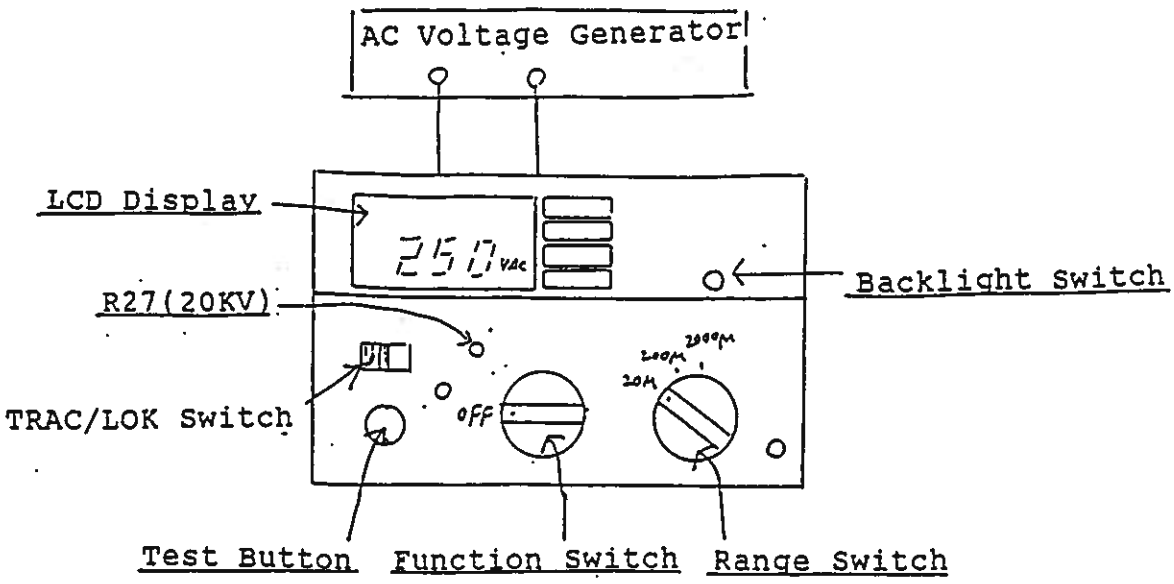
Calibration Procedures for DIMIT

(1) AC Voltage Display Calibration (using variable resistor R27) for Models 3005 & 3007



Connect the instrument to the Power Source(9VDC) for calibration before conducting the calibration

1. Turn the function to the off position.
   Also, set Trac/Lok mode switch to the Trac position on Model 3007 .

2. Set the range switch to the MΩ range position(20MΩ, 200MΩ or 2000MΩ).

3. Connect the output terminals of the instrument to the Voltage output terminals of the AC voltage generator.

4. Apply 50Hz or 60Hz, 250V voltage to the instrument from AC voltage generator.

5. At that time, the beeper sounds.(intermittently and continuously)
   Make sure that the display on the LCD indicates the input voltage.

6. Rotate variable resistor R27(20KV) so that the display on the LCD reads 250VAC.

7. Press the press to test botton.
   Make sure that the display reading on the LCD disappears and all the operations stop.

(2) Calibration using variable resistor (R45) on continuity range for Model 3005 & 3007

1. Insert the fuse and set the fuse contact.
   (This fuse should be installed individually on the instrument calibrated.)

2. Set the DC power source to 8 volts.

3. Short the terminals with a cord 100MM long for Models 3005 & 3007.

4. Set the Function Switch to the Ω position.
   Set the Range Switch to the 2,000 Ω position.
   Set the Mode Switch to the TRAC (Model 3007 only) position.

