ORDER NO. KM49807293A2

Service Manual

Simplified

Telephone Equipment

KX-TCD950E-B

(for United Kindom)

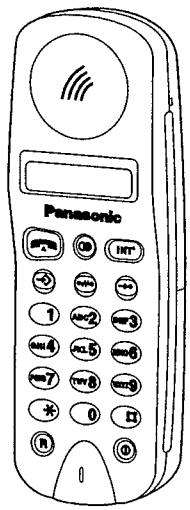
Digital Cordless Phone

Black Version

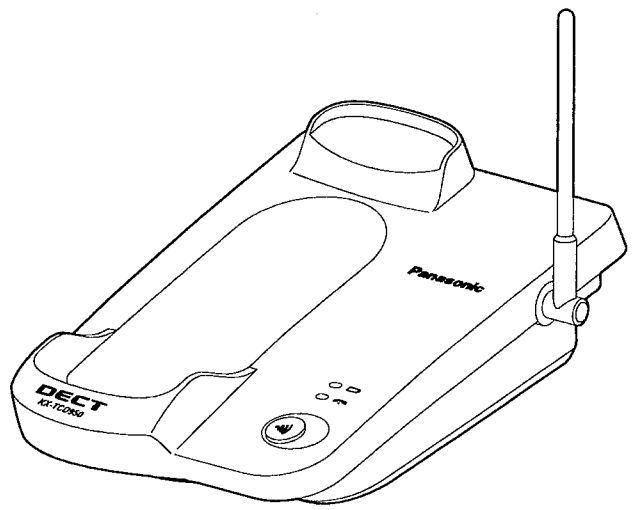
⚠ WARNING

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-TCD950G-B order No. KM49804246C2.
This Service Manual indicates the main differences between: Original KX-TCD950G-B and KX-TCD950E-B.



(Handset)



(Base Unit)

Panasonic

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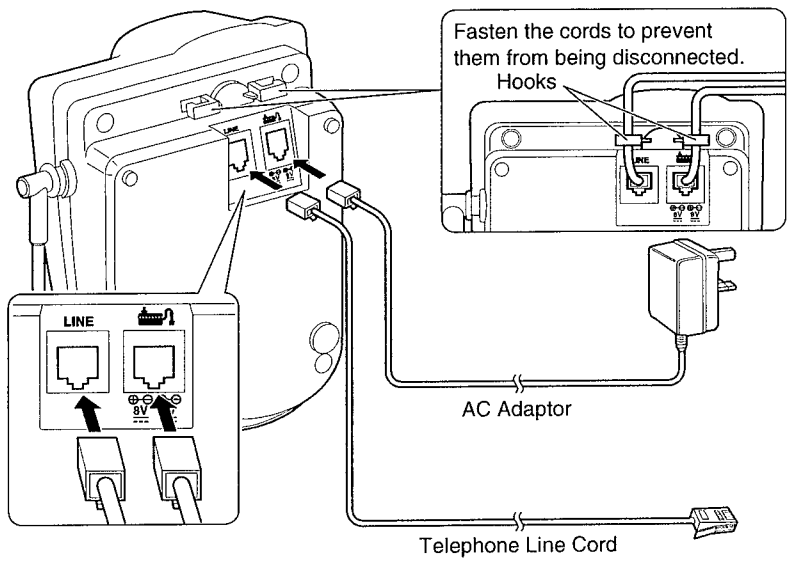
KX-TCD950E-B

■ PARTS COMPARISON TABLE (Change from original pages 75~80)

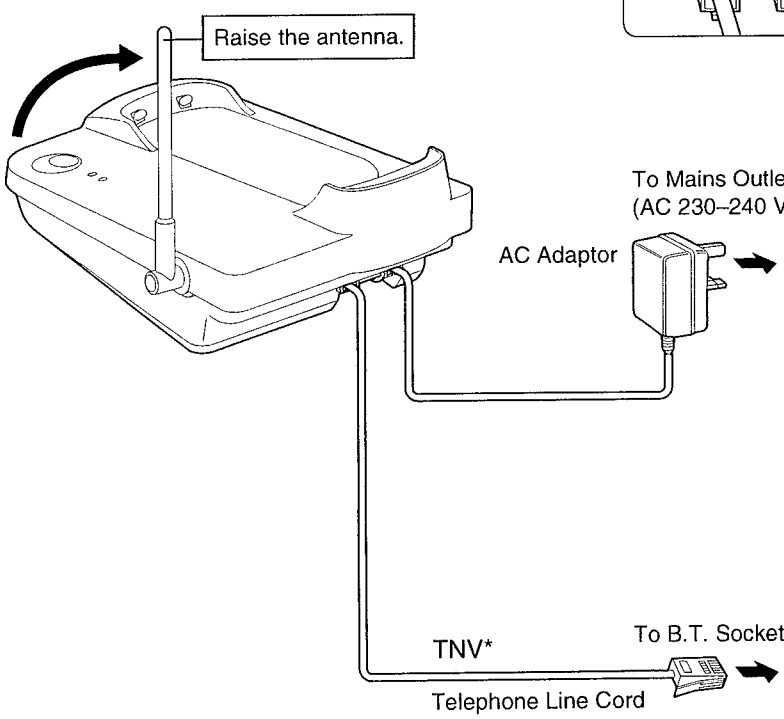
Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks
	KX-TCD950G-B	**KX-TCD950E-B**			
Handset					
14	-------	**PQGT13030Y**	Name Plate (for Rear Cabinet)	1	Addition
Accessories					
A1	KX-TCA9CE	**KX-TCA9E**	AC Adaptor	1	
A2	PQJA218Z	**PQJA87S**	Telephone Cord	1	
A4	PQYNTCD950G	**PQYNTCD950E**	Battery Cover	1	
A6	PQQX11869Z	**PQQX12030Z**	Instruction Book	1	
Packing Materials					
P3	PQPN10621Z	**PQPN10650Z**	Accessory Box	1	
P4	PQPK12443Z	**PQPK12443Y**	Gift Box	1	

■ CONNECTIONS (Change from original page 6)

1 Plug in the AC adaptor cord and the telephone line cord to the bottom of the unit.



2 Connect the cord as shown.



- USE ONLY Panasonic AC ADAPTOR KX-TCA9E.
- Be sure not to confuse the telephone line jack with the AC adaptor jack on the base unit. If connected improperly, the base unit will not work and damage may occur.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)

* ● The abbreviation TNV means "Telephone Network Voltage".

CONNECTION OF POWER SUPPLY

This apparatus is intended for use when powered by the KX-TCA9E. Using other power supplies will invalidate any approval given to this apparatus.

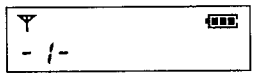
(Model KX-TCD950E-B)

■ LOCATION OF CONTROLS (Change from original page 4)

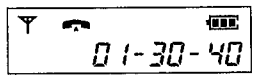
Handset Display



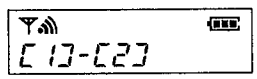
(This display shows all of the possible configurations.)



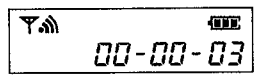
The handset is in the stand-by mode. The base unit number is displayed.
You can select displaying either the base unit number, handset number or no display by programming.



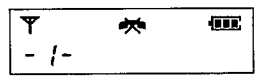
The display shows the length of the call during a conversation. (Ex: 1 hour, 30 minutes, and 40 seconds.) You can select displaying either the length of the call or dialled telephone number display by programming.



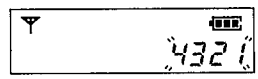
The paging and paged handset numbers are displayed.
(Ex. Handset 1 is paging handset 2.)



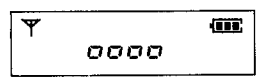
The length of the intercom call between the handsets is displayed.



When you press [Talk] (Talk), " " is displayed. The call prohibition mode is set to ON.



When dialing, the dialed phone number flashes. The dialed number is a restricted number.



The key lock mode is ON.

(Model KX-TCD950E-B)

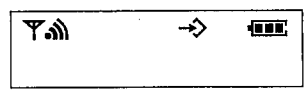
■ OPERATION (Change from original page 11)

SETTING THE RECEIVER VOLUME

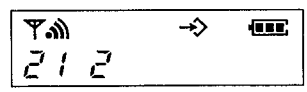
ON THE BASE UNIT

You can program the base unit ringer volume (3 levels) according to your needs.
The lowest setting is 1 and the highest setting is 3. The factory preset is 2.

1 Press [→] (Program), then [INT'] (Intercom).

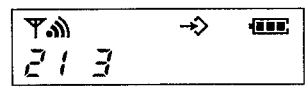


2 Press [2], then [1].
- The current base unit ringer volume is displayed.



Ex. 3 is selected.

