SDD-12000 SERVICE MANUAL



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1. SPECIFICATIONS

1 Input

INPUT LEVEL IMPEDANCE MAX CLIP LEVEL **INPUT A** - 20dBm 1MΩ (INPUT B when in use) + 16dBm 500k Ω (INPUT B when not in use) + 16dBm **INPUT B** -20dBm 1MΩ + 16dBm FEEDBACK IN A,B - 10dBm **1M**Ω + 16dBm 2 Output **OUTPUT LEVEL** IMPEDANCE MAX CLIP LEVEL + MIX A,B - 10dBm 1kΩ +4dBm -MIX A,B - 10dBm 1kΩ + 4dBm **EFFECT A,B** - 10dBm 1kΩ +4dBm **DIRECT A,B** - 10dBm 1kΩ +4dBm **3** Frequency response DIRECT $20Hz \sim 20kHz \pm 1dB$ EFFECT $30Hz \sim 16kHz + 1dB$, -3dB (when FACTOR $\times 0.25$) **4** Dynamic range EFFECT 92dB and above (IHF A) **5** S/N ratio EFFECT 72dB and above (IHF A) **6** Distortion DIRECT below 0.05% EFFECT below 0.2% **Z** Delay time 0.5ms ~ 1024ms 2, 8, 32, 128, 512, 1024ms (6-position), ×0.25 ~ ×1 (changes in succession) **8** Feedback 0 ~ +110% (positive phase) 0 ~ - 110% (negative phase) **9** Filter (EFFECT sound) **HIGH-CUT** 10kHz 0 ~ - 18dB, changes in succession LOW-CUT 100kHz 0 ~ - 18dB, changes in succession 10 Modulation **MODULATION WAVEFORM** triangle waveform **MODULATION FREQUENCY** 0.05 ~ 8Hz **DELAY TIME MOD. RANGE** 4:1 **11** Signal processing **SAMPLING FREQUENCY** 42kHz (FACTOR = \times 1) ~ 170kHz (FACTOR = \times 0.25) METHOD 12bit quantitized + analog logarithm compression **12 Dimensions** 482 (W) × 44 (H) × 340 (D) mm 13 Weight 4.2 kg **14** Power supply 100V 50/60Hz **15 Power consumption** 11W **16** Supplied accessories AC cord. Rack mounting screws. **17 Optional accessories** pedal switches (PS-1, PS-2), patch cord sets (A, B, C), IU rack case (HC-IU)

2. STRUCTURAL DIAGRAM



PART NO.	SCREWS. NUT	Q'TY
A	FE B BZMC 3×6	3
В	FE B ZMC 3×6	22
С	TP2G B BZMC 3×6	17
D	FE F BZMC 3×8	6
E	FE B BZMC 4×8	3
F	FE BZMC 4×8 W/HEX-HOLE	4
G	FHN ZMC 4	3
н	TWU ZMC 4	1
I	FE B ZMC 2×6	1
J	FE B ZMC 4×6	2

PART NO.	PART NAME	PART CODE		
1	LOWER CASE	64076600		
2	FRONT CHASSIS	64076400		
3	FRONT PANEL	64076300		
4	UPPER CASE	64076500		
5	PHONE JACK PLATE	64076200		
6	FRONT PANEL BOARD	64063700		

7	METAL FITTING OF FRONT PANEL (L)	64063600
8	METAL FITTING OF FRONT PANEL (R)	64063601
9	RUBBER FEET	50007800
10	ROTARY VR KNOB (SMALL)	62015401
11	ROTARY VR KNOB (LARGE)	62015301
12	TACT SW KNOB	62016500
13	P.C. BOARD KLM-6018	34360180
14	P.C. BOARD KLM-6001	34360010
15	P.C. BOARD KLM-6000	34360000
16	P.C. BOARD KLM-6004	34360040
17	P.C. BOARD KLM-6002	34360021
18	P.C. BOARD KLM-6003	34360021
19	HEATSING	56003400
20	SPACER	57504200
21	SHIELDING SHEET	63002800
22	WASHER	79040914
23	PHONE JACK SNAP PLATE	45402400
24	NAME PLATE	68600700
25	SERIAL NUMBER SEAL	

