ORDER NO. KM49807296A1
F11

Service Manual

Simplified

Telephone Equipment

KX-TCM944-B

(for U.S.A.)

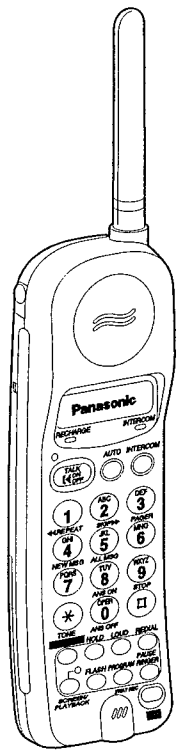
Black Version

900MHz Cordless
Answering System

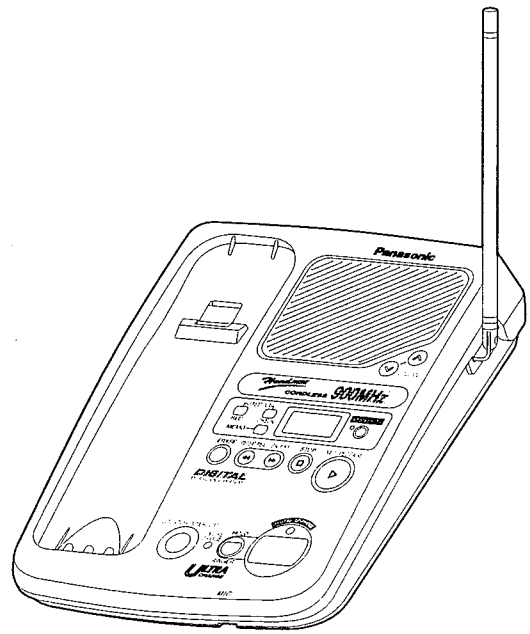
⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians.
Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Please use this manual together with the original Service Manual for model KX-TCM943-B order No. KM49806289C1.
This Service Manual indicates the main differences between: Original KX-TCM943-B and KX-TCM944-B.



(Portable Handset)



(Base Unit)

Panasonic

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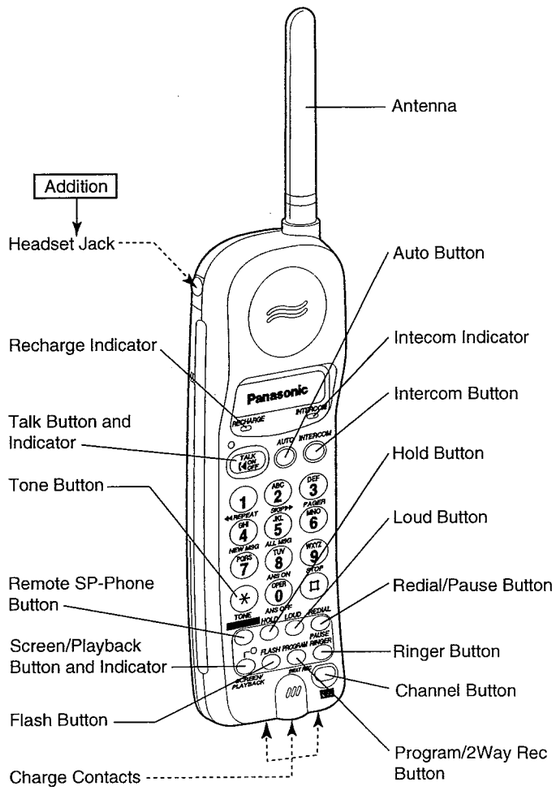
KX-TCM944-B

■ PARTS COMPARISON TABLE (Change from original pages 58~64)

