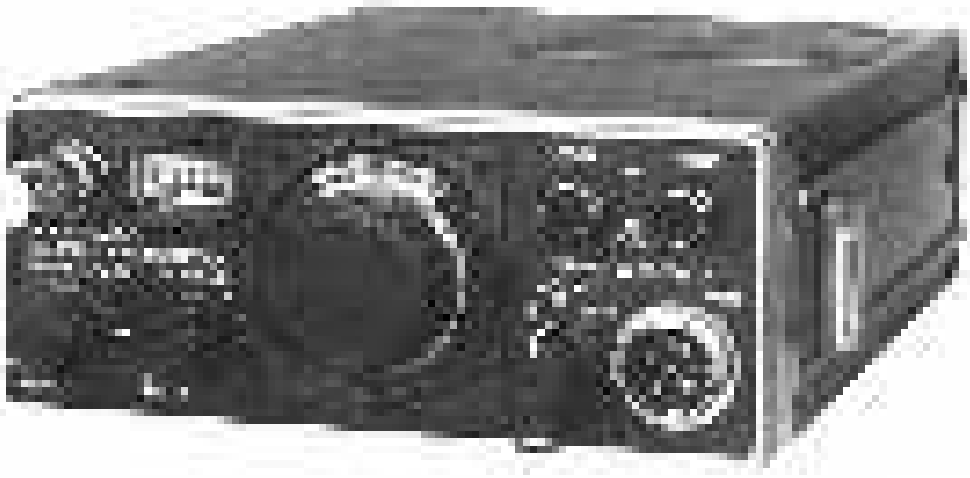
KENWOOD

SERVICE MANUAL

Model TR-2300



2m FM HANDY TRANSCEIVER

CONTENTS

[illegible]
[illegible]
[illegible]

GENERAL CIRCUIT DESCRIPTION

[illegible]

[illegible]

CIRCUIT DESCRIPTION

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]
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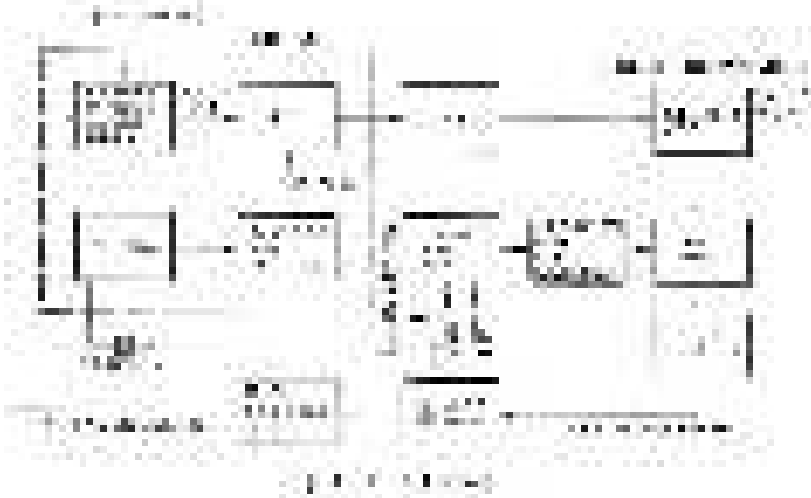
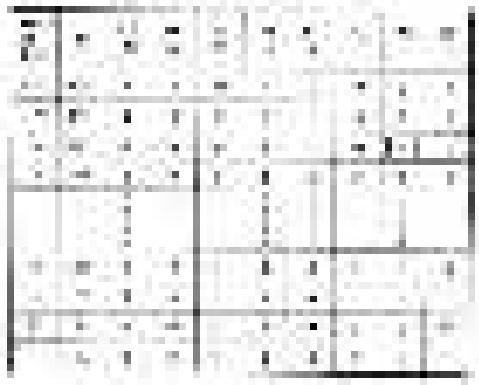
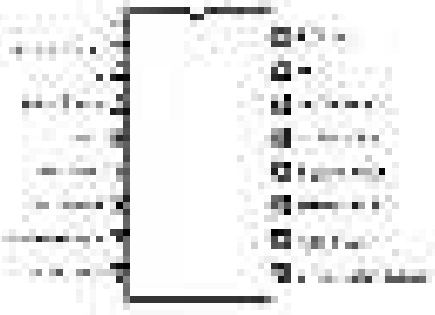
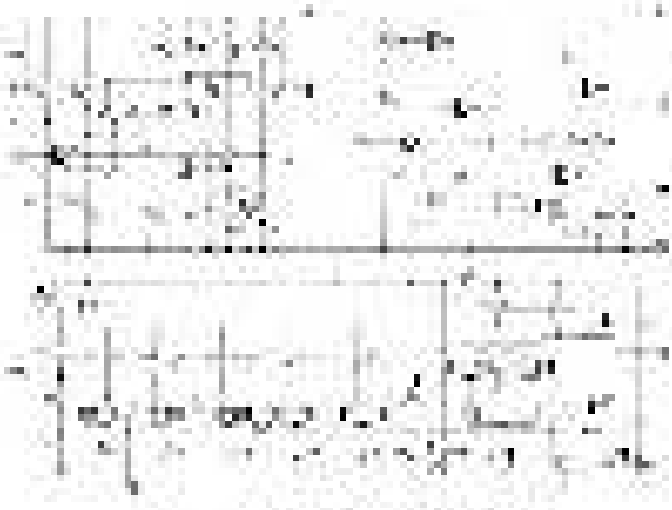


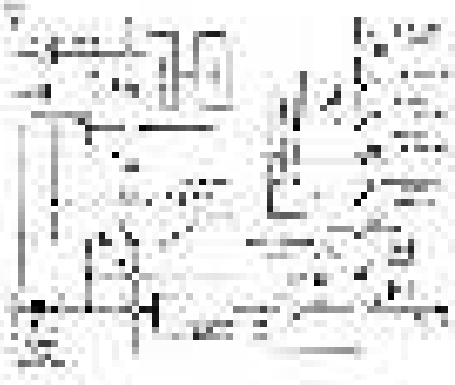


AUTOMATIC CAPTURE

ACCURACY







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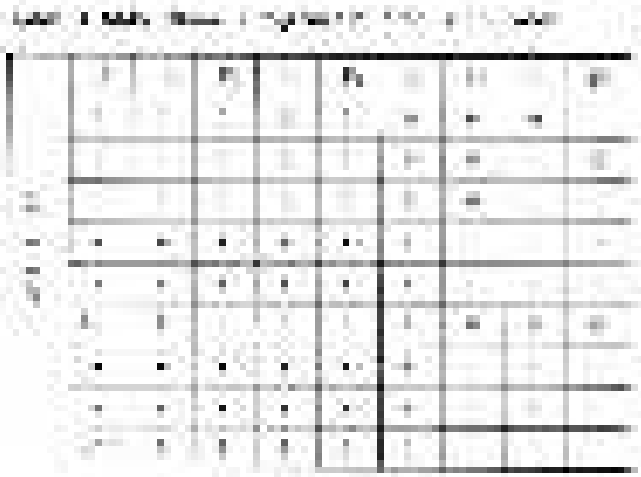

