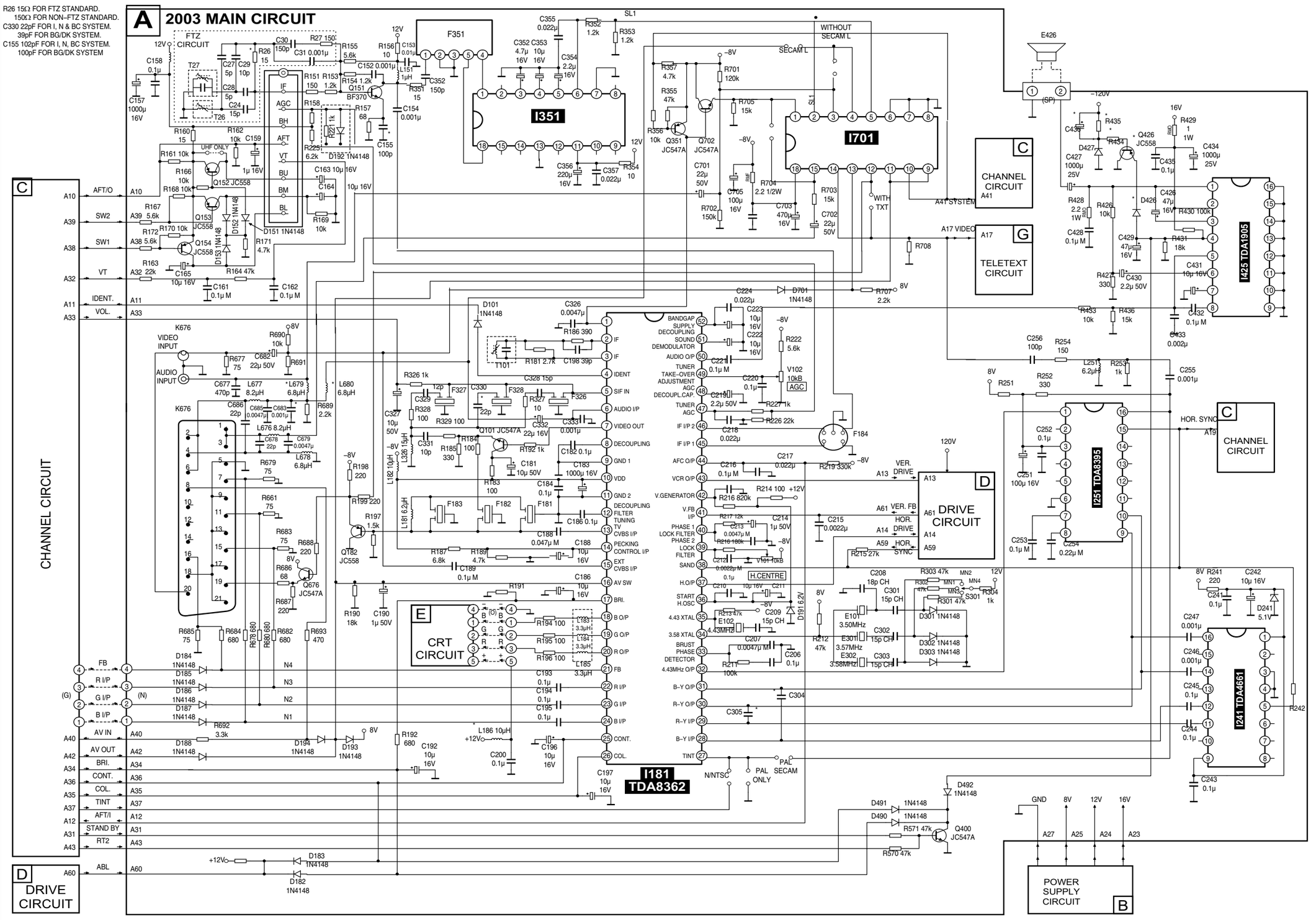
R26 15Ω FOR FTZ STANDARD.
150Ω FOR NON–FTZ STANDARD.
C330 22pF FOR I, N & BC SYSTEM.
39pF FOR BG/DK SYSTEM.
C155 102pF FOR I, N, BC SYSTEM.
100pF FOR BG/DK SYSTEM

