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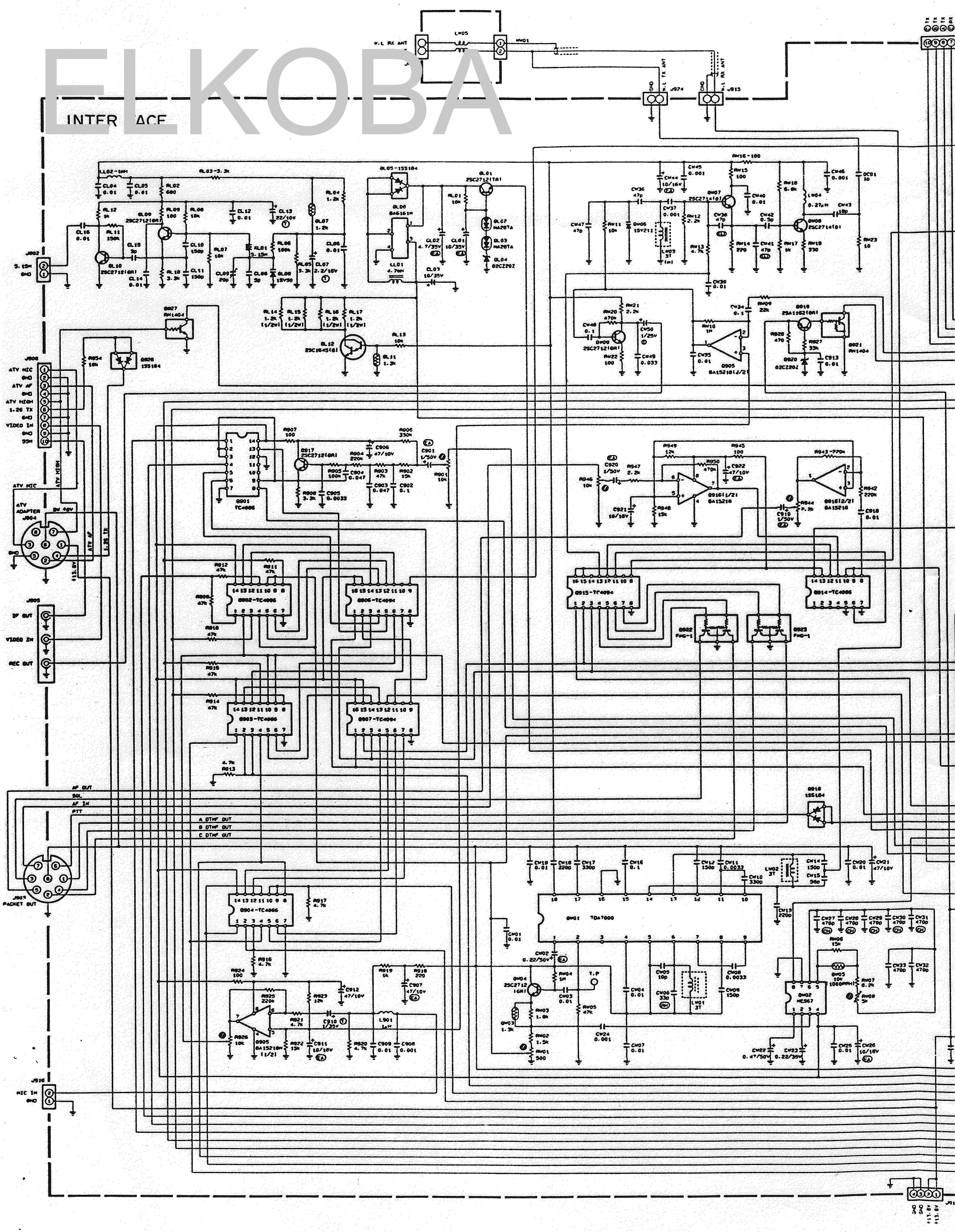
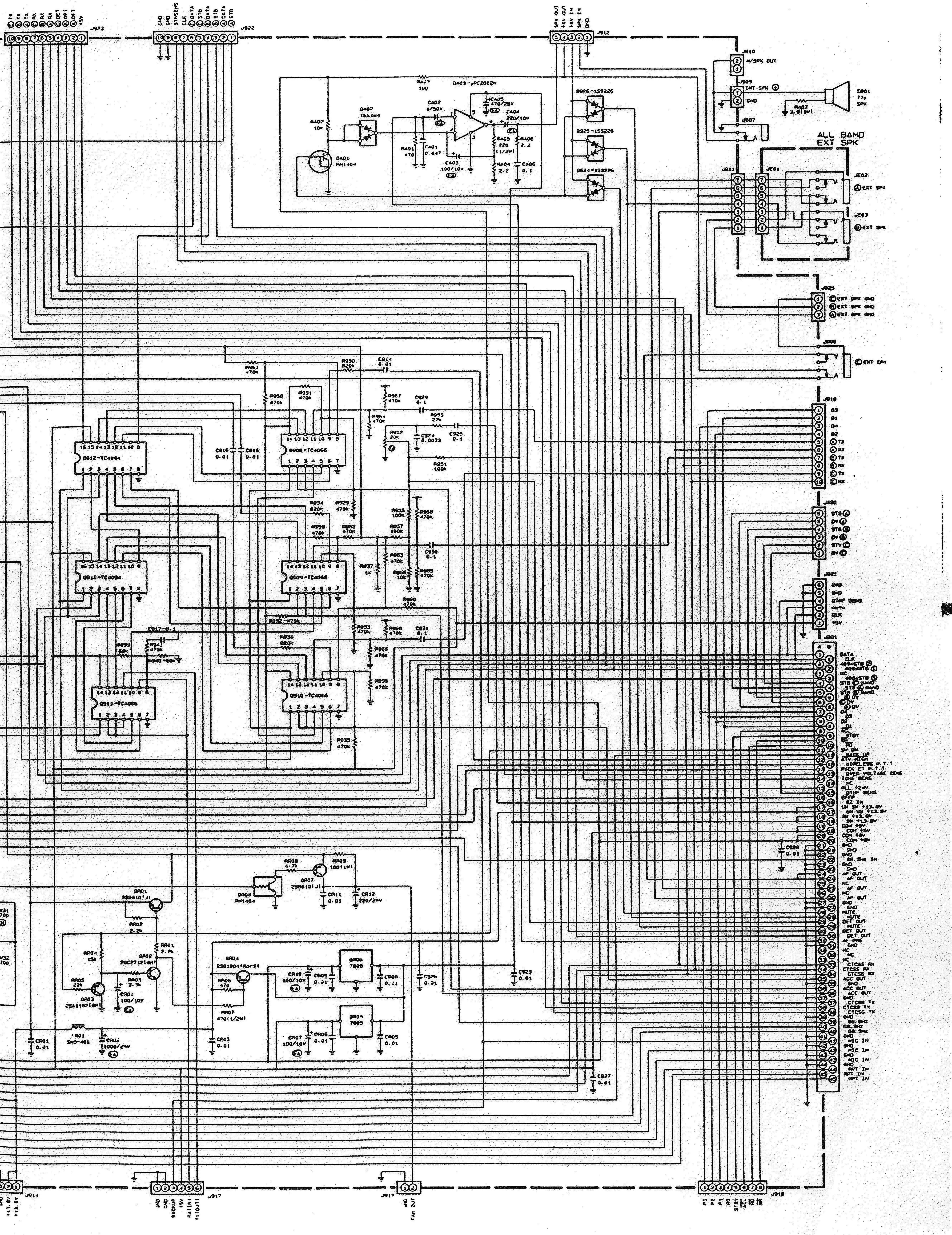
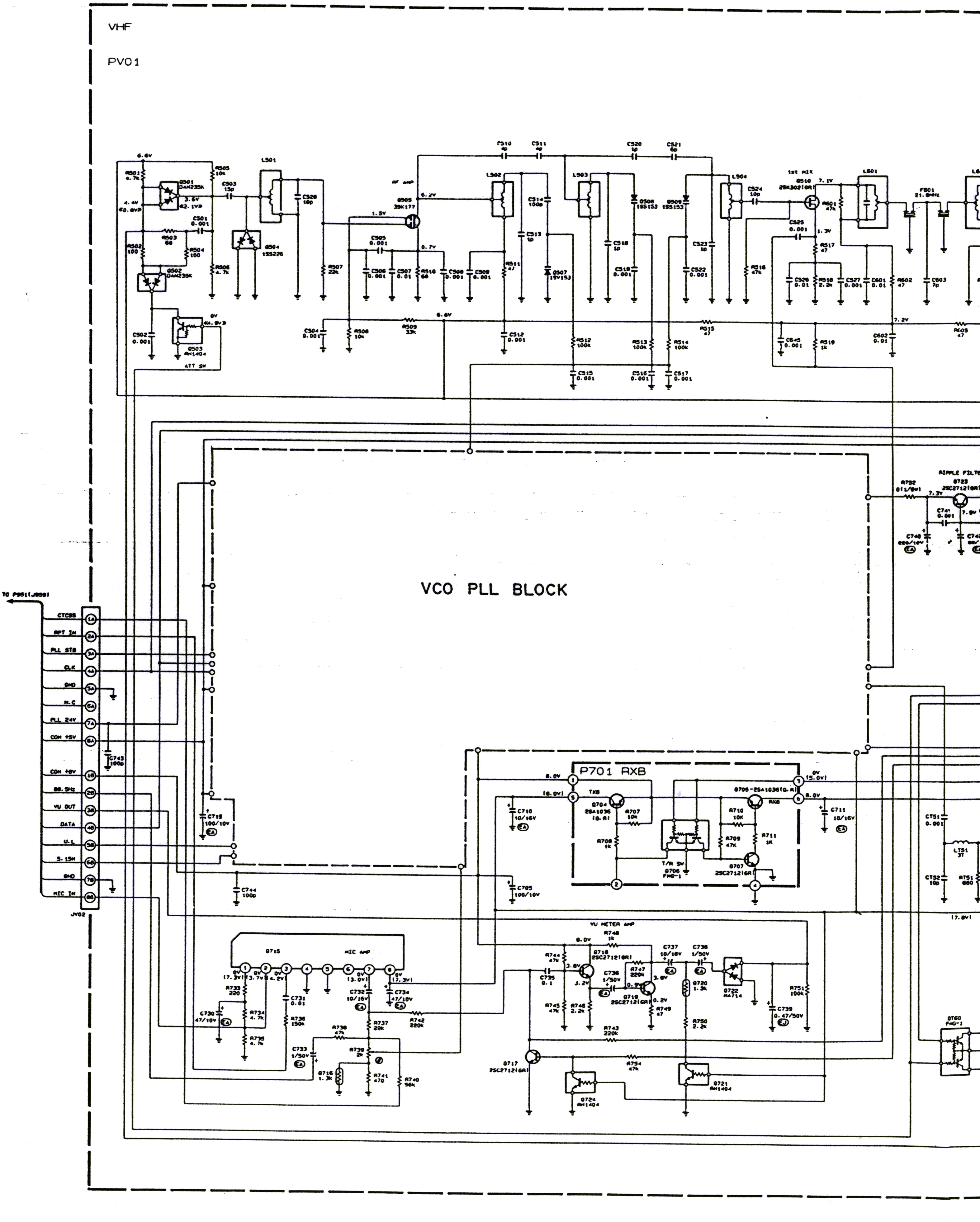
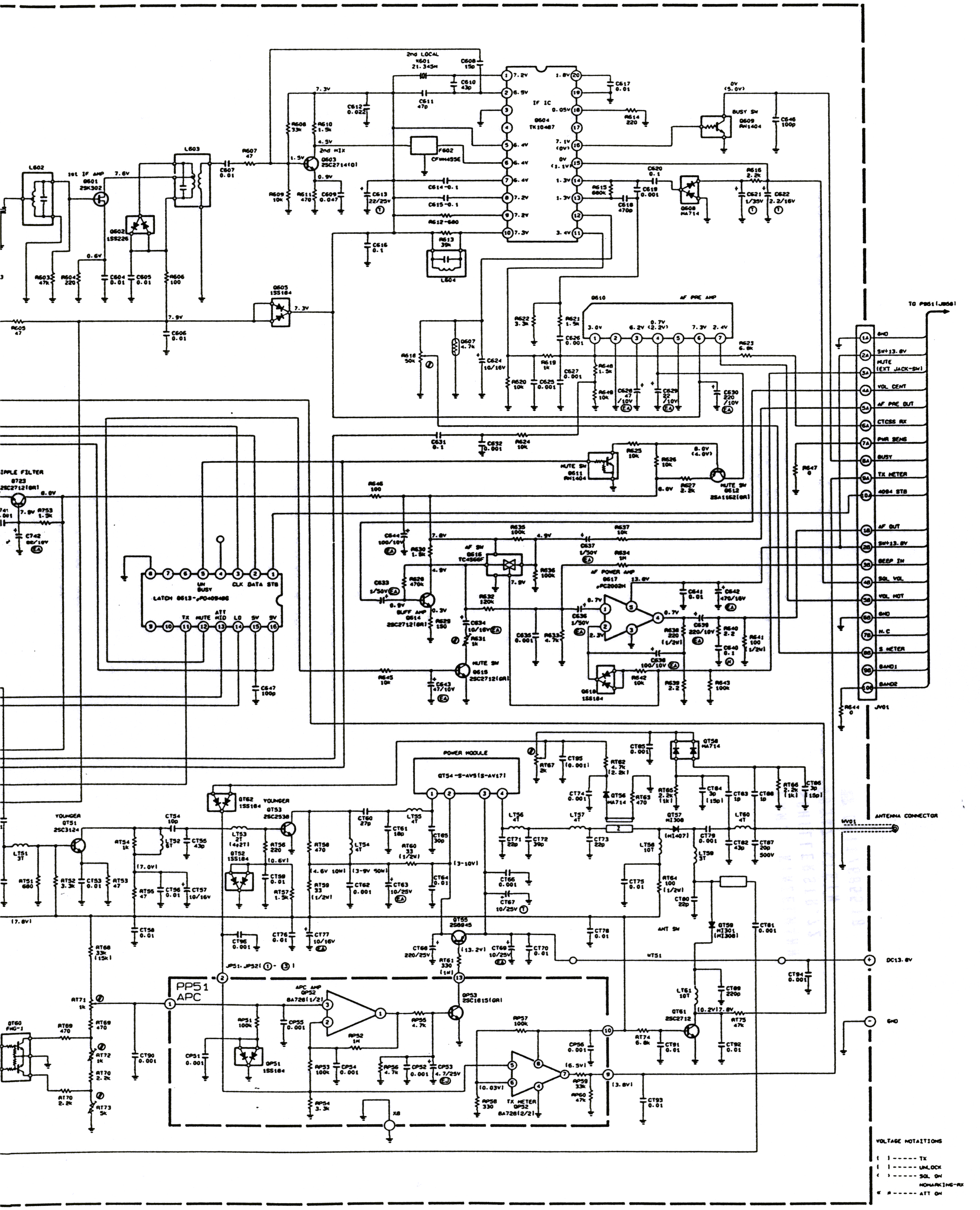

INTERFACE
W.L RX ANT
LW05
WW01
W.L TX ANT
W.L RX ANT
GND
J924
J915
J902
5.15M
GND
J908
ATV MIC
GND
ATV AF
GND
ATV HIGH
1.26 TX
GND
VIDEO IN
GND
55M
ATV MIC
ATV ADAPTER
J904
ATV HIGH
ATV AF
1.26 TX
13.8V
J905
IF OUT
VIDEO IN
REC OUT
AF OUT
SQL
AF IN
PTT
A DTMF OUT
B DTMF OUT
C DTMF OUT
J903
PACKET OUT
J916
MIC IN
GND
QL05-1SS184
QL01 2SC2712(TA)
QL06 BA6161M
LL01 4.7mH
QL07 MA28TA
QL03 MA28TA
QL04 02CZ20Z
QL09 2SC2712(GR)
QL10 2SC2712(GR)
