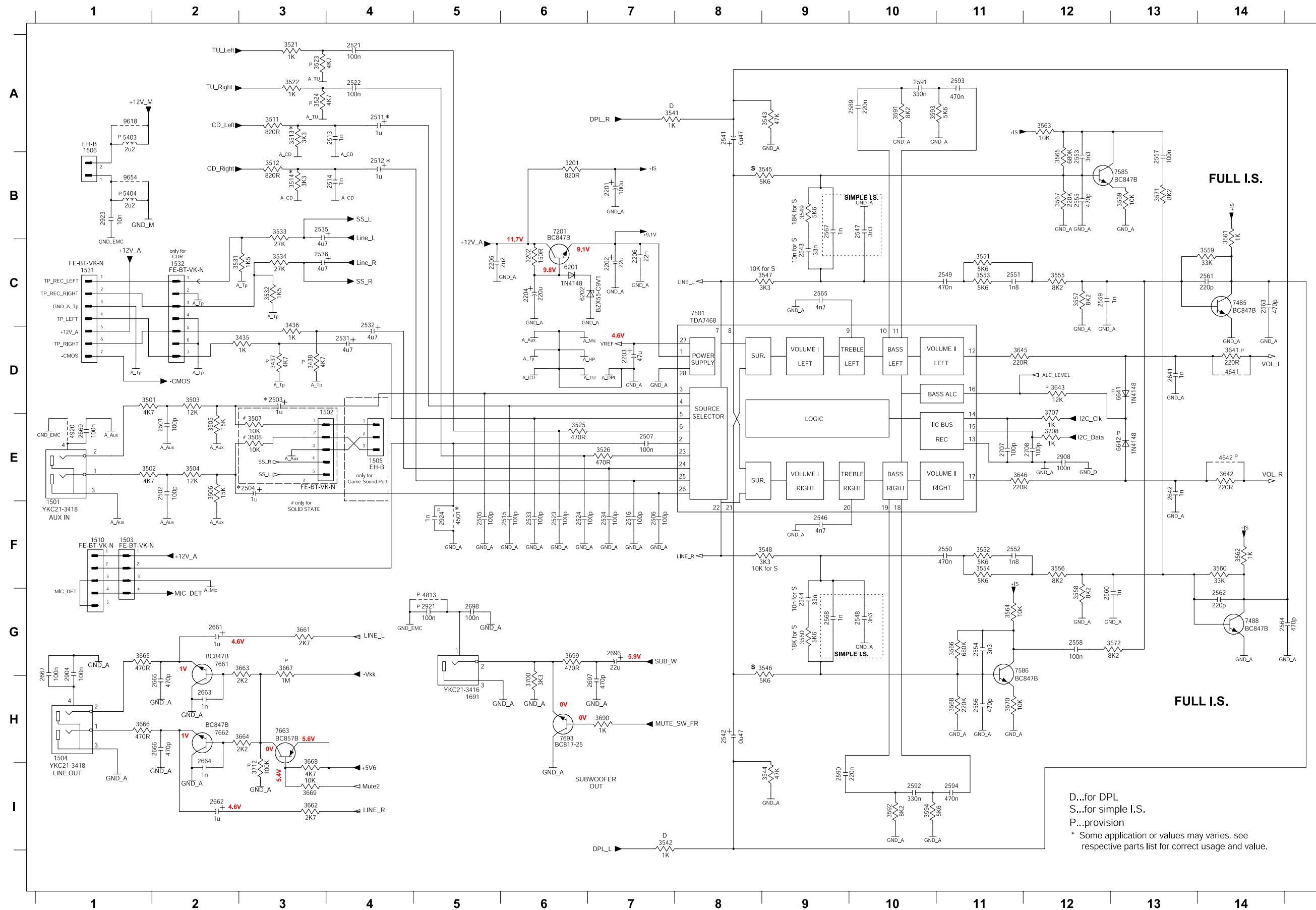
A



CIRCUIT DIAGRAM - POWER BOARD_FWM572 PART 2



