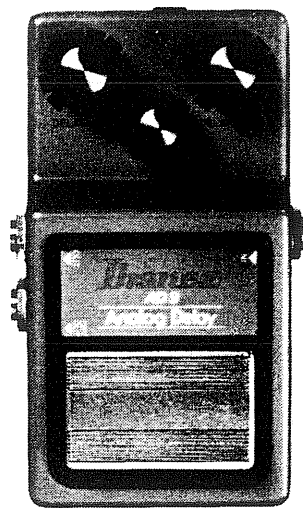


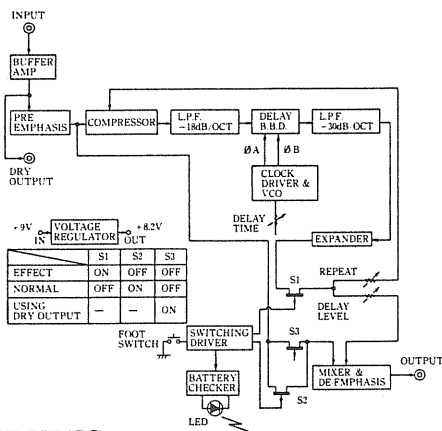
Ibanez AD9

Analog Delay

Service Manual NO. 007



★ BLOCK DIAGRAMS



★ ADJUSTMENT PROCEDURES

CLOCK

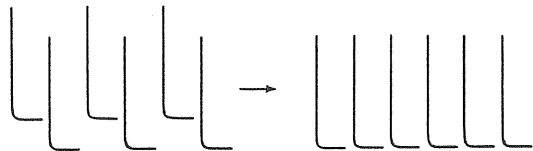
1. Set DELAY TIME control fully CW.
2. Adjust VR101 for a frequency of 6.82KHz at marked CP1.
3. Set DELAY TIME control fully CCW.
4. Check clock frequency for about 80KHz~90KHz.

BIAS

1. Put 0dBm (775mV) 400Hz sinewave into INPUT.
2. Set DELAY LEVEL control fully CW, REPEAT control fully CCW.
3. Connect the DUAL CHANNEL SYNCHROSCOPE to OUTPUT & DRY OUTPUT.
4. Adjust VR102 for a symmetrical clipped wave at OUTPUT.
5. Check wave form for same clipped condition at DELAY TIME control fully CCW & CW.

BALANCE

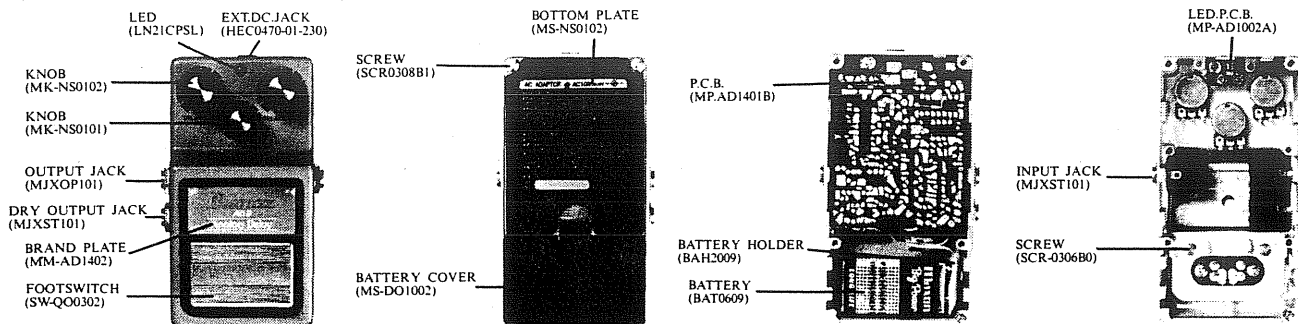
1. Set DELAY TIME control fully CW, REPEAT control fully CCW.
2. Connect the SYNCHROSCOPE to center terminal of VR103 and short INPUT.
3. Adjust VR103 for wave forms as follows.



