

SERVICE MANUAL

FC6

FOOT CONTROLLER

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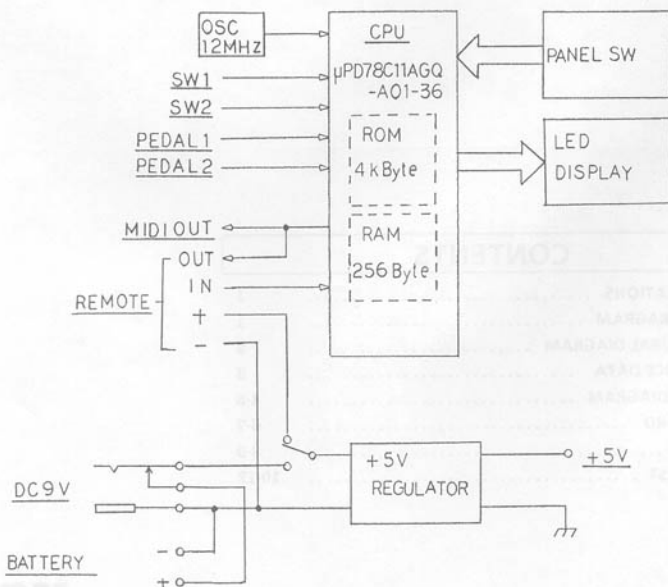
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1. SPECIFICATIONS

Display:	Numeric indicator $\times 3$; A, B, C, D, E, F (2 colors for each), UTILITY
Connecting terminals:	MIDI OUT, REMOTE, DC9 V IN, SW 1/2, PEDAL 1/2
Power:	6 $\times$ 1.5 VC-size batteries, or AC adaptor (Power supply is not necessary when the remote cable is connected.)
Battery life:	Approximately 10 hours (continuous use)
Dimensions (W $\times$ D $\times$ H):	440 mm $\times$ 160 mm $\times$ 43 mm (17-5/16" $\times$ 6-5/16" $\times$ 1-11/16")
Weight:	1.4 kg (3 lbs. 1 oz.) (including batteries)
Included accessories:	6 $\times$ 1.5 VC-size batteries, remote cable RCC-050 (5 m)
Optional accessories:	AC adaptor, remote cable RCC-100 (10 m)

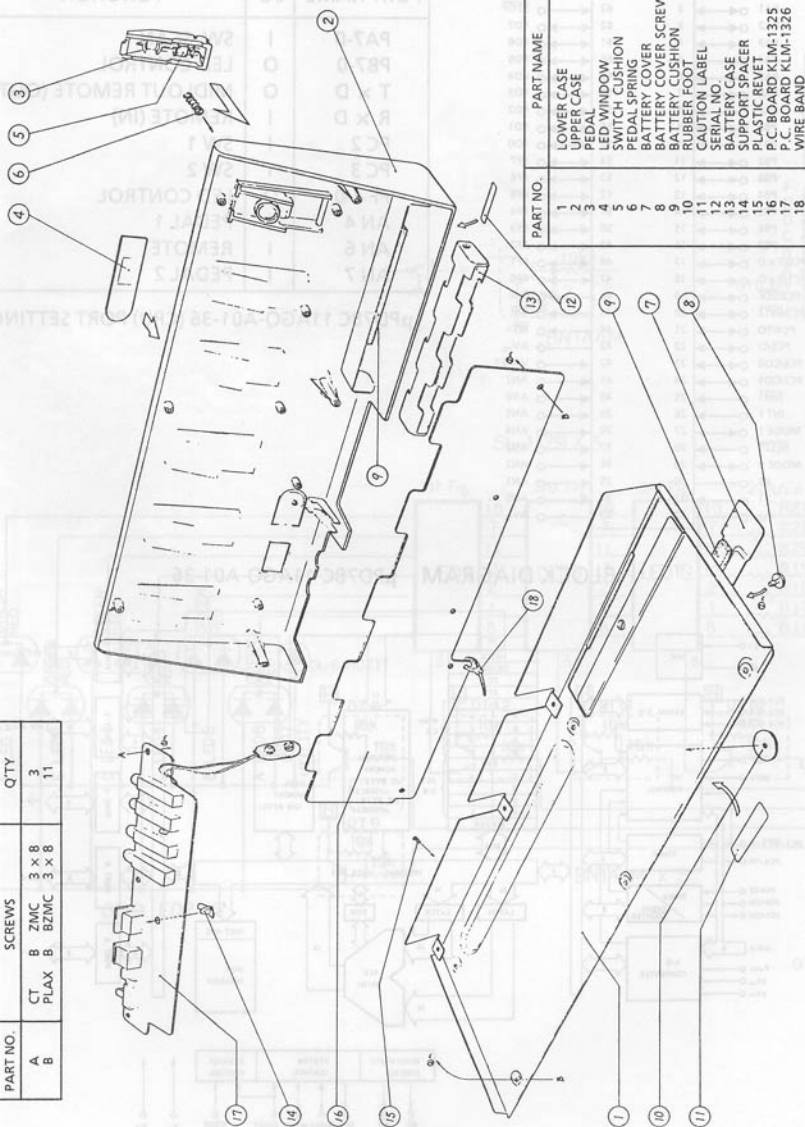
Specifications are subject to change without notice.

