uniden®

SERVICE MANUAL

HARRY

ALIGNMENT PROCEDURE

Alignment of P.L.L.

1. Test Equipment Required

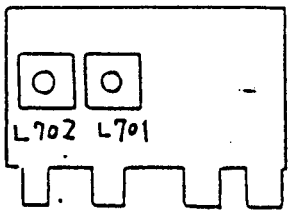
DC Power Supply : 8V(DC)　　DC voltmeter

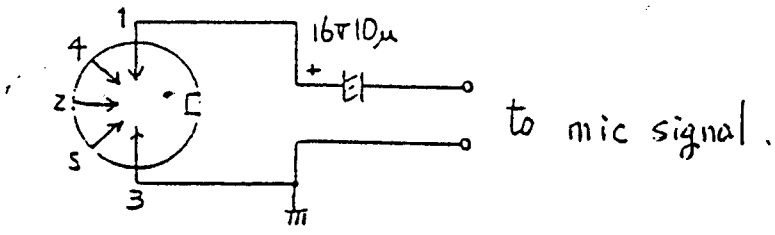
Oscillator　　: 10.2419 MHz

2. Alignment Procedure

Step	Preset to	Adjustment	Remarks
1	TX 40CH	L702	Connect a DC voltmeter to VCO. Adjust L702 for 4.5V ± 0.1V reading on the DC voltmeter.
2	RX 40cH	L701	Ditto

3. Alignment Points





Alignment of FM PCB

1. Test Equipment Required

DC Power Supply (DC 8V)	FM SG 450KHz
Oscilloscope	AC voltmeter 2
Oscillator	DC voltmeter

2. Alignment Procedure

PA : OFF

Step	Preset to	Adjustment	Remarks
1	RX FM SG : 3mV out 1kHz, ± 15kHz dev.	L601	Connect a DC voltmeter to between TP601 and GND. Adjust L601 for 4.5 ± 0.1V reading on the DC voltmeter. Check if voltage value is 150~350 mV.
2	TX Osc : 10mV 1kHz	VR601 middle position	Adjust VR601 for 4~9 mV reading on the AC voltmeter.

Alignment of Transmitter Section

1. Test Equipment Required

DC Power Supply (DC 13.8 V)

OSC : 1kHz

Deviation meter

Dummy load 50Ω

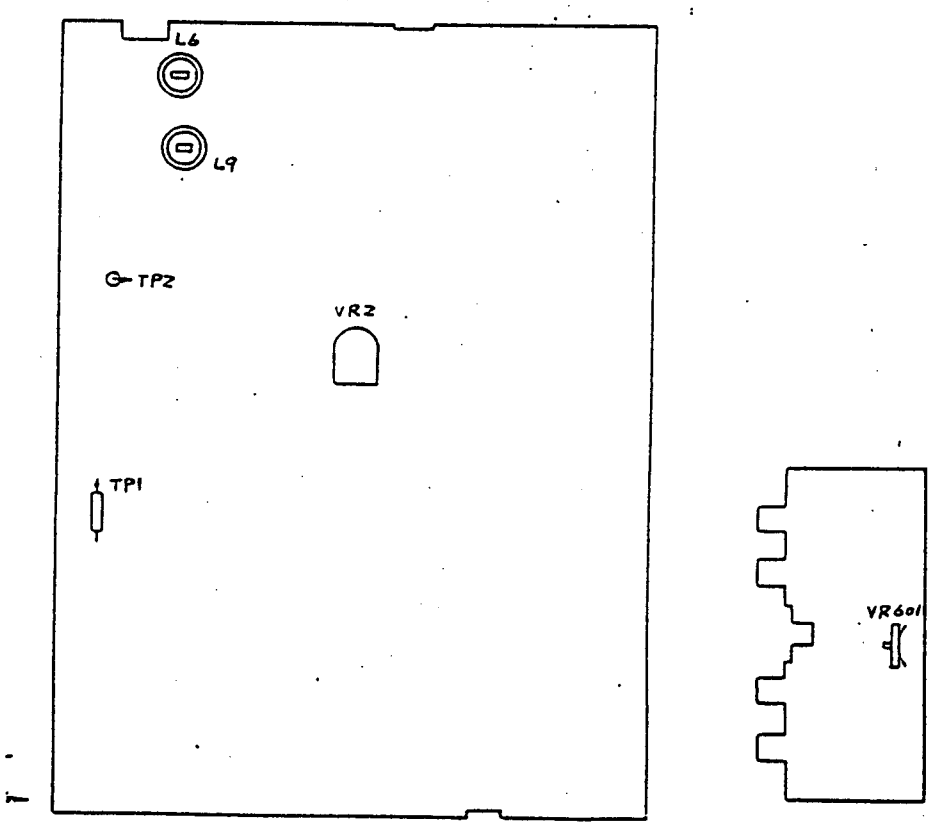
RF power meter

2. Alignment Procedure

Step	Preset to	Adjustment	Remarks
1	CH 19 AM Mod. 500mV input	L6 and L9	Connect the RF power meter to Antenna jack. Adjust coils for maximum reading on the RF power meter.
2	No. Mod. CH19	L6	Adjust L6(CW) for 4.0W reading on the RF power meter.
3	Ditto	VR2	Adjust VR 2 so that the 4th LED just turns on.
4	Mod. 30mV input CH 1 FM	VR601	Adjust VR601 for ± 3kHz dev. reading on the deviation meter.

Note : After Alignment, lock with paraffin the area of L6 and L9.

3. Alignment Points



Alignment of Receiver Section

1. Test Equipment Required

DC Power Supply : DC 13.8V
S.S.G.
Dummy load : 50Ω

2. Preparation for Alignment

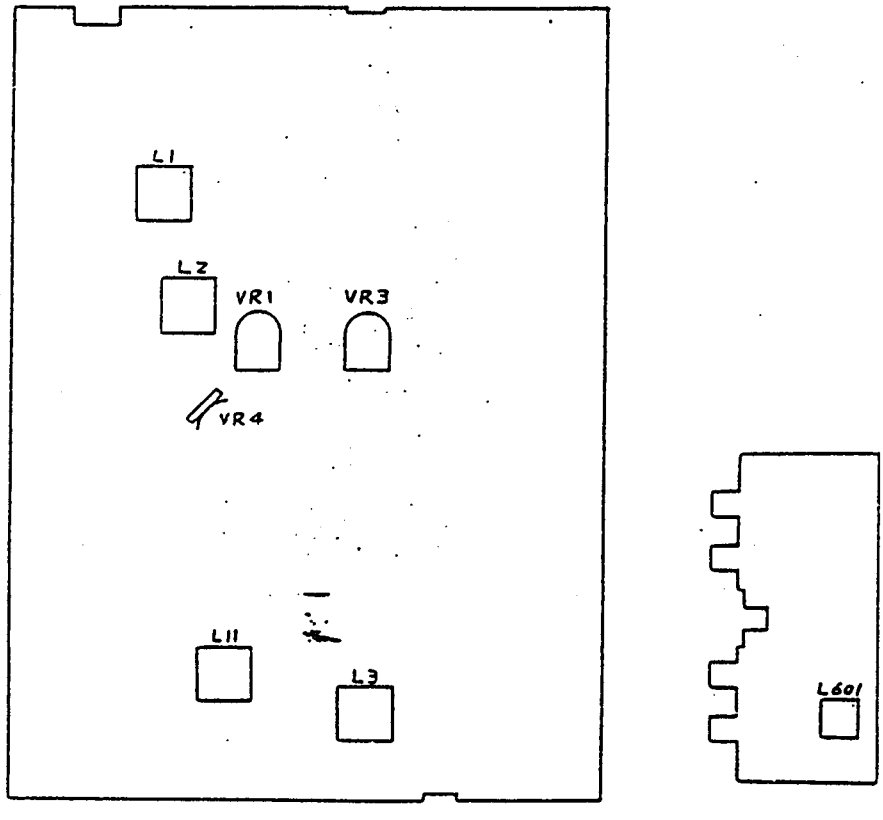
S.S.G. : 1kHz 30% Mod.(AM)
1kHz ± 1.5 kHz Dev. (FM)
Output impedance : 8Ω
Frequency : 27.185 MHz
Attenuator : 0dB = 0.5μV

Squelch : Min (Counterclockwise)

3. Alignment Procedure

Step	Preset to	Adjustment	Remarks
1	AM CH19 volume : Max.	L1, 2, 3 and L11	Connect the S.S.G. to antenna jack and AF VTVM to External speaker (J3). Adjust coils for maximum reading on the AF VTVM
2	Ditto	VR4	Set the S.S.G. attenuator to -3dB and adjust the output power to 5mW. (If the adjusting range is under the desired power, set VR2 to the minimum. If the one is over the desired power, set it to the maximum.)
3	AM CH19 No MOD	VR3	Set the S.S.G. to 1000mV output level. Adjust VR3 so that the 4th LED just turns on.
4	AM CH19 Vol. : Max Squelch : Max	VR1	Adjust VR1 so that squelch just breaks.
5	FM CH19	L601	Set the S.S.G. to 100μV output level. Adjust L601 for 4.5 ± 0.2V reading on the DC voltmeter.

