

TOOTA

ALPINE

BOSCH

 **MECCA**

NISSEI

 **PIONEER®**

SANKEI

TKR

eltec®

BELTEK

CLARION

 **MOTORADIO**
TRADIÇÃO EM SONORIDADE
INDÚSTRIA GENUINAMENTE BRASILEIRA

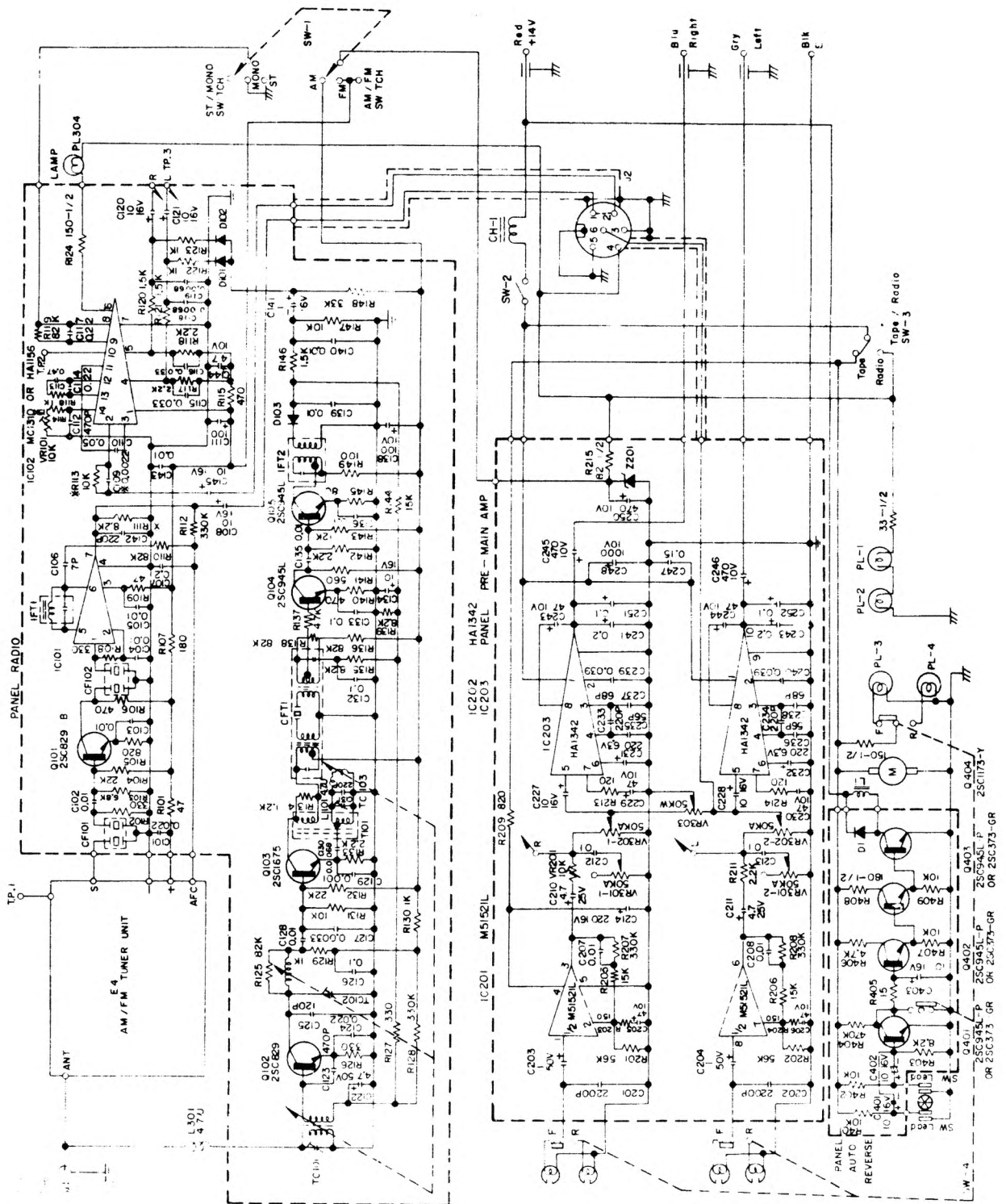
PHILIPS

 **ROADSTAR®**

 **SANYO**

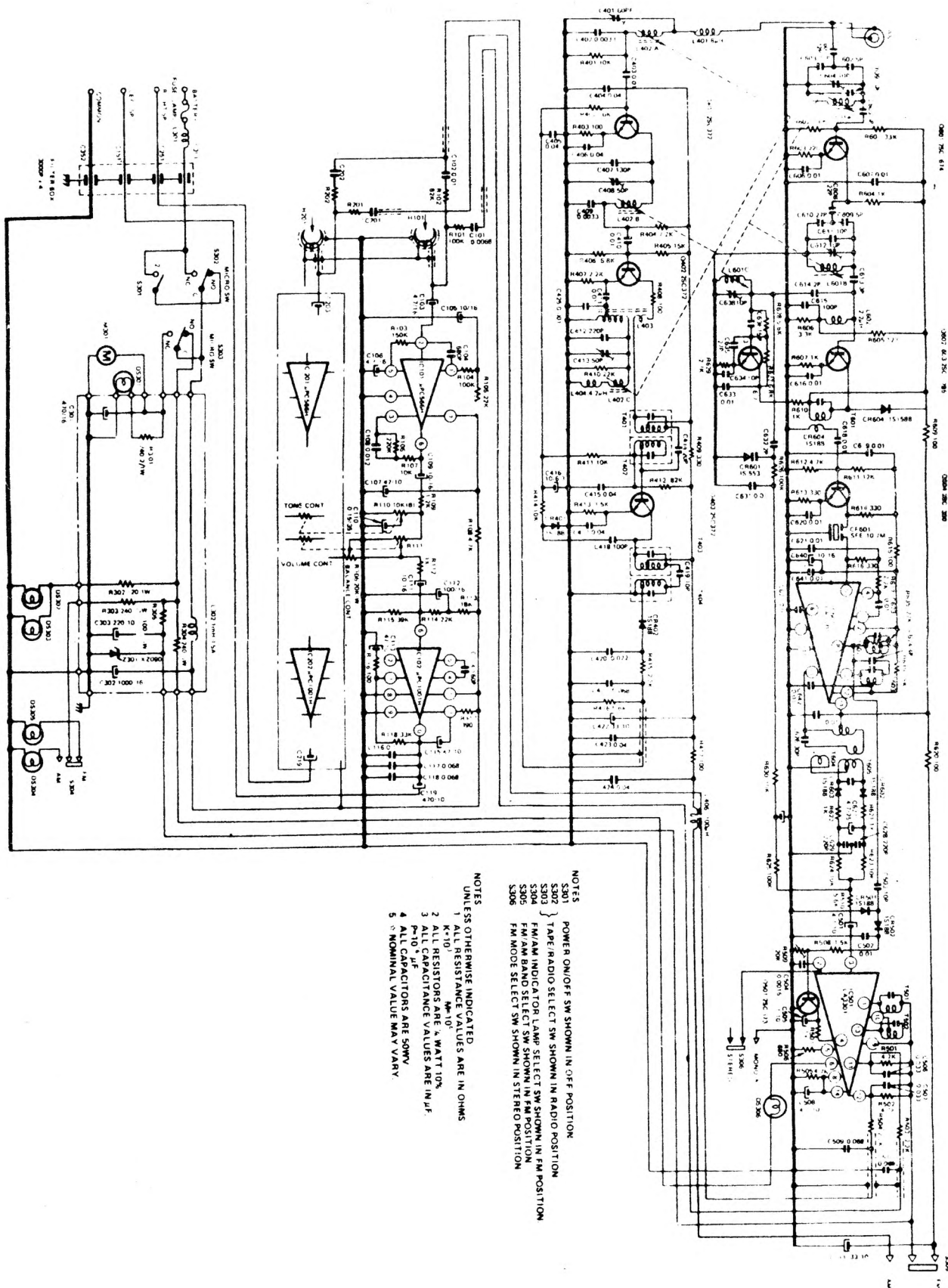
VOLUME
4

CIRCUIT DIAGRAM

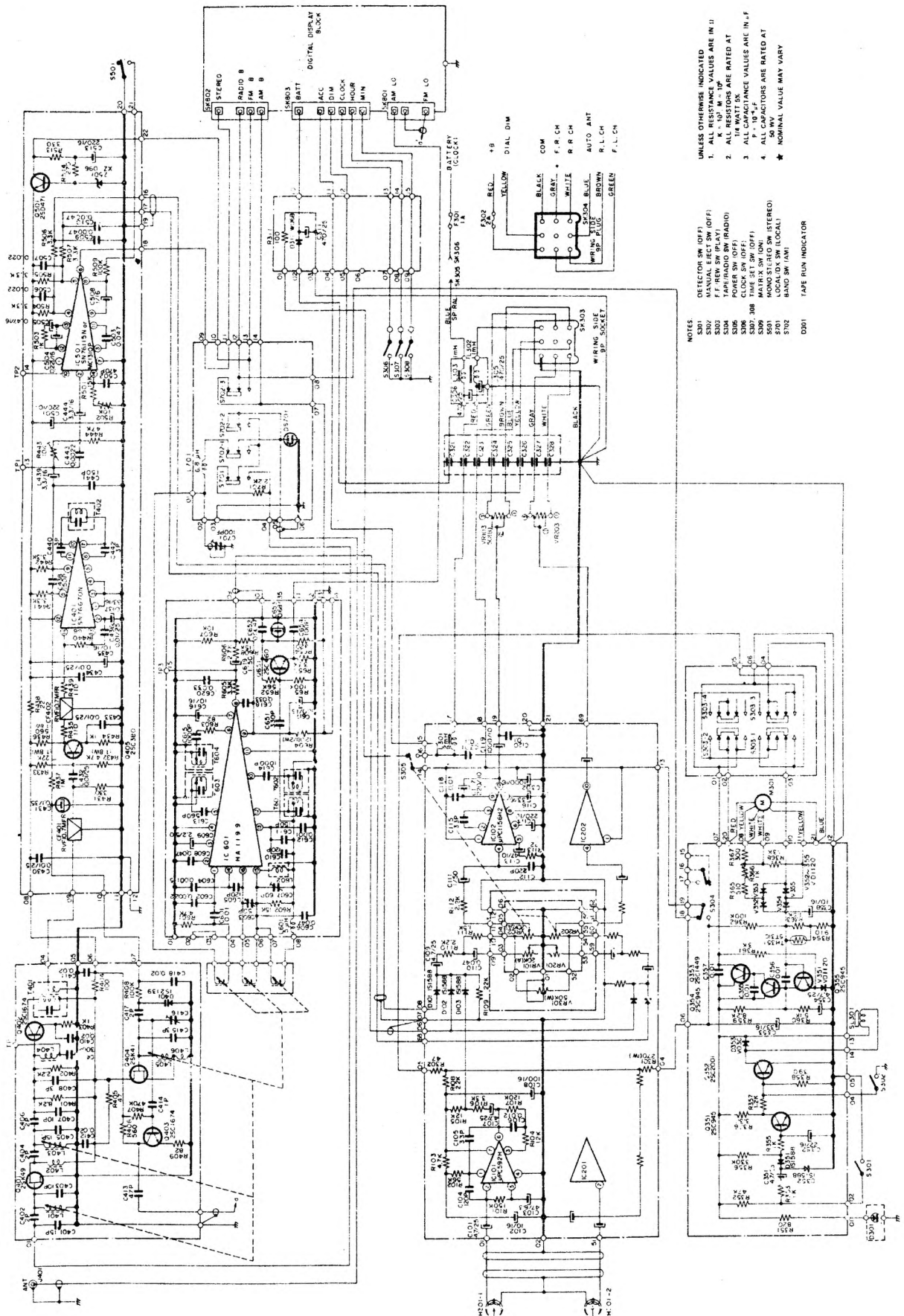


ALPINE - MOD. CM 630

SCHEMATIC DIAGRAM



BELTEK M-6665 S



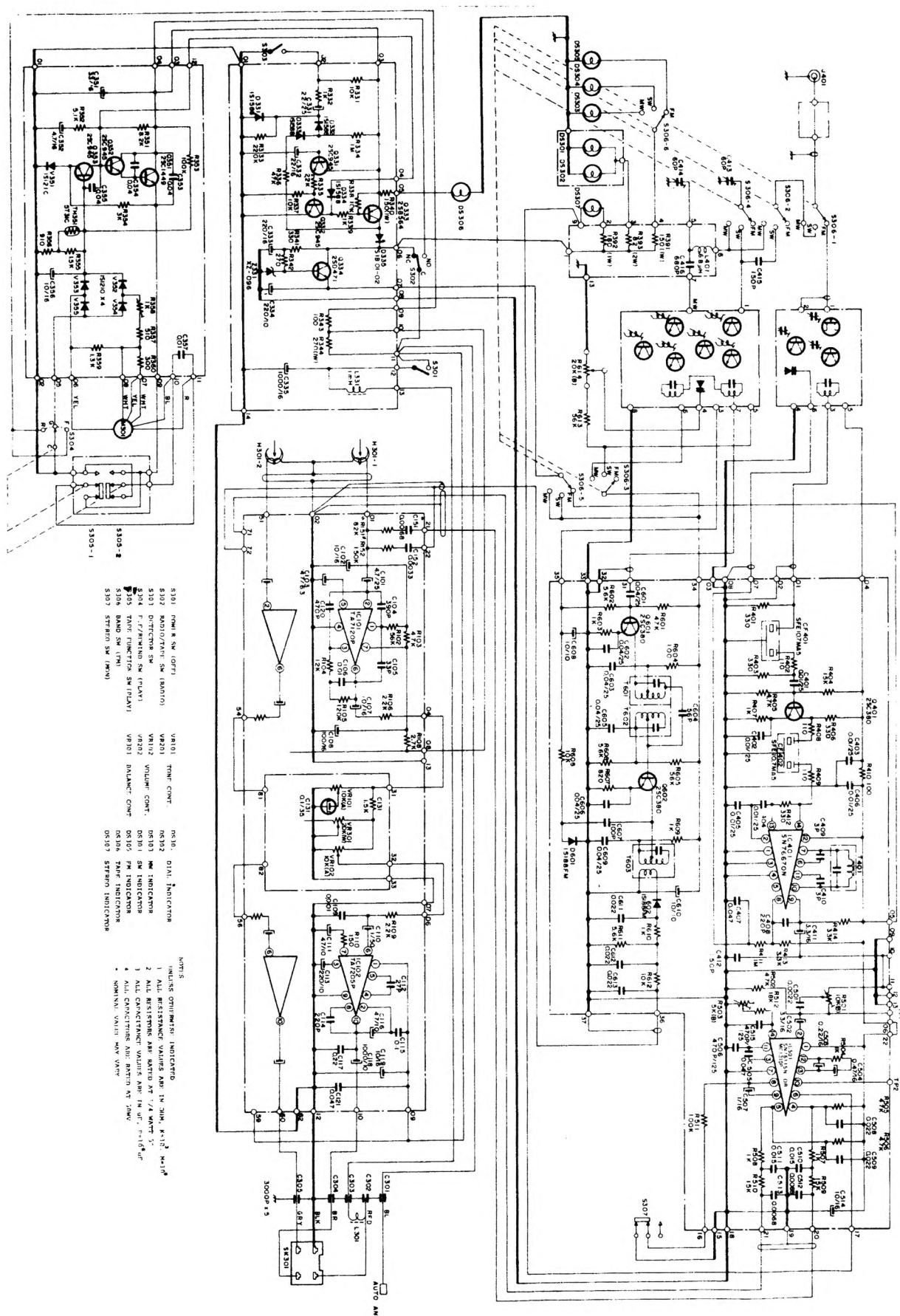
UNLESS OTHERWISE INDICATED
 1. ALL RESISTOR VALUES ARE IN Ω
 2. ALL RESISTORS ARE RATED AT 1/4 WATT 5%
 3. ALL CAPACITOR VALUES ARE IN P.F.
 4. ALL CAPACITORS ARE RATED AT 50 WV
 * NOMINAL VALUE MAY VARY

NOTES:
 IC201 (OFF)
 IC202 (OFF)
 IC203 (OFF)
 F.F. (REW. SW. (PLAY))
 TARE-RADIO SW. (RADIO)
 S101 (OFF)
 S102 (OFF)
 S103 (OFF)
 S104 (OFF)
 S105 (OFF)
 S106 (OFF)
 S107 (OFF)
 LOCAL SW. (LOCAL)
 BAND SW. (AM)
 DDD1 (FACE RUN INDICATOR)

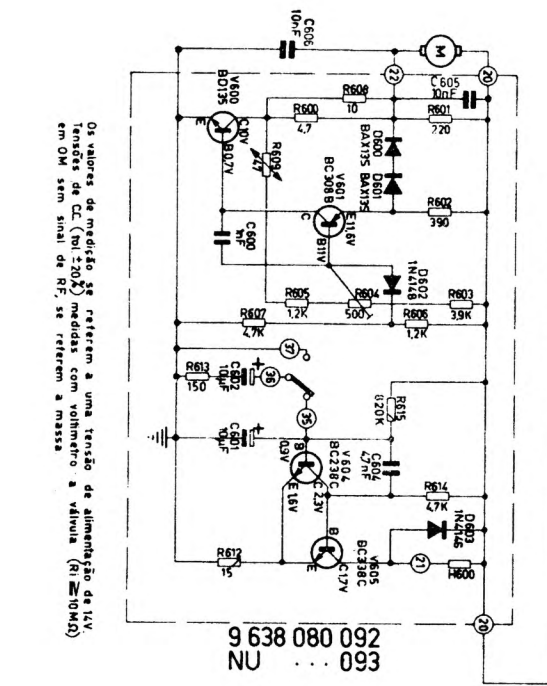
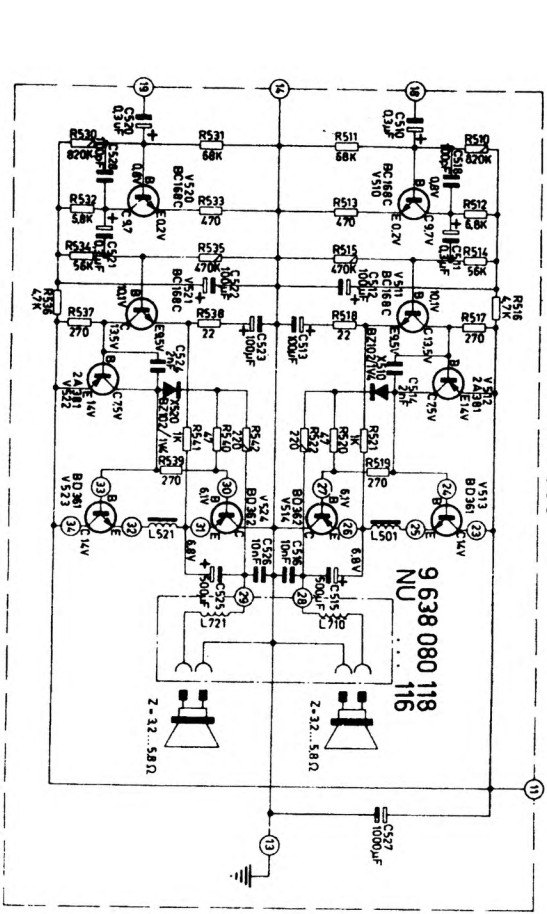
WIRING SIDE
 BLACK
 WHITE
 RED
 BLUE
 GREEN
 BROWN
 YELLOW
 GRAY
 F.R. CH
 R.R. CH
 AUTO. ANT
 R.L. CH
 F.L. CH

