

SYMBOL	GE PART NO	EQUIVALENT CIRCUIT
IC201	B19/ 5CAAJ00328	Note: Pin 6 is not and cannot be used as a digital phase detector output.
IC202	B19/ 5DDAT00206	
IC208	B19/ 5DAAA00183	
HC401	B19/ 5NZBH00002	

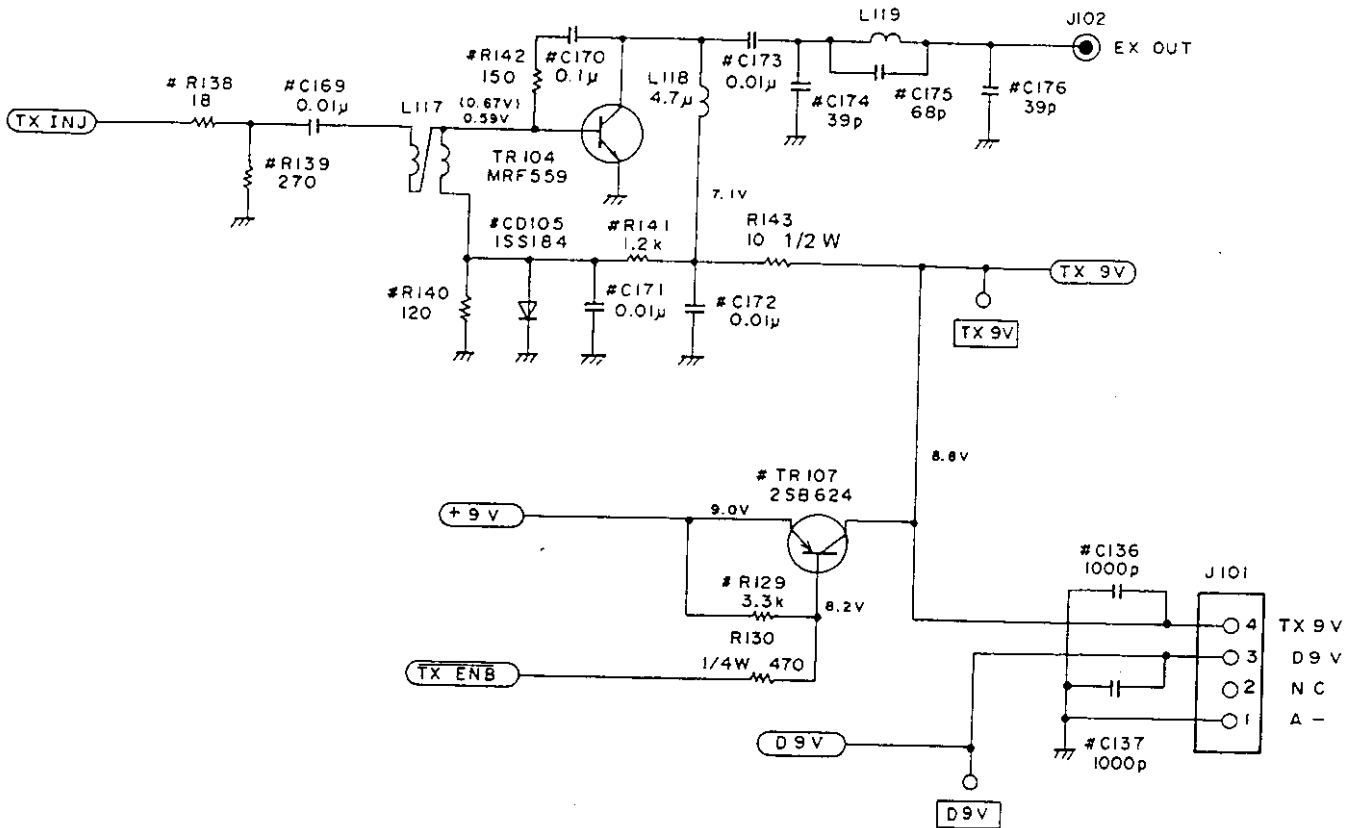
SYMBOL	GE PART NO	EQUIVALENT CIRCUIT
IC501	B19/ 5DAAR00074	
HC601	B19/ 6DHFD00160	
HC602	B19/ 6DHFD00167	<u>DE-EMPHASIS</u>
HC603	B19/ 6DHFD00168	MPF AFH 85F 300A 4

SYMBOL	GE PART NO	EQUIVALENT CIRCUIT
HC604	B19/ 6DHFD00169	
HC605	B19/ 6DHFD00164	
IC602	B19/ 5DAAA00233	
IC701	B19/ 5DAAJ00646	

△ COMPONENT IDENTIFICATION CHART

PART	CAH-705AL	CAH-705AH	CAH-705BL	CAH-705BH
	29~42MHz 60W	29~42MHz 110W	35~50MHz 60W	35~50MHz 110W
C8	—	0.0022 μ	—	0.0022 μ
C10	10P	10P	—	—
C16	0.1 μ	0.1 μ	0.1 μ	120P
C17	47P	220P	39P	22P
C18	—	820P	—	820P
C19	330P	470P	330P	330P
C20	—	180P	120P	—
C22	220P	270P	220P	180P
C23	—	180P	120P	—
C25	220P	270P	220P	180P
C26	330P	390P	270P	330P
C27	390P	470P	390P	820P
C31	68P	68P	56P	56P
C32	39P	56P	30P	39P
C33	18P	18P	15P	15P
C45	75P	75P	56P	56P
C46	130P	130P	100P	100P
C47	180P	180P	130P	130P
C48	130P	130P	100P	100P
C49	56P	56P	47P	47P
CD6	—	ISS184	—	ISS184
CD7	—	ISS184	—	ISS184
L4	BI9/6LAFD01132	BI9/6LAFD01132	BI9/6LAFD01285	BI9/6LAFD01285
R34	5.6 Ω 1/8W	—	5.6 Ω 1/8W	—
R35	6.8 Ω 1/8W	2.2 Ω 1/8W	6.8 Ω 1/8W	2.2 Ω 1/8W
R9	56 Ω 2W	47 Ω 2W	56 Ω 2W	47 Ω 2W
R11	—	10 Ω 2W	—	10 Ω 2W
R12	4.7 Ω 1W	2.2 Ω 1W	4.7 Ω 1W	2.2 Ω 1W
R13	4.7 Ω 1W	2.2 Ω 1W	4.7 Ω 1W	2.2 Ω 1W
R32	0 Ω 1/10W	—	0 Ω 1/10W	—
R33	0 Ω 1/10W	—	0 Ω 1/10W	—
T3	BI9/6LHFD00004	BI9/6LHFD00009	BI9/6LHFD00004	BI9/6LHFD00004
T4	BI9/6LHFD00011	BI9/6LHFD00012	BI9/6LHFD00011	BI9/6LHFD00013
T5	BI9/6LHLD00001	BI9/6LHFD00010	BI9/6LHLD00001	BI9/6LHFD00010
TR3	2SC2540	2SC2782	2SC2540	2SC2782
TR4	2SC2540	2SC2782	2SC2540	2SC2782
W1	BI9/6ZCLD00058	—	BI9/6ZCLD00058	—