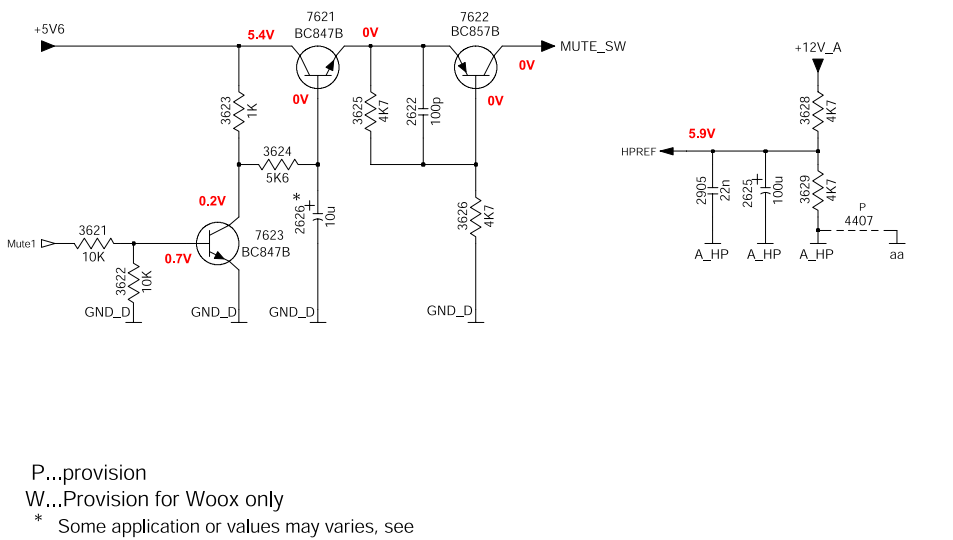
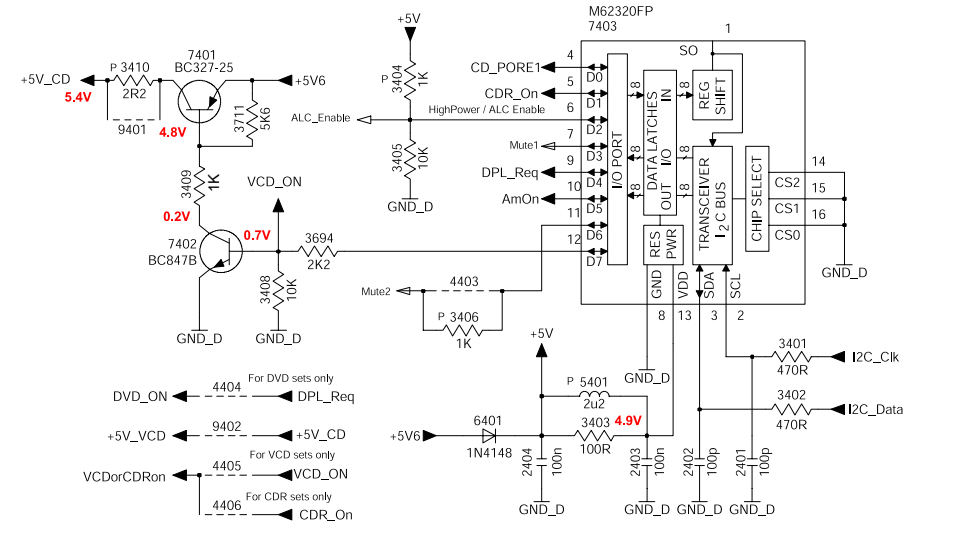
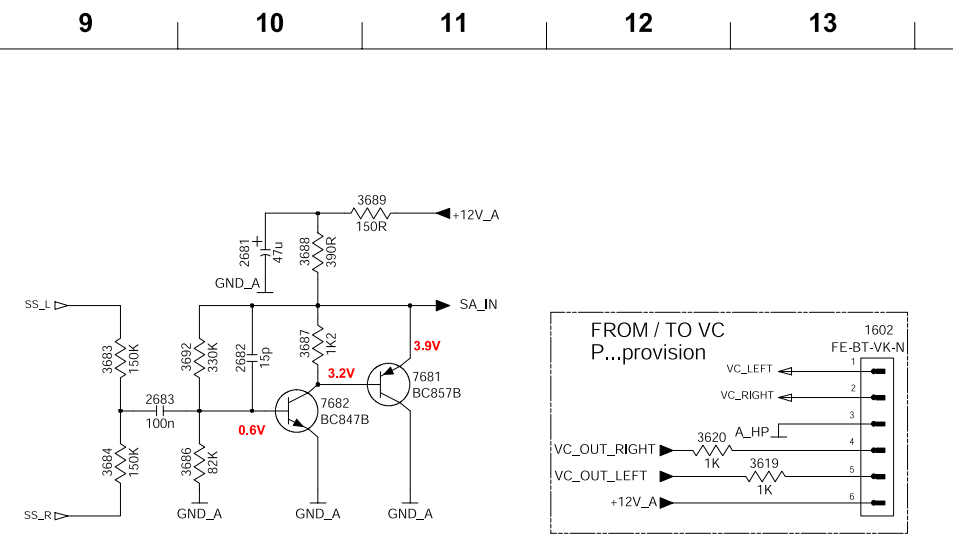