BELTEK - MR 551

BELTEK CORPORATION



BELTEK - MT 512

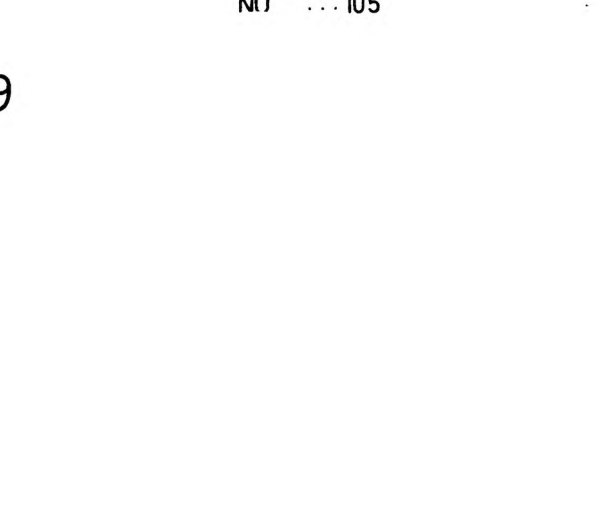
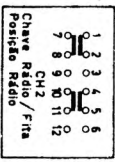
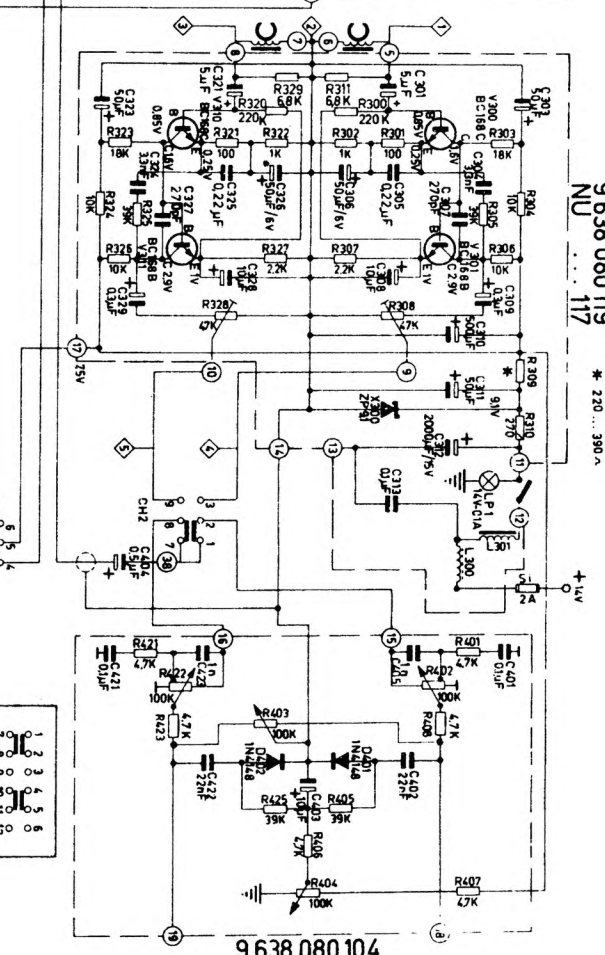
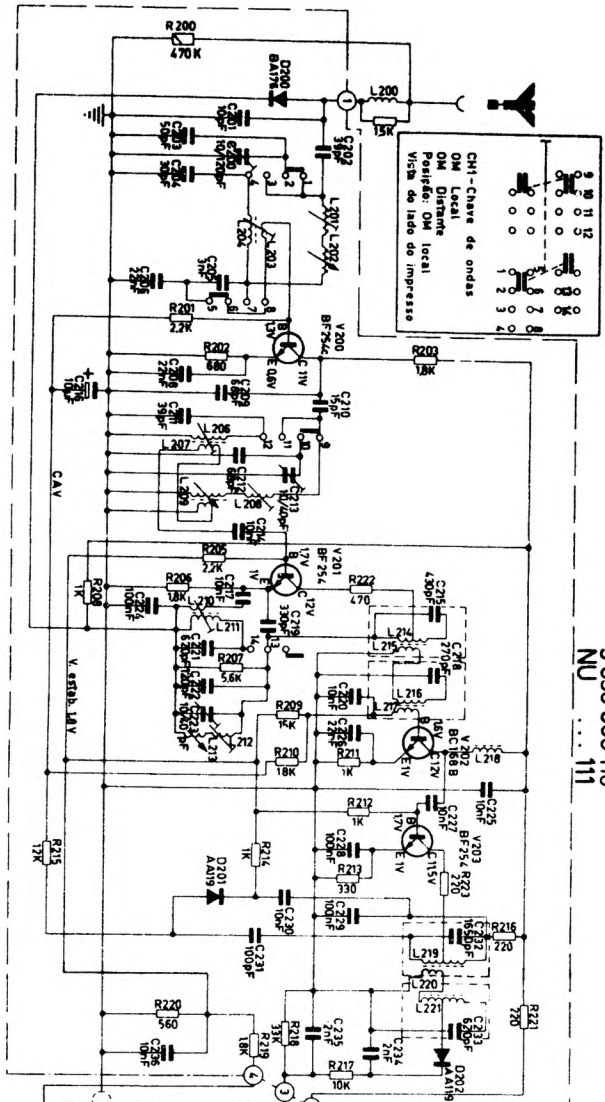


Os valores de medição se referem a uma tensão de alimentação de 11V.
Tabela de C.C. (10:20) medidas com voltmetro a vácuo (V) (10:10M).
em OM sem sinal de R.P. se referem a massa.

EXPLICAÇÃO DOS SíMBOLOS

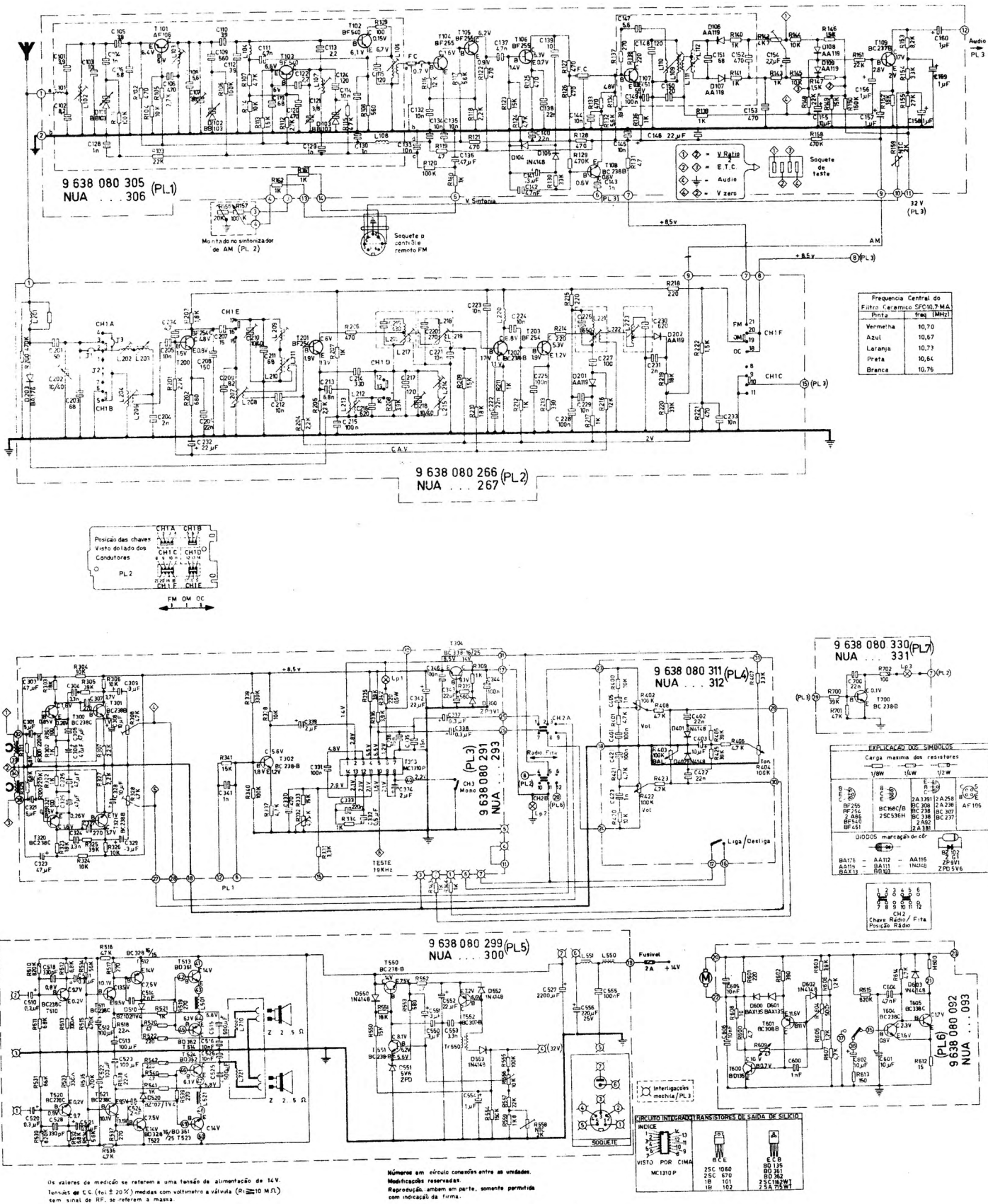
Carga	máxima	dos	resistores
1/W		1/W	
Condições dos Transistores			
A	C	B	2A381/2A238
B	C	B	2A381/2A238
C	B	C	2A381/2A238
D	C	B	2A381/2A238
E	C	B	2A381/2A238
F	C	B	2A381/2A238
G	C	B	2A381/2A238
H	C	B	2A381/2A238
I	C	B	2A381/2A238
J	C	B	2A381/2A238
K	C	B	2A381/2A238
L	C	B	2A381/2A238
M	C	B	2A381/2A238
N	C	B	2A381/2A238
O	C	B	2A381/2A238
P	C	B	2A381/2A238
Q	C	B	2A381/2A238
R	C	B	2A381/2A238
S	C	B	2A381/2A238
T	C	B	2A381/2A238
U	C	B	2A381/2A238
V	C	B	2A381/2A238
W	C	B	2A381/2A238
X	C	B	2A381/2A238
Y	C	B	2A381/2A238
Z	C	B	2A381/2A238
Diodos			
AA119	B2302/V4	IN4164	BA413
			ZP9V1

Números em círculo conhecidos entre as unidades.
Modificações reservadas.
Reprodução também em parte somente permitida
com indicação da firma.

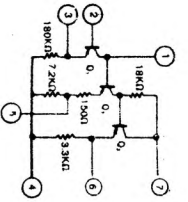
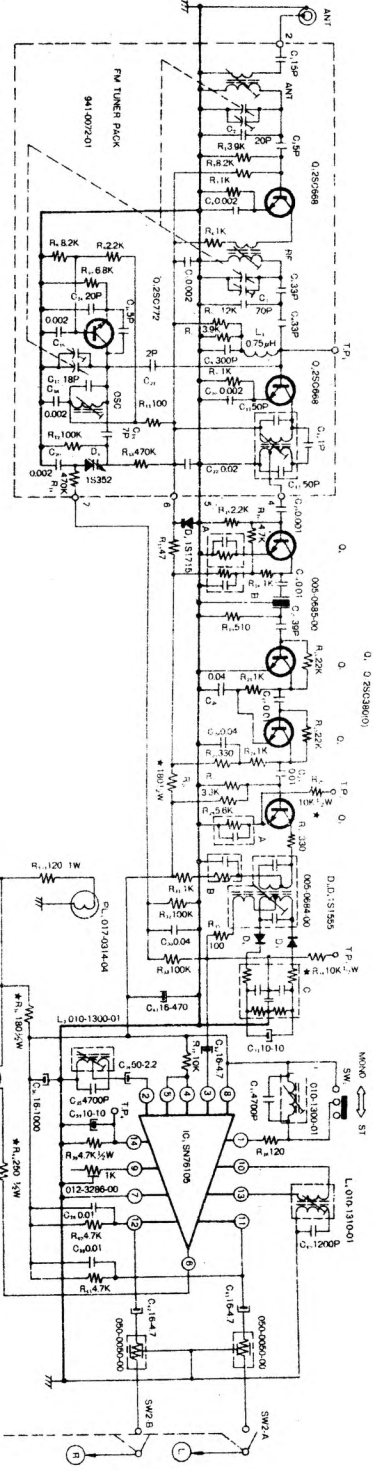
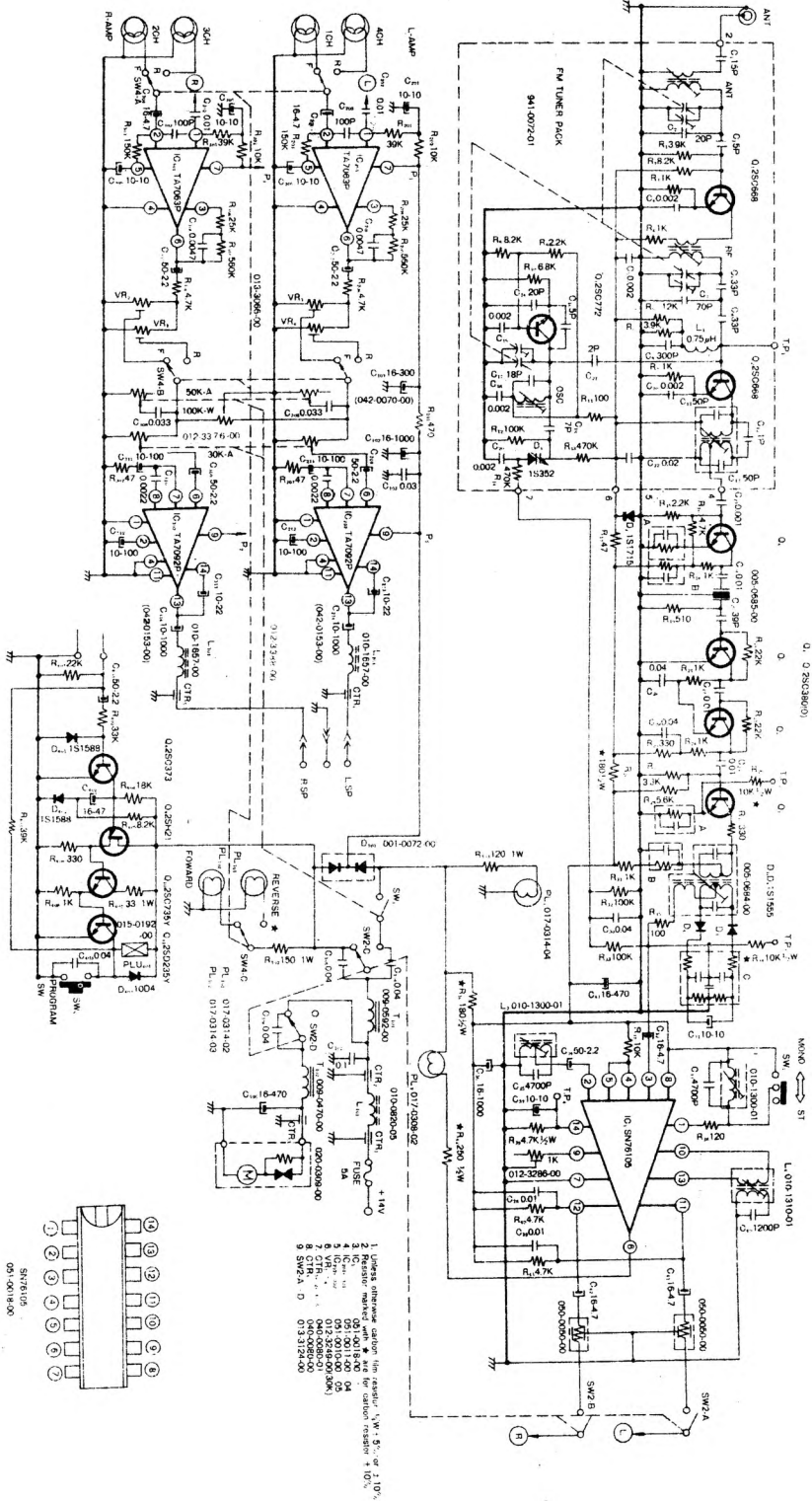


BOSCH - MOD. IP 512 TIPO V

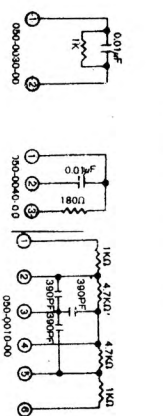
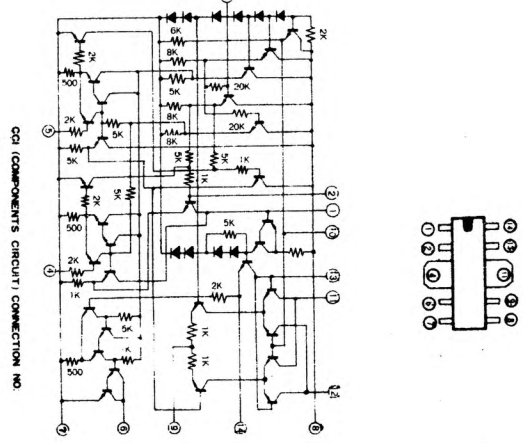
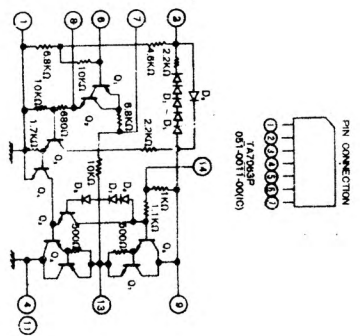
Transistores de Silício



BOSCH - IP 743 - Tipo AC



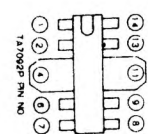
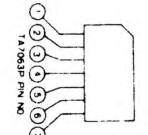
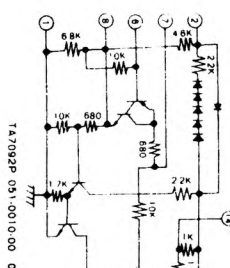
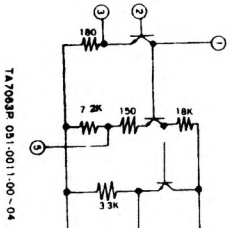
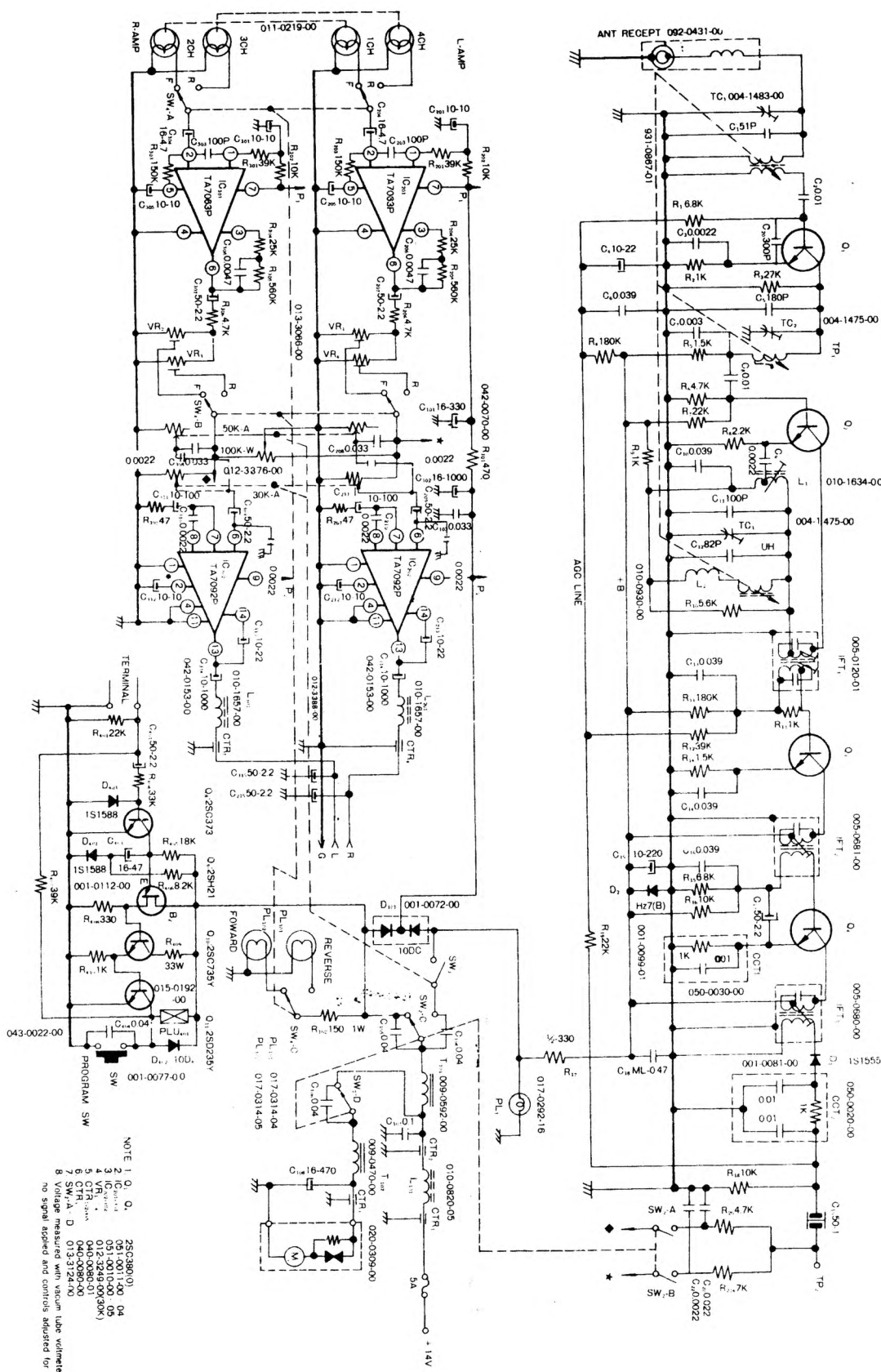
EQUIVALENT CIRCUIT



