ORDER NO. KM49310674C2

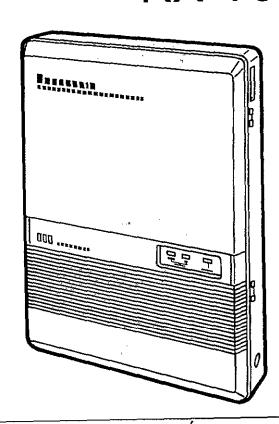
Service Manual

EASA-PHONE

ELECTRONIC MODULAR SWITCHING SYSTEM

KX-T30810BE-2

(For United Kingdom)



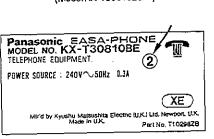


(Model KX-T30810BE)

Part No 1572ZA



(ModelKX-T30810BE-1)



(ModelKX-T30810BE-2)

- There are 3 types of model KX-T30810BE, such as KX-T30810BE, KX-T30810BE-1 and KX-T30810BE-2.
- The model KX-T30810BE-2, have a mark
 on the name plate in figure left.
- Please use this manual for model KX-T30810BE-2.

Panasonic

When you mention the serial number, write down the 11 digits. The serial number may be found on the name plate on the bottom of the unit.

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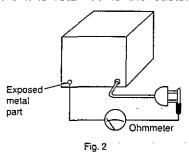
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SAFETY PRECAUTIONS

- 1. Before servicing, unplug the power cord to prevent an electric shock.
- 2. When replacing parts, use only manufacturer's recommended components of safety.
- 3. Check the condition of the power cord. Replace if wear or damage is evident.
- 4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
- 5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

INSULATION RESISTANCE TEST

- 1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
- 2. Turn on the power switch.
- 3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3 M Ω and 5.2 M Ω to all exposed parts*. (Fig. 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. 2)
 - *Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.
- 4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.



Resistance=Approx 5 MΩ

SPECIFICATIONS

General Description

1.	Capacity	Outsides (CO)	3
2	Control Method		•
۷.	Control Method		48 KB, Control RAM: 8 KB
3	Switching		
	Power Supplies		AC 240 V 50 Hz
4.	rower aupplies		· · · · · · · · · · · · · · · · · · ·
		Secondary	Station Supply Volt: +26 V,
		D	Circuit Volt: +5 V, +12 V, +18 V, +26 V
			sides assigned to stations (1 through 3)power
		failur	e transfer
5	Dialing	Outward	Dial Pulse 10PPS
٠.	Diamig	······	Tone Dial
		Internal	Dial Pulse 10PPS, 20PPS
		intornar	Tone Dial
		Mode Conversion	DP-DTMF, DTMF-DP
6	Connector	. Outsides (CO)	Modular Jack
Ų.	Connector	, ,	
		Station	Modular Jack
		Paging Output	Pin Jack (PCA JACK)
		External Music Input	,
_		-	diameter)
7.	EXT Connection	.Cable	1 pair wire (Standard Telephone)
			2 pair wire (KX-T7130E/KX-T7020E/
			KX-T7050E)
	Intercom Paths		
9.	Dimensions	.334 (W)×437 (H)×10	07 (D) mm
		(13\%2"×177\%2"×47\%	32")
10.	Weight	.5 kg (11 lb 0.4 oz)	
11.	Power Consumption	.40 W (Max.)	

Characteristics

1. Station	Loop Limit	KX-T7130E/KX-T7020E	40 ohms
		KX-T7050E	
		Standard Telephone	600 ohms including set
		Doorphone	20 ohms
2. Minimu	ım Leak Resistance	15,000 ohms	
3. Maximi	um Number of Station		
Instrum	nents per Line	1 (KX-T7130E, KX-T702	20E or KX-T7050E)
	•	3 (Standard telephone)	·
4. Ring Vo	oltage	90 Vrms at 20 Hz depen	ds on Ringing Load
5. Primar	y Power	240 Vac, 50 Hz	• •
		0-40°C, 132-104°F, 10)%–90%

Design and specifications are subject to change without notice.

NAME AND LOCATION

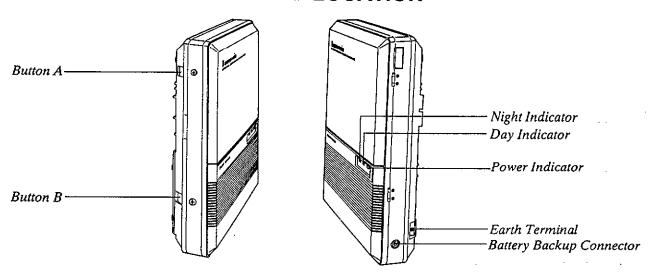


Fig. 3

Remove the two screws and push the Buttons A and B simultaneously to open the front cover.

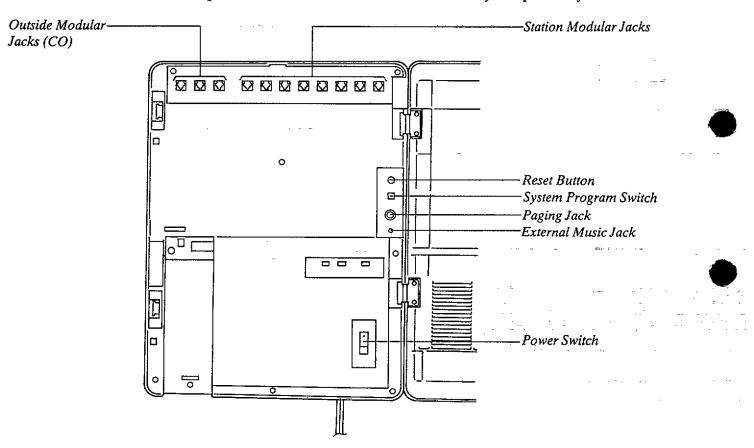
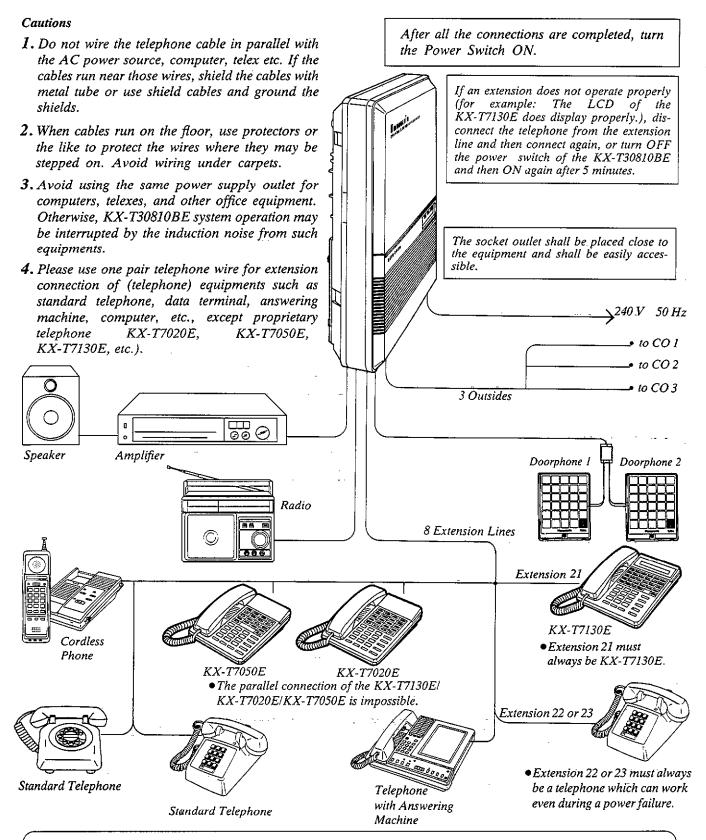


Fig. 4

CONNECTION



Warning. Identified ports do not provide isolation sufficient to satisfy the requirements of BS6301. Apparatus connected to such ports should either have been approved to BS6301 or have previously been evaluated against British Telecommunications plc (Post Office) Technical Guides 2 or 26 and given permission to attach. Other usage will invalidate any approval given to the apparatus. Connect apparatus complying with BS6317 to these ports.

PROGRAMMING

Programming Instructions

1. At extension 21:

All system programming changes (example: system clear, station program clear, toll restriction, hookswitch flash timing...) are done through extension 21.

- •Extension 21 must always be a Panasonic model, KX-T7130E.
- 2. System Program Switch setting:
 The System Program Switch located on the
 KX-T30810BE must be set to the PROGRAM
 position while making program changes. After all
 programming changes are completed, return the

program switch to the SET position.

3. Overlay:

This overlay is used for programming the system and the program function names on buttons are inscribed on this card. Refer to page 2-2.

- **4.** Before system programming, you may operate system clear and station program clear to set default data of programming.
 - A. System Clear:
 - 1 Dial (99).
 - •"SYSTEM CLEAR" will be displayed.
 - 2 Press the NEXT button.
 - •"ALL CLEAR?" will be displayed.
 - 3 Press the STORE button to clear system.
 - 4 To exit from system clear, press the END button.

The following features are preset as the default data.

Date and Time

System Speed Calling

Dial Mode (Tone/Pulse) Selection

Switching Mode (Day/Night Service)

Starting Time (Day/Night Service)

Flexible Day Outward Dialling Assignment

Flexible Night Outward Dialling Assignment

Flexible Day Ringing Assignment

Flexible Night Ringing Assignment

Toll Restriction—Class Assignment

Toll Restriction—Area Code Selection

Transfer Recall Time

Automatic Answering (Automatic/Manual)
Selection

Duration Time Count Start Mode
Register Recall Signal
Disconnect Time
Calling Party Control (CPC) Signal
Intercom Alerting Mode
Programmable Doorphone
Dial Call Pickup Group Assignment
Hold Time Reminder
Hold Recall Time Set
Programmable External Paging Access Tone
DTMF Receiver
Programmable Secret Auto Dial
Automatic Designated CO Line Access
Door Opener Assignment
Least Cost Routing Feature

B. Station Program Clear:

- 1 Dial (98).
 - •"EXT CLEAR" will be displayed.
- 2 Press the NEXT button.
- •"ALL CLEAR?" will be displayed.
- 3 Press the STORE button to clear the system.
- 4 To exit from station clear, press the END button.

The following features are preset as the default data.

One Touch Dialling

Background Music

Call Forwarding

Data Line Security

Dial Call Pickup Deny

Do not Disturb

Flexible CO Button

Flexible DSS Button

When the System Program Switch on the EMSS Control Unit is set to the position for programming, the function of the KX-T7130E connected to your EMSS Control Unit will change as follows.

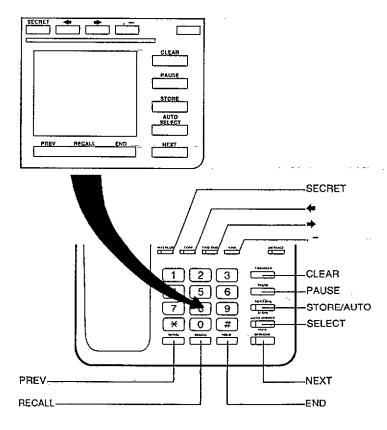


Fig. 6

Notes: 1. For details of installation, refer to the Installation Manual (Part No. PQQX10361Z).

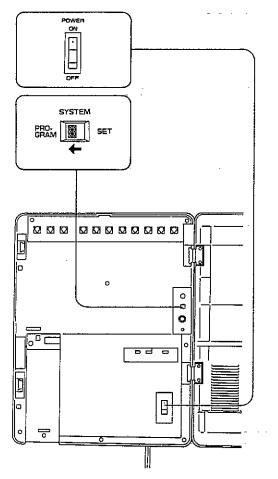
2. For details of operation, refer to the User Guide (Part No. PQQX10362Z).

Example of Programming

- 1. Turn the Power Switch to ON
- - Be sure the handset of the extension 21 is in the cradle and the speakerphone button of the extension 21 is off.
- 3. To program automatic line access number 9 and the phone number 987-654-3210 into memory location (speed dial access) number 00.

	KX-T7130E a (Extension 21 must alv	
1.	Dial (01) or press the AUTO button.	Display SPEED CALLING
2.	Press the NEXT button.	ENTER SPEED CODE
3.	Dial (00) or press the NEXT button.	•If nothing is stored in access code "00", 00: NOT STORED •If already stored the automatic line access number 9 and the phone number 123-456-7890, 00: -123-456-7890
4.	① Dial "9". ② Press "—" button. ③ Dial "987". ④ Press "—" button. ⑤ Dial "654". ⑥ Press "—" button. ⑦ Dial "3210".	00: -987-654-3210
5.	Press the MEMORY button.	00: -987-654-3210
6.	 To program a next access button. To program a desired acc SELECT button and ther 	ess code, press the
7.	Repeat step 4 to 6.	
8.	To return to the initial program mode, press the END button.	ENTER PGM CODE

- 4. Return the System Program Switch to SET
- To make program change, start from the beginning.



While programming if a mistake is made,

- 1. Press the "END" button.
- 2. Start programming procedure from the beginning.
- •You will hear the beeps after press the MEMORY button.
- •The MEMORY indicator light goes on when the MEMORY button is pressed, and then Indicator light goes out when the NEXT or PREV button is pressed.

