BLOCK DIAGRAM

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CAR FREQUENCY

MODE	FREQUENCY(MHz)
USB	10.6935
CW(R)	10.6935
CW(T)	10.6943
LSB	10.6965

HET FREQUENCY(VCO)

MODE	FREQUENCY(MHz)
FM	133.405 ~138.304
USB / CW	133.4065 ~138.3064
LSB	133.4035 ~138.3034

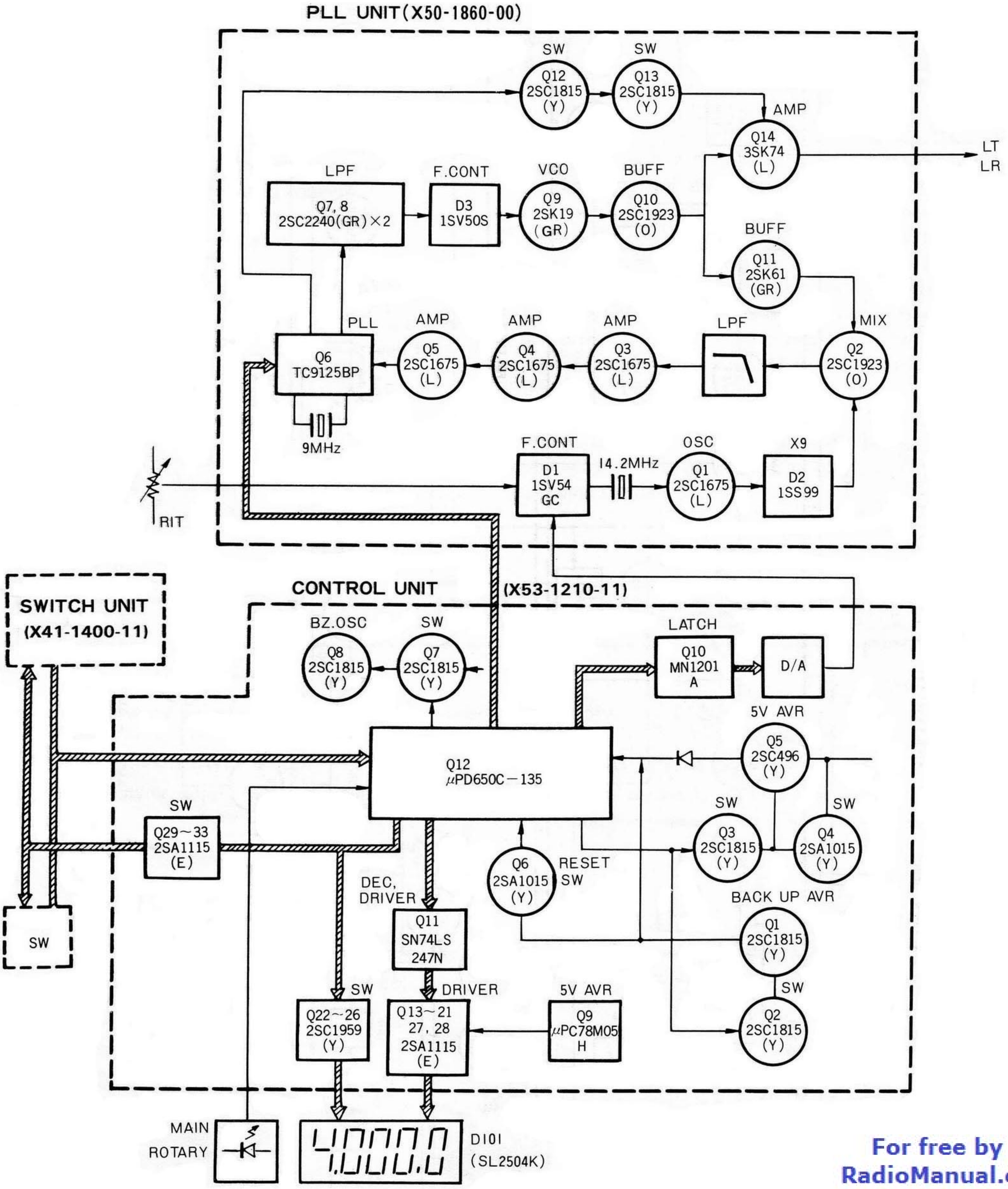
CAR UNIT (X50-1870-11)
BUFF Q2 2SC1675 (L)
OSC Q1 2SC1675 (L)
USB 10.6935MHz
10.6965MHz LSB
CAR
RIT
PLL UNIT (X50-1860-00)
CONTROL UNIT (X53-1210-11)
MAIN ROTARY
DISPLAY 4.000.0
KEY
LT
ANT