CLARION - MOD. PE-650-A

AMP BLOCK

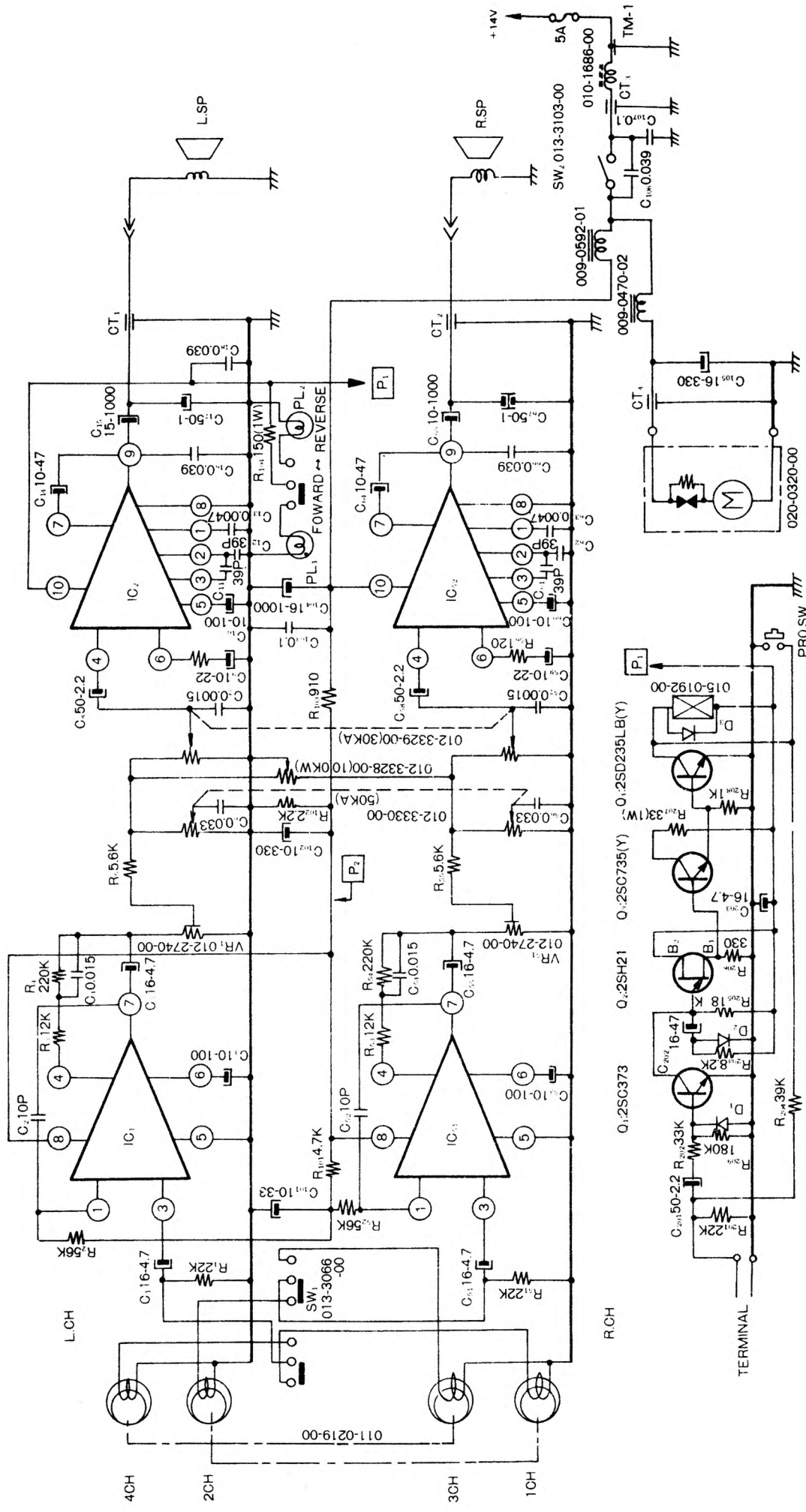
MW TUNER BLOCK



NOTE
 1 Conduct measurements Under no signal conditions with a tester
 an internal resistance of 4KΩ/V and at the following range
 2.5V or greater 10V range
 0.5V or greater 10V range
 Below 0.5V 0.5V range
 Measurement Value may be different, if measured by wrong range

NOTE 1 Q1, Q2 2SC390(1)
 2 IC_{OP} T4708SP
 3 IC_{OP} T4708SP
 4 IC_{OP} T4708SP
 5 CTR₁ 040-0089-00
 6 CTR₂ 040-0089-00
 7 SW_A, D 0133124-00
 8 Voltage measured with vacuum tube voltmeter or equivalent meter.
 no signal applied and controls adjusted for normal operation

CLARION - MOD. PE-651-A

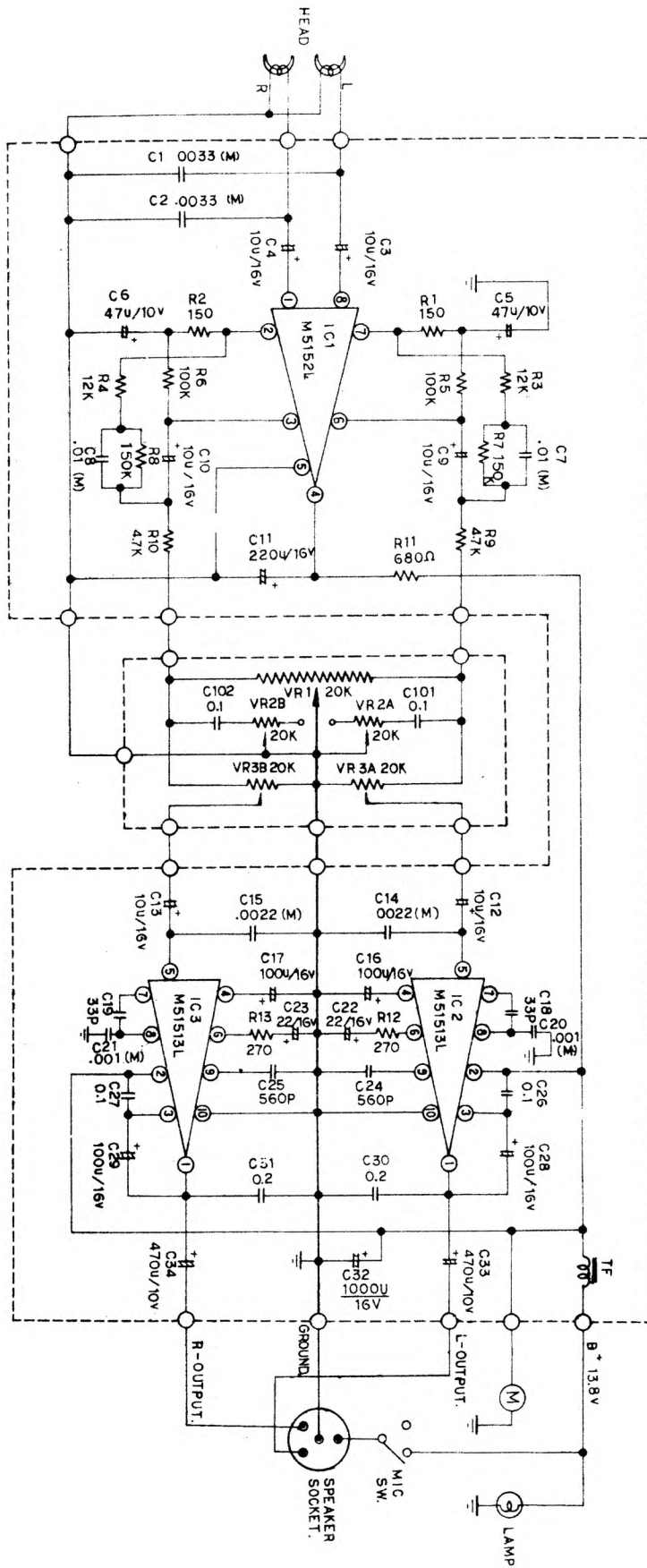


D₁: 001-0112-00
 D₂: 001-0077-00

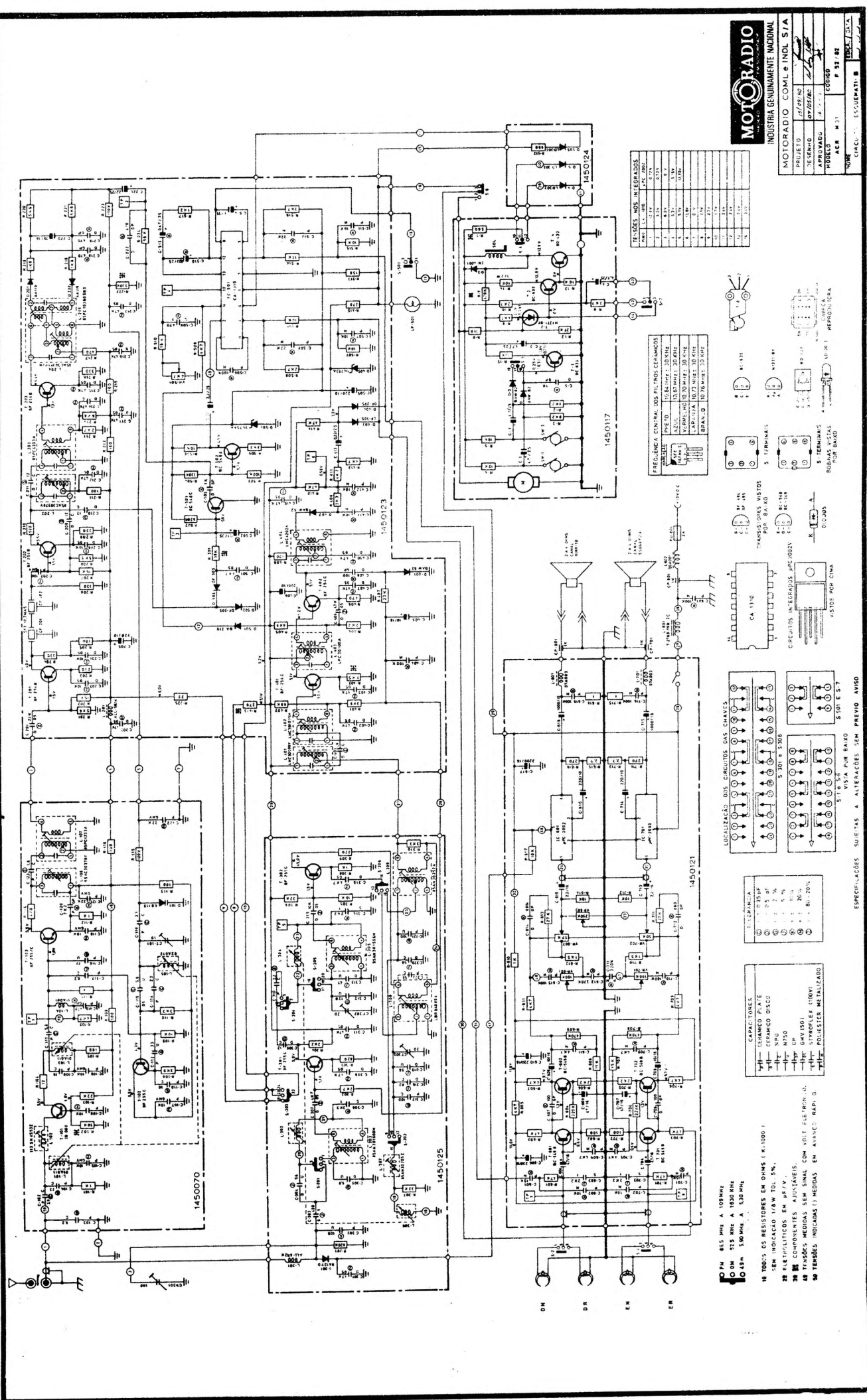
NOTE 1 Conduct measurements Under no signal conditions with a tester
 an internal resistance of 4KΩ/V and at the following range
 2.5V or greater 10V range
 0.5V or greater 10V range
 Below 0.5V 0.5V range
 Measurement Value may be different, if measured by wrong range

CLARION - MOD. PE-809-A-02

CIRCUIT DIAGRAM



MECCA - MOD. EL - 6861

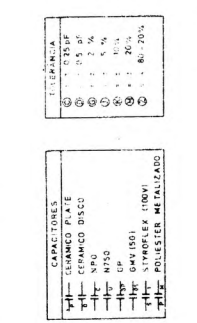
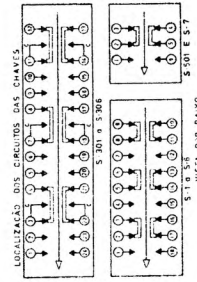
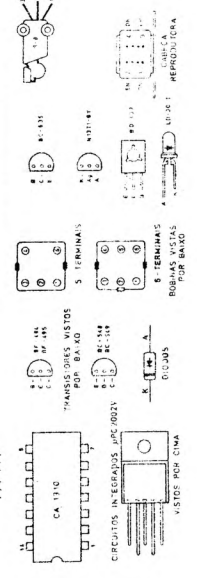


TENSÃO	NOS	INTEGRADOS
1	100V	250V
2	250V	500V
3	500V	1000V
4	1000V	2000V
5	2000V	4000V
6	4000V	8000V
7	8000V	16000V
8	16000V	32000V
9	32000V	64000V
10	64000V	128000V

FREQUENCIA	CENTRAL	DOS	FILTROS	DESEMPENHO
1	1000	2000	3000	4000
2	2000	4000	6000	8000
3	4000	8000	12000	16000
4	8000	16000	24000	32000
5	16000	32000	48000	64000
6	32000	64000	128000	160000
7	64000	128000	256000	320000
8	128000	256000	512000	640000
9	256000	512000	1024000	1280000
10	512000	1024000	2048000	2560000

MOTORADIO
INDUSTRIA GENUINAMENTE NACIONAL

PROJETO	1450070
DESENHO	1450125
APROVADO	1450123
TUBO	ACR M 31
FABRICAÇÃO	F 97/82



PM 815 MHz A 100MHz
DM 525 MHz A 1850 KHz
AM 550 MHz A 1.80 MHz

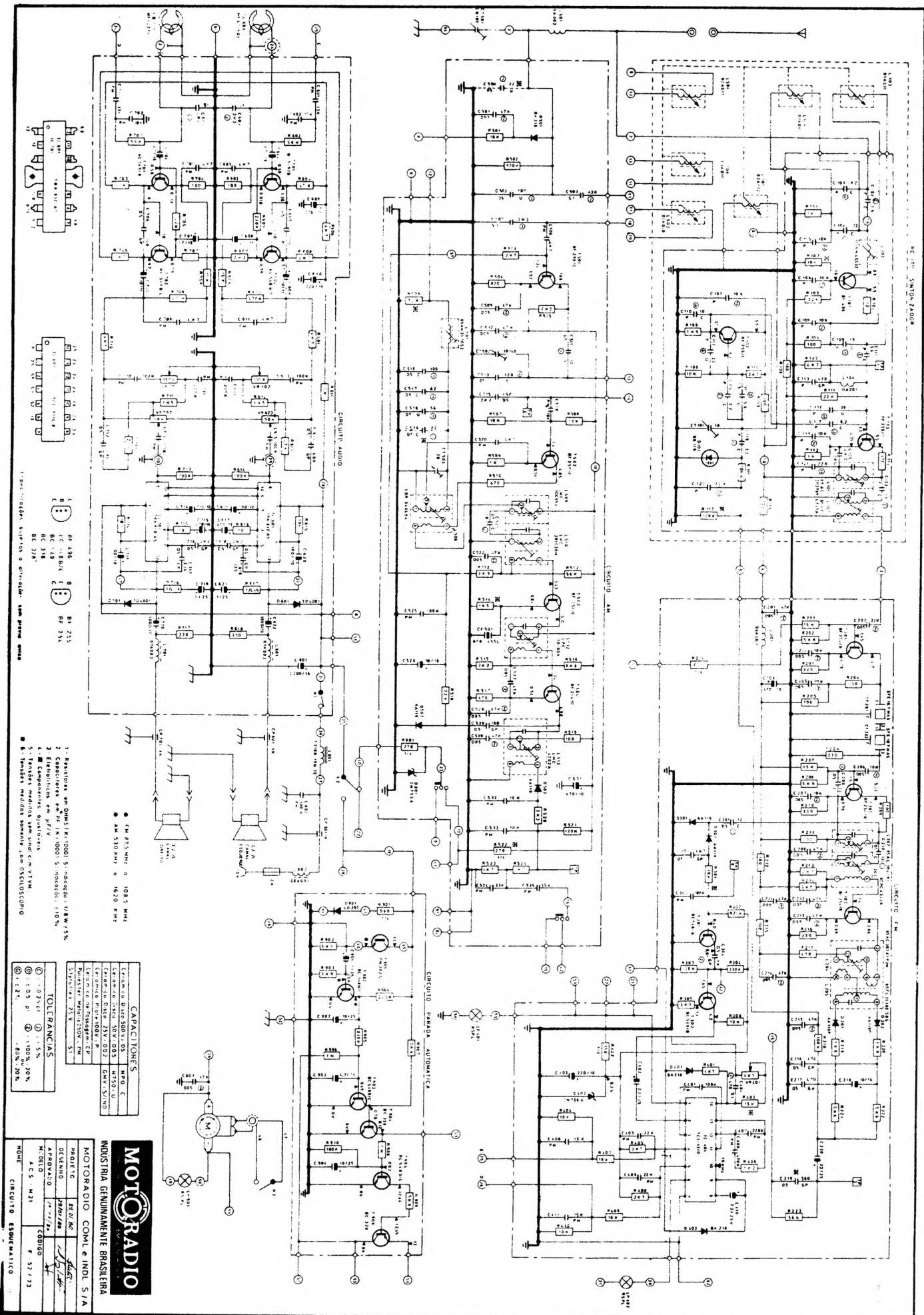
10 TODOS OS RESISTORES EM OHMS (K=1000)
20 SEM INDICAÇÃO 1/4W TOL 5%
30 ELETRÓLICOS EM µF/V
40 COMPONENTES AJUSTÁVEIS
50 TRANSISTORES SEM SINAL COM VOLT ELETRO. IN.
60 TENSÕES INDICADAS (1) MEDIDAS EM AVANÇO RAP. D.

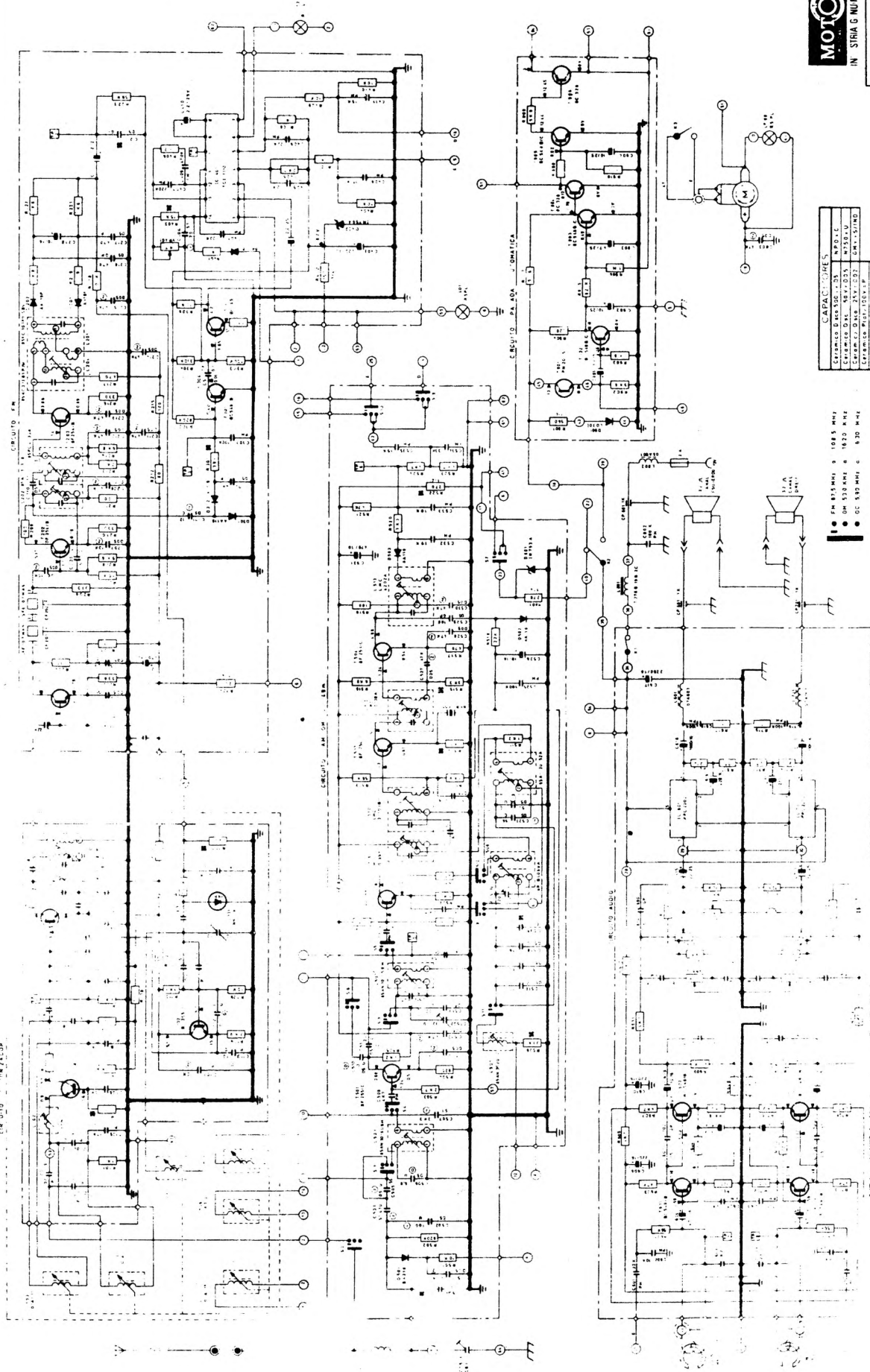
1 T-TELEFONIA
2 1000 500 250 100 50 25 10 5
3 1000 500 250 100 50 25 10 5
4 1000 500 250 100 50 25 10 5
5 1000 500 250 100 50 25 10 5
6 1000 500 250 100 50 25 10 5
7 1000 500 250 100 50 25 10 5
8 1000 500 250 100 50 25 10 5
9 1000 500 250 100 50 25 10 5
10 1000 500 250 100 50 25 10 5

1 CERAMIC PLATE
2 WAXED DISC
3 N750
4 EP
5 GAVIÃO
6 POLIESTER METALIZADO

AUTO RADIO E TOCA FITAS AUTO REVERSE - ACR - M 31

AUTO RADIO E TOCA FITAS - ACS - M 21 - STEREO





CAPACITORES

EXEMPLO 1	100 P.F.	50 V.D.C.
EXEMPLO 2	100 P.F.	50 V.D.C.
EXEMPLO 3	100 P.F.	50 V.D.C.
EXEMPLO 4	100 P.F.	50 V.D.C.
EXEMPLO 5	100 P.F.	50 V.D.C.
EXEMPLO 6	100 P.F.	50 V.D.C.
EXEMPLO 7	100 P.F.	50 V.D.C.
EXEMPLO 8	100 P.F.	50 V.D.C.
EXEMPLO 9	100 P.F.	50 V.D.C.
EXEMPLO 10	100 P.F.	50 V.D.C.