3 Press a button [1] through [3] to select the ringer volume.
- The selected ringer volume is displayed and rings.



4 When finished, press [→] (Program).
- A confirmation tone sounds.

⬇

Deletion

(Model KX-TCD950E-B)

ADDITIONAL OPERATION

Using the Recall Feature

[R] (Recall) is used to access special telephone services (optional) such as call waiting. Contact your telephone company business office for details.

Example: British Telecom call waiting

When a call waiting tone is heard during a conversation:

a) **To hold the existing call and accept the waiting call**
Press [R] (Recall).
• Each time you press [R] (Recall), you can switch between the first and second call.

b) **To accept the waiting call and hang up the existing call**
Press [☎] (Talk). When the unit rings, press [☎] (Talk) to answer the new call.

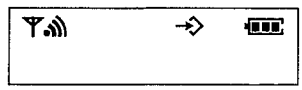
c) **To reject the waiting call**
Wait for the call waiting to time out. This will take about 40 seconds.

If your unit is connected to a PBX, pressing [R] (Recall) allows you to access some features of your host PBX such as transferring an extension call.

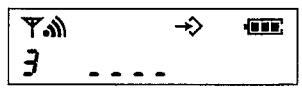
Setting the FLASH/EARTH mode

If your unit is installed behind a PBX with an earth function, you must select the earth mode. The factory preset is "1" (FLASH).

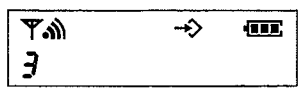
1 Press [→] (Program), then [INT'] (Intercom).



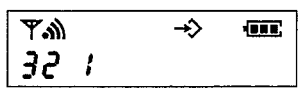
2 Press [3].



3 Enter the base unit password.

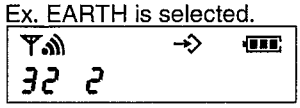


4 Press [2].
• The current setting is displayed.



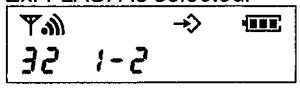
5 To select "EARTH", press [2].
OR
To select "FLASH", press [1], then [2].

Ex. EARTH is selected.



OR

Ex. FLASH is selected.



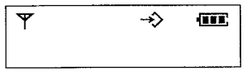
6 When finished, press [→] (Program).
• A confirmation tone sounds.

Call Prohibition

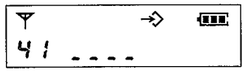
You can prohibit anyone from making a call with your handset except for emergency calls (999, 112).
Only incoming calls are accepted. The factory preset is 0 (OFF).

Setting the Call Prohibition Mode

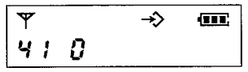
1 Press [→] (Program).



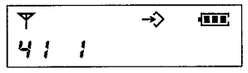
2 Press [4], then [1].



3 Enter the handset password.
- The current setting is displayed.



4 Press [1] (ON).



5 When finished, press [→] (Program).
- A confirmation tone sounds.
- " " is displayed.
- The unit will switch to the call prohibition mode.



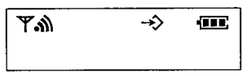
Clearing the Settings in Memory

On the base unit

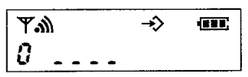
This function enables the base unit to clear the following setting at one time.
All settings will return to the default settings (shown in brackets).

- Bell selection 1 (All)
- Dialling mode 1 (TONE)
- Pause timing 1 (3 seconds)
- Call restricted handset(s) (All clear)
- Call restriction number(s) (All clear)
- Base unit password (0000)
- FLASH/EARTH mode 1 (FLASH)

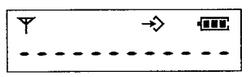
1 Press [→] (Program), then [INT'] (Intercom).



2 Press [0].



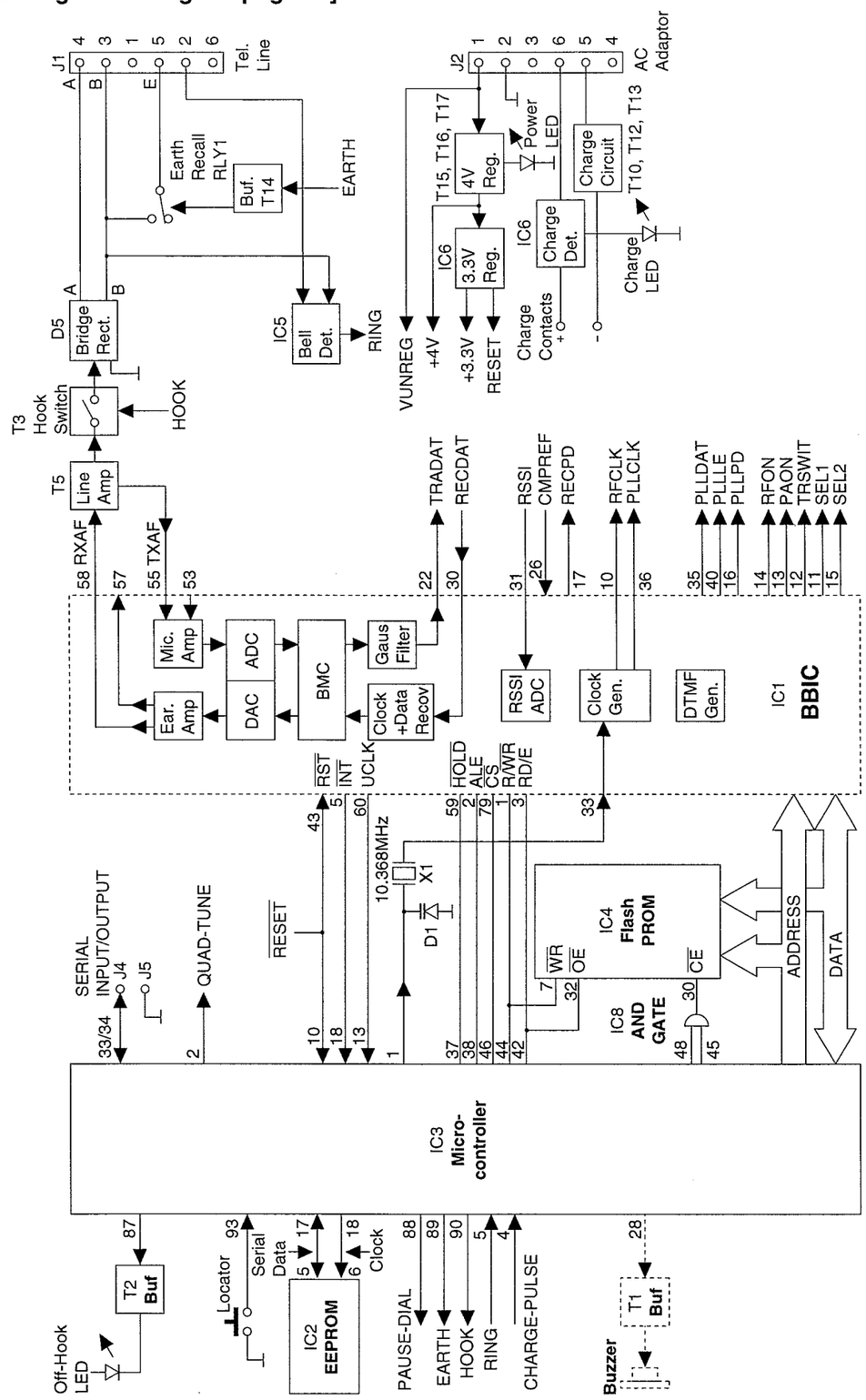
3 Enter the base unit password.