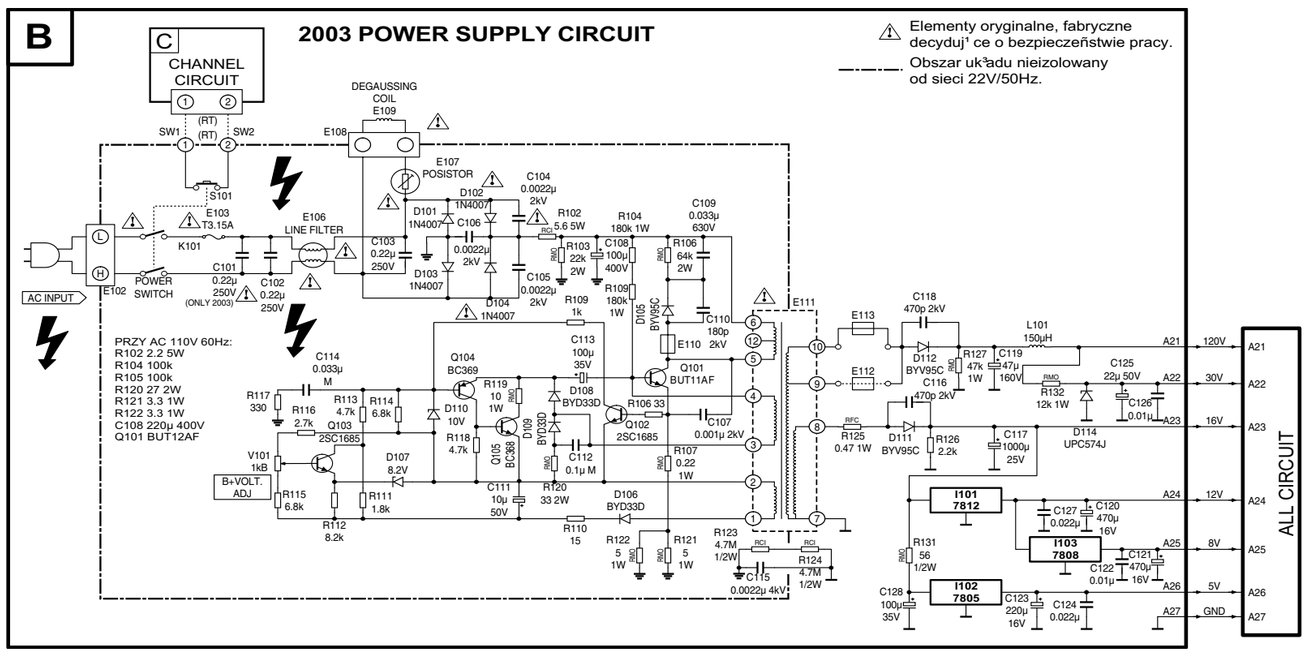
A 2003 MAIN CIRCUIT



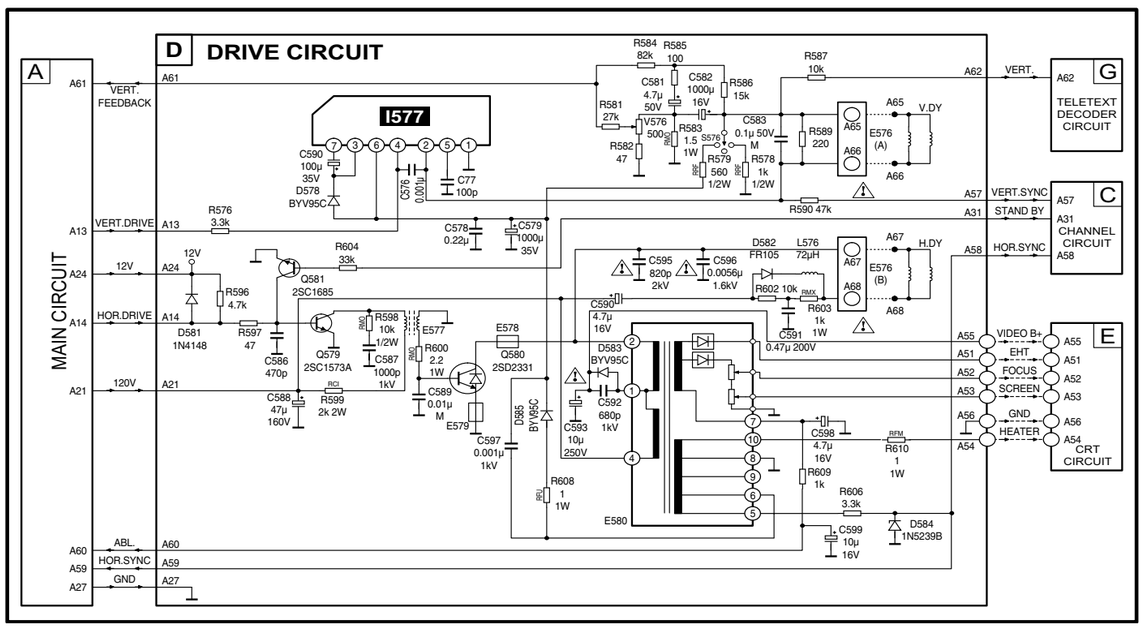
Tranzystory		Odpowiedniki
Typ	Opis – parametry (Ucbo/Ic/Ptot/ft)	
2SC 1573A	Si; npn; AF/Vid, 300V, 0.07A, 0.6W, 80MHz	BF259, BFR59, BFS89, 2N5058, 2SC4218
2SC 1685	Si; npn; uni, 60V, 0.1A, 0.25W, 150MHz	BC237, BC86, BCY65E, BC190, BC174, MMBC2107
2SD 2331	Si;N+Di; 1500/600V, 3A, 60W	BU706DF, 2SD1554, 2SD1650, 2SD2089
BC 368	Si; npn, AF–dr, 25V, 1A, 1W, 100MHz	2N3404, 2N3417, BC232, BC639, BC337
BF 869	Si; npn; Vid-pow, 250V, 0.05A, 5W, >60MHz	BF617, BF758, BF583, BF880, BF615
BUT 11AF	Si; npn;s-pow,iso.-/800ns, 1000/450, 5A, 20W	
JC 547A	Si; npn; AF/end, 50/45V, 0.1A, 0.5W, 300MHz	
JC 558	Si; pnp; AF dr; 30/30V, 0.1A, 0.5W, 200MHz	
PH 2369	Si; npn; s,-/18ns, 15V, 0.6A, 0.5W	

Diody		Odpowiedniki
Typ	Opis – parametry	
1N 4007	Si-Di; =1N4001: 1000V	BY127, BY133, 1N5622, BY227, BYT51M
1N 4148	Si-Di; FS, 75V, 0.2A, IFSM=2A/1µs/, <4ns	BAW62, BAW76, BAX95, 1N4446...49
1N 5239B	Z-Di; =1N5221: 9.1V, (S=300mW)	BZX55D9V1, 1N5855, THZ9R1A05, CD5239
BYD 33D	Si-Di; Re, S, contr. Av., 200V, 1.3A/Tc=55°/, <250ns	BYD34D, BY296..99, BYV13..16, RGP15G..M
BYV 95C	Si-Di; S, contr. av, 600V, 1.5A, <250ns	BYD37, BYW36
FR 105	Si-Di; =FR101: 600V	BY126..127, BY226..227, 1N4005..07