QL08 1SV50
QL12 2SC1645(G)
Q927 RH1404
Q926 1SS184
Q901 TC4066
Q917 2SC2712(GR)
Q902-TC4066
Q906-TC4094
Q903-TC4066
Q907-TC4094
Q904-TC4066
Q905 BA15218N (1/2)
L901 1mH
QW07 2SC2714(O)
QW08 2SC2714(O)
LW03 3T
QW06 1SV211
QW09 2SC2712(GR)
QW05 BA15218(2/2)
QW19 2SA1162(GR)
QW20 02CZ20Z
QW21 RH1404
Q916(1/2) BA15218
Q916(2/2) BA15218
Q915-TC4094
Q914-TC4066
Q922 FMG-1
Q923 FMG-1
Q918 1SS184
QW01 TDA7000
LW02 3T
LW01 3T
QW04 2SC2712 (GR)
QW02 NE567
T.P
J91


J923
J922
J912
SPK OUT
+8V OUT
+8V IN
SPK IN
GND
J910
H/SPK OUT
J909
INT SPK
GND
E801
77o
SPK
RA07
3.9(1W)
J907
ALL BAND
EXT SPK
J911
JE01
JE02
Ⓐ EXT SPK
JE03
Ⓑ EXT SPK
J825
Ⓒ EXT SPK GND