EXCITER AMP

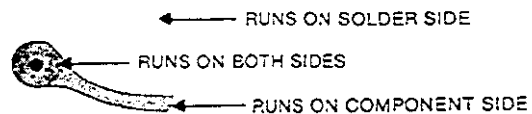
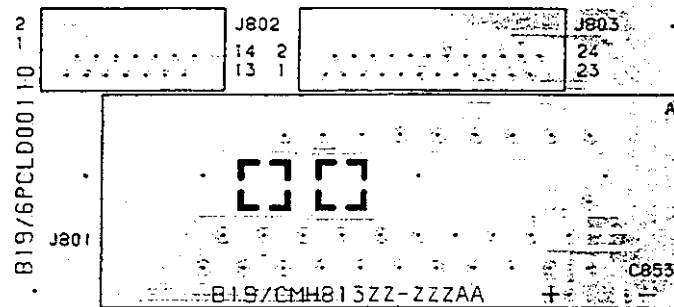


NOTE

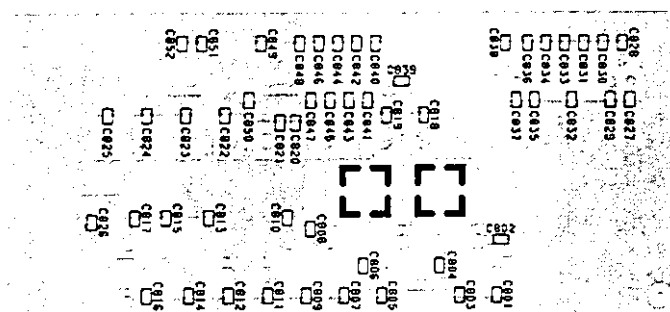
"#" IDENTIFIES CHIP COMPONENTS (EXAMPLE #C171) WHICH ARE LOCATED ON SOLDER SIDE OF PWB.

ALL RESISTORS ARE 1/10 WATT UNLESS OTHERWISE SPECIFIED.
 RESISTOR VALUES IN Ω UNLESS FOLLOWED BY MULTIPLIER k OR M.
 CAPACITOR VALUES IN F UNLESS FOLLOWED BY MULTIPLIER u, n OR p.
 INDUCTANCE VALUES IN H UNLESS FOLLOWED BY MULTIPLIER m OR u.

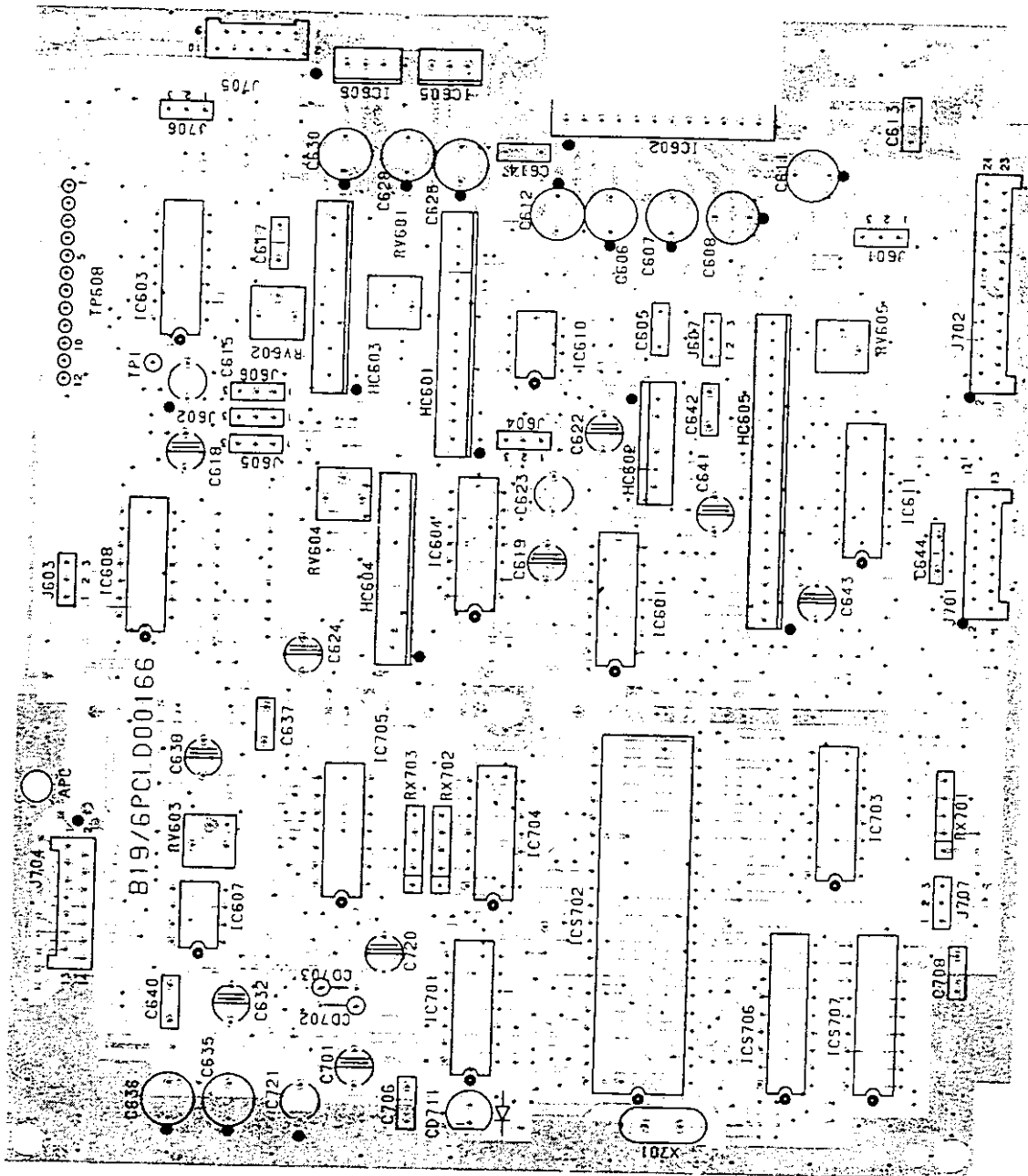
SCHEMATIC DIAGRAM
 29-50MHz EXCITER
 DD00-CMN-203