2. BLOCK DIAGRAM



3. STRUCTURAL DIAGRAM

PART NO.	CT	B	ZMC	3 x 8	Q.TY
A	PLAX	B	BZMC	3 x 8	3
B					11

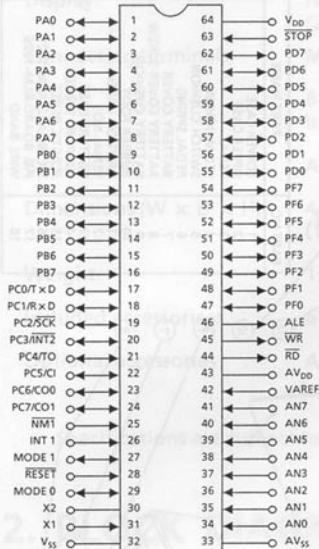


PART NO.	PART NAME	PART CODE
1	LOWER CASE	640097100
2	PIPER CASE	646030300
3	LED WINDOW	630007900
4	SWITCH CUSHION	500013100
5	PEDAL SPRING	644003700
6	BATTERY COVER	6440091000
7	BATTERY COVER SCREW	644002500
8	BATTERY CUSHION	500009200
9	RUBBER FOOT	500013000
10	CUSHION LABEL	580025200
11	SERIAL NO.	540010000
12	BATTERY CASE	540008700
13	SUPPORT SPACER	540011000
14	PLASTIC RIVET	343013250
15	P.C. BOARD KLM-1325	343013250
16	P.C. BOARD KLM-1326	343013250
17	WIRE BAND	540007200
18		

