

Ibanez

SERVICE MANUAL

INTELLIGENT FOOT CONTROLLER

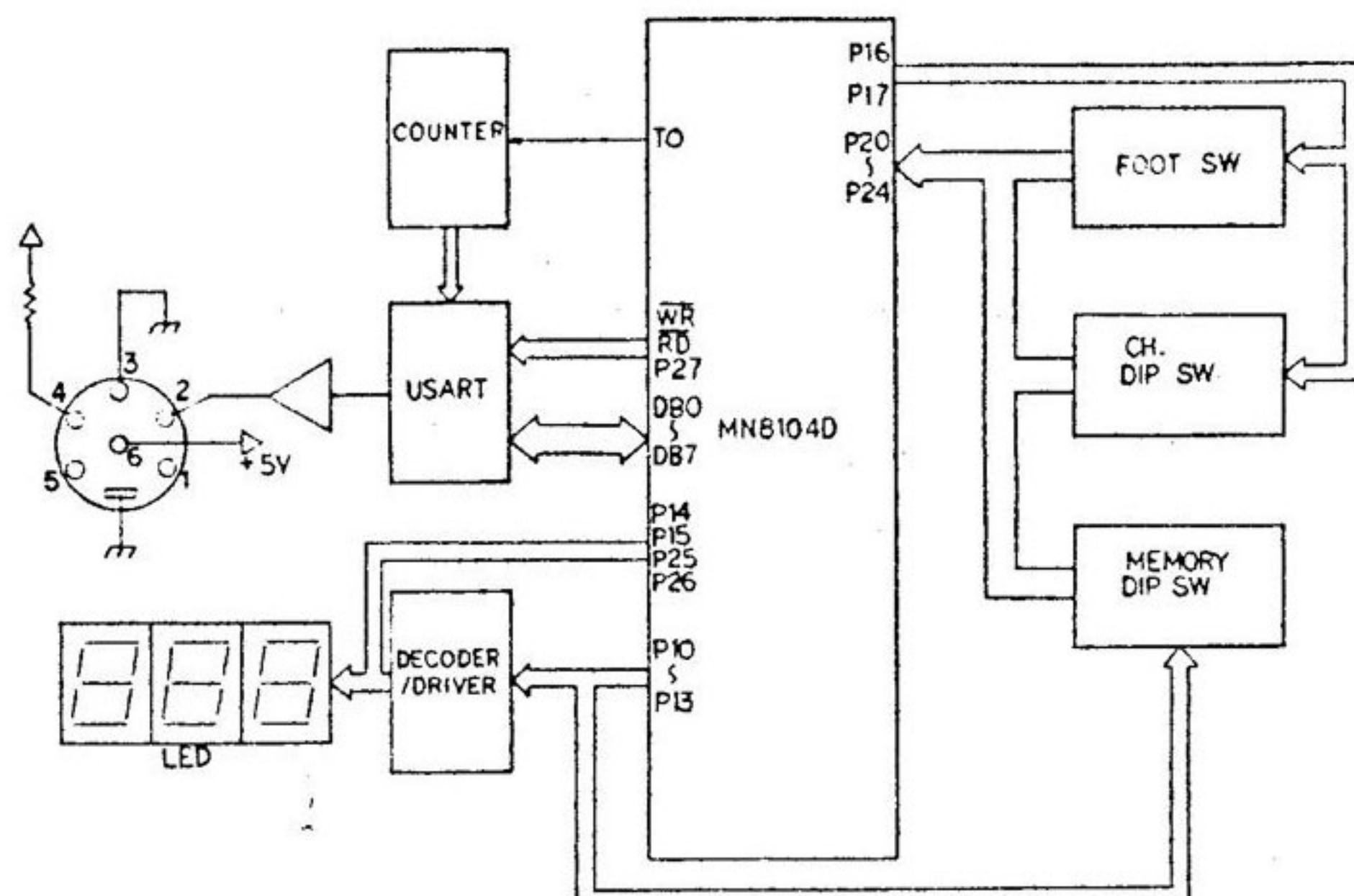
IFC60 (MANUAL No.056)

