Ibanez

SERVICE MANUAL

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**
** MIDI INTERFACE UNIT
** MIU8 (MANUAL No.068)
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***** SPECIFICATIONS *****

1. Input	:	MIDI IN (DIN 5p) & REMOTE (DIN 6p)
2. Output	:	MIDI OUT x8(DIN 5p)
3. Power Requirements	:	DC9V, 170mA
4. Size (WxDxH)	:	189x88x36mm. (7.44x3.46x1.42in.)
5. Weight	:	480grms. (1.1Lbs.)
6. Options	:	AC109 AC Adaptor

***** CHECK POINTS & TROUBLE SHOOTINGS *****

This equipments has no point of adjustment.
Please check for trouble-shoot as follows.

a) Power supply :
1. Minimum required voltage is DC7V at EXT.DC JACK.
   Absolute maximum voltage is DC16V at EXT.DC JACK.
   Normal rating is 9V,170mA.(w/IFC60)
   50mA.(alone)
2. Check 'POWER LED' lights when the power is on.
3. Check the regulated voltage (IC1,uA7805) for 5V.

b) MIDI :
1. REMOTE input has priority over MIDI IN.
2. Check 'TRANSMIT LED' lights when the MIDI signal is transmitted.

c) Caution :
1. Never put the voltage on DIN1(REMOTE)pin6.
   The purpose of this pin6 is only for operation of the IFC60.
   If put the voltage on pin6, IC1(uA7805) will be damaged.
2. MIDI signal input and output must be operated under MIDI(Musical Instrument Digital Interface) standards.

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www.joness.com/gr300/miu8.htm

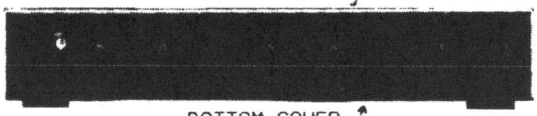
***** PARTS LIST *****

PARTS NAME	TYPE (pcs)	PARTS No.	REF.No.	REMARKS
TOP COVER	(1)	TCV-MIU-0101B	[	]
BOTTOM COVER	(1)	BCV-MIU-0101B	[	]
RUBBER LEG	(4)	RL-DM0101	[	]
P.C.B.	(1)	PCB-MIU-0101A	[	]
IC Reg	(FC) (1)	uA7805	IC1 [	]
IC Photo Cp.	(TO) (1)	TLP552	IC2 [	]
IC Inv.	(TI) (2)	SN74LS05	IC3,4 [	]
TRANSISTOR	(ROH) (1)	2SC2021S	TR1 [	]
DIODE	(TO) (3)	1S1588	D1-3 [	]
DIODE	(HI) (1)	W03C	D4 [	]
DIN CONNECTOR	6P (1)	TCS5364-01-1011	DIN1 [	]
DIN CONNECTOR	5P (9)	TCS5350-01-1011	DIN2-10 [	]
LED	(1)	TLG124A	LED1 [	]
LED	(1)	TLR124	LED2 [	]
LED HOLDER	(2)	SPC-MIU-0101A	[	]
EXT.DC JACK	(1)	HEC0749-01-010	EXT.DC [	]

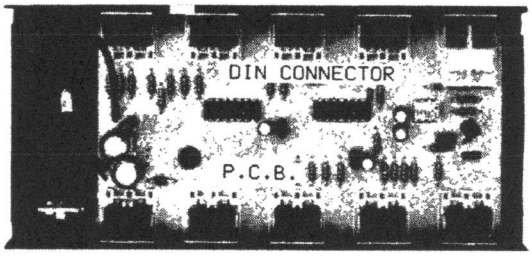
If you need these parts, please write clearly like ex. as follow.
ex. : PARTS MIU8 LED TLR124 1pc