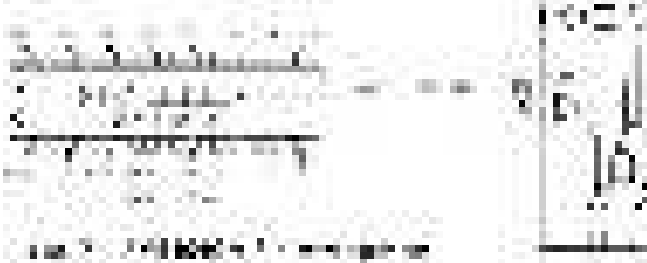

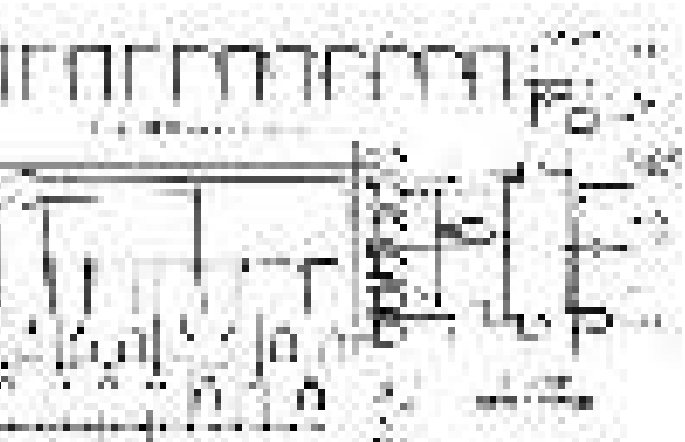

DATA

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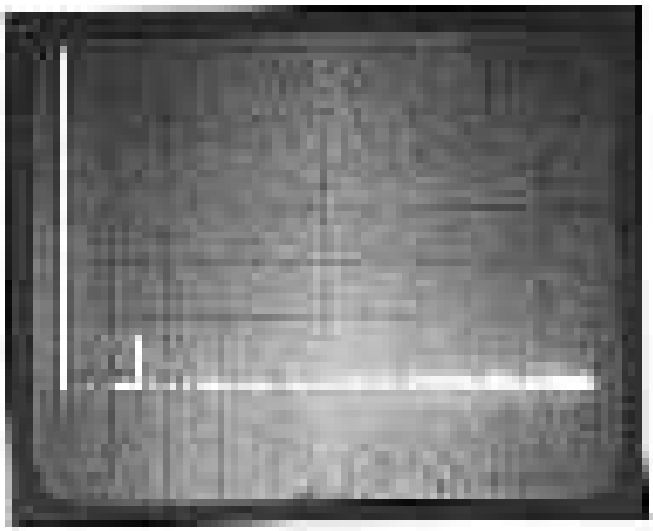
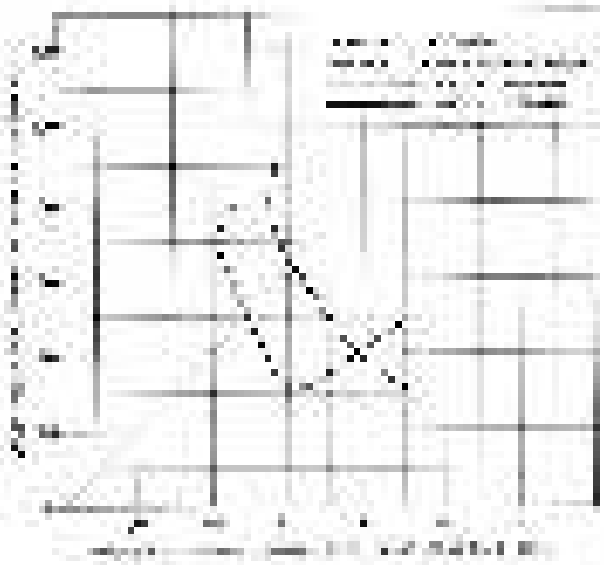
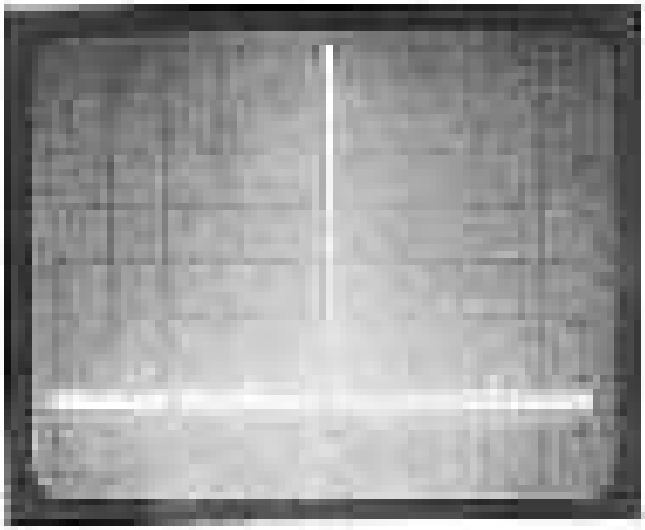
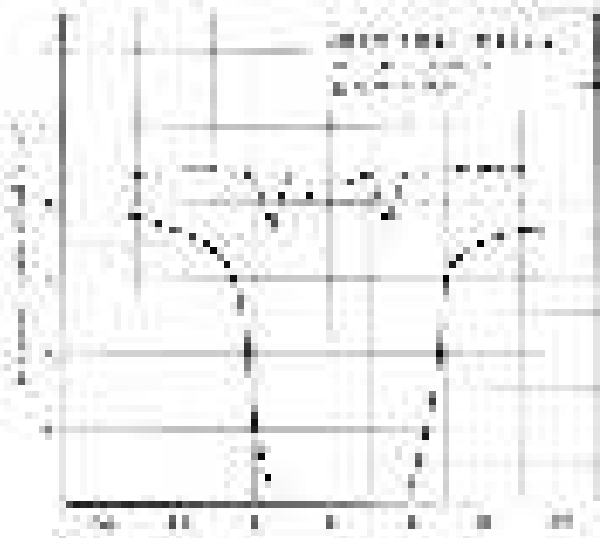
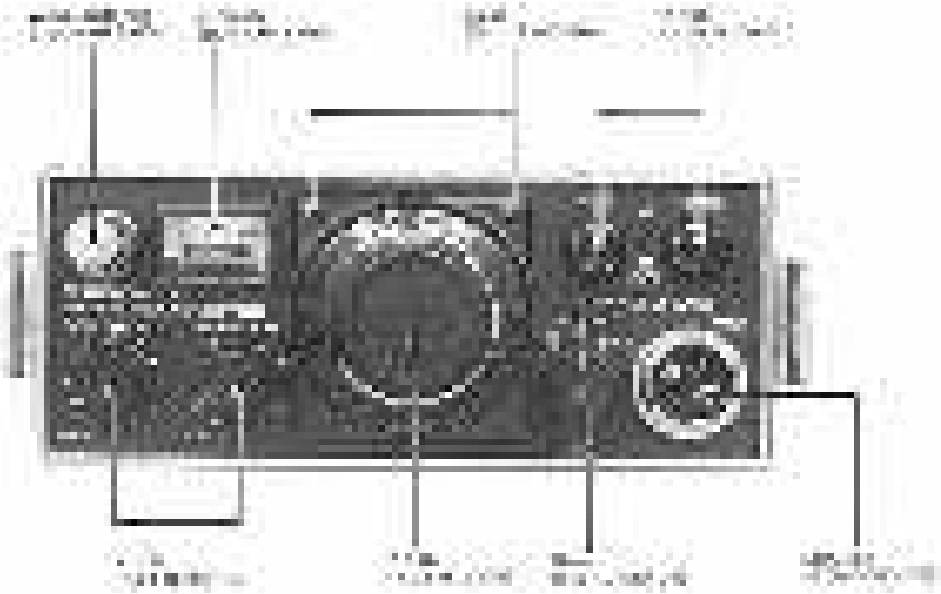