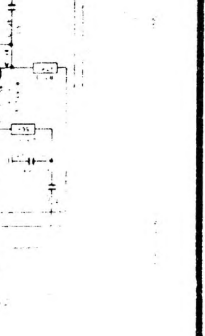
TOLEMAN AS

100 P.F.
 100 P.F.
 100 P.F.

- 1. Maximo em ondas curtas 1.600 a 17.000 KHz.
- 2. Capacidade em P.F. de 1000 a 100.000 P.F.
- 3. Exceção em P.F. de 1000 a 100.000 P.F.
- 4. Capacidade em P.F. de 1000 a 100.000 P.F.
- 5. Exceção em P.F. de 1000 a 100.000 P.F.
- 6. Exceção em P.F. de 1000 a 100.000 P.F.

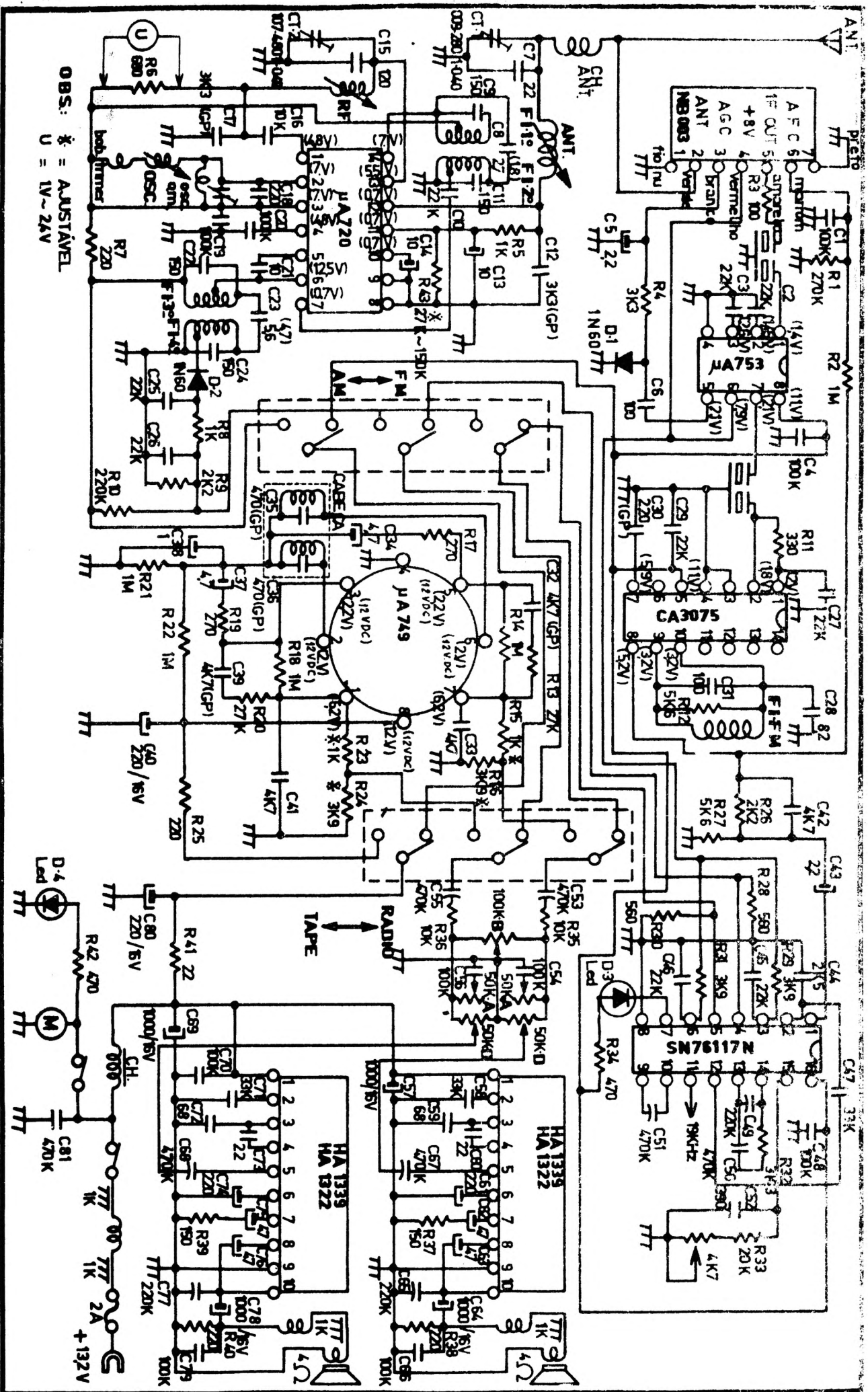
RESISTORES

100 OHMS	100 OHMS
100 OHMS	100 OHMS
100 OHMS	100 OHMS
100 OHMS	100 OHMS
100 OHMS	100 OHMS
100 OHMS	100 OHMS
100 OHMS	100 OHMS
100 OHMS	100 OHMS
100 OHMS	100 OHMS
100 OHMS	100 OHMS



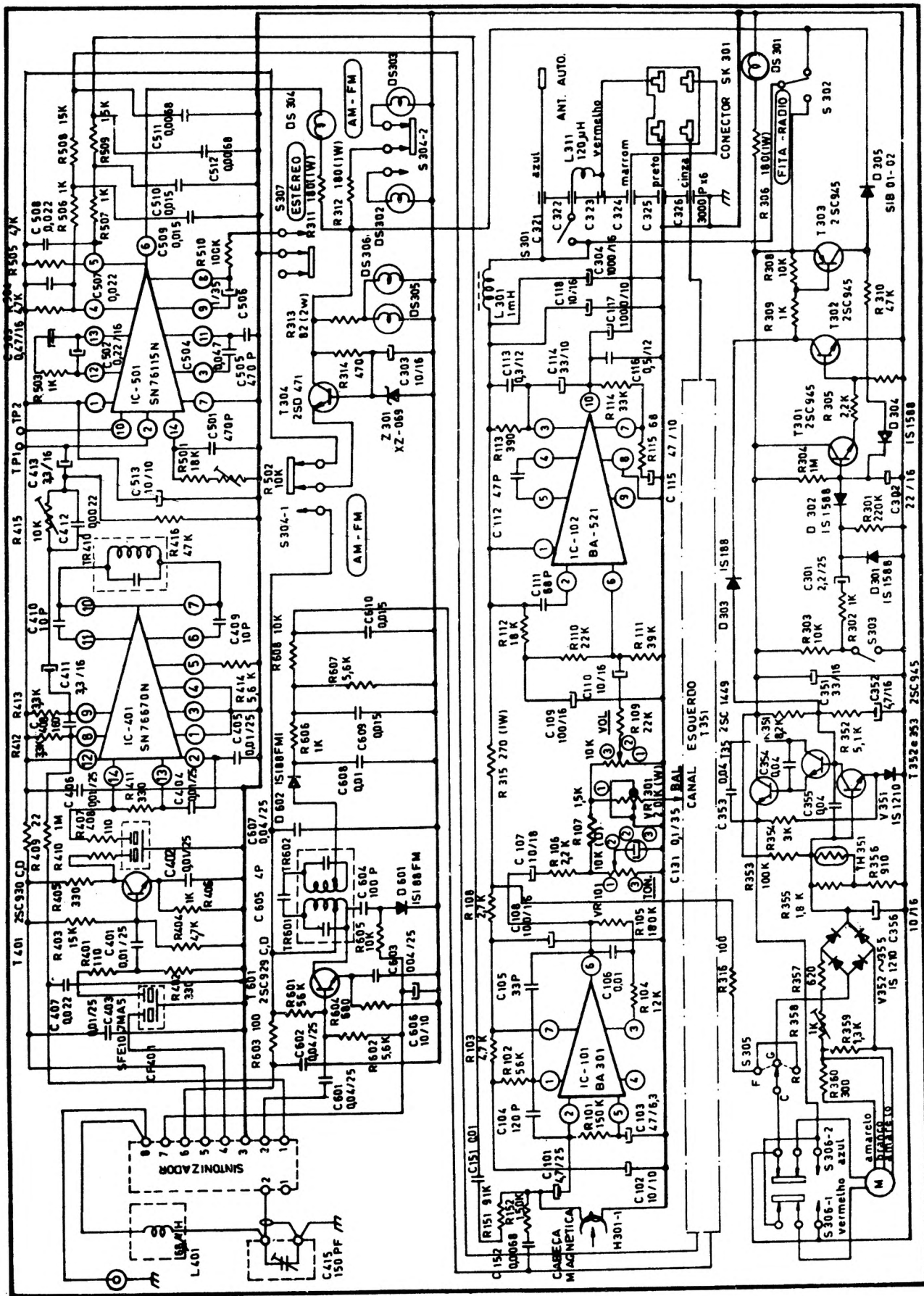
PROJETO	10/08/54
REVISAO	01/08/54
APR. A.C.D.	01/08/54
MODELO	10/08/54
A.S. M.A.	10/08/54
PROF. C.R.L.	10/08/54