■ PROGRAMMING TABLE

TO SET	PROGRAM ADDRESS	STEF	PS REQUIRI	EDT	O CI	<i>IAN</i>	GE P	ROC	GRAN	M				
Date and Time	[00]	[A][0][SELECT][0][B][0 U-year U-monthU-d	SELECT][\$][G][\$ ay —day of the week —	∟-mi	SELEC	<u>:П</u> [МЁ	MORY И/РМ][END]						
System Speed Calling Entry	[01] or [AUTO]	[AB][CD][phone number][MEMORY]												
Dial Mode (Tone/Pulse) Selection	[03]	[NEXT][SELECT][MEN	NE/PULSE	ears	·		<u>-</u>			-	- *			
		50(1)	Default			To	make pro	•	hange]		
		CO(s) Pulse mode	all CO's	+				2		3		ļ		
		Tone (DTMF) mode		 		-						l		
Switching Mode (Day/Night Service)	[04]	[SELECT][MEMORY][I	END]									_		
			Default			To	nake pro	gram c	hange					
		Manual	×											
	.	Automatic		<u>. </u>										
Starting Time (Day/Night Service)	[05]	[A][\(\phi\)][B][\(\phi\)][SELECT][MEMORY][NEXT][C][\(\phi\)][D][\(\phi\)][SELECT][MEMORY][END] \[\begin{array}{c} \Lminute \begin{array}{c} \LAM/PM \\ \Lstarting time for night service (hour) \end{array} \] \[\begin{array}{c} \Lstarting time for night service (hour) \end{array}							Sayah Langu .					
		D. I.	Default			Ton	nake pro	gram ci	hange			ı		
		Day plan Night plan	9:00 AM 5:00 PM						_			l		
Flexible Day Outward Dialling Assignment	[06]	[NEXT][CE][MEMORY][END] LCO number until the desired extension number appears												
			Default			Ton	nake pro	gram cl	iange					
		Extensions CO 1	all extensions	21	22	23	24	25	26	27	28			
		CO 2	×	-	-			 		 				
		CO 3	×		<u> </u>									
Flexible Night Outward Dialling Assignment	[07]	[NEXT][CE][MEMOR	number	r appea	ırs						'			
			Default			Ton	nake pro	gram ci	ange					
		Extensions	all extensions	21	22	23	24	25	26	27	28			
		CO 1	×											
		CO 2 CO 3	×											
	<u> </u>		×				<u> </u>		<u>L</u>	<u> </u>	<u>. </u>			
Flexible Day Ringing Assignment	[08]	[NEXT][CE][MEMOR	rumber	r appea	ers						,			
			Default			T	anka	4Fa						
		Extensions	all extensions	21	22	23	iake pro 24	gram en 25	ange 26	27	28			
		CO I	×								20			
	1	CO 2	×				i				\Box			
	1	CO 3	×						-	 _				

TO SET	PROGRAM ADDRESS	STEPS RE	EQUIRE	D TO) CH	IANC	E P	ROG	RAM	ſ		
Flexible Night Ringing Assignment	[09]	[NEXT][CE][MEMORY][ENI	r	r appea	ırs							
			Default			Ton	nake pro	gram ch	ange			
			extensions	21	22	23	24	25	26	27	28	
		COI	×									
		CO 2	×									
		CO 3	×]	<u> </u>		L	<u> </u>		<u> </u>	<u> </u>	
Toll Restriction—Class Assignment	[10]		NEXT][SELECT][MEMORY][END] CLASS 1/2/3/4 until the desired extension number appears									- 1 ·
			Default		·		_	gram ch				
			extensions	21	22	23	24	25	26	27	28	
		Class 1 Class 2	×		-		-	-		 	-	
		Class 3										
		Class 4							·		İ	
Denied Codes Transfer Recall Time	[12]	Larea code with 4until the desired mem Location number Area code Location number Area code Location number Area code Location number Area code Location number Selection number		01 06 11	er appe	02 07 12		03	3		9	
·		30 SEC/15 SEC										
			Default			To	nake pr	ogram ci	hange			<u> </u>
		30 sec	×	1								4
	<u> </u>	15 sec		<u> </u>								
Automatic Answering (Automatic/Manual) Selection	[14]	[NEXT][SELECT][MEMORY][AUTO ANuntil the desired exten	ISWER/MA							-		7
		· · · · · · · · · · · · · · · · · · ·	Default					ogram ci		,		1
			extensions	21	22	23	24	25	26		-	
		Automatic	×		-			 			-	-
		Manual		}			1			Ь.	1	J

TO SET	PROGRAM ADDRESS	STE	EPS REQUIRE	ED To	9 <i>CH</i>	IAÑC	GEP	ROG	RAN	1	
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		-	Default				nake pro	eram ch	ange		-
		Instantly	Dejum	1		200	iune pro	5			_
	· [5S after dial	×	1							
]	10S after dial									
egister Recall Signal	[18]	[NEXT][SELECT][ME	EMORY][END] ARTH/TIMED/MA	N/2/ 4 7			٠				
		i .	ired CO number app		1/W.A1						
			Default			To n	rake pro	gram ch	ange		
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		EARTH	×						-		
		TIMED		ĺ					_		_
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isconnect Time	[19]	l 1	EMORY][END] 0 SEC/4.0 SEC ired CO number app	 ears	-						
		1	Default			Ton	nake pro	gram ch	ange		
		CO(s)	all CO's		I			?	T	3	
		2.0 sec	×				-				
		4.0 sec				 					
alling Party Control EPC) Signal	[20]	t	NABLE/DISABLE ired CO number app Default	ears		Ton	ake pro	gram ch	ange		·
						~~					
		CO(s)	all CO's	-	1			?	Î	3	
		CO(s) Enable			1					3	
			all CO's		1					3	
Intercom Alerting Mode	[21]	Enable Disable [NEXT][SELECT][MB]	all CO's X EMORY][END] ONE CALL/VOICH ired extension numbe							3	
tercom Alerting Mode	[21]	Enable Disable [NEXT][SELECT][ME LTi Luntil the desi	all CO's X EMORY][END] ONE CALL/VOICHired extension number	er appea	rs	Ton	ake pro	gram ch	ange		120
ercom Alerting Mode	[21]	Enable Disable [NEXT][SELECT][ME	all CO's X EMORY][END] ONE CALL/VOICH ired extension numbe Default all extensions							27	28
rcom Alerting Mode	[21]	Enable Disable [NEXT][SELECT][ME	all CO's X EMORY][END] ONE CALL/VOICHired extension number	er appea	rs	Ton	ake pro	gram ch	ange		28
ercom Alerting Mode	[21]	Enable Disable [NEXT][SELECT][ME	all CO's X EMORY][END] ONE CALL/VOICH ired extension numbe Default all extensions	er appea	rs	Ton	ake pro	gram ch	ange		28
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		Enable Disable [NEXT][SELECT][ME ——until the desi Extensions Tone call Voice call [NEXT][SELECT][ME	all CO's X EMORY][END] ONE CALL/VOICE ired extension numbe Default all extensions X EMORY][END] -PHONE 1, 2/1/2• ired extension numbe	21 • (deny	22 the rin	To n 23 ging)	nake pro	gram ch	ange 26		28
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TO SET	PROGRAM ADDRESS	STEPS	REQU	IRE	D TO	CH	IANG	E P	ROC	GRA!	И	•
Hold Time Reminder	[25]	[SELECT][MEMORY][ENI								•••		
		and the same of the same	1				min	utes			<u> </u>	15.
			1	2	3	4	! 5	3	6	7	8	9
,		Default	ļ <u>.</u>		×	_						
	<u> </u>	To make program change										<u> </u>
Hold Recall Time Set	[26]	[SELECT][MEMORY][ENI		MIN/L	DISABL	Æ				-	-	-
			30 sec	nds	I min	ute	1 mi 30 sec		2 n	iinutes	di	sable
		Default	×				30 361	. U/III	-		-	
		To make program change]									
Programmable External Paging Access Tone	[27]	[SELECT][MEMORY][ENI					-				-	
			Defau	r	i		Ton	iake pr	ogram e	hange		
		Enable	×									
		Disable										
DTMF Receiver Check	[28]	[SELECT][MEMORY][ENI										
		<u> </u>	Defaui	t			To n	iake pr	ogram e	hange		
	į	DTMF receiver	1, 2				1				2	***
		Enable	×						-			
		Disable		==		_			<u> </u>			<u> </u>
Programmable Secret Auto Dial	[29]	[SELECT][MEMORY][END] L-NO SECRET/SECRET										
		Default To make program change										
		No secret	×				·					
		Secret										7:
Automatic Designated CO Line Access	[31]	[NEXT][CE][MEMORY] LCO number Luntil the desired e.	r	umbe	r appeai	s						
			Defaui	ť			Ton	take pr	ogram e	hange		
		Extensions	all extensi	ons	21	22	23	24	25	26	27	28
		CO 1	×							 	_	4
		CO 2 CO 3	×						-	+	_	
									<u> </u>			
Toll Restriction—Allowed Codes	[33]	[NEXT][C][MEMORY][ENI Larea co Luntil the desired e.	de with 4		r annaa	**						
				-			- 02			2.2		0.4
		Location number	00	-	01		02			93	+	04
		Area code										
		Location number	05	-	06		07		i	28		09
		Area code										
Door Opener Assignment	[34]	[NEXT][SELECT][MEMOR	RY][END]	וכונו	/	000:5						
		until the desired e					iea)					
		1.1	Defaul				To n	take nr	ogram (hance	_	
		Extensions	all extens		21	22	23	24	25	26	27	28
		not assigned	×									
		Door opener !							-		_	
	1	Door opener 2			1		1	l	1		1	1

TO SET	PROGRAM ADDRESS	STEPS	REQUIR	ED TO C	HANGE I	PROGRAM	1		
LCR Enable or Disable	[70]	[SELECT][MEMORY][END] LDISABLE/ENABLE							
			Default	T	To make p	rogram change			
		Disable	×						
		Enable							
BTL Used Code	[71]	[NEXT][CG][MEMORY	Used Code with	5 digits					
			00	01	02	03	04		
		Area code							
			05	06	07	08	09		
		Area code							
			10 .	11	12	13	14		
		Area code	:						
			15	16	17	18	19		
		Area code							
		11	20	21	22	23	24		
		Area code							
			25	26	27	28	29		
		Area code							
			30	31	32	33	34		
		Area code							
			35	36	37	38	39		
		Area code							
MCL Authorization Code	[72]		orization code i	with pauses	1		· · · · · · · · · · · · · · · · · · ·		
MCL Access Code	[73]	L CO number [AJ][MEMORY][END]							
		L MCL Access co	de		,				
Itemized Bill by Extension	[74]	[NEXT][SELECT][MEMO L DISA L until the desired	BLE/ENABLE						
			Default		To make p	rogram change			
		CO(s)	all COs	Ī		2	3		
		Disable	×						
		Enable			. <u> </u>				
BTL Access Code	[75]	[NEXT][ABCD][MEMOR							
Station Program Clear	[98]	[MEMORY][END]			·				
System Clear	[99]	[MEMORY][END]							

FOR SERVICE TECHNICIANS

ICs and LSIs are vulnerable to static electricity.

When repairing, the following precautions will help prevent recurring malfunctions.

- ·Cover plastic parts boxes with aluminum foil.
- •Ground soldering irons.
- *Use a conductive mat on worktable.
- *Do not grasp IC or LSI pins with bare fingers.

DISASSEMBLY INSTRUCTIONS

1. HOW TO OPEN THE FRONT COVER

- 1. Remove the two (2) screws (A).
- 2. Push the buttons.

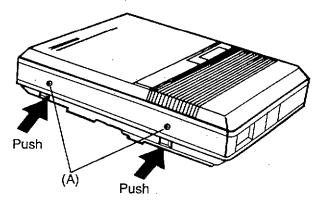


Fig. 7

2. HOW TO REMOVE THE INSIDE COVER.

- 1. Remove the nine (8) screws (B).
- 2. Remove the inside cover.
- 3. Pull out the connector.

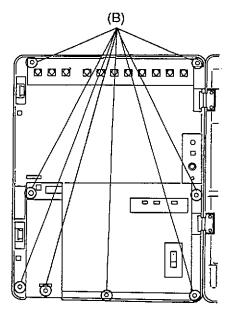


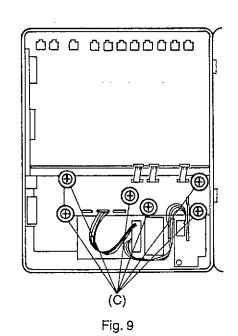
Fig. 8

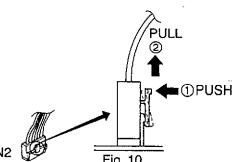
3. HOW TO REMOVE THE MAIN BOARD.

- 1. Pull out the three (3) connectors.
- 2. Remove the main board.

4. HOW TO REMOVE THE POWER REGULATOR BOARD

- 1. Remove the six (6) screws (C).
- 2. Pull out the six (6) connectors.
- 3. Remove the power regulator board.