4 When finished, press [→] (Program).
- A confirmation tone sounds.

KX-TCD950E-B

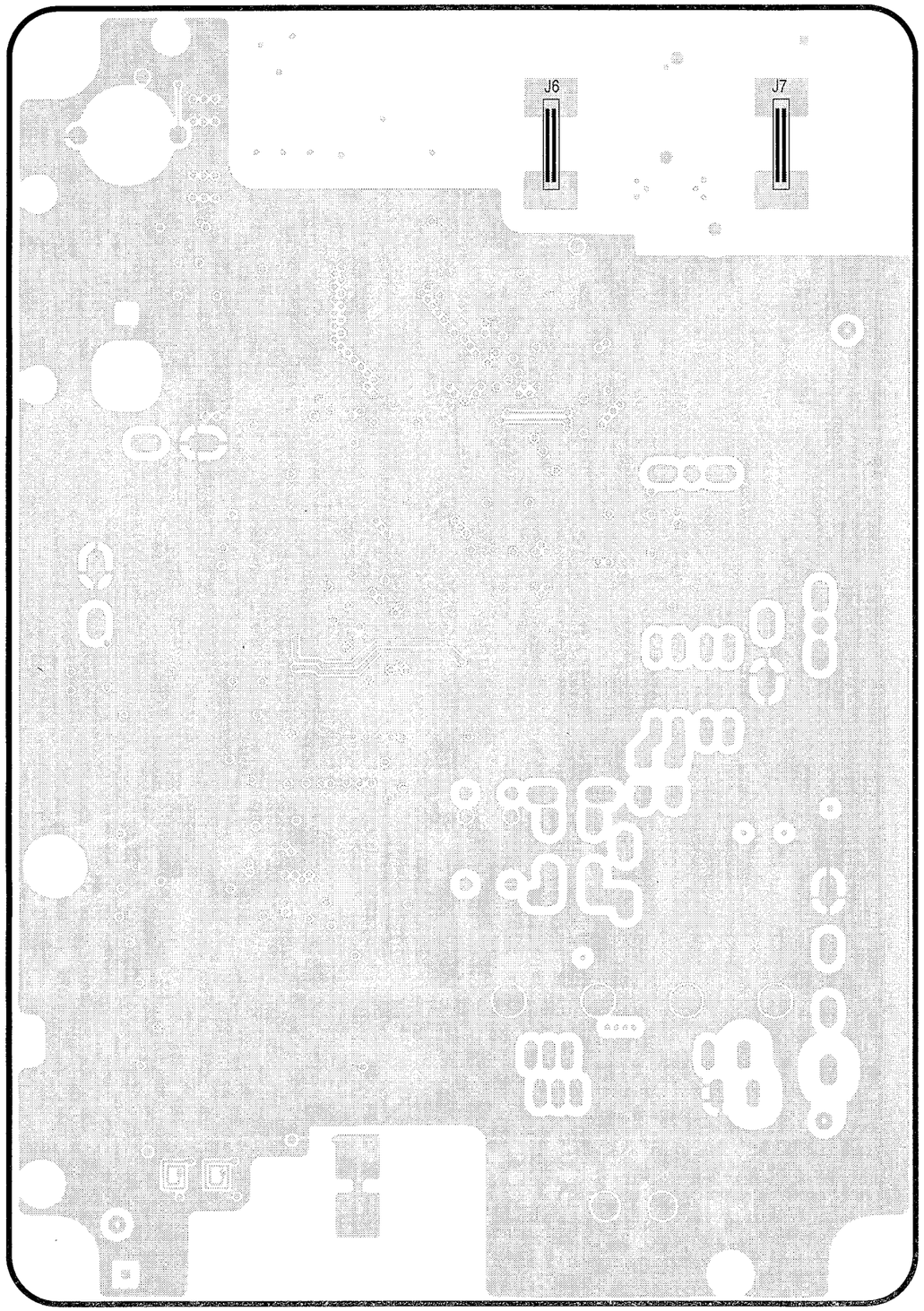
■ BLOCK DIAGRAM BASEBAND SECTION AND LINE INTERFACE (ASE UNIT) [Change from original page 24]



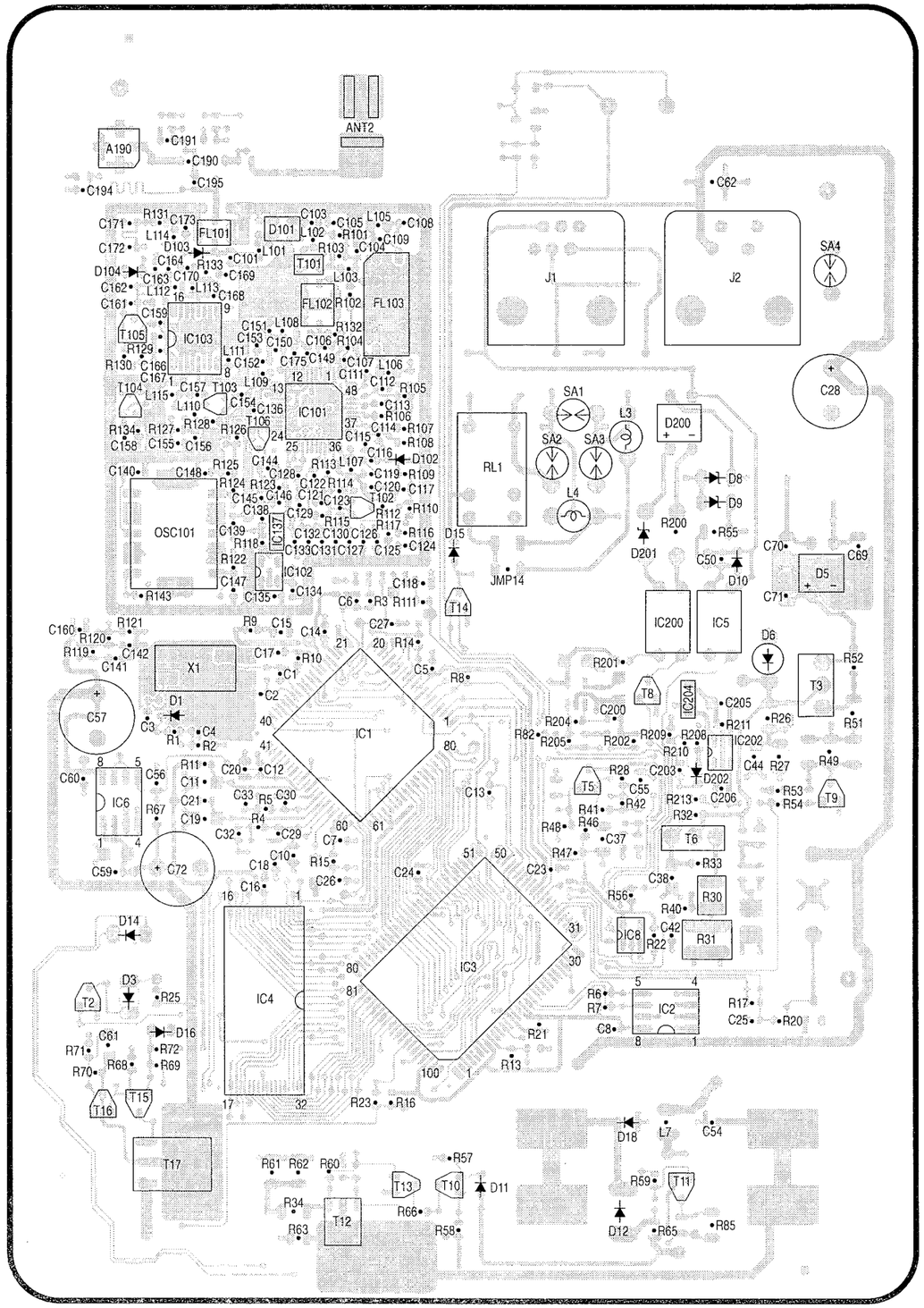
KX-TCD950E-B

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (BASE UNIT)