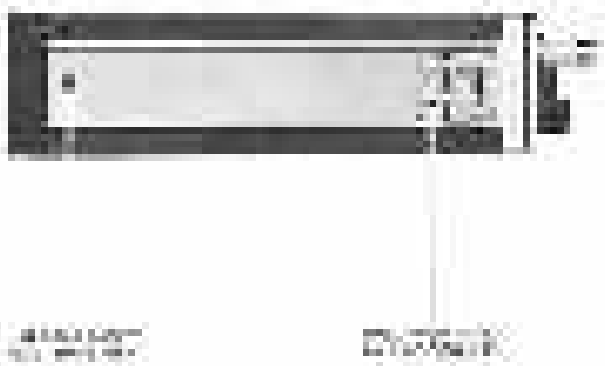






PARTS ALIGNMENT





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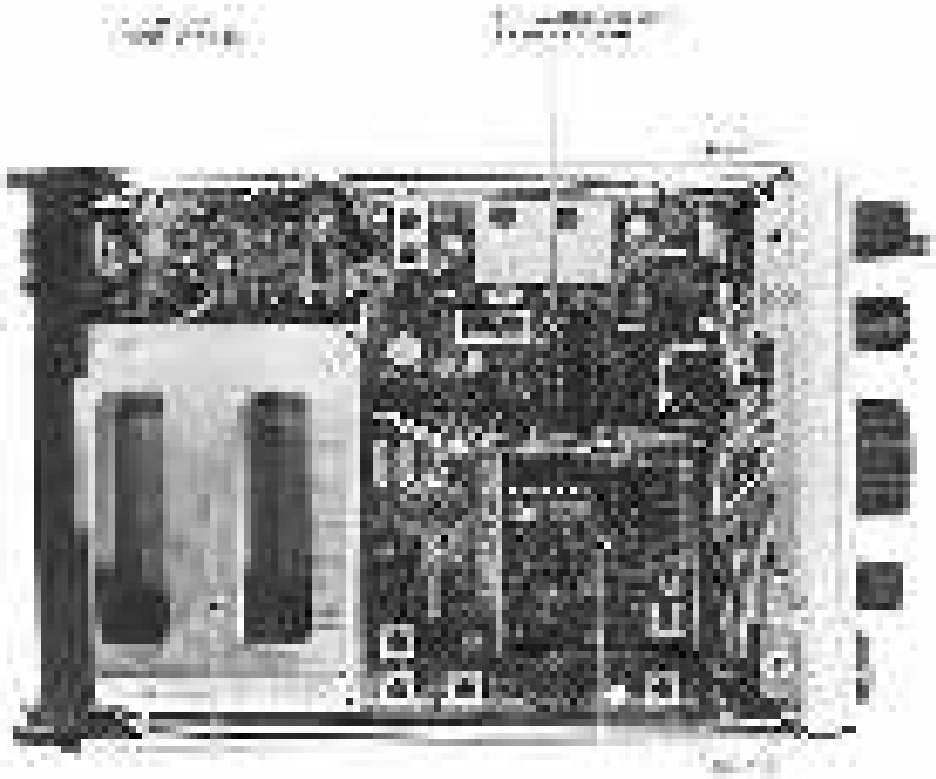
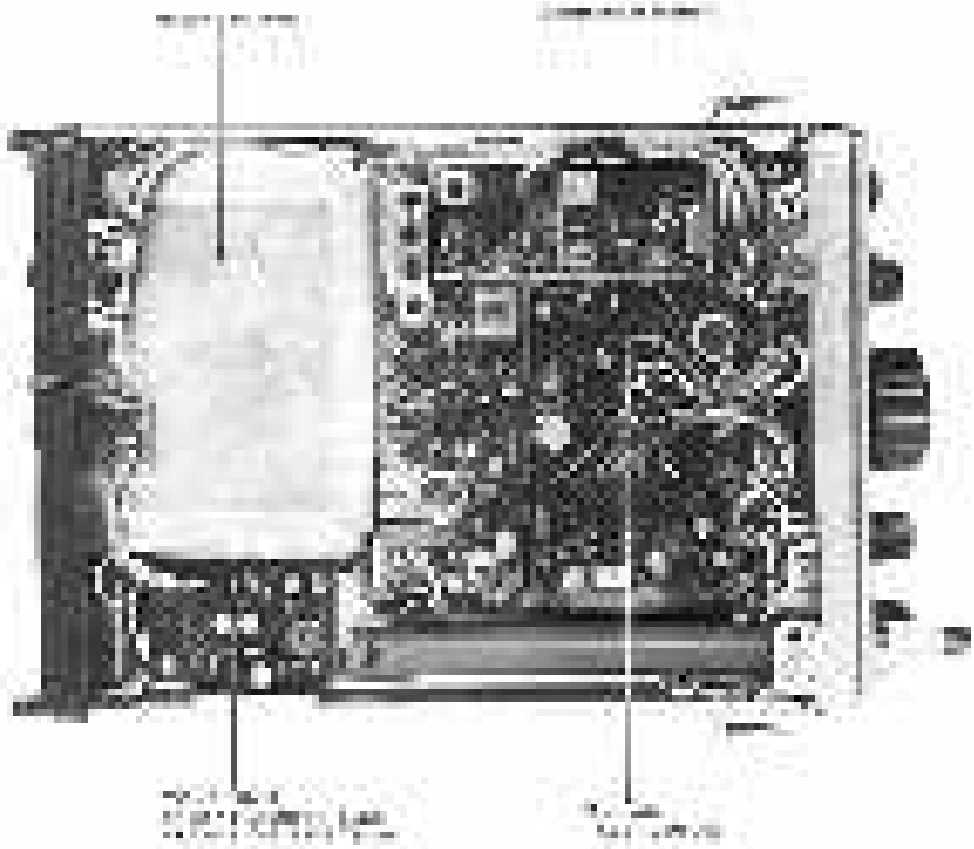
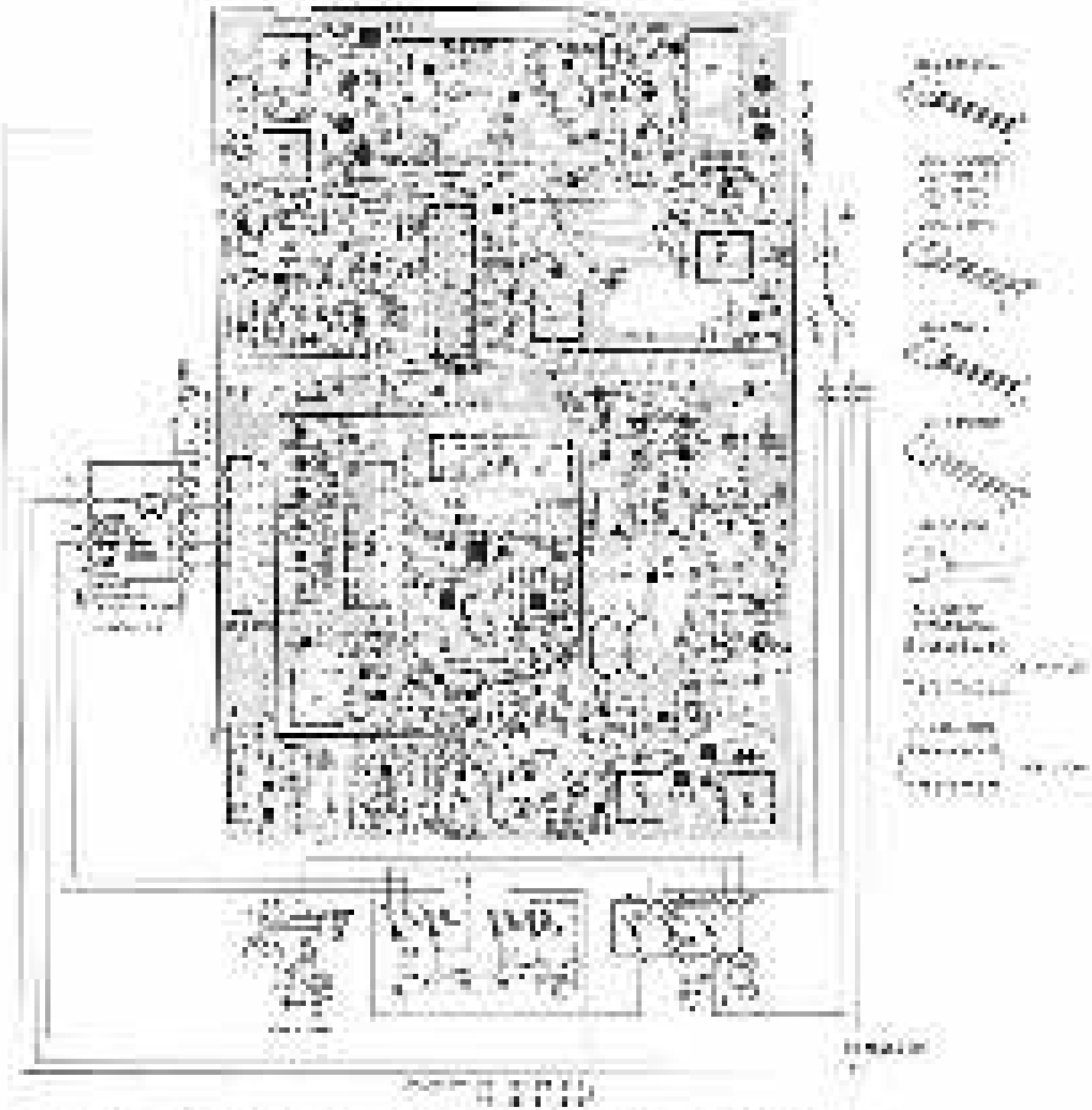




PRINTED CIRCUIT BOARD



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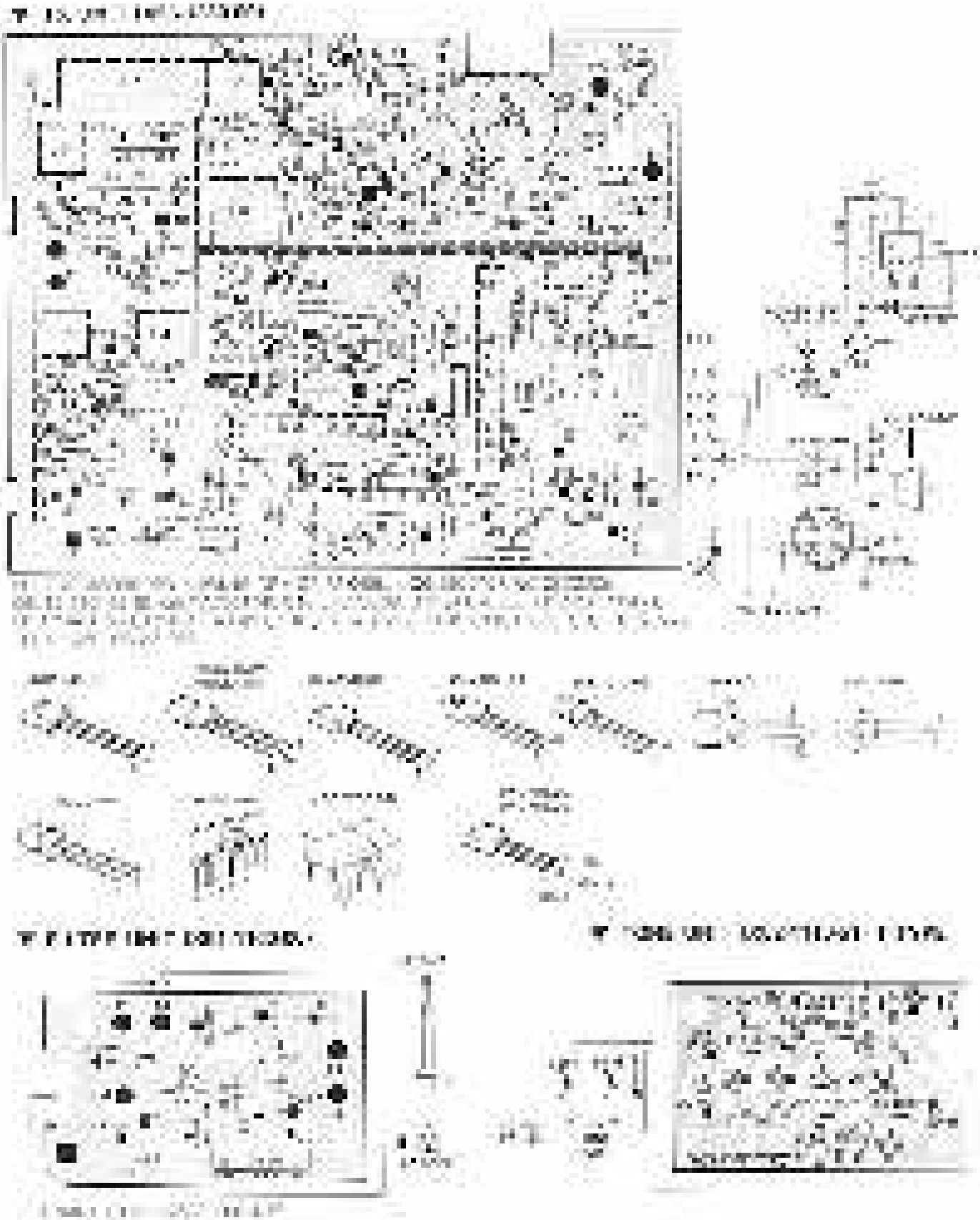