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks
	KX-TCM943-B	**KX-TCM944-B**			
Base Unit					
1	PQKM10334Z1	**PQKM10334W4**	Upper Cabinet	1	
10	PQGT13241Z	**PQGT13297Z**	Name Plate	1	
Portable Handset					
102	PQKF10248Y1	**PQKF10262Z1**	Cabinet Cover	1	
114	----------	**PQGT13298Z**	Name Plate	1	Addition
115	----------	**PQKE10077Z1**	Cap, Headset Jack	1	Addition
PCB100	PQWP943BRWRF	**PQWP944BRWRF**	P.C.Board Ass'y (RTL)	1	
Q206	----------	**PQVTDTC143E**	Transistor (Si)	1	Addition
D217	----------	**MA8150**	Diode (Si)	1	Addition
D219	----------	**MA8150**	Diode (Si)	1	Addition
CN202	----------	**PQJJ1J007Z**	Jack, Headsed	1	Addition
R208	----------	**ERJ3GEYJ103**	Resistor, 10kΩ	1	Addition
R214	ERJ3GEY0R00	----------	Chip Jumper	0	Deletion
R215	----------	**ERJ3GEYJ222**	Resistor, 2.2kΩ	1	Addition
R216	----------	**ERJ3GEYJ103**	Resistor, 10kΩ	1	Addition
R219	ERJ3GEY0R00	----------	Chip Jumper	0	Deletion
R228	----------	**ERJ3GEYJ103**	Resistor, 10kΩ	1	Addition
R237	----------	**ERJ3GEYJ333**	Resistor, 33kΩ	1	Addition
R239	----------	**ERJ3GEYJ153**	Resistor, 15kΩ	1	Addition
R244	----------	**ERJ3GEYJ473**	Resistor, 47kΩ	1	Addition
C212	----------	**ECEA1CKS470**	Capacitor, 47μF	1	Addition
C229	----------	**ECUV1H152KBV**	Capacitor, 0.0015μF	1	Addition
C231	----------	**ECUV1A105ZFV**	Capacitor, 1μF	1	Addition
C242	----------	**ECUV1H101JCV**	Capacitor, 100PF	1	Addition
C252	----------	**ECUV1H101JCV**	Capacitor, 100PF	1	Addition
C254	----------	**ECUV1H822KBV**	Capacitor, 0.0082μF	1	Addition
C263	----------	**ECUV1H101JCV**	Capacitor, 100PF	1	Addition
Accessories					
A5	PQQW11926Z	**PQQW11989Z**	Quick Reference Guide (for English)	1	
A5	PQQW11927Z	**PQQW11990Z**	Quick Reference Guide (for Spanish)	1	
A6	PQQX11901Z	**PQQX12024Z**	Instruction Book	1	
A7	----------	**PQKE10074Z1**	Belt Cjip	1	Addition
Packing Materials					
P5	PQPK12501Z	**PQPK12608Z**	Gift Box	1	

■ LOCATION OF CONTROLS (Change from original page 4)

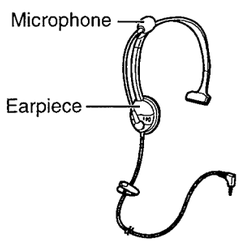
Portable Handset



(Model KX-TCM944-B)

■ USING THE OPTIONAL HEADSET

Plugging an optional headset into the handset provides a handsfree phone conversation. Please use only a Panasonic KX-TCA80 or KX-TCA90 headset.



This illustration is a KX-TCA80.

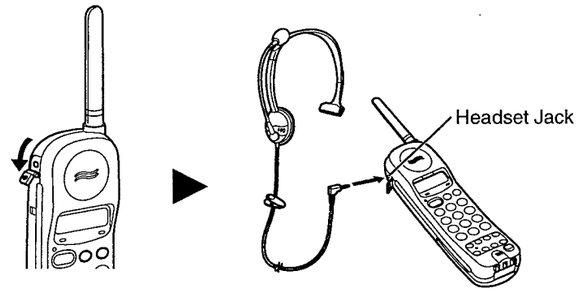
When an optional headset is connected to the handset, be sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

(Model KX-TCM944-B)

KX-TCM944-B

■ CONNECTING AN OPTIONAL HEADSET TO THE HANDSET

Open the headset jack cover, then connect an optional headset to the headset jack as shown.