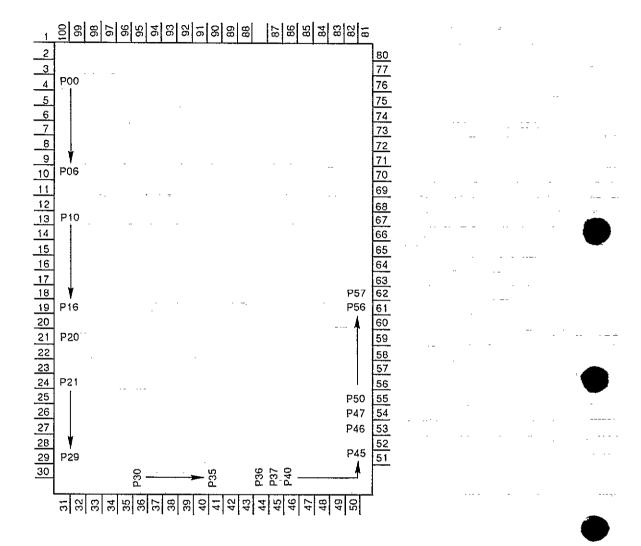


IC I/O DATA

	IC1	00	
1	vss	Ε	64
2	XTAL	RD	63
3	EXTAL	WŘ	62
4	MPO	R/W	61
5	MPI	LIR	60
	RST	·BA	59
7	STBY	D0	58
8	IMN	D1	57
9	P20	D2	56
	P21	D3	55
	P22	D4	_
	P23	D5	53
13	P24	D6	52
14	P25	D7	51
15	P26		50
	P27		49
	P50		48
	P51		47
	P52		46
	P53		45
21	P54		44
	P55		43
	P56	VSS	
			41
	P60		40
	P61	A10	
	P62	A11	
	P63	A12	
	P64	A13	
	P65	A14	35
31		A15	
32	P67	Vcc	33

IC100

			<u> </u>				
Port	Pin No.	1/0	Signal Name	High Imp.	High Level	Low Level	Remarks
NMI	8	1	CPU Restart				
P20	9	ı	CNCT1: Doorphone 1 Connect Detection		Connect	Non-Connect	
P21	10	1	CNCT2: Doorphone 2 Connect Detection		Connect	Non-Connect	
P22	11	1	DHK1: Doorphone 1 Connect Detection		Off-Hook	On-Hook	
P23	12	I	DHK2: Doorphone 2 Connect Detection	*****	Off-Hook	On-Hook	
P26	15	1	DROP: Doorphone Adaptor Connect Detection		Non-Connect	Connect	
P51	18	ı	PFD: Power Failure Detection		Power Failure	Normal	
P53	20	- E	HALT: Halt Control Input		Normal	Power Failure	
P54	21	1	TEST1		Normal	Test Mode	
P55	22	1	TEST2		Normal	Test Mode	
P56	23	- 1	STD1: DTMF Signal Detection 1		Reception	Non-Reception	DTMF R1
P57	24	1	STD2: DTMF Signal Detection 2		Reception	Non-Reception	DTMF R2
P60	25	0	Door Opener 1		Make	Break	
P61	26	0	Door Opener 2		Make	Break	
P62	27	0	Bank Control		Bank 1	Bank 2	
P63	28	0	20Hz: Ringing Signal Output				
P64	29	0	PF: Power Failure Control		Power Failure	Normal	
P65	30	0	20Hz: Ringing Signal Output				
P66	31	0	BRK: EXT Over Current Protection	Break	On	Break .	EXT11-18
P67	32	1	Test		Normal	Test Mode	



IC113

Port	Pin No.	1/0	Signal Name	High Imp.	High Level	Low Level	Remarks
POO	4	0	COL1: HD Signal Generator Control 1		Active	In-Active	,
PO1	5	0	COL2: HD Signal Generator Control 2		Active	In-Active	
PO2	6	0	COL3: HD Signal Generator Control 3		Active	In-Active	
PO3	7	0	ROW1: HD Signal Generator Row 1		Active	In-Active	
PO4	8	0	ROW2: HD Signal Generator Row 2		Active	In-Active	
PO5	9	0	ROW3: HD Signal Generator Row 3		Active	In-Active	
PO6	10	0	ROW4: HD Signal Generator Row 4		Active	In-Active	
P10	13	0	A: Cross Point Address		Address High	Address Low	
P11	14	0	B: Cross Point Address		Address High	Address Low	
P12	15	_ 0	C: Cross Point Address		Address High	Address Low	
P13	16	0	D: Cross Point Address		Address High	Address Low	
P14	17	0_	E: Cross Point Address		Address High	Address Low	
P15	18		STB0: Cross Point Strobe		Active	In-Active	
P16	19	0	STB1: Cross Point Strobe		Active	In-Active	
P20	21	0	XD0: Cross Point Data		Data High	Data Low	
P21	24	0	XD1: Cross Point Data		Data High	Data Low	
P22	25	0	XD2: Cross Point Data		Data High	Data Low	
P23	26	0	XD3: Cross Point Data		Data High	Data Low	
P24	27	0	Earth Recall Control		Make	Break	CO1
P25	28	0	Earth Recall Control		Make	Break	CO2
P26	29	0	Earth Recall Control		Make	Break	CO3
P60	31	1	OL: EXT Over Current Detection		Over Current	Normal	EXT11-18
P61	32	1	PRG: System Selection		System Mode	Program Mode	
P30	36	0	PDRLY: Power Failure Control	Break	Make	Break	RLY10A-10C
P31	37	0	DL3: Line Close, Dial Transmission	Break	Make	Break	CO3
P32	38	0	CF3: CO Amp Conference	Conference	Non-Conference	Conference	CO3
P33	39	0	HD3: CO Amp Hold on Music Control	Transmission	Non-Transmission	Transmission	CO3
P34	40	0	SH3: CO Amp Shunt Control	Shunt	Non-Shunt	Shunt	CO3
P35	41	0	MT3: CO Amp Mute Control	Non-Mute	Mute	Non-Mute	CC3
P36	44	0	Shunt Relay Control	*****	Make	Break	CO1
P37	45	1	BELL3: Bell, CPC Input		Non-Bell,Line Break	Bell, Line Make	CO3
P40	46	0	DAY: Day Mode LED Control	Lights-Out	Lighting	Lights-Out	CO2
P41	47	0	DL2: Line Close, Dial Transmission	Break	Make	Break	CO2
P42	_48	0	CF2: CO Amp Conference	Conference	Non-Conference	Conference	CO2
P43	49	0	HD2: CO Amp Hold on Music Control	Transmission	Non-Transmission	Transmission	CO2
P44	50	0	SH2: CO Amp Shunt Control	Shunt	Non-Shunt	Shunt	CO2
P45	51	0	MT2: CO Amp Mute Control	Non-Mute	Mute	Non-Mute	CO2
P46	53	0	BUSY2: Doorphone 2 ON/Off Control	Off	On .	Off	
P47	54	1	BELL2: Bell, CPC Input		Non-Bell,Line Break	Bell, Line Make	CO2
P50	55	0	NIGHT: Night Mode LED Control	Lights-Out		Lights-Out	
P51	56	0	DL1: Line Close, Dial Transmission	Break	Make	Break	CO1
P52	57	0	CF1: CO Amp Conference	Conference	Non-Conference	Conference	CO1
P53	58	0	HD1: CO Amp Hold on Music Control	Transmission	Non-Transmission	Transmission	CO1
P54	59	0	SH1: CO Amp Shunt Control	Shunt	Non-Shunt	Shunt	CO1
P55	60	0	MT1: CO Amp Mute Control	Non-Mute	Mute	Non-Mute	CO1
P56	61	0	Shunt Relay Control		Make	Break	CO1
P57	62	ı	BELL1: Bell, CPC Input		Non-Bell,Line Break	Bell, Line Make	CO1 .

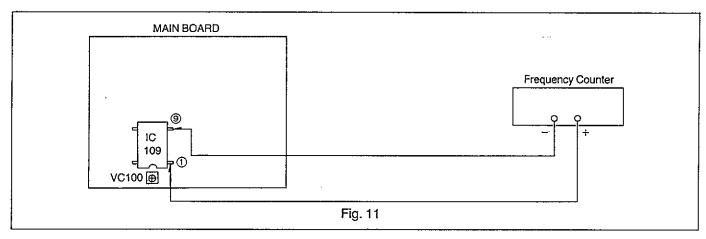
ADJUSTMENTS

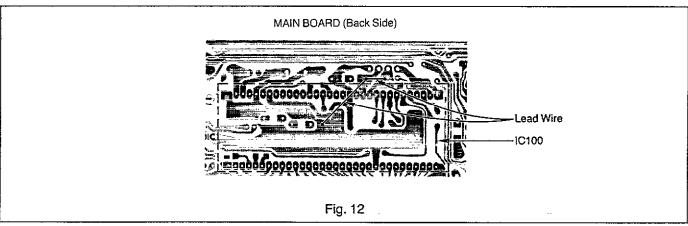
M OSCILLATION PERIOD ADJUSTMENT

Perform the following adjustment after replacing IC109.

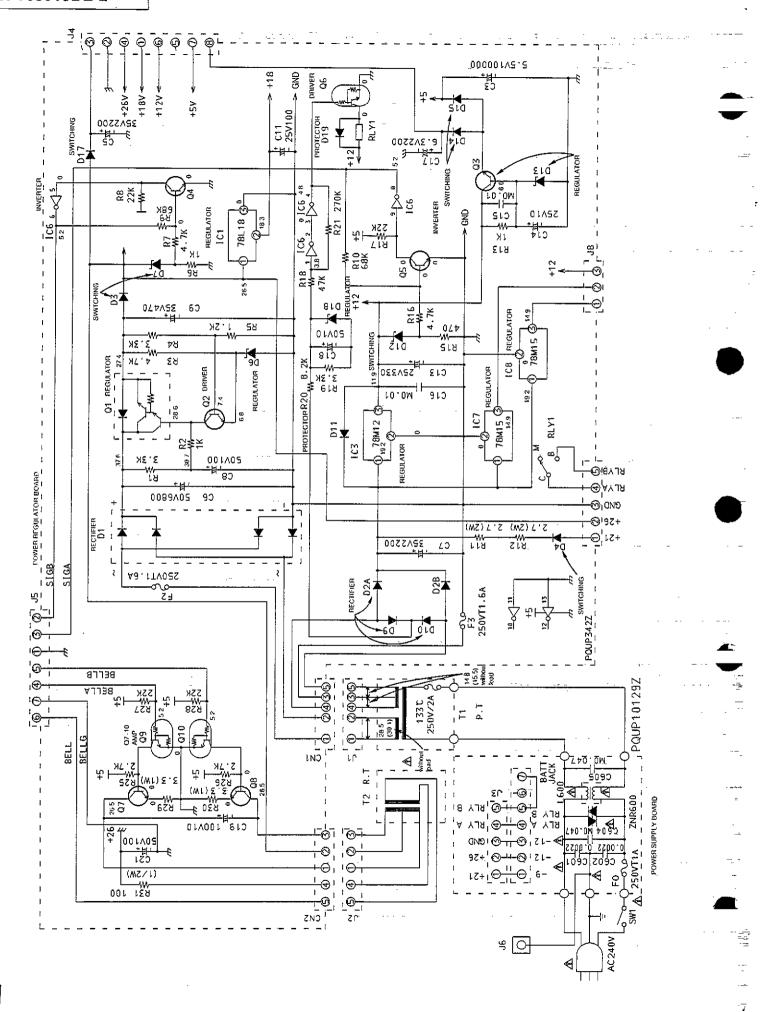
- 1. Connect the AC cord to the AC power SOURCE (AC 240 V, 50 Hz).
- 2. Set the power switch to ON.
- 3. Connect the lead wire. (See Fig. 12) (After adjustment, remove the lead wire.)
- 4. Push the reset switch.
- 5. Connect the frequency counter. (See Fig. 11)
- 6. Set the frequency counter to PERIOD.
- 7. Adjust VC100 for a reading of (,) msec on the frequency counter.