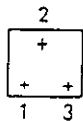
INTERFACE BOARD
(COMPONENT SIDE)



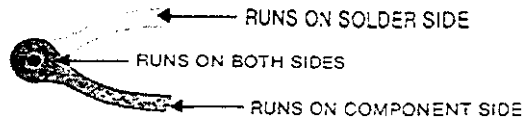
INTERFACE BOARD
(SOLDER SIDE)



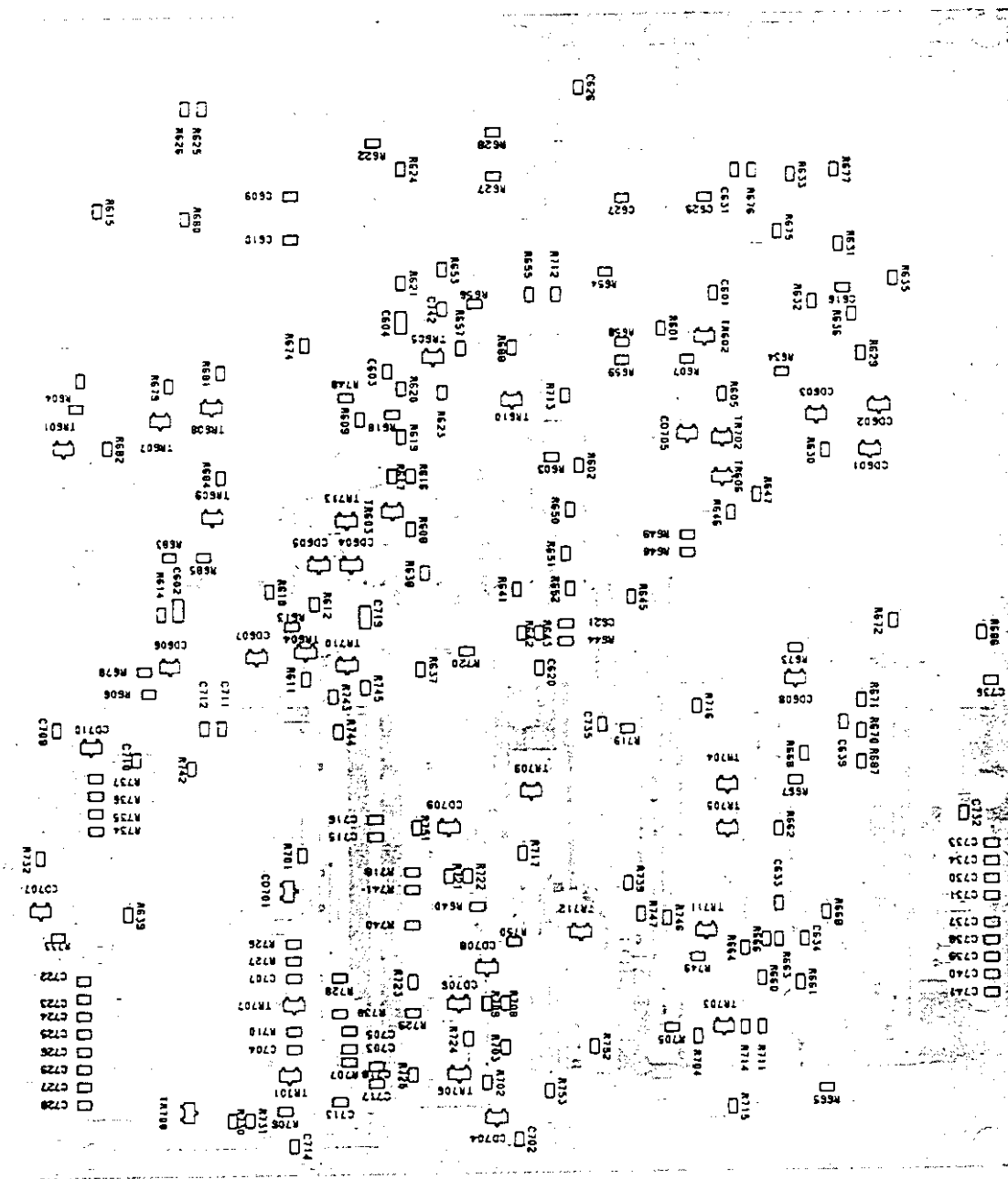
LEAD IDENTIFICATION
FOR VOLUME



(TOP VIEW)



SYSTEM CONTROL BOARD
(COMPONENT SIDE)