4. REFERENCE DATA

PIN ASSIGNMENT

μPD78C 11AGQ-A01-36

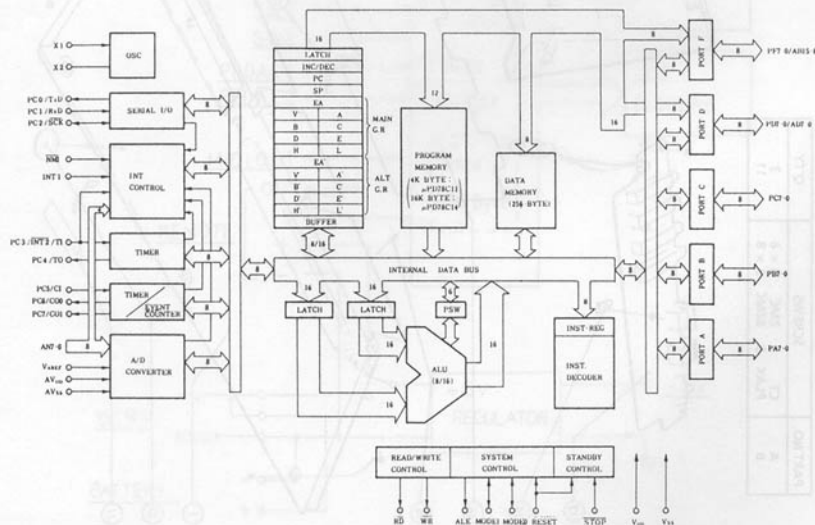


PIN FUNCTION

PORT NAME	I/O	FUNCTION
PA7-0	I	SW. SCAN
PB7-0	O	LED CONTROL
T × D	O	MIDI OUT REMOTE (OUT)
R × D	I	REMOTE (IN)
PC 2	I	SW 1
PC 3	I	SW 2
PF 4-0	O	LED CONTROL
AN 4	I	PEDAL 1
AN 6	I	REMOTE
AN 7	I	PEDAL 2