***** DISPOSITION OF PARTS *****

TOP COVER

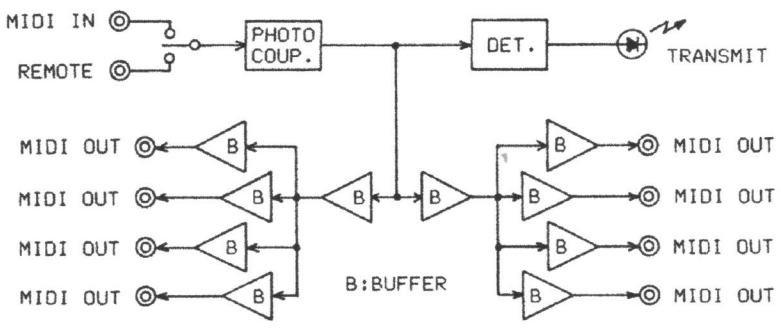


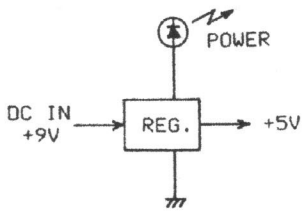
BOTTOM COVER RUBBER LEG



EXT.DC JACK

***** BLOCK DIAGRAM *****





www.joness.com/gr300/miu8.htm

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* P.C.B. *
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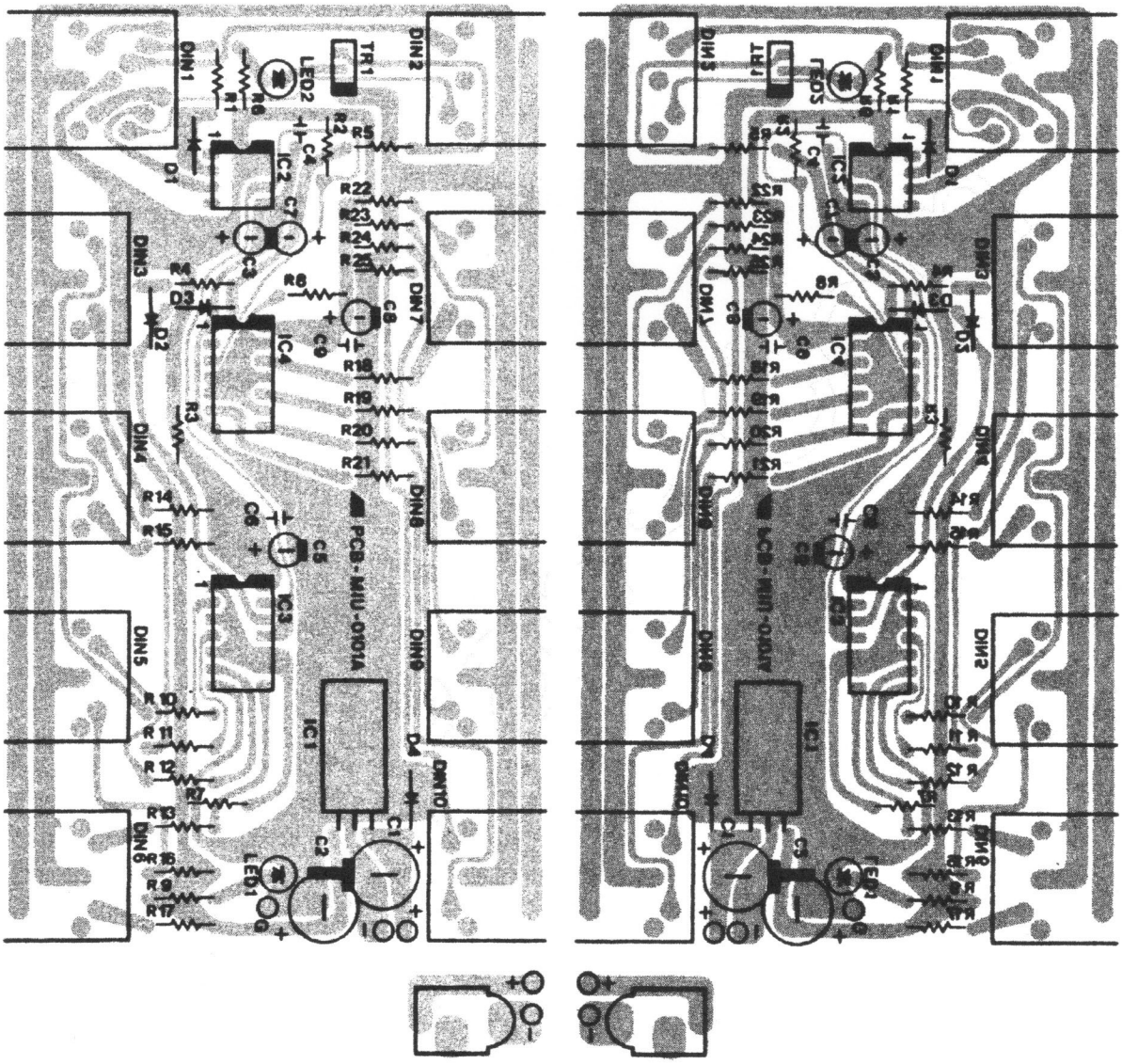
(TOP VIEW) (BOTTOM VIEW)