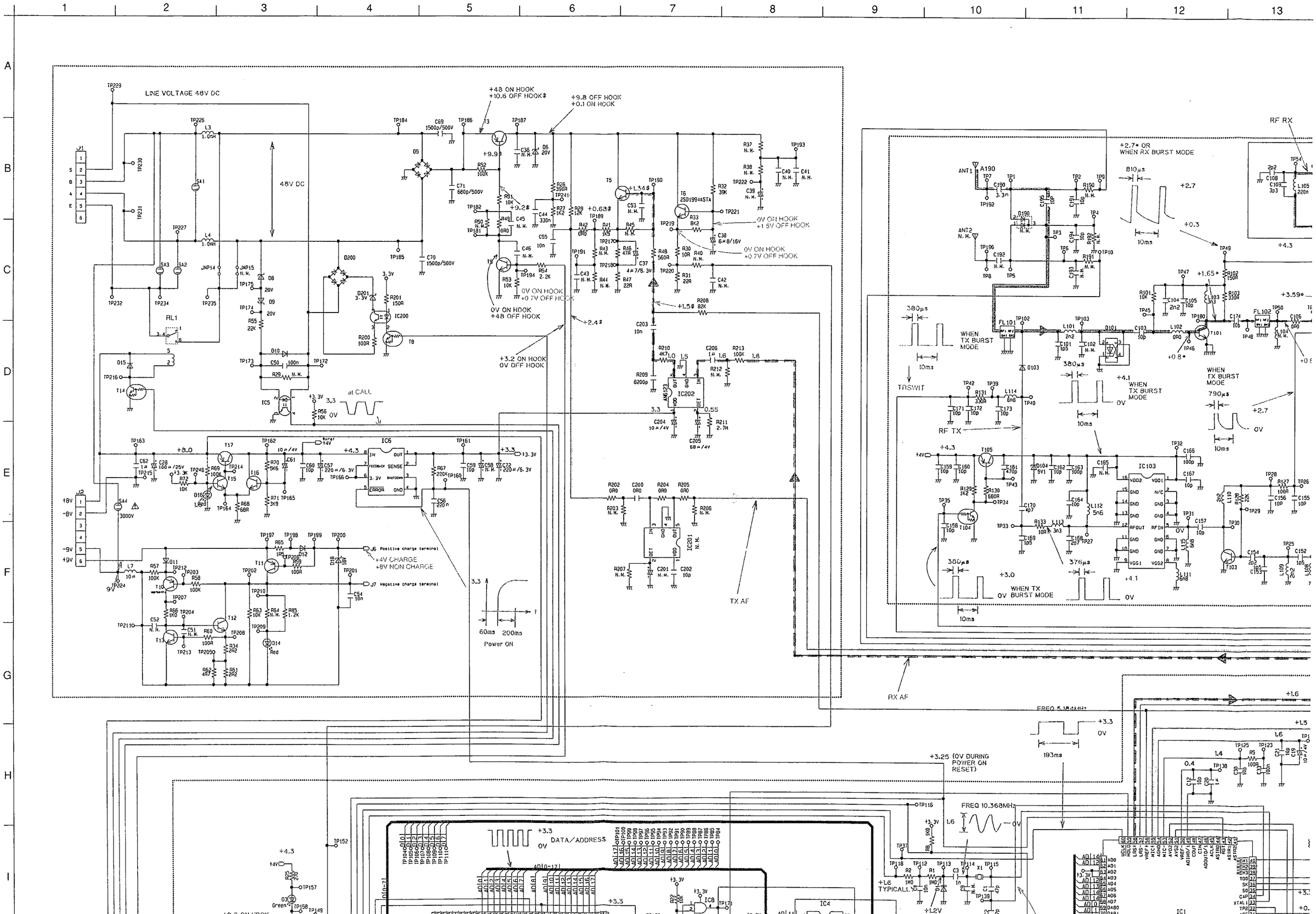
(Component View)

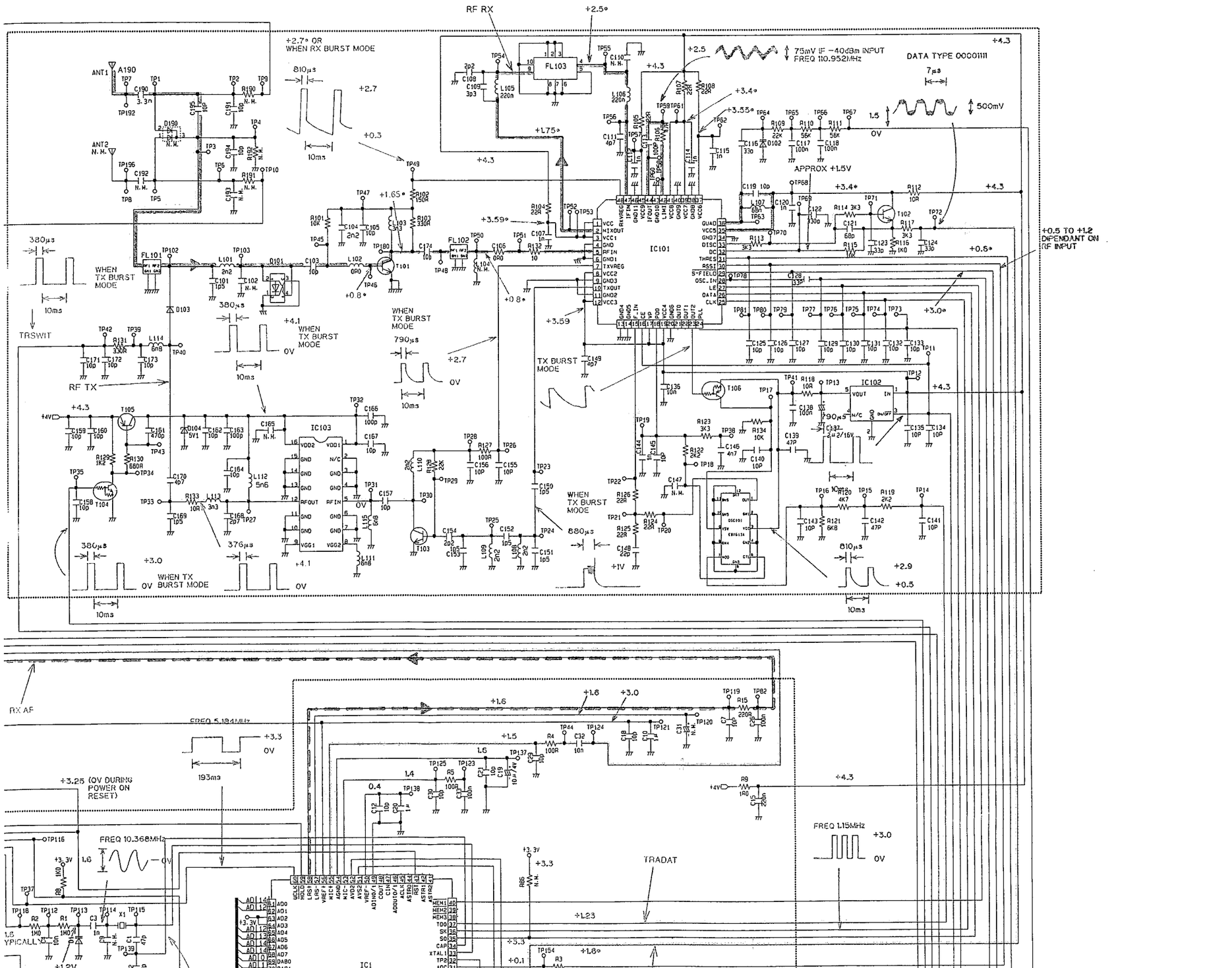


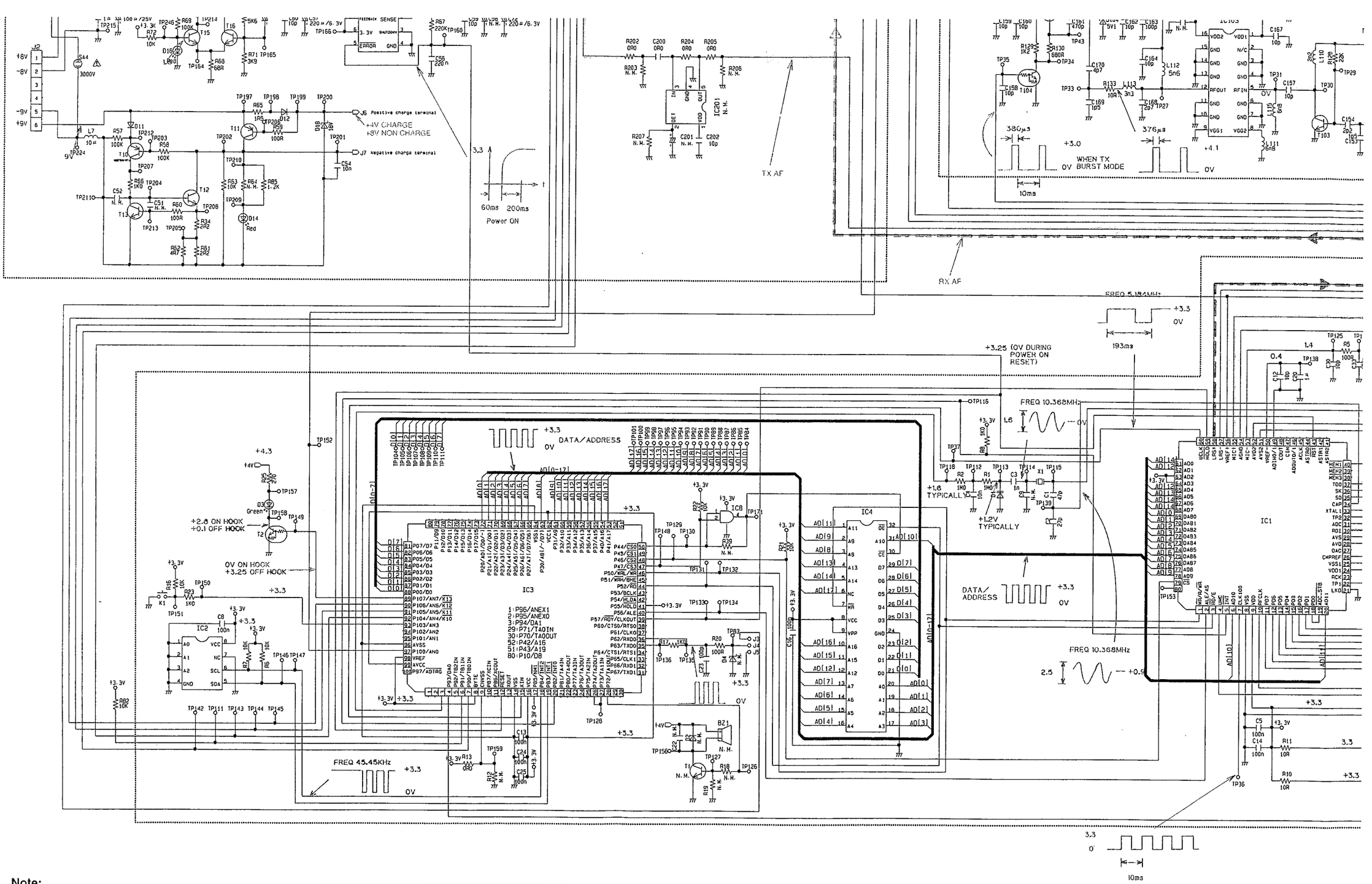
(Flow slder Side View)