(Model KX-TCM944-B)

■ HOW TO WEAR AN OPTIONAL HEADSET

1 Place the headset on your head and attach the clothing clip to the desired position.



2 Adjust the microphone to a comfortable position.

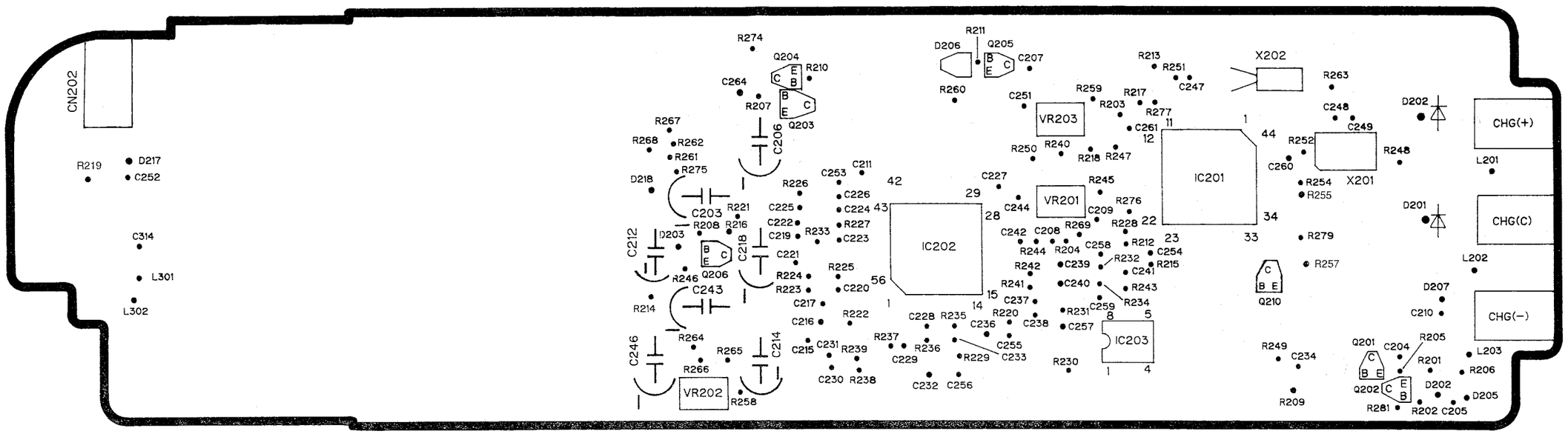
- Place the microphone near your mouth.



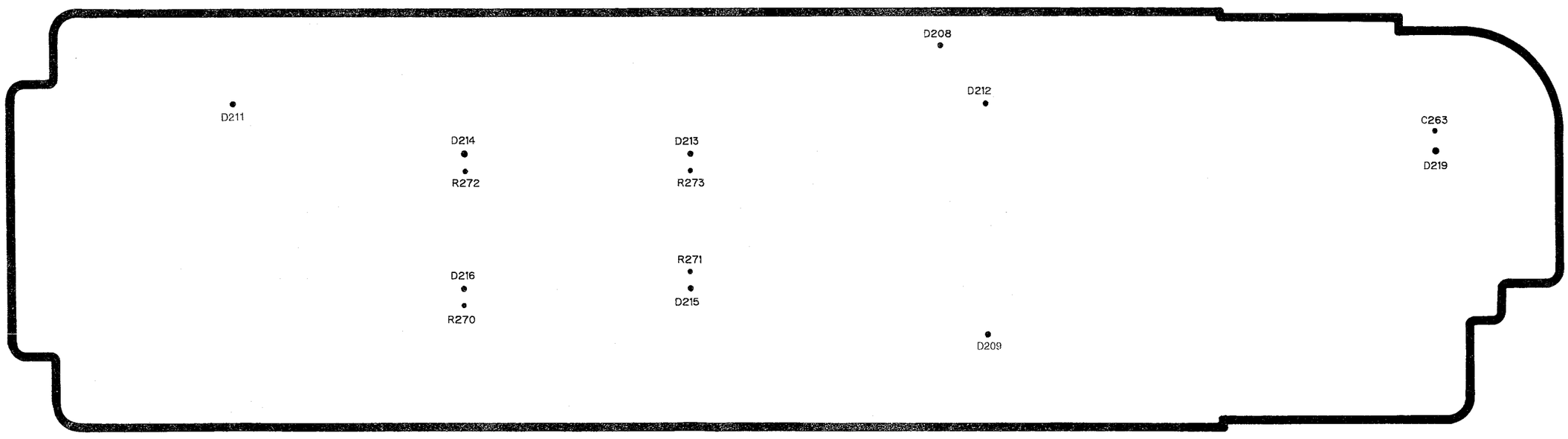
(Model KX-TCM944-B)