AUTO RADIO E TOCA FITAS STEREO - ACS - M31/A

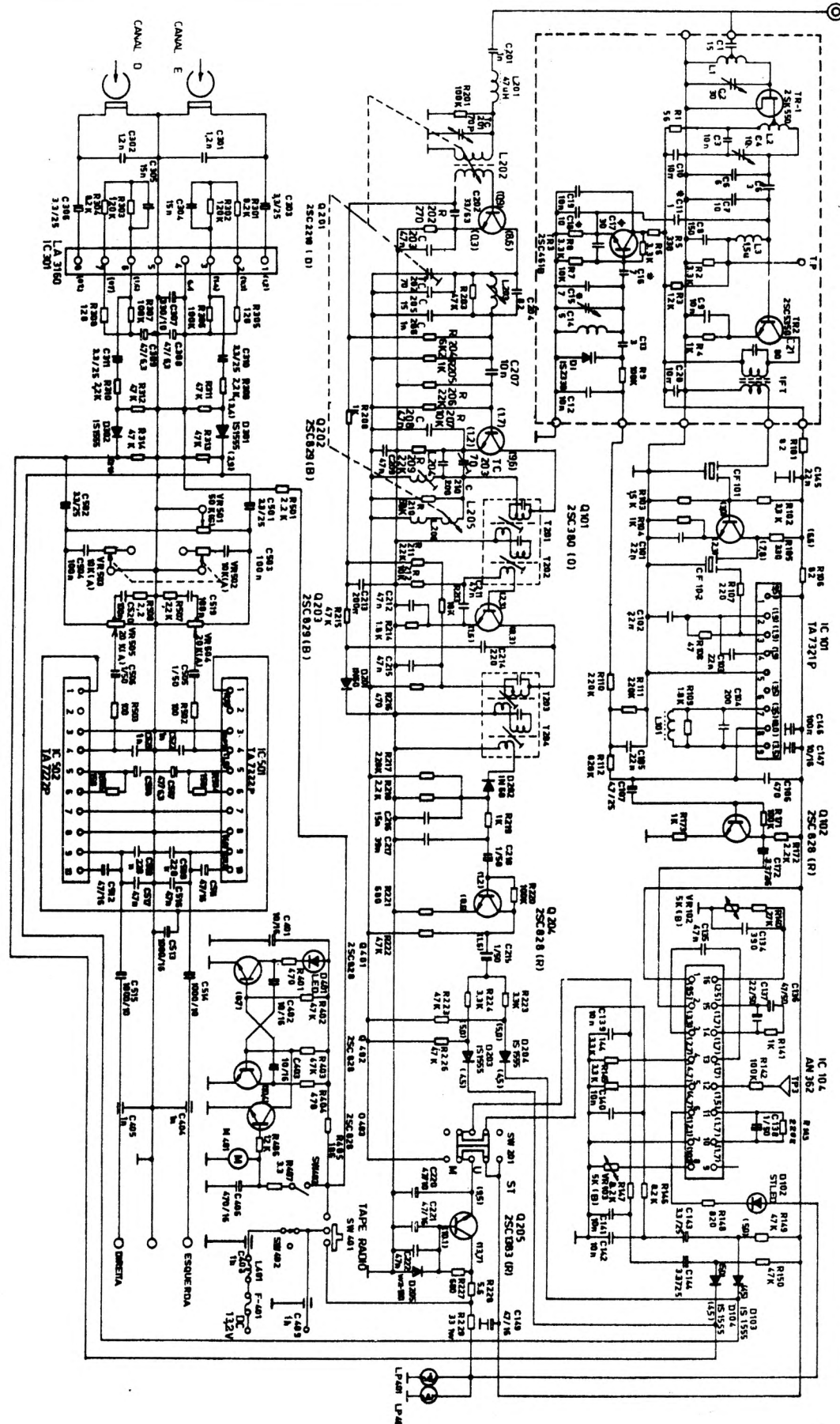


OBS: * = AJUSTAVEL
 U = 1V~24V

NISSEI - MOD. TF-201-B

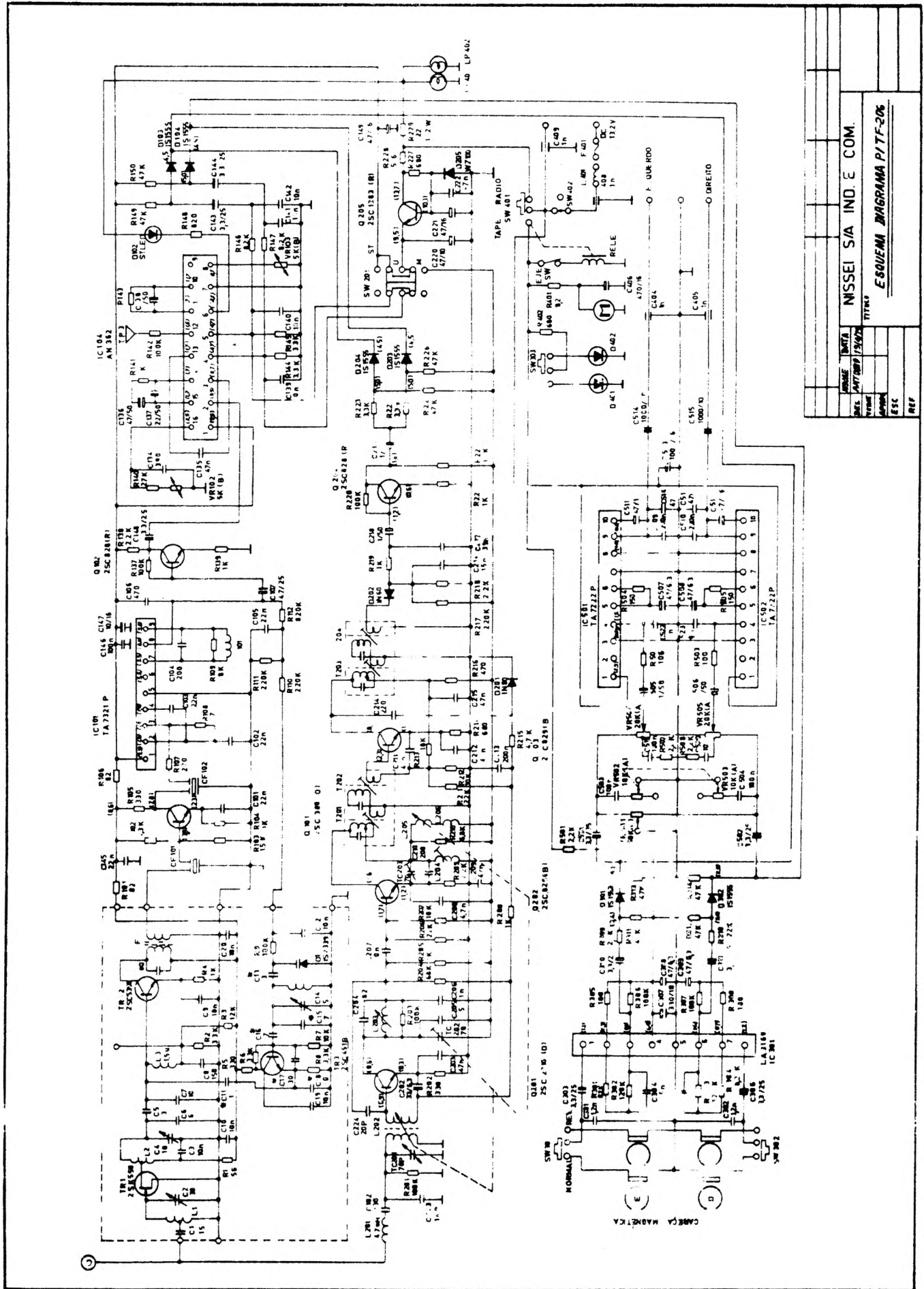


NISSEI - MOD. TF-202



MODEL	DATA
DESIGN	NISSEI S/A IND. E. COM.
TITULO	ESQUEMA DIAGRAMA PJ TF-205
FECH.	REF. TF-205

NISSEI - MOD. TF-205

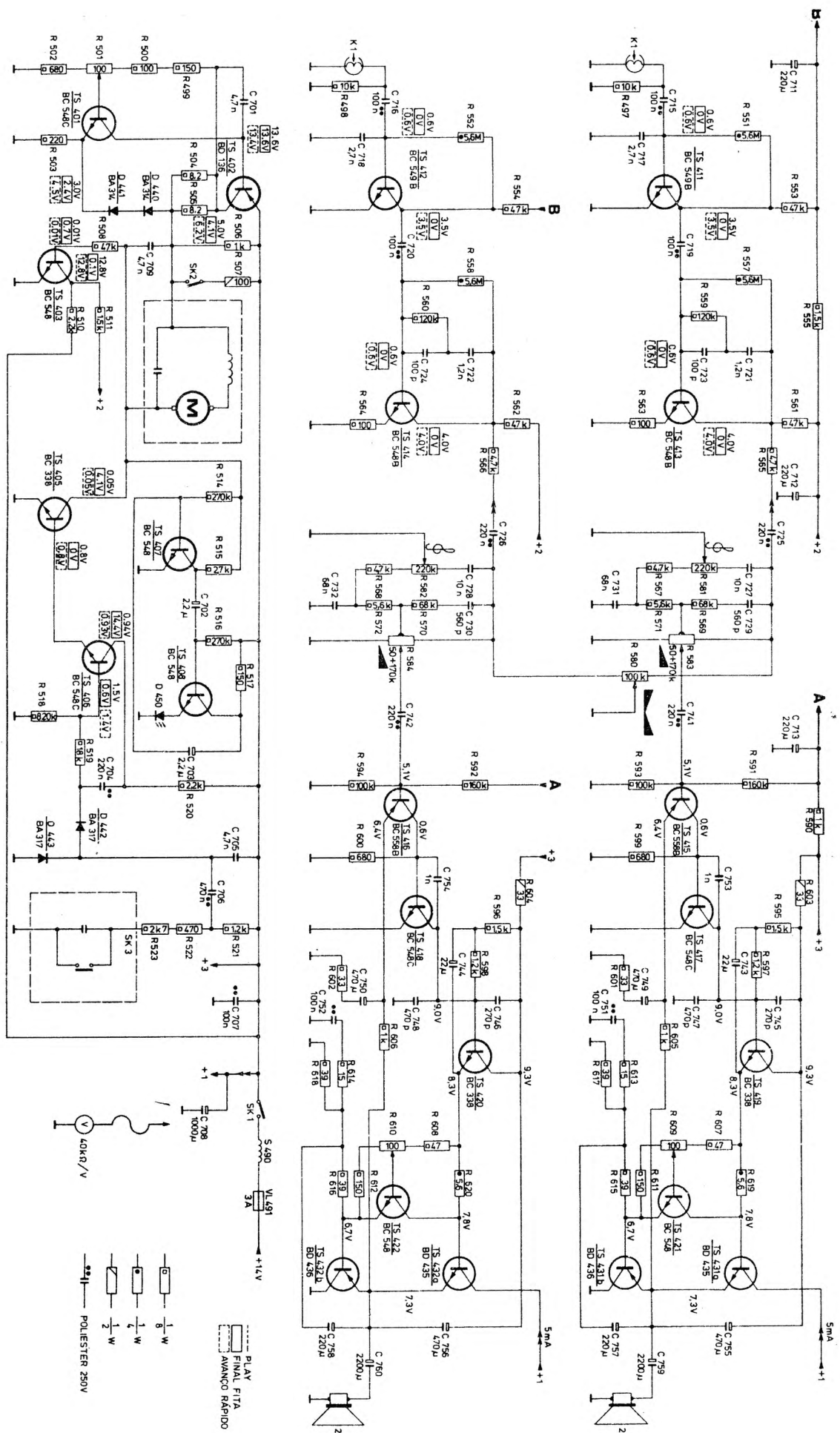


DESIGNER	DATE	REV.	QTY	UNIT
ESQUEMA	PROGRAMA	P/TF-206		
ESC	REF			

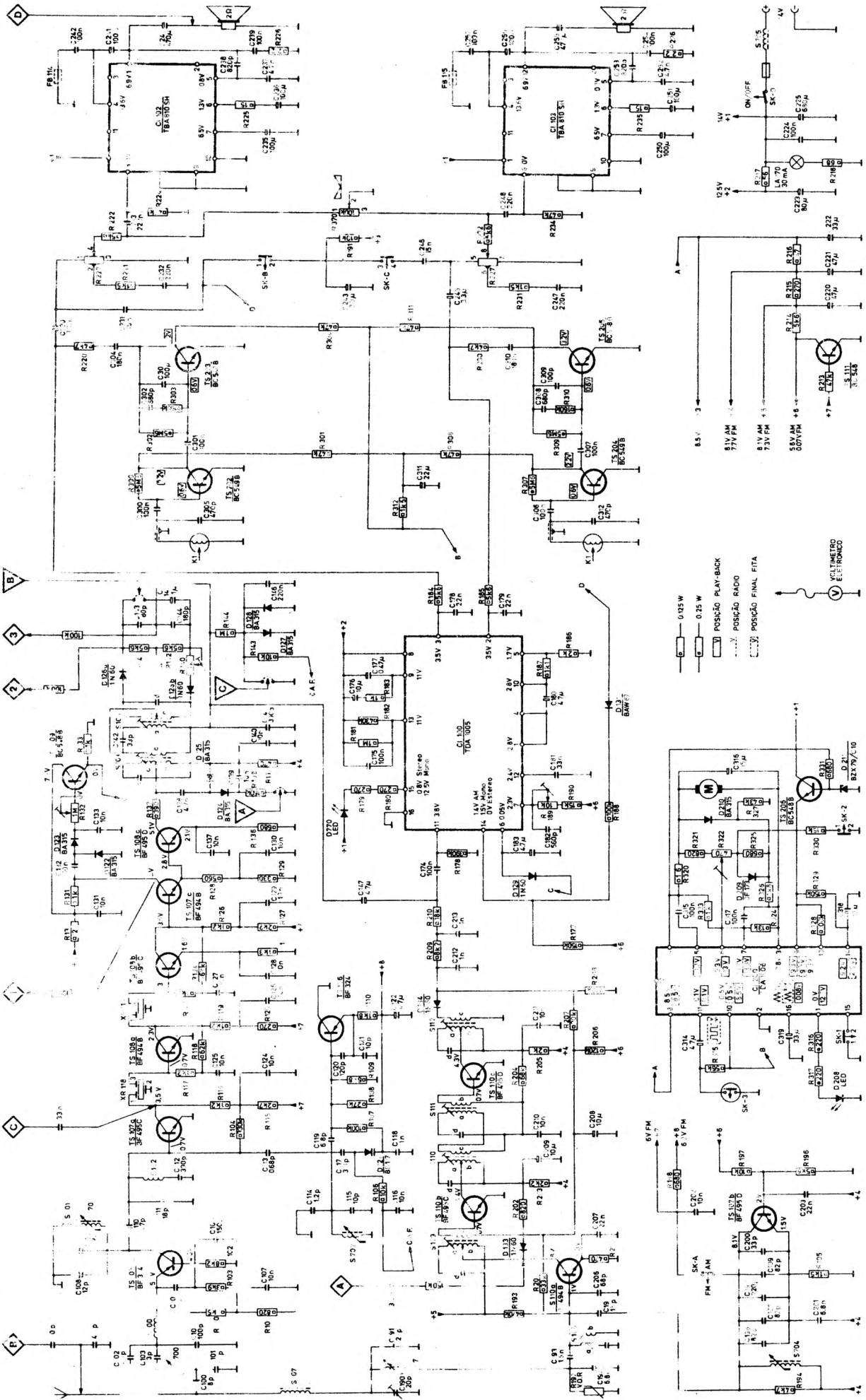
NISSEI S/A IND. E COM.




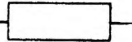

ESQUEMA PROGRAMAS P/TF-206

NISSEI - MOD. TF-206

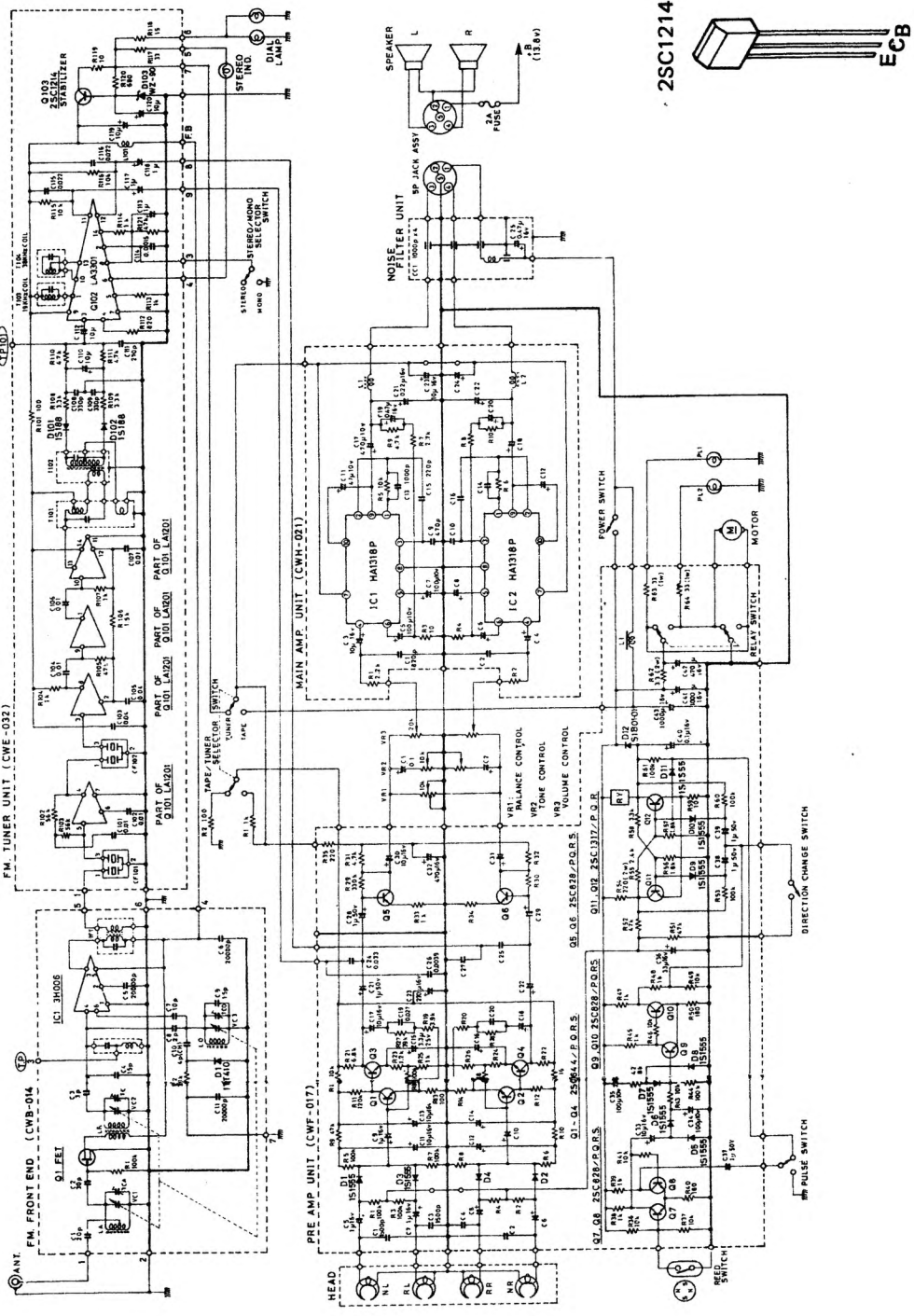
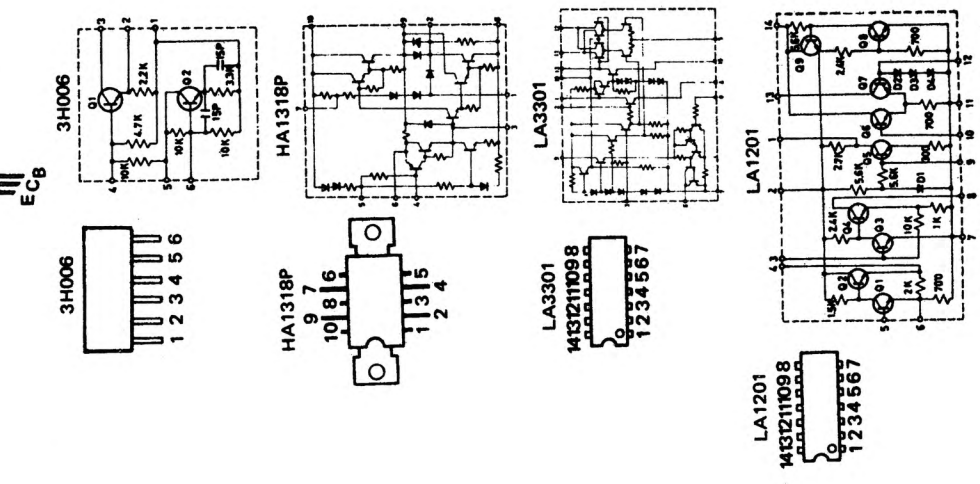
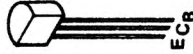


PHILIPS - 06 AC 060

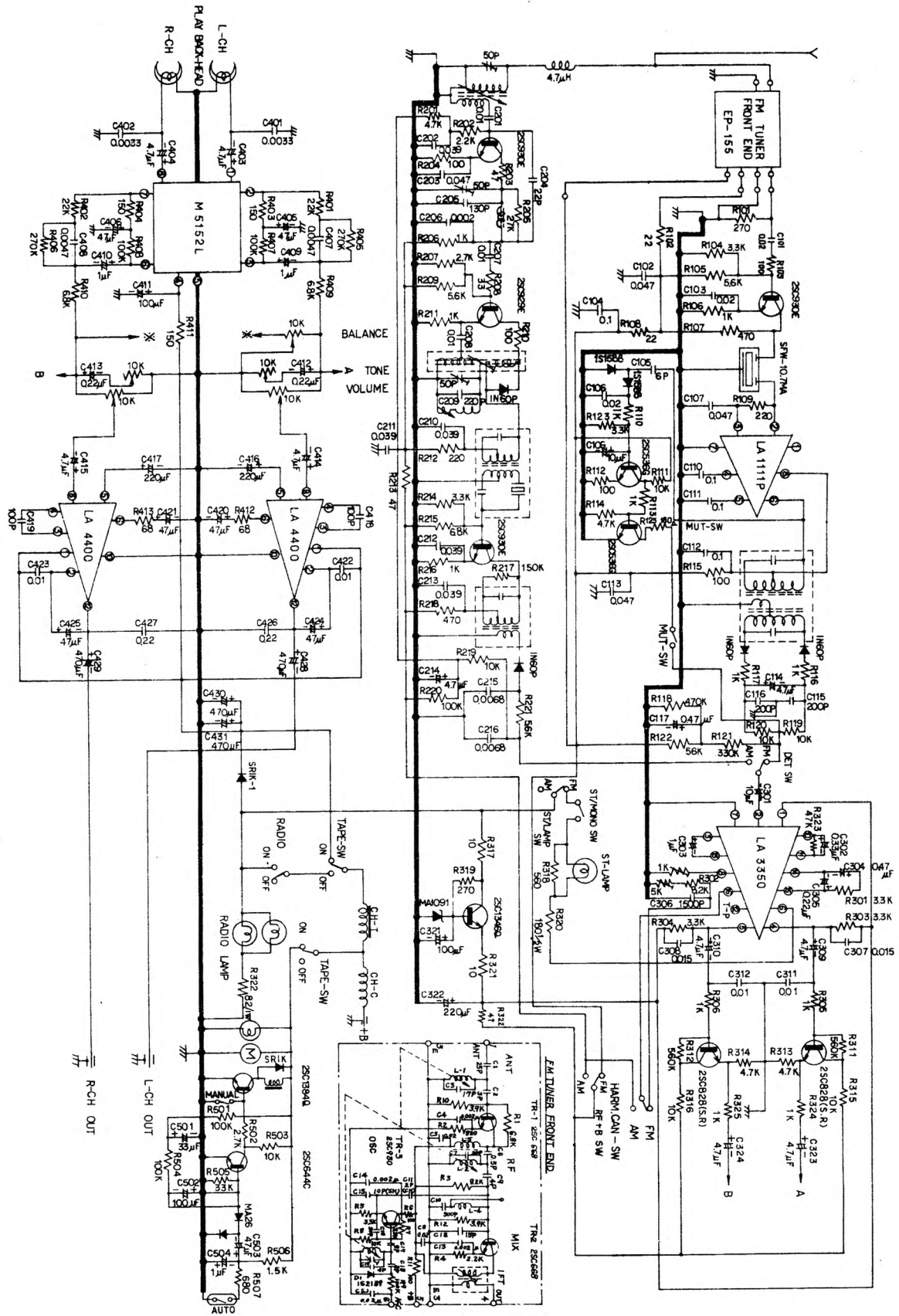


<p>– C.I. – </p> <p>CI 100 TDA 1005 CI 102 } TBA 810SH CI 103 } CI 200 TDA 1006</p>	<p>– S – </p> <p>S100 3106 108 21671 S101 3106 308 20541 S102 3106 108 21660 S103 3122 138 20211 S104 3106 108 23071 S107 3122 108 20150 S108 } 3106 108 22701 S111 } S109 } 3111 118 23531 S110 } S112 } 3106 108 22711 S700 } 3122 137 15421 S701 } S702 } 3122 137 15431 S703 } 3122 138 72311 S704 } 3122 138 72331</p>																																				
<p>– D – </p> <p>D 208 9332 659 50112 D 209 OF 173 4822 130 30301 D 770 9333 004 70112</p>	<p>– R – </p> <p>R132 1MΩ 2322 410 05014 R140 1KΩ 2322 410 05004 R189 10KΩ 2322 410 03307 R192 VDR 2322 565 90003 R227+SKD 17K log+5Ω 2322 391 90019 R322 470Ω 2322 410 05003 R370 100KΩ 2322 415 90003</p>																																				
<p>– Diversos –</p> <p>K1 (69) 3103 268 52921 M (64) 4822 361 70297 LA 170 12V/30 mA 9237 260 17122 XR 118 } 2422 549 03513 XR 119 } FB 114 } 4312 020 31061 FB 115 } Fusível 2406 086 00002 SK1 – SK2 } 3122 118 71245 SKA – SKB – SKC } SK3 4822 466 10242</p>	<p>– C – </p> <table border="0"> <tbody> <tr> <td>C122 4,7 μF 16V 2006 001 00085</td> <td>C235 } 100 μF 10V 2006 001 00132</td> </tr> <tr> <td>C145 1,1 μF 40V 2006 001 00043</td> <td>C236 } 470 μF 10V 2006 005 00008</td> </tr> <tr> <td>C147 4,7 μF 16V 2006 001 00085</td> <td>C240 } 100 μF 10V 2006 001 00132</td> </tr> <tr> <td>C176 10 μF 3V tantal. 2012 198 01109</td> <td>C241 } 3,3 μF 10V tantal. 2012 198 04338</td> </tr> <tr> <td>C177 0,47 μF 63V 2006 001 00146</td> <td>C243 } 100 μF 10V 2006 001 00132</td> </tr> <tr> <td>C180 4,7 μF 16V 2006 001 00085</td> <td>C245 } 470 μF 10V 2006 005 00008</td> </tr> <tr> <td>C182 560 pF 64V styrof. 2006 301 00165</td> <td>C250 } 100 μF 10V 2006 001 00132</td> </tr> <tr> <td>C183 4,7 μF 16V 2006 001 00085</td> <td>C251 } 100 μF 10V 2006 001 00132</td> </tr> <tr> <td>C190 120 pF trimmer 2222 808 74121</td> <td>C255 } 470 μF 10V 2006 005 00008</td> </tr> <tr> <td>C198 220pF styrof. 2006 301 00051</td> <td>C256 } 100 μF 10V 2006 001 00132</td> </tr> <tr> <td>C208 } 10 μF 10V 2006 001 00144</td> <td>C303 } 100pF 5% 63 styrof. 2006 301 00128</td> </tr> <tr> <td>C209 } 47 μF 10V 2006 001 00129</td> <td>C309 } 22 μF 10V 2006 001 00125</td> </tr> <tr> <td>C220 } 33 μF 16V 2006 001 00122</td> <td>C311 } 4,7 μF 16V 2006 001 00085</td> </tr> <tr> <td>C221 } 80 μF 16V 2006 001 00035</td> <td>C314 } 15 μF 16V 2006 001 00045</td> </tr> <tr> <td>C222 } 680 μF 16V 2222 017 55681</td> <td>C316 } 33 μF 16V 2006 001 00122</td> </tr> <tr> <td>C223 } 3,3 μF 10V tantal. 2012 198 04338</td> <td>C318 } 33 μF 16V 2006 001 00122</td> </tr> <tr> <td>C225 } 3,3 μF 10V tantal. 2012 198 04338</td> <td>C319 } 33 μF 16V 2006 001 00122</td> </tr> <tr> <td>C230 } 3,3 μF 10V tantal. 2012 198 04338</td> <td></td> </tr> </tbody> </table>	C122 4,7 μF 16V 2006 001 00085	C235 } 100 μF 10V 2006 001 00132	C145 1,1 μF 40V 2006 001 00043	C236 } 470 μF 10V 2006 005 00008	C147 4,7 μF 16V 2006 001 00085	C240 } 100 μF 10V 2006 001 00132	C176 10 μF 3V tantal. 2012 198 01109	C241 } 3,3 μF 10V tantal. 2012 198 04338	C177 0,47 μF 63V 2006 001 00146	C243 } 100 μF 10V 2006 001 00132	C180 4,7 μF 16V 2006 001 00085	C245 } 470 μF 10V 2006 005 00008	C182 560 pF 64V styrof. 2006 301 00165	C250 } 100 μF 10V 2006 001 00132	C183 4,7 μF 16V 2006 001 00085	C251 } 100 μF 10V 2006 001 00132	C190 120 pF trimmer 2222 808 74121	C255 } 470 μF 10V 2006 005 00008	C198 220pF styrof. 2006 301 00051	C256 } 100 μF 10V 2006 001 00132	C208 } 10 μF 10V 2006 001 00144	C303 } 100pF 5% 63 styrof. 2006 301 00128	C209 } 47 μF 10V 2006 001 00129	C309 } 22 μF 10V 2006 001 00125	C220 } 33 μF 16V 2006 001 00122	C311 } 4,7 μF 16V 2006 001 00085	C221 } 80 μF 16V 2006 001 00035	C314 } 15 μF 16V 2006 001 00045	C222 } 680 μF 16V 2222 017 55681	C316 } 33 μF 16V 2006 001 00122	C223 } 3,3 μF 10V tantal. 2012 198 04338	C318 } 33 μF 16V 2006 001 00122	C225 } 3,3 μF 10V tantal. 2012 198 04338	C319 } 33 μF 16V 2006 001 00122	C230 } 3,3 μF 10V tantal. 2012 198 04338	
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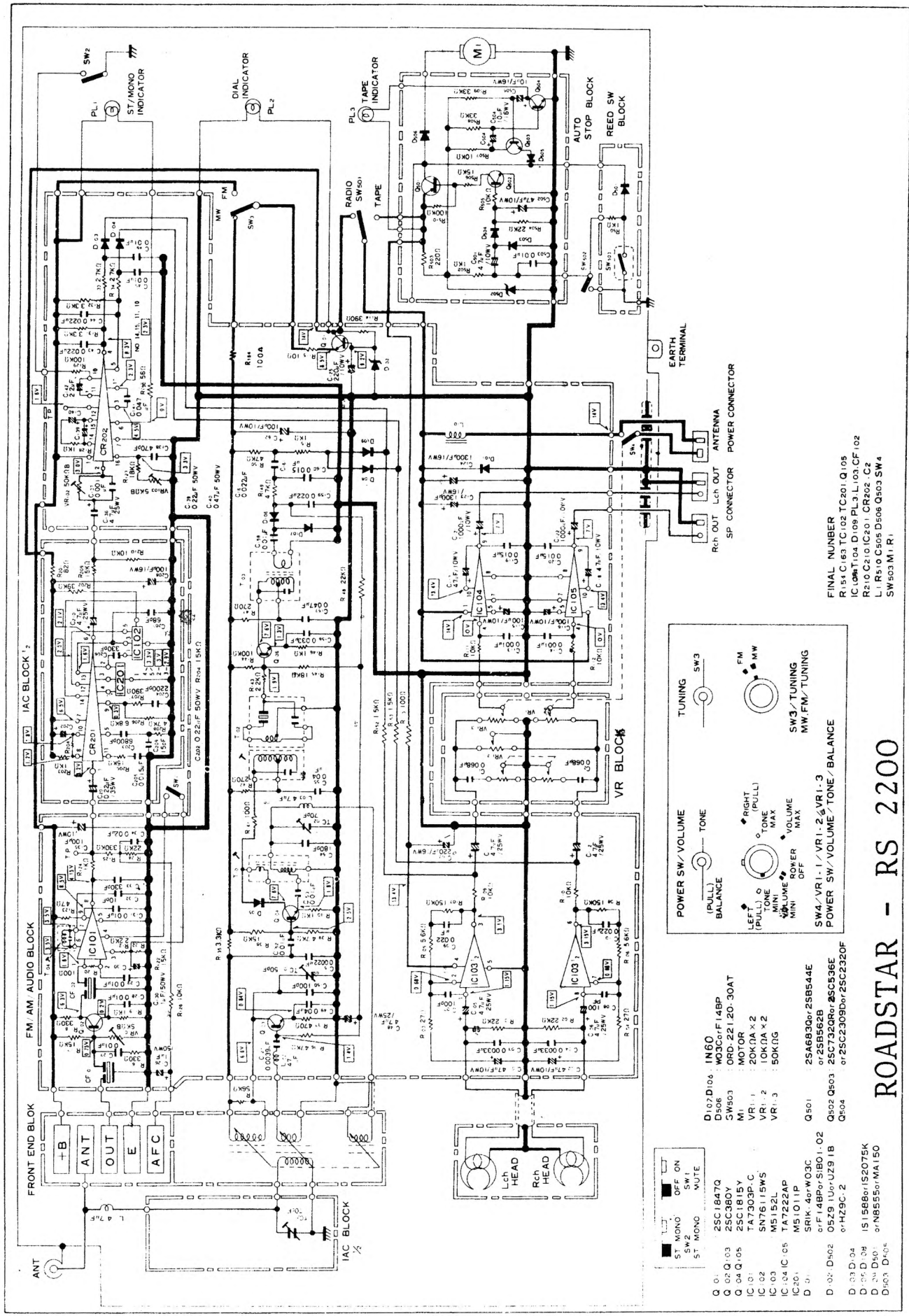
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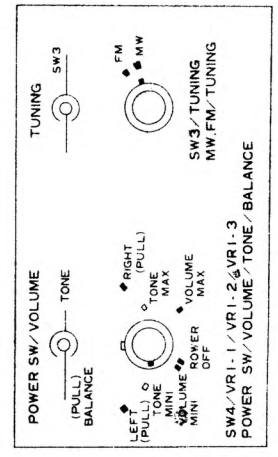
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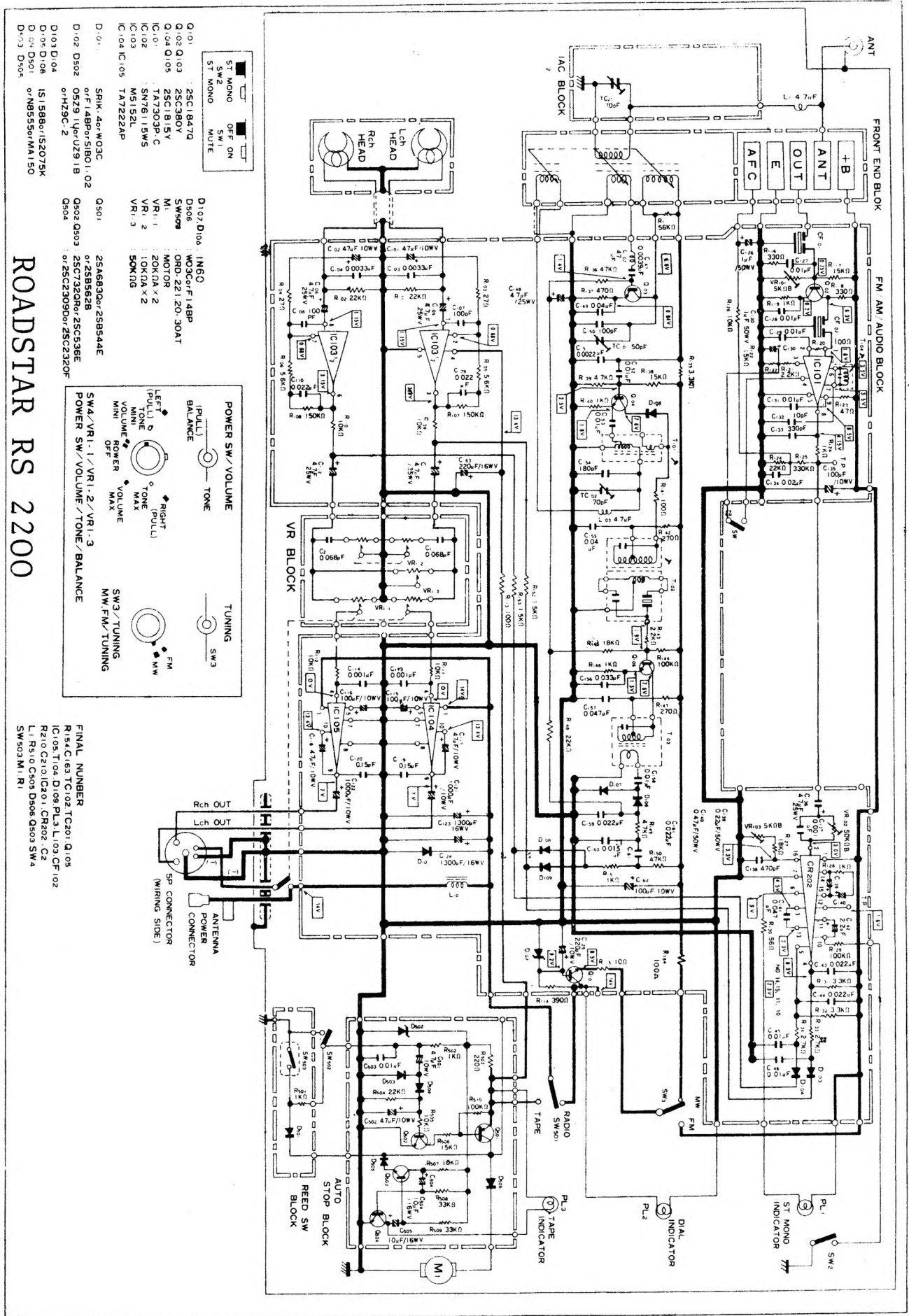