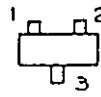


LEAD IDENTIFICATION
FOR TRANSISTOR



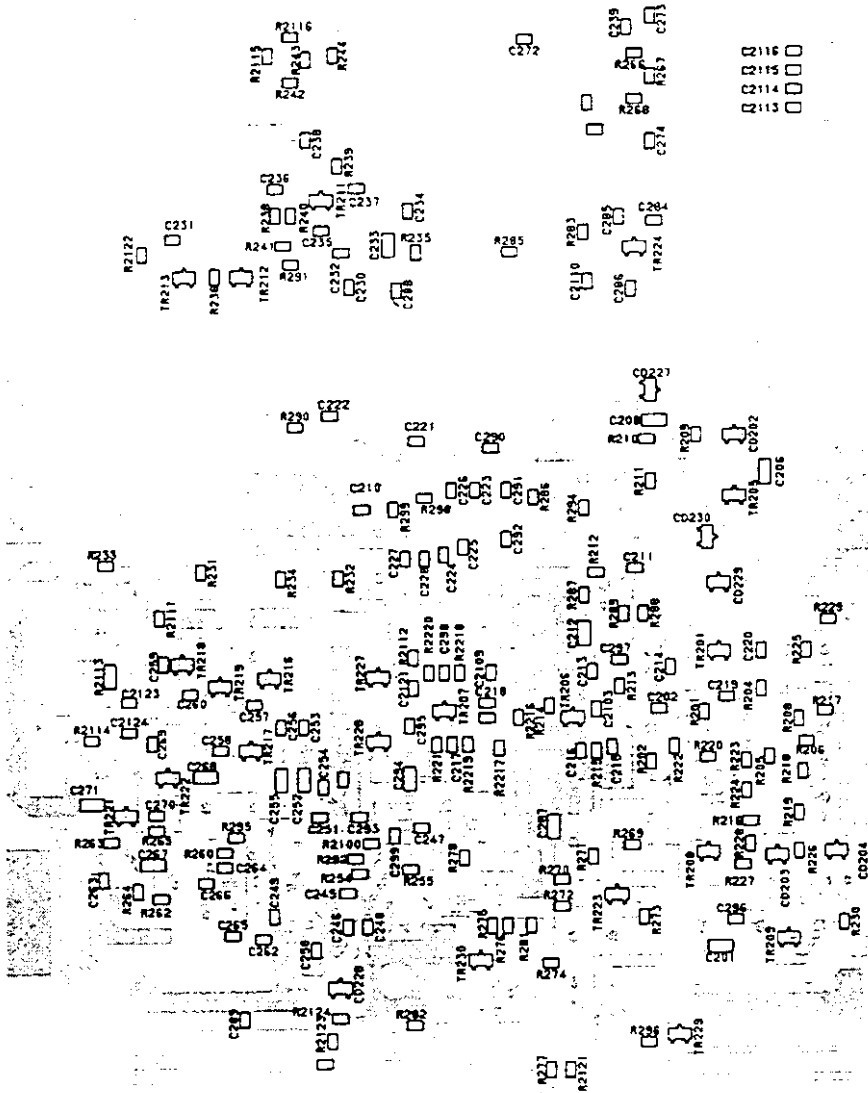
(TOP VIEW)

LEAD IDENTIFICATION
FOR DIODES

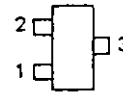


(TOP VIEW)

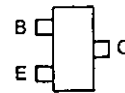
SYSTEM CONTROL BOARD
(SOLDER SIDE)



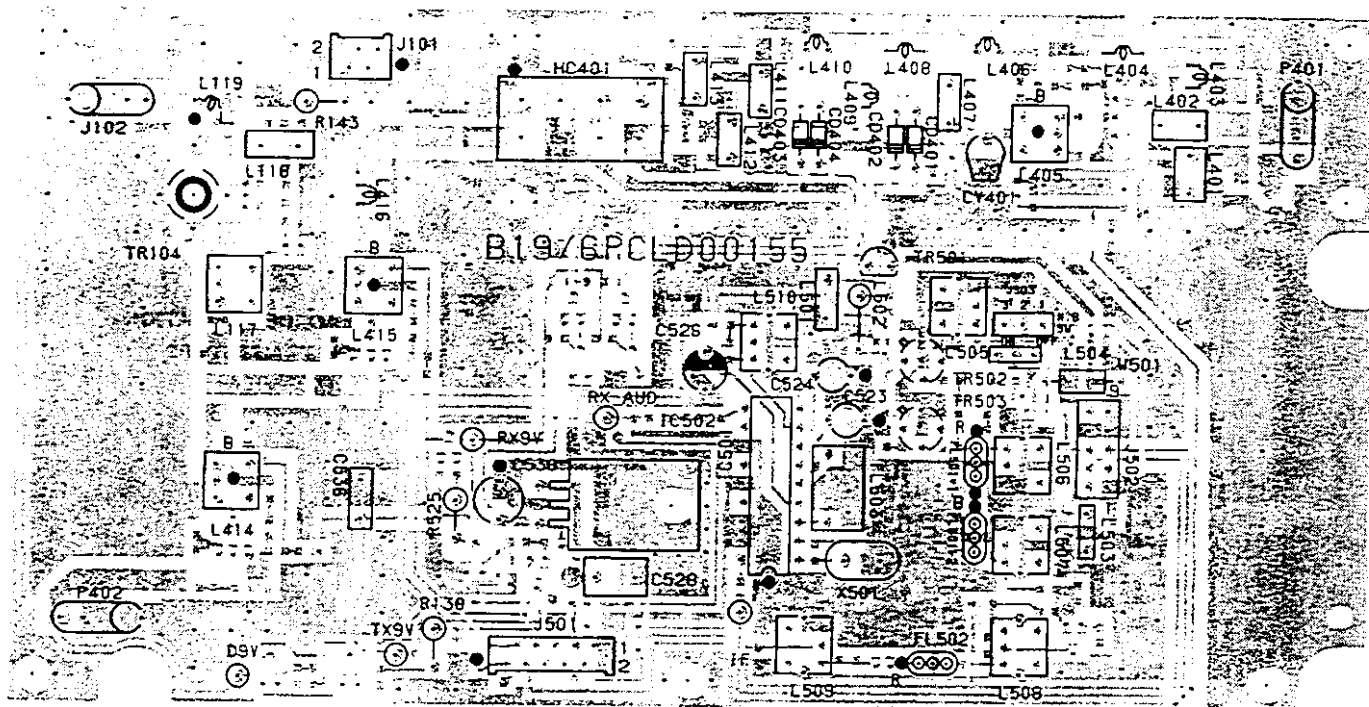
LEAD IDENTIFICATION
FOR DIODES
(TOP VIEW)



LEAD IDENTIFICATION
FOR TRANSISTORS
(TOP VIEW)



FREQUENCY SYNTHESIZER
(SOLDER SIDE)