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (Portable Handset)

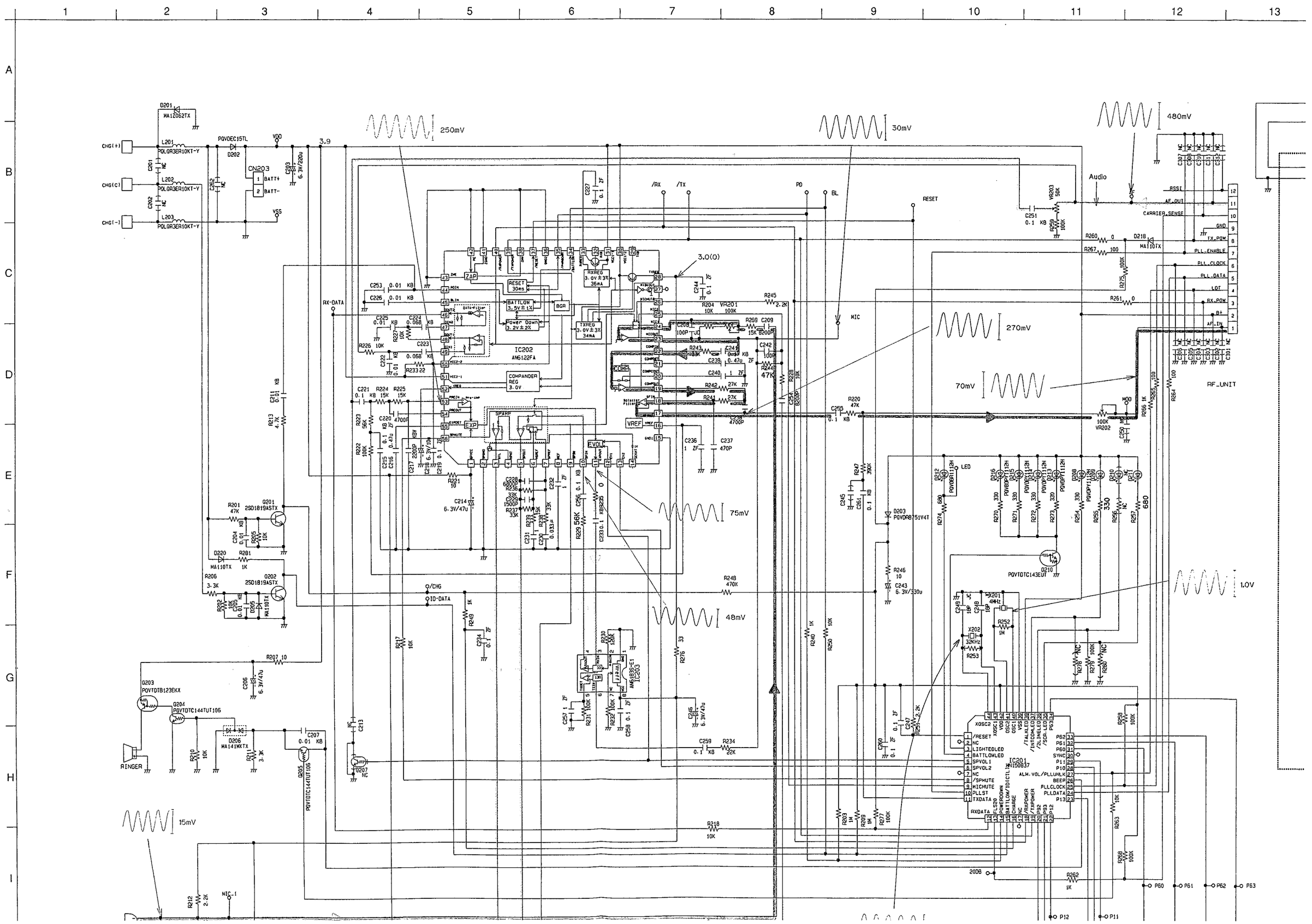
(Flow Solder Side View)