SCHEMATIC DIAGRAM (BASE UNIT)




RF RX
+2.5*
+2.7* OR WHEN RX BURST MODE
810µs
+2.7
+0.3
10ms
ANT1
A190
ANT2 N.M.
FL103
FL101
FL102
IC101
IC102
IC103
IC1
TP49
+4.3
+2.5
75mV IF −40dBm INPUT FREQ 110.952MHz
DATA TYPE 00001111
7µs
500mV
APPROX +1.5V
+3.4*
+3.55*
+1.75*
+3.59*
+1.65*
+0.8*
+0.5 TO +1.2 DEPENDANT ON RF INPUT
+0.6*
+3.0*
380µs
WHEN TX BURST MODE
TRSWIT
RF TX
+4.1
790µs
+2.7
0V
TX BURST MODE
+3.59
WHEN TX BURST MODE
880µs
+1V
+3.0
WHEN TX 0V BURST MODE
376µs
+4.1
810µs
+2.9
+0.5
RX AF
FREQ 5.184MHz
+3.3
193ms
+3.25 (0V DURING POWER ON RESET)
FREQ 10.368MHz
1.6
+1.2V TYPICALLY
TRADAT
+1.23
+1.8*
+0.1
FREQ 1.15MHz
+3.0
0V



Note:

1. DC voltage measurements are taken with electronic voltmeter from negative voltage line.

Important Safety Notice:
Components identified by ⚠ mark have special characteristics impotant for safety. When replacing any of these components, use only manufacturer's specified parts.

This schematic diagram may be modified at any time with development of new technology.

dified at
echnology.

■ CIRCUIT OPERATION (BASE UNIT) [Change from original pages 29~31]

3. THE LINE INTERFACE SECTION (SEE BLOCK DIAGRAM Fig. 27)

3.1 INTRODUCTION

This section consists of the telephone line interface, bell detecter, charge-pulse detector, hookswitch, pulse dialing circuits, audio circuits, DC mask & line impedance circuits, power supplies, and battery charger circuits.

3.2 TELEPHONE LINE INTERFACE (SEE Fig. 30)

The telephone line is connected (via 2 or 3 jumpers selected for country of destination) to an EMC filter consisting of L3, L4, C47, and C48. Surge suppressors SA1, SA2, and SA3 protect against excessive line voltages. Test points are TP226 (A), TP227 (B) and TP234 (E). A 16 kHz notch filter L1, L2, C34, and C35 blocks the 16 kHz "chargepulse" signal from the rest of the line input circuitry. Bridge rectifier D5 provides for lines of either polarity. The output of D5 is "Line +" (TP186) and "Line -" which is ground.

3.3 EARTH RECALL (SEE Fig. 30)

For countries that require Earth Recall facilities, relay RLY1 is provided to short the E line to the A or B lines. The relay is energised when transistor T14 is switched on by a high level on the **EARTH** control line (TP144) from the microprocessor IC3. D15 will quench the large back-emf voltage that would otherwise occur across the relay coil when T14 turns off.

3.4 BELL DETECTER (SEE Fig. 30)

The AC ringing signal is detected by optocoupler IC5, using its internal diode in conjunction with D10. The other components D8, D9, and R84 reduce current and increase the circuit impedance in line with national requirements. When ringing is detected IC5 will turn on, and the RING line (TP142) will be dragged to a low voltage.

Circuit Diagram

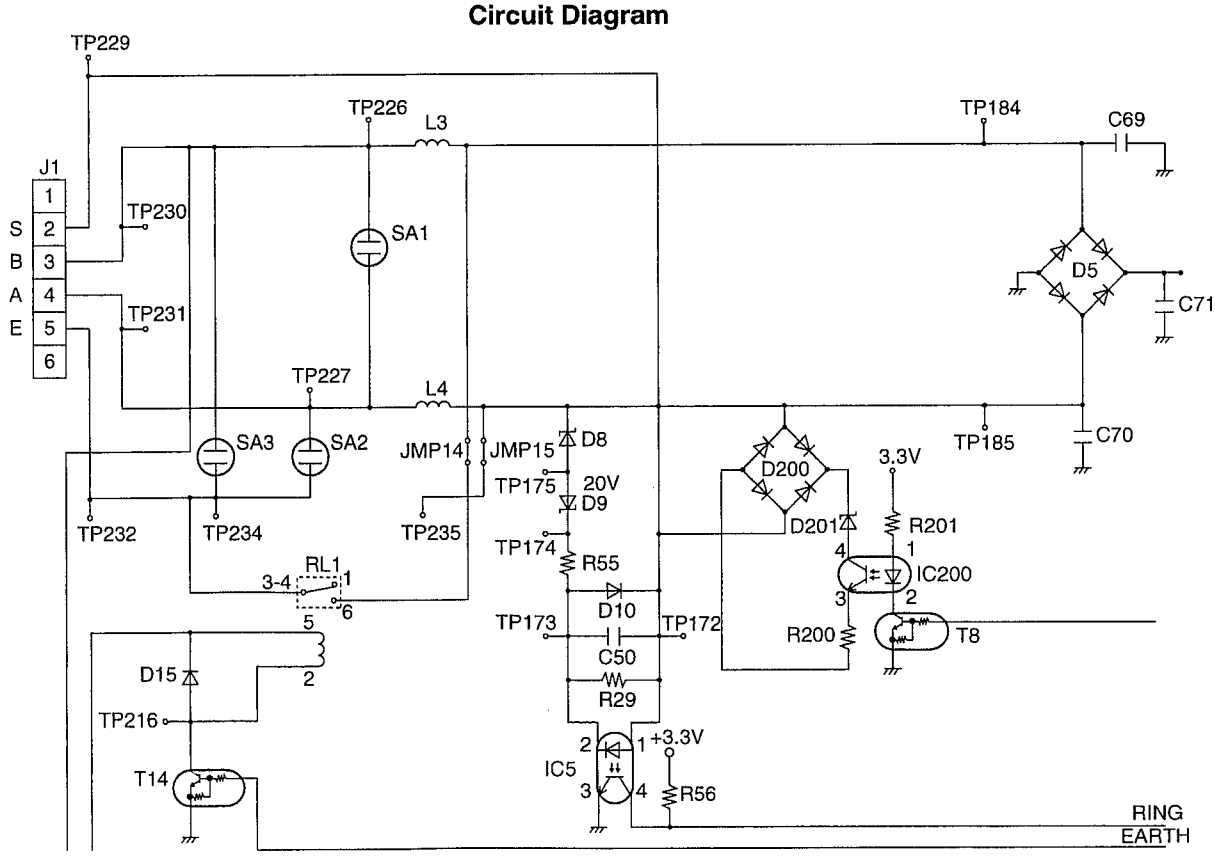


Fig. 30

3.5 CHARGE PULSE DETECTOR (SEE Fig. 30)

Deletion

3.6 HOOKSWITCH (AND PULSE DIALING) (SEE Fig. 31)

T3 is the hookswitch, driven by T4, which in turn is driven by T9. When the phone is "off-hook", the **HOOK** control signal (TP143) from the BBIC will be a high logic level (+3.3V), and all three transistors will be on, thus T3 will "loop" the line. The zenner diode D6 protects transistors T5 to T8 against transient line voltages.