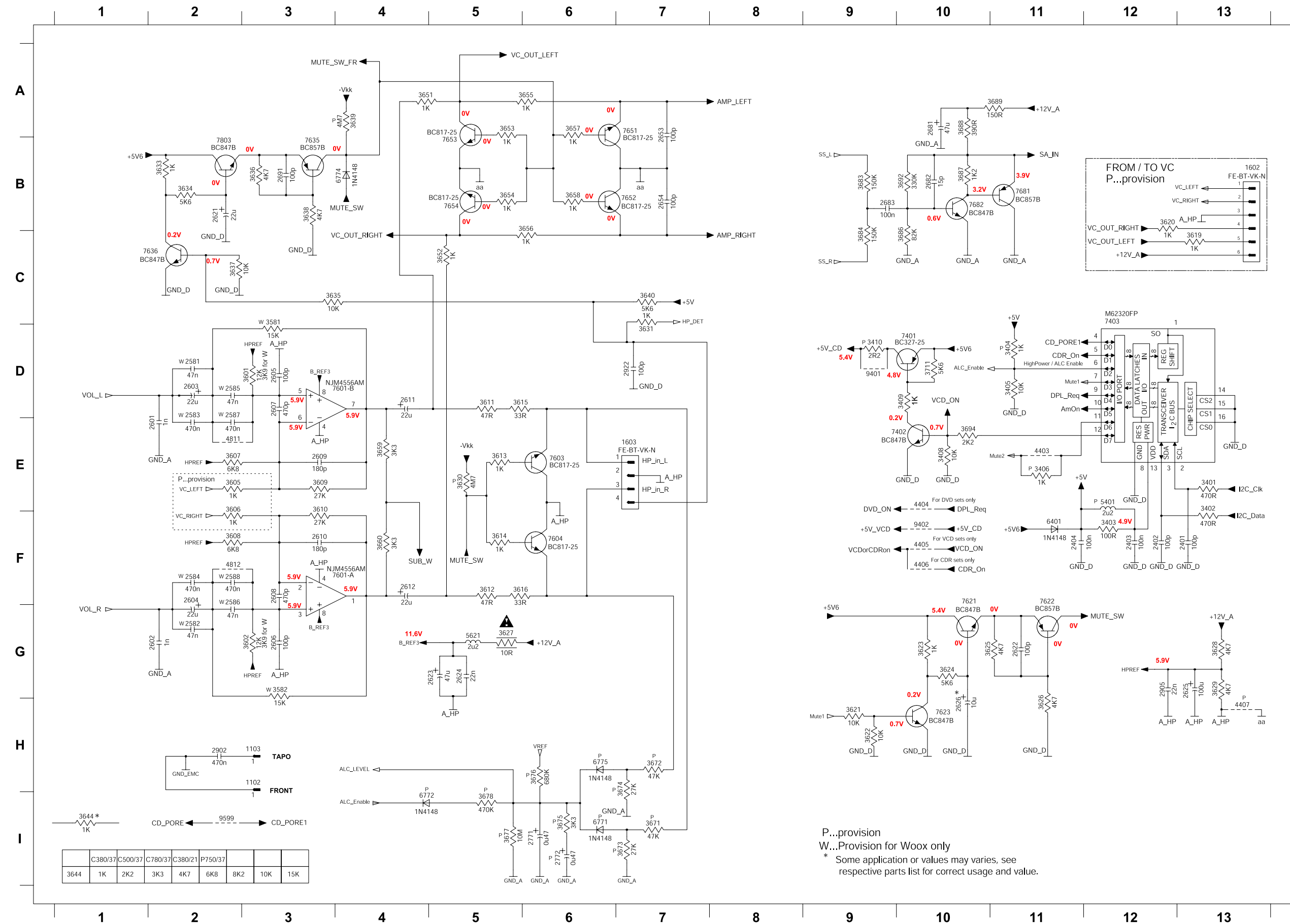
SOURCE SELECTION & SOUND PROCESSING CIRCUIT