PARTS LIST

[illegible]

PARTS LIST

PARTS LIST

PARTS LIST(PACKING)

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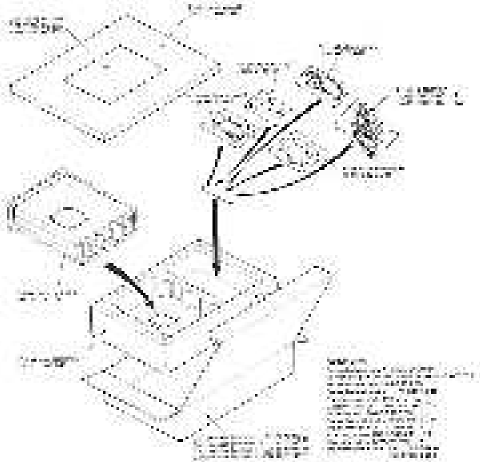

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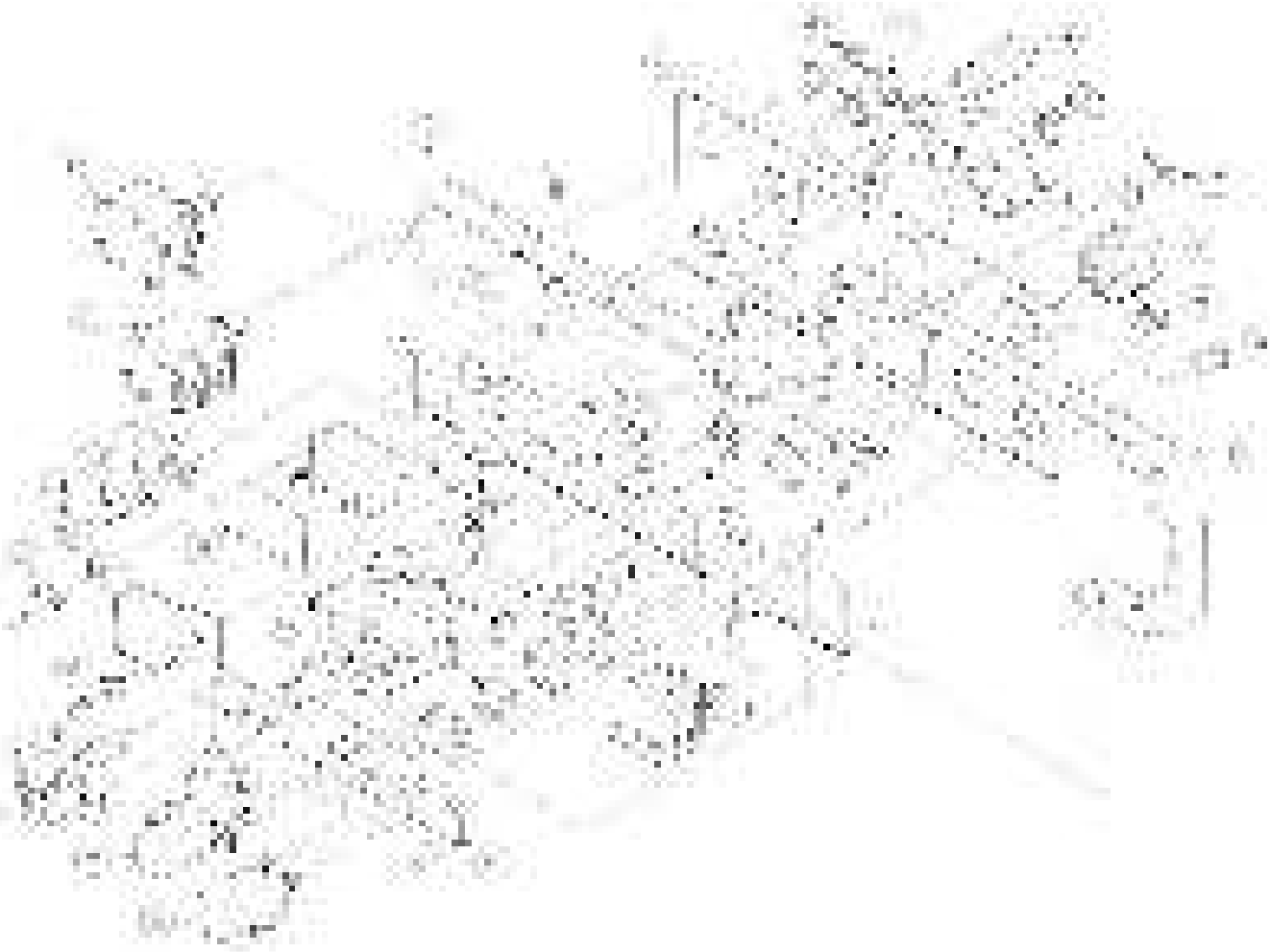

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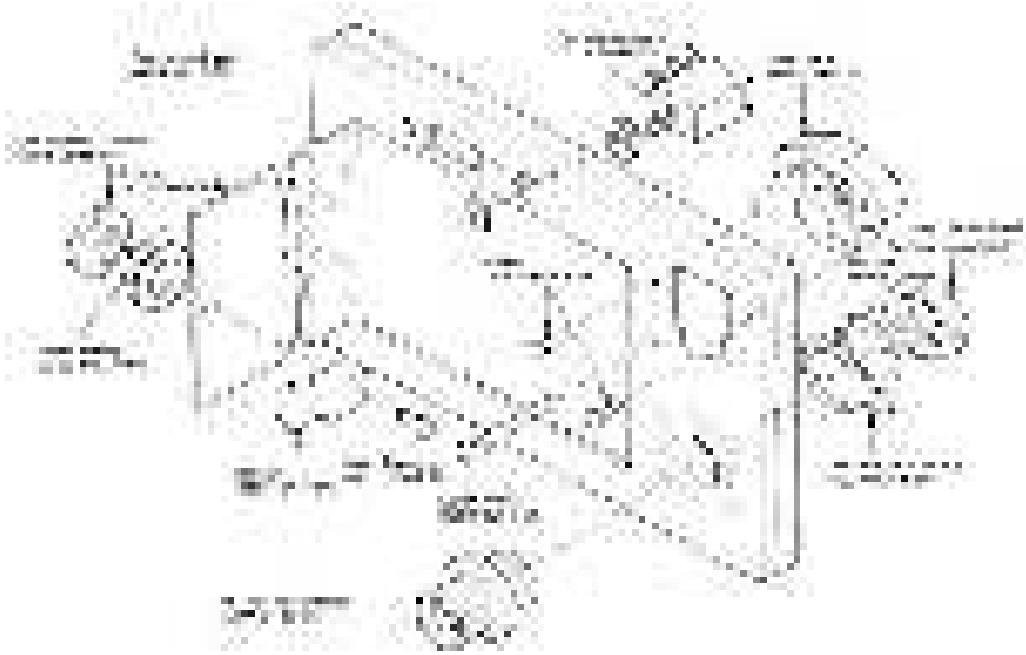
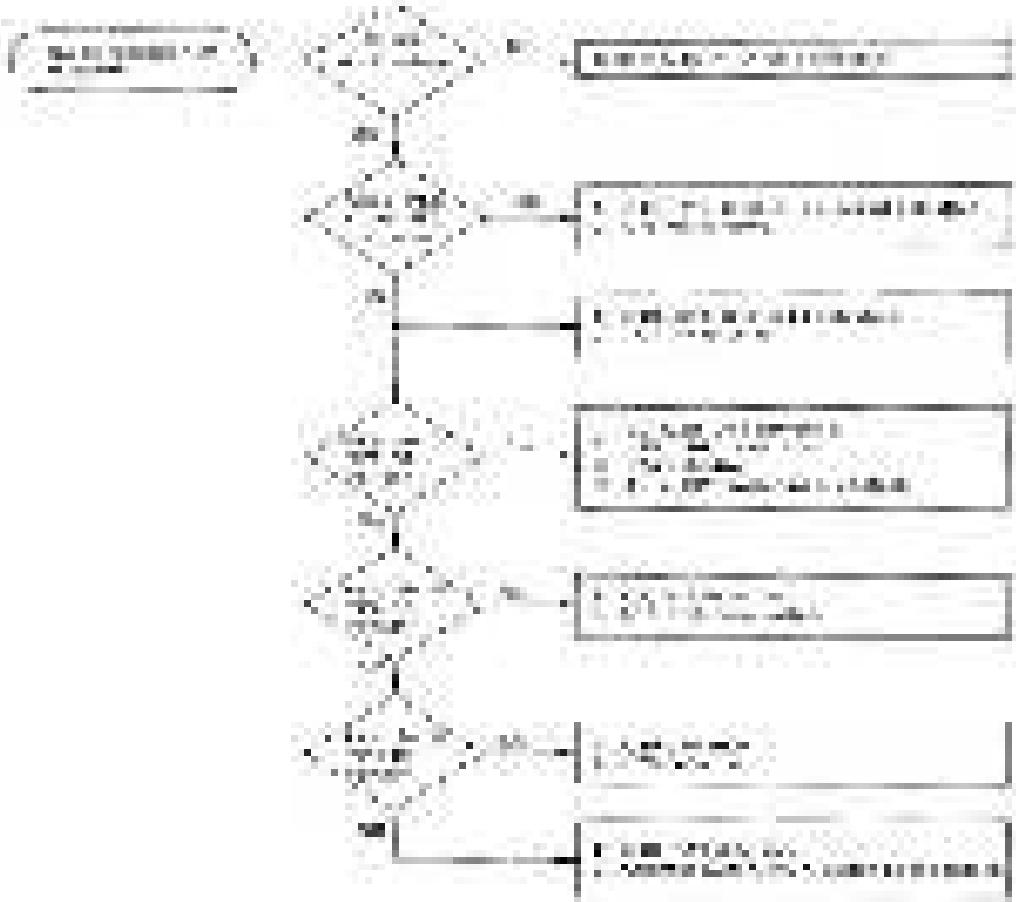
DISASSEMBLY, TROUBLE SHOOTING