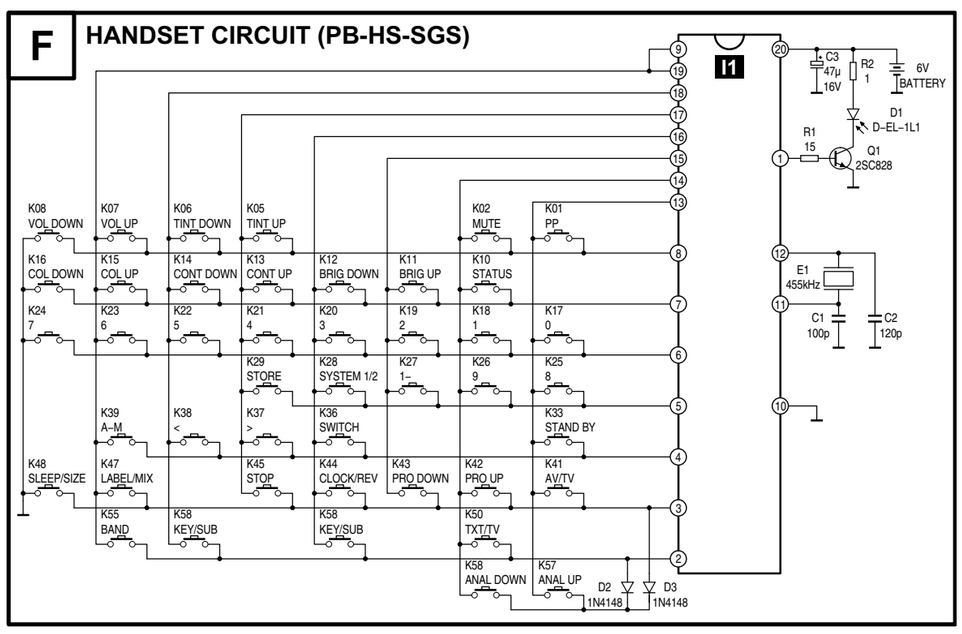
B 2003 POWER SUPPLY CIRCUIT



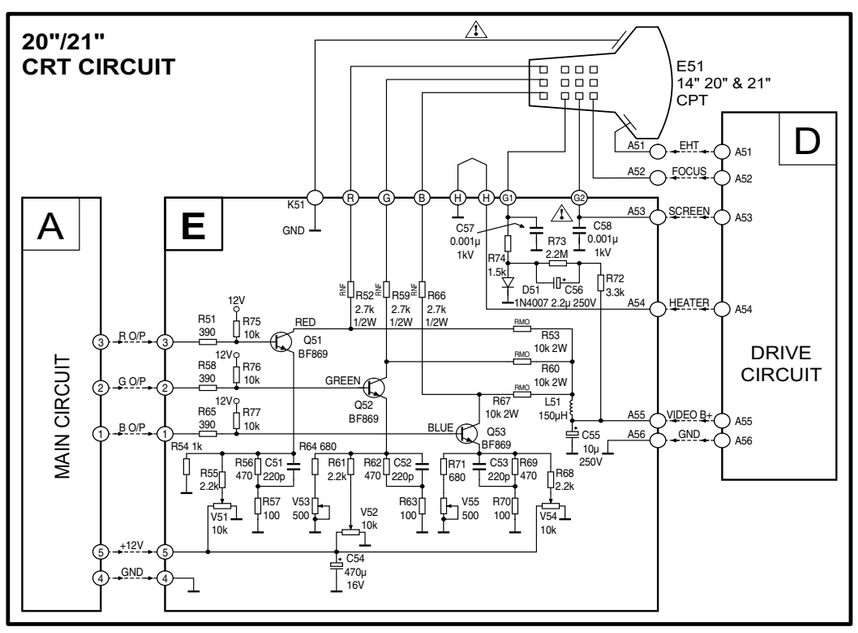
D DRIVE CIRCUIT



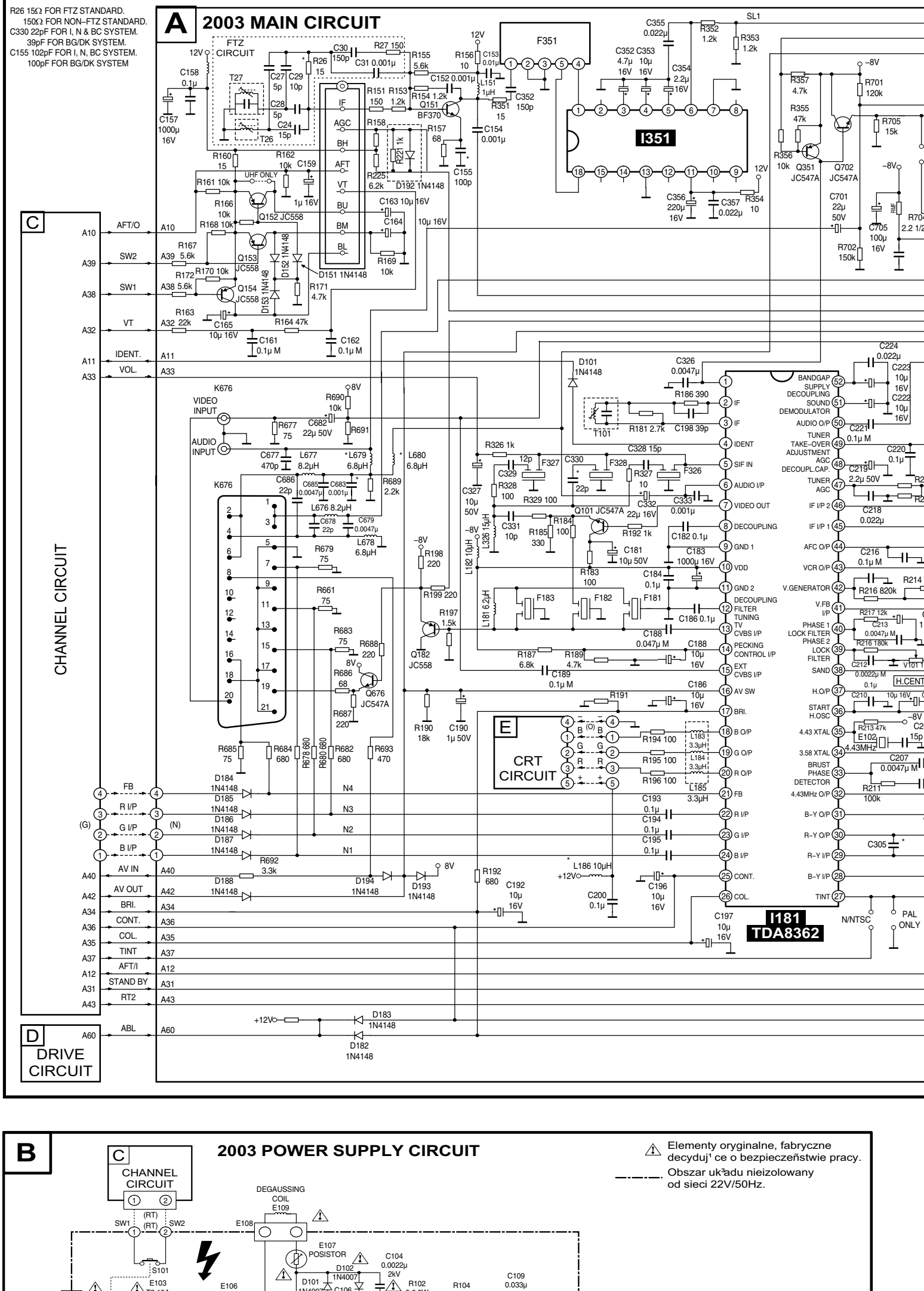
F HANDSET CIRCUIT (PB-HS-SGS)