Ⓑ EXT SPK GND
Ⓐ EXT SPK GND
J806
Ⓒ EXT SPK
J819
D3
D1
D4
D2
Ⓐ TX
Ⓐ RX
Ⓑ TX
Ⓑ RX
Ⓒ TX
Ⓒ RX
J820
STB Ⓐ
8V Ⓐ
STB Ⓑ
8V Ⓑ
STB Ⓒ
8V Ⓒ
J821
GND
GND
DTMF SENS
CLK
+5V
J801
DATA
CLK
4094STB ②
4094STB ①
NC
4094STB ③
STB Ⓒ BAND
STB Ⓐ BAND
STB Ⓑ BAND
Ⓐ 8V
Ⓒ 8V
Ⓑ 8V
D4
D3
D2
D1
STBY
PO
SW ON
BACK UP
ATV HIGH
WIRELESS P.T.T
PACK ET P.T.T
OVER VOLTAGE SENS
TONE SENS
NC
PLL +24V
DTMF SENS
BEEP
BZ IN
UN SW +13.8V
UN SW +13.8V
SW +13.8V
SW +13.8V
COM +5V
COM +5V
COM +8V
COM +8V
GND
88.5Hz IN
AF OUT
NC
MUTE
DET OUT
AF PRE
CTCSS RX
ACC OUT
CTCSS TX
88.5Hz
MIC IN
RPT IN
C828
0.01
QA03-μPC2002H
QA07
1SS184
QA01
AN1404
RA07
100
RA02 10k
CA02 1/50V
CA05 470/25V
CA04 220/10V