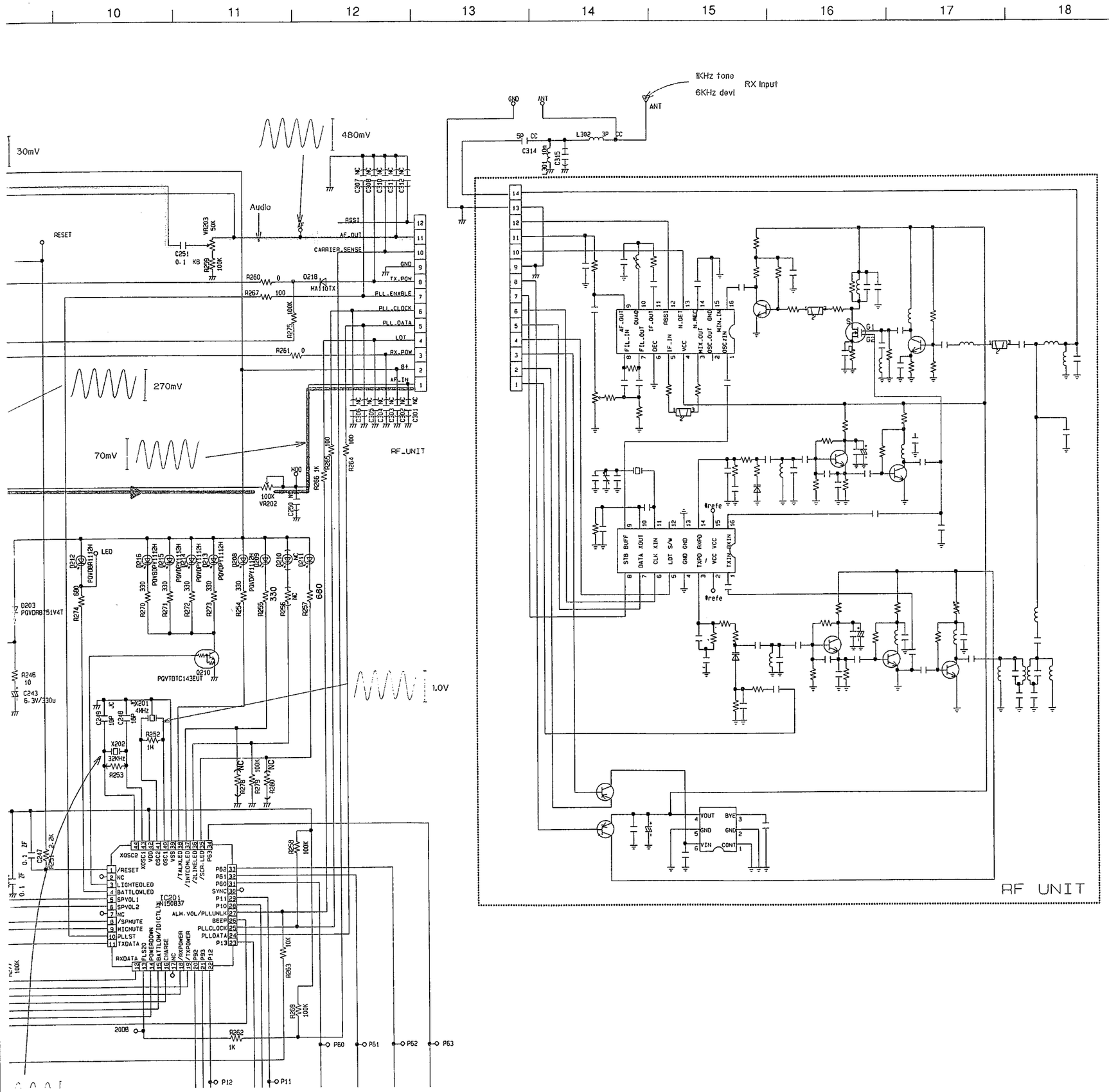