www.joness.com/gr300/miu8.htm

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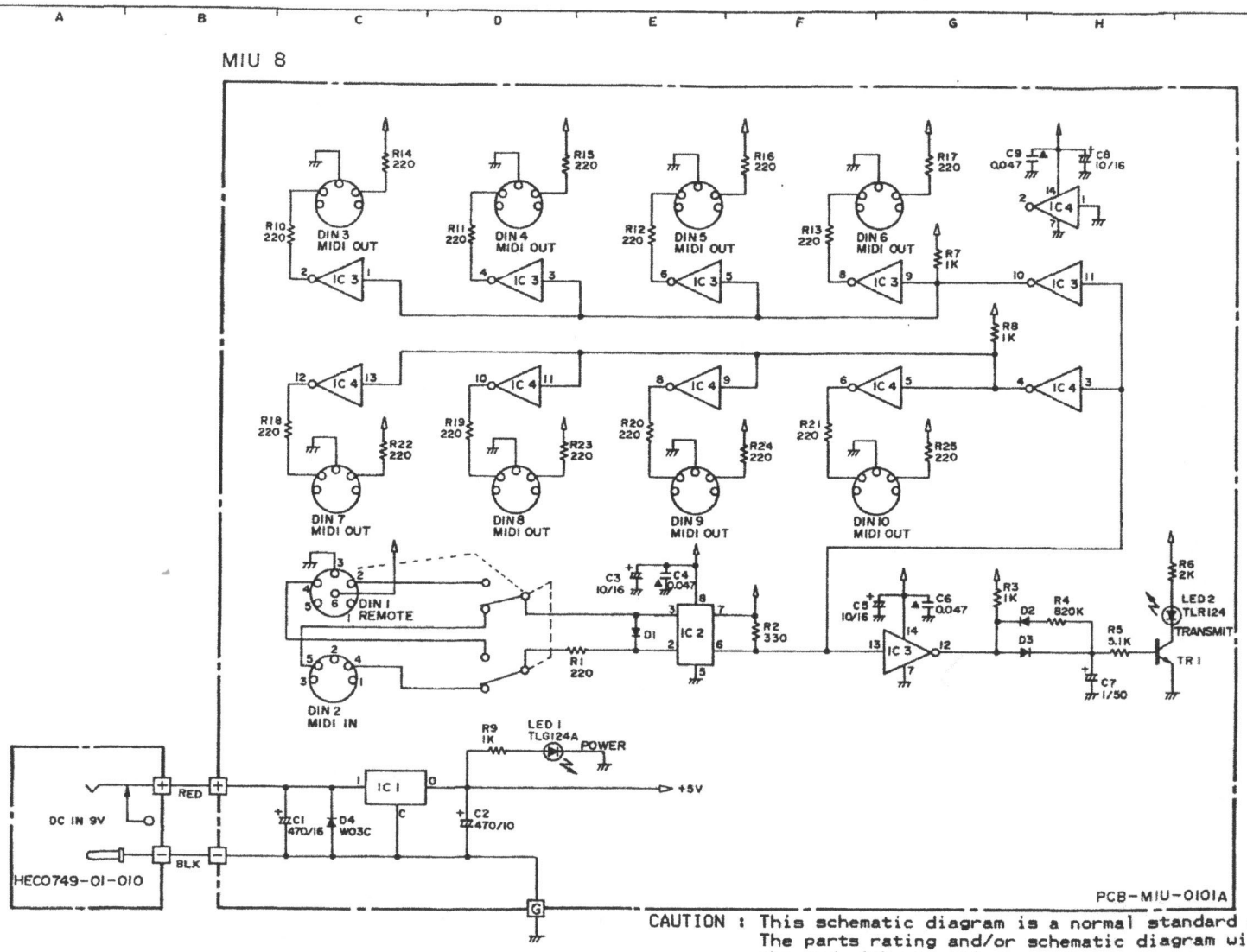
MIU 8



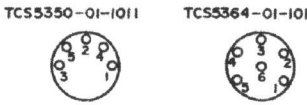
IC 1	: μA7805
IC 2	: TLP552
IC3, 4	: SN74LS05
LED 1	: TLG124A
LED 2	: TLR124
TR 1	: 2SC2021S
D1, 2, 3	: 1S1588
D4	: W03C
DIN 1	: TCS5364-01-1011
DIN 2~10	: TCS5350-01-1011

[NOTES]

▲ CERAMIC capacitor. All ceramic capacitors are above 25V rating.
And all capacitors are ELECTOLYTIC capacitors.
Unless otherwise indicated:
Resistance in Ω, K=KΩ, M=MΩ
Resistors, 1/4W, or 1/8W ±5% rating.
Capacitance in μF, P=PF

CAUTION : This schematic diagram is a normal standard one. The parts rating and/or schematic diagram will be changed without notice.

REAR VIEW



SIDE VIEW

TOP VIEW