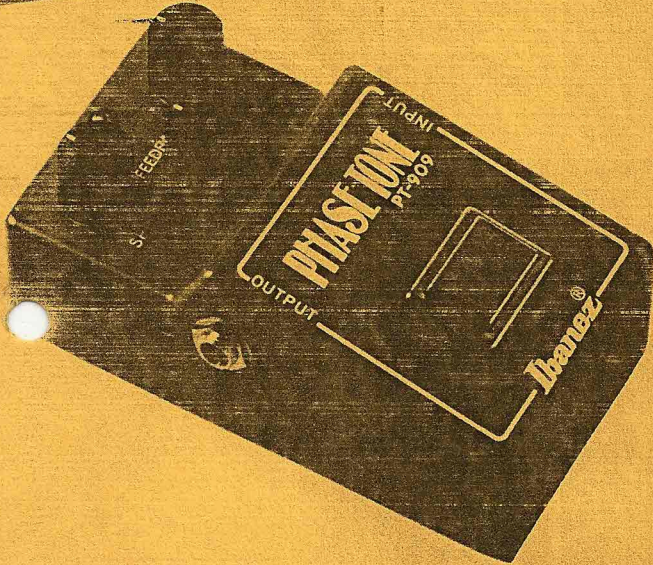
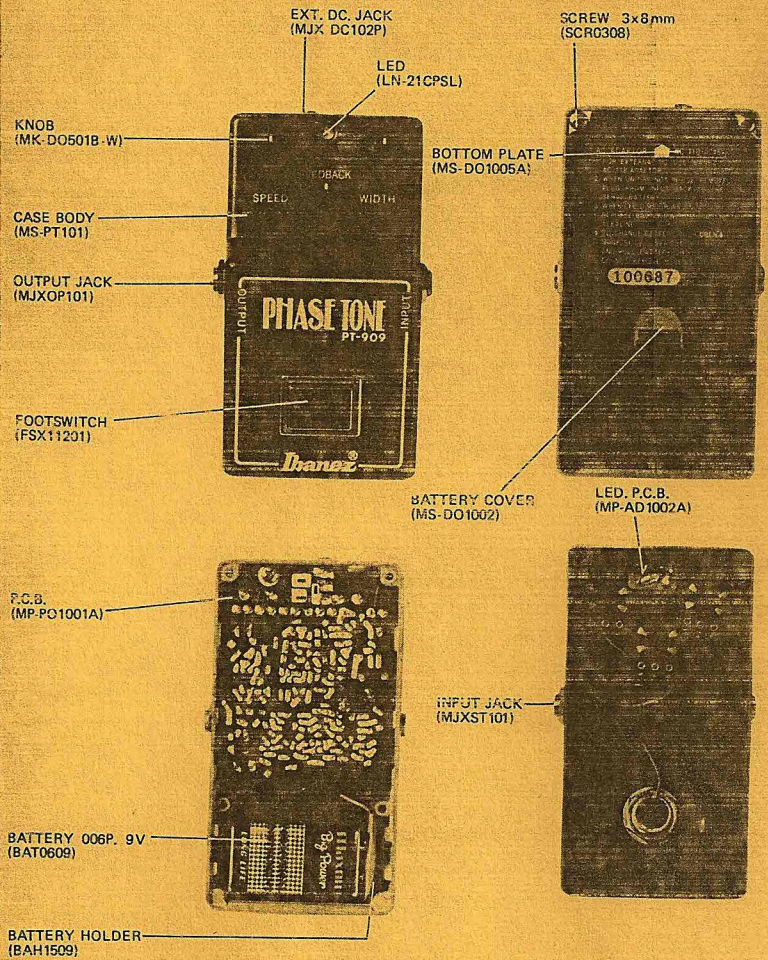