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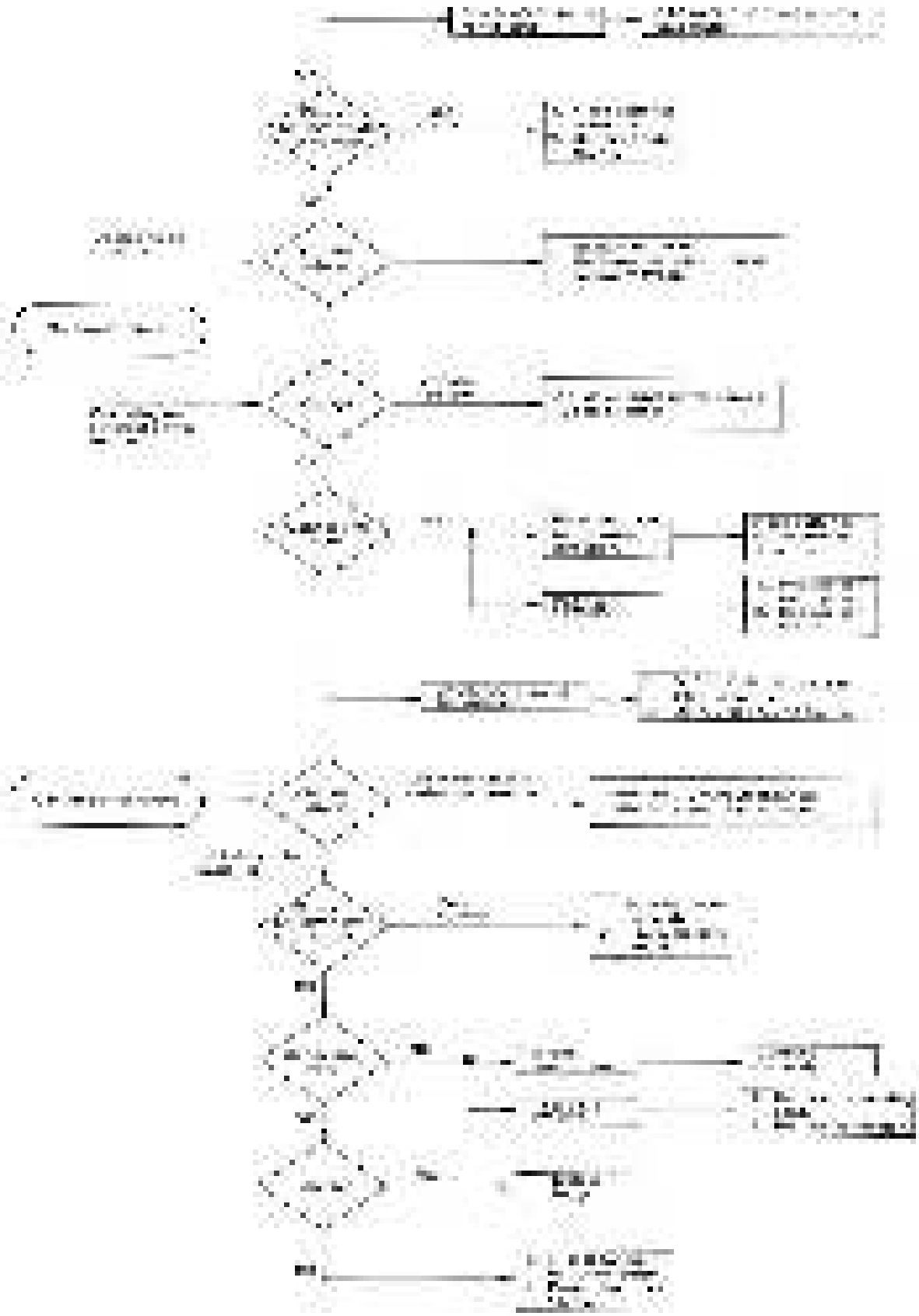

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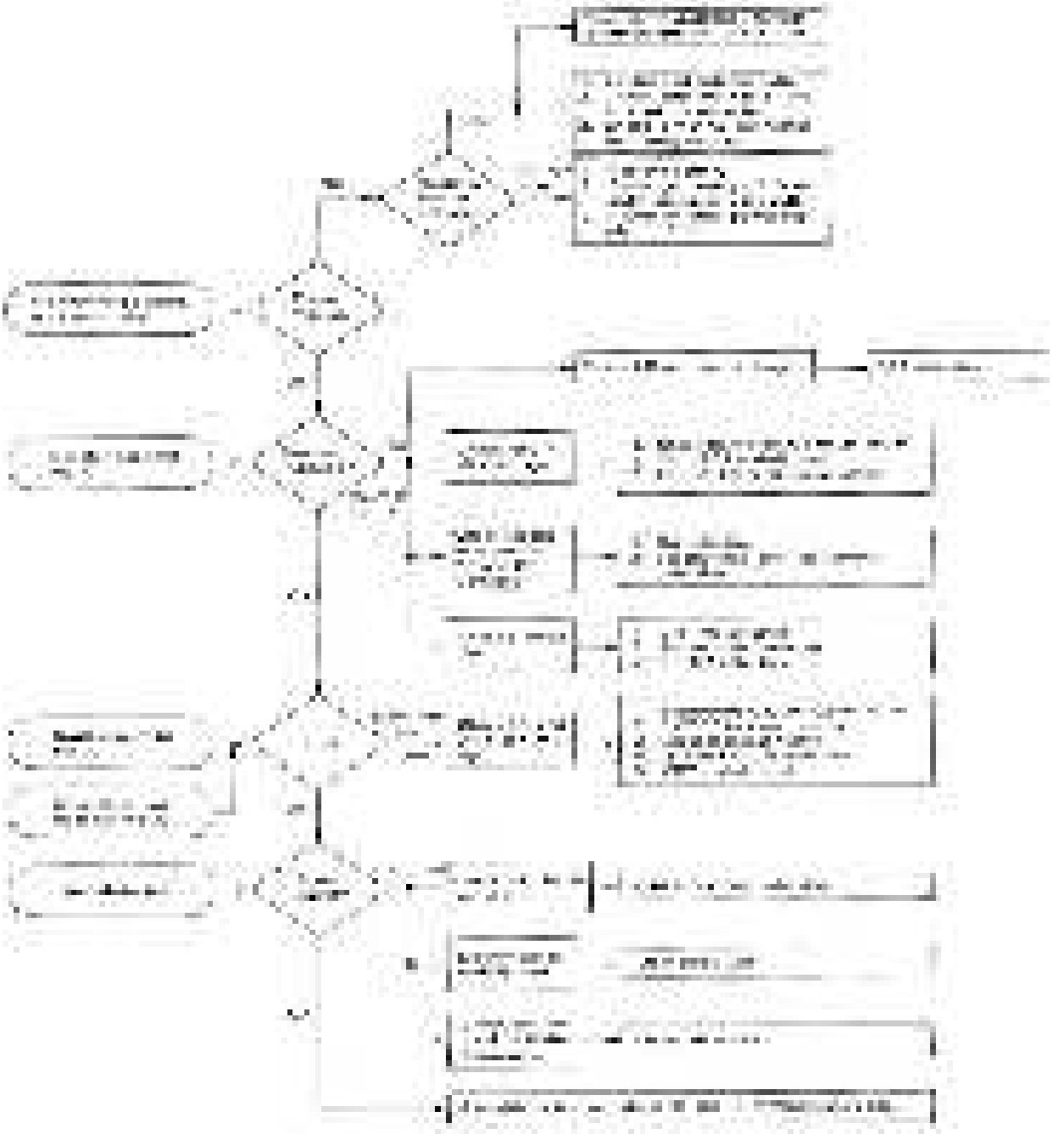