RA01 470
CA01 0.047
CA03 100/10V
RA05 220 (1/2W)
RA06 2.2
RA04 2.2
CA06 0.1
Q926-1SS226
Q925-1SS226
Q924-1SS226
Q912-TC4094
Q913-TC4094
Q911-TC4066
Q908-TC4066
Q909-TC4066
Q910-TC4066
R961 470k
R930 820k
C914 0.01
R958 470k
R931 470k
R967 470k
C929 0.1
R964 470k
R953 22k
R952 20k
C924 0.0033
C925 0.1
R951 100k
C916 0.01
C915 0.01
R934 820k
R929 470k
R955 100k
R968 470k
R959 470k
R962 470k
R957 100k
C930 0.1
R963 470k
R937 1k
R956 10k
R965 470k
R960 470k
R932 470k
R933 470k
R969 470k
C931 0.1
R938 820k
R966 470k
R936 470k
R935 470k
C917 0.1
R939 68k
R941 470k
R940 68k
RR08 4.7k
RR09 100(1W)
QR07 2SB810(J)
QR08 AN1404
CR11 0.01
CR12 220/25V
QR01 2SB810(J)
RR02 2.2k
RR01 2.2k
RR04 15k
QR02 2SC2712(GR)
RR05 22k
RR03 3.3k
CR04 100/10V
QR03 2SA1162(GR)
QR04 2SB1204(Ror S)
RR06 470
RR07 470(1/2W)
CR10 100/10V
CR09 0.01
QR06 7808
CR08 0.01
C976 0.01
C923 0.01
CR07 100/10V
CR06 0.01
QR05 7805
CR05 0.01
CR01 0.01
LR01 SMS-400
CR02 1000/25V
CR03 0.01
C927 0.01
J914
+13.8V
J917
GND
GND
BACKUP
+5V
RX(IN)
TX(OUT)
J913
GND
FAN OUT
J918
P3
P2
P1
P0
STBY
ACC
PO
PE

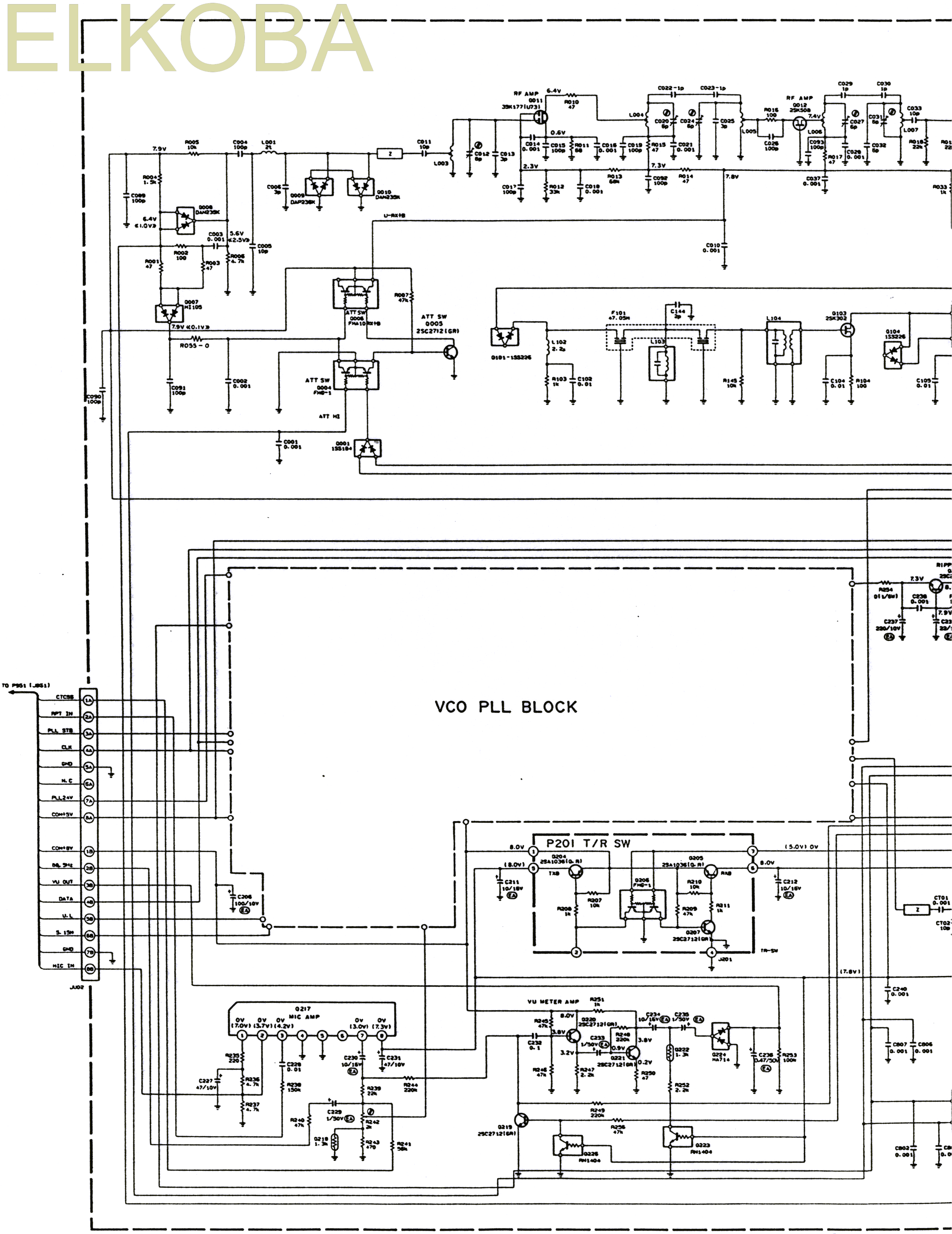
STANDARD®

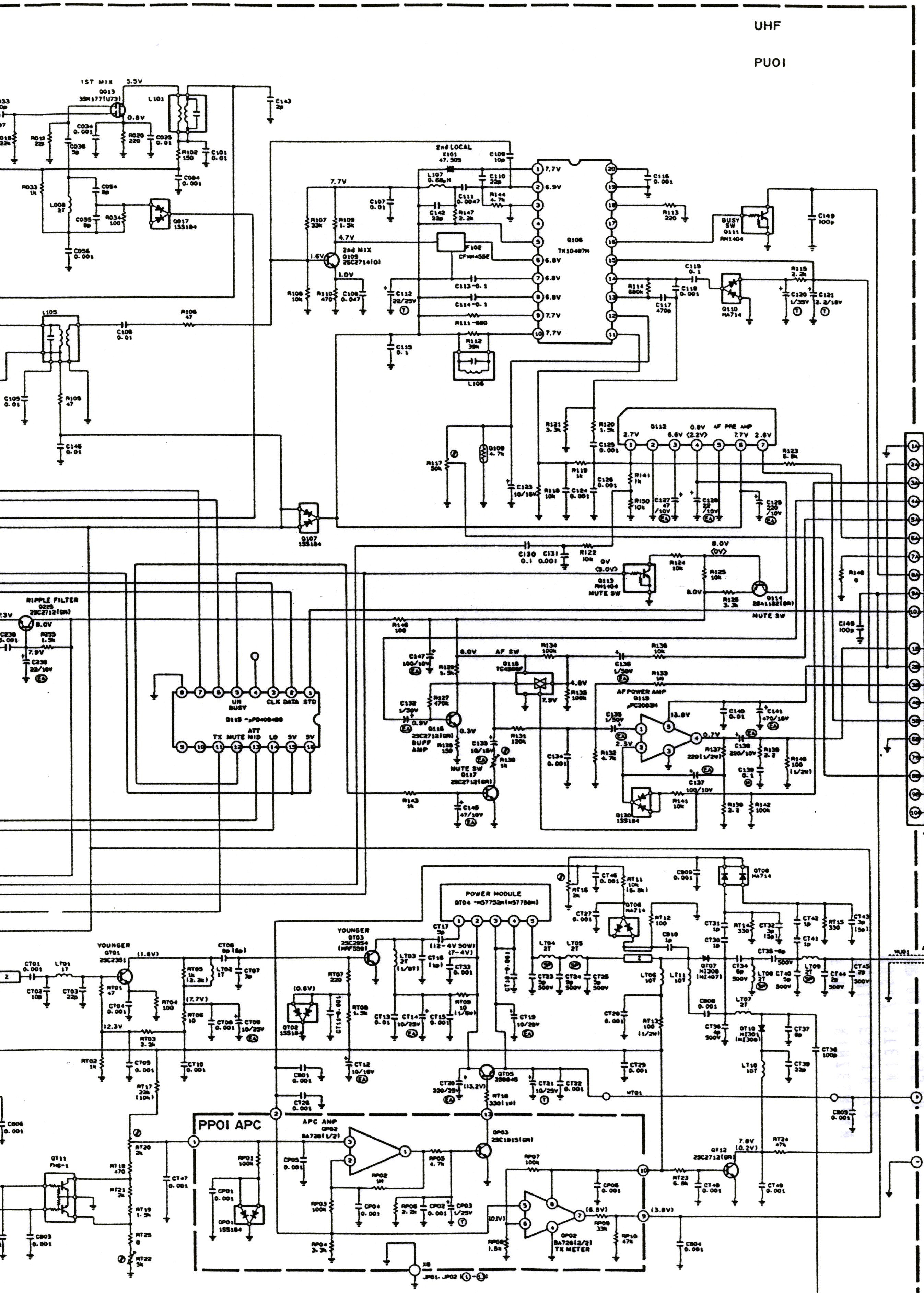

VHF
PV01
RF AMP
1st MIX
ATT SW
VCO PLL BLOCK
RIPPLE FILTE
TO P951(J909)
CTCSS
RPT IN
PLL STB
CLK
GND
N.C
PLL 24V
COM +5V
COM +8V
86.5MHz
VU OUT
DATA
U.L