REPEAT

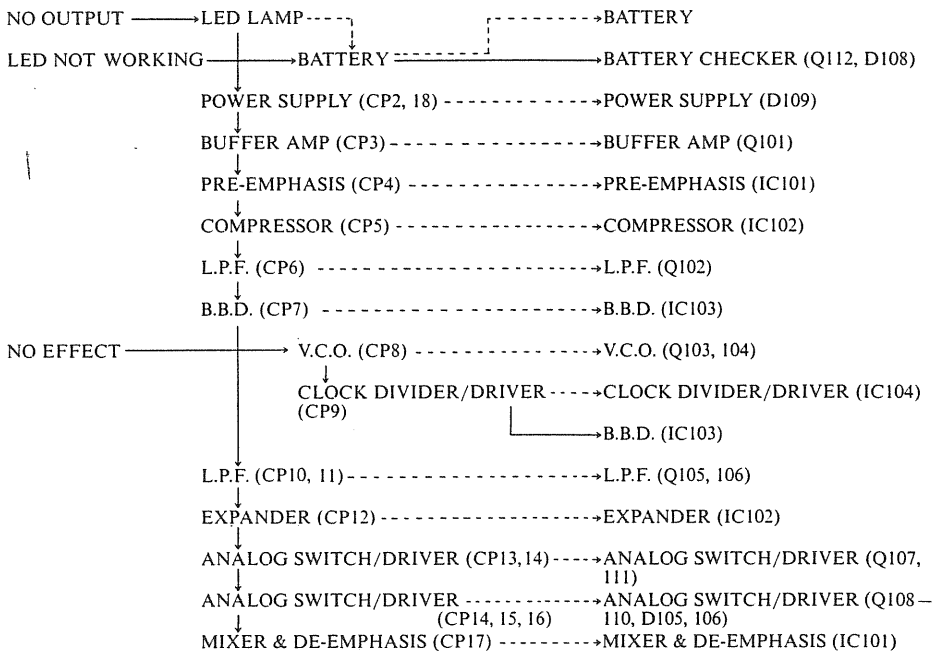
1. Set all controls fully CW. This is hearing check.
2. Put suitable signal into INPUT.
3. Adjust VR105 for a signal to be repeat more than 10 seconds.

★ DISPOSITION OF PARTS



★ TROUBLE SHOOTING

—→OK - - - - -→NG



REMARK: SIGNAL OF CP IS THE WAVE INPUTTING A SINE WAVE SIGNAL TO INPUT.

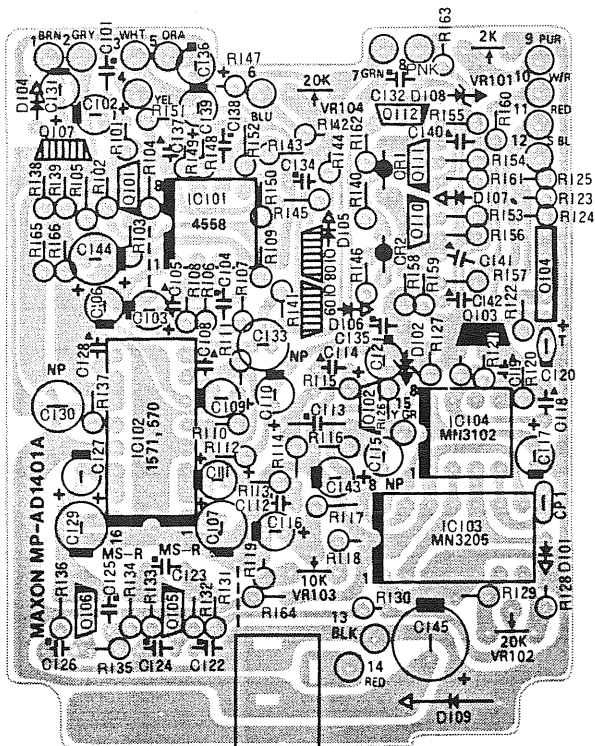
V—VOLTAGE
S—SIGNAL

CP18	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10	CP11, 12, 13	CP14	CP16	CP15, 17	
V	V	S	S	S	S	S	S	S	S	S	V	V	S	
9	4.5										E.ON 8	E.OFF 0.5	E.ON 0.5	E.OFF 8