5. Input 100 Ω and adjust R45 so that the display on the LCD reads between 97 and 98 Ω.

(3) Adjustment for setting Zero using variable resistor (R37) for Models 3005 & 3007

1. Set the DC power source to 8V.

2. Short the instrument terminals by inserting the 100MM long cord for calibration.

3. Switch off the instrument once to cancel out the resistance of test lead itself.

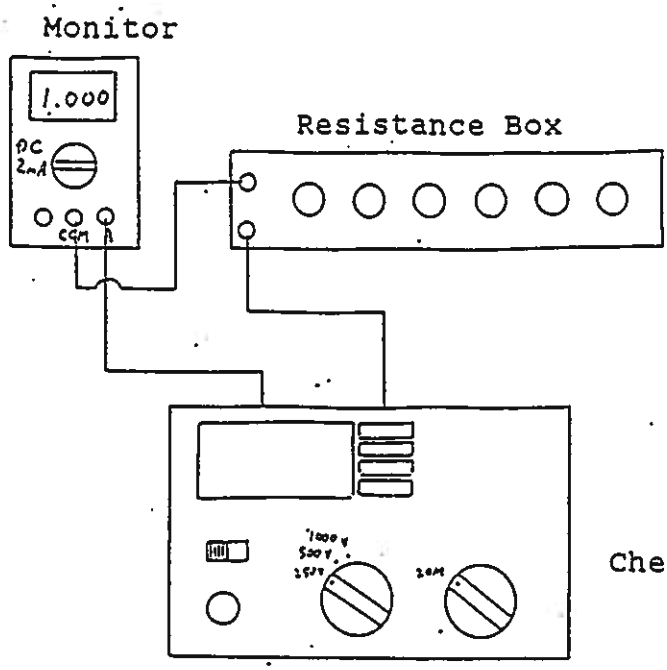
4. Set the Function Switch to the Ω position.
   Set the Range Switch to the 20 Ω position.
   Set the Mode Switch to the TRAC (Model 3007 only) position.

5. Measure the fuse resistance value with your multimeter.
   Adjust R37 so that the display on the LCD reads between 0.03 and 0.05 Ω plus the fuse resistance value.
   The display of "-.00" is not allowed.

6. Make sure that 10 Ω is displayed accurately on the 20 Ω range.

7. The fuse used for the adjustment should be furnished with the instrument.

(4) Check of output current for insulation resistance ranges for Models 3005 & 3007

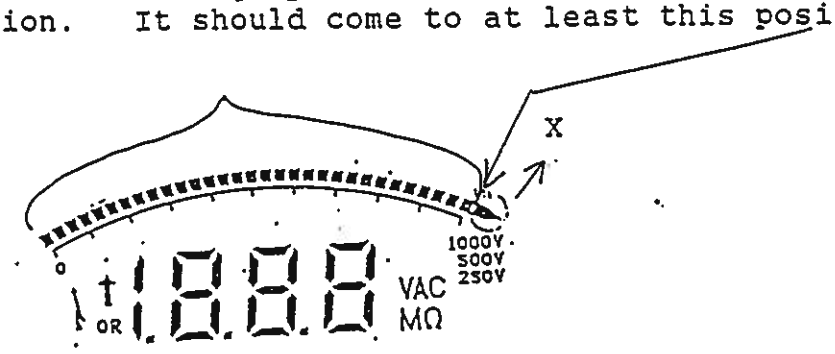


Function Switch	Resistance Box
500V	500KΩ
1,000V	1MΩ

Check 1MΩ only for Model 3005 & Model 3007

1. The monitor should be set to the DC2mA range.
2. Set the Function Switch to the 1,000V position.

Note: Where output current is more than 1mA, there is no need for the bar graph to reach the "over level"(X) position. It should come to at least this position.



3. Set the Range Switch to the 20MΩ position.
4. Set the Mode Switch to the TRAC(Model 3007 only) position.
5. Set the resistances of the resistance box as shown in the table and make sure that output current is between 1mA and 1.3mA.