5.15M
GND
MIC IN
J702
P701 RXB
T/R SW
MIC AMP
VU METER AMP

C50/C50D 回路図


2nd LOCAL
X601
21.345M
IF IC
Q604
TK10487
2nd MIX
Q603
2SC2714(O)
F602
CFWM455E
1st IF AMP
Q601
2SK302
L602
L603
L604
Q602
1SS226
Q605
1SS184
BUSY SW
Q609
RN1404
Q608
MA714
AF PRE AMP
Q610
Q607
RIPPLE FILTER
Q723
2SC2712(GR)
LATCH Q613 μPD4094BC
UN BUSY
CLK
DATA
STB
TX
MUTE
ATT MID
LO
5V
5V
MUTE SW
Q611
RN1404
MUTE SW
Q612
2SA1162(GR)
AF SW
Q616
TC4S66F
BUFF AMP
Q614
2SC2712(GR)
MUTE SW
Q615
2SC2712(GR)
AF POWER AMP
Q617
μPC2002H
Q618
1SS184
TO P951(J958)
1A GND
2A SW+13.8V
3A MUTE (EXT JACK-SW)
4A VOL CENT
5A AF PRE OUT
6A CTCSS RX
7A PWR SENS
8A BUSY
9A TX METER
10A 4094 STB