4. Alignment Points



IC VOLTAGE CHART

IC NO.	IC NAME	IC PIN NO	RX (V)		TX (V)
1	LA1185	1	0.8		0.8
		2	1.5		1.5
		3	8		8
		4	1.5		1.5
		5	0		0
		6	7.5		7.5
		7	7.2		7.2
		8	8		8
		9	8		8
2	TDA1220B	1	7.8		7.8
		2	1.4		1.4
		3	8		8
		4	1.4		1.4
		5	1.4		1.4
		6	7.4		7.4
		7	8		8
		8	0.8		0.8
		9	1.8		1.8
		10	7.9		7.9
		11	0		0
		12	0		0
		13	0		0
		14	7.4		7.4
		15	7.4		7.4
		16	0		0
3	MS223L	1	0.2	50 MAX 0.2	0.2
		2	1.2	1.2	1.2
		3	1.2	1.2	1.2
		4	0	0	0
		5	2	1.2	2
		6	1.6	1.6	1.6
		7	6.5	0	7
		8	8	8	8

IC NO.	IC NAME	IC PIN NO.	RX (V)	SQ MAX 7	TX (V)
4	TDA 1905	1	7		7
		2	13.6	13.6	13.6
		3	13.6	13.6	13.6
		4	3	0	2.2
		5	0	0	0
		6	2.5	2.5	2.5
		7	2.5	2.5	2.5
		8	2.4	2.4	2.4
		9	0	0	0
		10	0	0	0
		11	0	0	0
		12	0	0	0
		13	0	0	0
		14	0	0	0
		15	0	0	0
		16	0	0	0
5	SM5124 A (LARGE)	1	0		2.6
		2	3		3
		3	6		6
		4	6		6
		5	3		3
		6	3		3
		7	3		3.6
		8	0.2		5.8
		9	2.9		2.9
		10	0.6		0.6
		11	0.6		0.6
		12	0.6		0.6
		13	6		6
		14	6.9		6.4
		15	0		0
		16	6.4		6.4
		17	6.9		6.4
		18	0		0
6	L7808 CV	1	13.6		13.6
		2	0		0
		3	8		8
7	LB 1423	1	12		12
		2	12		12
		3	12		12
		4	12		12
		5	0		0
		6	0.2		0.2
		7	0.2		0.2
		8	0.2		0.2
		9	8		8

DESIGN BY	DRAWN BY	UNIDEN NO.	MODEL NO.
87.7.9		UT-322	HARRY
T.Nakamura		TITLE SCHMATIC DIAGRAM (VOLTAGE CHART) 1/2	
CHECK BY	APPRO. BY		
87.7.9	87.7.9	DRAWING NO. E13-2677 2/2	REV MARK
M.MATSUI	NAGA		

UT-322B

HT88-00

IC VOLTAGE CHART

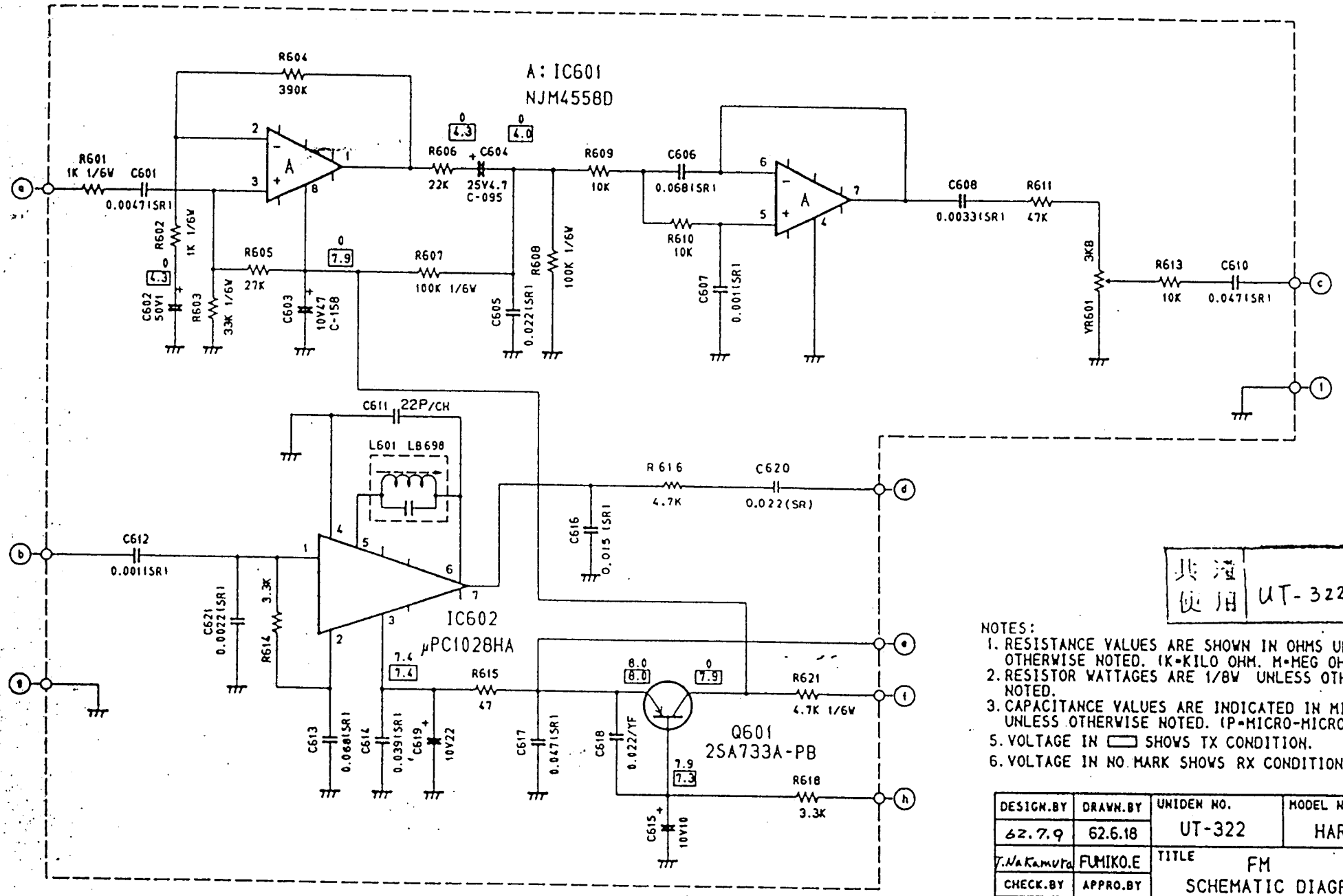
IC NO.	IC NAME	IC PIN NO.	RX (V)	TX (V)
601	NJM4558D	1	0	4.3
		2	0	4.3
		3	0	4.3
		4	0	0
		5	0	4.0
		6	0	4.0
		7	0	4.0
		8	0	7.9
602	μPC1028HA	1	1.3	1.3
		2	1.3	1.3
		3	7.4	7.4
		4	0	0
		5	3.4	3.4
		6	3.4	3.4
		7	4.6	4.6

UT-322B

DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
82.7.9		UT-322	HARRY
T.Nakamura		TITLE SCHMATIC DIAGRAM (VOLTAGE CHART) 2/2	
CHECK.BY	APPRO.BY		
87.7.9	87.7.9	DRAWING NO. E14-2678 2/2	REV. MARK
H.HATSU	NAGA		

UNIDEN CORP

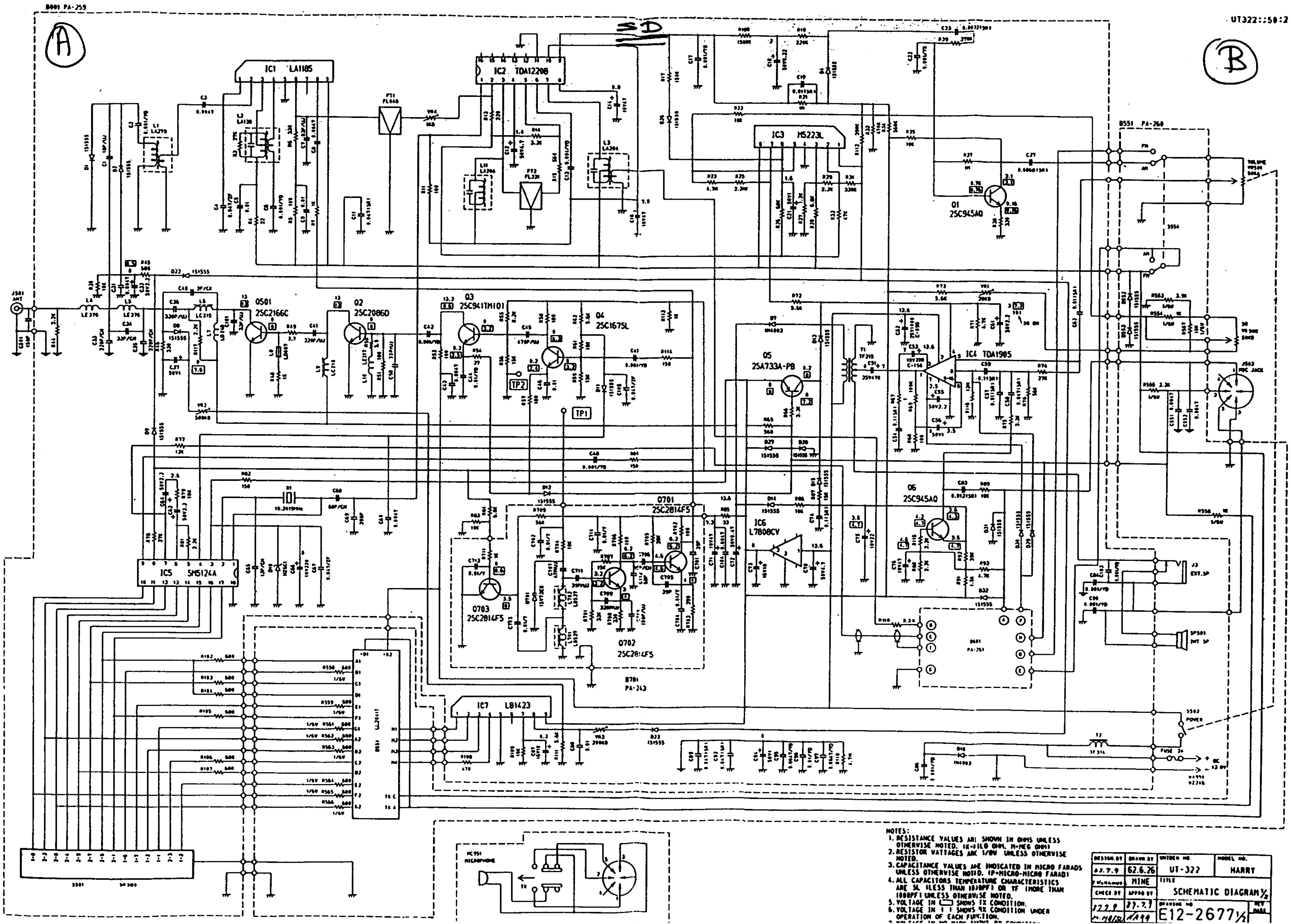
B601 PA-261



北海	UT-322B

NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM. M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)
5. VOLTAGE IN ▭ SHOWS TX CONDITION.
6. VOLTAGE IN NO MARK SHOWS RX CONDITION.

DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
62.7.9	62.6.18	UT-322	HARRY
T.NaKamura	FUMIKO.E	TITLE FM SCHEMATIC DIAGRAM 2/2	
CHECK.BY	APPRO.BY		
62.7.9	62.7.9	DRAWING NO. E14-2678 1/2	REV. MARK
M.HAISU	NAGO		



NOTES:
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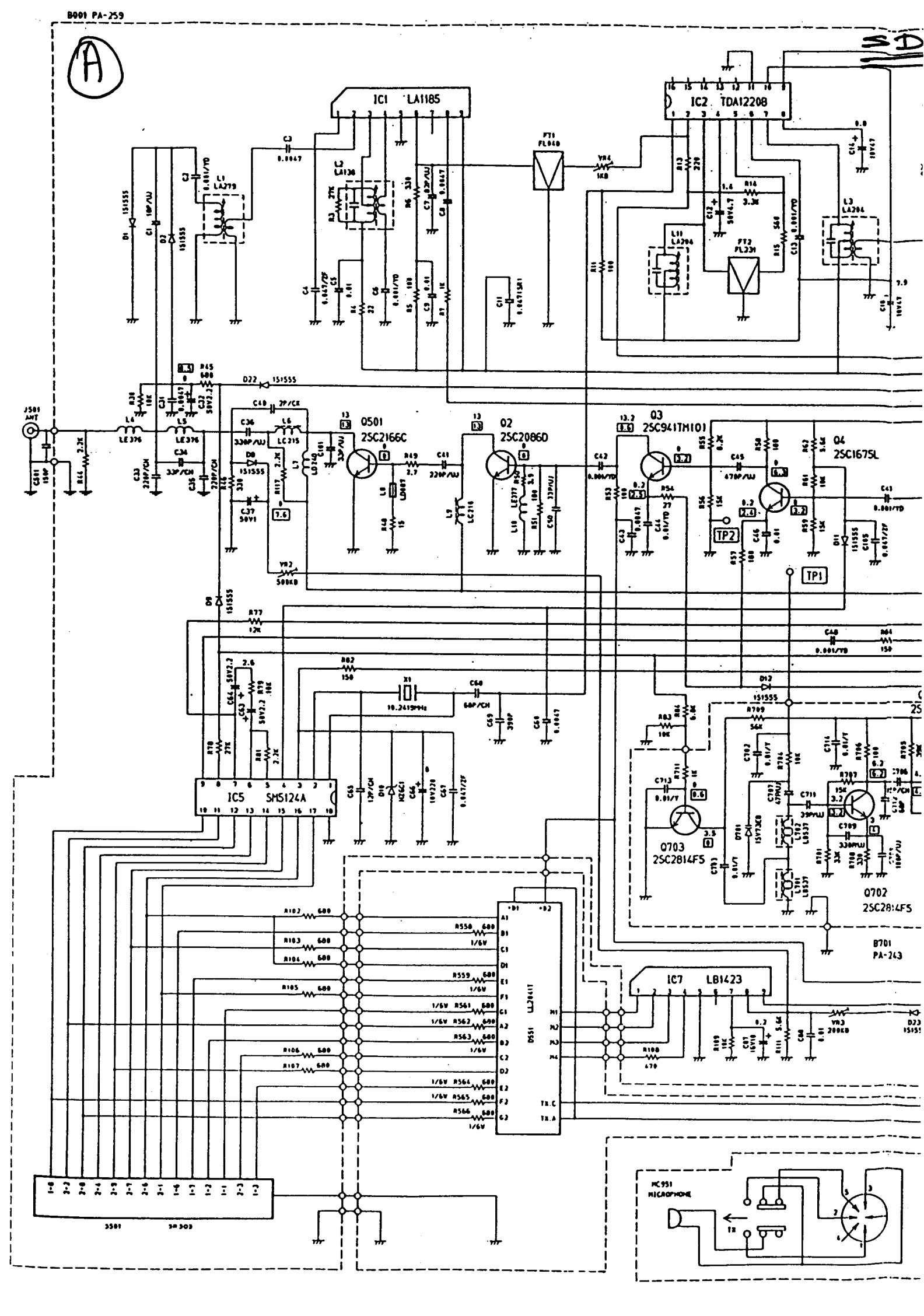
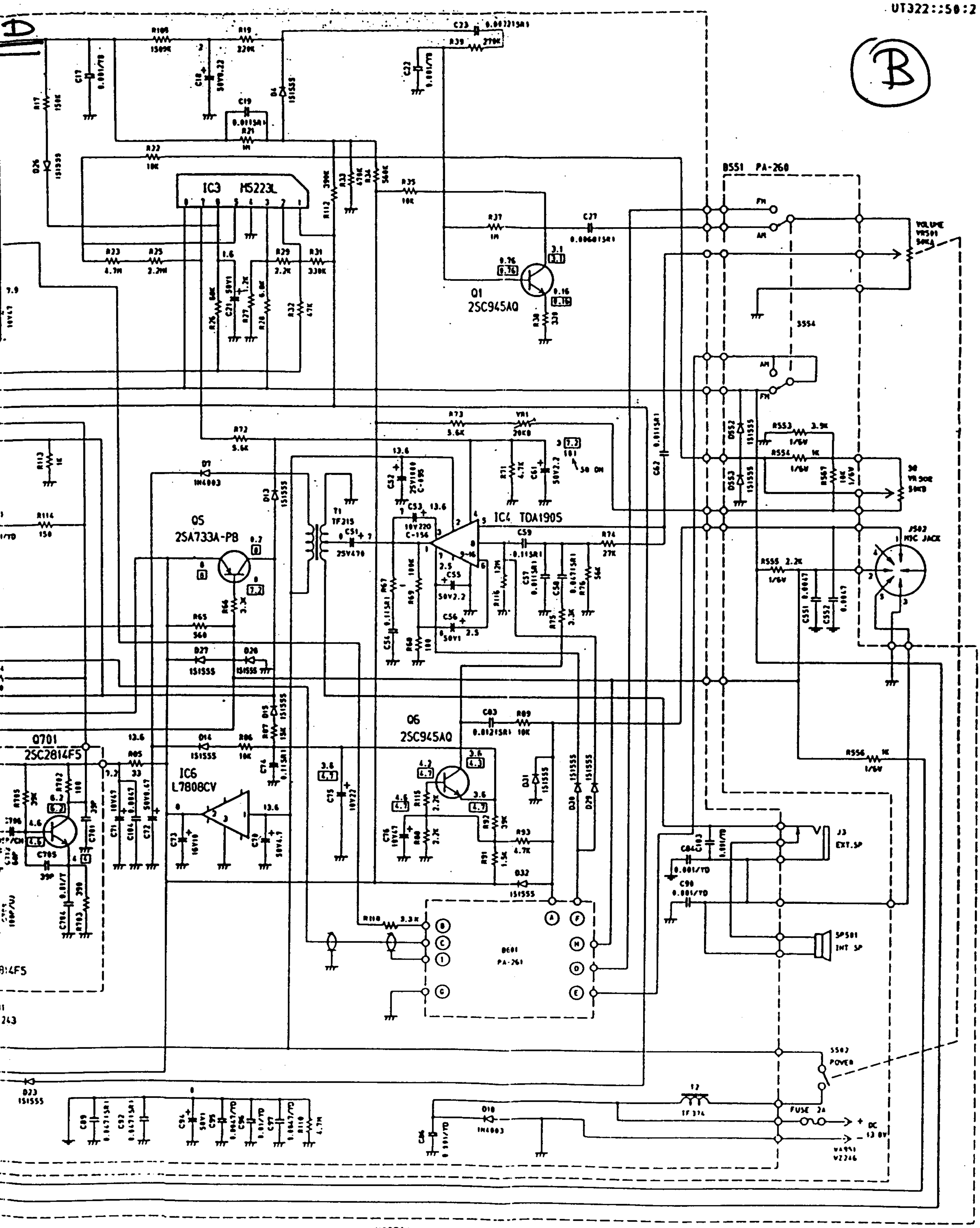
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL (LESS THAN 1000PF) OR YF (MORE THAN 1000PF) UNLESS OTHERWISE NOTED.
5. VOLTAGE IN ▭ SHOWS TX CONDITION.
6. VOLTAGE IN ( ) SHOWS RX CONDITION UNDER OPERATION OF EACH FUNCTION.

DESIGN BY	DRAWN BY	UNIDEN NO.	MODEL NO.
62.7.9	62.6.26	UT-322	HARRY
Matsumoto	MINE	TITLE	
CHECK BY	APPRO BY	SCHEMATIC DIAGRAM 1/2	
122.9	27.7.7	DRAWING NO. E12-2677 1/2	REV DATE


B001 PA-259
IC1 LA1185
IC2 TDA1220B
IC5 SM5124A
IC7 LB1423
Q501 2SC2166C
Q2 2SC2086D
Q3 2SC941TM101
Q4 2SC1675L
Q703 2SC2814F5
Q702 2SC2814F5
B701 PA-243
TP1
TP2
MC951 MICROPHONE

UT322::50:2



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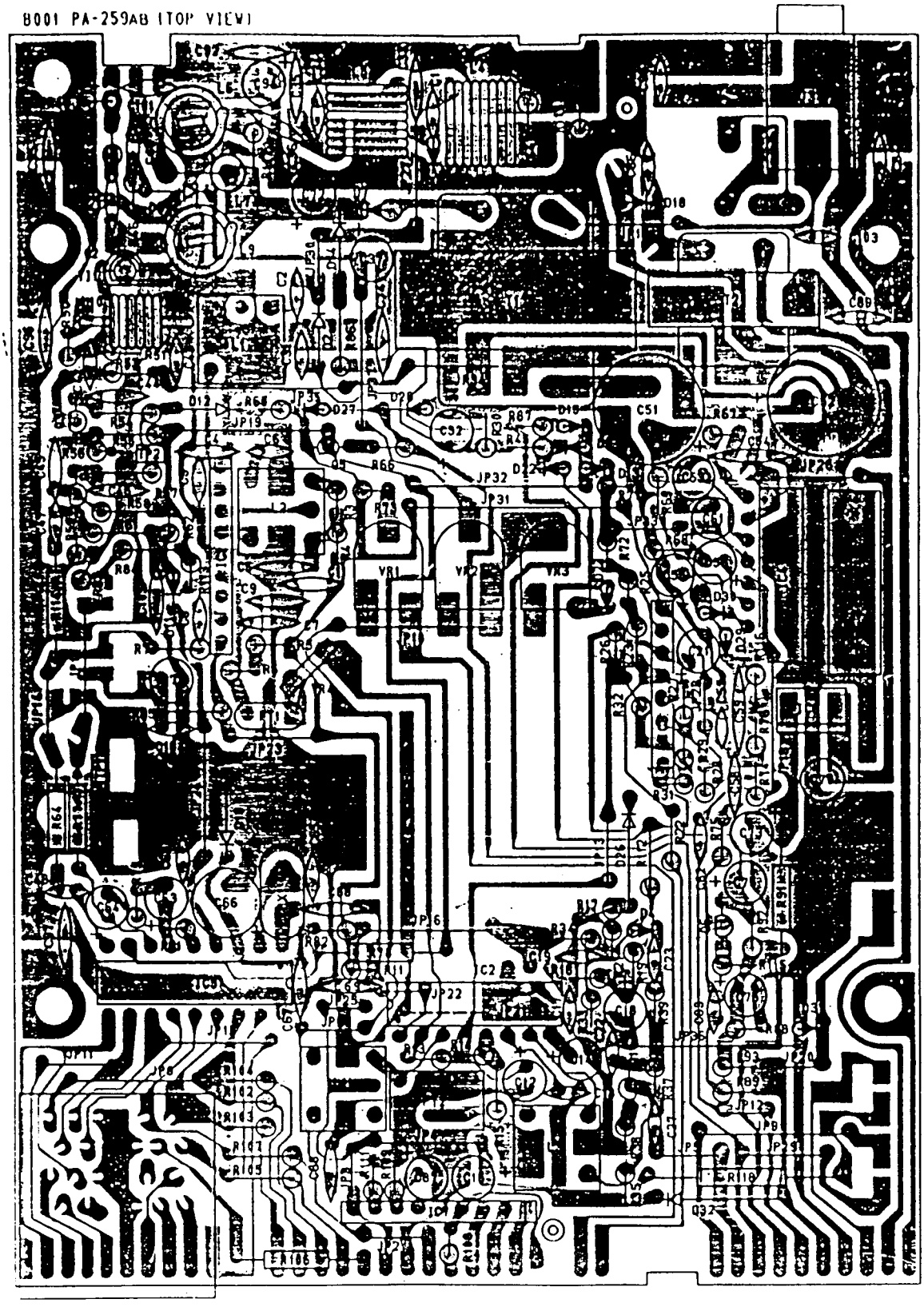
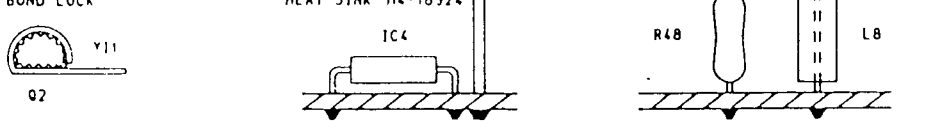
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL (LESS THAN 1000PF) OR YF (MORE THAN 1000PF) UNLESS OTHERWISE NOTED.
5. VOLTAGE IN ▭ SHOWS TX CONDITION.
6. VOLTAGE IN [ ] SHOWS RX CONDITION UNDER OPERATION OF EACH FUNCTION.
7. VOLTAGE IN NO MARK SHOWS RX CONDITION.

DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
62.7.9	62.6.26	UT-322	HARRY
T.Nakamura	MINE	TITLE SCHEMATIC DIAGRAM 1/2	
CHECK.BY	APPRO.BY		
1227.9	87.7.9	DRAWING NO E12-2677 1/2	REV MARK
M.Hagiri	[illegible]		

UNIDEN CORP.

8001 PA-259AB (TOP VIEW)





Q1	2SC945AQ
Q2	2SC2086D
Q3	2SC941TM(O)
Q4	2SC1675L
Q5	2SA733A-PB
Q6	2SC945AQ

D1	1S1555
D2	1S1555
D4	1S1555
D7	1N4003
D8	1S1555
D9	1S1555
D10	MZ6C1
D11	1S1555
D12	1S1555
D13	1S1555
D14	1S1555
D15	1S1555
D16	1N4003
D22	1S1555
D23	1S1555
D26	1S1555
D27	1S1555
D28	1S1555
D29	1S1555
D30	1S1555
D31	1S1555
D32	1S1555

L1	LA279
L2	LA138
L3	LA204
L4	LE376
L5	LE376
L6	LC215
L7	LD240
L8	LD087
L9	LC216
L10	LE377
L11	LA204

JP1	12.5
JP2	7.5
JP3	5
JP4	12.5
JP5	7.5
JP6	7.5
JP36	20
JP8	15
JP9	17.5
JP10	17.5
JP11	10
JP12	5
JP13	7.5
JP14	7.5
JP15	12.5
JP16	15
JP17	12.5
JP18	15
JP19	17.5
JP20	5
JP21	10
JP22	5
JP23	10
JP24	15
JP25	5
JP26	10
JP27	10
JP28	5
JP29	10
JP30	5
JP31	25
JP32	20
JP33	7.5
JP34	12.5

JP35	20
JP37	15

T1	TF215
T2	TF374

VR1	20KB RT182
VR2	500KB RT182
VR3	200KB RT182
VR4	1KB RT520

X1	0X250
	10.2419

FT1	FL048
FT2	FL231

J3	JK089

Y11	YD058

IC1	LA1185
IC2	TDA1220B
IC3	M5223L
IC4	TDA1905
IC5	SM5124A
IC6	L7808CV
IC7	LB1423

C1	.18P/UJ
C2	0.001/YD
C3	0.0047
C4	0.047/ZF
C5	0.01
C6	0.001/YD
C7	82P/UJ
C8	0.0047
C9	0.01
C11	0.047ISR1
C12	50V4.7
C13	0.001/YD
C14	10V47
C16	10V47
C17	0.001/YB
C18	50V0.22
C19	0.011SR1
C21	50V1
C22	0.001/YB
C23	0.00221SR1
C27	0.00681SR1
C31	0.0047
C32	50V2.2
C33	220P/CH
C34	33P/CH
C35	220P/CH
C36	330P/UJ
C37	50V1
C40	2P/CK
C41	220P/UJ
C42	0.001/YD
C43	0.0047
C44	0.01/YD
C45	470P/UJ
C46	0.01
C47	0.001/YD
C48	0.001/YB
C51	25V470
C52	25V1000 C-095
C53	10V220 C-156
C54	0.11SR1
C55	50V2.2
C56	50V1
C57	0.011SR1
C58	0.047ISR1
C59	0.11SR1

C60	0.0047
C61	50V2.2
C62	0.011SR1
C63	50V2.2
C64	50V2.2
C65	12P/CH
C66	10V220
C67	0.047/ZF
C68	68P/CH
C69	390P/5L
C70	50V4.7
C71	10V47
C72	50V0.47
C73	16V10
C74	0.11SR1
C75	10V22
C76	10V47
C83	0.012ISR1
C84	0.001/YD
C86	0.001/YD
C87	16V10
C88	0.01
C89	0.047ISR1
C90	0.001/YD
C92	0.047ISR1
C94	50V1
C95	0.0047/YD
C96	0.01/YD
C97	0.0047/YD
C101	33P/UJ
C103	0.001/YD
C104	0.0047
C105	0.047/ZF

R3	27K
R4	22
R5	100
R6	330
R7	1K
R11	100
R13	220
R14	3.3K
R15	560
R17	150K
R18	150K
R19	220K
R21	1M
R22	10K
R23	4.7M
R25	2.2M
R26	68K
R27	1.2K
R28	6.8K
R29	2.2K
R30	10K
R31	330K
R32	47K
R33	470K
R34	560K
R35	10K
R37	1M
R38	330
R39	270K
R44	2.2K
R45	680
R46	330
R48	15
R49	2.7
R51	180
R53	100
R54	27
R55	8.2K
R56	15K
R57	180
R58	180
R59	15K
R61	10K
R62	5.6K

R64	150
R65	560
R66	3.3K
R67	1
R68	100
R69	100K
R71	4.7K
R72	5.6K
R73	5.6K
R74	27K
R75	3.3K
R76	56K
R77	12K
R78	27K
R79	10K
R81	2.2K
R82	150
R83	10K
R84	6.8K
R85	33
R86	10K
R87	15K
R88	2.2K
R89	10K
R91	1.5K
R92	39K
R93	4.7K
R102	680
R103	680
R104	680
R105	680
R106	680
R107	680
R108	470
R109	10K
R110	4.7M
R111	5.6K
R112	390K
R113	1K
R114	150
R115	2.2K
R116	12M
R117	2.2K
R118	3.3K
R50	3.9

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4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE YF UNLESS OTHERWISE NOTED.

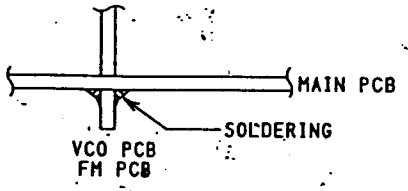
DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
82.7.9	82.6.30	UT-322	HARRY
T.NAKAMURA	FUMIKO.E	TITLE	MAIN PCB PARTS ASSEMBLY TOP VIEW
CHECK.BY	APPRO.BY		
82.7.9	82.7.9	E22-6996	REV. MARK
M.HAYASHI	TAKA		

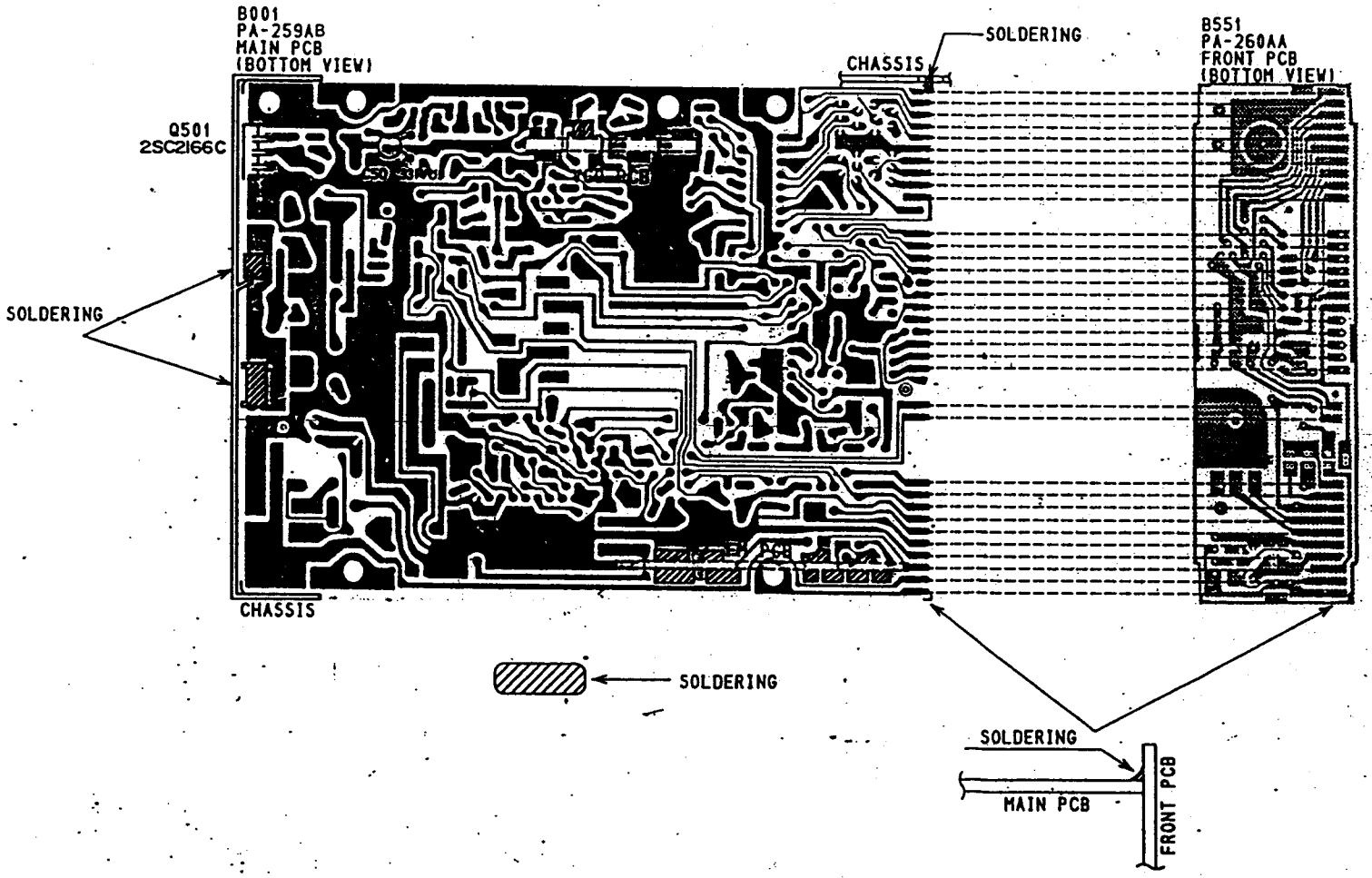
UNIDEN CORP.