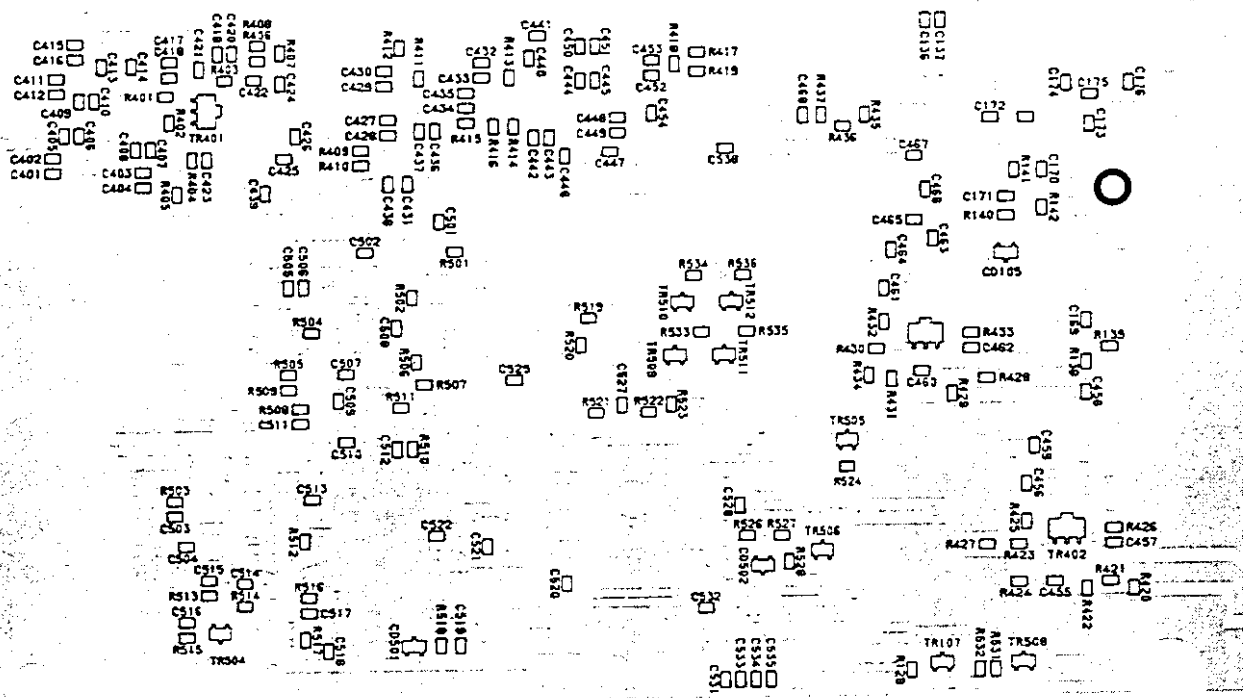


← RUNS ON SOLDER SIDE

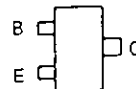
- RUNS ON BOTH SIDES

- RUNS ON COMPONENT SIDE

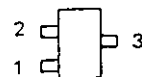
RECEIVER/EXCITER BOARD
(COMPONENT SIDE)



LEAD IDENTIFICATION
FOR CD 501
(TOP VIEW)



LEAD IDENTIFICATION
FOR TRANSISTORS
(TOP VIEW)



RECEIVER/EXCITER BOARD
(SOLDER SIDE)







SCHEMATIC DIAGRAM
SYSTEM CONTROL
DDO0-CMC-486

D D O O - C M C - 4 8 6

- | | |
|---|---|
| 3 | P601 2.3 NORMAL CONNECTION
2.3 ALERT TONE/HF PA DISABLE |
| 4 | P602 3.2 CG TONE REJECT FILTER USED
2.3 CG TONE REJECT FILTER NOT USED |
| 5 | P603 3.2 RECEIVE CG POLARITY NORMAL
2.3 RECEIVE CG POLARITY INVERTED |
| 6 | P604 2.1 TRANSMIT CG POLARITY NORMAL
2.3 TRANSMIT CG POLARITY INVERTED |
| 7 | P605 2.3 NORMAL
2.3 WITH VOICE GUARD |
| 8 | P606 1.2 NORMAL
2.3 WITH VOICE GUARD |
| 9 | P607 1.2 NORMAL
2.3 WITH VOICE GUARD |

DC VOLTAGE CHECK
SQUELCH CIRCUIT SHOWN FOR UNSQUELCHED/SQUELCHED
AUDIO PROCESSOR CIRCUIT SHOWN FOR DPTT LOW/DPTT HIGH

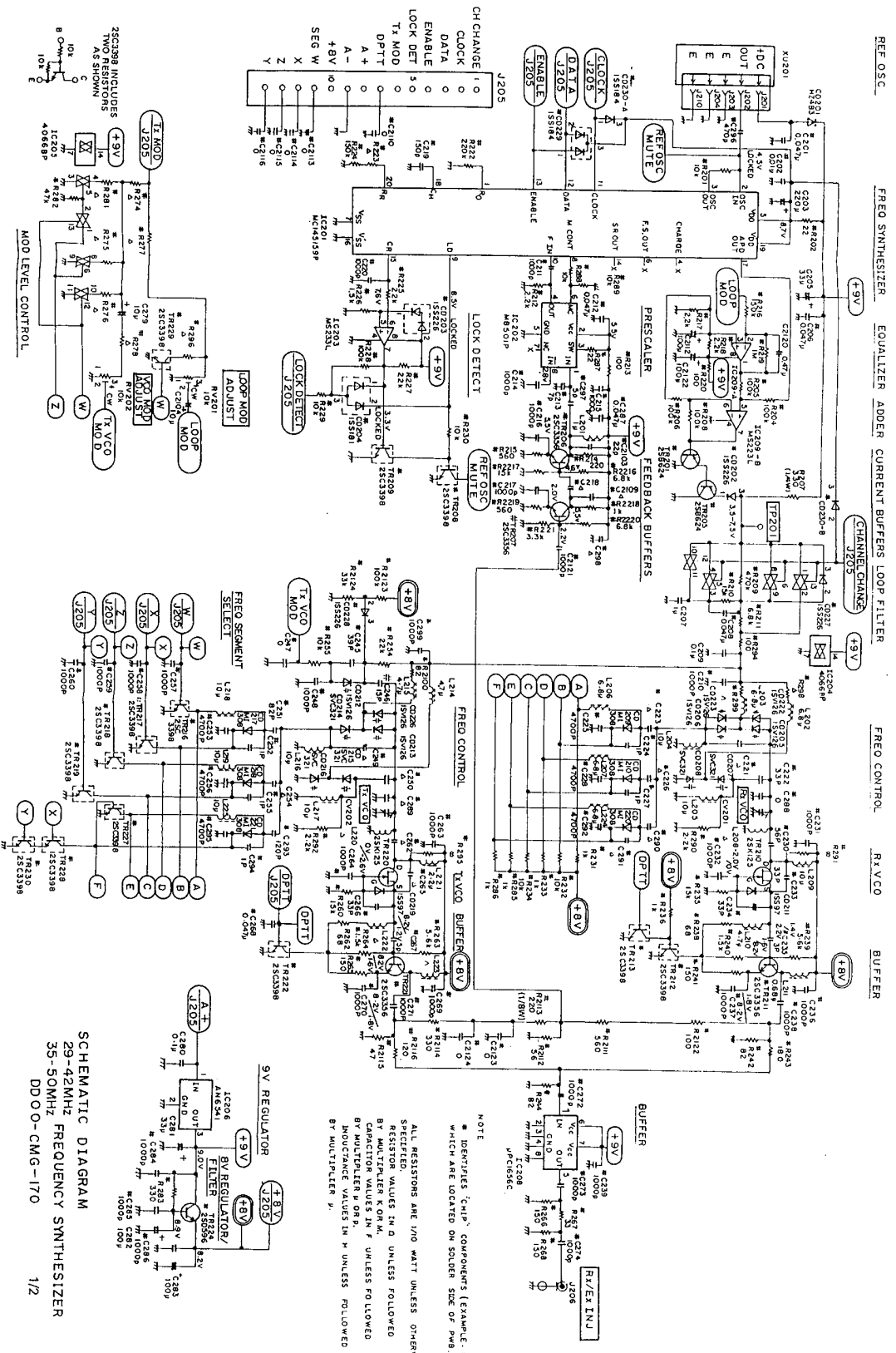
18 V	QND
IC6801:14	IC6801:7
IC6801:4	IC6803:11
IC6801:4	IC6804:11
—	IC6807:4
IC6808:14	IC6808:7
IC689:14	IC689:7