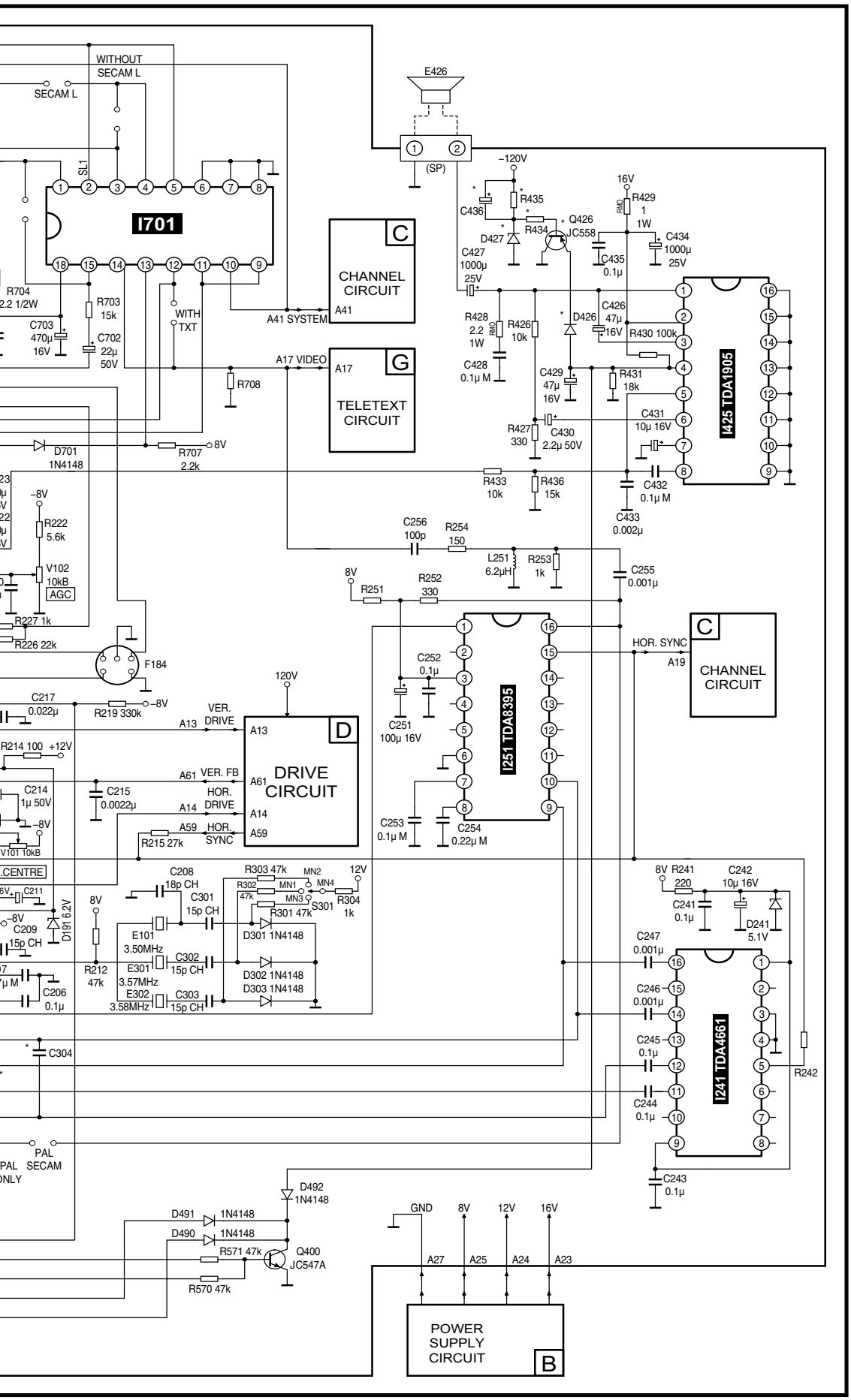
20"/21" CRT CIRCUIT



Telestar CTV2103

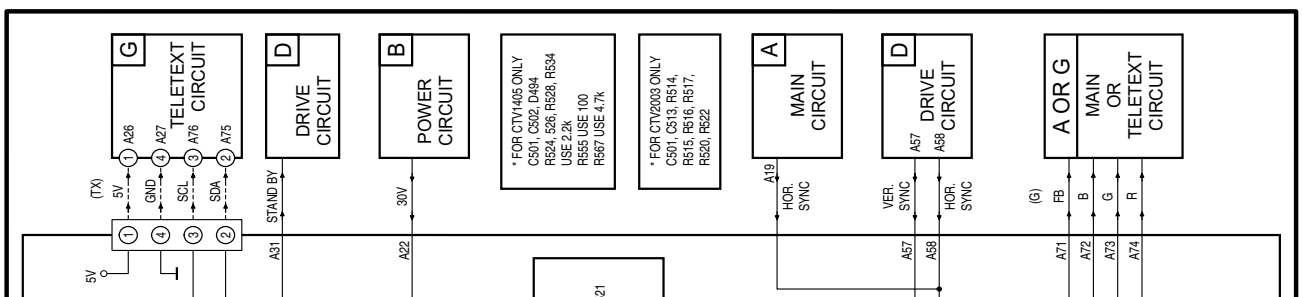

R26 15Ω FOR FTZ STANDARD.
150Ω FOR NON–FTZ STANDARD.
C330 22pF FOR I, N & BC SYSTEM.
39pF FOR BG/DK SYSTEM.
C155 102pF FOR I, N, BC SYSTEM.
100pF FOR BG/DK SYSTEM
A
2003 MAIN CIRCUIT
FTZ CIRCUIT
I351
I181 TDA8362
CRT CIRCUIT
CHANNEL CIRCUIT
DRIVE CIRCUIT
C
D
E
AFT/O
SW2
SW1
VT
IDENT.
VOL.
AV IN
AV OUT
BRI.
CONT.
COL.
TINT
AFT/I
STAND BY
RT2
ABL
FB
R I/P
G I/P
B I/P
VIDEO INPUT
AUDIO INPUT
N/NTSC
PAL ONLY