(A)

PCB

(B)





UT-322B

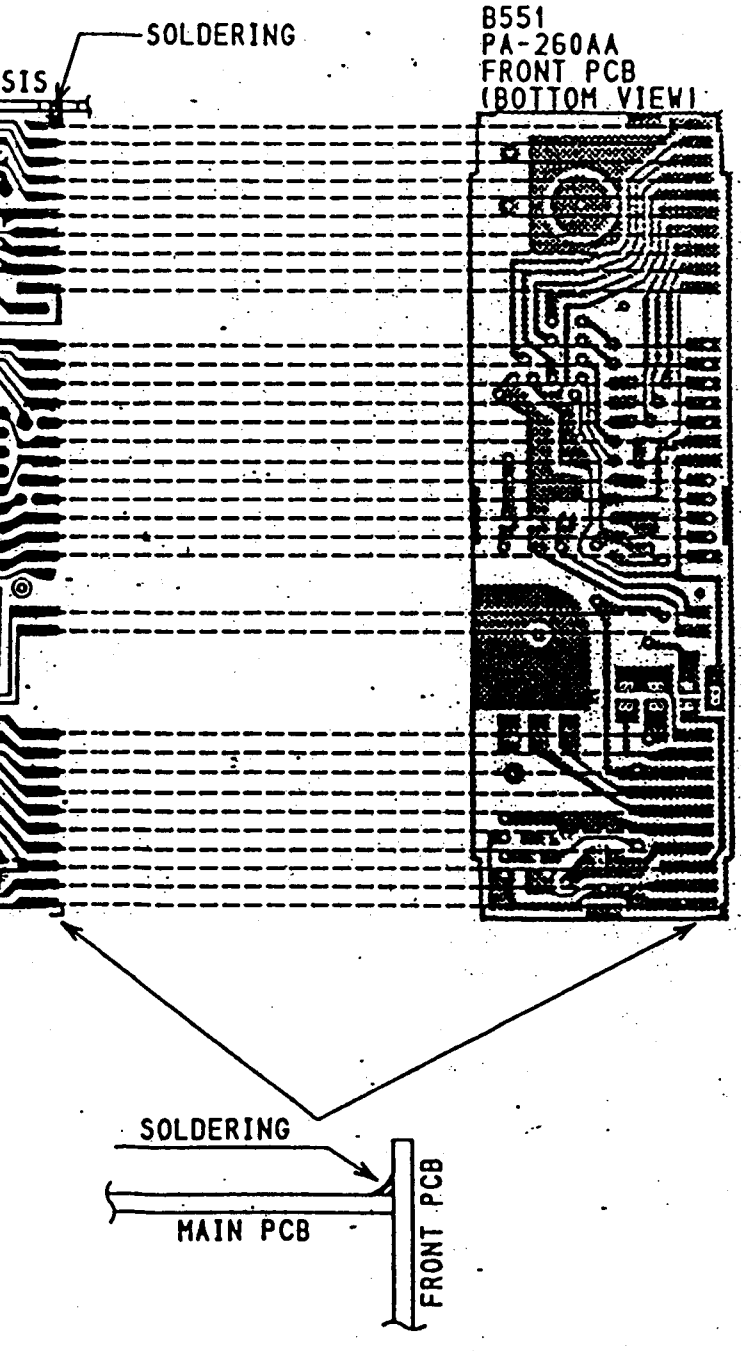
DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
82.7.9	82.6.26	UT-322	HARRY
Takamura	MINE	TITLE	
CHECK.BY	APPRO.BY	PARTS ASSEMBLY BOTTOM VIEW	
82.7.9	82.7.9	DRAWING NO.	REV. MARK
M.HATTA	NAGA	E23-6997	

HT86-013

UNIDEN CORP.

PCB

(B)



UT-322B

DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
62.7.9	62.6.26	UT-322	HARRY
J.Nakamura	MINE	TITLE	
CHECK.BY	APPRO.BY	PARTS ASSEMBLY BOTTOM VIEW	
87.7.9	87.7.9	DRAWING NO.	REV. MARK
H.MATSU	NAGA	E23-6997	

HT86-013

UNIDEN CORP.

C551	0.0047/YF
C552	0.0047/YF

R553	3.9K
R554	1K
R555	2.2K
R556	1K
R558	680
R559	680
R561	680
R562	680
R563	680
R564	680

R565	680
R566	680
R567	10K

JP551	12.5
JP552	10
JP553	17.5

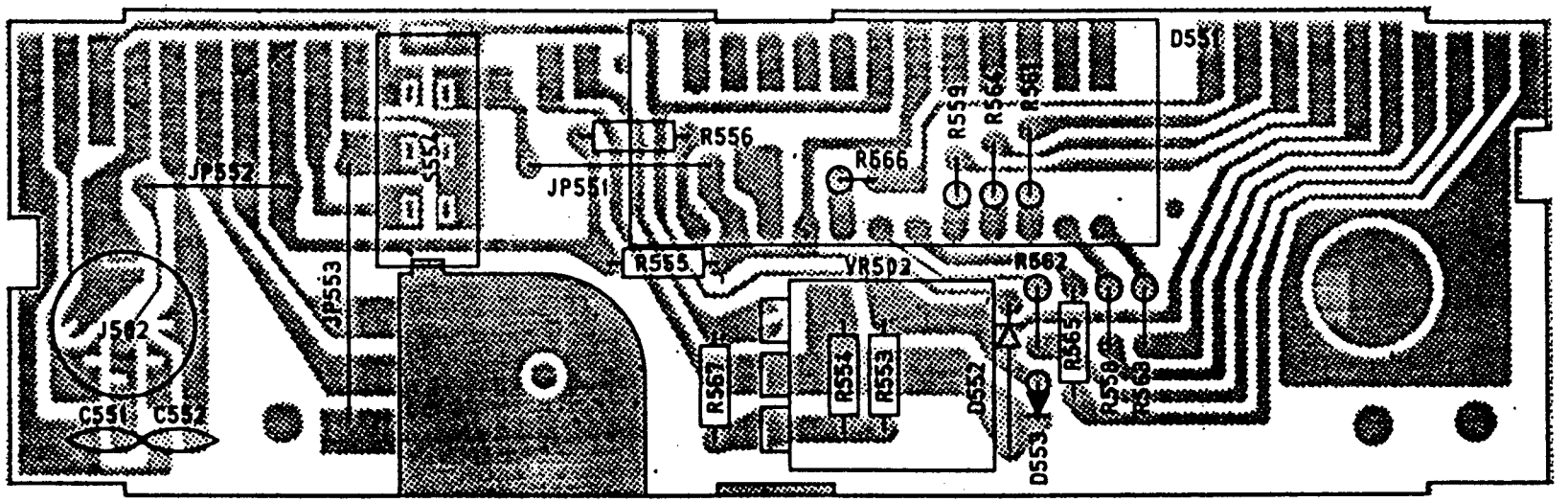
D551	LL-2041T
D552	1S1555
D553	1S1555

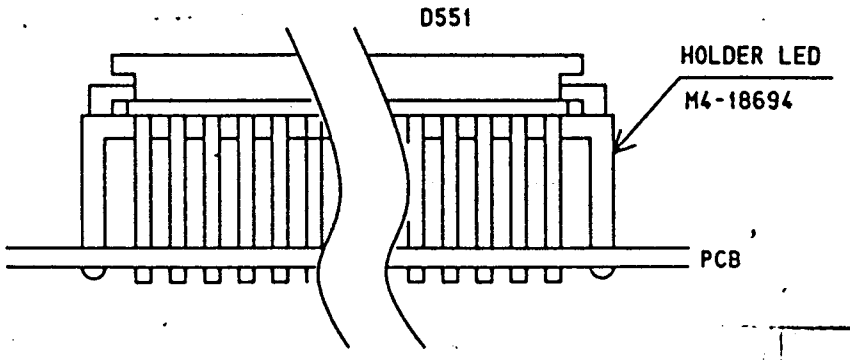
S554	SW557

VR502	RV650 50KB

J502	JK374

B551 PA-260AA





NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM. M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/6W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED.(P=MICRO-MICRO FARAD)