Ibanez SERVICE MANUAL

PT909 PHASE TONE



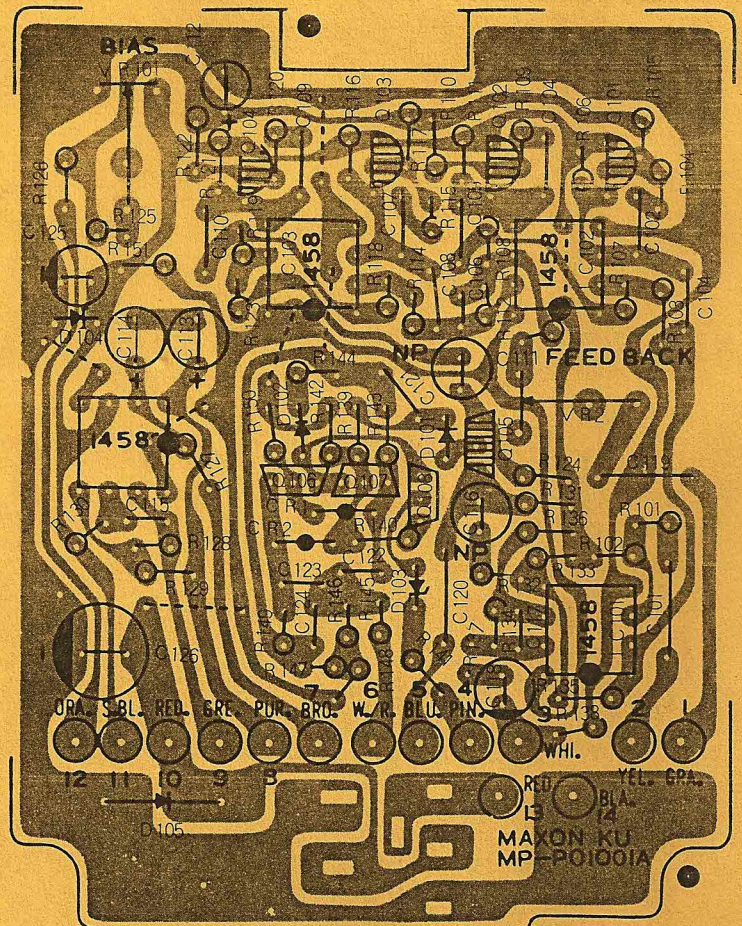
DISPOSITION OF PARTS



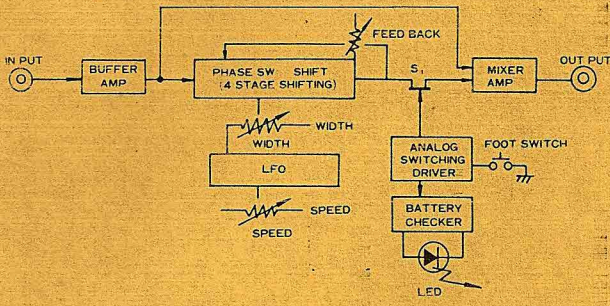
PARTS LIST

PARTS NAME	TYPE	PARTS NO.	REF. NO.
CASE BODY		MS-PT101	
BOTTOM PLATE		MS-DO1005A	
BOTTOM-RUBBER		BR-DO1003A	
BATTERY-COVER		MS-DO1002	
BATTERY-RUBBER		BR-DO1004A	
P.C.B.		MP-PO1001A	
FOOT SWITCH	ELECTRIC	FSX11201	
INPUT JACK	MOLD STEREO	MJXST101	
OUTPUT JACK	MOLD OPEN	MJXOP101	
KNOB		MK-DO501B-W	
BATTERY	006P 9V	BAT0609	
BATTERY HOLDER	200mm	BAH1509	
SCREW	3x8mm	SCR0308	
LED	LN21CPSL	LN21CPSL	
LED P.C.B.		MP-AD1002A	
EXT. DC. JACK		MJX DC 102P	
IC	MC1458	MC1458	IC101 - 104
Tr.	2SC536SPE	2SC536SPE	Q106 - 108
FET	2SK44SP-C ₂	2SK44SP-C ₂	Q105
FET	2SK30A-Y	2SK30A-Y	Q101 - 104
DIODE	IN5231B	IN5231B	D104
DIODE	RD5.6EB	RD5.6EB	D103
DIODE	WO3C	WO3C	D105
DIODE	MA150	MA150	D101, 102
VARIABLE RESISTOR	16 ϕ -10KB	PMXB155R103BSC	
VARIABLE RESISTOR	16 ϕ -100KB	PMXB155R104BSC	
VARIABLE RESISTOR	16 ϕ -500KC	PMXB155R504BSC	
SEMI FIXED RESISTOR	10K3P	RSFST103P3	VR102
SEMI FIXED RESISTOR	100K3P	REFST104P3	VR101