DRIVE UNIT (X47-1090-11)
MIC
MIC AMP Q1 2SC2240 (GR)
MIC AMP Q2 TA7061 AP
LPF
FM MOD D1 1S2208
10.695MHz
OSC Q3 2SC1675 (L)
BUFF Q4 2SC1675 (L)
TX MIX Q5,6 2SK61 (GR)X2
BPF
8C AVR 8C
9T AVR 9T
-6V AVR -6V
8R AVR 8R
ST
KL
SW Q21 2SA1015 (Y)
SEMI BREAK 1N
AMP Q7 3SK74 (L)
DRIVE Q8 2SC2538 -22-A
ALC AMP Q9 2SC2603 (E)
ALC

FINAL UNIT(X45-1240-11)
PA Q1 M57727
ANT SW D1 MI402 D2 MI303
LPF
DB AVR
RA
H/L
SW Q3 2SC1815 (Y)
PRO,AMP Q2 2SC1815 (Y)

RX UNIT (X55-1320-11)
SSB MIC GAIN
MIC AMP Q39 2SC2240 (GR)
MIC AMP Q40 2SC2240 (GR)
CAR AMP Q41 2SC1815 (Y)
BM
BUFF Q42 2SK61 (GR)
TX IF AMP Q44 3SK73 (GR)
VOL
SIDE TONE Q37 2SC1775 (E)
AF PA Q38 MB3713
SP
CAR
LR
RA
BPF
RF AMP Q1 3SK76 -O
BPF
1St MIX Q2 3SK74 (L)
D39~42 IN60×4
10.695MHz MCF
NBGATE D7,8 1S1587 X2
10.695MHz SSB
IF AMP Q11 3SK73 (GR)
IF AMP Q12 3SK73 (GR)
IF AMP Q13 3SK73 (GR)
AGC
DET D10~13 IN60×4
AF AMP Q35 2SC1815 (Y)
LPF Q36 2SC1815 (Y)
SM AMP Q18 2SA1015 (Y)
SM AMP Q17 2SK30A (O)
IF AMP Q3,4 2SC1675 (L)X2
2nd MIX Q5 2SC1675 (L)
NB AMP Q7 2SC1675 (L)
NB AMP Q8 2SC1675 (L)
NB SW Q10 2SC1815 (Y)
NB AGC Q9 2SC2603 (E)
AGC SW Q16 2SK30A (GR)
AGC AMP Q15 2SC2603 (E)
BUFF Q14 2SC2603 (E)
RF GAIN
S&RF METER
OSC Q6 2SC1675 (L)
10.24MHz
NOISE AMP Q26 2SC1775 (E)
NOISE AMP Q27 2SC1775 (E)
DC AMP Q28 2SC2603 (E)
SW Q29 2SC2603 (E)
SW Q31 2SC2603 (E)
SW Q32 2SC2603 (E)
LED DRIV Q33 2SA1115 (E)
BUSY
SCR
SW Q30 2SC2603 (E)
BUFF Q19 2SC1675 (L)
MIX Q20 2SC1675 (L)
BQ
455kHz FM
IF AMP Q21 TA7060 P
IF AMP Q22 2SC1675 (L)
IF AMP Q23 2SC1675 (L)
IF AMP Q24 2SC1675 (L)
IF AMP Q25 2SC1675 (L)
DISC L30 CFY 455S
SW Q47 2SC2603 (E)
SW Q34 2SC2603 (E)
SCR
SQL
BQ
RA