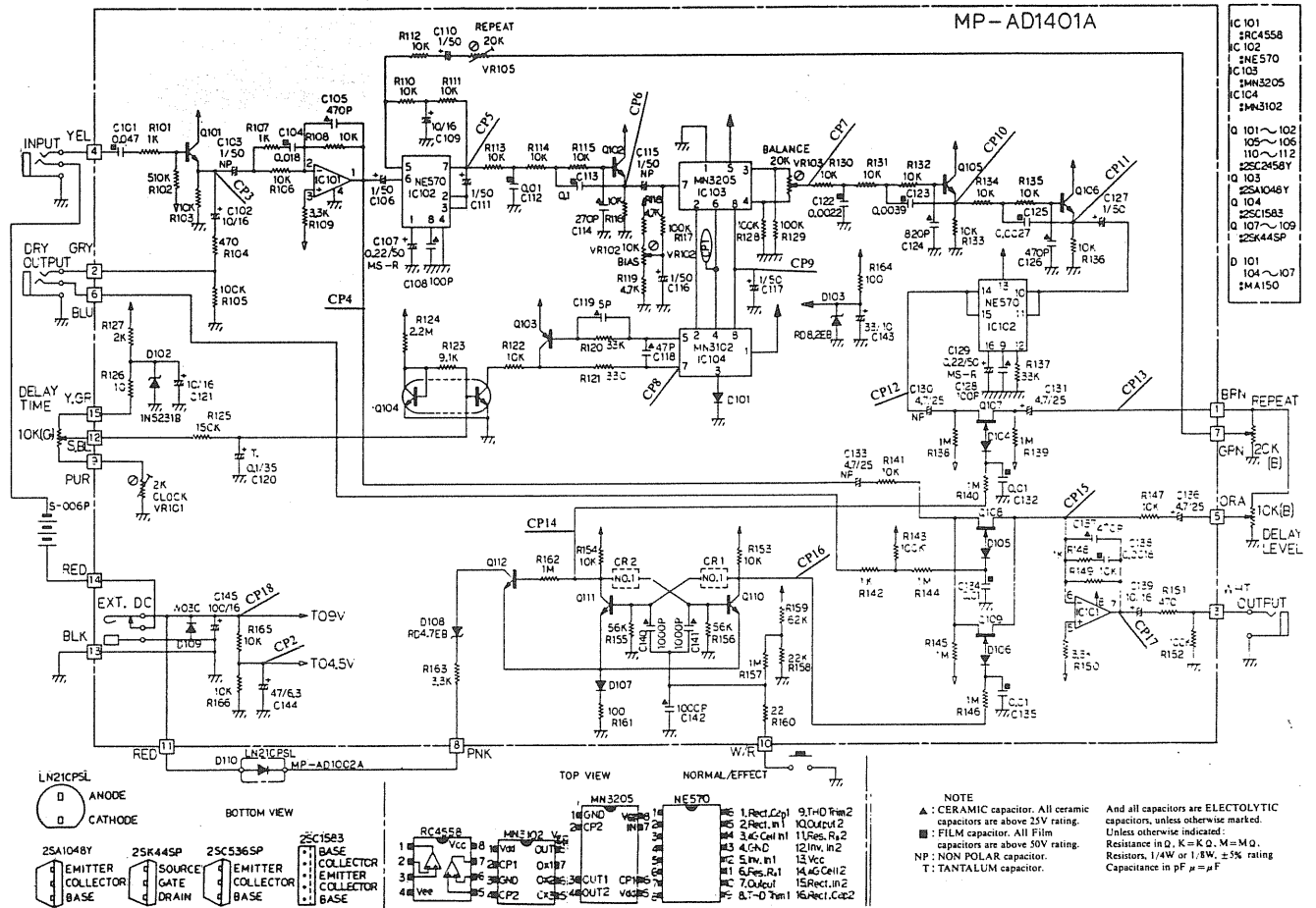
★ P.C.B.

(TOP VIEW)

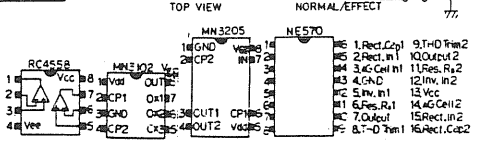
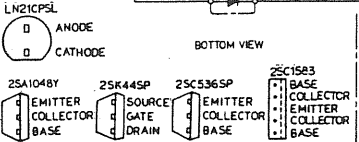
(BOTTOM VIEW)



★ SCHEMATIC DIAGRAMS



IC101	1RC4558
IC102	1NE570
IC103	1MN3205
IC104	1MN3102
Q101	12N5104BY
Q102	125C1583
Q103	125C445P
Q104	125C1583
Q105	125C1583
Q106	125C1583
Q107	125C1583
Q108	125C1583
Q109	125C1583
Q110	125C1583
Q111	125C1583
Q112	125C1583
Q113	125C1583
Q114	125C1583
Q115	125C1583
Q116	125C1583
Q117	125C1583
Q118	125C1583
Q119	125C1583
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Q121	125C1583
Q122	125C1583
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Q146	125C1583
Q147	125C1583
Q148	125C1583
Q149	125C1583
Q150	125C1583



NOTE
 ▲ : CERAMIC capacitor. All ceramic capacitors are above 25V rating.
 ■ : FILM capacitor. All Film capacitors are above 50V rating.
 NP: NON POLAR capacitor.
 T: TANTALUM capacitor.

And all capacitors are ELECTROLYTIC capacitors, unless otherwise marked. Unless otherwise indicated, Resistance in Ω, K=K Ω, M=M Ω, D. Resistors, 1/4W or 1/8W, ±5% rating Capacitance in pF μ=F