P.C.B.



BLOCK DIAGRAMS



	S ₁
EFFECT	ON
NORMAL	OFF

ADJUSTMENT PROCEDURES

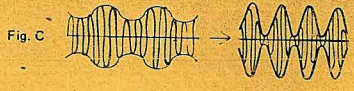
- BIAS**
- Put 100mV 1KHz sinewave into INPUT.
 - Set WIDTH controls fully CW, SPEED controls fully CW and FEEDBACK controls fully CCW.
 - Adjust VR101 to achieve the Lissajous pattern shown in Fig. A.



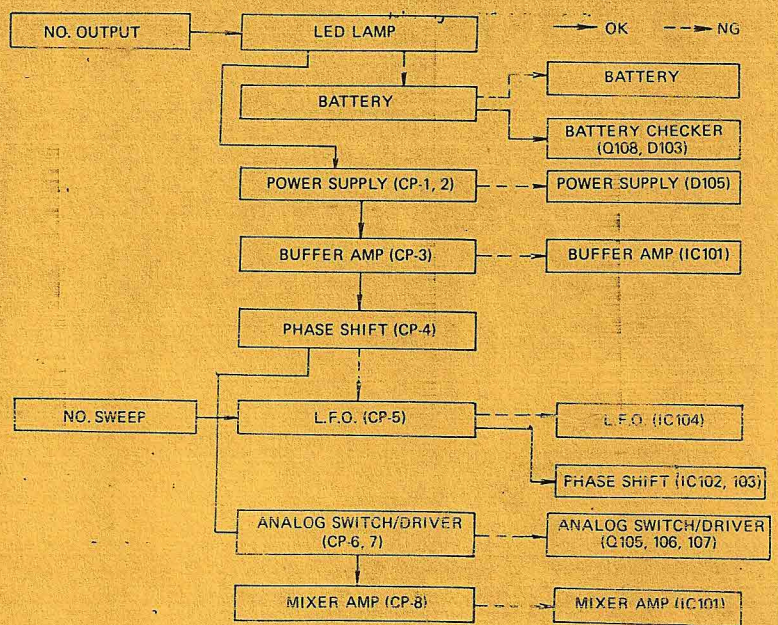
- Set WIDTH controls fully CCW.
- Make sure wave form as shown in Fig. B. If does not fit wave form, please readjust from 2.



- FEEDBACK**
- Put 100mV 1KHz sinewave into INPUT.
 - Set WIDTH, SPEED and FEEDBACK controls fully CW.
 - Adjust VR102 for wave form as shown in Fig. C. at output.