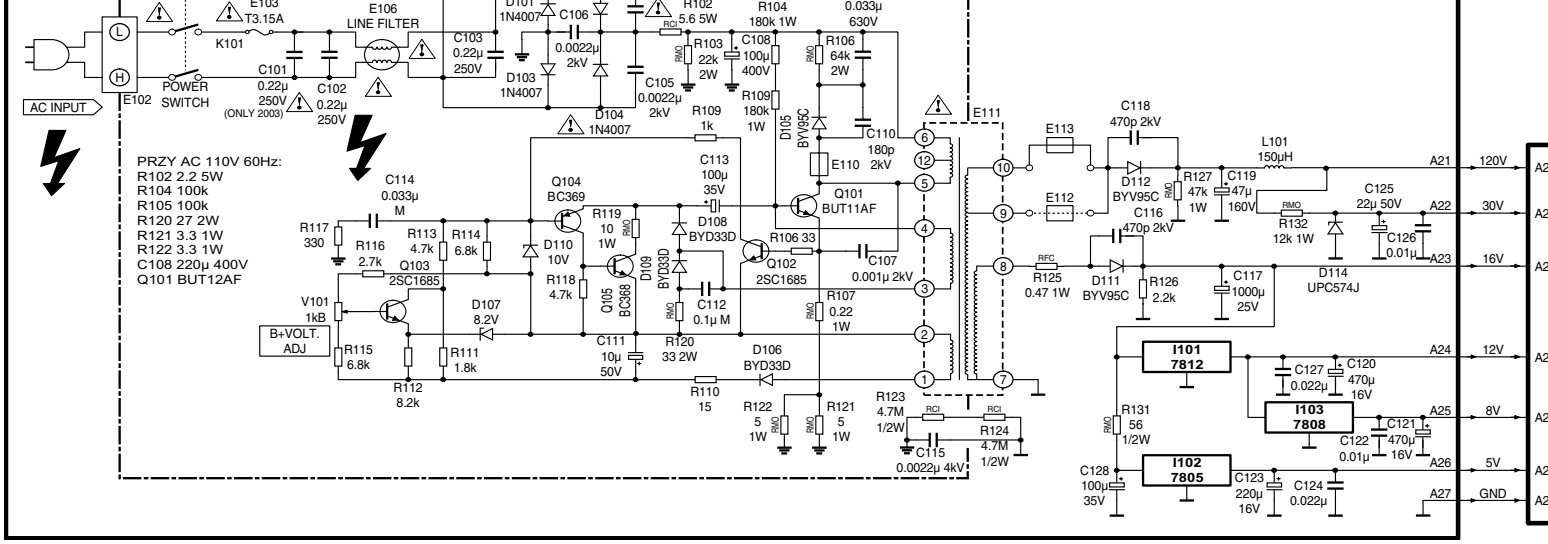
B
2003 POWER SUPPLY CIRCUIT
CHANNEL CIRCUIT
DEGAUSSING COIL E109
E107 POSISTOR
E103 T3.15A
E106 LINE FILTER
S101
Elementy oryginalne, fabryczne decyduj¹ ce o bezpieczeñstwie pracy.
Obszar uk³adu nieizolowany od sieci 22V/50Hz.