3. BLOCK DIAGRAM





CIRCUIT DIAGRAM

Scan by Manual Manor http://www.markglinsky.com/ManualManor.html

CI

Parts number of B channel 200 ~ 299



KLM-6001 PANEL BOARD

σ

5. P.C. BOARD

7





KLM-6001, 2, 3, 4, 17, 18



6. CIRCUIT DESCRIPTIONS

1. SYSTEM EXPLANATION

The SDD-1200 is a Dual Digital Delay that includes KORG's custom LSI uPD65010CW-133 (Gate Array) and consists of 2 independent systems. Since using two dynamic RAM of 256K bits (4 bits \times 64 words for each unit), there is totally 128K words. It uses 12 bits (3 words) per sampling. That is, if the sampling frequency is 42.66KHz, SDD-1200 provides a maximum delay time of 1024msec.

2. MAIN CIRUIT EXPLANATION

SIGNAL INPUTS

The audio signal input to INPUT A is buffered at FET (F101), and adjusted to the adaquete level by INPUT LEVEL VR (VR1) on the front panel, and then amplified about 4 times as much by OP AMP (1/2 IC101). This signal goes through the MIXER (1/2 IC101) mixing with Feedback Input, and the mixed signal is filtered by the FILTER (fc = 16KHz), consists of transistors (Q101, Q102), then compressed at Compressor Circuit, consists of Compressor (1/2 IC107) and OP AMP (1/2 IC106), and pre-emphasized by CR which consists of C132, R153 and R154.

The output signal from Compressor Circuit goes through the S/H Circuit, which consists fo13700 (1/2 IC111) and FET (F105) and digitalized at the A/D Converting Comparator (IC110). Then it inputs to Gate Array (IC112) as digital data.

Note:

- IC 13700 is a high-speed analog switch controlled by the signal from SH terminal of the Gate Array. The frequency of the signal is the sampling frequency.
- Most part of the circuit to convert S/H signal from analog to digital is in the Gate Array. Only highspeed Comparator (IC110) is in external.

SIGNAL OUTPUT

The effect signal conducted at the Gate Array outputs from D00 - D011 of the Gate Array (IC112) as a 12-bit digital data and converted to analog data by the Block Resistor (RA101), which consists of R-2R, and goes through the S/H Circuit, which consists of 13700 (1/2 IC111) and FET (F106).

Then it goes through LPF (consists of Q103) to eliminate the clock signal used for sampling, then pass through Expander Circuit, which consists of expander (1/2 IC107), and OP AMP (1/2 IC106) to bring the compressed dynamic range back to normal.

This signal is output after passing through the Filter Circuit (Hi-cut, Lo-cut) and Output Mixer Circuit.

CONTROL

Since a normal Rotary VR is used for selecting Delay Time range (2ms, 8ms, 32ms, 128ms, 512ms, 1024ms), the Range Selecting Circuit consists of Compators (IC 109, IC108). See below for details.

GATE ARRAY		DELAY TIME								
TERMINAL	2ms	8ms	32ms	128ms	512ms	1024ms				
D0 D1	L	н	н	Н	Н	Н				
D2 D3	Ł	L	н	Н	Н	Н				
D4 D5	L	L	L	Н	Н	н				
D6 D7	L	L	L	L	Н	н				
D8	L	L	L	L	Н	н				

To prevent noise when unit is turned on or when the delay time is changed, the Gate Array outputs mute signal.

MUTEfor	stopping S/H	"H" is active
MUTBfor	stopping Expa	nder "L"is active

Clock Oscillation Circuit consists of 74HC00 (IC113) and oscillates 32 times faster than the Sampling Frequency. A transistor (Q105) is used as Fixed Current Circuit) to change frequency logarithmically by linear control voltage (signal modulated by Factor + Modulation).

7. CHECK AND ADJUSTMENT PROCEDURE

1. Power Supply Voltage Check

Connect a Digital Volt Meter (DVM) to TPs on KLM-6000 and confirm if the voltage at each test point is within the ranges as shown below.