SPARE CABLE			
DEVICE	INPUT	OUTPUT	CONTROL
IC609	3	4	5
	8	9	6
	10	11	12

SPARE GATE			
DEVICE	INPUT	OUTPUT	CONTROL
IC609	3	4	5
	8	9	6
	10	11	12

TEST POINT
TP608

1	A -
2	TX MOD
3	R9V
4	5V
5	5V
6	
7	RX AUD
8	
9	CG DSB
10	EX 9V
11	+8V
12	PTT
13	9V
14	A +

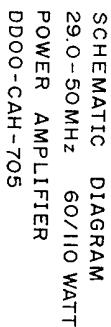


Δ COMPONENT IDENTIFICATION CHART

SYMBOL	CMG-170A (29-42 MHz)	CMG-170B (35-50 MHz)
C218	47pF	22pF
C221	18pF	27pF
C223	56pF	68pF
C226	18pF	22pF
C249	100pF	68pF
C250	120pF	100pF
C254	27pF	22pF
C262	150pF	100pF
C265	56pF	47pF
C289	18pF	4pF
C290	100pF	120pF
C291	1pF	10pF
C298	0.01μF	1000pF
C2109	100pF	0
L208	JR-NB-7561	JR-NB-7560
L220	JR-NB-7563	JR-NB-7562
L222	4.7μH	2.2μH
L223	1.5μH	1μH
R223	22kΩ	1kΩ
R270	47kΩ	33kΩ
R272	2.2kΩ	1kΩ
R274	4.7kΩ	6.8kΩ
R275	10kΩ	22kΩ
R276	4.7kΩ	6.8kΩ
R277	4.7kΩ	2.7kΩ
R278	8.2kΩ	18kΩ
R281	27kΩ	47kΩ
R296	56kΩ	33kΩ
R298	100Ω	82Ω
R299	100Ω	82Ω

SCHEMATIC DIAGRAM

29-42 MHz FREQUENCY SYNTHESIZER
 35-50 MHz
 DDOO-CMG-170 2/2



Δ COMPONENT IDENTIFICATION CHART

PART	BAND	CMN-203A	CMN-203B
C411	29-42MHz	35-50MHz	
C412	82P	68P	
C413	0P	0P	
C414	47P	56P	
C415	7P	0P	
C416	12P	100P	
C417	12P	7P	
C418	12P	18P	
C419	100P	82P	
C420	0P	0P	
C421	0P	0P	
C422	5P	0P	
C423	5P	0P	
C424	8P	8P	
C425	0P	0P	

PART	BAND	CMN-203A	CMN-203B
C431	29-42MHz	35-50MHz	
C432	18P	18P	
C433	2P	2P	
C434	10P	10P	
C435	0P	0P	
C436	47P	39P	
C437	0P	0P	
C438	33P	27P	
C439	100P	100P	
C440	100P	100P	
C441	100P	100P	
C442	100P	100P	
C443	100P	100P	
C444	100P	100P	
C445	100P	100P	
C446	100P	100P	
C447	100P	100P	
C448	100P	100P	
C449	100P	100P	
C450	100P	100P	