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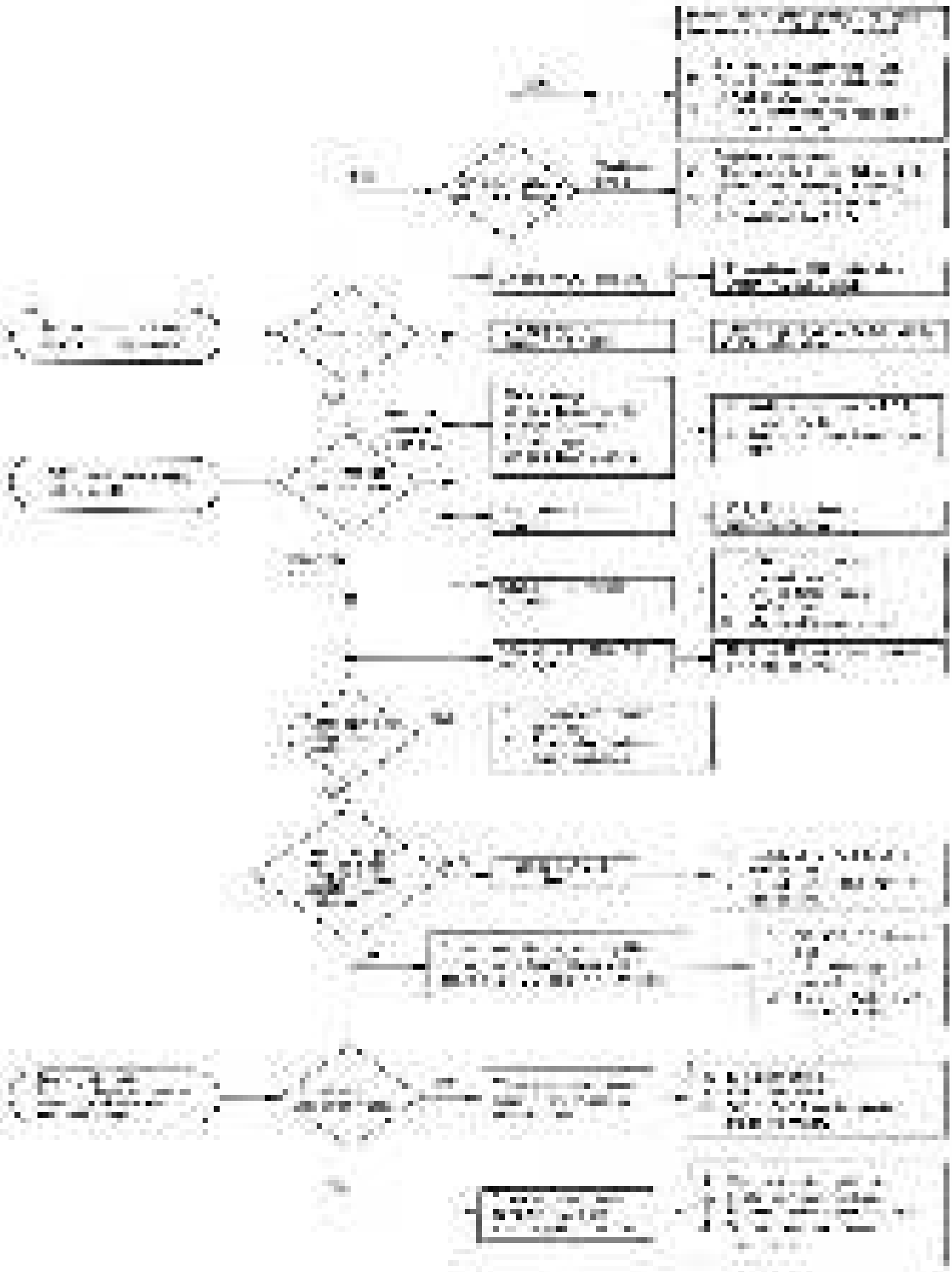
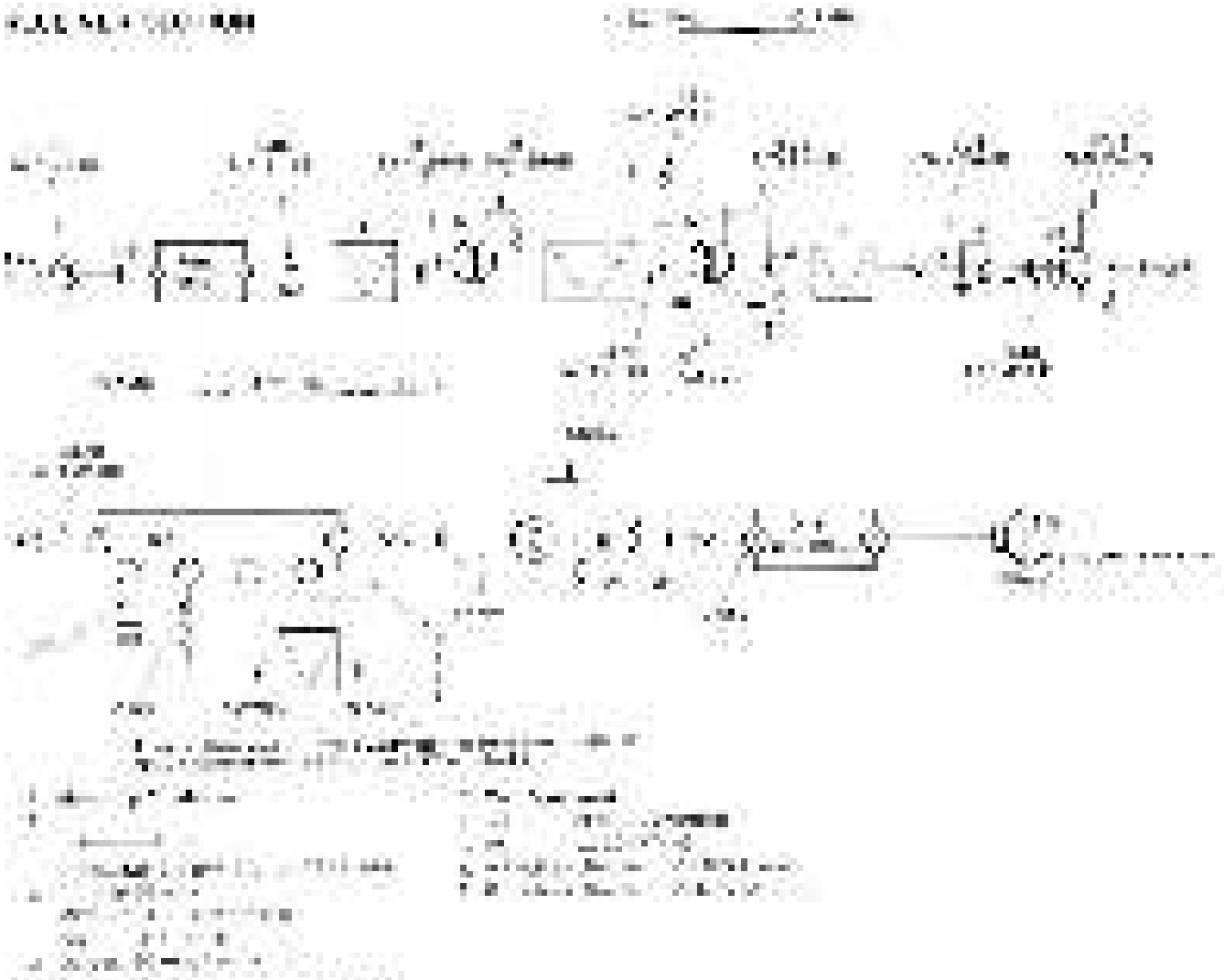
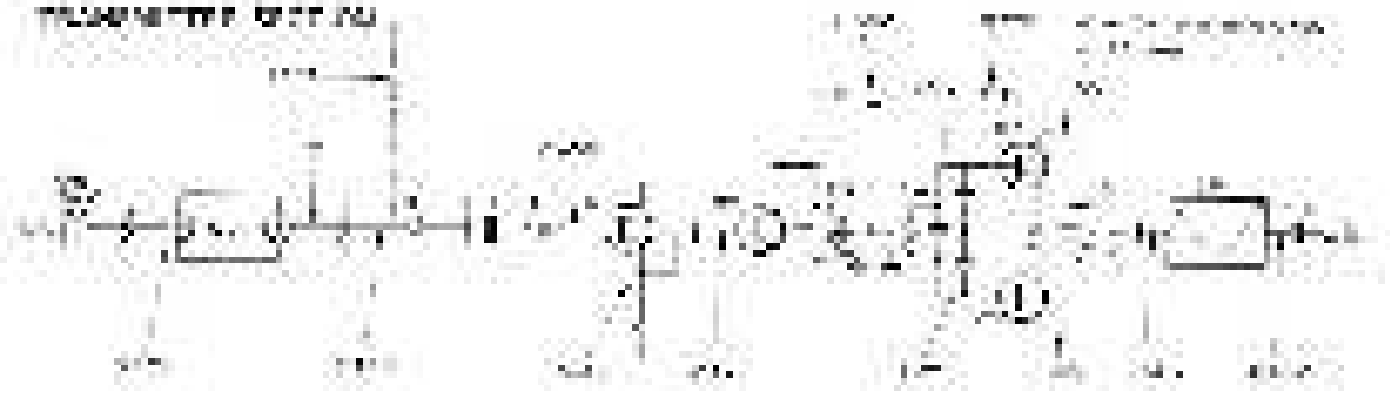
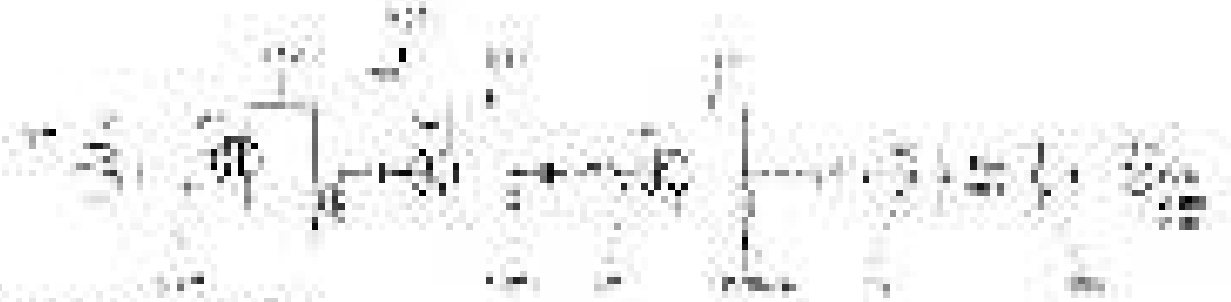