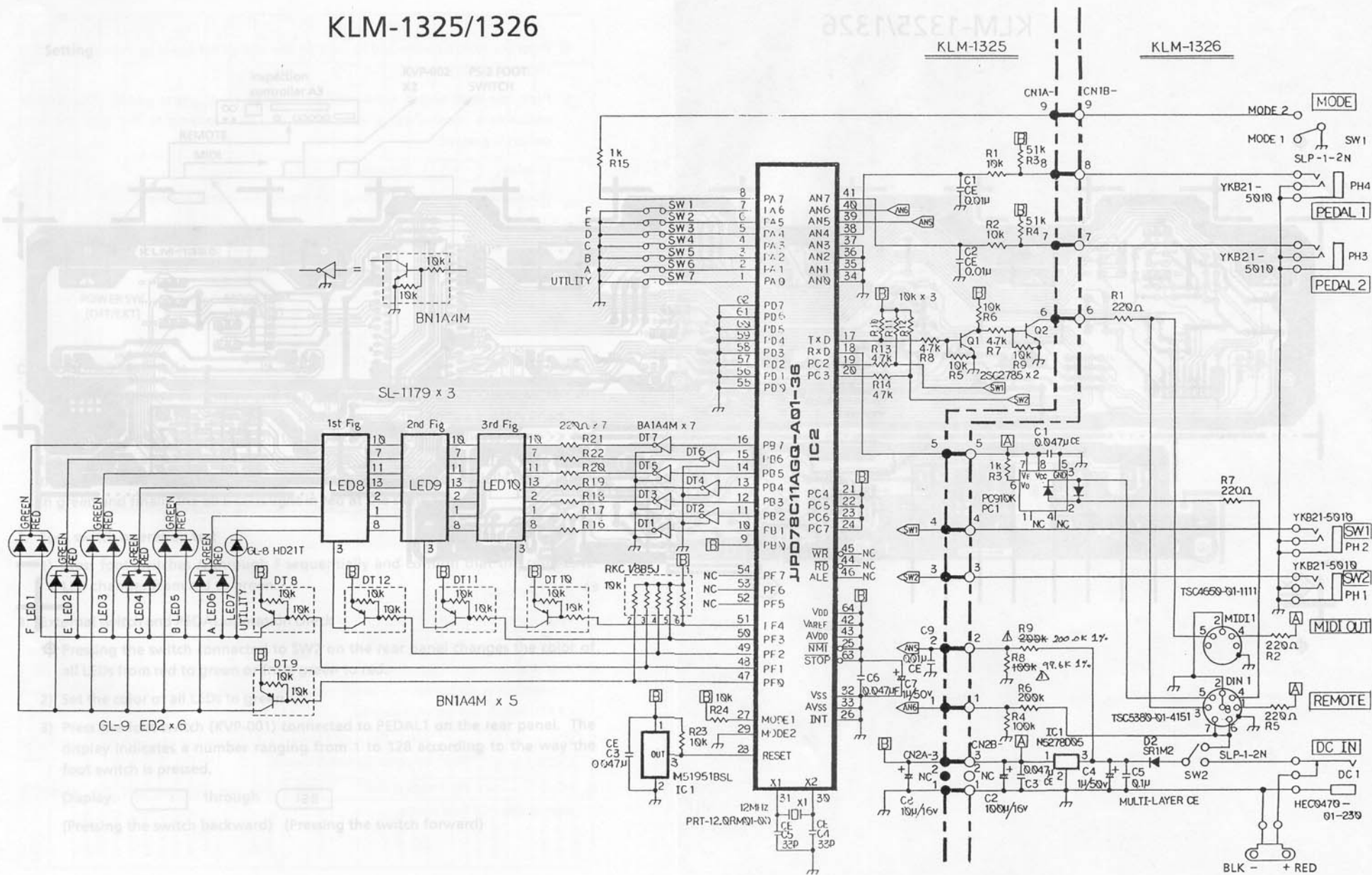
μPD78C 11AGQ-A01-36 (CPU) PORT SETTING

BLOCK DIAGRAM μPD78C 11AGQ-A01-36



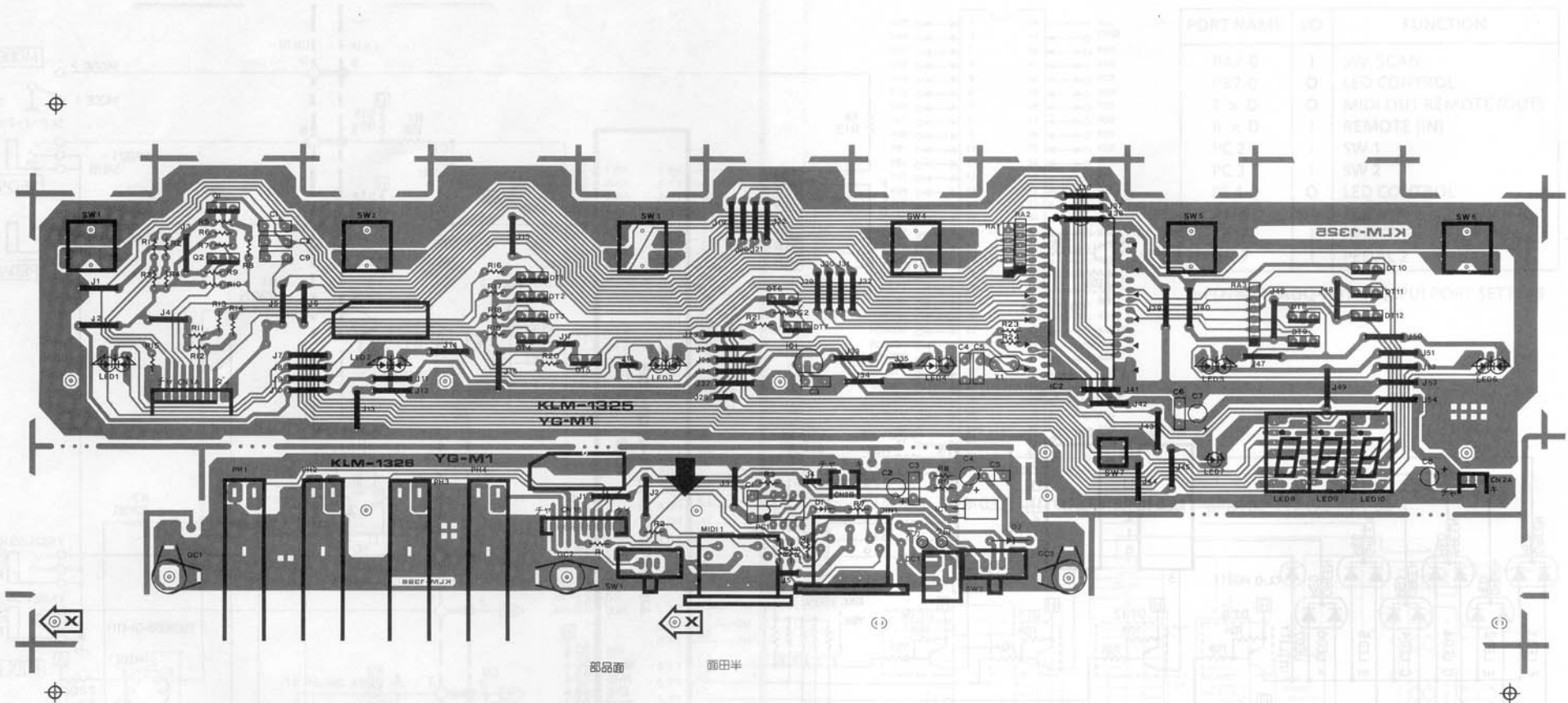
5. CIRCUIT DIAGRAM

KLM-1325/1326



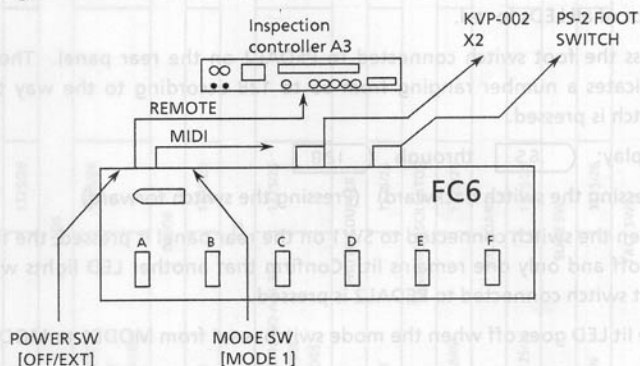
6. P.C. BOARD

KLM-1325/1326



7. CHECKS

Setting



Check with A3 Test mode

1. Connect A3 for the test mode and FC6 with the remote cable. Remove the AC adapter connected to DC IN and the battery connected to the battery snap and then set the power switch from ON to OFF/EXT. The display indicates at the beginning and then indicates from to automatically. Next, the foot switch indicators A through F on the FC6 light sequentially in red, then in green and finally the all 6 LEDs light in red at the same time.
2. Foot switch operation test
 - 1) Press foot switches A through F sequentially and confirm that the respective LED changes from red to green.
3. External switch and PEDAL operation check
 - 1) Pressing the switch connected to SW2 on the rear panel changes the color of all LEDs from red to green or from green to red.
 - 2) Set the color of all LEDs to green.
 - 3) Press the foot switch (KVP-001) connected to PEDAL1 on the rear panel. The display indicates a number ranging from 1 to 128 according to the way the foot switch is pressed.

Display: through

(Pressing the switch backward) (Pressing the switch forward)

- 4) Press the switch connected to SW2 on the rear panel again to change the color of all LEDs to red.