BLOCK DIAGRAM



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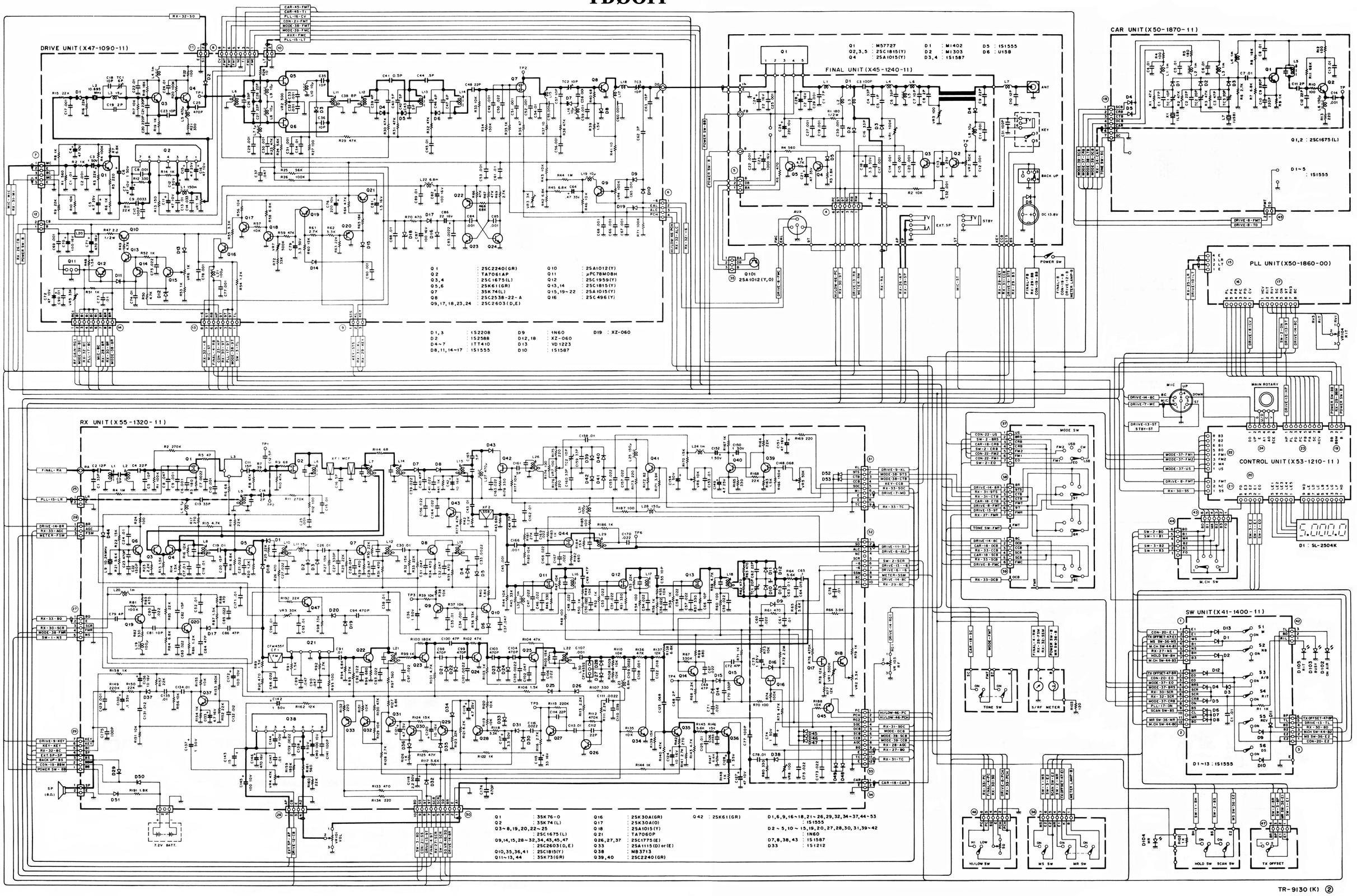
TR-9130 SCHEMATIC DIAGRAM

YDØOIY



SCHEMATIC DIAGRAM

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YDØOIY

CONTROL UNIT
(X53-1210-11)

D1 : XZ-057
D2,5,8~18,20
: 1S1555
D3 : XZ-060
D4 : XZ-070
D7 : MA522(R)

Q1~3,7,8,21,27,34,35
: 2SC1815(Y)
Q4,6,20,28
: 2SA1015(Y)
Q5 : 2SC496(Y)
Q9 : μPC78M05H
Q10 : MN1201A
Q11 : SN74LS247N
Q12 : μPD650C-135
Q13~19,29~33
: 2SA1115(E)or(D)
Q22~26 : 2SC1959(Y)

D101 SL-2504K

PLL UNIT (X50-1860-00)

Q1,3~5 : 2SC1675(L)
Q2,10 : 2SC1923(O)
Q6 : TC91258P
Q7,8 : 2SC2240(GR)
Q9 : 2SK19(GR) TRIO-5
Q11 : 2SK61(GR)
Q12,13,16,18,19 : 2SC1815(Y)
Q14 : 3SK74(L)
Q15 : NJM78L05A
Q17 : 2SA1015(Y)

D1 : 1SV54GC
D2 : 1SS99
D3 : 1SV50S
D4,5 : 1S2588

MEMORY
RF GAIN
RIT
M
NB
A/B
RIT
MODE
USB
FM2
CW
FM1
LSB
POWER/VOL
PUSH ON
SQUELCH
HI
LOW
KENWOOD
2m ALL MODE TRANSCEIVER
ON AIR
BUSY
S&RF
+20dB
TONE
REV
DS
SCAN
HOLD
MS
MR
MIC
TR-9130
POWER
SEND
OFF
REC
KENWOOD SYSTEM BASE BO-9A
PHONES

YDØOIY