TROUBLE SHOOTING

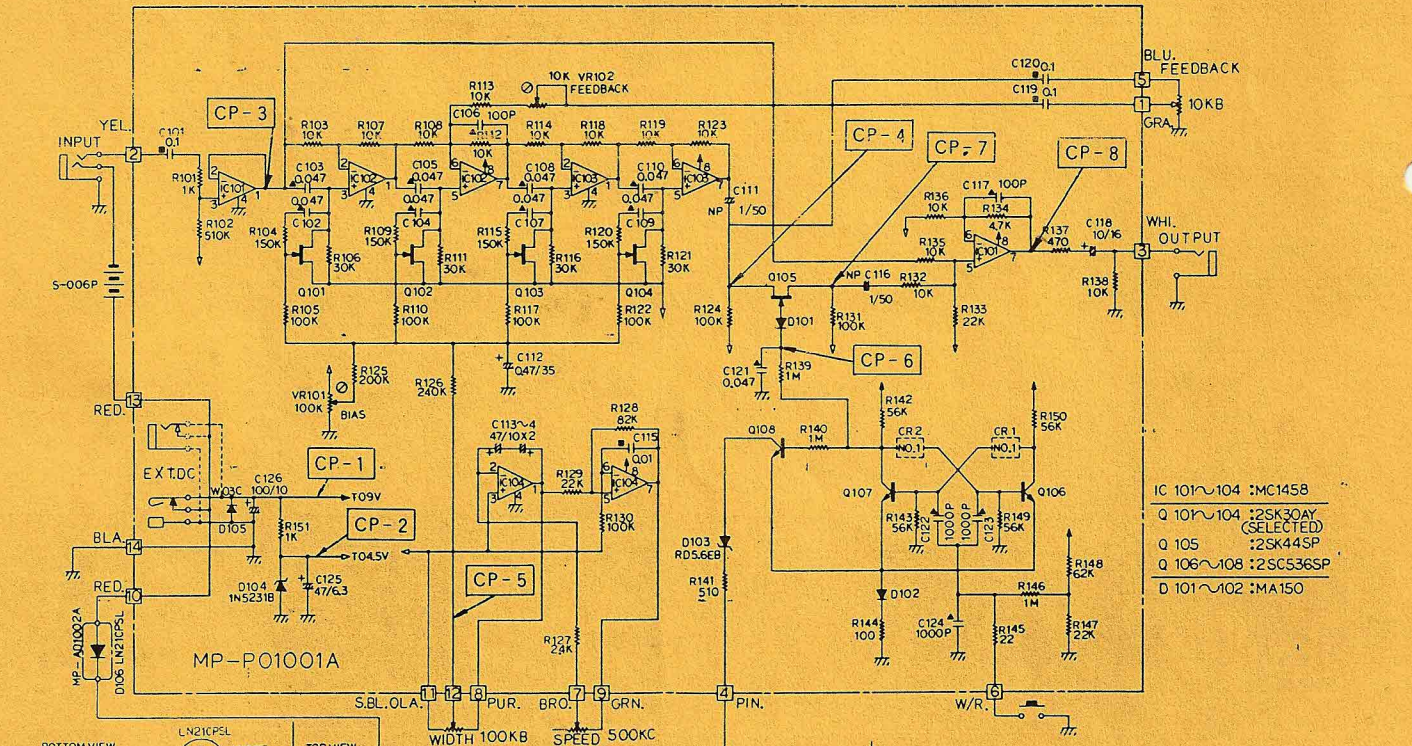


REMARK: SIGNAL OF CP IS THE WAVE INPUTTING A SINE WAVE SIGNAL TO INPUT.

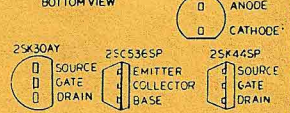
V - VOLTAGE
S - SIGNAL

CP-1	2	3	4	5	6	7	8
V	V	S	S	S	V	S	S
		EF ON	EF OFF				
9	4.5				5.5	0.5	

SCHEMATIC DIAGRAMS



- IC 101~104 : MC1458
- Q 101~104 : 2SK30AY (SELECTED)
- Q 105 : 2SK445P
- Q 106~108 : 2SC5365P
- D 101~102 : MA150



NOTE

- ▲: CERAMIC capacitor. All ceramic capacitors are above 25V rating.
- : MYLAR capacitor. All mylar 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 Resistors, 1/8W, 15% rating Capacitance in pF μ = μF