- 5) Press the foot switch connected to PEDAL2 on the rear panel. The display indicates a number ranging from 65 to 128 according to the way the foot switch is pressed.

Display: 65 through 128

(Pressing the switch backward) (Pressing the switch forward)

- 6) When the switch connected to SW1 on the rear panel is pressed, the five LEDs go off and only one remains lit. Confirm that another LED lights when the foot switch connected to PEDAL2 is pressed.
- 7) The lit LED goes off when the mode switch is set from MODE1 to MODE2.

4. UTILITY switch Operation check

- 1) Confirm that an R1 (or R2 according to the previous status) message appears on the LED display upon pressing the UTILITY switch on the side of the display. Also, confirm that the UTILITY LED flashes.
- 2) Return the mode switch on the FC6 rear panel to MODE1.

FC6 Test mode of A3

This is the procedure to set A3 as 'Test Mode' to use the FC6 test.

1. Confirm that the ROM version is VER. 881006 or newer.
2. Press the CHAIN/EFFECT and B switches of the double-action editor, then turn the A3 power on.
3. The PARAMETER INITIALIZE ? YES/NO message appears on the LCD display on the A3 front panel following an undefined message.
4. The A3 controller automatically enters the self-test mode. Since the test connection is disconnected, error messages appear such as MIDI, REMOTE and CARD, which can be disregarded.
5. When the ANLG PANL FC6 — — EXIT message appears on the A3 LCD display, select "FC6" by pressing the C switch.
6. The — FC6 TEST MODE — EXIT message appears and the system is now in the FC6 Test mode.