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SPECIFICATIONS

1. Program Change	: 0 to 127
2. Channel	: 1 to 16
3. Display :Bank	: 0 to 12
:Patch	: 0 to 9
4. Memory Number	: 0 to 127
5. Dimensions (WxDxH)	: 454x112x44mm. (17.9x4.4x1.7in.)
6. Weight	: 1.4Kgrms. (3.1lbs.)
7. Accessories	: Cable 5m 1pc

BLOCK DIAGRAM



 * ADJUSTMENTS & CHECKS *

[ADJUSTMENTS]

This equipment has no point of adjustment.
 Please check as following procedures.
 (Connect IFC60 with EPP400 or DUE400 by attached DIN cable.)

[CHECK LIST]

A. POWER-ON INITIAL DISPLAY

1. Just after power on, MIDI channel number flashes for 3 times.
(normal set display = 01)
2. Continued above, MEMORY number and MEMORY/BANK indicator flash for 3 times. (normal set display = 127)
3. After above, PROGRAM number is displayed.
(normal set display = 00)
Also MEMORY/BANK LED lights.

B. PATCH NUMBER CHANGE

1. Push PROGRAM 0/5 switch for more than 0.8sec., check indicated PATCH number changes '0' to '5'.
2. Push PROGRAM 1/6 switch for more than 0.8sec., check indicated PATCH number changes '1' to '6'.
3. As same procedures, check 2/7, 3/8 and 4/9.
In case of BANK='12' (in 3/8 and 4/9), the display of PATCH is '3' or '4' only.
4. Check display number of MIDI receiver (ex. EPP400, DUE400) for the same display compared with IFC60's one.

C. BANK NUMBER CHANGE

1. Push MEMORY/BANK switch, check MEMORY/BANK LED to light.
2. Push MEMORY/BANK switch continually, check BANK number changes '0' to '1' on and on, '11' to '12', and returns to '0'.
(change interval = 0.8sec.)

 * TROUBLE SHOOTINGS *

[A] CURRENT CONSUMPTION

The current is approx. 170mA on regulated voltage of +5V.

[B] DIP SWITCH (4P) for MIDI CHANNEL

1. To set the mode of MIDI CHANNEL display, pushing PROGRAM 0/5 switch and on the power switch.
2. Check the channel number as following table.

CH. DIP SW.	1	2	3	4	CH.	1	2	3	4	CH.
	OFF	OFF	OFF	OFF	1	OFF	OFF	OFF	ON	9
	ON	OFF	OFF	OFF	2	ON	OFF	OFF	ON	10
	OFF	ON	OFF	OFF	3	OFF	ON	OFF	ON	11
	ON	ON	OFF	OFF	4	ON	ON	OFF	ON	12
	OFF	OFF	ON	OFF	5	OFF	OFF	ON	ON	13
	ON	OFF	ON	OFF	6	ON	OFF	ON	ON	14
	OFF	ON	ON	OFF	7	OFF	ON	ON	ON	15
	ON	ON	ON	OFF	8	ON	ON	ON	ON	16

3. Factory-shipping setting is all 'OFF' of the DIP SW.(1-4).
(i.e. MIDI CH. number is 1.)

[C] DIP SWITCH (8P) for MEMORY NUMBER

1. To set the mode of MEMORY NUMBER display, push PROGRAM 1/6 switch followed above [B].
2. Check the memory number as following table.

MEMO. DIP SW.	1	2	3	4	5	6	7	8	MEMO.No.
	ON	OFF	OFF	OFF	OFF	OFF	OFF	-	1
	OFF	ON	OFF	OFF	OFF	OFF	OFF	-	2
	OFF	OFF	ON	OFF	OFF	OFF	OFF	-	4
	OFF	OFF	OFF	ON	OFF	OFF	OFF	-	8
	OFF	OFF	OFF	OFF	ON	OFF	OFF	-	16
	OFF	OFF	OFF	OFF	OFF	ON	OFF	-	32
	OFF	OFF	OFF	OFF	OFF	OFF	ON	-	64
								(SW.8=no used)	
example 1:	ON	ON	OFF	OFF	OFF	OFF	OFF	-	3
example 2:	ON	ON	ON	ON	ON	ON	ON	-	127