Supply	Test Points	Voltage (V)
+15v	TP-1 (D302)	+14.75 ~ +15.75
— 15v	TP-2 (D301)	- 14.75 ~ - 15.75
+5v	TP-3A (D112)	+4.75 ~ +5.25
+5V	TP-3B (D212)	+4.75 ~ +5.25

2. Modulation Check

The settings are as follows. Mode Sw. = separate

LEVEL	D. TIME	FACTOR	FEEDBACK	FILTER
0	2ms	Adj.	0	0
INTEN.	FREQ.	DIRECT	EFFECT	SAMPLING
Adj.	Adj.	0	0	Off

1) Modulation

Connect an Oscilloscope (DC 2v/div, 50ms/div) to TP-6A and TP-6B on KLM-6001 and confirm modulation waveform refering to the chart below.

TEST POINTS	SYN'TIME	FACTOR	INTEN	FREQ	WAVEFORM
TP6A (R21)	0.5ms'/div	×0.25~×1	0	0	Fig. 1
	50ms'/div	× 0.25	0~10	10	Fig. 2
	50ms'/div	× 0.25	10	0~10	Fig. 3
TP6B R23)	0.5ms'/div	×0.25~×1	0	0	Fig. 1
	50ms'/div	× 0.25	0~10	10	Fig. 2
	50ms'/div	× 0.25	10	0~10	Fig. 3

Fig. 1 (DC Changes)

				×1	
 	 			×0	.25

Fig	. 2		(Amplitude changes)						
		\cap		\sum		\square	Ĺ	Ϊ	\backslash



- 2) Modulation LED lighting Adjust the FREQ volume of UNIT A and B to "5", and check each LED by following procedure below.
- ① Mode Sw.: IN PHASE Add modulation on both channels and confirm if both are syncronized in same phase.
- ② Mode Sw.: SEPARATE Confirm if the modulation on each unit is controlled independently.
- ③ Mode Sw.: OUT PHASE Add modulation on both channels and confirm if both are syncronized in inverted phase.

3. Muting Effect Check

1) Power On Mute

Confirm if POWER LED, BYPASS LED A and B are lit 3.5 seconds (\pm 1 second) later when the unit is turnd on.

2) Muting Effect at delay time change

LEVEL	TIME	FACTOR	FEEDBACK	FILTER
10	Adj.	X1	0	0
INTEN.	FREQ.	DIRECT	EFFECT	SAMPLING
0	0	0	10	Off

Set as above and supply 1KHz, -24dBm, sine wave for Standard Signal Generator (SG) to SDD-1200, and observe MIX OUTPUT with an Oscilloscope (DC 0.5v/div, 5ms/div). to confirm if Mute effects on sounds/waveform (fig. 4) when delay time is changed.



4. S/N Check

Set as above and connect a Noise Meter (1HF-A filter, -80dBm) to MIX OUTPUT. And check S/N referring to the chart below.

LEVEL	TIME	FACTOR	FEEDBACK	FILTER
10	2ms	× 0.25	0	0
INTEN.	FREQ.	DIRECT	EFFECT	SAMPLING
0	0	0	10	Off

	DIRECT VR	EFFECT VR	S/N
A ch EFFECT	0	10	- 88dBm or Less
A ch DIRECT	10	0	- 88dBm or Less
B ch EFFECT	0	10	- 88dBm or Less
B ch DIRECT	10	0	- 88dBm or Less

5. Clock Check and Adjustment_

Set as above, then:

- 1) Set FACTOR A to $\times 0.25$
- 2) Connect a FREQUENCY COUNTER to TP-4A on KLM-6000 and confirm if the value is 170.64KHz±8KHz.
- 3) Adjust VR105 if necessary.
- 4) Set FACTOR A to $\times 1$ and confirm if the value is 42.66KHz ± 2 KHz.
- 5) Adjust VR104 if necessary.
- 6) Change FACTOR A from $\times 0.25$ to $\times 1$ to confirm if the value are in the range specified as above. Repeat 2) - 4) till you get correct value.
- 7) Do the same adjustment for UNIT B usnig VR204 and VR205.

