



**Parts:**

Capacitors are Electrolytics, Ceramics and Tantalums

JFETs wired with d and s swapped

JFETs Q2, Q3, Q4, Q5 sorted and matched by VP

ICs: TI MC1458P, Fch uA1458C

D1 IN5231B, SVI 400mW

Ibanez: DC Jack 3.5mm (1/8") positive tip, nut mounts to case

Maxon: DC Jack 5.5mm/2.2mm negative tip?

Supply Ibanez AC-109 9V 200mA Regulated

\* Speed spec not met with C17=6.8uF.  
C17=10uF gives 120ms to 12.6s

\*\* Low Q6 hFE will stretch falling period of LFO.  
25C1815BL hFE 350 to 700; Try hFE >= 400.

pinouts  
e c b /  
s g d /  
bottom  
view

JFET paint dots indicate Maxon sorting categories in VP steps of 100mV

Dot	Trimmer Position	VP nom	***
Red	10:30	1.5V	
Yellow	11:00	1.6V	
White	11:30	1.7V	
Green	12:00	1.8V	

\*\*\* Estimate. Not measured or verified

**Notes:**

This schematic was put together with the help of forum member DJPsychic.

Schematic applies to Ibanez and Maxon PI-909 with round button footswitch

PCB Marking 909

Ibanez

V1: 1978  
No DC Jack. Flying Fingers.  
Double Lines on side pass over jacks

V2: 1979  
DC Jack on side. Flying Fingers.  
Double lines under jack then stop at jack.  
V3: late 1979 to early 1980  
DC Jack on side. No Flying Fingers.  
No lines on side, just EXT. DC 9V

Maxon

Only change was addition of DC jack on V2.

Published Specs

Input Impedance: 1M

LFO Speed: 0.2s to 14s (see \*)

**Ibanez/Maxon Phase Tone**

**PT-909 Round Switch**

Rob S.

Dwg Rev 1.0

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