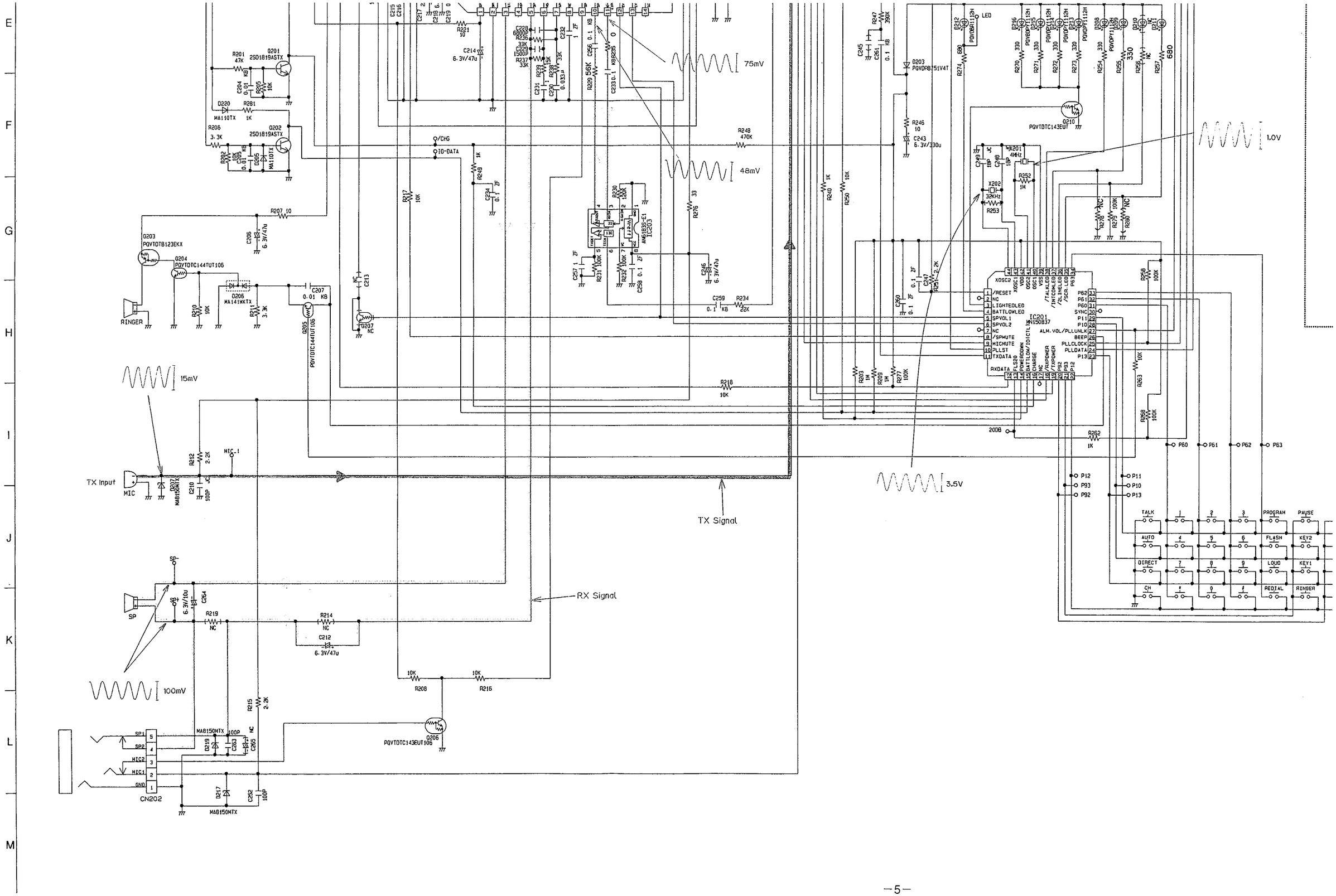
(Component View)