SYM.	DESCRIPTION SPEC	QUANT.
IC2	IC MC34063(IR3M03A)	1
IC4	〃 TLC27M2CP	1
TR1,6	TRANSISTOR BC337	2
TR2,3,5,7	〃 BC327	4
D1	ZENER DIODE BZX79C5V1	1
D2～4,6,8～11	Si.DIODE 1N4448	8
D13,14,17,18,21～23	〃 〃	7
D5,15,24	Si.DIODE TFR1T	3
D19,20	〃 1N4007	2
D7	ZENER DIODE BZX79C15	1
D16	〃 BZW03-C12	1
X1	BUZZER CB24PAC	1
T1	TRNSFORMER 65-1110	1
L1	INDUCTOR LHLC06TB101KH	1
SW2,3	ROTARY SWITCH KYORITSU	2
SW4	PUSH SWITCH 8R2022	1
C1,14,16	CERAMIC CAP. 0.1μF/25V	3
C2,11	MULTI-LAYER CAP 0.047μF/50V	2
C3,8	MKT CAP. 370 35103	2
C7	MULTI-LAYER CAP 0.47μF/25V	1
C4	CERAMIC CAP. 2200pF/2kV	1
C18	〃 4700pF/2kV	1
C5,12	MF CAP. 0.047μF/630V	2
C13	ELECTROLYTIC CAP. 10μF/16V	1
C17	〃 1μF/50V	1
C25	無極性電解 1μF/50V	1
R1～3,8	CARBON FILM RES. 1/4W 47kJ	4
R5,6,17	〃 〃 100J	3
R43	〃 〃 470J	1
R26,44	〃 〃 4.7kJ	2
R9,32	〃 〃 10kJ	2
R31,48,55	〃 〃 100kJ	3
R23	〃 〃 1kJ	1
R49	〃 〃 1MJ	1
R19	METAL FILM RES. 1/4W 2kF	1
R39	〃 〃 2.7kF	1
R35	〃 〃 33kF	1
R15,36	〃 〃 100kF	2
R4	〃 1W 0.12J	1

SYM.	DESCRIPTION SPEC	QUANT.
R30	METAL GRAZE RES. 1/2W 22MF	1
R29	〃 1W 100kF	1
R47,53	〃 1/2W 1.1MF	2
R20,52	METAL FILM RES. 2W 110kJ	2
R7,51	SPECIAL POWER RES. 3W 200kJ	2
R46	WIREWOUND RES. 2W 27F	1
R38	METAL FILM RES. 1/4W 82F	1
R54	〃 〃 120kF	1
R45	TRIMMER POT. KVSF637A B5k	1
R55	SPECIAL POWER RES. 2W 10kJ	1
LK3	JUMPER ZERO OHM RES.	1
BATT	SUM-3	6
FUSE	FUSE S501F 0.5A/250V	1
R34	METAL FILM RES. 1W 97.6K	1