1B AF OUT
2B SW+13.8V
3B BEEP IN
4B SQL VOL
5B VOL HOT
6B GND
7B N.C
8B S METER
9B BAND1
10B BAND2
R644
0
JV01
POWER MODULE
QT54 -S-AV5(S-AV17)
QT58
MA714
QT56
MA714
QT57
MI308
ANTENNA CONNECTOR
WV01
YOUNGER
QT51
2SC3124
QT52
1SS184
QT62
1SS184
YOUNGER
QT53
2SC2538
QT55
2SB945
ANT SW
QT59
MI301
(MI308)
QT61
2SC2712
WT51
DC13.8V
GND
JP51· JP52(①- ③)
PP51
APC
APC AMP
QP52
BA728(1/2)
QP53
2SC1815(GR)
QP51
1SS184
TX METER
QP52
BA728(2/2)
QT60
FMG-1
X8
VOLTAGE NOTAITIONS
( ) ------ TX
[ ] ------ UNLOCK
< > ------ SQL ON
NONMARKING-RX
≪ ≫ ------ ATT ON

ELKOBA


VCO PLL BLOCK
P201 T/R SW
RF AMP
Q011
3SK177(U73)
RF AMP
Q012
2SK508
ATT SW
Q005
2SC2712(GR)
ATT SW
Q006
FMA10
ATT SW
Q004
FMG-1
ATT HI
D001
1SS184
D007
MI105
D008
DAN235K
D009
DAP236K
D010
DAN235K
D101~1SS226
F101
47.05M
Q103
2SK302
Q104
1SS226
U-RX+B
TO P951 (J951)
CTCSS
RPT IN
PLL STB
CLK
GND
N.C
PLL24V
COM+5V
COM+8V
88.5Hz
VU OUT
DATA
U.L
S.15M
GND
MIC IN
J102
Q217
MIC AMP
VU METER AMP
Q204
2SA1036(Q,R)
Q205
2SA1036(Q,R)
Q206
FMG-1
Q207
2SC2712(GR)
Q219
2SC2712(GR)
Q220
2SC2712(GR)
Q221
2SC2712(GR)
Q222
Q223
RN1404
Q224
MA714
Q226
RN1404
TXB
RXB
TR-SW
J201
7.9V
6.4V
(1.0V)
5.6V
(2.5V)
7.9V (0.1V)
R055 - 0
6.4V
0.6V
2.3V
7.3V
7.8V
7.4V
8.0V
(8.0V)
(5.0V) 0V
(7.8V)
3.8V
3.2V
0.9V
0.2V
7.3V
RIPPLE
CT01
0.001
CT02
10p



( )内はC50Dの数値です。