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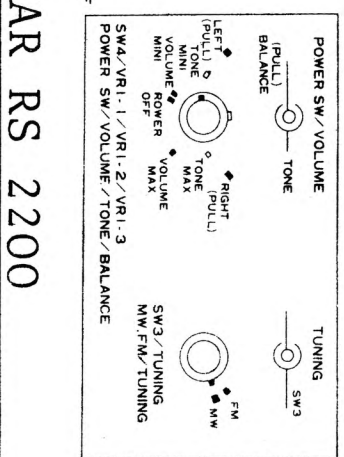
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- IC102 SN76115WS
- IC103 M5152L
- IC104 IC08 TA7222AP
- IC201 M51011P
- D 01 SRIK-40rW03C
- D 02 D102 05Z9 1U0r-UZ9 1B
- D 03 D 04 1S15860r1S2075K
- D 05 D 06 0rNB5550rMA150
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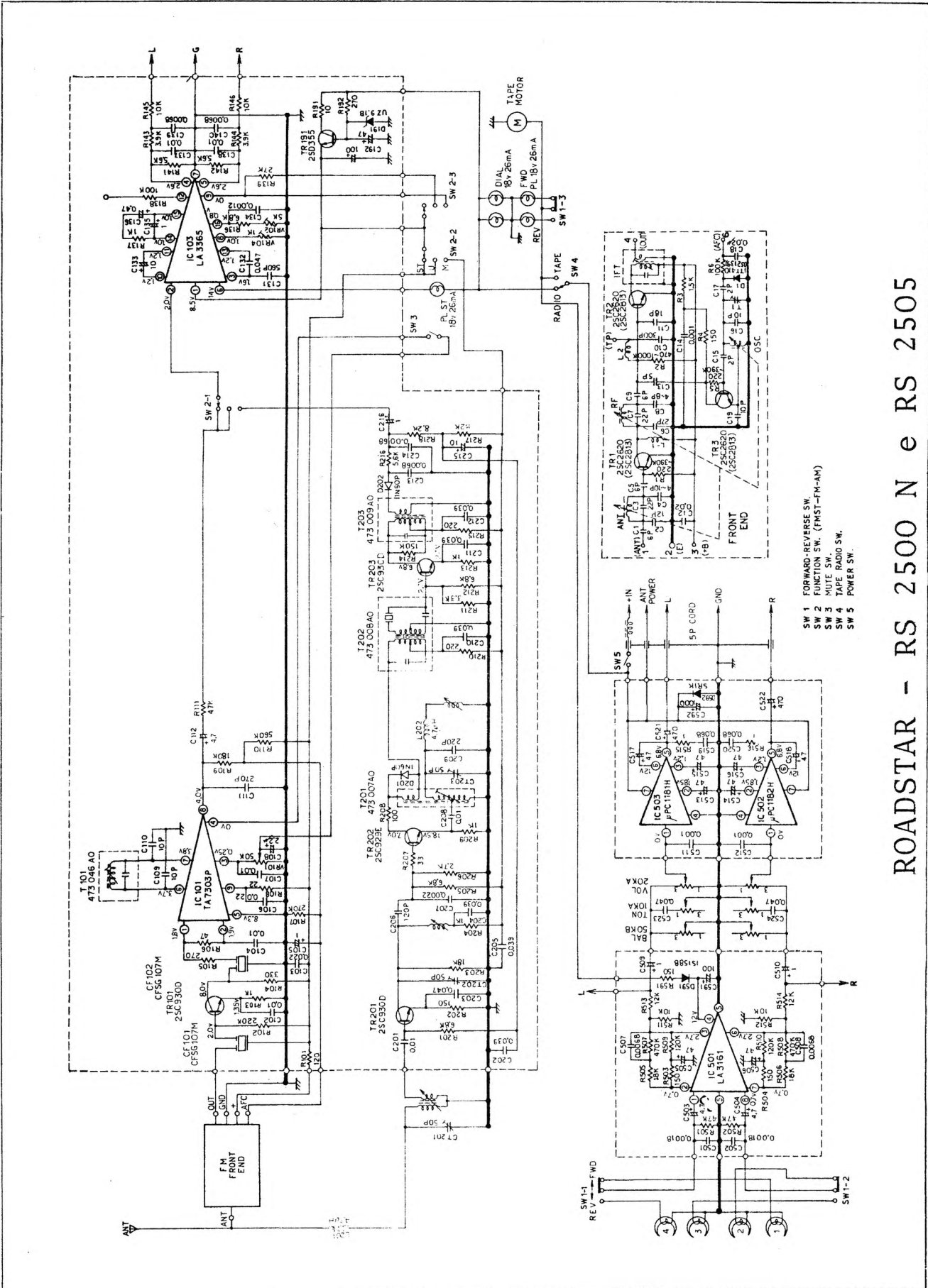
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 IC103 MS152L
 IC104 IC105 TA7222AP
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 D103 D502 0529 149 UZ9 1B
 D104 D101 D104 of HZ9C.2
 D105 D106 IS158801S2075K
 D106 D107 of NB5501MAI50
 D107 D504

- D107 D106 IN6G
 W03C of F14BP
 SWS508 ORO.221.20.30AT
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 VR1.1 20KΩ X 2
 VR1.2 10KΩ X 2
 VR1.3 50KΩ G
- Q501 25A6830G/25B544E
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 Q502 Q503 25C732CR/25C536E
 of HZ9C.2
 Q504 of 25C2309D/25C2320F



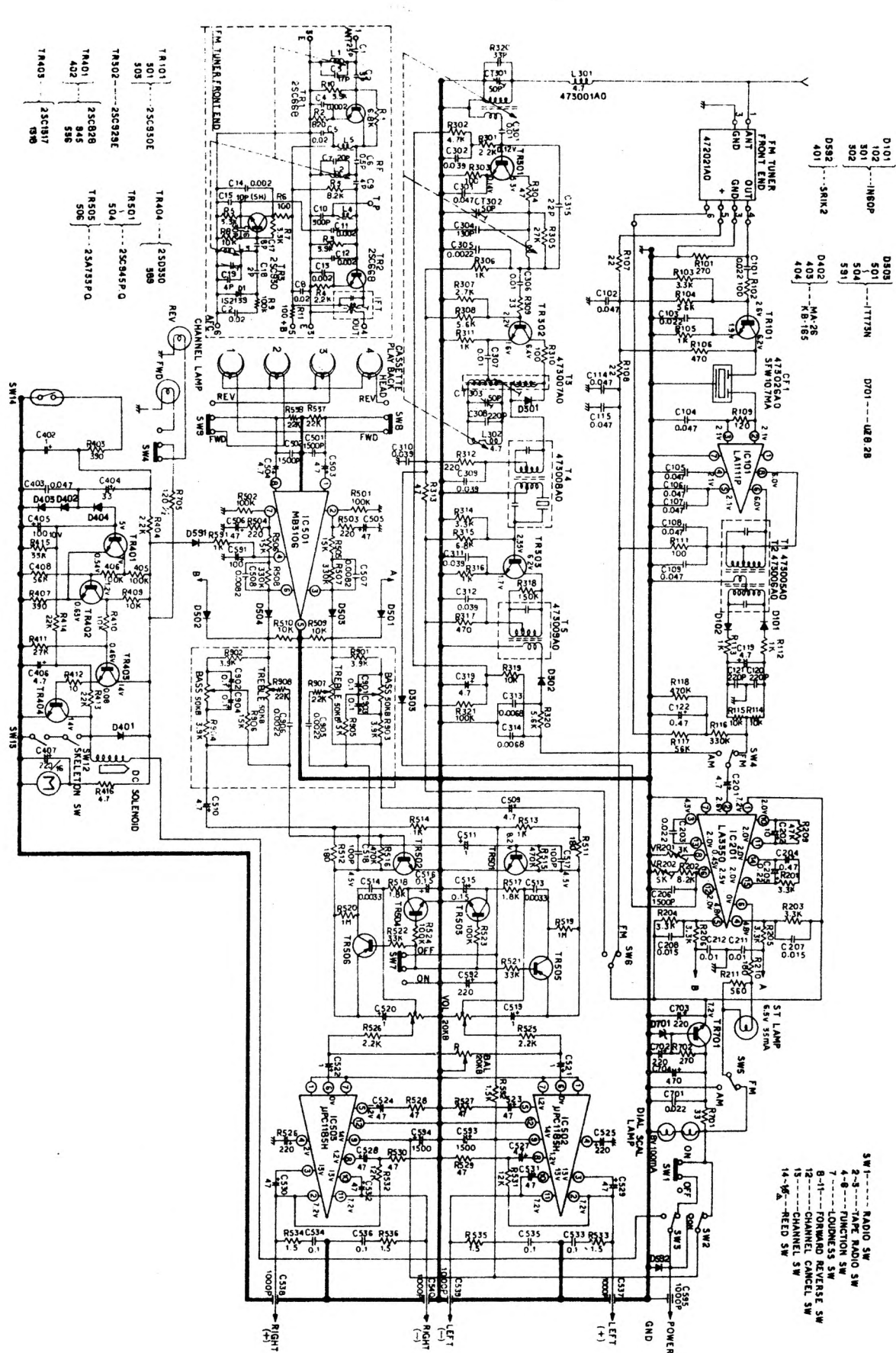
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 SW503 M1 R1

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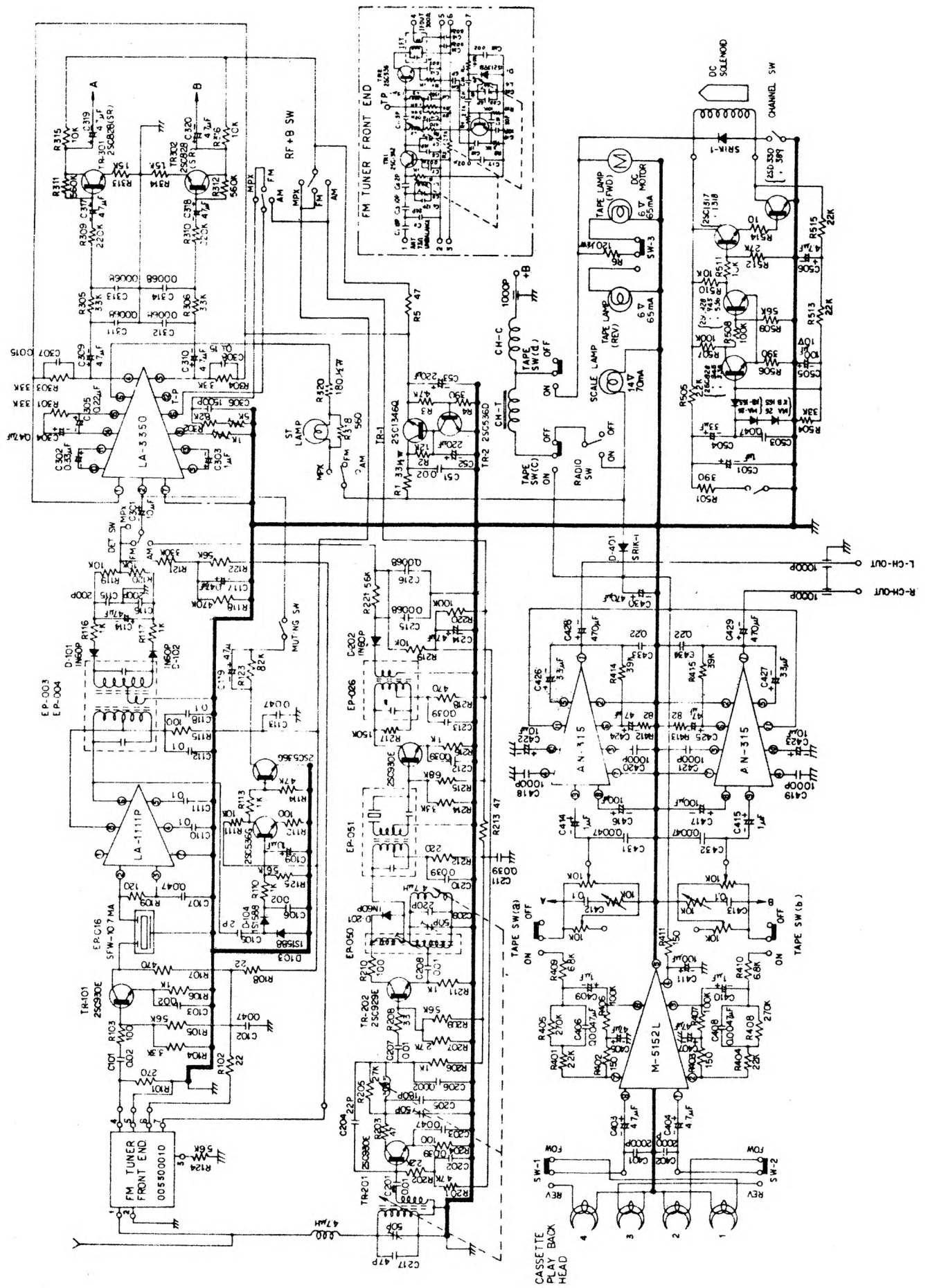


- SW 1 FORWARD-REVERSE SW.
- SW 2 FUNCTION SW. (FMST-FM-AM)
- SW 3 MUTE SW.
- SW 4 TAPE RADIO SW.
- SW 5 POWER SW.