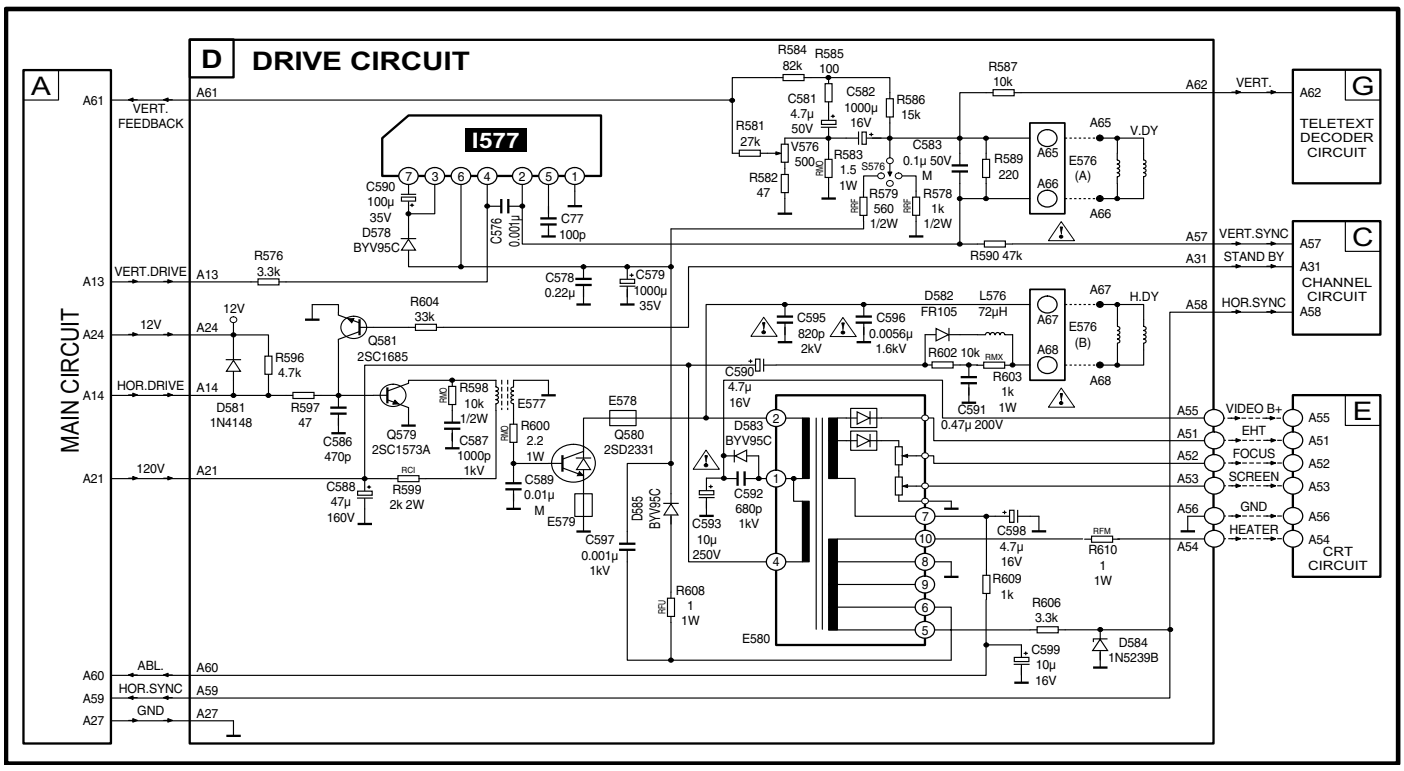


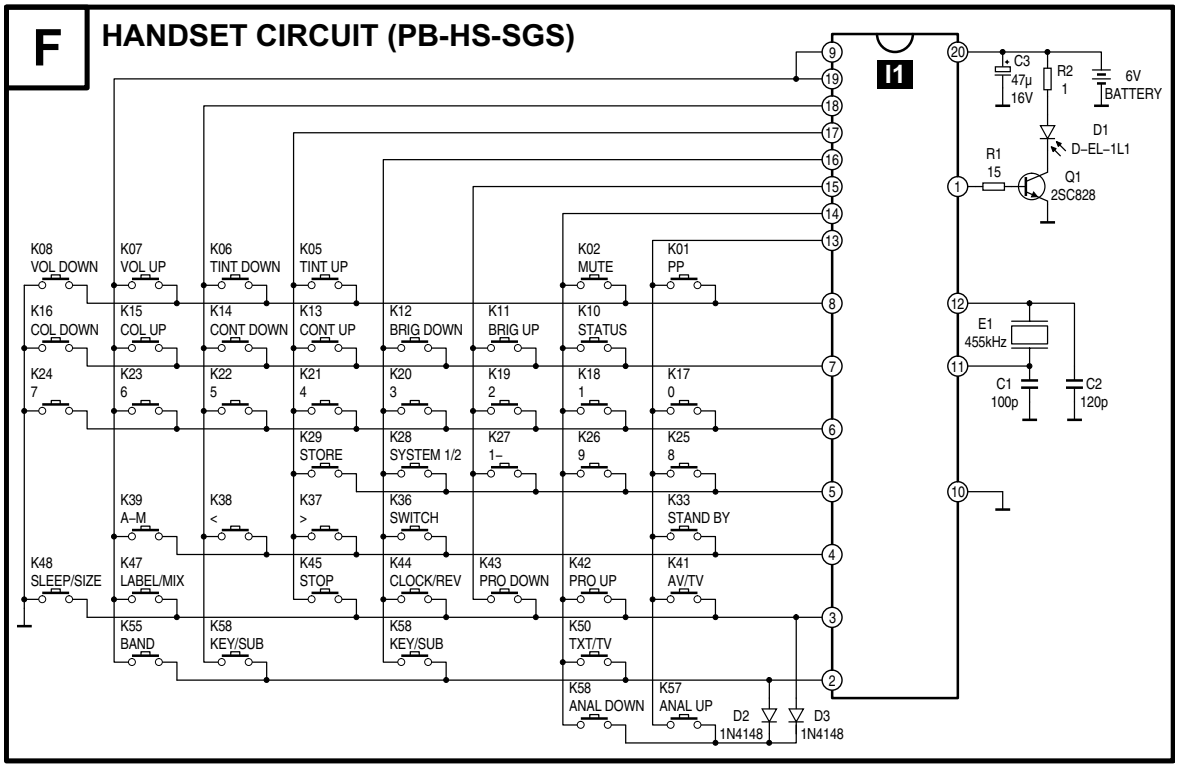
Diody	
Typ	Opis – parametry / Odpowiedniki
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1N 5239B	Z-Di; = 1N5221: 9.1V, (S=300mW) / BZX55D9V1, 1N5855, THZ9R1A05, CD5239
BYD 33D	Si-Di; Re,S, contr. Av., 200V, 1.3A/Tc=55°/, <250ns / BYD34D, BY296..99, BYV13..16, RGP15G..M
BYV 95C	Si-Di; S, contr.av. 600V, 1.5A, <250ns / BYD37, BYW36
FR 105	Si-Di; =FR101: 600V / BY126..127, BY226..227, 1N4005...07

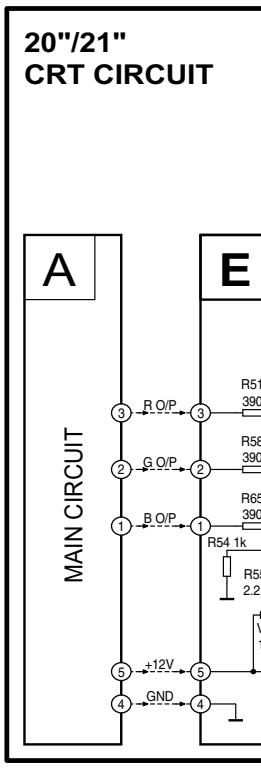
Tranzystory	
Typ	Opis – parametry (Ucbo/Ic/Ptot/ft) / Odpowiedniki
2SC 1573A	Si; npn; AF/vid, 300V, 0.07A, 0.6W, 80MHz / BF259, BFR59, BFS89, 2N5058, 2SC4218
2SC 1685	Si; npn; uni, 60V, 0.1A, 0.25W, 150MHz / BC237, BC86, BCY65E, BC190, BC174, MMBC2107
2SD 2331	Si-N+Di; 1500/600V, 3A, 60W / BU706DF, 2SD1554, 2SD1650, 2SD2089
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JC 547A	Si; npn; AF/end, 50/45V, 0.1A, 0.5W, 300MHz
JC 558	Si; pnp; AF dr, 30/30V, 0.1A, 0.5W, 200MHz
PH 2369	Si; npn; s.-/18ns, 15V, 0.6A, 0.5W