3.7 PULSE DIALING (SEE Fig. 31)

During pulse dialing the hookswitch (T3, T4, T9) is used to generate the pulses using the **HOOK** control signal (TP143), which is set high during pulses. To force the line impedance low during the "pause" intervals between dial pulses, the **PAUSE-DIAL** signal (TP145) turns on T8, which turns on T7, which turns on T6 harder (increases current), thus reducing line impedance (see section 3.9)

3.8 AUDIO CIRCUITS (SEE Fig. 31)

The line output signal from the BBIC **RXAF** (TP82) is amplified by T5. The **RXAF** line is DC coupled to T5 thus making it work as a current limiter (typically < 8mA). The emitter load of T5 is complex to achieved the correct frequency response, since the line load (for Germany) is also complex.

The line input signal **TXAF** (TP124) is taken from the junction of R28 and R42/41. Phase cancellation of the line output audio occurs at this point, so that only incoming line audio should be passed to the BBIC on **TXAF**. In order to be able to compensate for long lines, R42, R43, R44, and C43 can be added.

Circuit Diagram

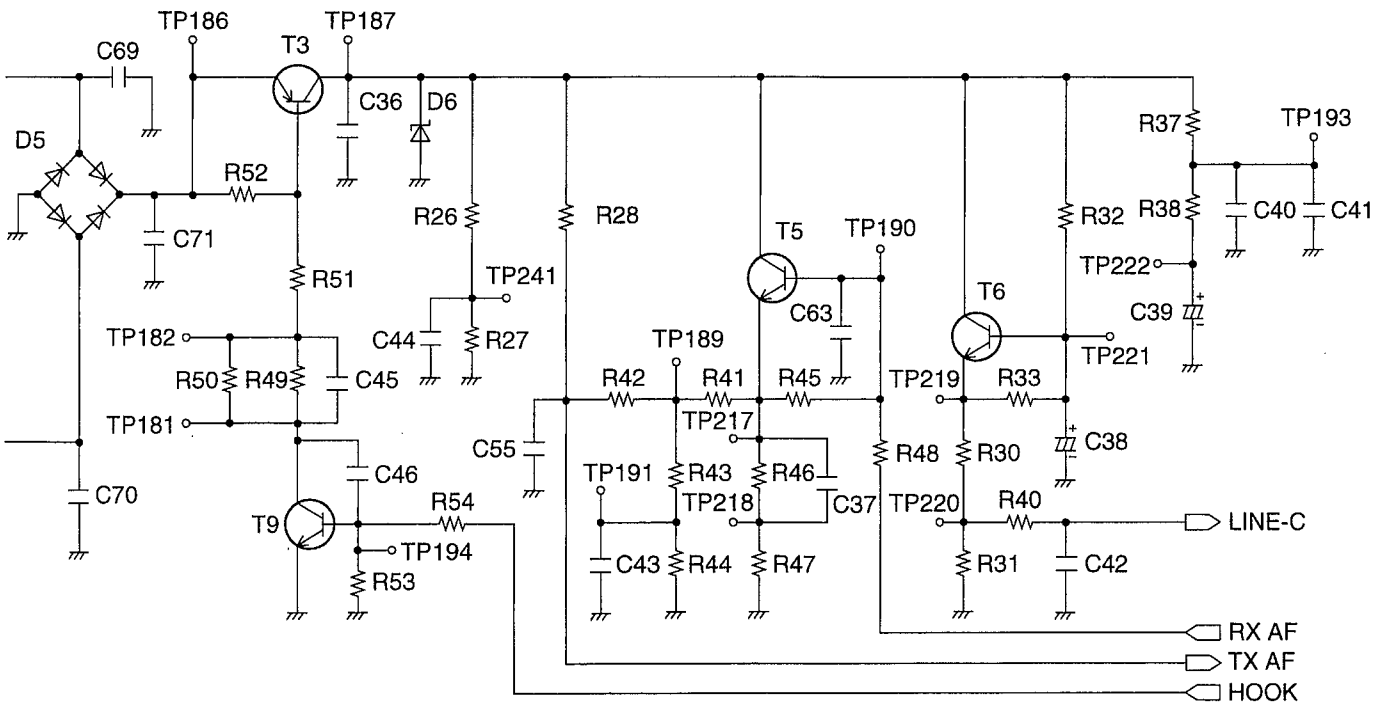


Fig. 31

3.9 DC MASK AND LINE IMPEDANCE (SEE Fig. 31)

Deletion

This replacement parts list are United Kingdom version only.

REPLACEMENT PARTS LIST

Base Unit

Note:

1. RTL (Retention Time Limited)
   The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention.
   After the end of this period, the assembly will no longer be available.
2. Important safety notice.
   Components identified by a ⚠ mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. The S mark indicates service standard parts and may differ from production parts.
4. RESISTORS & CAPACITORS
   Unless otherwise specified.
   All resistors are in ohms (Ω) K=1000Ω, M=1000KΩ
   All capacitors are in MICRO FARADS (μF) P= μμF
   *Type &Wattage of Resistor
   Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ER0:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W

*Type & Voltage of Capacitor
Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCBC : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyester
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Pcs/Set
		CABINET AND ELECTRICAL PARTS	
1	PQKM10314Z1	UPPER CABINET	1
2	PQYF10134W1	LOWER CABINET	1
3	PQSX10076Z	KEYBOARD SWITCH	1
4	PQBC10252Z	BUTTON	1
5	PQSA10068Z	ANTENNA	1
6	PQJT10146Z	CHARGE TWRMINAL	1
7	PQHR10605Z	LED COVER	1
8	PQMC10272Z	SCHIELD COVER	1
9	PQMC10271Z	SCHIELD COVER	1
10	PQQT11671Z	NOTE LABEL	1
11	XTW26+10P	SCREW	1
12	XTW3+S10P	SCREW	1
13	XTW3+S14P	SCREW	4
14	PQGT13330Z	NAME PLATE	1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		MAIN P.C.BOARD PARTS		
PCB1	PQWPTCD950EH	P.C.BOARD ASS'Y (RTL)		1
		(ICS)		
IC1	PQVINSC14421	IC		1
IC2	PQVINM4C16LM	IC		1
IC3	PQVI30612SFP	IC		1
IC4	PQWITC950GH1	IC ASS'Y		1
IC6	PQVILP295133	IC		1
IC8	PQVITC7S08FR	IC	S	1
IC101	PQVILMX3161V	IC		1
IC102	PQVILP298030	IC		1
IC103	PQVIITT2205A	IC		1
IC202	AN6123MS	IC		1
		(TRANSISTORS)		
T2	UN521	TRANSISTOR(SI)	S	1
T3	2SA1627	TRANSISTOR(SI)		1
T5	PQVTBC848BT7	TRANSISTOR(SI)		1
T6	2SD1994A	TRANSISTOR(SI)		1
T8	UN521	TRANSISTOR(SI)	S	1
T9	PQVTBF822T7	TRANSISTOR(SI)		1
T10	2SB709A	TRANSISTOR(SI)		1
T11	2SB709A	TRANSISTOR(SI)		1
T12	2SD1664Q	TRANSISTOR(SI)		1
T13	2SD601A	TRANSISTOR(SI)		1
T14	UN521	TRANSISTOR(SI)	S	1
T15	PQVTBC848BT7	TRANSISTOR(SI)		1
T16	PQVTBC848BT7	TRANSISTOR(SI)		1
T17	PQVTBCP5116T	TRANSISTOR(SI)	S	1
T101	PQVTBFP420GE	TRANSISTOR(SI)		1
T102	PQVTBC848WT7	TRANSISTOR(SI)		1
T103	PQVTBFS520T7	TRANSISTOR(SI)		1
T104	UN521	TRANSISTOR(SI)	S	1
T105	PQVTFMMT717	TRANSISTOR(SI)		1
T106	PQVTDTA143XU	TRANSISTOR(SI)		1
		(DIODES)		
D1	PQVDHVU359	DIODE(SI)		1
D3	PQVDPY1111R	LED		1
D5	PQVDS1ZB40F1	DIODE(SI)	S	1
D6	MA7200	DIODE(SI)		1
D8	PQVDBZV55C02	DIODE(SI)		1
D9	PQVDBZV55C02	DIODE(SI)		1
D10	MA110	DIODE(SI)		
D11	MA110	DIODE(SI)		1
D12	PQVDRLR4004	DIODE(SI)		1
D14	PQVDBR1111R	LED		1
D15	MA110	DIODE(SI)		1
D16	PQVDBR1112H	DIODE(SI)		1
D18	MA8180	DIODE(SI)		1
D101	PQVDBAR80	DIODE(SI)		1
D102	PQVDBB155	DIODE(SI)		1
D103	PQVDBAR6303W	DIODE(SI)		1
D104	PQVDBZX284C5	DIODE(SI)		1
D200	PQVDS1ZB40F1	DIODE(SI)	S	1
D201	MA4033	DIODE(SI)		1
		(COILS)		
L3	ELEV102KA	COIL		1
L4	ELEV102KA	COIL		1
L7	ELJPA100KF	COIL		1
L101	PQLQR2M2N2S	COIL		1
L103	PQLQR2M3N3S	COIL		1
L105	PQLQR3GR22J	COIL		1
L106	PQLQR3GR22J	COIL		1
L107	PQLQR3G68NJ	COIL		1

KX-TCD950E-B

This replacement parts list are United Kingdom version only.