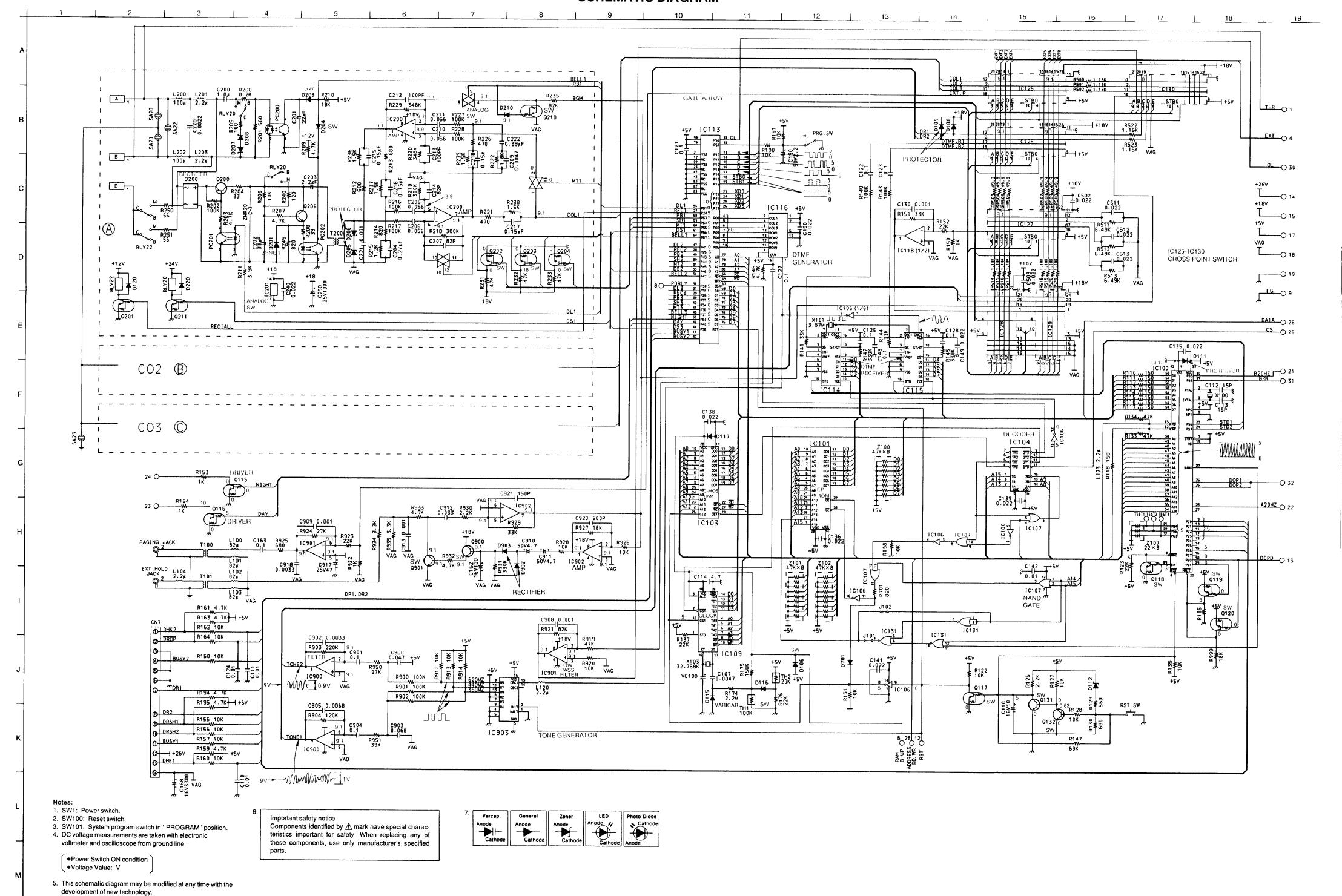
Room temperature for adjusting (°C)	Period value (msec)	Room temperature for adjusting (°C)	Period value (msec)
10~10.9	15.62498~15.62500	17~17.9	15.62491~15.62492
11~11.9	15.62497~15.62499	18~18.9	15.62490~15.62491
12~12.9	15.62495~15.62497	19~19.9	15.62489~15.62490
13~13.9	15.62494~15.62496	20~20.9	15.62488~15.62489
14~14.9	15.62493~15.62495	21~21.9	15.62487~15.62489
15~15.9	15.62492~15.62494	22~27.9	15.62486~15.62488
16~16.9	15.62491~15.62493	28~28.9	15.62487~15.62489



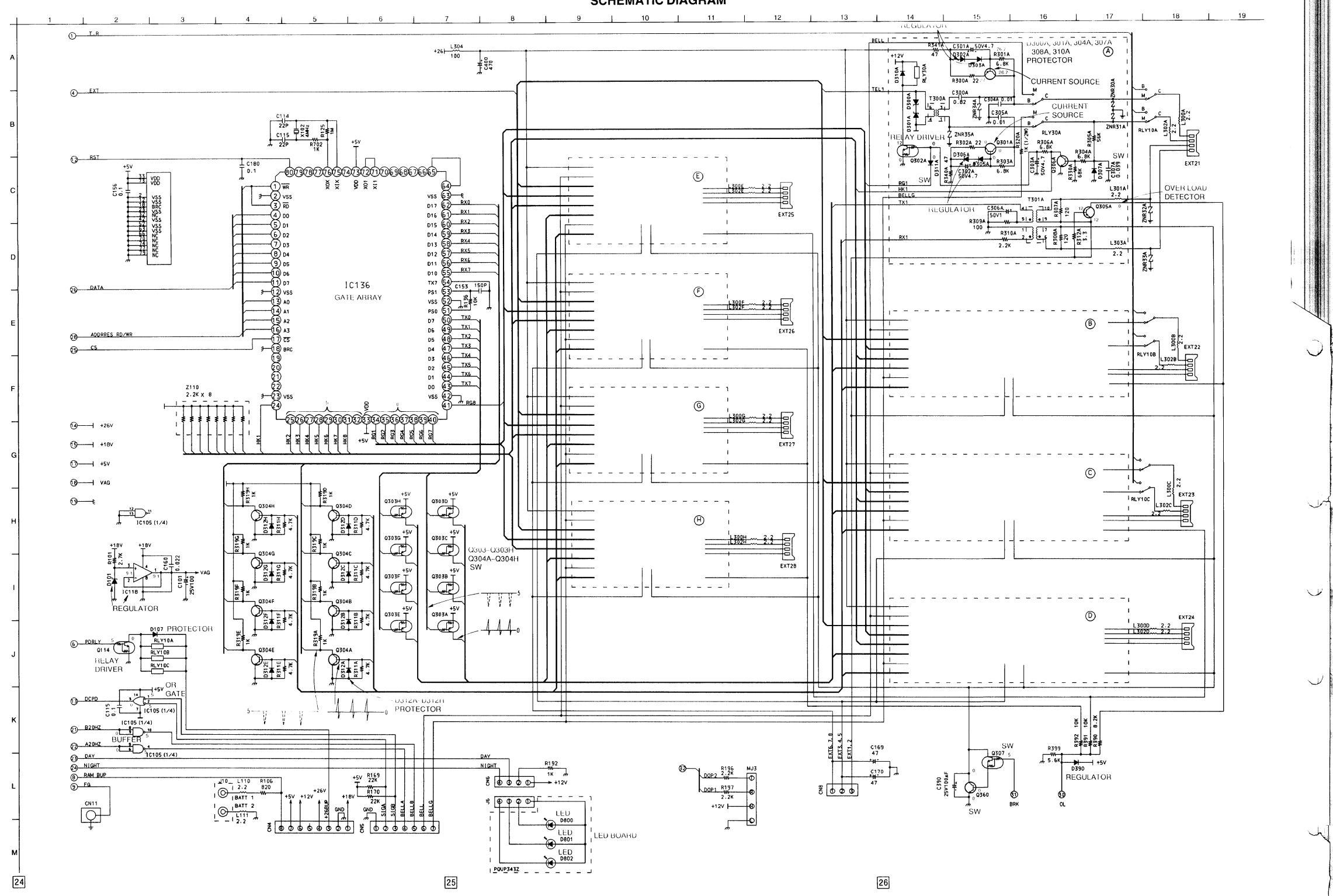


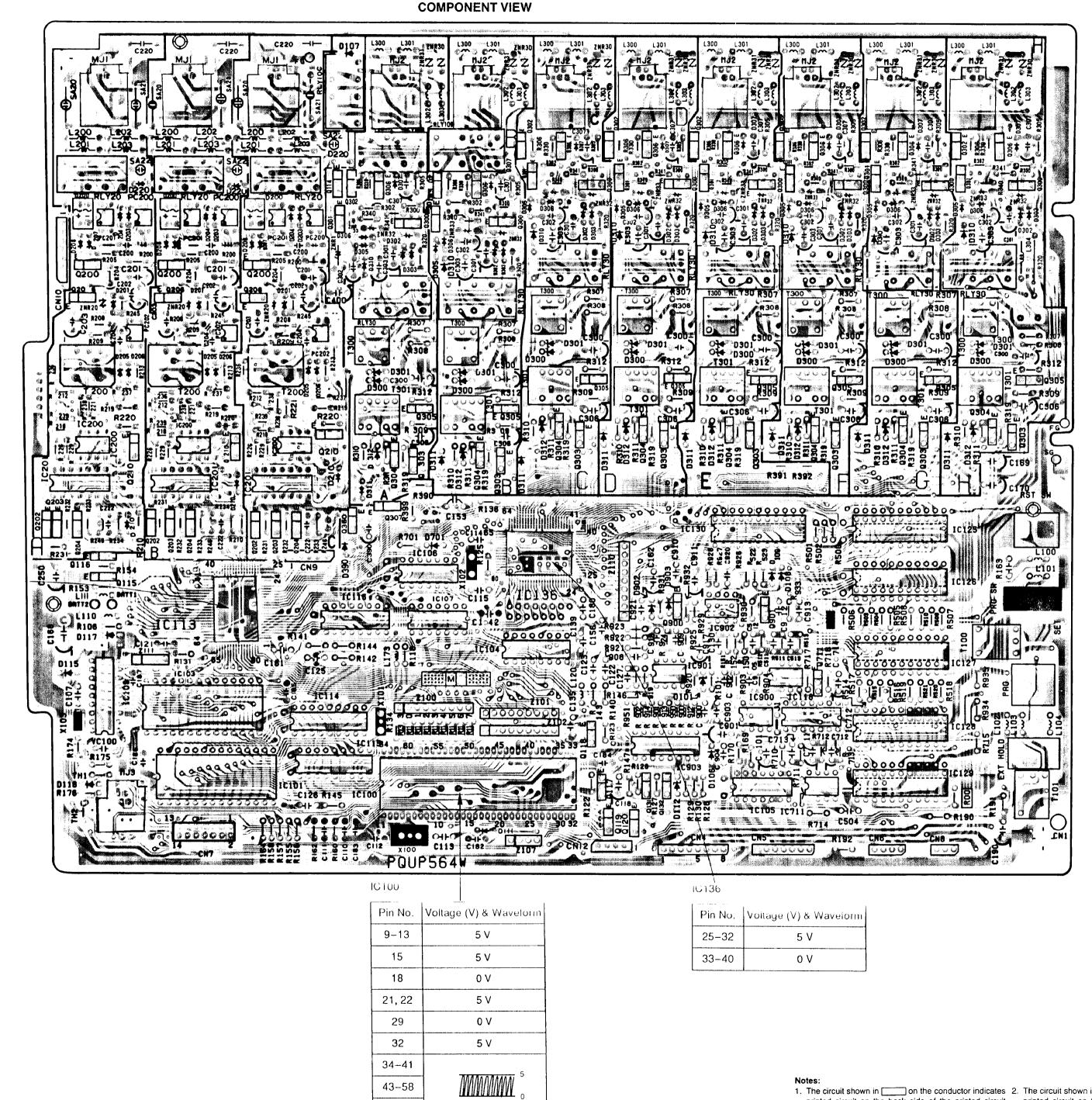
BLOCK DIAGRAM





22





5 V 38, 39 5 V 0 V 41 5 V 45, 46 47 0 V 48, 49 5 V 0 V 5 V 53 0 V 54 5 V 0 V 0 V 57, 58 5 V 59 0 V 60 5 V 61 0 V 64 5 V

οV

---- 5 ---- 0

0 V

13, 14

15

16

17

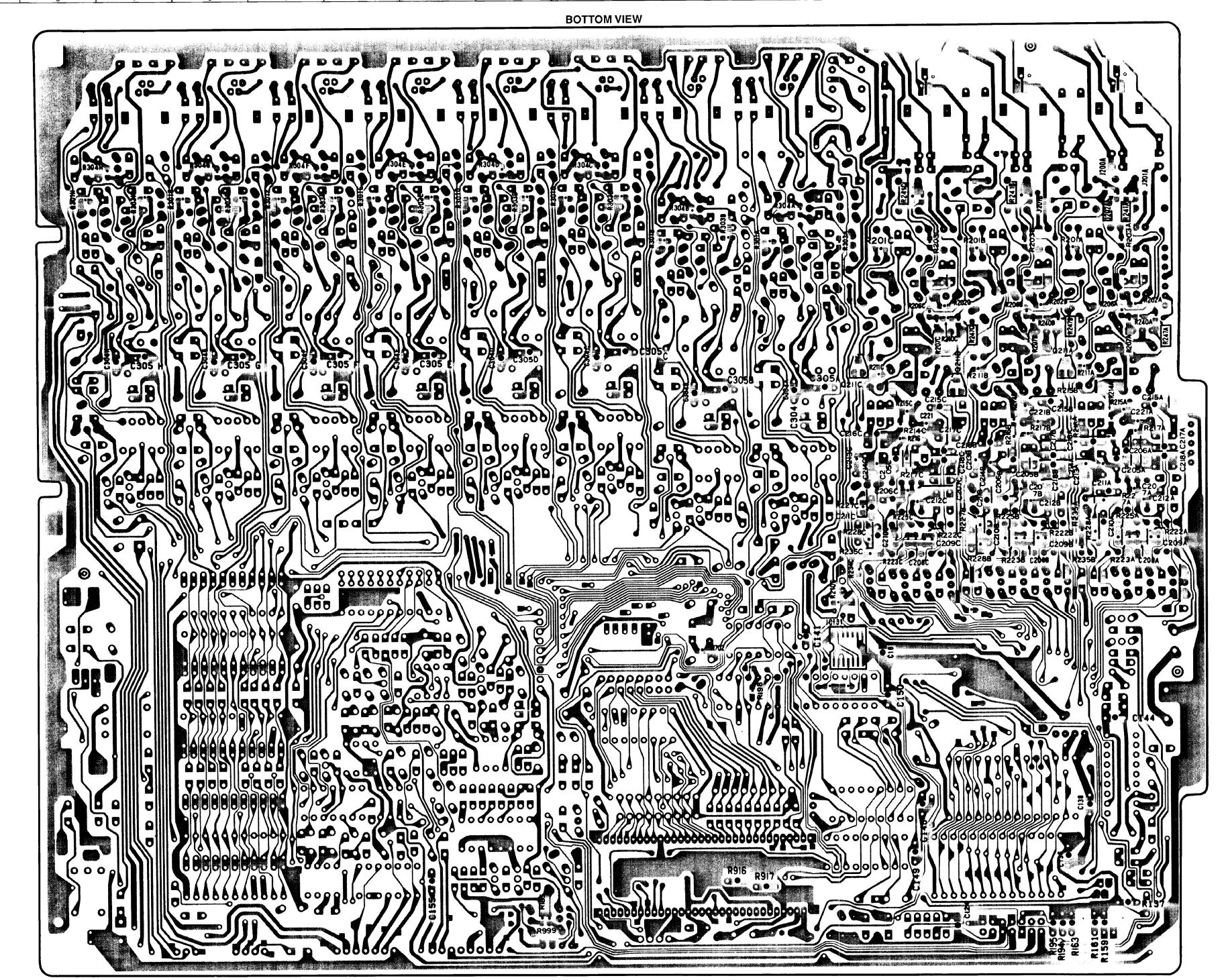
18, 19 21

24 - 26

1. The circuit shown in ____ on the conductor indicates 2. The circuit shown in ____ on the conductor indicates 3. TR Polarity printed circuit on the back side of the printed circuit printed circuit on the front side of the printed circuit Q