NAME	KMP3075/3050/MODEL3007/3005(1/3)		
DATE	APPROVAL	CHECKER	DRAFTMAN
	共立	共立	共立

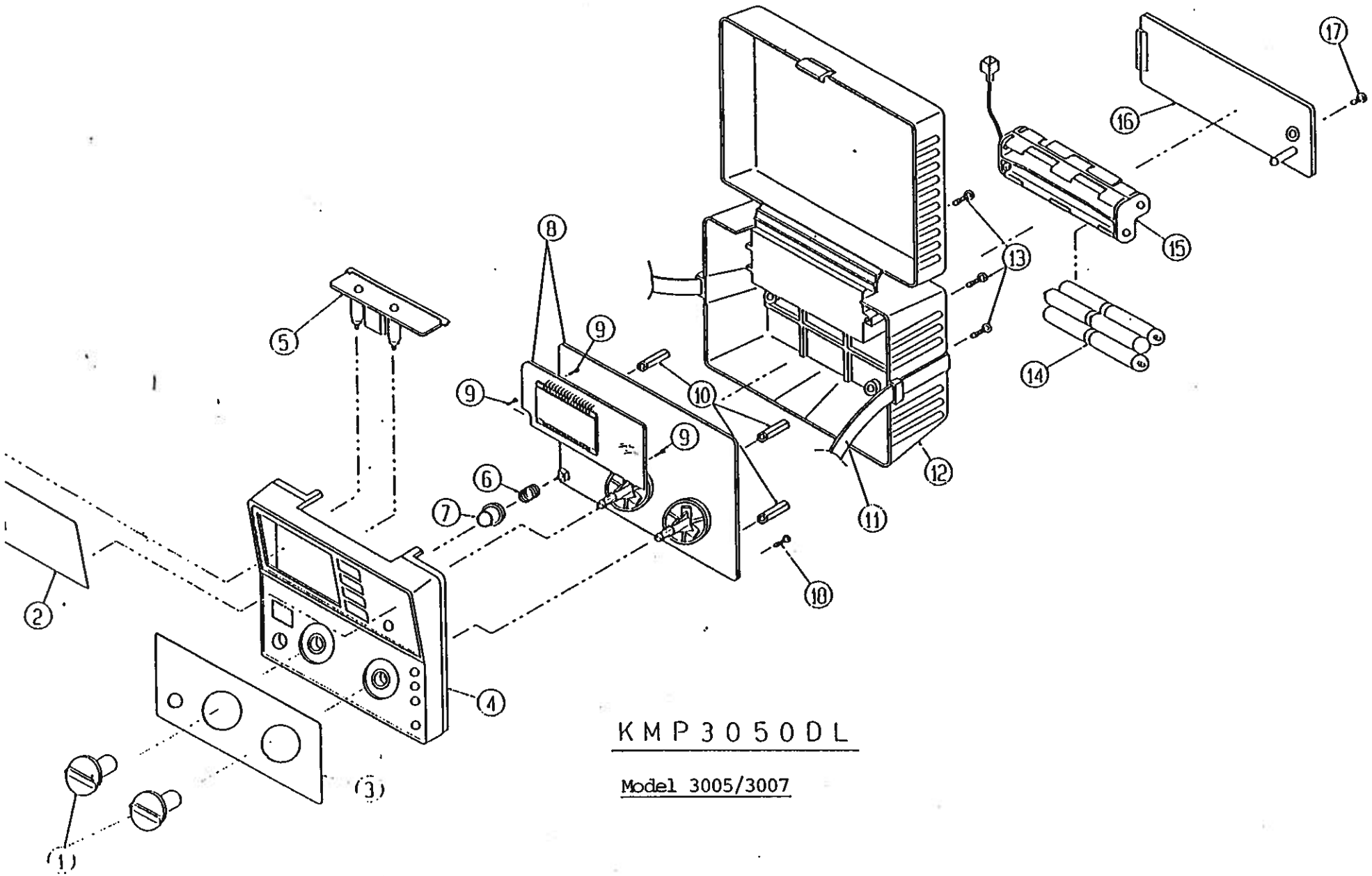
SYM.	DESCRIPTION SPEC	QUANT.	SYM.	DESCRIPTION SPEC	QUANT.
IC1	IC ICL7660(LTC1044CN8)	1			
IC3	〃 LM393P	1			
(IC4)	〃 (TLC27M2CP)	(1)			
IC5	〃 μPD4066C	1			
IC6	〃 μPD4051BP	1			
IC7	〃 LM336Z-2.5	1			
IC8	〃 LM2931Z-5.0	1			
TR4	TRANSISTOR BC327	1			
D12	Si. DIODE 1N4448	1			
C6,10	ELECTROLYTIC CAP. 10uF/16V	2			
C21	〃 47μF/25V	1			
C23	〃 Ⓑ4700μF/10V~~1000μF/16V~~	1			
C15,20,22	CERAMIC CAP. 0.1μF/25V	3			
C24	MULTI-LAYER CAP 0.01μF/50V	1			
C9	MKT CAP. 370 35103	1			
C19	〃 1μF/63V	1			
R10	CARBON FILM RES. 1/4W 4.7kJ	1			
R12	〃 〃 200kJ	1			
R11,13,16,22	〃 〃 100kJ	4			
R28,33	〃 〃 100kJ	2			
R18,25,30	〃 〃 10kJ	3			
R41,42	〃 〃 47kJ	2			
R14	〃 〃 100kJ	1			
R27	TRIMMER POT. KVSF687A B20k	1			
R37	〃 〃 B100k	1			
SW1	SLIDE SWITCH ESD2765U	1			
(SW3)	(ROTARY SWITCH KYORITSU)	(1)			