Ref. No.	Part No.	Part Name & Description	Pcs/Set
L108	PQLQR2M2N2S	COIL	1
L109	PQLQR2M2N2S	COIL	1
L110	PQLQR2M2N2S	COIL	1
L111	PQLQR2M6N8KT	COIL	1
L112	PQLQR2M5N6K	COIL	1
L113	PQLQR2M3N3S	COIL	1
L114	PQLQR2M6N8KT	COIL	1
L115	PQLQR2M6N8KT	COIL	1
C190	PQLQR2M3N3S	COIL	1
		(VARISTERS)	
SA1	PQVDDSS301L	VARISTOR	1
SA2	PQVDDSS301L	VARISTOR	1
SA3	PQVDDSS301L	VARISTOR	1
SA4	PQVDDSS302MV	VARISTOR ⚠	1
		(JACKS)	
J1	PQJJ1T018Z	JACK, TEL	1
J2	PQJJ1T019Z	JACK, DC IN	1
		(CRYSTAL OSCILLATOR)	
X1	PQVCE1036N3Z	CRYSTAL OSCILLATOR	1
		(VOLTAGE CONTROLLER)	
OSC1	PQV043Z	CRYSTAL OSCILLATOR	1
		(PHOTO COUPLERS)	
IC5	PQVIPC817K	PHOTO ELECTRIC TRANSDUCER	1
IC200	PQVIPC817K	PHOTO ELECTRIC TRANSDUCER	1
		(SAW FILTERS)	
FL101	PQVSMDR1890C	SAW FILTER	1
FL102	PQVSMDR1890B	SAW FILTER	1
FL103	PQVFSAF1106M	SAW FILTER S	1
		(RELAY)	
RL1	PQSL134Z	RELAY	1
		(CONNECTOR)	
A190	PSJS01A01Z	CONNECTOR	1
		(CHARGE TERMINALS)	
J6	PQJT10142Z	CHARGE TERMINAL	1
J7	PQJT10142Z	CHARGE TERMINAL	1
		(RESISTORS)	
R1	ERJ3GEYJ105	1M	1
R2	ERJ3GEYJ105	1M	1
R3	ERJ3GEYJ273	27K	1
R4	ERJ3GEYJ101	100	1
R5	ERJ3GEYJ101	100	1
R6	ERJ3GEYJ103	10K	1
R7	ERJ3GEYJ103	10K	1
R8	ERJ3GEYJ102	1K	1
R9	ERJ3GEYJ1R0	1	1
R10	ERJ3GEYJ100	10	1
R11	ERJ3GEYJ100	10	1
R13	ERJ3GEY0R00	0	1
R14	ERJ3GEYJ102	1K	1
R15	ERJ3GEYJ221	220	1
R16	ERJ3GEYJ103	10K	1
R17	ERJ3GEYJ102	1K	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
R20	ERJ3GEYJ101	100	1
R21	ERJ3GEYJ103	10K	1
R22	ERJ3GEYJ103	10K	1
R23	ERJ3GEYJ102	1K	1
R25	ERJ3GEYJ271	270	1
R26	PQ4R18XJ391	390	1
R27	PQ4R18XJ122	1.2K	1
R28	ERJ3GEYJ123	12K	1
R30	ERJ14YJ100	10	1
R31	ERJ14YJ220	22	1
R32	ERJ3GEYJ393	39K	1
R33	ERJ3GEYJ822	8.2K	1
R34	PQ4R18XJ2R2	2.2	1
R41	ERJ3GEYJ152	1.5K	1
R42	ERJ3GEY0R00	0	1
R46	ERJ3GEYJ470	47	1
R47	ERJ3GEYJ220	22	1
R48	ERJ3GEYJ561	560	1
R49	PQ4R18XJ000	0	1
R51	PQ4R18XJ103	10K	1
R52	ERJ3GEYJ104	100K	1
R53	ERJ3GEYJ103	10K	1
R54	ERJ3GEYJ222	2.2K	1
R55	PQ4R18XJ223	22K	1
R56	ERJ3GEYJ103	10K	1
R57	ERJ3GEYJ104	100K	1
R58	ERJ3GEYJ104	100K	1
R59	ERJ3GEYJ101	100	1
R60	ERJ3GEYJ101	100	1
R61	PQ4R18XJ2R2	2.2	1
R62	PQ4R18XJ4R7	4.7	1
R63	PQ4R10XJ103	10K	1
R65	PQ4R10XJ1R5	1.5	1
R66	ERJ3GEYJ102	1K	1
R67	ERJ3GEYJ224	220K	1
R68	ERJ3GEYJ680	68	1
R69	ERJ3GEYJ104	100K	1
R70	ERJ3GEYJ562	5.6K	1
R71	ERJ3GEYJ392	3.9K	1
R72	ERJ3GEYJ103	10K	1
R82	ERJ3GEYJ103	10K	1
R85	PQ4R18XJ122	1.2K	1
R101	ERJ3GEYJ103	10K	1
R102	ERJ3GEYJ151	150	1
R103	ERJ3GEYJ331	330	1
R104	ERJ3GEYJ220	22	1
R105	ERJ3GEYJ220	22	1
R106	ERJ3GEYJ470	47	1
R107	ERJ3GEYJ220	22	1
R108	ERJ3GEYJ220	22	1
R109	ERJ3GEYJ223	22K	1
R110	ERJ3GEYJ563	56K	1
R111	ERJ3GEYJ563	56K	1
R112	ERJ3GEYJ100	10	1
R113	ERJ3GEYJ332	3.3K	1
R114	ERJ3GEYJ332	3.3K	1
R115	ERJ3GEYJ103	10K	1
R116	ERJ3GEYJ102	1K	1
R117	ERJ3GEYJ332	3.3K	1
R118	ERJ3GEYJ100	10	1
R119	ERJ3GEYJ222	2.2K	1
R120	ERJ3GEYJ472	4.7K	1
R121	ERJ3GEYJ682	6.8K	1
R122	ERJ3GEYJ222	2.2K	1
R123	ERJ3GEYJ332	3.3K	1
R124	ERJ3GEYJ220	22	1
R125	ERJ3GEYJ220	22	1
R126	ERJ3GEYJ220	22	1
R127	ERJ3GEYJ101	100	1
R128	ERJ3GEYJ223	22K	1
R129	ERJ3GEYJ122	1.2K	1
R130	ERJ3GEYJ681	680	1

This replacement parts list are United Kingdom version only.