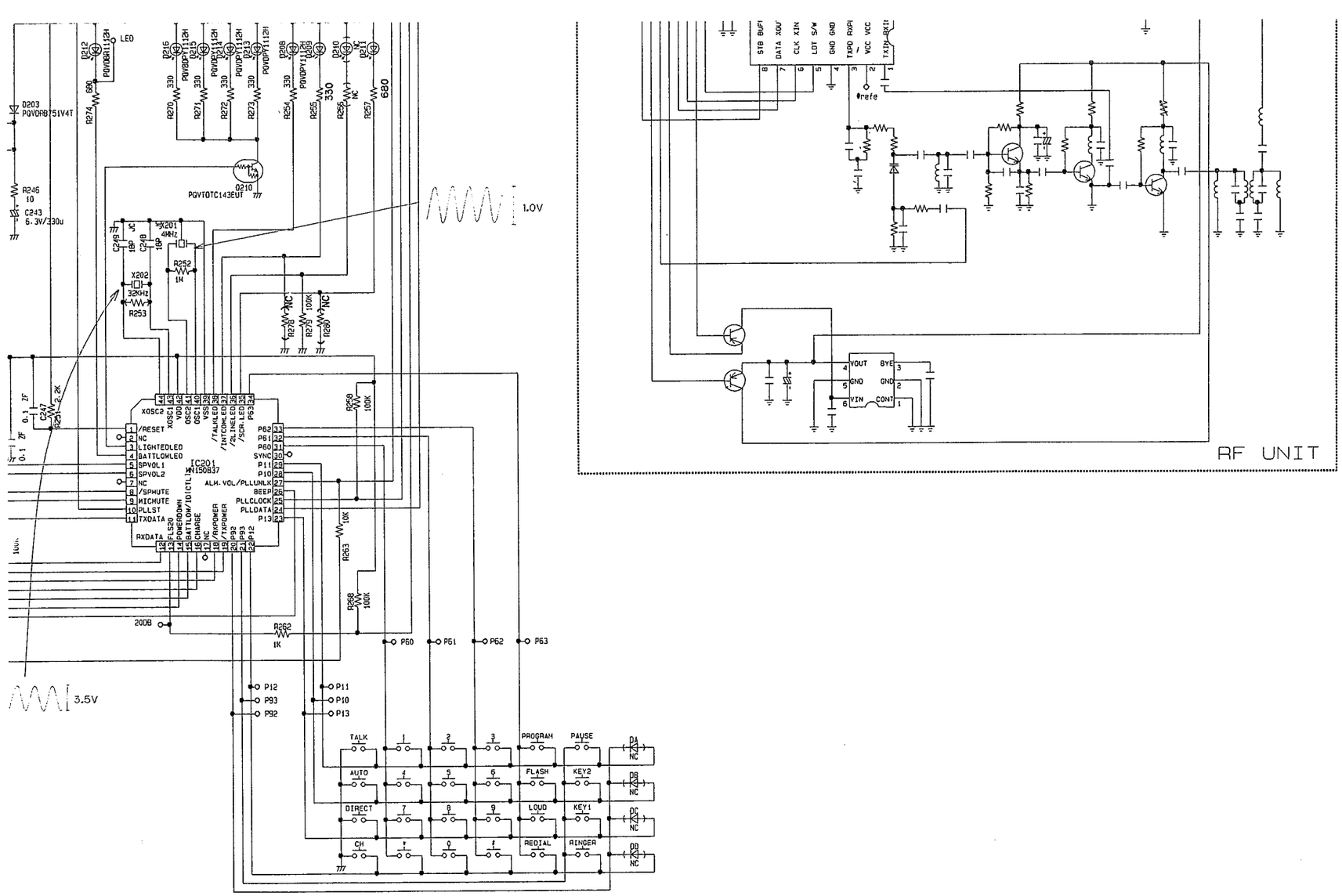


SCHEMATIC DIAGRAM (Portable Handset)