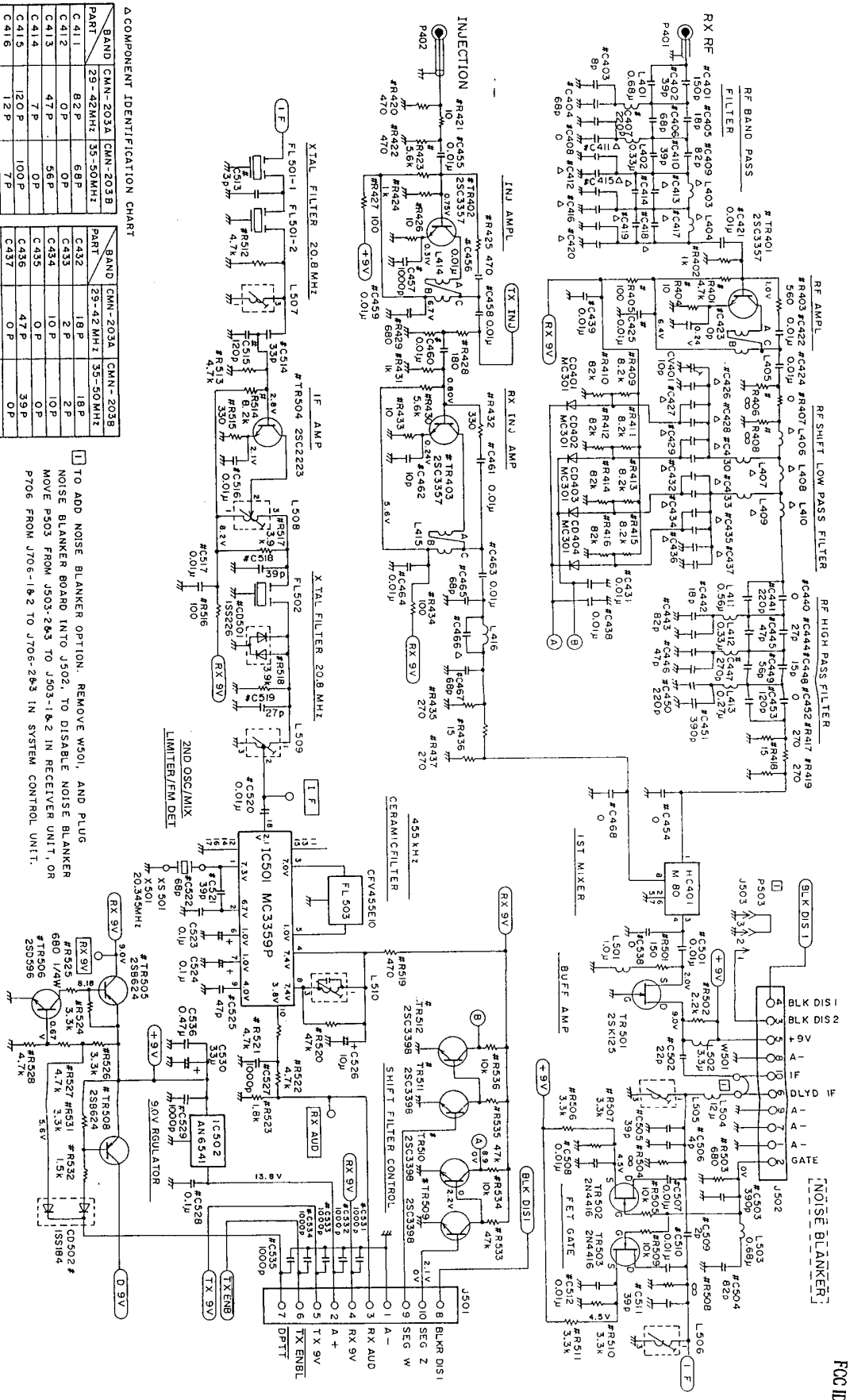
1 TO ADD NOISE BLANKER OPTION. REMOVE W501, AND PLUG NOISE BLANKER BOARD INTO J502, TO DISABLE NOISE BLANKER. MOVE P503 FROM J503-263 TO J503-182 IN RECEIVER UNIT, OR P706 FROM J706-182 TO J706-263 IN SYSTEM CONTROL UNIT.

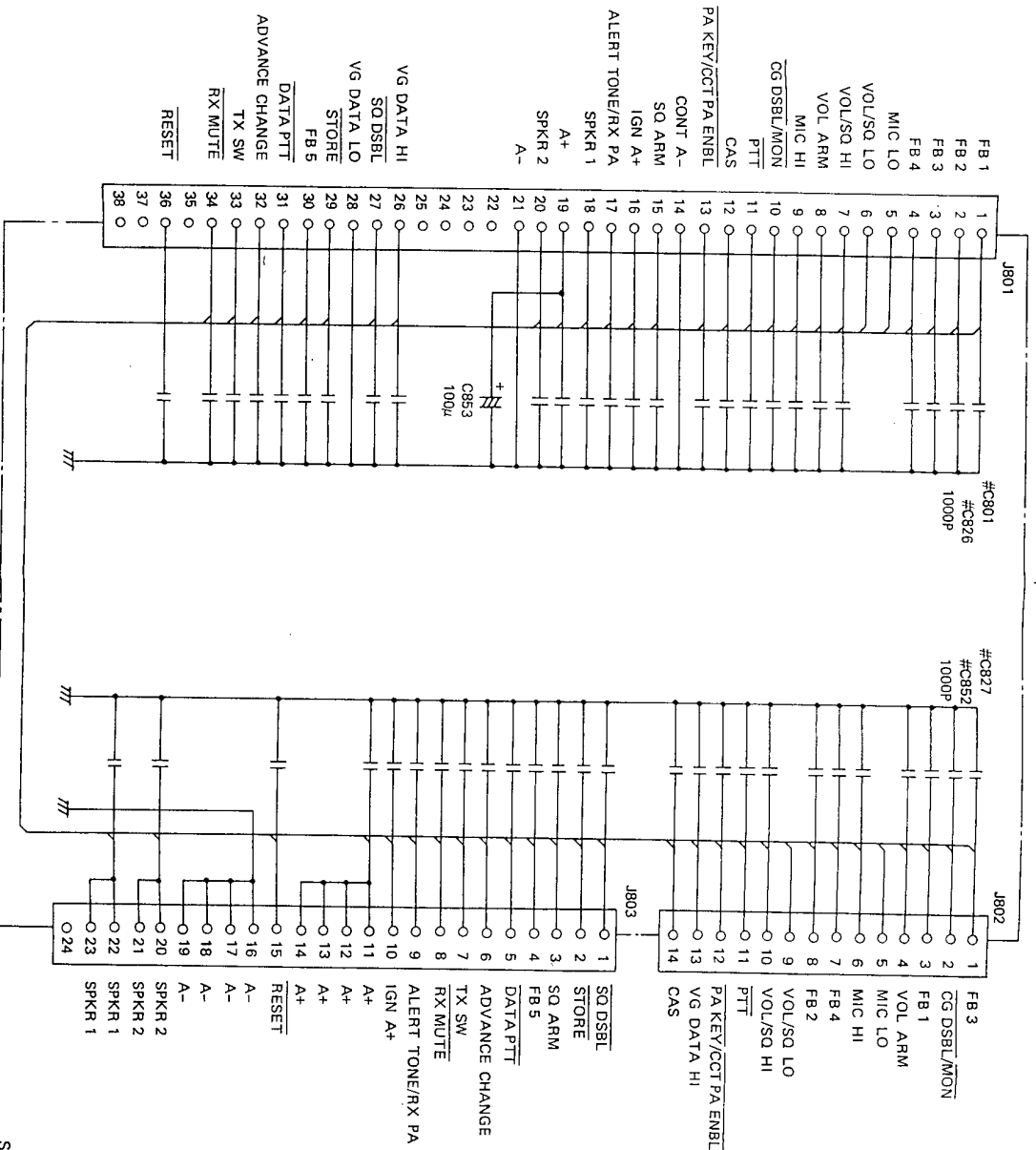
NOTE

"#" IDENTIFIES CHIP COMPONENTS (EXAMPLE #C401) WHICH ARE LOCATED ON SOLDER SIDE OF PWB.