Note:										
Above v	/alues	are	for	unde	er 2	0°C.	In	case	ə of	0°
-40°C, :	±10%	devi	iatio	on is a	allov	vable).			

6. Analog Compressor/Expnder Check and Adjustment

Set as above, then:

- Input a Tone Burst wave (400Hz, -40dBm, sine waveform) to SDD-1200 UNIT A and confirm waveform (fig. 5) with an Oscilloscope (DC 0.5v/div, 10ms/div) connecting to MIX OUTPUT.
- Confirm if the DC fluctuation of *3 shown in Fig. 5 is minimized. Adjust VR102 on KLM-6000 if necessary.
- Confirm if the linearity of *2 shown in fig. 5 is almost linear. Adjust VR103 on KLM-6000 if necessary.

*4
$\frac{1}{20\text{ms}}$

LEVEL	TIME	FACTOR	FEEDBACK	FILTER
0	2ms	Adj.	0	0
INTEN.	FREQ.	DIRECT	EFFECT	SAMPLING
0	0	0	0	Off

LEVEL	TIME	FACTOR	FEEDBACK	FILTER
0	2ms	× 0.25	0	0
INTEN.	FREQ.	DIRECT	EFFECT	SAMPLING
0	0	0	10	Off

Fin 5

4) Do the same adjustment for UNIT B with VR202 and VR203.
Note 1: Distortion in the EFFECT OUTPUT increases if adjust- ment 2) and 3) are not correct.
Note 2: If you have a Distortion Meter, you can confirm distortion ratio as shown below by inputting sine wave of 400Hz, -10dBm to SDD-1200 UNIT A.
1) DIRECT VR 0, EFFECT VR 10: Distortion ratio = less than 0.5%.
2) DIRECT VR 10, EFFECT VR 0: Distortion ratio = less than 0.05%

7) Feedback Check and Adjustment _

Set as above, then;

- 1) Input sine waveform of 400Hz, -24dBm form a Standard Signal Generator (SG) to SDD-1200.
- 2) Confirm if it does not feedback when FEED-BACK VR is set to ± 8 and feedbacks at ± 10 .
- 3) If necessary adjust VR101 for UNIT A and VR201 for UNIT B.

Note:

If each value of plus and minus is different, you can use the one that is easier to feedback.

4) Set the input signal to "0" and confirm if it does not feedback when FEEDBACK VR is set to ± 10 .

LEVEL	TIME	FACTOR	FEEDBACK	FILTER
10	32ms	× 0.25	Adj.	0
INTEN.	FREQ.	DIRECT	EFFECT	SAMPLING
0	0	0	10	Off

	PARTS CODE	PARTS NAME SPECIFICA	TIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY
		CARBO	N RES	ISTORS	4	
	10416000	1/6JTP 0 OHM		KLM-6000		1
				KLM-6001		4
				KLM-6018		2
	10416222	1/6JTP 22 OHM		KLM-6000		2
	10416268	1/6JTP 68 OHM				4
	10416310	1/6JTP 100 OHM				16
				KLM-6001		4
	10416322	1/6JTP 220 OHM		KLM-6000		4
	10416336	1/6JTP 360 OHM		KLM-6001		2
	10416351	1/6JTP 510 OHM		KLM-6000		4
	10416356	1/6JTP 560 OHM				2
	10416410	1/6JTP 1.0K				22
				KLM-6001		5
	10416415	1/6JTP 1.5K		KLM-6000		2
	10416422	1/6JTP 2.2K				2
	10416433	1/6JTP 3.3K				6
				KLM-6001		9
	10416447	1/6JTP 4.7K		KLM-6000		2
	10416475	1/6JTP 7.5K				12
	10416510	1/6JTP 10K				30
				KLM-6001		8
	10416512	1/6JTP 12K		KLM-6000		4
	10416515	1/6JTP 15K		KLM-6001		1
	10416520	1/6JTP 20K				1
	10416522	1/6JTP 22K		KLM-6000		12
	10416527	1/6JTP 27K				2
	10416530	1/6JTP 30K				2
I	10416533	1/6JTP 33K		KLM-6001		4
l	10416539	1/6JTP 39K		KLM-6000		12
l				KLM-6001		2
	10416556	1/6JTP 56K				2
	10416568	1/6JTP 68K		KLM-6000		2
	10416575	1/6JTP 75K				2
				KLM-6001		1
	10416582	1/6JTP 82K		<lm-6000< td=""><td></td><td>4</td></lm-6000<>		4
	10416610	1/6JTP 100K				42
			E F	<lm-6001< td=""><td></td><td>15</td></lm-6001<>		15
	10416615	1/6JTP 150K	۲	(LM-6000		2
	10440000			(LM-6001		2
	10416620	1/6JTP 200K				4
	10416622	1/6JTP 220K	K	(LM-6000		8
	10416633	1/6JTP 330K				2
_	10416639	1/6JTP 390K	K	(LM-6001		2

PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY				
10416647	1/6JTP 470K	KLM-6001		4				
10416710	1/6JTP 1.0M	KLM-6000		4				
		KLM-6001		12				
10416747	1/6JTP 4.7M	KLM-6000		12				
	METAL FILM R	ESISTORS						
12514715	S1/6W 7.15K	KLM-6000		2				
12514909	S1/6W 9.09K			8				
12515107	S1/6W 10.7K			4				
	BLOCK RESISTORS							
13503610	RKC1/8B3J 100KΩ	KLM-6000		2				
13505522	RKC1/8B5J 22K			2				
13505610	RKC1/8B5J 100K			2				
13807004	RN3QEL 102Z (1KΩ × 12bit)			2				
	MYLAR CAPA	CITORS						
20402410	50V 0.001UF	KLM-6000		2				
20402415	50V 0.0015UF			4				
		KLM-6001		2				
20402418	50V 0.0018UF	KLM-6000		2				
20402433	50V 0.0033UF			4				
20402447	50V 0.0047UF	KLM-6001		2				
20402510	50V 0.01UF	KLM-6000		10				
00400547		KLM-6001		6				
20402547	50V 0.047UF			4				
20402610	50V 0.10F			4				
20402612	50V 0.12UF			2				
	STYROL CAPA	CITORS						
20502310	50V GT 100PF	KLM-6000		4				
20502312	50V GT 120 PF			2				
	CERAMIC CAP	ACITORS						
21452220	50V 22PF TP	KLM-6000		6				
21452470	50V 47PF TP			2				
21453100	50V 100PF TP			2				
21453220	50V 220PF TP	KLM-6001		4				
21453330		KLM-6000		2				
21453470	5UV 4/UPF 1P			2				
21452900		KLM-6001		4				
21455100		KLW-6000		12				
21400100				2				
21400470	50V 0.04/UP IP	KI M-6001		12				
900600	FCO-U24473MN							
				Jo l				