8. PARTS LIST

PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	QTY
CARBON RESISTORS				
104016000	1/6JTP 0 OHM	1325/26		6
104016322	1/6JTP 220 OHM			11
104016410	1/6JTP 1.0K			2
104016447	1/6JTP 4.7K			2
104016510	1/6JTP 10K			10
104016547	1/6JTP 47K			2
104016551	1/6JTP 51K			2
104016610	1/6JTP 100K			1
104016620	1/6JTP 200K			1
METAL FILM RESISTORS				
124215976	1/4TP 97.6K	1325/26		1
124216200	1/4TP 200K			1
BLOCK RESISTORS				
135050510	RKC1/8BSJ 10K	1325/26		1
CERMIC CAPACITORS				
214052330	50V 33PF TP	1325/26		2
214055100	50V 0.01µF TP			3
214055470	50V 0.047µF TP			4
214076100	50V 0.1µF			1
ELECTROLYTIC CAPACITORS				
254003210	16V 10µF	1325/26		1
254003310	16V 100µF			1
254006110	50V 1µF			2
TRANSISTORS				
304020070	25C27B5	1325/26		2
304020100	BA1A4M-T			7
304020110	BN1A4M-T			5
DIODE				
310002100	SR1M-2	1325/26		1
LEDS				
312008900	GL8HD21T	1325/26		1
312009000	GL9ED2			6
312009100	SL-1179-38H			3
DIODE				
314001300	1SS-133	1325/26		1
ICS				
320001192	UPD78C11AGQ-A01-36	1325/26		1
320011089	M519518SL			1
320011108	M5278D05			1
PHOTO COUPLER				
330001400	PC-910K	1325/26		1
CERAMIC OSCILLATOR				
335002500	PRT-12.0RM	1325/26		1
P.C. BOARD				
343013250	KLM-1325/26	1325/26		1
SLIDE SW				
373006600	SLP-1-2N	1325/26		2
TACT SWS				
375005000	SKHCAA120A	1325/26		6
375007500	SKHHAN			1

PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY
PHONE JACK				
450002300	LGR4502-5000	1325/26		4
JACK				
454000300	HEC-0470-01-230	1325/26		1
DIN JACKS				
454002500	TSC4650-01-1111 5P	1325/26		1
454006600	TSC5380-01-4151 (8P)			1
CONNECTOR TOP				
471070900	898-PH	1325/26		1
CONNECTOR SIDE				
472070300	538-PH			1
HARNESS				
475001227	HNS-1227	1325/26		1
475001228	HNS-1228			1
BATTERY CUSHION				
500009200	8X15X100			2
RUBBER FOOT				
500013000	3X22X3			9
SWITCH CUSHION				
500013100				6
BATTERY				
520001800	SUM30G-2P			6

PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY
WIRE BAND				
540007200	PLT-1M			1
SUPPORT SPACER				
540008700	KGPS-3MS	1325/26		2
BATTERY CASE				
540010000	AH-520			1
PLASTIC REVET				
540011000	P3045			4
BATTERY SNAP				
540014600	300MM 1 TYPE	1325/26		1
LED SPACER				
575013900	L = 4MM	1325/26		6
CAUTION LABEL				
580019400			JP	1
FC LABEL				
580021000			US	1
FTZ LABEL				
580021700			WS	1
LED WINDOW				
630007900				1

PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY
GROUNDING CONTACT				
640084600		1325/26		2
LUG				
640087400	A5			1
BATTERY COVER				
640091000				1
LOWER CASE				
640097100				1
BATTERY COVER SCREW				
644002500				1
PEDAL SPRING				
644003700				6
UPPER CASE				
646030300				1
PEDAL				
646030400				6
SCREWS				
715230308	CT 8 ZMC 3X8			3
745060308	PLAX 8 ZMC 3X8			11