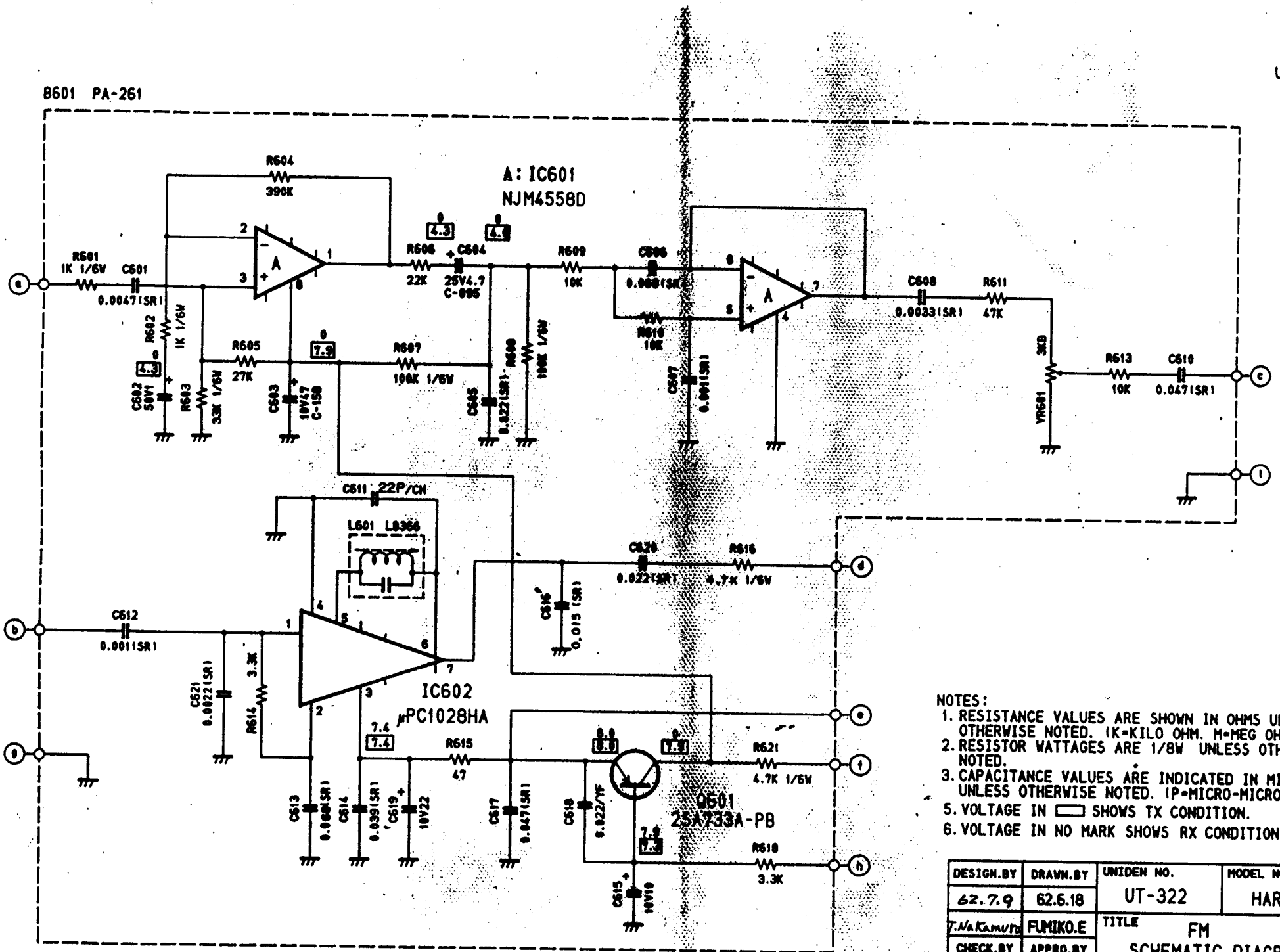
DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
62.7.9	62.6.26	UT-322	HARRY
T.Nakamura	FUMIKO.E	TITLE: FRONT PCB PARTS ASSEMBLY TOP VIEW	
CHECK.BY	APPRO.BY		
87.7.9	87.7.9	E24-6998	REV. MARK
M.MATSU	NAGA		

UNIDEN CORP.

UT322/PA260AA::52:1

UT-322B

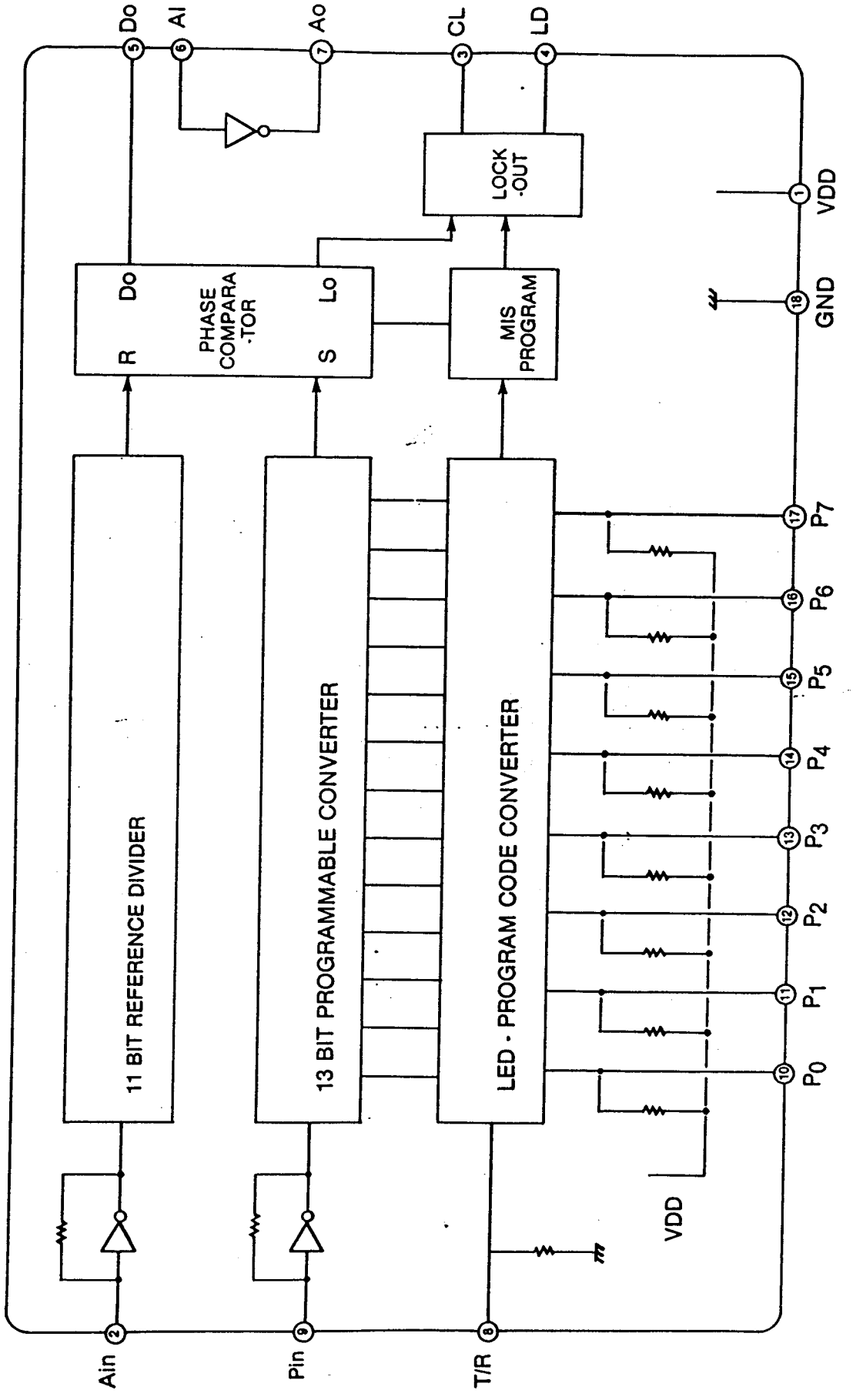
B601 PA-261



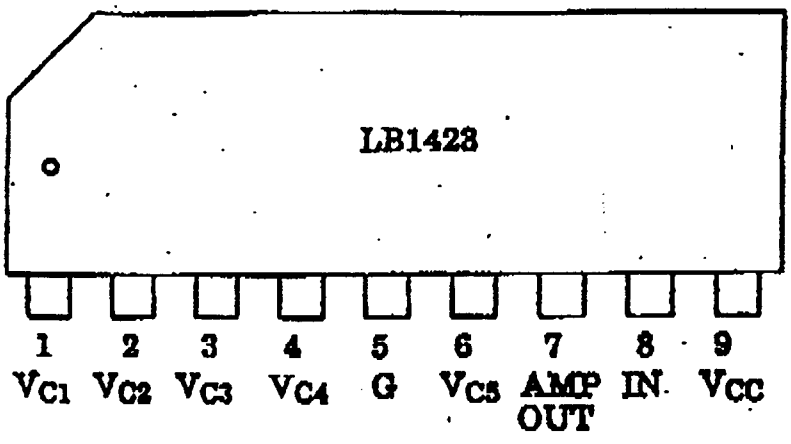
NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM. M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)
5. VOLTAGE IN ▭ SHOWS TX CONDITION.
6. VOLTAGE IN NO MARK SHOWS RX CONDITION.

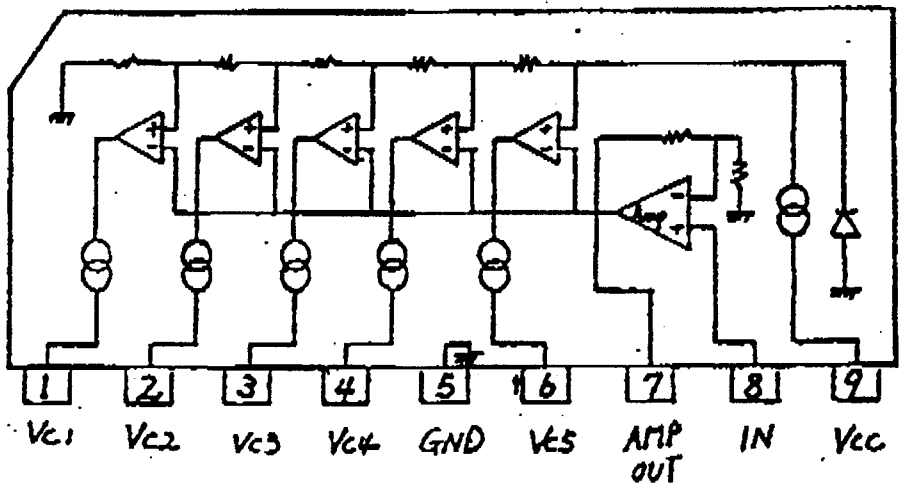
DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
82.7.9	82.6.18	UT-322	HARRY
T.NAKAMURA	FUMIKO.E	TITLE FM SCHEMATIC DIAGRAM 2/2	
CHECK.BY	APPRO.BY		
82.7.9	82.7.9	DRAWING NO. E14-2678 1/2	REV. MARK
M.MATSU	YA99		

PLL BLOCK DIAGRAM (IC 1)