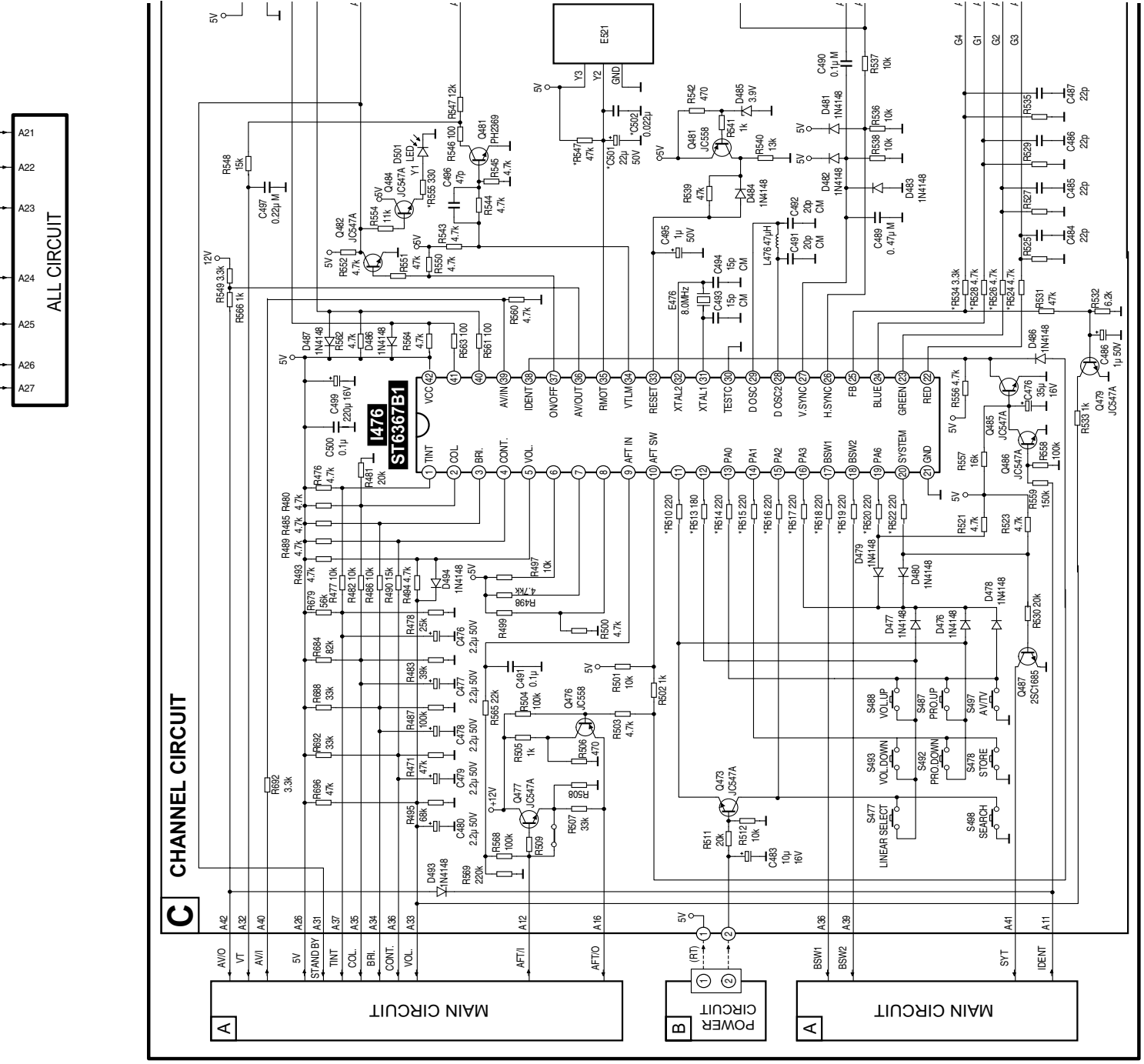


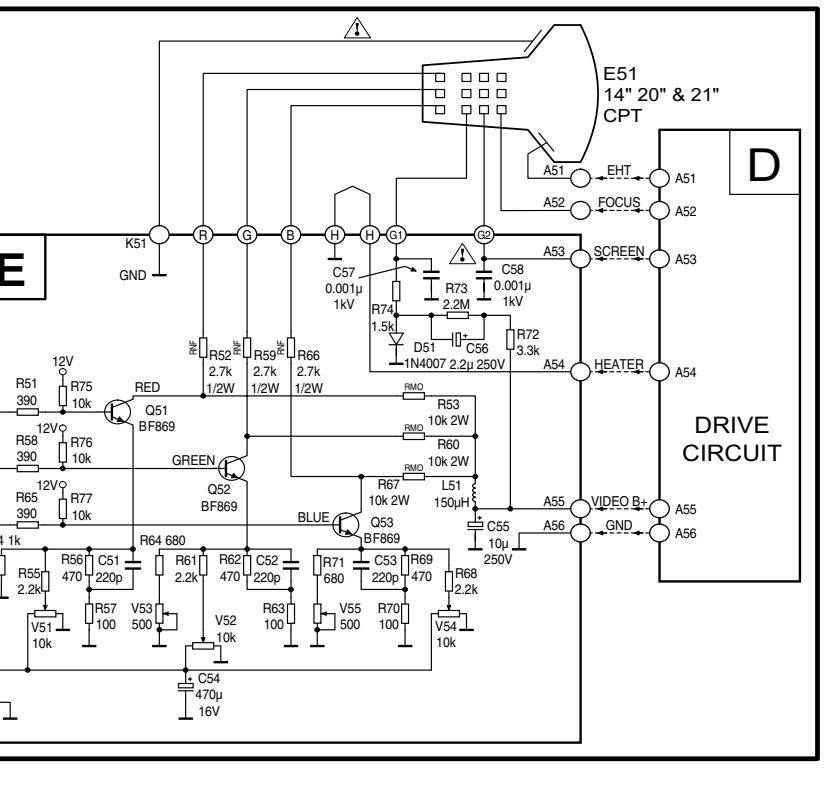

AC INPUT
E102
POWER SWITCH
K101
T3.15A
E106
LINE FILTER
C101 0.22µ 250V (ONLY 2003)
C102 0.22µ 250V
C103 0.22µ 250V
D101 1N4007
D103 1N4007
D104 1N4007
C106 0.0022µ 2kV
C105 0.0022µ 2kV
R102 5.6 5W
R103 22k 2W
C108 100µ 400V
R104 180k 1W
R106 64k 2W
R109 180k 1W
R109 1k
D105 BYV95C
C110 180p 2kV
E110
E111
Q101 BUT11AF
C113 100µ 35V
Q104 BC369
R119 10 1W
D108 BYD33D
R106 33
Q102 2SC1685
C107 0.001µ 2kV
C112 0.1µ M
R107 0.22 1W
R120 33 2W
D106 BYD33D
R110 15
R122 5 1W
R121 5 1W
R123 4.7M 1/2W
R124 4.7M 1/2W
C115 0.0022µ 4kV
C111 10µ 50V
D107 8.2V
R112 8.2k
R111 1.8k
R115 6.8k
B+VOLT. ADJ
V101 1kB
Q103 2SC1685
R117 330
R116 2.7k
R113 4.7k
R114 6.8k
C114 0.033µ M
D110 10V
R118 4.7k
Q105 BC368
D109 BYD33D
PRZY AC 110V 60Hz:
R102 2.2 5W
R104 100k
R105 100k
R120 27 2W
R121 3.3 1W
R122 3.3 1W
C108 220µ 400V
Q101 BUT12AF
E113
E112
C118 470p 2kV
D112 BYV95C
R127 47k 1W
C119 47µ 160V
C116 470p 2kV
L101 150µH
C125 22µ 50V
R132 12k 1W
C126 0.01µ
D114 UPC574J
R125 0.47 1W
D111 BYV95C
R126 2.2k
C117 1000µ 25V
I101 7812
I103 7808
I102 7805
C127 0.022µ
C120 470µ 16V
C121 470µ 16V
C122 0.01µ
R131 56 1/2W
C128 100µ 35V
C123 220µ 16V
C124 0.022µ
A21 120V
A22 30V
A23 16V
A24 12V
A25 8V
A26 5V
A27 GND


D DRIVE CIRCUIT
MAIN CIRCUIT
A61 VERT. FEEDBACK
A13 VERT.DRIVE
A24 12V
A14 HOR.DRIVE
A21 120V
A60 ABL.
A59 HOR.SYNC
A27 GND
I577
R576 3.3k
R604 33k
Q581 2SC1685
D581 1N4148
R596 4.7k
R597 47
C586 470p
Q579 2SC1573A
R598 10k 1/2W
C587 1000p 1kV
R600 2.2 1W
C589 0.01µ M
E577
E578
Q580 2SD2331
E579
C597 0.001µ 1kV
D585 BYV95C
C588 47µ 160V
R599 2k 2W
C590 100µ 35V
D578 BYV95C
C576 0.001µ
C77 100p
C578 0.22µ