LEVEL DIAGRAM



LEVEL DIAGRAM





ADJUSTMENT

[illegible]

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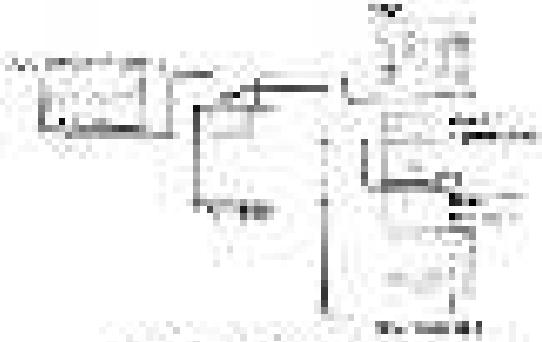
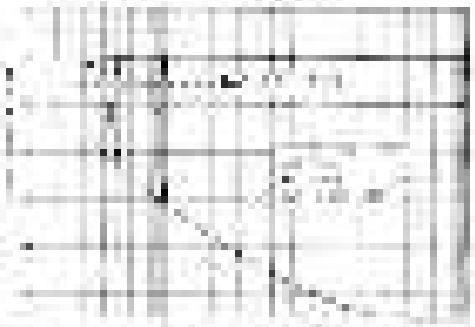
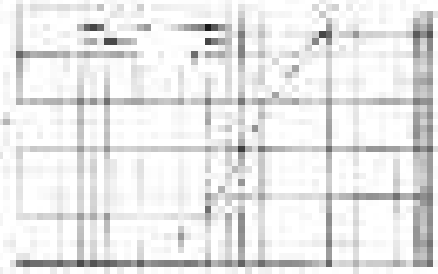
[illegible]

ADJUSTMENT

ADJUSTMENT







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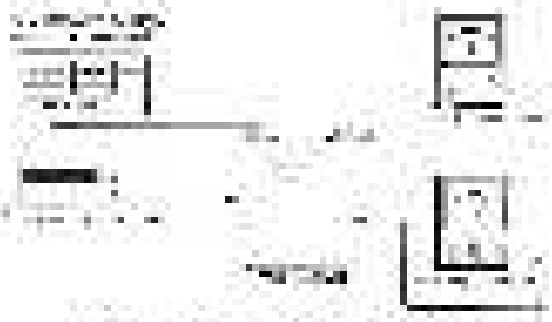
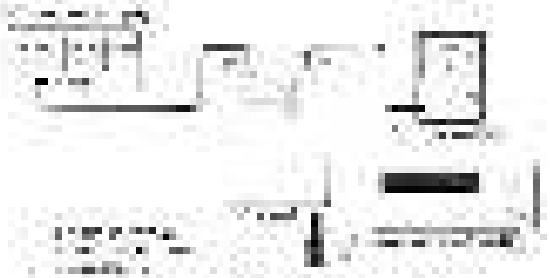
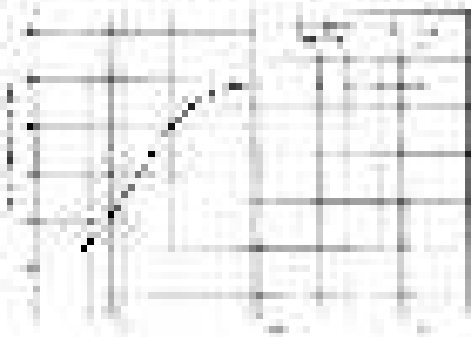
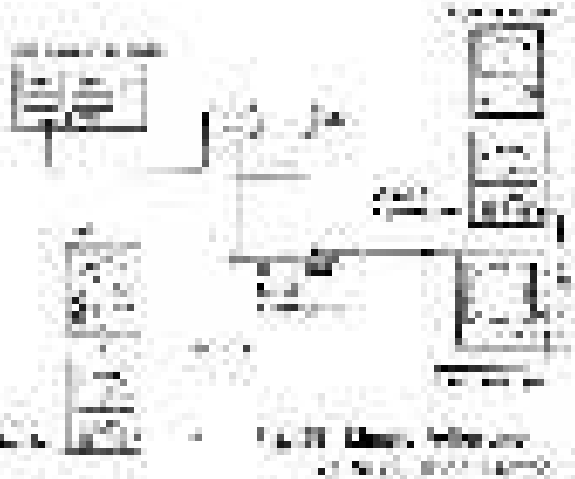
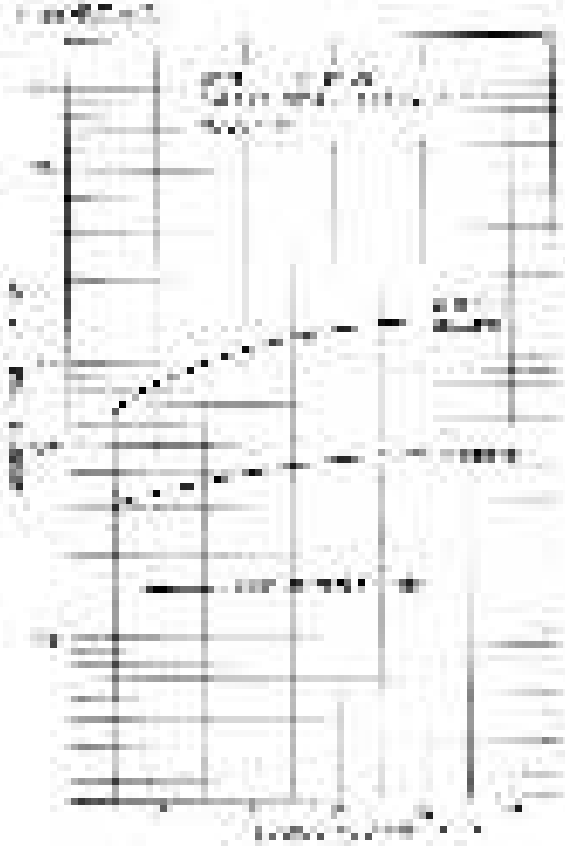