ALL RESISTORS ARE 1/10 WATT UNLESS OTHERWISE SPECIFIED. RESISTOR VALUES IN Ω UNLESS FOLLOWED BY MULTIPLIER X OR M. CAPACITOR VALUES IN P UNLESS FOLLOWED BY MULTIPLIER μ OR P. INDUCTANCE VALUES IN H UNLESS FOLLOWED BY MULTIPLIER m OR μ.

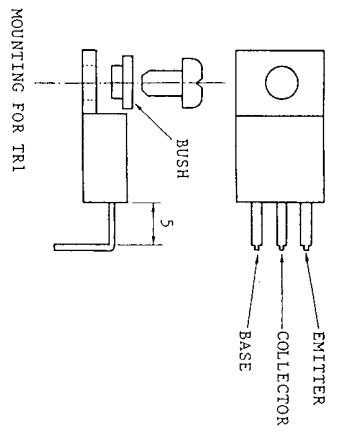
SCHEMATIC DIAGRAM
29-50MHz RECEIVER
DD00-CMN-203



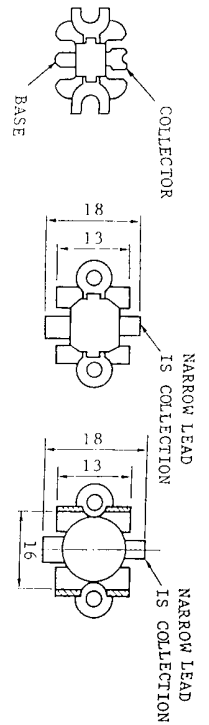


SCHEMATIC DIAGRAM
INTERFACE
DDOO-CMH-813

LEAD IDENTIFICATION FOR TR1

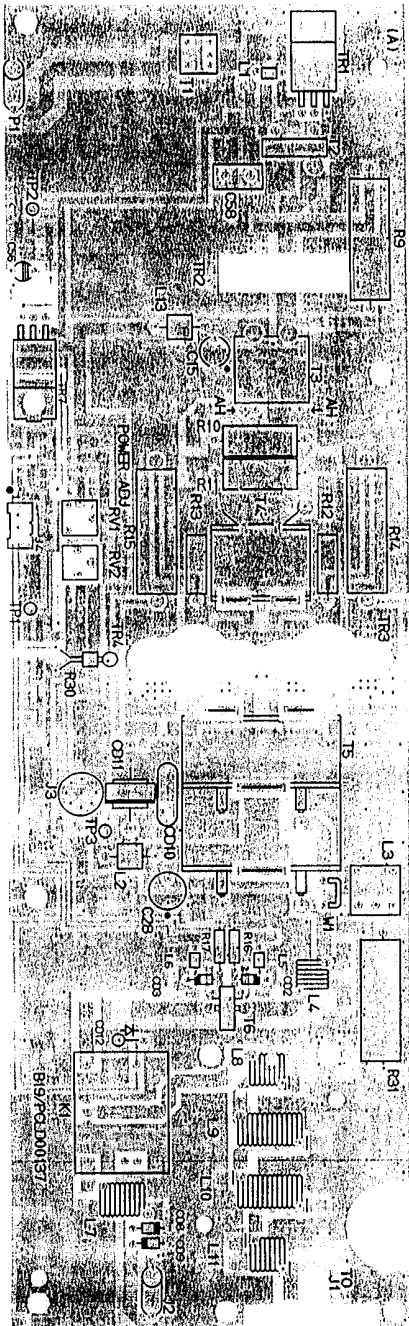


LEAD IDENTIFICATION
FOR TR 2

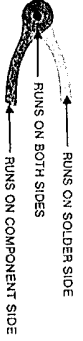


TYP LEAD TRIMMING
FOR TR 3 AND TR 4
(Used in AL and BL)

TYP LEAD TRIMMING INCLUDING MARK
FOR TR 3 AND TR 4
(Used in AH and BH)



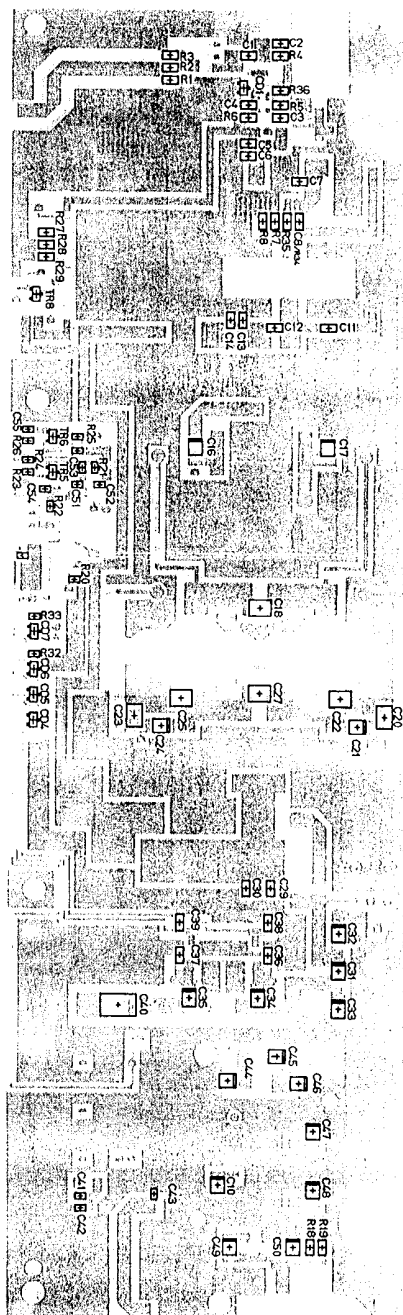
POWER AMPLIFIER BOARD
(COMPONENT SIDE)



LEAD IDENTIFICATION
FOR CD1, CD8, CD13, CD14 and CD15
(TOP VIEW)



LEAD IDENTIFICATION
FOR TRANSISTORS
(TOP VIEW)



NO COMPONENTS ARE MOUNTED
ON THE BACK OF COMPONENT SIDE

POWER AMPLIFIER BOARD

(CHIP COMPONENT ALLOCATION)