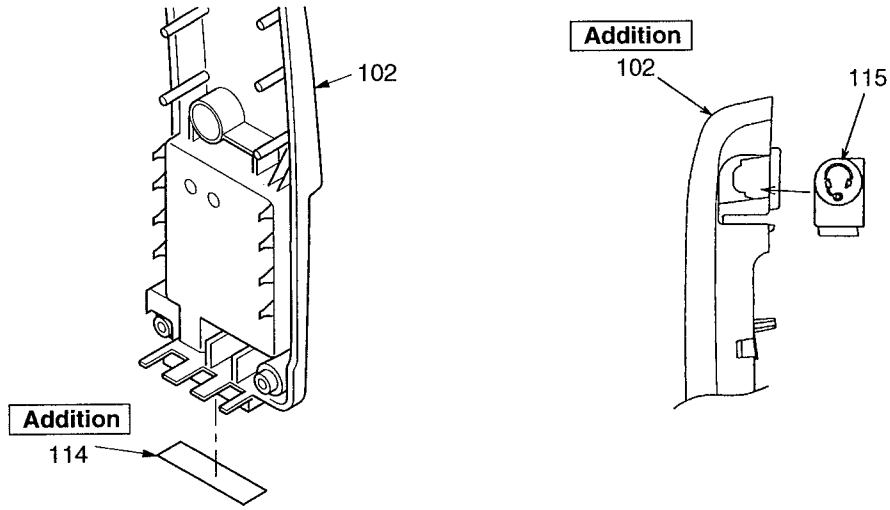



10
11
12
13
14
15
16
17
18
30mV
480mV
270mV
70mV
1.0V
Audio
RESET
RSSI
AF_OUT
CARRIER_SENSE
GND
TX_POW
PLL_ENABLE
PLL_CLOCK
PLL_DATA
LOT
RX_POW
BT
AF_IN
RF_UNIT
LED
D203 PQVDR8751V4T
IC201 MN150837
XOSCI
XOSCO
/RESET
LIGHTEDLED
BATTLOWLED
SPVOL1
SPVOL2
/SPMUTE
MICMUTE
PLLST
TXDATA
RXDATA
POWERDOWN
BATTLOW/ID1CTL
CHARGE
/RXPOWER
/TXPOWER
ALM. VOL/PLLUNLK
BEEP
PLLCLOCK
PLLDATA
X201 4MHz
X202 32KHz
1KHz tone
6KHz devi
RX Input
ANT
GND
RF UNIT


Q201 2SD1819ASTX
Q202 2SD1819ASTX
D220 MA110TX
D221 MA110TX
Q203 PQVTDTB123EKX
Q204 PQVTDTC144TUT106
Q205 PQVTDTC144TUT106
D206 MA141WKTX
RINGER
Q207 NC
/CHG
IO-DATA
75mV
48mV
IC203 AN6135-E1
15mV
MIC
TX Input
MA8150MTX
TX Signal
RX Signal
100mV
SP
CN202
SP1
SP2
MIC2
MIC1
GND
Q206 PQVTDTC143EUT106
1.0V
3.5V
X201 4MHz
X202 32KHz
IC201 MN150837
XOSC2
XOSC1
/RESET
LIGHTEDLED
BATTLOWLED
SPVOL1
SPVOL2
/SPMUTE
MICMUTE
PLLST
TXDATA
RXDATA
ALM. VOL/PLLUNLK
BEEP
PLLCLOCK
PLLDATA
SYNC
LED
20DB
P60
P61
P62
P63
P12
P93
P92
P11
P10
P13
TALK
AUTO
DIRECT
CH
PROGRAM
PAUSE
FLASH
KEY2
LOUD
KEY1
REDIAL
RINGER

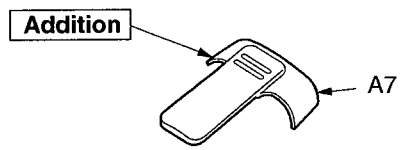

LED
D203 PQVDR8751V4T
R246 10
C243 6.3V/330u
X201 4MHz
X202 32KHz
R252 1M
R253
R278 NC
R279 100K
R280 NC
R259 100K
R263 10K
R262 1K
R258 100K
C247 0.1 2F
C251 0.1 2F
2K
100K
200B
IC201 M150837
XOSC2
/RESET
NC
LIGHTEDLED
BATTLOWLED
SPVOL1
SPVOL2
/SPMUTE
MICMUTE
PLLST
TXDATA
RXDATA
/TALKLED
/INTCOMLED
/2.1NELED
/SCM
SYNC
ALM.VOL/PLLUNLK
BEEP
PLLCLOCK
PLLDATA
P60 P61 P62 P63
P12 P93 P92 P11 P10 P13
1.0V
3.5V
TALK 1 2 3 PROGRAM PAUSE DA
AUTO 4 5 6 FLASH KEY2 DB
DIRECT 7 8 9 LOUD KEY1 DC
CH * 0 # REDIAL RINGER DD
777
STB DATA CLK LOT GND TXPO VCC TXIN
refe
VOUT GND VIN BYE GND CONT
RF UNIT

■ CABINET AND ELECTRICAL PARTS (Portable Handset) [Change from original page 56]



(Model KX-TCM944-B)

■ ACCESSORIES AND PACKING MATERIALS [Change from original page 57]



(Model KX-TCM944-B)

K, (Q),
KXTCM944B
Printed in Japan