28

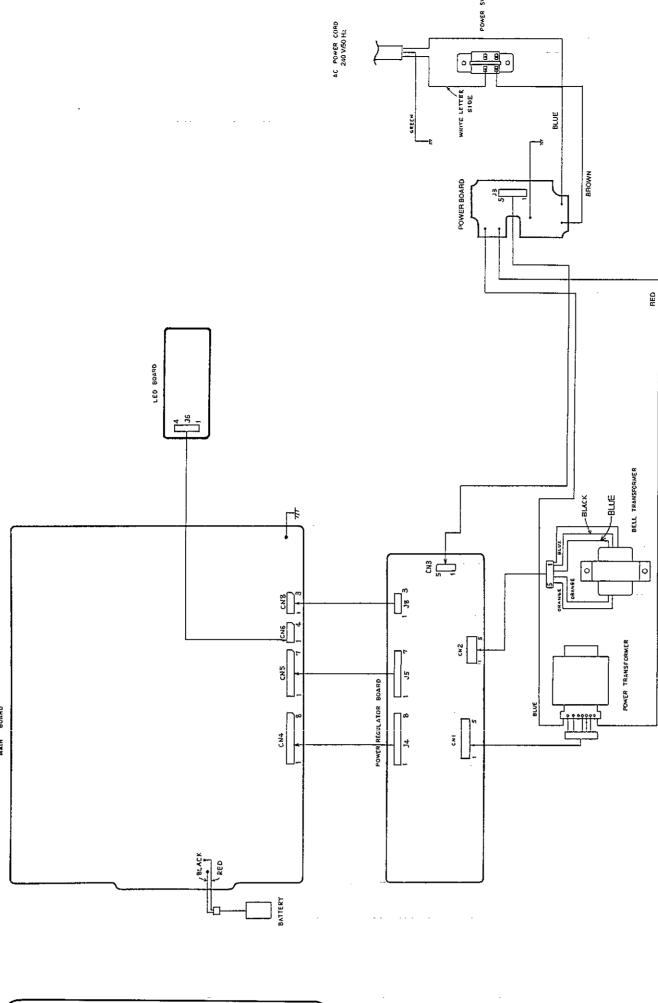
62,63

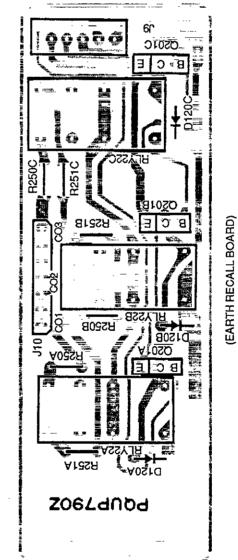


9

CIRCUIT BOARD

COMPONENT VIEW

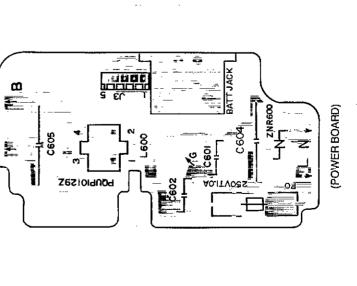


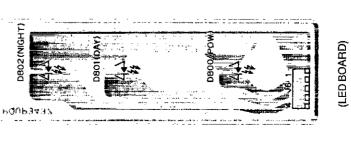


35

34

33





Ω

KX-T30810BE-2

KX-T30810BE-2

HOW TO REPLACE FLAT PACKAGE IC

■ PREPARATION

OR Almil Solder KR-19, KR-19RMA • SOLDER Sparkle Solder 115A-1, 115B-1

... Recomended power consumption will be between 30w to 40w.

Temperature of Copper Rod 662 ±50° F (350 ±10° C) Soldering iron

(An expert may handle 60~80w iron, but beginner might damage foil by overheating) Specific gravity 0.863

(Original flux will be replaced daily.)

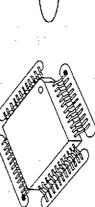
■ PROCEDURE

1. Temporary fix FLAT PACKAGE IC by Soldering on marked 2pins.

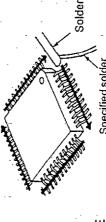
.....Temporary soldering point.

'Most important matter is accurate setting of IC to the corresponding soldering foil.

2. Apply flux for all pins of FLAT PACKAGE IC.



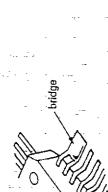
3. Solder employing specified solder to direction arrow, as slide the soldering iron.



■ MODIFICATION PROCEDURE OF BRIDGE

1. Re-solder slightly on bridging portion.

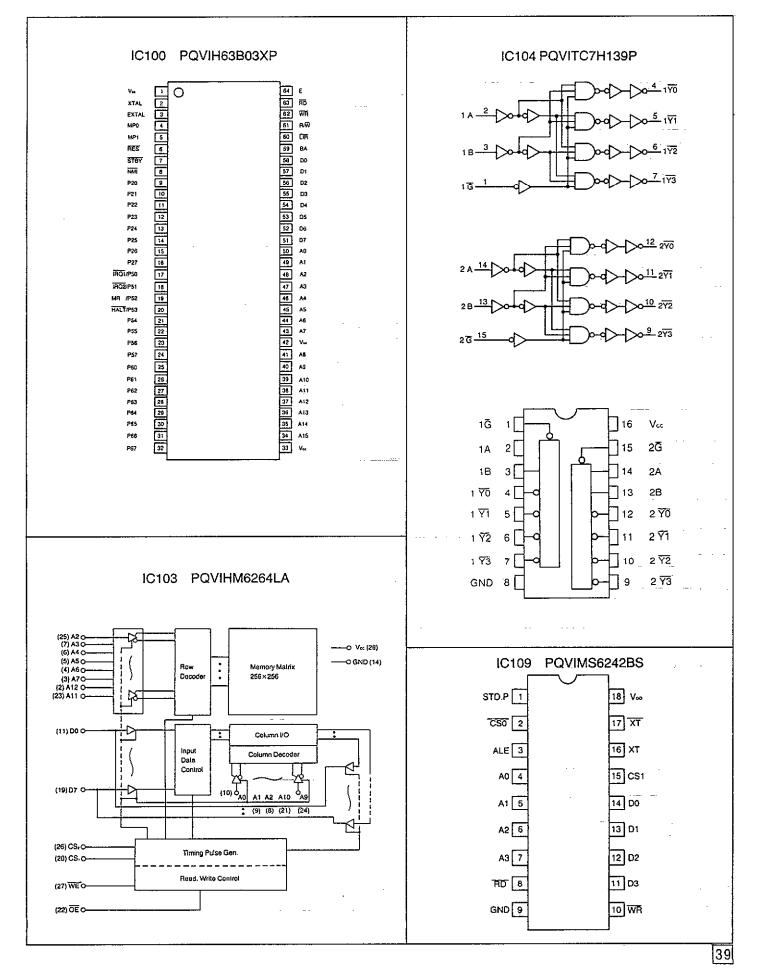
2. Remove remained solder along pins employing soldering iron as shown in below Figure.

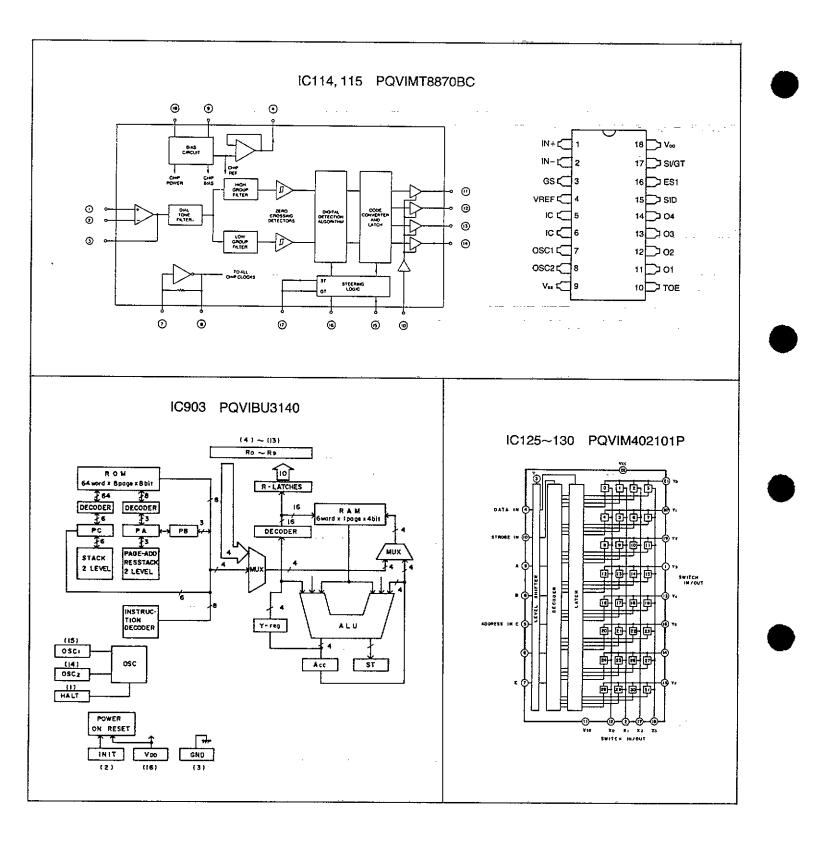


38

37

IC BLOCK DIAGRAM

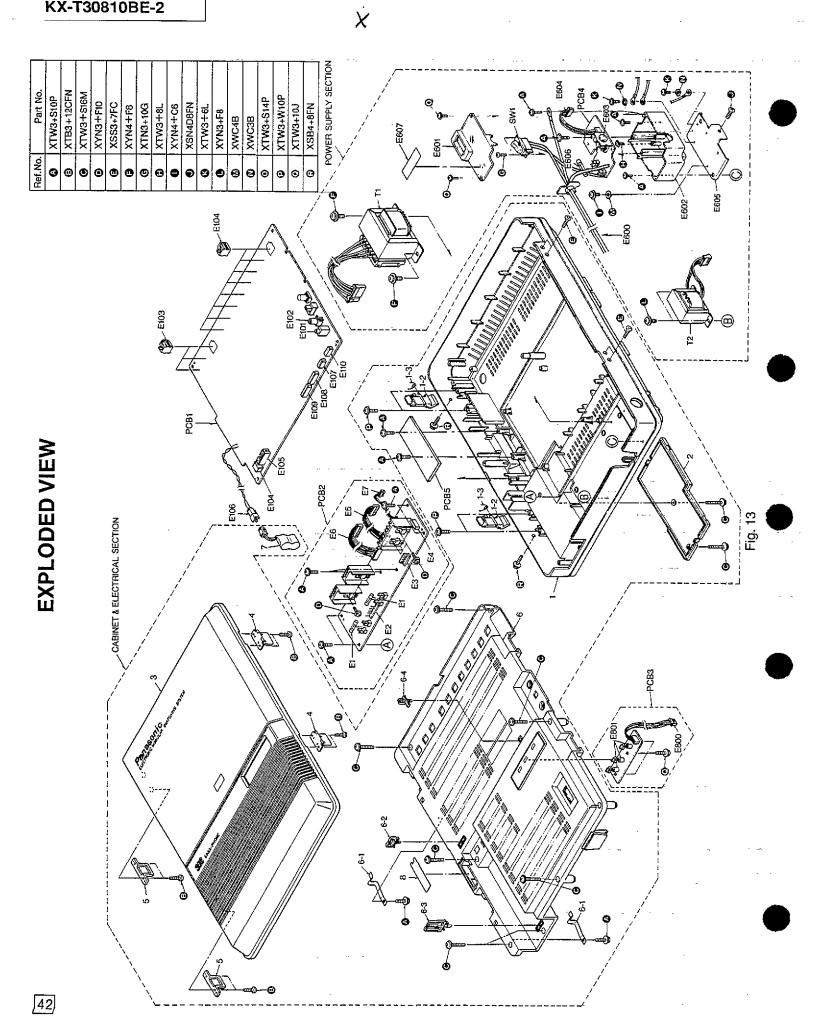




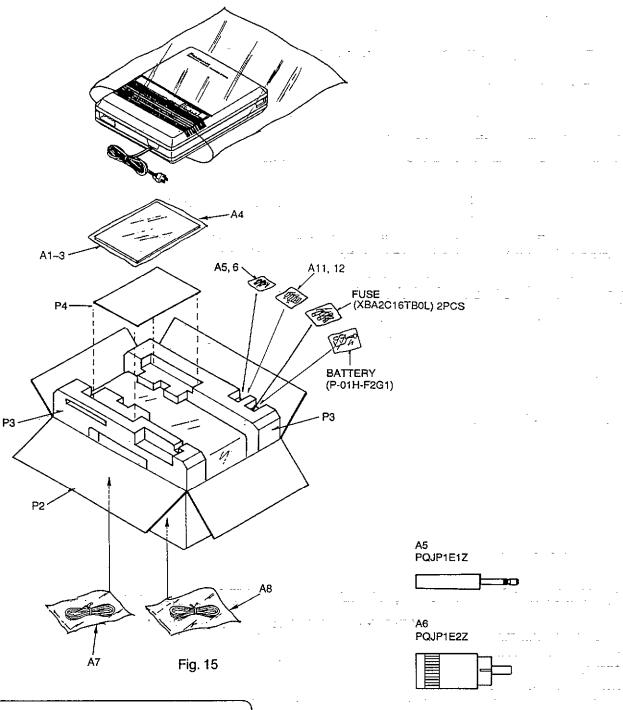
TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