- 1501 E1
- 1502 E3
- 1503 F1
- 1504 H1
- 1505 E4
- 1506 A1
- 1510 F1
- 1532 C1
- 1691 H5
- 2201 B7
- 2202 C7
- 2203 D7
- 2204 C6
- 2205 C5
- 2206 C7
- 2501 E2
- 2502 E2
- 2503 D3
- 2504 E3
- 2505 F5
- 2506 F7
- 2507 E7
- 2511 A4
- 2512 B4
- 2513 A4
- 2514 B4
- 2515 F6
- 2516 F7
- 2521 A4
- 2522 A4
- 2523 F6
- 2524 F6
- 2531 D4
- 2532 C4
- 2533 F6
- 2534 F7
- 2535 B3
- 2536 C3
- 2541 A8
- 2542 H8
- 2543 C9
- 2544 F9
- 2545 F9
- 2546 B10
- 2548 C11
- 2549 C11
- 2550 F11
- 2551 C11
- 2552 F11
- 2553 B12
- 2554 G11
- 2555 B12
- 2556 H11
- 2557 B13
- 2558 G12
- 2559 C12
- 2560 G12
- 2561 C14
- 2562 G14
- 2563 C14
- 2564 G14
- 2565 C9
- 2567 B9
- 2568 G9
- 2589 A10
- 2590 I9
- 2591 A10
- 2592 I10
- 2593 A11
- 2594 I11
- 2641 D13
- 2642 E13
- 2661 G2
- 2662 I2
- 2663 H2
- 2664 I2
- 2665 H2
- 2666 H2
- 2667 G1
- 2669 E1
- 2696 G7
- 2697 H7
- 2698 G5
- 2707 E11
- 2708 E12
- 2904 G1
- 2908 E12
- 2921 G5
- 2923 B1
- 2924 F5
- 3201 B6
- 3202 C6
- 3435 D3
- 3436 D3
- 3437 D3
- 3501 D1
- 3502 E1
- 3503 D2
- 3504 E2
- 3505 E2
- 3506 E2
- 3507 E3
- 3508 E3
- 3511 A3
- 3512 B3
- 3513 A3
- 3514 B3
- 3521 A3
- 3522 A3
- 3523 A3
- 3524 A3
- 3525 E6
- 3526 E7
- 3527 C2
- 3528 C3
- 3529 C3
- 3530 C3
- 3531 C2
- 3532 C3
- 3533 B3
- 3534 C3
- 3541 A7
- 3542 I7
- 3543 A9
- 3544 I9
- 3545 B9
- 3546 G9
- 3547 C9
- 3548 F9
- 3549 B9
- 3550 G9
- 3551 C11
- 3552 F11
- 3553 C11
- 3554 F11
- 3555 C12
- 3556 F12
- 3557 C12
- 3558 G12
- 3559 C14
- 3560 F14
- 3561 B14
- 3562 F14
- 3563 A12
- 3564 G11
- 3565 B12
- 3566 G11
- 3567 B12
- 3568 H11
- 3569 B13
- 3570 H11
- 3571 B13
- 3572 G13
- 3591 A10
- 3592 H10
- 3593 A10
- 3594 H10
- 3641 D14
- 3642 E14
- 3643 D12
- 3644 G11
- 3645 E11
- 3646 G11
- 3647 G3
- 3648 I3
- 3699 H7
- 3700 H6
- 3707 E12
- 3708 E12
- 3712 I3
- 4501 F5
- 4641 D14
- 4642 E14
- 4813 G5
- 4920 E1
- 5403 A1
- 5404 B1
- 6201 C6
- 6202 C6
- 6641 D13
- 6642 E13
- 7201 B6
- 7485 C14
- 7488 G14
- 7501 C8
- 7585 B13
- 7661 G2
- 7662 H2
- 7663 H3
- 7693 H6
- 9618 A1
- 9654 B1