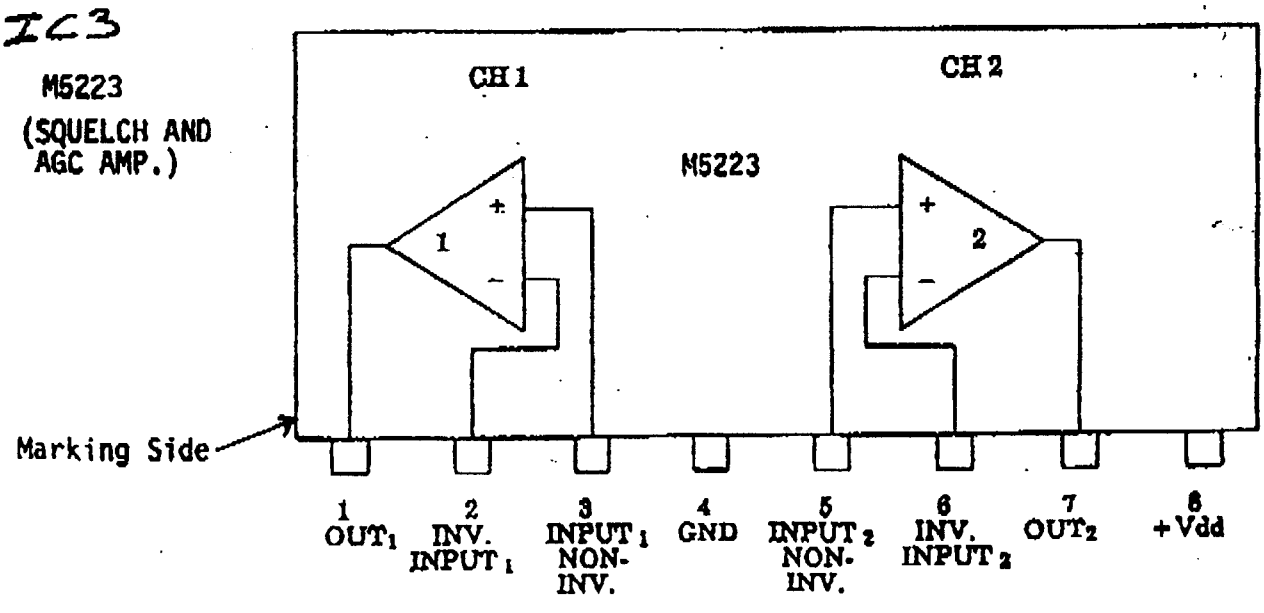
LB1423
(LED METER DRIVE)



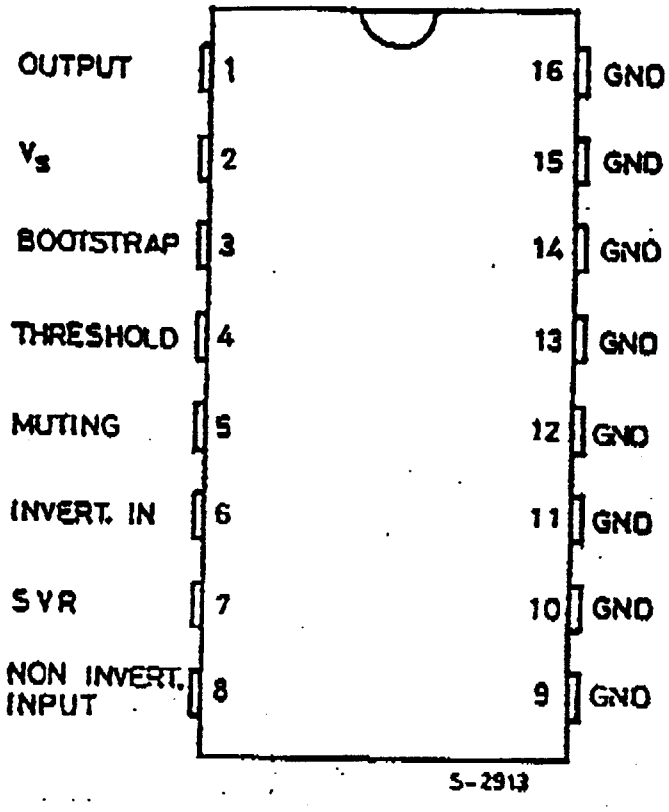


IC3

M5223
(SQUELCH AND AGC AMP.)

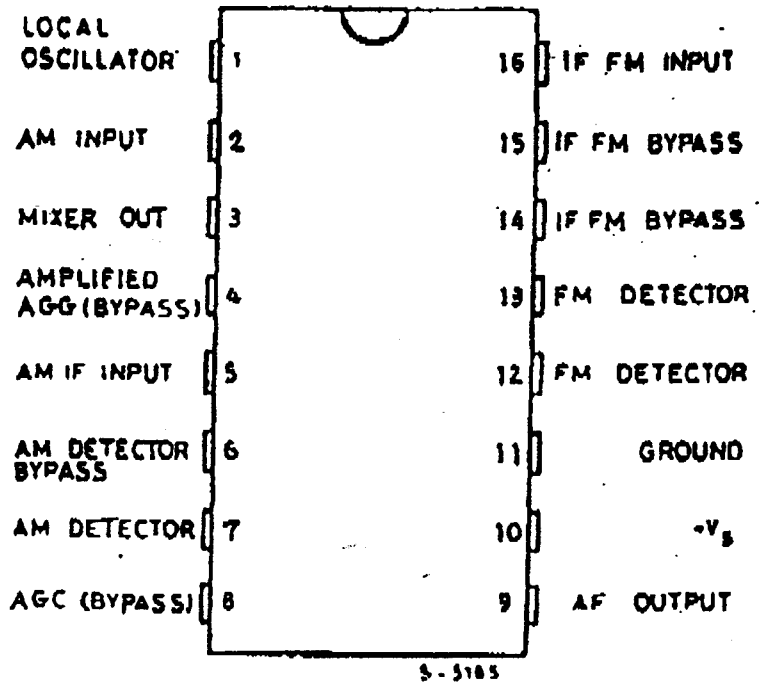


TDA1905
(AUDIO AMPLIFIER)



IC2

TDA1220B
(* 2nd Mix.
* 2nd IF Amp.
* DET
* AGC)



NOMENCLATURE DES COMPOSANTS

Q1	2SC945AQ
Q2	2SC2086D
Q3	2SC941TM(O)
Q4	2SC1675L
Q5	2SA733A-PB
Q6	2SC945AQ

J3	JK089

D1	1S1555
D2	1S1555
D4	1S1555
D7	1N4003
D8	1S1555
D9	1S1555
D10	HZ6C1
D11	1S1555
D12	1S1555
D13	1S1555
D14	1S1555
D15	1S1555
D18	1N4003
D22	1S1555
D23	1S1555
D26	1S1555
D27	1S1555
D28	1S1555
D29	1S1555
D30	1S1555
D31	1S1555
D32	1S1555

Y11	YD058

L1	LA279
L2	LA138
L3	LA204
L4	LE376
L5	LE376
L6	LC215
L7	LD240
L8	LD087
L9	LC216
L10	LE377
L11	LA204

IC1	LA1185
IC2	TDA1220B
IC3	M5223L
IC4	TDA1905
IC5	SM5124A
IC6	L7808CV
IC7	LB1423

JP1	12.5
JP2	7.5
JP3	5
JP4	12.5
JP5	7.5
JP6	7.5
JP36	20
JP8	15
JP9	17.5
JP10	17.5
JP11	10
JP12	5
JP13	7.5
JP14	7.5
JP15	12.5
JP16	15
JP17	12.5
JP18	15
JP19	17.5
JP20	5
JP21	10
JP22	5
JP23	10
JP24	15
JP25	5
JP26	10
JP27	10
JP28	5
JP29	10
JP30	5
JP31	25
JP32	20
JP33	7.5
JP34	12.5

JP35	20
JP37	15

T1	TF215
T2	TF374

VR1	20KB RT182
VR2	500KB RT182
VR3	200KB RT182
VR4	1KB RT520

X1	QX250
	10.2419

FT1	FL048
FT2	FL231

C1	.18P/UJ
C2	0.001/YD
C3	0.0047
C4	0.047/ZF
C5	0.01
C6	0.001/YD
C7	82P/UJ
C8	0.0047
C9	0.01
C11	0.047(SR)
C12	50V4.7
C13	0.001/YD
C14	10V47
C16	10V47
C17	0.001/YB
C18	50V0.22
C19	0.01(SR)
C21	50V1
C22	0.001/YB
C23	0.0022(SR)
C27	0.0068(SR)
C31	0.0047
C32	50V2.2
C33	220P/CH
C34	33P/CH
C35	220P/CH
C36	330P/UJ
C37	50V1
C40	2P/CK
C41	220P/UJ
C42	0.001/YD
C43	0.0047
C44	0.01/YD
C45	470P/UJ
C46	0.01
C47	0.001/YD
C48	0.001/YB
C51	25V470
C52	25V1000 C-095
C53	10V220 C-156
C54	0.1(SR)
C55	50V2.2
C56	50V1
C57	0.01(SR)
C58	0.047(SR)
C59	0.1(SR)

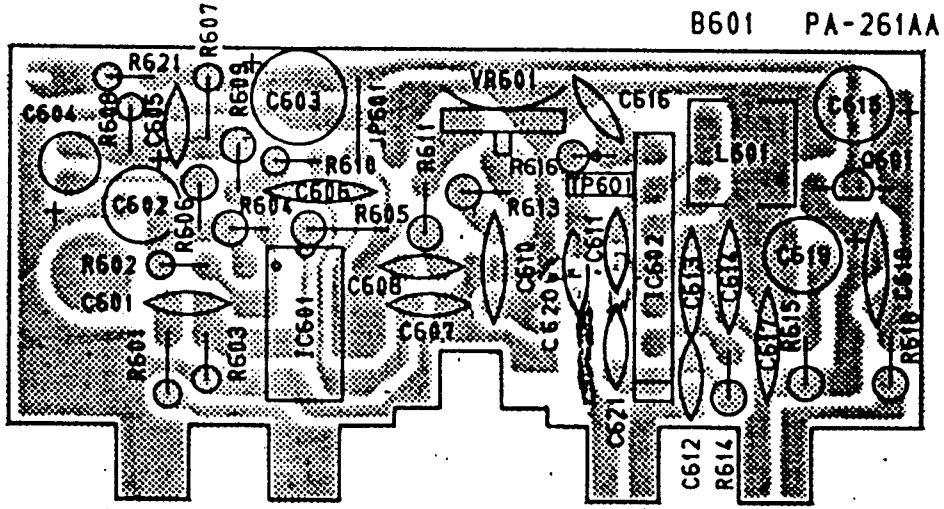
C60	0.0047
C61	50V2.2
C62	0.01(SR)
C63	50V2.2
C64	50V2.2
C65	12P/CH
C66	10V220
C67	0.047/ZF
C68	68P/CH
C69	390P/SL
C70	50V4.7
C71	10V47
C72	50V0.47
C73	16V10
C74	0.1(SR)
C75	10V22
C76	10V47
C83	0.012(SR)
C84	0.001/YD
C86	0.001/YD
C87	16V10
C88	0.01
C89	0.047(SR)
C90	0.001/YD
C92	0.047(SR)
C94	50V1
C95	0.0047/YD
C96	0.01/YD
C97	0.0047/YD
C101	33P/UJ
C103	0.001/YD
C104	0.0047
C105	0.047/ZF