132 PQVIM78L18AP	PQVIL78M12CV	PQVITC7H04P PQVINJM4011BC PQVIPD4066BC	PQVIH63B03XP	12 11 11 PQVIM402101P
28 15 14 14 PQVIHM6264LA PQWIT30810M2	9 8 PQVITC7H139P	64 41 40 65 25 80 1 PQVI671152F PQVI672191F	8 5 4 1 1 PQVINJM4558D	10 18 1 PQVIMS6242BS
10 10 9 PQVIMT8870BC	9 16 1 PQVITP5089N	9 16 1 PQVIBU3140	14 1 B	PQVIM7H32P
8 ************************************	PQVIPD4066BC	B C E 2SD1275 2SD1406	· .	E C B
E C B 2SC2235	E C B 2SC2878	E C B 2SA1626	PQVD2B4B41	DTA124XA DTC143XA PQVTJA101R PQVTJC501Q PQVTDTC114Y PQVTJC32725 2SD637 2SD639
Cathode	1SS131 1SV124 1SR35-200 MA4030 PQVDHZS2B1	Anode	MA4039 de MA4047 MA4051 MA4062 MA4091 PQVDHZ7A2	Anode Cathode
Anode Cathode LN220RPH LN320GPH				

LN420YPH



ACCESSORIES & PACKING MATERIALS



WARNING

Interconnection directly, or by way of other apparatus, of ports marked in accordance with 4.3.1(a) with ports not so marked may produce hazardous conditions on the BT network and that advice should be obtained from a competent engineer before such a connection is made.

The connection to the BT network must be unplugged before the earth is disconnected.

The connection to the BT network must not be hard wired.

NOTE: An appropriate means of connecting the apparatus to protective earth is by hard wiring.

'Prevention of access by user. This apparatus is intended to be accessible only to authorized personnel. This apparatus must be installed in a locked room or similar environment, such that user-access is prevented. Failure to prevent such user-access will invalidate any approval given to this apparatus.'



					_					
)	REPL	ACEM	ENT	PAF			-			
Notes:										
1. RTL (Retention										
The marking	(RTL) Ind	icates tha	it the	Retent	tio	n Time I	s limited f	or this ite	m.	
After the disc	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 saf										
Components	ldentified	by the 🐧	mark	specia	al i	characte	ristics im	portant		
for safety.										
When replaci	ng any of	these co	mpon	ents, u	JSE	only m	anufactur	er's spec	ified	
parts.										
3. The S mark li			andar	d parts	a	nd may	differ fron	produci	ion parts.	
4. RESISTORS Unless other										
All resistors a		•	inna	n 14-10	301	oko.				
All capacitors										
*Type &Watta				ημ		- н				
Type	•									
ERC: Solid	ER)	(: Metal F	ilm	PC	QR	D: Carb	on			
ERD; Carb				EF	RS	: Fusible	Resistor	•		
PQRD: Ca	rbon ERC	D: Metal F	llm	EF	₹F:	: Cemen	t Resistor	,		
Wattage								-		
10, 16: 1/8		25: 1/4W		12: 1/2	2V	<u>v</u>	1: 1W	2: 2W	3: 3W	
*Type & Volta: Type	ge or Cap	acitor								
ECFD: Se	ni-Condu	ctor	FCC	D EC	ΚΓ	FORT	PQCBC:	Commi		
ECQS: Sh				•		•	: Polvest		•	
POCUV: C						Electro	,	.,		
ECOMS: N	•					ropylene	•			
Voitage					4.11					
ECQ Type			ECS	Z Туре	₹		Ot	ners		
	ECQV				_					
1H; 50V	05: 50			3.15V	ı	0J: 6.3\		1V: 35	•	
2A: 100V	1: 100	-		10V	ı	1A: 10\		50, 1H:		
2E: 250V	2: 200\	٧ .		35V	-	1C: 16\		1J: 63\		
2H: 500V			OJ; 8	5.3V		1E, 25:	25V	2A: 10	V	

Ref. No.	Part No.	Part Name & Description	Pcs
	CAE	BINET & ELECTRICAL PARTS	<u>i</u>
1	PQYM30810BE2	REAR CABINET ASS'Y	1
1-2	PQHR9120Y8	ноок	2
1-3	PQUS91Z	SPRING, HOOK	2
2	PQKE31Z8	CABINET DOOR	1 1
3	PQYF130810E2	FRONT CABINET ASS'Y	1
4	PQBH2Z	HINGE-A	2
5	PQHR9121Z8	HINGE-B	2
6	PQYF230810E2	INSIDE COVER ASS'Y	1
6-1	PQUS102Z	LEAF SPRING	2
6-2	PQHR118Z	CARD HOLDER-A	1
6-3	POHR119Z	CARD HOLDER-B	1
6-4	PQHR120Z	CARD HOLDER-C	1
7	P-01H-F2G1	BATTERY	1
8	PQUV50Z	BATTERY COVER	1
9	PQQT8002Z	LABEL, BATTERY	1
	ACCESSORI	ES AND PACKING MATERIALS	
A1	PQQX10361ZUK	INSTALLATION MANUAL A	1
A2	PQQX10362ZUK	INSTALLATION MANUAL USER GUIDE ADDITIONAL INSTALLATION A	1
A3	PQQX10150ZUK	ADDITIONAL INSTALLATION A	1
		MANUAL	
A4	XZB25X34A04	PROTECTION COVER FOR DOCUMENTS	1
A5	PQJP1E1Z	PLUG-A	1
A6	PQJP1E2Z	PLUG-B	1
A7	PQJA150Z	TEL. CORD(3 PIN) (FOR CO LINE)	.А. з
8A	POJA151Z	TEL. CORD(4 PIN) (FOR EXT LINE)	8
A9	PQQT9421Z1	LABEL, SOCKET	1
A10	PQQT9423Z1	LABEL, EXT/CO	1
A11	PQHE10Z	PLUG	3
A12	POHE5008Z	SCREW	3
P1	Not Used	j	
P2	POPK1101WUK	PACKING CASE	1
P3	PQPN9053Z	CUSHION COMPLETE (L, R SIDE)	1
P4 i	POPN6687	CLISHION	

Ref. No,	Part No.	Part Name & Description	Pcs
	M	L AIN BOARD PARTS	ļ
PCB1	PQWP130810E2	MAIN BOADD ACCIV (DTL)	т .
roa:	PGWP 130810E2	MAIN BOARD ASS'Y (RTL)	1
		(100)	
IC100	PQVIH63B03XP	(ICs)	1
IC101	PQWi30810BE2	IC	1
IC102 IC103	Not Used	ا ا	
IC103	PQVIHM6264LA PQVITC7H139P	IC S	1
IC105	PQVITC4011BP	ic s	
IC106	PQVITC7H04P	IC s	1
IC107 IC108	PQVIM7H32P Not Used	IC s	1
IC109	PQVIMS6242BS	IC	1
IC110-112	Not Used		'
IC113	PQVI672191F	IC	1
IC114, 115 IC116	POVIMT8870CE	IC S	1
IC117	PQVITP5089N Not Used	IC	1
IC118	PQVINJM4558D	IC s	1
IC119-124	Not Used]
IC125-130	PQVIM402101B	IC .	6
IC131 IC132-135	PQVISN7H02S Not Used	IC	1 1
IC136	PQVI671152F	IC	1
IC200A, 200B	PQVINJM4558D	IC s	1
,200C			ŀ
IC201A,201B ,201C	PQVIPD4066BC	ic s	3
IC900, 901	PQVINJM4558D	lic s	3
,902]
IC903	PQVIBU3140	IC	1
	j		
	ľ	(TRANSISTORS)	
Q114, 115	PQVTDTC143XS	TRANSISTOR(SI)	3
,116		, ,	-
Q117, 118	POVTDTC144ES	TRANSISTOR(SI)	2
Q119, 120 Q131, 132	PQVTDTA143EA	TRANSISTOR(SI) S	,
Q200A, 200B	2SA1626	TRANSISTOR(SI) S TRANSISTOR(SI)	2
,200C	20111020		"
Q201A, 201B	Not Used		1
,201C Q202A, 202B	PQVTDTC144ES	TRANSISTORICIL	
,202C, 203A	1 GVIDICINAES	TRANSISTOR(SI)	9
,203B, 203C			
,204A, 204B			!
,204C	necotoo	TRANSISTORIO	_
Q206A-206C Q210A,210B	2SC2590 DTA124XA	TRANSISTOR(SI) TRANSISTOR(SI) S	3
210C		3	
Q211A-211C	PQVTDTC114EU	TRANSISTOR(SI)	3
Q300A-300H	PQVTJC32725	TRANSISTOR(SI) S	8
Q301A-301H Q302A-302H	PQVTJC33725 PQVTDTC114Y	TRANSISTOR(SI) S TRANSISTOR(SI)	8
Q303A-303H	DTA143EA	TRANSISTOR(SI)	8 8
Q304A-304H	PQVTJC501Q	TRANSISTOR(SI) S	8
Q305A-305H	POVTJA101R	TRANSISTOR(SI) S	8
Q306A-306H Q307	POVTJC501Q	TRANSISTOR(SI) S	8
Q360	PQVTDTC144ES 2SD1406Y	TRANSISTOR(SI) TRANSISTOR(SI) S	1
Q900	PQVTJC501Q	TRANSISTOR(SI) S	1
Q901	PQVTJC33725	TRANSISTOR(SI) S	1
		(DIODES)	İ
D101	MA4091	DIODE(SI)	1
D102-105	Not Used	, ,	
D106-109 D110	1SS131 Not Used	DIODE(SI)	4
D111	1SS131	DIODE(SI)	1
D112	MA4039	DIODE(SI)	i
· ·	Not Used		
D115	PQVD1SV124	DIODE(SI)	1