3. Factory-shipping setting is all 'ON' of the DIP SW.(1-8).
(i.e. MEMORY number is 127.)

[D] MIDI SIGNAL TRANSMISSION TEST

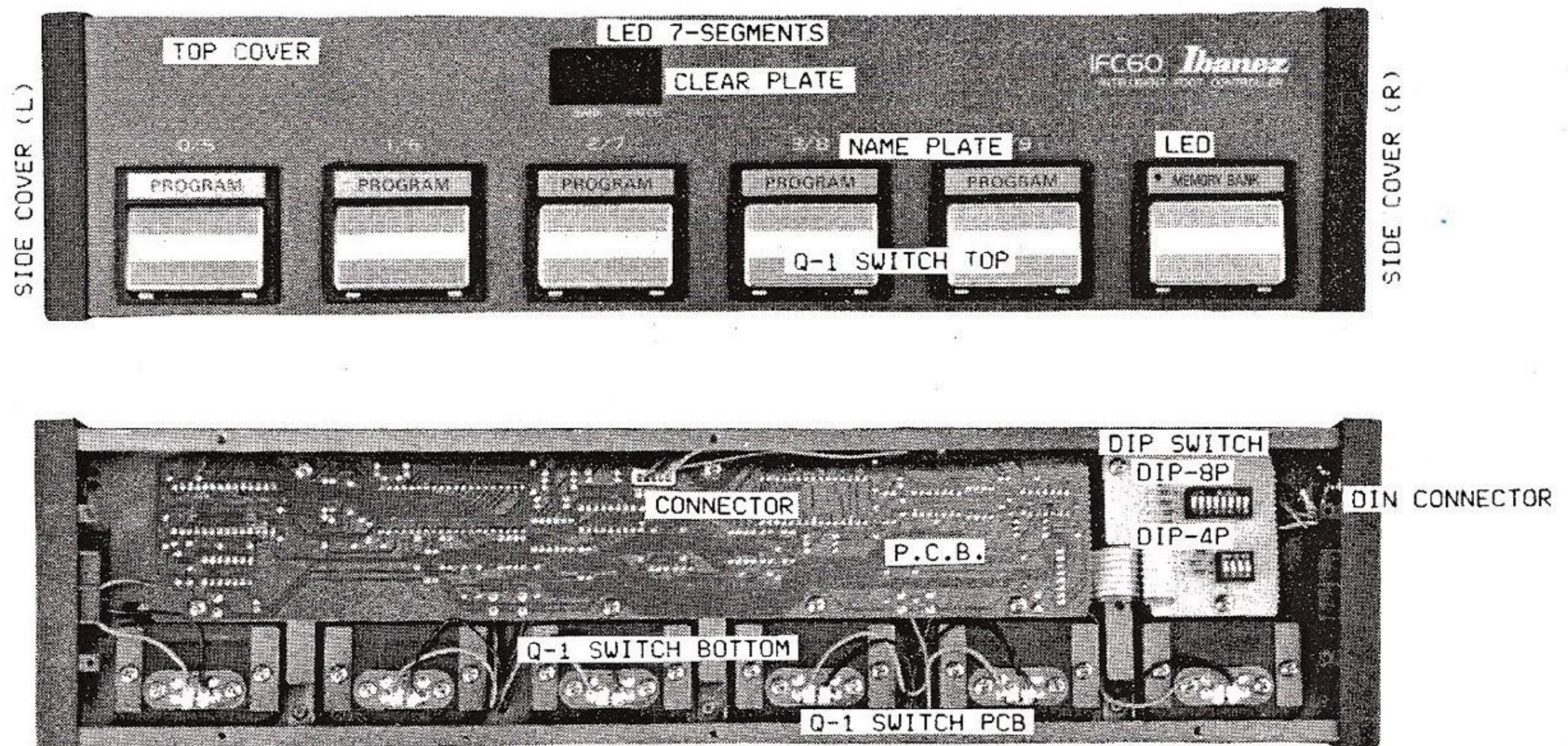
1. Followed above [B] and [C], push PROGRAM 2/7 switch.
2. Check the PROGRAM number increments 0 to 127 of channel 1 to 16.
Also check transmission of the MIDI signal send to MIDI receiver.
(ex. EPP400, DUE400)
Check display and function of the receiver.
3. To terminate the routine, off the power switch.