AUSTRIEVISURTÀ

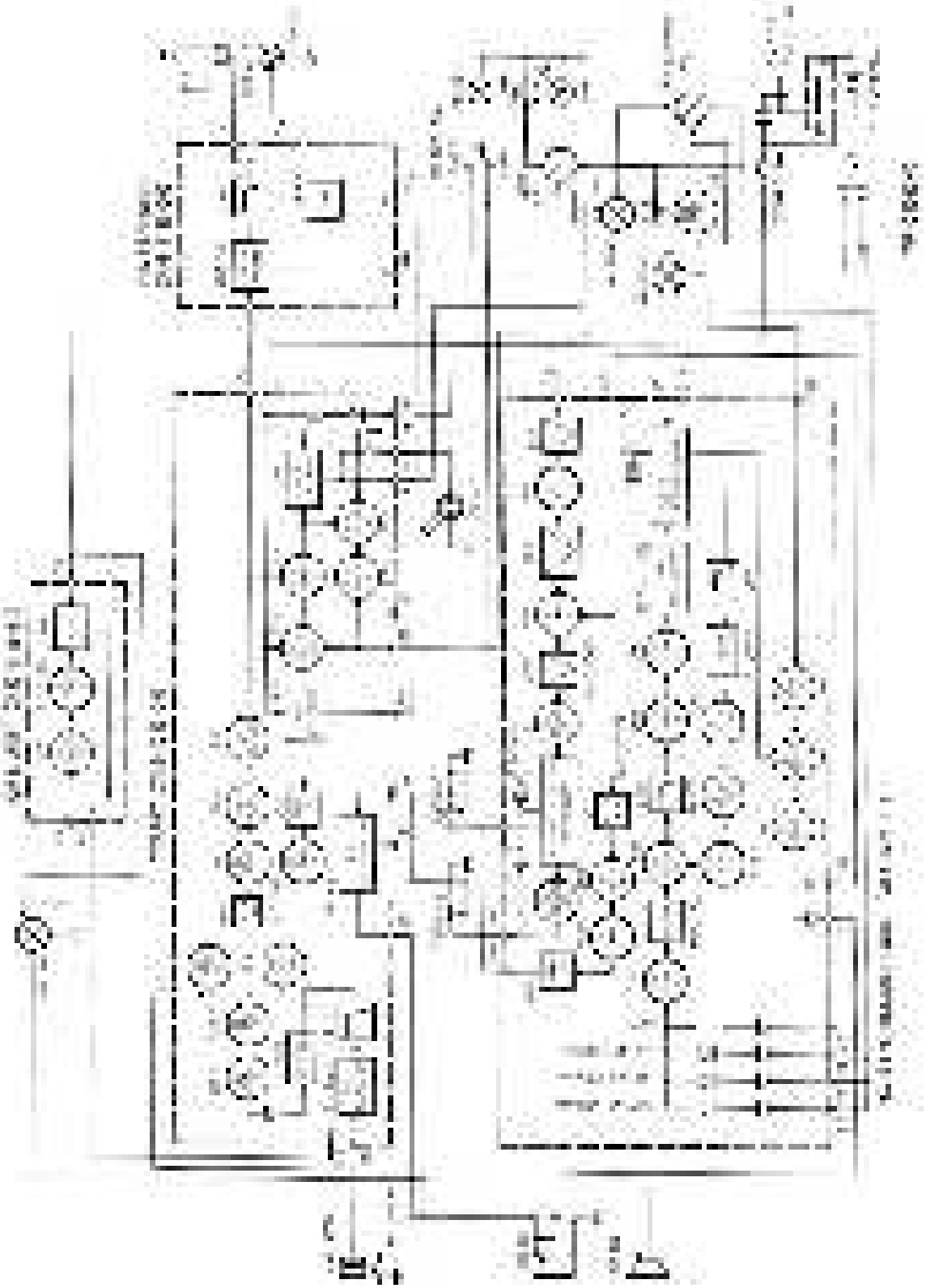




OPTION/ACCESSORY

[illegible]

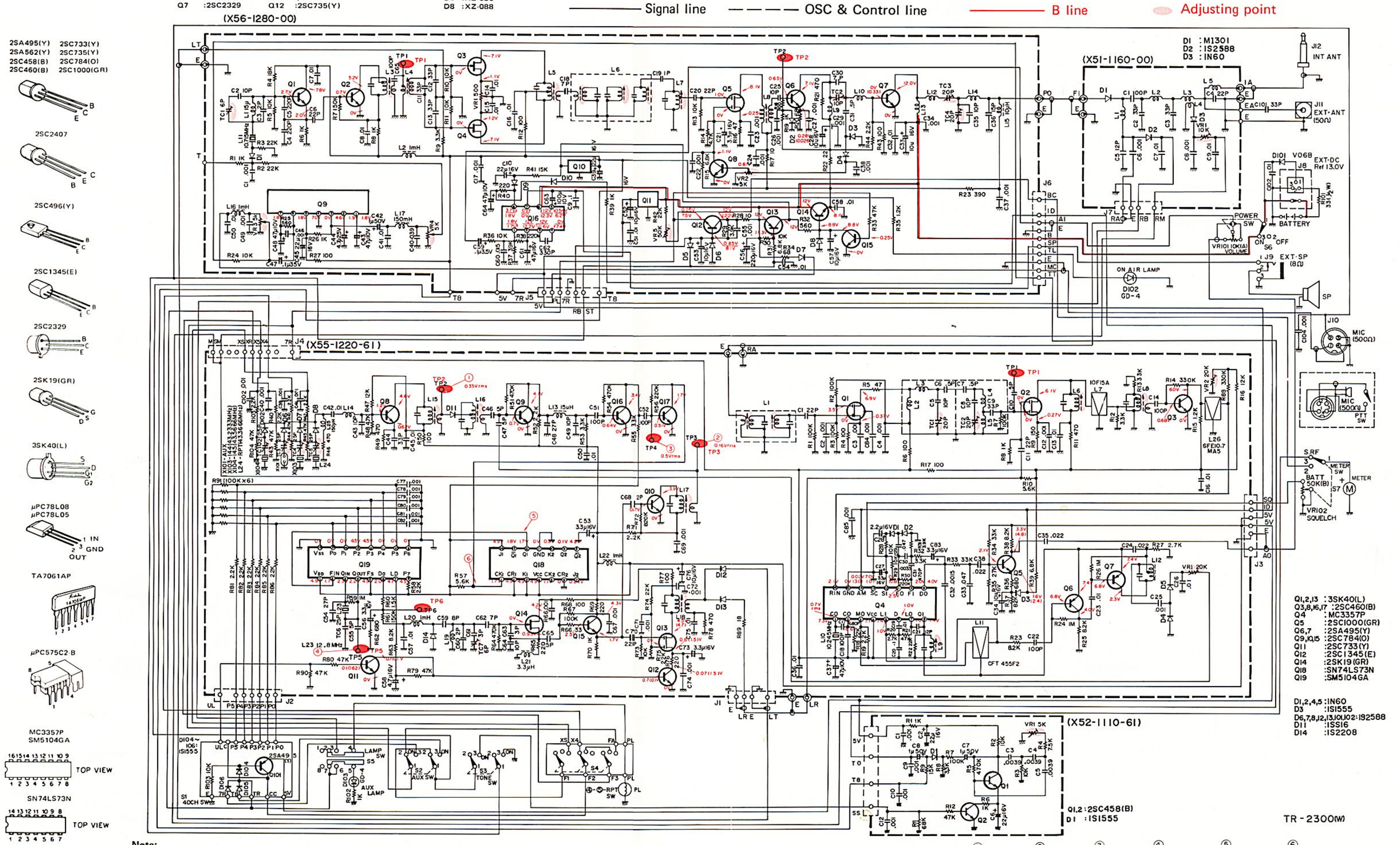
BLOCK DIAGRAM



SCHEMATIC DIAGRAM

Q1,2 :2SC460(B)
Q3,4 :2SK19(GR)
Q5 :3SK40(L)
Q6 :2SC2407
Q7 :2SC2329
Q8,15 :2SC458(B)
Q9 :TA7061AP
Q10 :μPC78L08
Q11 :μPC78L05
Q12 :2SC735(Y)
Q13 :2SA562(Y)
Q14 :2SC496(Y)
Q16 :μPC575C-B
D1 :1S2208
D2,5,7,9,10:1S1555
D3,4:1N60
D6 :XZ-080
D8 :XZ-088

Signal line — OSC & Control line — B line — Adjusting point



Q1,2,13 :3SK40(L)
Q3,8,16,17 :2SC460(B)
Q4 :MC3357P
Q5 :2SC1000(GR)
Q6,7 :2SA495(Y)
Q9,10,15 :2SC784(O)
Q11 :2SC733(Y)
Q12 :2SC1345(E)
Q14 :2SK19(GR)
Q18 :SN74LS73N
Q19 :SM5104GA

D1,2,4,5 :IN60
D3 :1S1555
D6,7,8,12,13,101,102:1S2588
D11 :1SS16
D14 :1S2208

Q1,2 :2SC458(B)
D1 :1S1555

TR-2300(W)

Note:
1. Voltage values with parenthesis of Q6, Q7 (X52-1280-00): Voltage at no driving signal
2. Voltage values with parenthesis of Q4, Q5 (X55-1220-00): Voltage at squelch ON
3. Voltage values with parenthesis of Q11, Q12, Q13 (X55-1220-00): Voltage at unlock operation

SPECIFICATIONS

GENERAL

Dimensions	[illegible]
Weight	[illegible]
Power Consumption	[illegible]
Power Supply Voltage	
Primary	[illegible]
Secondary	[illegible]
Operating Temperature	[illegible]
Storage Temperature	[illegible]
Antenna Connector	[illegible]
Antenna	[illegible]
Antenna Impedance	[illegible]
Frequency	[illegible]
Weight	[illegible]

TRANSMITTER SECTION

Frequency Range	[illegible]
Channel	[illegible]
Channel Spacing	[illegible]
Modulation	[illegible]
Frequency Stability	[illegible]
Spurious Emission	[illegible]
Output Power	[illegible]

RECEIVER SECTION

Receiving Frequency	[illegible]
Channel	[illegible]
Sensitivity	[illegible]
Intermediate Frequency	[illegible]
Image Rejection	[illegible]
Adjacent Channel Selectivity	[illegible]
Spurious Response	[illegible]
Audio Output	[illegible]

[illegible]