D...for DPL
 S...for simple I.S.
 P...provision
 * Some application or values may varies, see respective parts list for correct usage and value.

HEADPHONE AMPLIFIER & I²C EXPANDER CIRCUIT

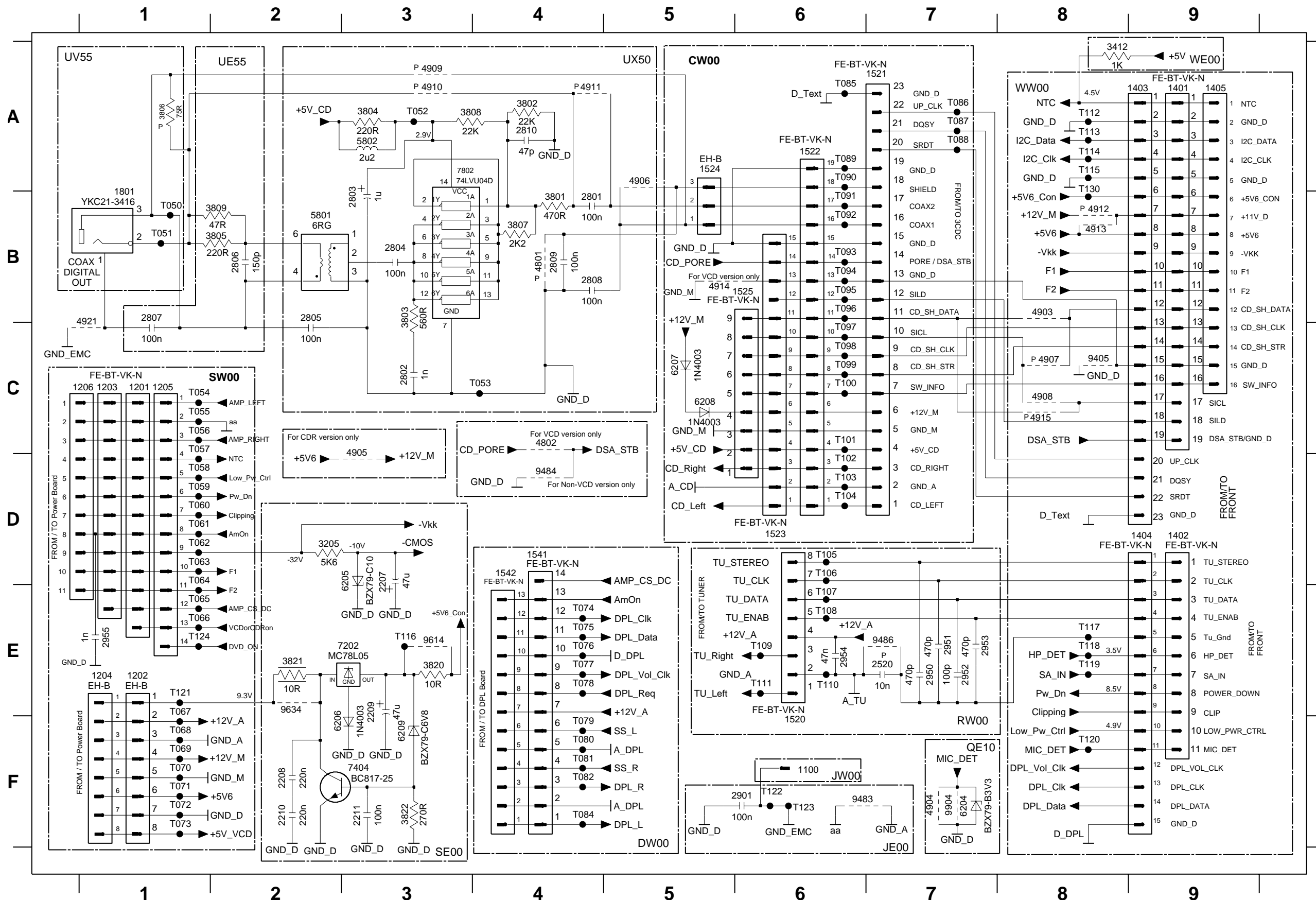


- 1102 H3
- 1103 H3
- 1602 B13
- 1603 E7
- 2401 F13
- 2402 F12
- 2403 F12
- 2404 F11
- 2581 D2
- 2582 G2
- 2583 D2
- 2584 F2
- 2585 D2
- 2586 F2
- 2587 D2
- 2588 F2
- 2601 E2
- 2602 G2
- 2603 D2
- 2604 F2
- 2605 D3
- 2606 G3
- 2607 D3
- 2608 F3
- 2609 E3
- 2610 F3
- 2611 D4
- 2612 F4
- 2621 B2
- 2622 G11
- 2623 G5
- 2624 G5
- 2625 G13
- 2626 H10
- 2653 A7
- 2654 B7
- 2681 A10
- 2682 B10
- 2683 B9
- 2691 B3
- 2771 I6
- 2772 I6
- 2902 H2
- 2905 G12
- 2922 D7
- 3401 E13
- 3402 E13
- 3403 F12
- 3404 D11
- 3405 D11
- 3406 E11
- 3408 E10
- 3409 D10
- 3410 D9
- 3581 D3
- 3582 G3
- 3601 D3
- 3602 G3
- 3605 E2
- 3606 F2
- 3607 E2
- 3608 F2
- 3609 E3
- 3610 F3
- 3611 D5
- 3612 F5
- 3613 E5
- 3614 F5
- 3615 D5
- 3616 F5
- 3619 C13
- 3620 B12
- 3621 H9
- 3622 H9
- 3623 G10
- 3624 G10
- 3625 G10
- 3626 H11
- 3627 G5
- 3628 G13
- 3629 G13
- 3630 E5
- 3631 D7
- 3633 B2
- 3634 B2
- 3635 C3
- 3636 B3
- 3637 C2
- 3638 B3
- 3639 A4
- 3640 C7
- 3644 I1
- 3651 A4
- 3652 C5
- 3653 A5
- 3654 B5
- 3655 A6
- 3656 C6
- 3657 A6
- 3658 B6
- 3659 E4
- 3660 F4
- 3671 I7
- 3672 H7
- 3673 I7
- 3674 H7
- 3675 I6
- 3676 H6
- 3677 I5
- 3678 I5
- 3683 B9
- 3684 C9
- 3686 C10
- 3687 B10
- 3688 A10
- 3689 A11
- 3692 B10
- 3694 E10
- 3711 D10
- 4403 E11
- 4404 E10
- 4405 F10
- 4406 F10
- 4407 H13
- 4811 E2
- 4812 F2
- 5401 E12
- 5621 G5
- 6401 F11
- 6771 I6
- 6772 I4