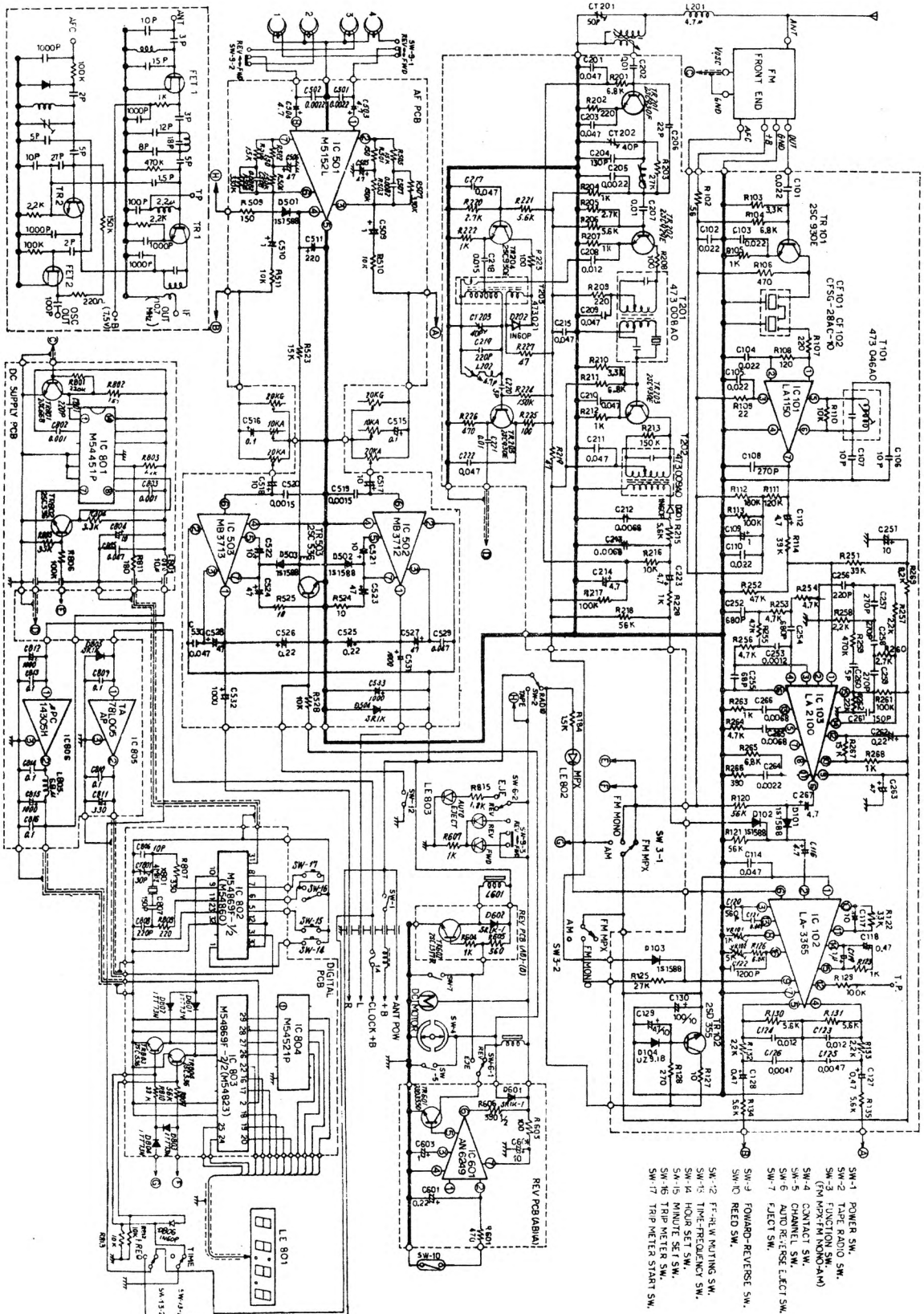
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ROADSTAR - RS 2600 HP

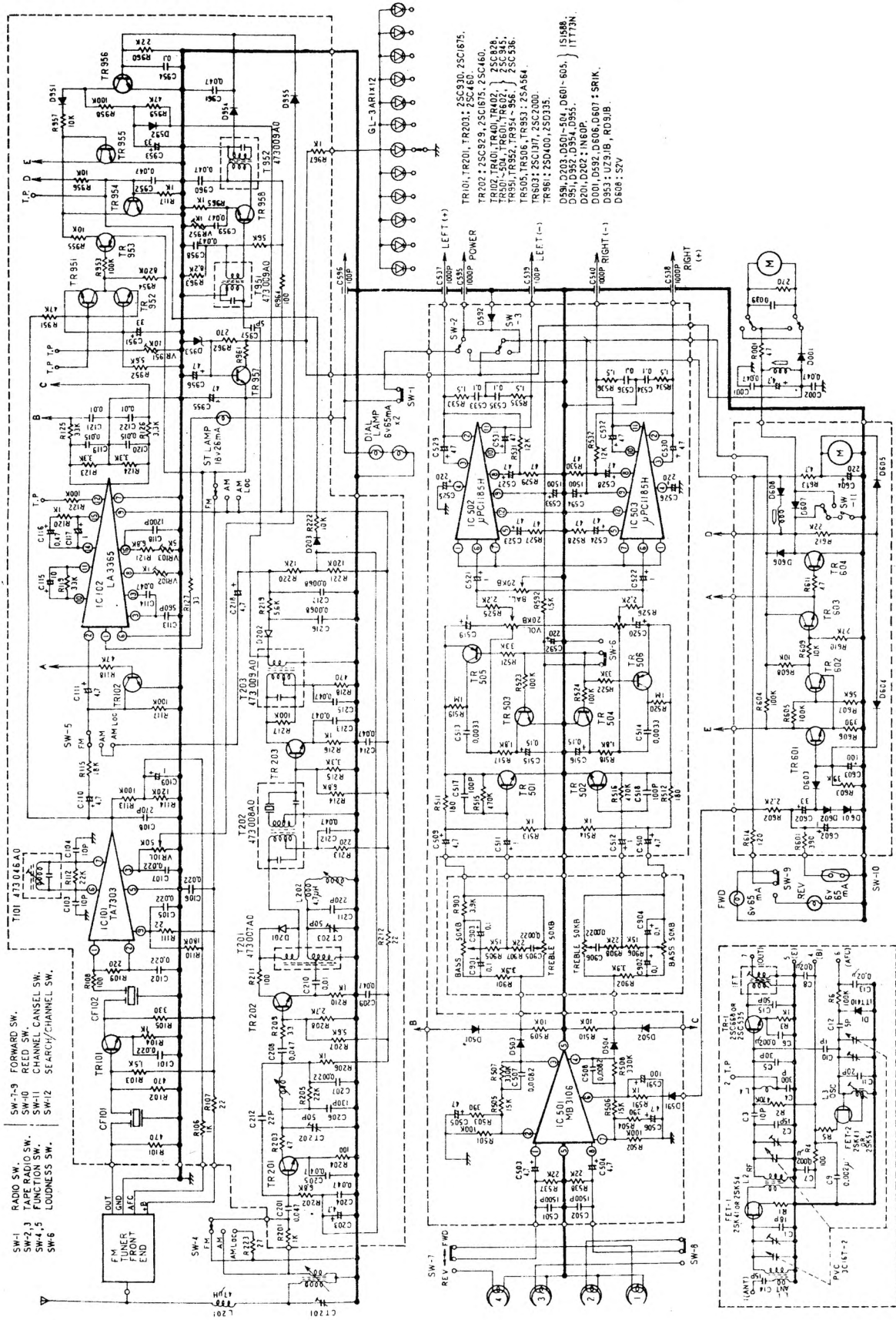


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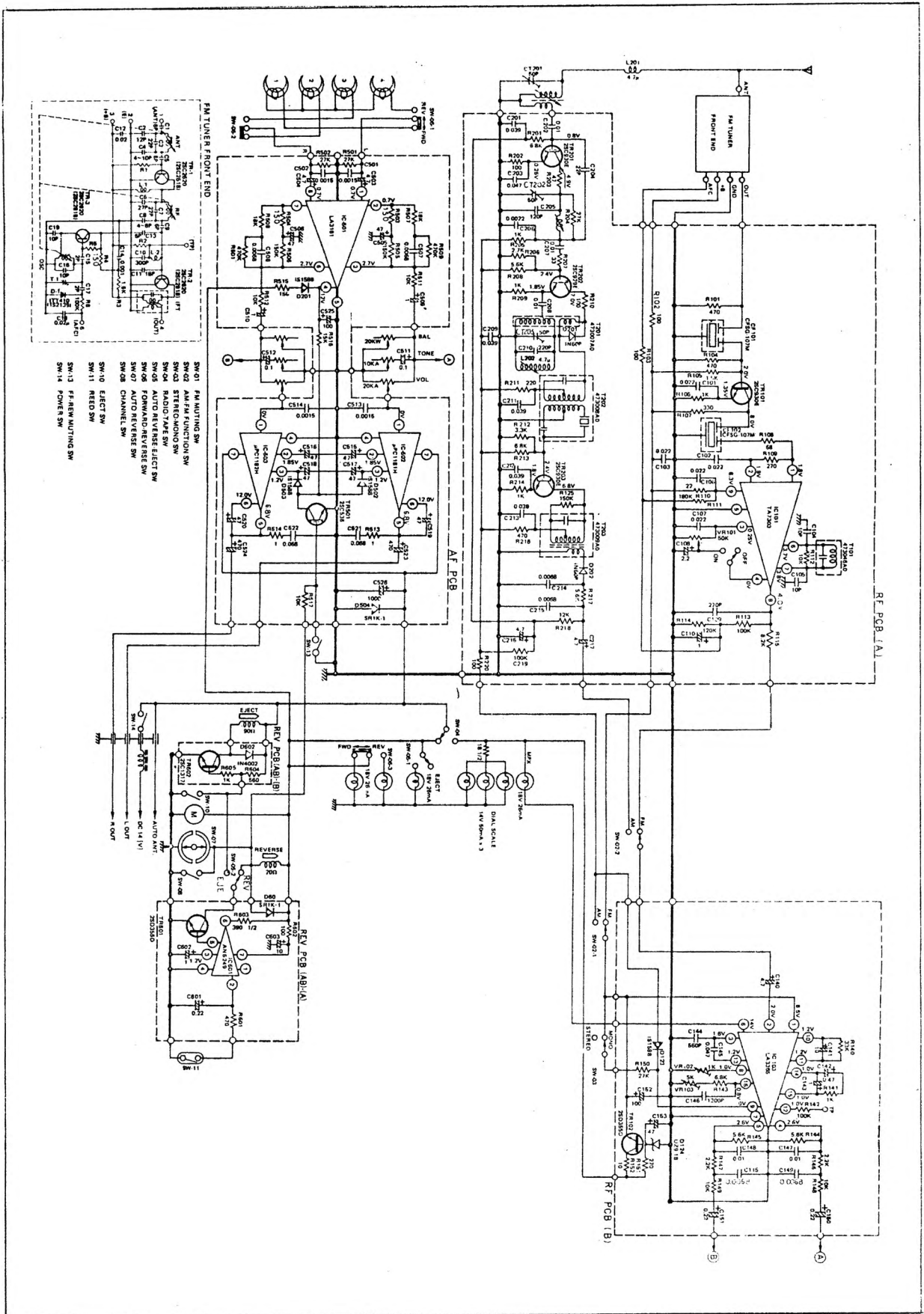


- SW-1 POWER SW.
- SW-2 TUNE RADIO SW.
- SW-3 FUNCTION SW. (SW. 3A FM, SW. 3B AM)
- SW-4 CHANNEL SW.
- SW-5 FORWARD-REVERSE EJECT SW.
- SW-6 EJECT SW.
- SW-7 FORWARD-REVERSE SW.
- SW-8 REED SW.
- SW-9 FF-FREW NOTINGS SW.
- SW-10 TIME-FREQUENCY SW.
- SW-11 HOUR SET SW.
- SW-12 MINUTE SET SW.
- SW-13 TRIP METER SW.
- SW-14 TRIP METER START SW.

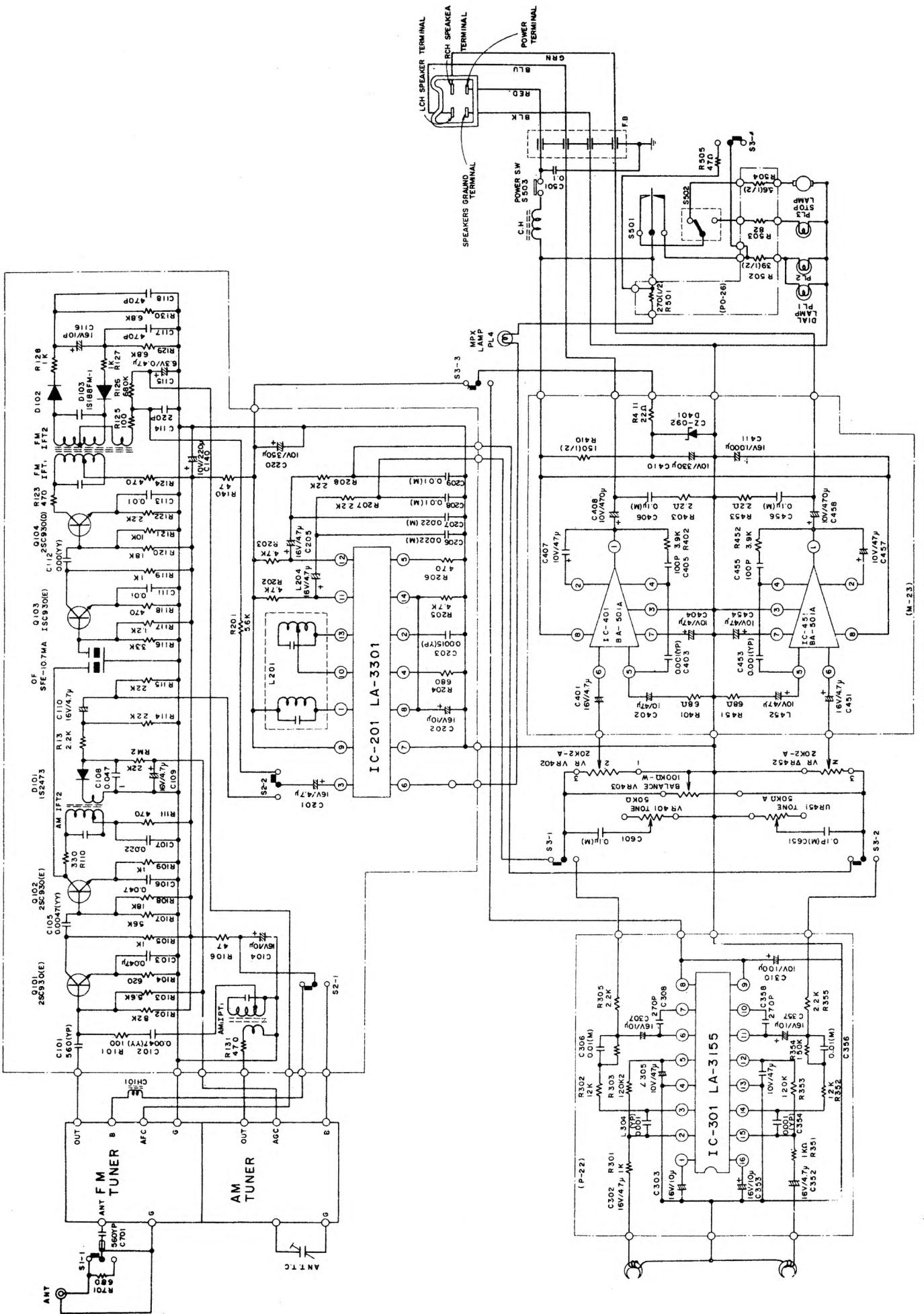
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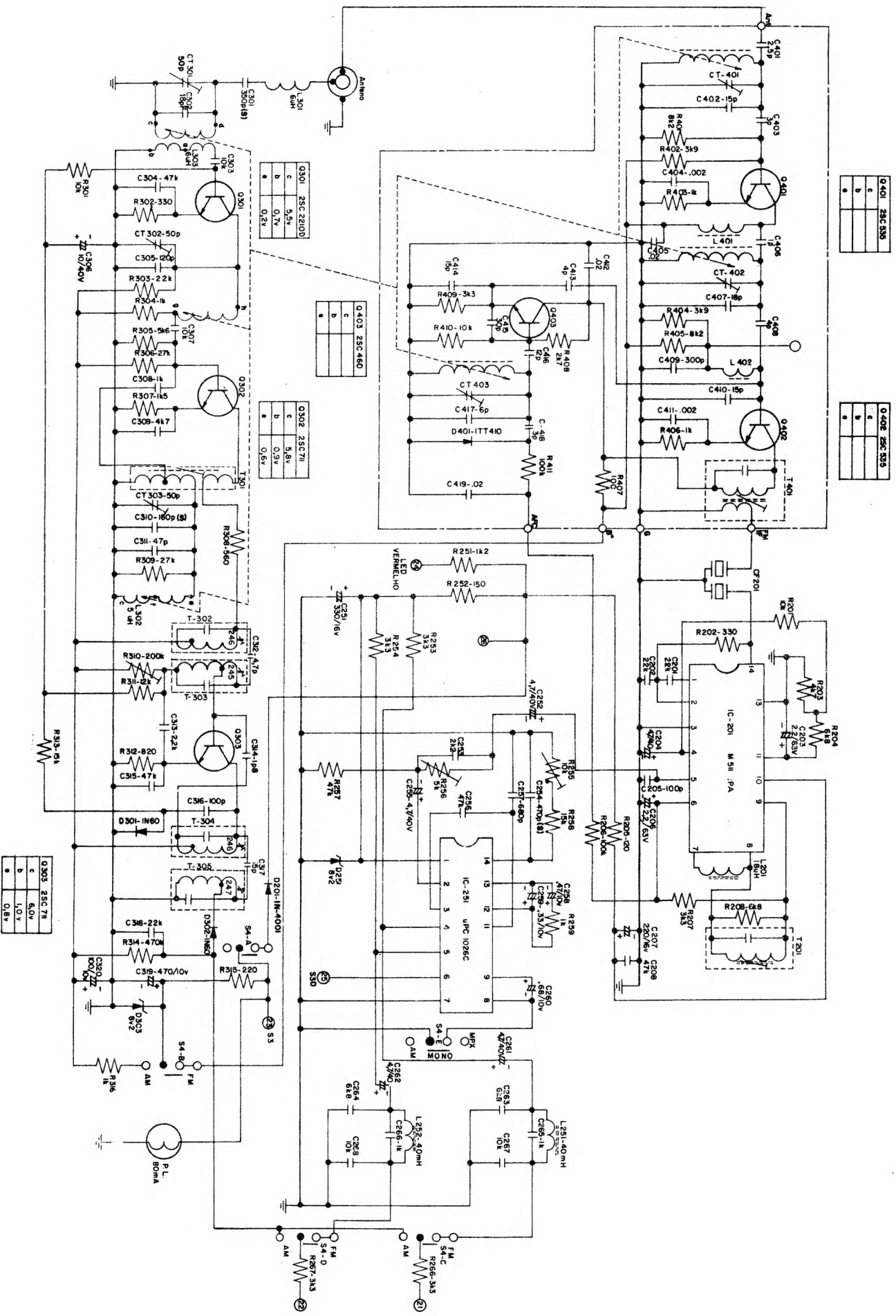
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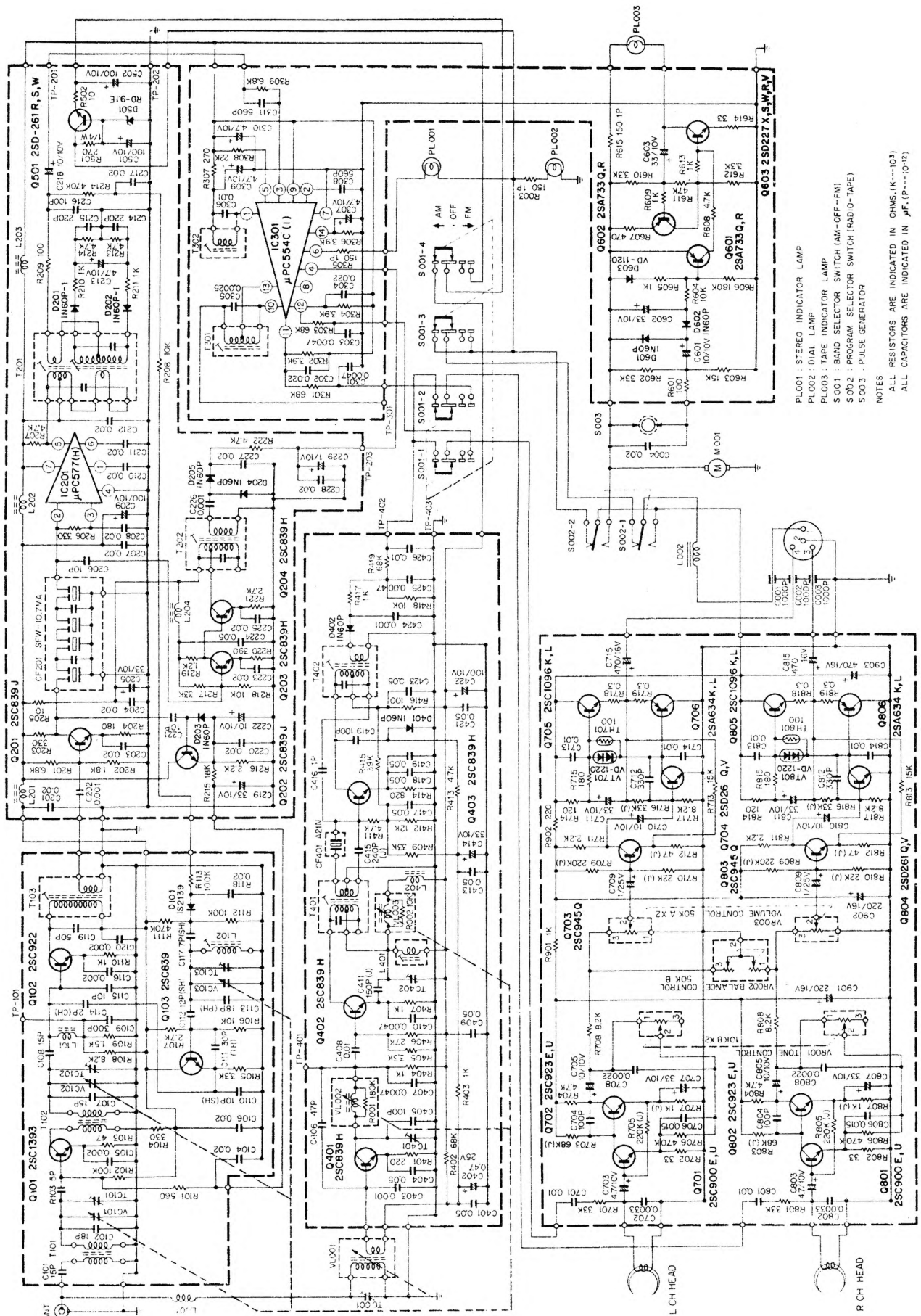
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SANKEI - MOD. TCE - 222