R3	27K
R4	22
R5	100
R6	330
R7	1K
R11	100
R13	220
R14	3.3K
R15	560
R17	150K
R18	150K
R19	220K
R21	1M
R22	10K
R23	4.7M
R25	2.2M
R26	68K
R27	1.2K
R28	6.8K
R29	2.2K
R30	10K
R31	330K
R32	47K
R33	470K
R34	560K
R35	10K
R37	1M
R38	330
R39	270K
R44	2.2K
R45	680
R46	330
R48	15
R49	2.7
R51	180
R53	100
R54	27
R55	8.2K
R56	15K
R57	180
R58	180
R59	15K
R61	10K
R62	5.6K

R64	150
R65	560
R66	3.3K
R67	1
R68	100
R69	100K
R71	4.7K
R72	5.6K
R73	5.6K
R74	27K
R75	3.3K
R76	56K
R77	12K
R78	27K
R79	10K
R81	2.2K
R82	150
R83	10K
R84	6.8K
R85	33
R86	10K
R87	15K
R88	2.2K
R89	10K
R91	1.5K
R92	39K
R93	4.7K
R102	680
R103	680
R104	680
R105	680
R106	680
R107	680
R108	470
R109	10K
R110	4.7M
R111	5.6K
R112	390K
R113	1K
R114	150
R115	2.2K
R116	12M
R117	2.2K
R118	3.3K
R50	3.9

NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. K=KILO OHM. M=MEG OHM
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FA UNLESS OTHERWISE NOTED. P=MICRO-MICRO FARADS
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS

B601 PA-261AA



C601	0.0047(SR)
C602	50V1
C603	10V47 C-158
C604	25V4.7 C-095
C605	0.022(SR)
C606	0.068(SR)
C607	0.001(SR)
C608	0.0033(SR)
C610	0.047(SR)
C611	22P/CH
C612	0.001(SR)
C613	0.068(SR)
C614	0.039(SR)
C615	10V10
C616	0.015(SR)
C617	0.047(SR)
C618	0.022/YF
C619	10V22
C620	0.022(SR)

C621	0.0022(SR)

IC601	NJM4558D
IC602	μPC1028HA

Q601	2SA733A-PB

R601	1K 1/6W
R602	1K 1/6W
R603	33K 1/6W
R604	390K
R605	27K
R606	22K
R607	100K 1/6W
R608	100K 1/6W
R609	10K
R610	10K
R611	47K
R613	10K
R614	3.3K
R615	47
R616	4.7K
R618	3.3K
R621	4.7K 1/6W

JP601	5

L601	LB698

VR601	3KB RT-535

北通 使用	UT-322B

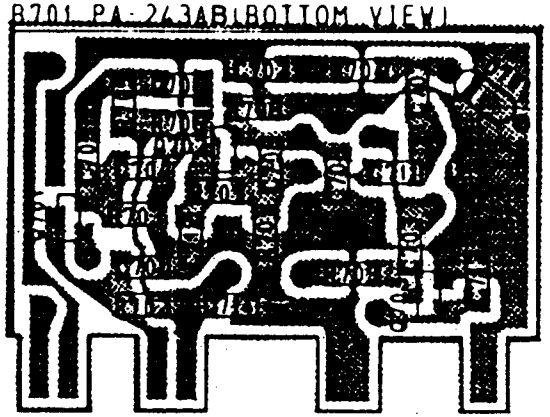
NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM. M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED.(P=MICRO-MICRO FARAD)
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE ZF UNLESS OTHERWISE NOTED.
5. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL (LESS THAN 1000PF) OR ZF (MORE THAN 1000PF) UNLESS OTHERWISE NOTED.

DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
62.7.9	62.6.26	UT-322	HARRY
T.NaKamura	FUMIKO.E	TITLE	FM PCB
CHECK.BY	APPRO.BY	PARTS ASS'Y TOP VIEW	
87.7.9	87.7.9	E24-6999	REV. MARK
M.MATSU	NAGA		

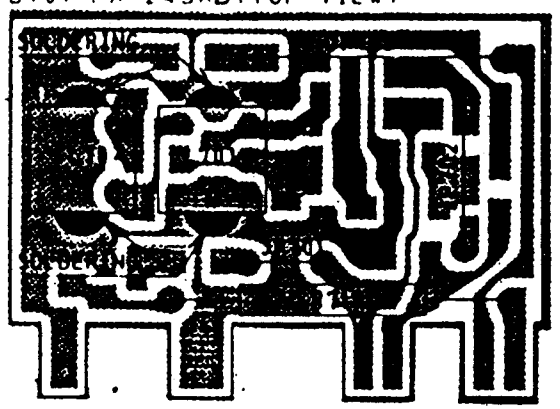
UNIDEN CORP.

1P88 - 008

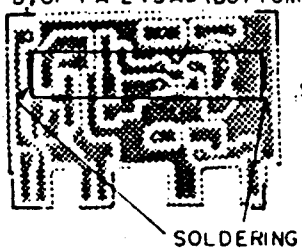
B701 PA-243AB(BOTTOM VIEW)

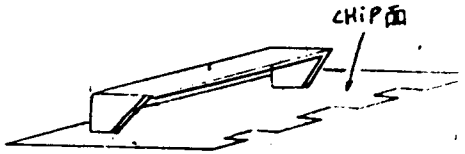


B701 PA-243AB(TOP VIEW)



B701 PA-243AB (BOTTOM VIEW)





C701	39P/SL
C702	0.01/Y
C703	0.01/Y
C704	0.01/Y
C705	39P/SL
C706	15P/CH
C707	47P/UJ
C708	100P/UJ
C709	330P/UJ
C711	39P/UJ
C712	68P/SL
C713	0.01/Y
C714	0.01/Y

R701	33K
R702	100.
R703	390
R704	10K
R705	39K
R706	100
R707	15K
R708	330
R709	56K

Q701	2SC2814F5
Q702	2SC2814F5
Q703	2SC2814F5

D701	1SV73EB

JP701	S
JP702	10
JP703	17.5

R711	1K

L701	LB537
L702	LB537

NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K-KILO OHM. M-MEG OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P-MICRO-MICRO FARAD)

DESIGN.BY	DRAWN.BY	UNIDEN NO.	MODEL NO.
62.7.9		UT-322	HARRY
T.NaKamura		TITLE VCO PCB PARTS ASSEMBLY	
CHECK.BY	APPRO.BY		
87.7.9	87.7.9	E24-7000	REV. MARK
M.MATSU	NAGA		

UNIDEN CORP.

使用	UT-322B

HP88-009

	REF.	D E S I G N A T I O N	QTE/MOD.
	BC003	BOBINE LD-087	1
	BC004	BOBINE LE-096 / LE-376	2
	BC007	BOBINE LE-187 / LE-377	1
*	BC011	SELF ALIMENTATION TF-083/TF374	1
*	BC017	BOBINE LC-072 / LC-218	1
	BC129	BOBINE LC-074 / LC-215	1
	BC130	BOBINE LD-168 / LD-240	1
	BR011	BOBINE LA-351 / LB-537	2
*	BR033	BOBINE LA-279 / LA-442	1
*	BR055	BOBINE LA-204 / LA-431	2
*	BR059	BOBINE LA-138 / LA-427	1
*	BR070	BOBINE LB-366 / LB-398	1
*	BT015	TRANSFORMATEUR TF-215	1
	DC008	DIODE 1N 4001-1N 4002-1N 4003	2
	DC022	DIODE 1S V73-EB/1S 2688 EA	1
****	HM019	MICRO ORIGINE DIN/ELECTRET	1
*	HP016	HAUT-PARLEUR SP-154 / SP-169	1
***	IL051	CIRCUIT INTEGRE SM 5124A	1
*	IO004	CIRCUIT INTEGRE LB 1423	1
*	IP015	CIRCUIT INTEGRE TDA 1905	1
**	IR000	CIRCUIT INTEGRE M 5223L	1
*	IR003	CIRCUIT INTEGRE NJM4558D/BA45	1
*	IR004	CIRCUIT INTEGRE UPC 1028H	1
*	IR047	CIRCUIT INTEGRE 7808	1
*	IR055	CIRCUIT INTEGRE TDA 1220B	1
*	IR056	CIRCUIT INTEGRE LA 1185	1

	REF.	D E S I G N A T I O N	QTE/MOD.
**	IY301	PLATINE VCO HARRY	1
*	JX001	JACK JK-089 HP EXTERNE	1
*	JX003	JACK JK-068(JK261/JK370/JK426)	1
*	JX034	JACK JK-374	1
**	OA017	AFFICHEUR LL-2041 HARRY	1
*	PF001	FILTRE FL-048 SFE 10.7 MHZ	1
**	PF024	FILTRE FL-231	1
	QX052	VIS ETRIER PRESIDENT	2
*	QX079	ETRIER HARRY - PC 33	1
*	QX114	CORDON ALIM. HARRY	1
*	QX121	FACE AVANT HARRY	1
	QX122	BOUTON CNX JIMMY HARRY	1
	QX123	BOUTON VOL ET SQ HARRY	1
	QX136	PLAQUE AFFICHEUR HARRY	1
	QX204	CAPOT INFERIEUR JIMMY	1
**	QX205	CAPOT SUPERIEUR JIMMY	1
*	RV077	POTENTIOM.RV-650 SQUELCH	1
**	RV078	POTENTIOM.RV-651 VOL/M/A 50KA	1
***	SS031	COMMUTATEUR SR-303/CANAUX	1
	SX072	COMMUTATEUR SW-557/AM.FM	1
*	TH001	TRANSISTOR 2SC 2166	1
	TX001	TRANSISTOR 2SA 733	1
	TX002	TRANSISTOR 2SC 945	2
	TX004	TRANSISTOR 2SC 1675	1
*	TX010	TRANSISTOR 2SC 2086	1
	TX015	TRANSISTOR 2SC 941	1

	REF.	D E S I G N A T I O N	QTE/MOD.
	TX300	TRANSISTOR 2SC 2814 (CMS)	3
****	XX001	LOT MANUELS MAINT. PRESIDENT	1
*	XX040	MANUEL DE MAINTENANCE HARRY	1