NAME KMP3075/3050/MODEL3007/3005(2/3)

DATE APPROVAL CHECKER DRAFTMAN

SYM.	DESCRIPTION SPEC	QUANT.	SYM.	DESCRIPTION SPEC	QUANT.
IC1	CPU μPD75304GF	1			
IC2～6	IC μPD4030BG	5			
IC7	〃 μPD74HC174G	1			
IC8	〃 NJM555M	1			
LCD	LCD DLC-7928P	1			
TR1	TRANSISTOR BC848B	1			
EL1	EL 63-1040	1			
D1,2	Si.DIODE RLS4448	2			
X1	BUZZER PKM22EPP-4001	1			
X2	CERAMIC発振子 CSA4.19MGC	1			
T1	TRANSFORMER 65-1151	1			
SW1	TACT SWITCH SKHMPF	1			
C1～3	MULTI-LAYER CAP. GRM40F104Z25	3			
C4,5	〃 GRM40CH330K50	2			
C6,9	ELECTROLYTIC CAP. 10μF/16V	2			
C7,8	MULTI-LAYER CAP. MCH315C103K	2			
C10	ELECTROLYTIC CAP. 220μF/16V	1			
R1,4,6,9	FLAT CHIP RES. RK73K2E 10kJ	4			
R2,7	〃 〃 100kJ	2			
R3	〃 〃 1MJ	1			
R5	〃 〃 3.3MJ	1			
R8	〃 〃 330J	1			
R10	〃 〃 47kJ	1			

NAME	KMP3075/3050/MODEL3007/3005(3/3)		
DATE	APPROVAL	CHECKER	DRAFTMAN
1997.05.27	共立	共立	共立 '97.5.27



KMP3050DL

Model 3005/3007

ASSEMBLY PARTS LIST

構成図　部品名一覧表　KMP 3050/3005/3007

ASSEMBLY DWG. NO	部品番号	スペアーパーツNo. SPARE PARTS NO	品名 DESCRIPTION	備考（構成部品） REMARKS
	①	0006846	レンジツマミ4116 G3新	
	②	0007293	Rage switch knob 透明板 KMP3050DL WINDOW SECTION	
	③	0007292	ネームプレート KMP3050DL Name plate	
	④		パネル完成品 FRONT PANEL	波形スプリングピン付き COMPLETE WITH CORRUGATED SPRING PIN
	⑤		コネクターブロック完成品 CONNECTOR BLOCK	コネクタープレート付き COMPLETE WITH CONNECTOR PLATE
	⑥	0003400	プッシュスプリング Push spring	
	⑦	0003380	ロック付きプッシュボタン PUSH BUTTON WITH LOCK MECHANISM	
	⑧		PCB完成品 PCB ASSEMBLY	スイッチ軸等付き COMPLETE WITH SWITCH AXIS, ETC.
	⑨	0001302	ネジ Bタイト +N2.3X6 SCREW	
	⑩	0004387	スペーサー SPACER	
	⑪	0004385	ストラップベルト STRAP	
	⑫		ケース完成品 Case	シール付き COMPLETE WITH LABEL
	⑬	0004386	ネジ +N M4X12 ボリ SCREW	
	⑭	0007749	バッテリー 1015VPX BATTERY	
	⑮		電池ケース付きハーネス HARNESS WITH BATTERY HOLDER	スポンジ付き COMPLETE WITH A SHEET OF SPONGE
	⑯	0005398	電池裏蓋 BATTERY COMPARTMENT COVER	
	⑰	0000236	裏蓋ネジ FIXING SCREW NUT ASSY	
	⑱	0001666	ネジ Bタイト +NM3X8 SCREW	