Ref. No.	Part No.	Part Name & Description		Pcs/Set
R131	ERJ3GEYJ331	330		1
R132	ERJ3GEYJ100	10		1
R133	ERJ3GEYJ100	10		1
R134	ERJ3GEYJ103	10K		1
R200	ERDS2TJ101	100		1
R201	ERJ3GEYJ151	150		1
R202	ERJ3GEY0R00	0		1
R204	ERJ3GEY0R00	0		1
R205	ERJ3GEY0R00	0		1
R208	ERJ3GEYJ823	82K		1
R210	ERJ3GEYJ472	4.7K		1
R211	ERJ3GEYJ275	2.7M		1
R213	ERJ3GEYJ104	100K		1
JMP14	PQ4R18XJ000	0		1
L102	ERJ3GEY0R00	0		1
C106	ERJ3GEY0R00	0		1
C200	ERJ3GEY0R00	0		1
		(CAPACITORS)		
C1	ECUV1H470JCV	47P		1
C2	ECUV1H270JCV	27P		1
C3	ECUV1H102KBV	0.001		1
C4	ECUV1H103KBV	0.01		1
C5	ECUV1C104KBV	0.1		1
C6	ECUV1H331JCV	330P		1
C7	ECUV1H100DCV	10P		1
C8	ECUV1C104KBV	0.1		1
C10	PQCUV1C105ZF	1		1
C11	ECST0GY106	10		1
C12	ECUV1H100DCV	10P		1
C13	ECUV1C104KBV	0.1		1
C14	ECUV1C104KBV	0.1		1
C15	PQCUV1C224KB	0.22		1
C16	ECUV1C104KBV	0.1		1
C17	ECUV1C104KBV	0.1		1
C18	ECUV1H100DCV	10P		1
C19	ECST0GY106	10		1
C20	PQCUV1C105ZF	1		1
C21	ECUV1H100DCV	10P		1
C23	ECUV1H101JCV	100P		1
C24	ECUV1C104KBV	0.1		1
C25	ECUV1C104KBV	0.1		1
C26	ECUV1C104KBV	0.1		1
C27	ECUV1H681JCV	680P		1
C28	ECEA1EU101	100		1
C29	ECUV1H100DCV	10P		1
C30	ECUV1H100DCV	10P		1
C32	ECUV1H103KBV	0.01		1
C33	ECUV1C104KBV	0.1		1
C37	ECST0JY475	4.7		1
C38	ECST0JY685	6.8		1
C44	ECUV1H334ZF	0.33	S	1
C50	ECUV1C104KBV	0.1		1
C54	ECUV1H103KBV	0.01		1
C55	PQCUV1H103KB	0.01		1
C56	PQCUV1C224KB	0.22		1
C57	ECEA0JK221	220		1
C59	ECUV1H100DCV	10P		1
C60	ECUV1H100DCV	10P		1
C61	ECST0GY106	10		1
C62	ECUV1E105ZF	1	S	1
C69	ECUV2H152KB	0.0015		1
C70	ECUV2H152KB	0.0015		1
C71	ECUV2H681KB	680P		1
C72	ECEA0JK221	220		1
C101	ECUV1H1R5CCV	1.5P		1
C103	ECUV1H100DCV	10P		1
C104	ECUV1H222KBV	0.0022		1
C105	ECUV1H100DCV	10P		1
C107	ECUV1H102KBV	0.001		1
C108	ECUV1H2R2CCV	2.2P		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
C109	ECUV1H3R3CCV	3.3P		1
C111	ECUV1H4R7CCV	4.7P		1
C112	ECUV1H102KBV	0.001		1
C113	ECUV1H101JCV	100P		1
C114	ECUV1H102KBV	0.001		1
C115	ECUV1H102KBV	0.001		1
C116	ECUV1H330JCV	33P		1
C117	PQCUV1E104MD	0.1	S	1
C118	PQCUV1E104MD	0.1	S	1
C119	ECUV1H100DCV	10P		1
C120	ECUV1H102KBV	0.001		1
C121	ECUV1H680JCV	68P		1
C122	ECUV1H331JCV	330P		1
C123	ECUV1H330JCV	33P		1
C124	ECUV1H330JCV	33P		1
C125	ECUV1H100DCV	10P		1
C126	ECUV1H100DCV	10P		1
C127	ECUV1H100DCV	10P		1
C128	ECUV1H330JCV	33P		1
C129	ECUV1H100DCV	10P		1
C130	ECUV1H100DCV	10P		1
C131	ECUV1H100DCV	10P		1
C132	ECUV1H100DCV	10P		1
C133	ECUV1H100DCV	10P		1
C134	ECUV1H100DCV	10P		1
C135	ECUV1H100DCV	10P		1
C136	ECUV1H103KBV	0.01		1
C137	ECST1CY225	2.2		1
C138	ECUV1C104KBV	0.1		1
C139	ECUV1H470JCV	47P		1
C140	ECUV1H100DCV	10P		1
C141	ECUV1H100DCV	10P		1
C142	ECUV1H470JCV	47P		1
C143	ECUV1H100DCV	10P		1
C144	PQCUV1H102J	0.001		1
C145	ECUV1H100DCV	10P		1
C146	PQCUV1C472JG	0.0047		1
C148	ECUV1H220JCV	22P		1
C149	ECUV1H4R7CCV	4.7P		1
C150	ECUV1H1R5CCV	1.5P		1
C151	ECUV1H1R5CCV	1.5P		1
C152	ECUV1H1R5CCV	1.5P		1
C153	ECUV1H1R5CCV	1.5P		1
C154	ECUV1H2R2CCV	2.2P		1
C155	ECUV1H100DCV	10P		1
C156	ECUV1H100DCV	10P		1
C157	ECUV1H100DCV	10P		1
C158	ECUV1H100DCV	10P		1
C159	ECUV1H100DCV	10P		1
C160	ECUV1H100DCV	10P		1
C161	ECUV1H471JCV	470P		1
C162	ECUV1H100DCV	10P		1
C163	ECUV1H101JCV	100P		1
C164	ECUV1H100DCV	10P		1
C166	ECUV1H101JCV	100P		1
C167	ECUV1H100DCV	10P		1
C168	ECUV1H2R7CCV	2.7P		1
C169	ECUV1H1R5CCV	1.5P		1
C170	ECUV1H4R7CCV	4.7P		1
C171	ECUV1H100DCV	10P		1
C172	ECUV1H100DCV	10P		1
C173	ECUV1H100DCV	10P		1
C174	ECUV1H100DCV	10P		1
C191	ECUV1H100DCV	10P		1
C194	ECUV1H100DCV	10P		1
C195	ECUV1H100DCV	10P		1
C202	ECUV1H100DC	10P		1
C203	ECUV1H103KBV	0.01		1
C204	ECST0GY106	10		1
C205	ECST0GX686	68		1
C206	ECUV1A105ZFV	1		1
R209	ECUV1H822KBV	0.0082		1

KX-TCD950E-B

■ CHECK PROCEDURE (BASE UNIT) [Change from original page 50]

QUAD SETUP

5. Send batch file "WREE 00 04 nn" to set the DC level. Increase the value nn to increase the DC level and vice-versa. The DC level must be 1.5 ± 0.5V.

(Model KX-TCD950G-B)

➡

QUAD SETUP

5. Send batch file "MANTUN nn" to set the DC level. Increase the hex value nn to increase the level and vice-versa (The defalt value for nn is 80). The DC level must be 1.5 ± 0.5V.

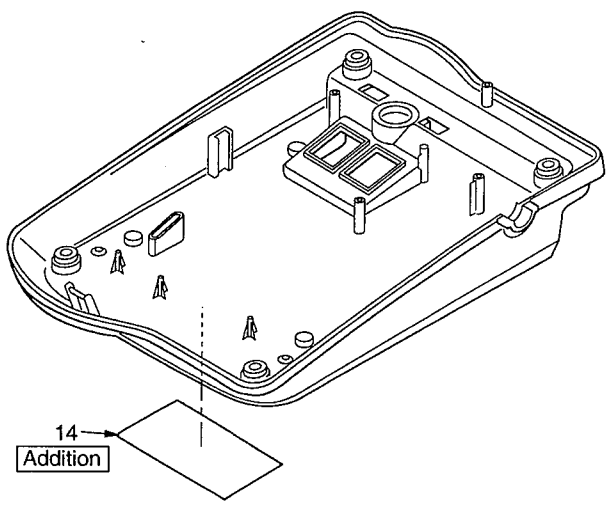
(Model KX-TCD950E-B)

■ EEPROM LAYOUT (BASE UNIT) [Change from original page 64]

	Miscellaneous				
	25	52	Fixed Dummy	The position of a fixed dummy bearer. It is only valid and testmode is only possible when the value is different from 0xFF. 1. digit = RF carrier 2. digit = Slot	
	26-28	00 10 00	RSSI Compensation	Rssi compensation table: Byte 1: Offset to be subtracted from AD C-value Byte 2: Factor for compensation (0x10 equals 1.0) Byte 3: Reserved	
	29	02	Diversity Mode	00: Diversity enabled 01: Antenna 1 used always. 02: Antenna 2 used always.	
Changed	2A-2c	Ef	Unused		
	2d	1A	DTMF Twist		
	2E-2F	F1 26	Ring Det Low Cnt	Lowest cycle length for accepting ring-voltage. The eeprom values can be calculated by following formula: Counter Value = (10368000/16)/Frequecy. **Defaults to 64Hz.** Example: 16 Hz in (10368000/16)/16=40500 = 0x9E34 ==>	

(Model KX-TCD950E-B)

■ CABINET AND ELECTRICAL PARTS LOCATION [Change from original page 72]



(Model KX-TCD950E-B)

K (Q)
KXTCD950EB-UK
Printed in Japan