- 6774 B4
- 6775 H6
- 7401 D10
- 7402 E10
- 7403 C12
- 7601-A G3
- 7601-B D3
- 7603 E6
- 7604 F6
- 7621 F10
- 7622 F11
- 7623 H10
- 7635 B3
- 7636 C2
- 7651 A7
- 7652 B7
- 7653 B5
- 7654 B5
- 7681 B11
- 7682 B10
- 7803 B2
- 9401 D9
- 9402 F10
- 9599 I2

P...provision
W...Provision for Woox only
* Some application or values may varies, see respective parts list for correct usage and value.

	C380/37	C500/37	C780/37	C380/21	P750/37
3644	1K	2K2	3K3	4K7	6K8
					8K2
					10K
					15K

DIGITAL OUT & INTERCONNECTION CIRCUIT



- 1100 F6
- 1201 C1
- 1202 E1
- 1203 C1
- 1204 E1
- 1205 C1
- 1206 C1
- 1401 A9
- 1402 D9
- 1403 A9
- 1404 D9
- 1405 A9
- 1520 E6
- 1521 A7
- 1522 A6
- 1523 D6
- 1524 A5
- 1525 B5
- 1541 D4
- 1542 D4
- 1801 B1
- 2207 D3
- 2208 F2
- 2209 E3
- 2210 F2
- 2211 F3
- 2520 E7
- 2801 B4
- 2802 C3
- 2803 B3
- 2804 B3
- 2805 B2
- 2806 B2
- 2807 B1
- 2808 B4
- 2809 B4
- 2810 A4
- 2901 F6
- 2950 E7
- 2951 E7
- 2952 E7
- 2953 E7
- 2954 E6
- 2955 E1
- 3205 D2
- 3412 A8
- 3801 B4
- 3802 A4
- 3803 B3
- 3804 A3
- 3805 B2
- 3806 A1
- 3807 B4
- 3808 A3
- 3809 B2
- 3820 E3
- 3821 E2
- 3822 F3
- 4801 B4
- 4802 C4
- 4903 B8
- 4904 F7
- 4905 D3
- 4906 A5
- 4907 C8
- 4908 C8
- 4909 A3
- 4910 A3
- 4911 A4
- 4912 B8
- 4913 B8
- 4914 B5
- 4915 C8
- 4921 C1
- 5801 B2
- 5802 A3
- 6204 F7
- 6205 D3
- 6206 F2
- 6207 C5
- 6208 C5
- 6209 F3
- 7202 E3
- 7404 F3
- 7802 A3
- 9405 C8
- 9483 F6
- 9484 D4
- 9486 E7
- 9614 E3
- 9634 E2
- 9904 F7
- T050 B1
- T051 B1
- T052 C4
- T054 C1
- T055 C1
- T056 C1
- T057 C1
- T058 D1
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