C579 1000µ 35V
R584 82k
R585 100
C581 4.7µ 50V
C582 1000µ 16V
R586 15k
R587 10k
R581 27k
V576 500
R583 1.5 1W
S576
R579 560 1/2W
R582 47
R578 1k 1/2W
C583 0.1µ 50V M
R589 220
R590 47k
A62 VERT.
A57 VERT.SYNC
A31 STAND BY
A58 HOR.SYNC
A65 V.DY
A66
E576 (A)
A67 H.DY
A68
E576 (B)
D582 FR105
L576 72µH
C595 820p 2kV
C596 0.0056µ 1.6kV
R602 10k
R603 1k 1W
C590 4.7µ 16V
C591 0.47µ 200V
D583 BYV95C
C592 680p 1kV
C593 10µ 250V
R608 1 1W
C598 4.7µ 16V
R609 1k
R610 1 1W
R606 3.3k
C599 10µ 16V
D584 1N5239B
E580
A55 VIDEO B+
A51 EHT
A52 FOCUS
A53 SCREEN
A56 GND
A54 HEATER
A62 TELETEXT DECODER CIRCUIT
A57 A31 A58 CHANNEL CIRCUIT
A55 A51 A52 A53 A56 A54 CRT CIRCUIT


F HANDSET CIRCUIT (PB-HS-SGS)
I1
K08 VOL DOWN
K07 VOL UP
K06 TINT DOWN
K05 TINT UP
K02 MUTE
K01 PP
K16 COL DOWN
K15 COL UP
K14 CONT DOWN
K13 CONT UP
K12 BRIG DOWN
K11 BRIG UP
K10 STATUS
K24 7
K23 6
K22 5
K21 4
K20 3
K19 2
K18 1
K17 0
K29 STORE
K28 SYSTEM 1/2
K27 1–
K26 9
K25 8
K39 A–M
K38 <
K37 >
K36 SWITCH
K33 STAND BY
K48 SLEEP/SIZE
K47 LABEL/MIX
K45 STOP
K44 CLOCK/REV
K43 PRO DOWN
K42 PRO UP
K41 AV/TV
K55 BAND
K58 KEY/SUB
K58 KEY/SUB
K50 TXT/TV
K58 ANAL DOWN
K57 ANAL UP
D2 1N4148
D3 1N4148
C3 47µ 16V
R2 1
6V BATTERY
D1 D-EL-1L1
R1 15
Q1 2SC828
E1 455kHz
C1 100p
C2 120p


20"/21"
CRT CIRCUIT
A
MAIN CIRCUIT
R O/P
G O/P
B O/P
+12V
GND
E
R54 1k


ALL CIRCUIT
A21
A22
A23
A24
A25
A26
A27
C CHANNEL CIRCUIT
I476
ST6367B1
MAIN CIRCUIT
POWER CIRCUIT
MAIN CIRCUIT
A
B
A
C
AV/O
VT
AV/I
5V
STAND BY
TINT
COL.
BRI.
CONT.
VOL.
AFT/I
AFT/O
BSW1
BSW2
SVT
IDENT


E51
14" 20" & 21"
CPT
D
DRIVE
CIRCUIT
K51
GND
EHT
FOCUS
SCREEN
HEATER
VIDEO B+
GND
RED
GREEN
BLUE
Q51
BF869
Q52
BF869
Q53
BF869
D51
1N4007 2.2µ 250V
L51
150µH
C54
470µ
16V
C55
10µ
250V