Ref. No.	Part No.	Part Name & Description		Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
D116, 117 D200A, 200B	1SS131 PQVDS1YB40F1	DIODE(SI) DIODE(SI)	S	2	T100, 101	POLT2D6A	(TRANSFORMERS) INTERFACE TRANSFORMER	2
,200C D201A, 201B ,201C	PQVDHZS2B1	DIODE(SI)		3	7200A, 200B ,200C ,300A-300H	ETA14Y85AY	INTERFACE TRANSFORMER S	11
D202A-202C D203A, 203B ,203C, 204A	Not Used 1SS131	DIODE(SI)	s	6	T301A-301H	ETE13K38AY	PULSE TRANSFORMER S (SWITCHES)	8
,204B, 204C D205A, 205B ,205C, 206A	MA4047	DIODE(SI)		6	SW100 SW101	PQSH1A12Z PQSS2A20Z	SWITCH, RESET SWITCH, SYSTEM PROGRAM	1
,206B, 206C D207A, 207B ,207C, 208A	MA4039	DIODE(SI)		6	RLY10A, 10B ,10C	PQSL49Z	(RELAYS) RELAY S	3
,208B, 208C D209A-209C D210A-210C	Not Used 1SS131	DIODE(SI)	s	6	RLY20A, 20B ,20C ,30A-30H	POSL41Z	RELAY . S	11
,220A-220C D300A-300H ,301A-301H	MA4047	DIODE(SI)		16	VC100	POCVTZB30B	(VARIABLE CAPACITOR)	1
D302A-302H ,303A-303H ,305A-305H	188131	DIODE(SI)	s	68	TH1	PORRTS104U	(THERMISTORS) THERMISTOR	1
,306A-306H ,307A-307H ,310A-310H					TH2	PORRTS203U	THERMISTOR	1
,311A-311H ,312A-312H ,390, 701	!				PC200A, 200B ,200C	PQVIPC814K	(PHOTO ELECTIC TRANSDUCERS) PHOTO COUPLER S	3
,902, 903					PC201A, 201B ,201C	PQVITLP627	PHOTO COUPLER	3
		(VARISTORS)			PC202A, 202B ,202C	PQVIPC817K	PHOTO COUPLER S	3
ZNR20A, 20B ,20C ZNR30A-30H	PQVDNV039D03	ZENER	s s	3 32	C101	ECEA1EU101	(CAPACITORS)	1
,31A-31H ,32A-32H ,33A-33H	. 41511135533			J.	C102-106 C107 C108, 109	Not Used ECQM1H472JV Not Used	0.0047	1
SA20A, 20B ,20C, 21A	PQVDDSS301L	SURGE ABSORBER	s	6	C110, 111 C112, 113 C114, 115	ECCD1H150JC ECCD1H220JC	0.01 S 15P S 22P	2 2 2
,21B, 21C SA22A-22C ZNR1	PQVDRA311PT2 ERZC10DK681	SURGE ABSORBER SURGE ABSORBER		3	C116, 117 C118 C119, 120	Not Used ECEA1HU100 Not Used	10	1
	CHEO NO NO	(CRYSTAL OSCILLATORS)		•	C121 C122, 123 C124	ECKD1H223MD ECQV1H104JZ ECUV1H103KB	0.022 S	1 2
X100 X101	POVCK6000N3Z POVCX3579H5R	CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR	s	1	C125, 126, 127 C128, 129	ECQV1H104JZ Not Used	0.01	3
X102 X103	PQVCX4000N8Z PQVCL3276N4Z	CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR	S	1	C130 C131-134 C135	ECKD1H102JA Not Used ECKD1H223MD	0.001 S 0.022s	1
	PQRSLD8X473J		s	3	C136 C137 C138	ECUV1H223MD Not Used ECUV1H223MD	0.022	1
Z107 Z110 Z111	PQRSLD3X223J PQRSLD8X222J PQRSLD3X472J		s s	1 1	C139 C140 C141	ECKD1H223MD Not Used ECUV1H223MD	0.022 S 0.022	1
		(COILS)	١			Not Used Not Used ECUV1H223MD	0.022 S	1
L100-103 L104 L105-109	ELEPK820KA PQLQZM2R2K Not Used	CHOKE COIL CHOKE COIL	s s	1	I .	Not Used ECUV1H223MD Not Used	0.022 ··· s	2
L110, 111 ,120, 173 ,300A-300H	PQLQZM2R2K	CHOKE COIL	s	36		ECUV1H223MD Not Used ECCD1H151JC	0.022 150P S	1
,301A-301H ,302A-302H ,303A-303H					C154 C155	Not Used ECUV1H223MD	0.022 0.022	1
L200A-200C ,202A-202C		CHOKE COIL		6	C157-160 C161	Not Used ECQV1H104JZ	0.1	1
L201A-201C ,203A-203C		CHOKE COIL		6	C163		100 S 0.1	1 1
L304	ELEA100KA	CHOKE COIL	<u>s </u>		C164-167	Not Used	<u> </u>	

Ref. No.	Part No.		Value	Pcs	Ref. No.	Part No.	Value	Pcs
C168	ECEA1CSS332	3300		1 1	C914-916	Not Used		
C169, 170	ECEA1EK470	47		2	C917	ECEA1EU470	47	1
C171-179	Not Used				C918	ECQM1H332JV	0.0033	1
C180	ECQV1H104JZ	0.1		1 1	C919	Not Used	1	1
C181	ECUV1H223MD	0.022		1	C920	ECCD1H681KB	680P	1
C182-184	ECQV1H104JZ	0.1		3	C921	ECCD1H151JC	150P S	1
C185	ECCD1H680JC	68P		1	11		1.33.	
C186, 187	ECQV1H104JZ	0.1		2	1 1	1	(RESISTORS)	
C190	ECEA1HU2R2	2.2		1 -	J101, 103, 104	PQ4R10XJ000	0	3
C200A, 200B	ECQE2185KS	1.8		3	J200A, 200B	PQ4R10XJ000	ĺo	6
,200C	-	1		1 1	200C, 201A	T Q TITLE ON THE STATE OF THE S	ľ	"
C201A, 201B	ECEA1HU220	22		3	201B, 201C	İ		
,201C	L	1			<u> </u>			
C202A, 202B	ECEA1HU330	33		3	R101	ERDS2TJ272	2.7K	1
,202C		1		1 _	R102-105	Not Used	l	
C203A, 203B	ECEA1HU2R2	2.2		3	R106	ERDS2TJ821	820	1
,203C					R107-109	Not Used		1
C204A, 204B	ECQV1H274JZ	0.27		3	R110-118	ERDS2TJ151	150	9
,204C	1			1	R119-121	Not Used	Į	i
C205A, 205B	ECUV1H563MD	0.056		6	R122	ERDS2TJ103	10K	1
,205C, 206A		i		1	R123	ERDS2TJ223	22K	1
,206B, 206C		1		1	R124	Not Used		
C207A, 207B	PQCUV1H820JC	82P		3	R125	ERDS2TJ105	1M	1
,207C	ţ	Ţ		ļ :	R126	ERDS2TJ222	2.2K	1
C208A, 208B	Not Used			1	R127, 128	ERDS2TJ103	10K	2
,208C	1	i			R129	ERDS2TJ561	560	1 1
C209A, 209B	PQCUV1H103KB	0.01		3	R130	ERDS2TJ681	680	1 1
,209C		1		1	R131	ERDS2TJ103	10K	1
C210A, 210B	ECUV1H563MD	0.056		6	R132	Not Used	13.1	l '
,210C, 211A		15,555			R133, 134	ERDS2TJ473	47K	2
,211B, 211C		i		1	R135	Not Used	''''	~
C212A, 212B	PQCUV1H101JC	100P		3	R136	ERDS2TJ103	10K	1
,212C	200711110100	1001		"	R137	PQ4R18XJ223	22K	
C213A, 213B	PQCUV1H101JC	100P		a	R138, 139	Not Used	ZZR	'
,213C	I COOVIIII 10100	1000		, ,	R140	ERDS2TJ104	100K] .
C214A, 214B	PQCUV1H820JC	82P		3	R141	ERDS2TJ333	33K	¦
,214C	FGC0711102030	DZP		"	R142	ERDS2TJ334	330K	1 :
C215A, 215B	ECUV1C154JB	0.15		12	R143	ERDS2TJ104	100K	1 :
	COOV 10 13-08	0.13		۱۴ ا	R144	ERDS2TJ333	33K	1
,215C, 216A						1	1	
,216B, 216C	1	-		-	R145	ERDS2TJ334	330K	1
,217A, 217B	i	Į.		1	R146	ERDS2TJ472	4.7K	1
,217C, 218A	i	İ			R147	ERDS2TJ683	68K	1
,218B, 218C				1 _	R148, 149	Not Used	1	
C220A, 220B	ECKDKC222KB	0.0022		3	R150	ERDS2TJ102	1K	1
,220C		L	_		R151	ERDS2TJ333	33K	1
C221A, 221B	PQCUV1H102J	0.001	5	3	R152	ERDS2TJ223	22K	1
,221C		<u> </u>			R153, 154	ERDS2TJ102	1K	2
C222A, 222B	ECQV1H394JZ	0.39		3	R155-158	ERDS2TJ103	toK	4
,222C	1				R159	PQ4R18XJ472	4.7K	1
C240A,240B	Not Used	1			R160	ERDS2TJ103	10K	1
,240C		ĺ			R161	PQ4R18XJ472	4.7K	1
C250	ECEA1EU102	1000		1	R162	ERDS2TJ103	10K	1
C300A-300H	ECQV1H824JZ	0.82		8	R163	PQ4R18XJ472	4.7K	1
C301A-301H	ECEA1HU4R7	4.7		16	R164	ERDS2TJ103	10K	1
,302A-302H					R165-168	Not Used		
C303A-303H	ECEA1HU4R7	4.7		8	R169, 170	ERDS2TJ223	22K	2
C304A-304H	ECUV1H103KB	0.01	5	16	R171, 172, 173	Not Used		1
,305A-305H	ļ	i		1	R174	ERDS2TJ225	2.2M	1 1
C306A-308H	ECEA1HU010	1		8	R175	ERDS2TJ154	150K	1 1
C307A-307H	ECQV1H393JZ	0.039		8	R176	ERDS2TJ223	22K	li
C390	ECEA1EU101	100		1	R177-184	Not Used		l '
C400	ECEA1VU471	470		1 1	R185	PQ4R10XJ103	10K	1
C500-504	Not Used			1 1	R186-189	Nat Used		l `
1	ECQV1H273JZ	0.027		3	R190, 191	ERDS2TJ103	10K	2
, , , , , , , , , ,	1	1		1 - 1	R192	ERDS2TJ102	1K	1
C900	ECQV1H473JZ	0.047		1	R193	Not Used	I	1 '
C901	ECQV1H104JZ	0.1		1	R194, 195	PQ4R18XJ472	4.7K	2
C902	ECOM1H332JV	0.0033			R196, 197	Not Used		-
C903	ECQV1H683JZ	0.068			R198	PQ4R10XJ103	10К	1
C904	ECGV1H104JZ	0.1		1	R200A, 200B	PQRD12VJ822	8.2K S	3
C905	ECGM1H682JV	0.0068		'	,200C	. 31101240022	5	l
i i	Not Used	I		'	4 ' '	DOMBION IEE	FEO	3
1 '	1 -	0.001		1 .	R201A, 201B	PQ4R10XJ561	560	ا
C908	ECQM1H102JV	0.001	s	1 1 1	,201C	DO4B40V 1404	10016	_
C909			9	1 1	R202A, 202B	PQ4R10XJ104	100K	3
10040	ECKD1H102JA		_	1 1		1	1	1
C910, 911	ECEA1HU4R7	4.7	_	2	,202C	DO 404-041	. ===	_
C910, 911 C912 C913			s	2		PQ4R10XJ472	4.7K	3