8. PARTS LIST

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PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY
	EMI FILT	ГЕ R		
21950100	DSS310-55D223S	KLM-6000		2
		PACITORS		
22425022	35V 0.22UF	KI M-6000		
	ELECTROLYTIC			4
23511347	25V 470UE	KIM 6000		
23513410	35V 1000UE	KLIVI-0000		1
25403210	16V 10UE			2
25403247	16V 47UE			28
25403310	16V 100UE			2
20400010		KI 14 0001		6
25403333	161/ 220115	KLM-6001		1
25403333	25V 4 7UE	KLM-6000		3
25404147		KLM-6001		2
25404322		KLM-6000		1
25406110		KLM-6001		2
25464147		KLM-6000		4
25464210	25V 10UF			6
05400440		KLM-6001		2
25466110	50V 1UF	KLM-6000		12
25466133	50V 3.3UF			2
	P.P.C			
26401418	100V 0.0018UF	KLM-6000		4
26401436	100V 0.0036UF			8
	TRANSIST	ORS		
30001007	2SA798 F/G	KLM-6000		2
30400050	2SA1175	KLM-6001		2
30420120	2SC945	KLM-6000		2
		KLM-6001		4
	FET			
30460021	2SK381-34-C	KLM-6000	r	12
	BRIDGE DI	DDE		
31010100	1B4B41	KLM-6000		2
•	LED			
31201400	PR 3932S	KLM-6002	T	3
		KLM-6003		2
31203900	SLB-26VR3F RED	KLM-6004		4
31204000	SLB-26MG3F GREEN			4
	DIODES	<u> </u>		· · ·
31001500	SR1K-2	KLM-6000		A
31401300	1SS-133	KLM-6000		22
		KLM-6001		<u>دد</u> ۸
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PARTS CODE	PARTS NAME SPECIFICATION	S P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY
	ICs			L
32001034	UPC-1571 C	KLM-6000	Campander	2
32001067	74HC00C		Gate	2
32001085	UPD65010CW-113		Gate array	2
32001087	UPC319C		Comparator	2
32001104	UPD-41464 CF-12		D-RAM	4
32002027	AN6888	KLM-6001	LED driver	1
32009004	NJM-78L05A	KLM-6000	+ 5V regulator	2
32009005	NJM-4558 S		OP AMP	10
		KLM-6001		3
32009014	NJM-2901 N	KLM-6000	Comparator	2
32009015	NJM-2903 D		Comparator	2
32009026	NJM-137000-D		Transconduc- tance AMP	2
32009034	N IM-70M15A		+ 15V regulator	
32009050	N.IM-072S	KI M GOOT	- 15V regulator	
32009051	N.IM-2903S	KLIVI-OUU I		2
32011020	M5224P	KI M 6000		2
	B C BO			2
34360000	F.C.BU			
34360010	KLM-6001	KLM-6000		1
34360021	KI M-6002/3/17	KLM-6001		1
34360040	KI M-6004	KLM-6002		1
34360180	KI M-6018	KLM-6018		
0.000.00	SEMI EIVE			1
35002310				
35002410		KLM-6000		8
33002410	HH0013C13 100K			2
00040000	VHs		······································	
36019800	PK1242210B14 10KB×2	KLM-6001		5
36019900	PK1242210B54 50KB×2			2
36020000	PK1242210A15 100KA×2			1
36020100	PK1242210B15 100KB×2	L I		1
27000400	SLIDE S	\$W		
37306100	555P12	KLM-6001		3
07500100	POWER	SW		
3/506100	SUL-1P	L		_1
	TACT S	W	 	
37508300	SPPJ31	KLM-6017		1
10010555	POWER TRANS	SFORMER		
40010000	1C-600			1

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PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY
	PHONE J	ACK	4	.
45402000	HLJ0520-01-110	KLM-6000		16
	PHONE JACK SN	AP PALATE		
45402000				6
	FUSE			
46411701	250V 0.5A UL		100V	1
			117 US	1
			JAM	1
46440000			117 2P	1
46412003	250V 1.0A UL		100V	3
			117 US	3
			JAM	3
46461704	0501/ 750011		117 2P	3
40401701	250V 1500MA		220 GE	1
			220 SE	1
			240 AF	1
			240 AU	1
			240 GE	1
			GAF	1
			FIMKO	1
			240 RME	1
46462001	250\/ T1 04		220 WG	1
10 102001	2007 11.04		220 GE	3
			220 SE	3
			240 AF	3
			240 AU	3
			240 GE	3
			GAF	3
			FIMKO	3
			240 HME	3
	CONNECTOR		220 110	3
47190200	5096-02C	KLM-6018	r	
•	CONNECTO	DR		
47150500	B5P-VH	KLM-6000		1
47191030	PI22A-03M	KLM-6001		1
47191060	PI22A-06M			4
47191070	PI22A-07M			1
47191080	PI22A-08M			3
7191090	PI22A-09M			1
7191100	PI22A-10M			1
	HARNESS			
7506000	H*:~_6000	KLM-6000		1
100001				1

PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY
47506002	HNS-6002	KLM-6000		1
47506003	HNS-6003			1
47506004	HNS-6004			1
47506005	HNS-6005			1
47506006	HNS-6006			1
47506007	HNS-6007			1
47506008	HNS-6008			1
47506009	HNS-6009			1
47506010	HNS-6010			1
47506011	HNS-6011			1
47506012	HNS-6012			2
	RUBBER F	EET		
50007800	25×25×4.5BLK			4
	FUSE HOL	DER		
51502300	S-N5057 #01	KLM-6000		6
		KLM-6018		2
	WIRE BAI	ND		
54007200	PLT-1M			10
	ISOLATING W	ASHER		
54007300	B-1725K	KLM-6000		2
	CLUMP			
54011100	CK-07H	1		1
	INLET SOC	KET		
54012300	PA-125-BS		240 BME	1
54012400	PA-125-CU		100V	1
			117 US	1
			JAM	2
			117 2P	1
			220 GE	1
			220 SE	1
			240 AF	1
			240 AU	1
			240 GE	1
			GAF	2
			FIMKO	1
			220 WG	1
	SLIDE SW. M	ASK		
55005400				3
	HEATSIN	(
56003400		KLM-6000		1
2			~	Ì

PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD		Q'TY
	RADIATION	SHEET		
56500300	BFG-30			2
	SPACE	R		
57504200	N0.5 L = 5.3	KLM-6002		3
		KLM-6003		2
	GND SE	AL		
58001900			117 US	1
			JAM	1
			220 GE	1
			220 SE	1
			240 AF	1
			240 AU	1
			240 GE	1
			GAF	1
			FIMKO	1
			240 RME	1
			220 WG	2
	AC COR	D		
60003200	UC-948-S01		117 US	1
60003300	UC-953-S01		JAM	1
60003400	EC-423-S01		220 SE	2
60003500	SC-304-S01		240 AU	1
60003600	EC-606-E01		220 GE	1
			240 AF	1
			240 GE	1
			GAF	1
			FIMKO	1
			220 WG	1
60003700	BH-309-S01		240 RME	1
60003800	DC-480-S01		100V	1
			117 2P	1
	POWER SW H	(NOB	L	
62011100	SUE55102 BLK			1
	ROTARY VR KNO			<u> </u>
62015301				9
t	ROTARY VR KNO	B SMALL		
62015401				0
4		IOB		
62016500	MK-15 BLK			1
	SHIELDING SH			
63002800				

)			~	
PARTS CODE	PARTS NAME SPECIFICATION	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TI
	METAL FITTING OF	FRONT PANEL	 (L)	L
64063600				1
	METAL FITTING OF	RONT PANEL ((R)	_
64063601		1		1
	FRONT PANE	L BOARD	L	· · · ·
64063700			1	2
	PHONE JAC		L	_ _
64076200			r	1
<u> </u>	FRONT P	ANEL		I
64076300				1
	FRONT CH	ASSIS	· · · · · · · · · · · · · · · · · · ·	
64076400				1
	UPPER (ASE	<u> </u>	·
64076500				1
	LOWER		<u>_</u>	.
64076600			[······	1
67200201	4PHY N3			4
		ATE		
68600600			100V	1
68600700			117 US	1
			JAM	1
			117 2P	1
			220 GE	1
			220 SE	1
			240 AF	1
			240 AU	1
			240 GE	1
				1
			240 RIVIE	1
I	SCRE			
70060512	FE P BZMC 5×12	TT		4
70530204	FE B ZMC 2×4			1
70530306	FE B ZMC 3×6			26
70530308	FE B ZMC 3×8			2
70560408	FE B ZMC 4×8			3
72160308	TP2G F BZMC 3×8			4
72560306	TP2G B BZMC 3×6			20
72560308	TP2G B BZMC 3×8			2

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PARTS CODE	PARTS NAME SPECIFICATIONS	P.C. BOARD	IDENTIFICATION NO. FUNCTION	Q'TY
	NUT		• • • • • • • • • • • • • • • • • • •	
77030400	FHN ZMC 4			3
77330900	VN ZMC 9			9
	WASHE	R		
78060500	WM BZMC 5×12			4
78160400	WK BZMC 4			4
78430400	TWU ZMC 4			1
	PHONE JACK	WASHER		
79040914	N-3 9×14×0.5			9
	SCREW W/HE	K. HOLE		
79090408	4×8 BZMC			4

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