 * PARTS LIST *

PARTS NAME	TYPE	PARTS No.	REF.No.	REMARKS
TOP COVER		MS-IF0101		[]
BOTTOM COVER		MS-PC0102		[]
SIDE COVER (L)		MS-PC0103		[]
SIDE COVER (R)		MS-PC0104		[]
STOPPER		BR-PC0101	x3	RUBBER []
CLEAR PLATE		MS-IF0102	x1	SCREEN []
Q-1 SWITCH TOP		MS-Q00301	x6	PEDAL []
Q-1 SWITCH BOTTOM		131917150401	x6	ABS PLASTIC []
Q-1 SWITCH SHAFT		MS-Q00303	x6	ROD []
Q-1 SWITCH SPRING (L)		SC-Q00201	x12	for PEDAL []
Q-1 SWITCH SPRING (S)		SC-Q00102	x6	for SWITCH []
Q-1 SWITCH		KHD10901	x6	[]
Q-1 SWITCH PCB		MP-Q00301	x6	[]
CONNECTOR ASSY.(F)		5209-05	x1	290mm []
NAME PLATE		MM-FC0101	x5	PROGRAM []
NAME PLATE		MM-IF0101	x1	MEMORY/BANK []
DIN CONNECTOR		TCS2260-01-1011	x1	[]
CABLE SET		CBL-IFC-0101A	x1	w/DIN PLUG []
P.C.B.UNIT		UPCB-IFC-0101A		[]
P.C.B.only		MP-IF0101		[]
DIP SWITCH	DIP-4P	B-4A	DIPSW1	[]
DIP SWITCH	DIP-8P	B-8A	DIPSW2	[]
IC CPU	(NEC)	uPD8748HD	IC1 or MN8104D	[x1]
IC USART	(NEC)	uPD71051C	IC2	[x1]
IC INV	(TI)	74LS05	IC4	[x1]
IC AND	(TI)	74LS08	IC5	[x1]
IC COUNT	(TI)	74LS393	IC6	[x1]
IC SEG.DRIV (NS)		MN4511B	IC3	[x1]
TRANSISTOR (TO)		2SC2021S	TR1,2	[x2]
DIODE (TO)		1S1588	D1-18	[x18]
CERAMIC RESONATOR (TDK)		ECR6.0M	ECR	[x1]
LED		LN222RP	LED1	[x1]
LED 7-SEGMENTS		LN516RK	SEG1-3	[x3]
CONNECTOR (MO)		5129-05A	CN1	[x1]

If you need these parts, please write clearly like ex. as follow.
 ex. : PARTS IFC60 IC 74LS05 1pc