	Ref. No.	Part No.		Value	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs	\Box
R204	4A, 204B	PORD12VJ330	33		3	R320A-320H	PQRD2TJ102	1K	8	7
,204	IC	Į.	l		ļ [R330A-330H	ERDS2TJ683	68K	8	- [
R205	5A-205C	ERDS2TJ101	100		3	R390	ERDS2TJ822	8.2K	1	
R206	5A, 206B	PQ4R10XJ103	10K		3	R391, 392	ERDS2TJ103	10K	2	
,206	SC	1	·		!	R399	ERDS2TJ562	5.6K	1	
R207	7A, 207B	PQ4R10XJ472	4.7K		3	R340A-340H,	ERDS2TJ470	47	16	
,207	7C					R341A-341H	1		Į.	
R208	8A, 208B	ERD25TJ390	39	s	3	R500, 501, 502	ER016CKF1151	1,15K	3	
,208		<u> </u>	<u>[</u>		!!	R503-510	ER016CKF49R9	49.9	8	ļ
, ·	9A, 209B	ERDS2TJ472	4.7K		3	R511, 512, 513	ER016CKF6491	6.49K	3	ı
.209	-	1				R514-521	ER016CKF1101	1.1K	8	
1.	0A, 210B	PQ4R10XJ183	18K		3	R522, 523	ER016CKF1151	1.15K	2	- [
,210						R701	ERDS2TJ821	820	1	
	1A, 211B	PQ4R10XJ392	3.9K		3	R702	PQ4R10XJ102	1K	1	
,211	-		1			R900, 901, 902	ERDS2TJ104	100K	3	
1 '	2A, 212B	ERDS2TJ681	680		6	R903	ERDS2TJ224	220K	1	ı
	C, 213A	21150210351		•		R904	ERDS2TJ124	120K	1	
	38, 213C					R905-911	Not Used	TEXIT .	1 '	
	4A, 214B	PQ4R10XJ821	820		3	R912, 913, 914	ERDS2TJ103	10K	3	ł
,214		1 2411100021	J020			R915, 918	Not Used	Tok	3	
	5A, 215B	PQ4R10XJ122	1.2K		3	R916, 917	PQ4R18XJ222	8.2K	2	1
,215		T GTITIONOTEE	1		"	R919	ERDS2TJ473	47K	1 1	
	5A, 216B	PQ4R10XF1003	100K		6	R920	ERDS2TJ103	10K	1 '	-
	SC, 217A	, MITITUAL 1003	1.000		"	R921	ERDS2TJ823	82K	1 1	
	7B, 217C	ŧ.				l 1	ERDS2TJ102		1 '	
1 '	•	ER016CKF3003	300K		6	R922 R923		1K	1 1	
	8A, 218B 8C, 219A	- 10 10 OKI-3003	l con		"	R924	ERDS2TJ223 ERDS2TJ273	22K 27K		
,	9B, 219C	İ			i I	R925	ERDS2TJ681	680	1 '	- [
	0A, 220B	ER016CKF3483	348K		3	R926		10K	1 1	
,221		Env100NF3463	3401		1 "	R927	ERDS2TJ103 ERDS2TJ183	118K		- 1
	1A, 221B	ERDS2TJ471	470		6	R928	ERDS2TJ103	10K	1 !	
		Enu3210471	1470		ľ	R929	1 -	33K	1 !	
,221						R930	ERDS2TJ333	2.2K	1 1	
,226	SA, 2268		ł			R930	ERDS2TJ222	330K	1 1	
		PQ4R10XJ182	1.8K		3		ERDS2TJ334	•	1 '	
t t	2A, 222B	FQ4FIUAU102	1.01			R932, 933	ERDS2TJ472	4.7K	2	
,222		Alas I land	1			R934, 935	ERDS2TJ332	3.3K	2	
4	3A, 223B	Not Used	İ			R950	ERDS2TJ273	27K	1	
,223		70.4745464				R951	ERDS2TJ393	39K	1	Ų
	7A, 227B	PQ4R10XF1003	100K		6	R999	PQ4R10XJ183	18K	1	
4 '	7C, 228A	ļ	[! !]		ļ	ļ
	3B, 228C	F00400450450			_			(OTHERS)	i .	ı
	9A, 229B	ER016CKF3483	348K		3	E101	PQJJ1D3Z	JACK, EXTERNAL MUSIC	1	
,229						E102	PQJJ1G1Z	Jack, PAGING	1	
	0A-230C	Not Used			.	E103	PQJJ1TB25Z	JACK, CO (MJ1A, MJ1B, MJ1C)	3	- 1
	1A, 231B	ERDS2TJ473	47K		6	E104	PQJJ1TB25Y	JACK, STATION MODULAR &	9	- 1
	C, 232A				l i			DOORPHONE (MJ2A-2H, MJ3)	1	
	28, 232C	EDDOTTATO	1,714		ا ہا	E105	PQJP14D49Z	CONNECTOR PLUG, 14P (CN7)	1 1	
		ERDS2TJ473	47K		5	E106	PQJP2F4Z	CONNECTOR PLUG, 2P	1 1	
1 '	3C, 234A	Ī	1			E107	PQJP4D14Z	CONNECTOR PLUG, 4P (CN6)	1	
,234		DO 101-711-77	l		.	E108	POJP7D14ZUK	CONNECTOR PLUG, 7P (CN5)	1	
R234		PQ4R10XJ473	47K		1	E109	POJP8D14ZUK	CONNECTOR PLUG, 8P (CN4)	1	
	5A, 235B	PQ4R10XJ823	82K		3	E110	PQJP3D14ZUK	CONNECTOR PLUG, 3P (CN8)	1	
,235		L	L			E111	PQJJ1TB25Y	JACK, DOORPHONE (MJ3)	1]
1	5A, 236B	ERDS2TJ152	1.5K		12	E112	POJP5D14Z	CONNECTOR PLUG, 5P(CN9)	11_	_
	C, 237A		1				POWER REG	ULATOR BOARD PARTS		
	B, 237C		1					<u></u>		_
	8A, 238B	1	1		\ \	PCB2	PQWP230810E2	POWER REGULATOR P. C. BOARD	1	1
,238	3C, 239A					1	1	ASS'Y (RTL)	1	
,239	9B, 239C	İ				1			Ī	- [
R240	0A-240C	PQ4R10XJ121	120		3	1			1	
	5A-245C	ERDS2TJ821	820		3	1		(ICs)	1	-
R246	6A-246C	ERDS25TJ473	47K		3	IC1	PQVIM78L18AP	ic s	1	}
R300	300B	ERDS2TJ220	22		2	IC2	Not Used		Ī	-
R300	0C-300H	ERDS2TJ220	22		6	IC3	PQVIL78M12CV	IC S	1	
R301	1A-301H	PQ4R10XJ682	6.8K		8	IC4, 5	Not Used		1	- 1
4	2A-302H	ERDS2TJ220	22		8	IC6	PQVIHE4069BP	lic s	s 1	1
		PQ4R10XJ682	6.8K		8	IC7, 8	PQVIL78M15CV	1	2	1
1	3A-303H	-	6.8K		8	1 '		1	1	- }
	3A-303H 4A-304H	PQ4R10XJ682					1		1	- 1
1		PQ4R10XJ682 ERDS2TJ563	56K		8		1			,
F1305	4A-304H 5A-305H	ERDS2TJ563	56K		8	1	İ	(TRANSISTORS)		Ì
R308	4A-304H 5A-305H 6A-306H	ERDS2TJ563 ERDS2TJ682	56K 6.8K		8	01	2SD1275	(TRANSISTORS)	,	Ì
R305 R306 R307	4A-304H 5A-305H 6A-306H 7A-307H	ERDS2TJ563	56K			Q1	2SD1275	TRANSISTOR(SI) S		
R305 R306 R307	4A-304H 5A-305H 6A-306H 7A-307H 8A-306H	ERDS2TJ563 ERDS2TJ682 ERDS2TJ121	56K 6.8K 120		8 16	G2	PQVTJC501Q	TRANSISTOR(SI) S	i 1	
R305 R306 R307 ,306 R309	4A-304H 5A-305H 6A-306H 7A-307H 6A-306H 9A-309H	ERDS2TJ563 ERDS2TJ682 ERDS2TJ121 ERDS2TJ101	56K 6.8K 120		8 16 8	Q2 Q3	PQVTJC501Q 2SD1406	TRANSISTOR(SI) S TRANSISTOR(SI) S TRANSISTOR(SI) S	1 1	
R305 R306 R307 ,306 R305 R316	4A-304H 5A-305H 6A-306H 7A-307H 6A-306H 9A-309H 0A-310H	ERDS2TJ563 ERDS2TJ682 ERDS2TJ121 ERDS2TJ101 ERDS2TJ222	56K 6.8K 120 100 2.2K		8 16 8 8	Q2 Q3 Q4, 5	PQVTJC501Q 2SD1406 PQVTJC501Q	TRANSISTOR(SI) S TRANSISTOR(SI) S TRANSISTOR(SI) S TRANSISTOR(SI) S	1 1 2	
R305 R306 R307 ,306 R305 R316 R311	4A-304H 5A-305H 6A-306H 7A-307H 6A-306H 9A-309H 0A-310H 1A-311H	ERDS2TJ563 ERDS2TJ682 ERDS2TJ121 ERDS2TJ101 ERDS2TJ222 ERDS2TJ472	56K 6.8K 120 100 2.2K 4.7K		8 16 8 8	Q2 Q3 Q4, 5 Q6	PQVTJC501Q 2SD1406 PQVTJC501Q PQVTDTC143XS	TRANSISTOR(SI) S TRANSISTOR(SI) S TRANSISTOR(SI) S TRANSISTOR(SI) S TRANSISTOR(SI) S	1 1 2 1	
R305 R306 R307 ,306 R305 R316 R317	4A-304H 5A-305H 6A-306H 7A-307H 6A-306H 9A-309H 0A-310H	ERDS2TJ563 ERDS2TJ682 ERDS2TJ121 ERDS2TJ101 ERDS2TJ222	56K 6.8K 120 100 2.2K		8 16 8 8	Q2 Q3 Q4, 5	PQVTJC501Q 2SD1406 PQVTJC501Q	TRANSISTOR(SI) S TRANSISTOR(SI) S TRANSISTOR(SI) S TRANSISTOR(SI) S	1 1 2 1	

Ref. No.	Part No.	Part Name & Description	_	Pcs	Pcs	Ref. No.	Part Name & Description	Pcs
1101.110.	, arriva.	·		1 50		1107.1107		
D.	DOUDOB 4D 44	(DIODES)					LED BOARD PARTS	
D1 D2A, 2B	PQVD2B4B41 PQVDD1NL20	DIODE(SI) DIODE(SI)		1 2	PCB3	PQWP330810UK	LED P. C. BOARD ASS'Y (RTL)	1
D3, 4, 9, 10, 11		DIODE(SI)	s	8	1.000	1 C441 2000 (OOK	LEBT: O. BOARD ASST (ITTE)	i '
,14, 15, 17		, ,					(DIODES)	l
D5	Not Used				D800	LN220RPH	LED _	1
De	MA1068	DIODE(SI)	S	1 1	D801	LN420YPH	LED	1
D7	MA4200	DIODE(SI)		1	D802	LN320GPH	LED	1
D8	Not Used							
D12	MA4091	DIODE(SI)		1			(OTHERS)	
D13	MA4062	DIODE(SI)		1 1	E800	PQJS4L17Z	CONNECTOR SOCKET, 4P	1
D16	Not Used	0.005.00					(W/LEAD) (J6)	_
D18	MA4051	DIODE(SI)		1 1	E801	PQHR402Z	SPACER, LED	3
D19	155131	DIODE(SI)	s	1	<u> </u>	DOM:	ER SUPPLY PARTS	!
		(RELAY)			1	POW	EN SUPPLY PARTS	
RLY1	POSL50Z	RELAY		1	PCB4	PQWP430810E2	POWER P. C. BOARD ASS'Y (RTL)	ſ
· · · · · · · · · · · · · · · · · · ·	, GOLSOZ			'	1 004	FQW1 400010E2	(with/ C601, C602, C604, C605, A	
	İ	(CAPACITORS)					ZNR600, L600, E603, E604	
СЗ	EECW0H104Z1N	100000		1	1		and E606)	
C4	Not Used		- 1	'	: 1		1 2000)	ŀ
C5, 7	ECET35S222SW	2200	s	2			(CAPACITORS)	
C6	ECET50S682SW	6800	s	1	C601, 602	ECKDKD222MF	0.0022 S	2
C8	ECEA1HU101	100	-	i	C604, 605	ECQU2A473MN	0.047	2
C9	ECEA1VU471	470		1	'			1
C10	Not Used		ı				(VARISTOR)	
C11	ECEA1EU101	100		1	ZNR600	ERZC14DK471U	VARISTOR	1
C12	Not Used							
C13	ECEA1EU331	330		1			(SWITCH)	
C14	ECEA1HU100	10	S	1	SW1	EST15704V	SWITCH, POWER A	1
C15, 16	ECKD1H103KB	0.01		2				
C17	ECEA0JU222	2200 -		1			(TRANSFORMERS)	
C18	ECEA1HU100	10	S	1	T1	POLT5M9E1A	POWER TRANSFORMER A	1
C19	ECEA2AN100	10	ļ	1]	T2	POLT1K9M1A	BELL TRANSFORMER	1
C20	Not Used	1	- 1				l	
C21	ECEA1HU101	100	l	1	l		(COIL)	
	!				Fe00	PQLE61	COIL	1
		(RESISTORS)	- 1	1			(OTHERS)	
R1	ERDS2TJ332	3.3K	- 1	1	E600	PQWA30810BE2	POWER CORD ASS'Y	1
R2	ERDS2TJ102	1K		i 1	E601	PQUV36Y	POWER BOX COVER	1
R3	ERDS2TJ472	4.7K		' i I	E602	PQUV37Y	POWER BOX	i
R4	ERDS21J472 ERDS2TJ332	3.3K		- i I	E603	POJP7C1Z	CONNECTOR PLUG, 7P	1
R5	ERDS2TJ1332	1.2K		- i I	E604	PQJS5L36Z	CONNECTOR SOCKET, 7P	1
R6	ERDS2TJ102	1K		-	E004	FQ035L302	(W/LEAD) (J3)	'
R7	ERDS2TJ472	4.7K	- [1	E605	PQMD4012Y	BRACKET, POWER BOX	1
1	ERDS2TJ223	22K	- 1	1	E606	XBA2C10TB0L	FUSE	1
	EROS2TJ683	68K	- 1	2	E607	PQQT4181Z	LABEL	
R11, 12	PQRD2VJ2R7	2.7		2	1200.	I GG TTTOIL		
R13	ERDS2TJ102	1K	ı	ī		EARTH RECAL	L BOARD PARTS	
	Not Used			`				
	ERDS2TJ471	470		1	PCB5	PQWP730810BE	EARTH RECALL BOARD ASS'Y	1
	ERDS2TJ472	4.7K	ŀ	1		1	(RTL)	
l I	ERDS2TJ223	22K		1	1	1		
	ERDS2TJ473	47K	Į	1			(TRANSISTORS)	
	ERDS2TJ332	3.3K		1	Q201A-201C	DTC143XA	TRANSISTORS (SI)	3
	ERDS2TJ822	8.2K	İ	1			, , ,	
R21	ERDS2TJ274	270K	ļ	1	1		(DIODES)	
	Not Used	1	- 1	- 1	D120A-120C	188131	DIODES	3
R25, 26	ERDS2TJ222	2.2K	- 1	2	I			
R27, 28	ERDS2TJ223	22K		2	I	1	(RELAYS)	
R29, 30	PQRD1VJ3R3	3.3	1	2	RLY22A-22C	PQSL41Z	RELAY	3
R31	PQRD12TJ101	100		1				
}		1		- 1		1	(RESISTORS)	
		1	- 1	i	R250A-250C,	ERDS2TJ560	56	6
		(OTHERS)	1		251A-251C			
	XBA2C16TB0L	FUSE (F2, F3)	[2	1			
	PQJP5D48Z	CONNECTOR PLUG, 5P (CN1)	ı	1	1	1	(CONNECTORS)	
E3	PQJP5D30Z	CONNECTOR PLUG, 5P (CN2)	J	1	E200	PQJS5L38Z	CONNECTORS SOCKET, 5P(J9)	1
	PQJP5D14Z	CONNECTOR PLUG, 5P (CN3)		1	I	1	(W/Lead)	
E5	PQJS7L40ZUK	CONNECTOR SOCKET, 7P	- [1	E201	PQJS7L41Z	CONNECTORS SOCKET, 7P(J10)	1
		(W/LEAD) (J5)	- 1		1		(W/Lead)	
E6	PQJS8L39ZUK	CONNECTOR SOCKET, 8P	- 1	1	1			
		(W/LEAD) (J4)	- 1	1	1			
E7	PQJS3L46ZÜK	CONNECTOR SOCKET, 3P (J8) [1	[l l	
		1	- 1	- 1	I	1		
	<u> </u>	<u> </u>				1		

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