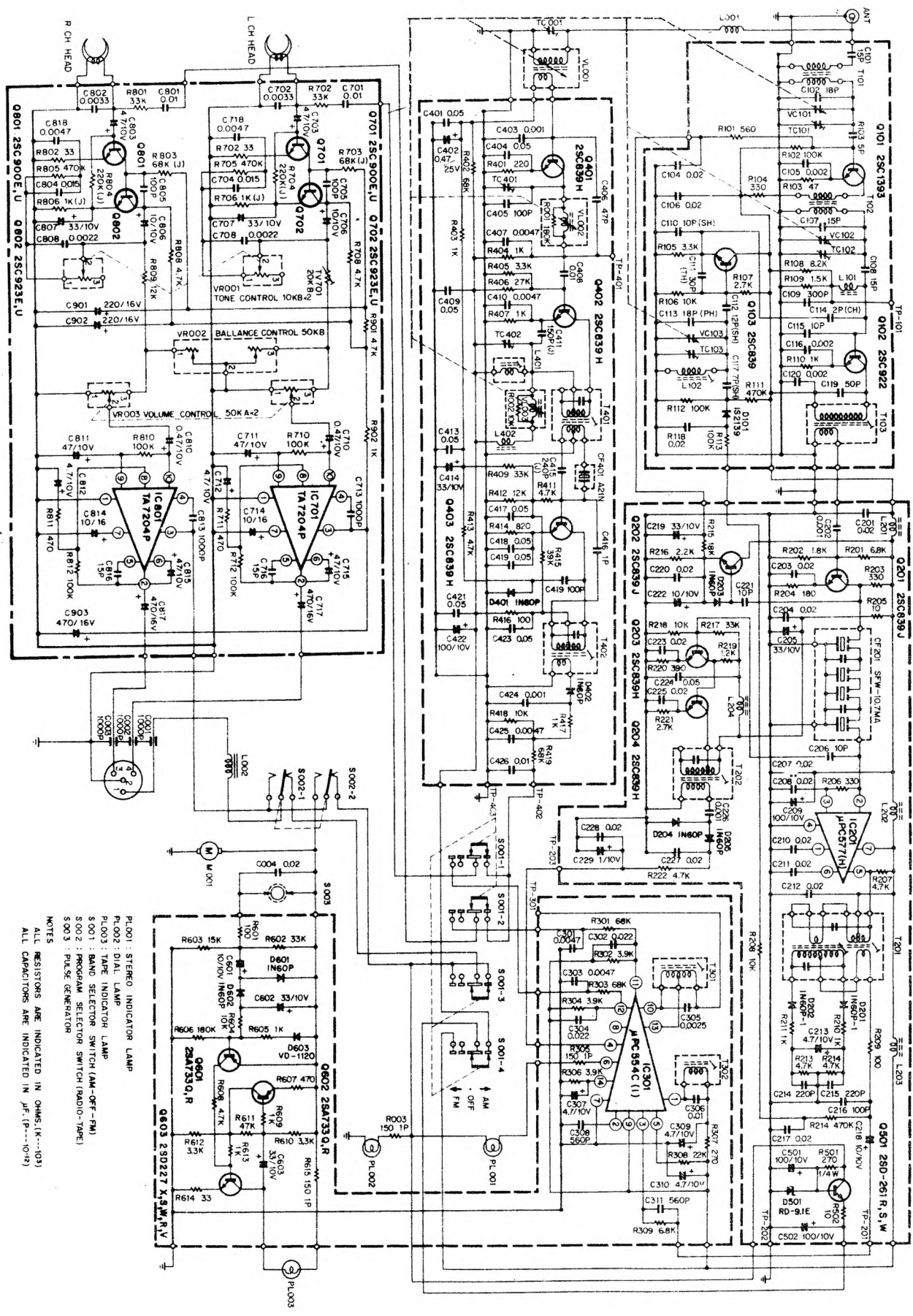
SANYO - MOD. FT - 4320



PL001 - STEREO INDICATOR LAMP
 PL002 - DIAL LAMP
 PL003 - TARE INDICATOR LAMP
 S 001 - BAND SELECTOR SWITCH (AM-OFF-FM)
 S 002 - PROGRAM SELECTOR SWITCH (RADIO-TAPE)
 S 003 - PULSE GENERATOR

NOTES
 ALL RESISTORS ARE INDICATED IN OHMS (K---103)
 ALL CAPACITORS ARE INDICATED IN μ F (P---1032)

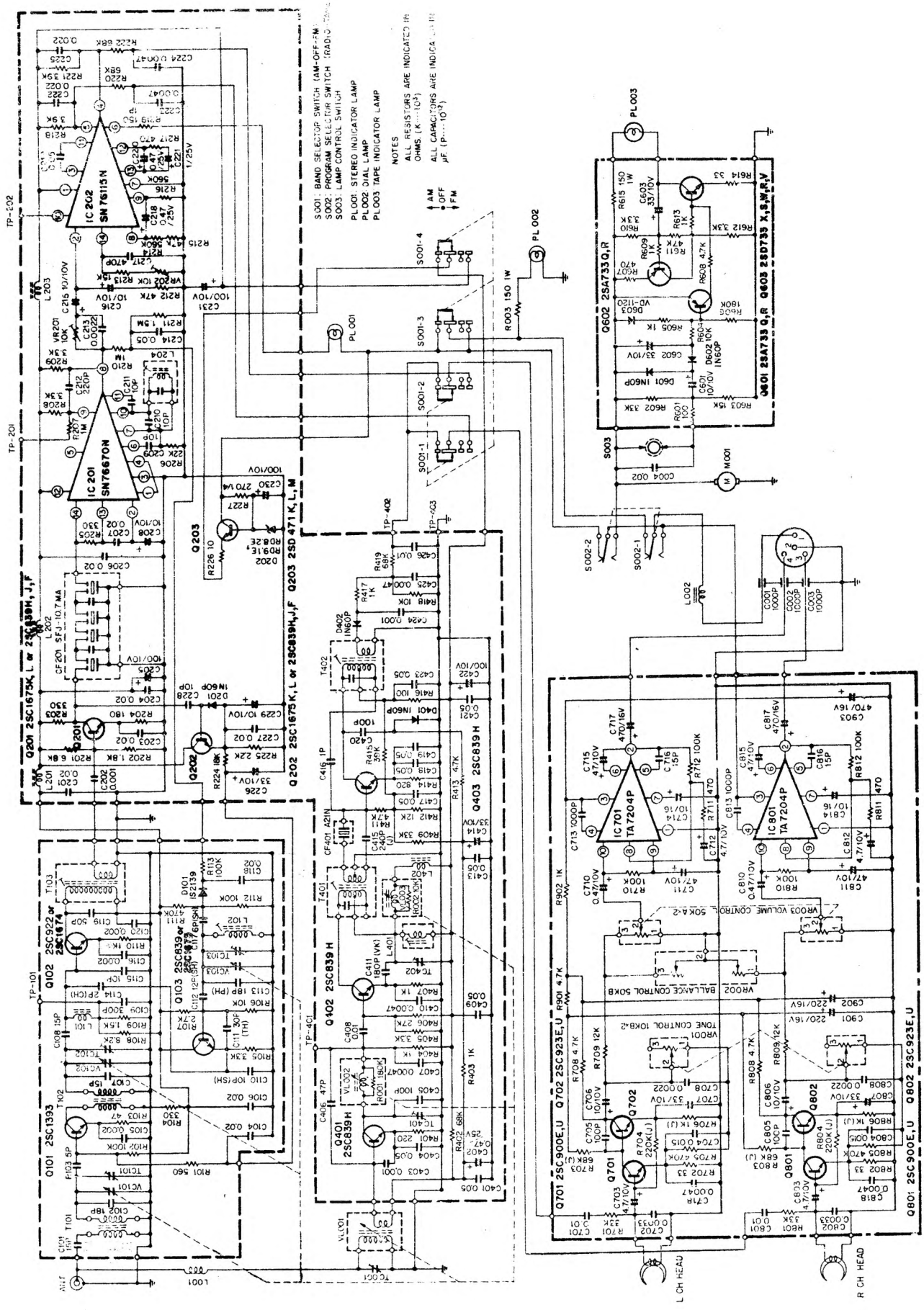
TKR 150 M Importado



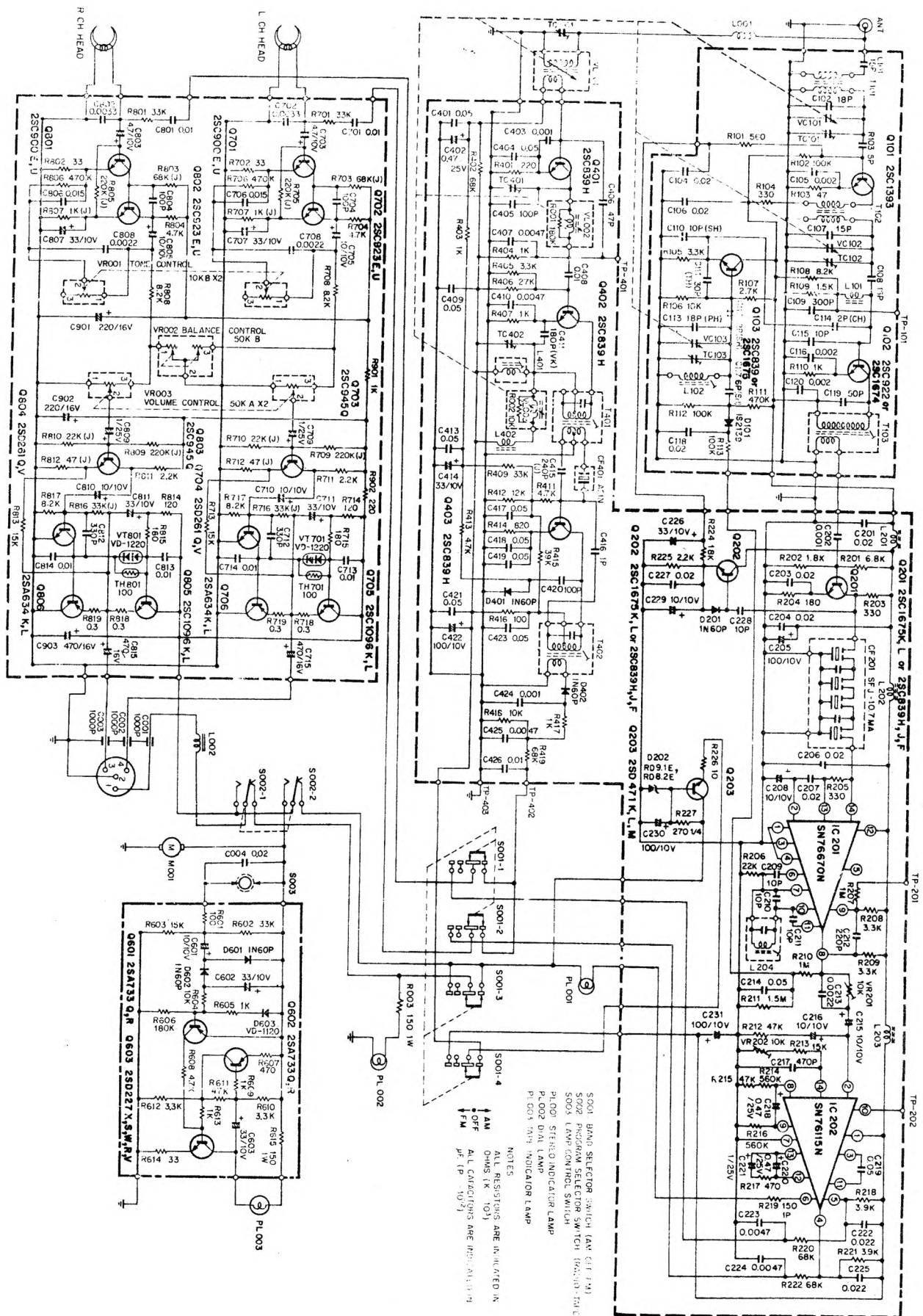
P1001 : STEREO INDICATOR LAMP
 P1002 : DIAL LAMP
 P1003 : TAPE INDICATOR LAMP
 S001 : BAND SELECTOR SWITCH (AM-OFF-FM)
 S002 : PROGRAM SELECTOR SWITCH (RADIO-TAPE)
 S003 : PULSE GENERATOR

NOTES
 ALL RESISTORS ARE INDICATED IN OHMS (K=1000, M=1000000)
 ALL CAPACITORS ARE INDICATED IN JF. (P=10, -10=100)

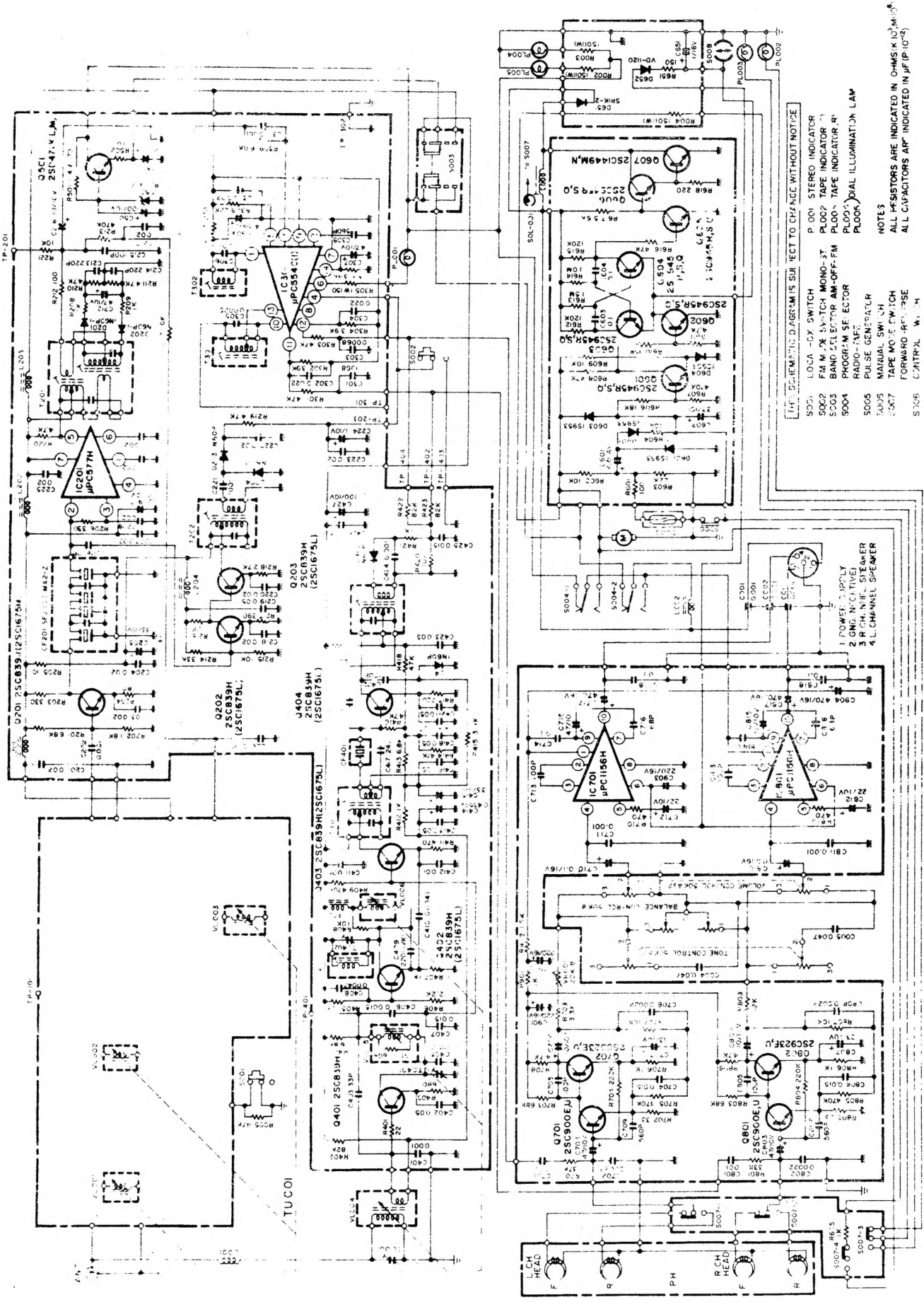
TKR 150 M Importado



TKR 150 M Importado

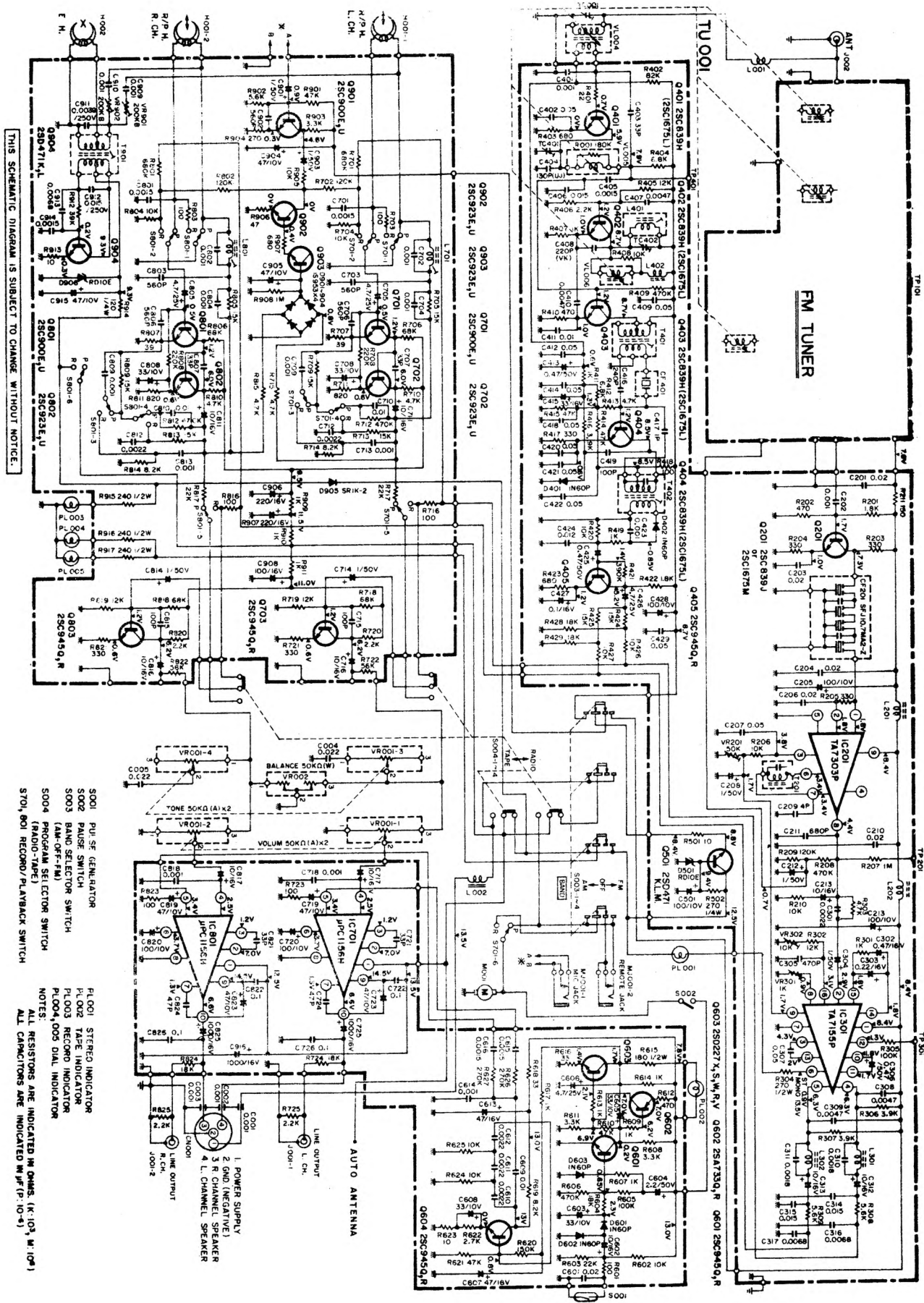


TKR 150 M Importado



- NOTE: ALL RESISTORS ARE INDICATED IN OHMS, K 10^3 , M 10^6 . ALL CAPACITORS ARE INDICATED IN μF , 10^{-6} .
- S001 LOCAL-DX SWITCH
 - P 001 STEREO INDICATOR
 - S002 FM-M/SWITCH MONO-ST.
 - S003 BAND SELECTOR AM-OFF-FM
 - S004 PROGRAM SELECTOR
 - S005 RADIO-TAPE
 - S006 PULSE GENERATOR
 - S007 MANUAL SWITCH
 - S008 TAPE MOTOR SW-TOCH
 - S009 FORWARD-REVERSE
 - S010 CENTRAL W. H.

TKR CRF-210M - Importado



TKR - MOD. CRF-800M

ÍNDICE

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CLARION	PE - 651-A	12
CLARION	PE - 809-A-02	13
MECCA	EL - 6861	14
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MOTORADIO	ACS - M-21	16
MOTORADIO	ACS - M-31/A	17
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