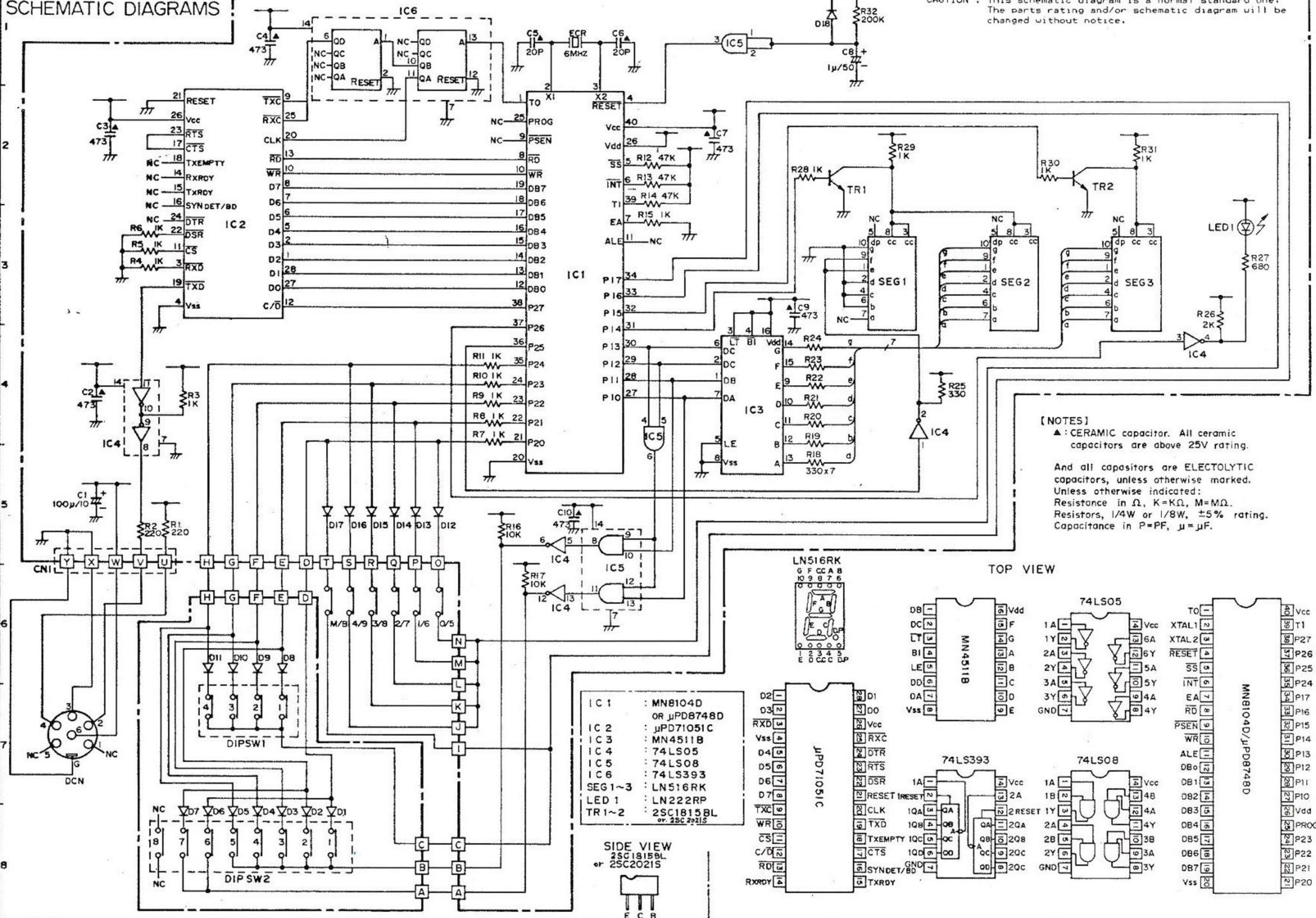
 * DISPOSITION OF PARTS *

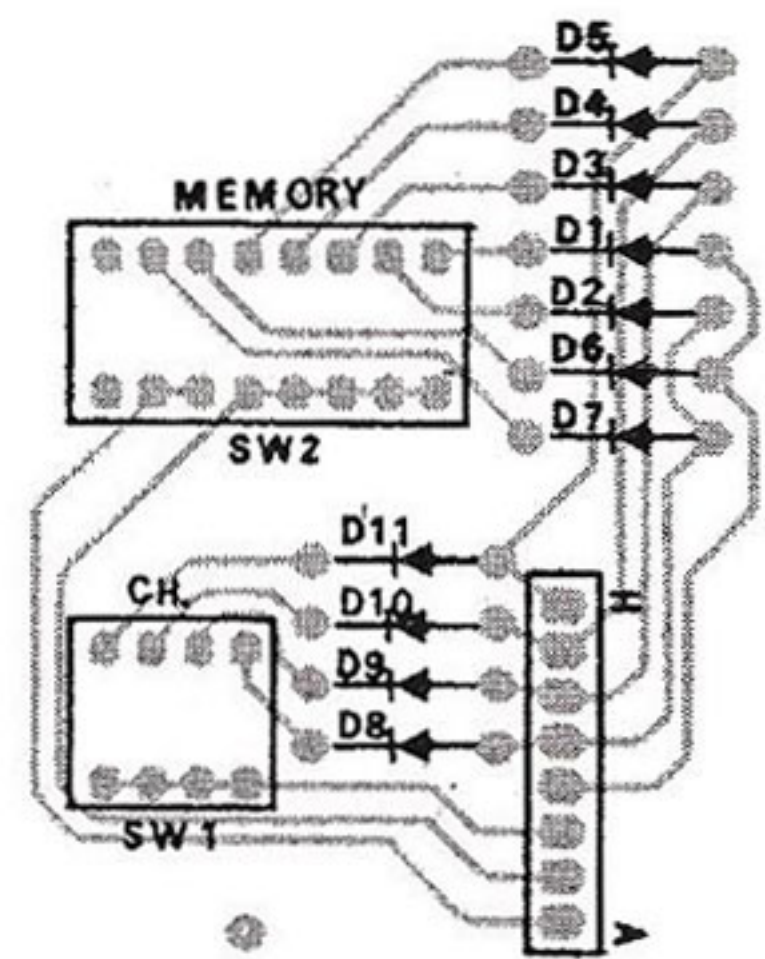
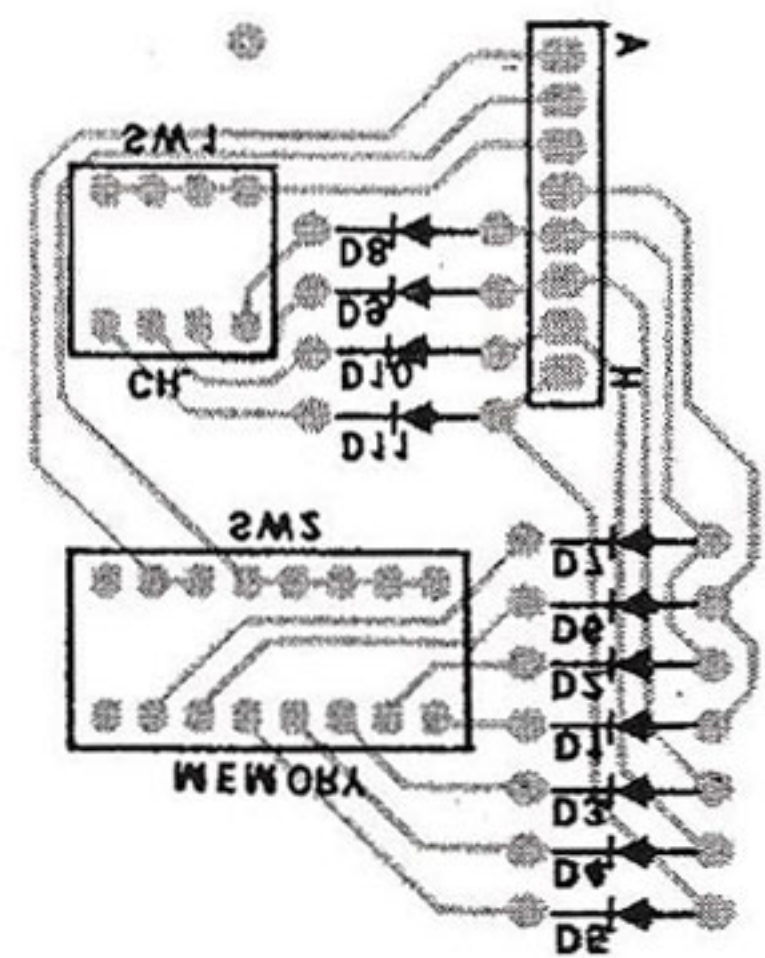


IFC60

SCHEMATIC DIAGRAMS

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





<http://www.joness.com/gr300/IFC60.htm>