AD-4327A/B

WEIGHING INDICATOR

TECHNICAL INFORMATION

Tech-AD-4327A/B-v.1.a 94/10/26 HYM

AD-4327A AD-4327B



Contents

Electronic Circuit Parts List

7 P Z: 2678-MAIN Main Board

7 PZ: 2678-OPT Option Connector Board

7 P Z: 2678 - PS Power Supply Board

7PZ: 2678-TERM Terminal Board

7 P Z: 2735 RS232C and Relay output

7PZ: 2735A Current Loop

7 P Z : 2 7 3 5 B R S 2 3 2 C

Electronic Circuit Diagram

PZ:2678 Main Board

PZ: 2735 RS232C and Relay output

PZ: 2735A Current Loop

PZ: 2735B RS232C

Board Component Location

PZ: 2678-MAIN Main Board

PZ: 2678-OPT Option Connector Board

PZ: 2678-PS Power Supply Board

PZ: 2678-TERM Terminal Board

PZ: 2735 RS232C and Relay output

PZ: 2735A Current Loop

PZ: 2735B RS232C

Exploded View

V I E W - 1

VIEW-2

PART LIST

7 P Z : 2 6	78-MAIN	:	
CIRCUIT SYMBOL	PARTS NAME	DESCRIPTION	Q' TY
C3, 7, 44 C5, 6, 9, 10, 12, 15~17, 20 C45~48 D2~17	PC: 2678D CC: 0. 01UT CC: 0. 1U25VT CC: 330PT DI: 1SS270T	PRINTED CIRCUIT BOARD CAPACITOR 0.01 \(\mu \) F 50 V CAPACITOR 0.1 \(\mu \) F 25 V CAPACITOR 330 \(\mu \) F DIODE	1 3 9 4 16
LED2 LED3 LED1 BZ1 J7	DL: PG5553KY DL: PR5553K DL: PY5553K ET: MEB-12C-5 JI: 07P-S2L2-EF	LED GREEN LED RED LED YELLOW MICRO BUZZER CONNECTOR	1 1 1 1 1
J2 J4 J3 Q1, 2	JI:9P-S2L2-EF JT:174074-6 JT:174074-9 KB:126015GN77 QT:BA1A4PT	CONNECTOR CONNECTOR CONNECTOR WIRE TRANSISTOR BA1A4P	1 1 1 1 2
Q3. 6 R11. 12, 14, 31, 33 R8, 34 R6, 18, 27~29 R25, 26	QT:BN1A4PT RC:NAT1.5KJT RC:NAT10KJT RC:NAT2.7KJT RC:NAT270RJT	TRANSISTOR BN1A4P RESISTOR 1.5K Ω 1/4W RESISTOR 10K Ω 1/4W RESISTOR 2.7K Ω 1/4W RESISTOR 270 Ω 1/4W	2 5 2 5 2
R1 R7. 9. 10, 32 R15 R16, 17 R2	RC: NAT5. 6 K J T RC: NAT5 6 K J T RC: NAT8 2 0 R J T RN: I HR-4-2 2 3 M A RN: I HR-6-2 2 3 M A	RESISTOR 5.6K Ω 1/4W RESISTOR 56K Ω 1/4W RESISTOR 820 Ω 1/4W RESISTOR NETWORK 22K Ω RESISTOR NETWORK 22K Ω	1 4 1 2 1
S1~16 U2 U4 U3 U5	SK: SKHHAK UA: S-8054ALB UC: HC02 UC: HC74 UC: RP93C46	TACT SWITCH VOLTAGE COMPARATOR HCMOS IC HCMOS IC EEPROM	16 1 1 1
XI NI	UC: 47C820Z-N977 XT: KBR4. 91MKSTF MF: AMZ41 04: B47798 06: B42071	CPU CERAMIC OSC AD MODULE TERMINAL SPACER	1 1 1 2
	06:B47633	PILLOW	3

PARTS LIST

CIRCUIT SYMBOL	PARTS NAME	DESCRIPTION	Q' T
11	PC: 2678D JA: TCS5380	PRINTED CIRCUIT BOARD CONNECTOR DIN8P	1
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7 P Z : 2 6	78-PS		
CIRCUIT SYMBOL	PARTS NAME	DESCRIPTION	Q' TY
C22, 43, 44 C23, 24, 26, 29, 30, 32 C25 C34	PC: 2678D CC: 0. 01UT CC: 0. 1U25VT CK: SME10VB47 CK: SME25VB10	PRINTED CIRCUIT BOARD CAPACITOR 0.01 \(\mu \) F 50V CAPACITOR 0.1 \(\mu \) F 25V CAPACITOR 10 \(\mu \) F 25V CAPACITOR 10 \(\mu \) F 25V	1 3 6 1
C28 C27, 31 HT1 J6 J1	CK: SXE 2 5 VB 4 7 0 L CT: 1 V 0 1 0 T HT: 6 0 7 3 PB JE: 0 4 8 6 - 0 1 - 0 1 0 JI: 0 9 P - S 2 T 2 - E F	CAPACITOR 470 μ F 25V CAPACITOR 1 μ F 35V HEAT SINK CONNECTOR CONNECTOR	1 2 1 1
NF1 Q4 Q5 R22, 24 R19	NF: EXCEMT103DT QT: A1015YT QT: A1020YT RC: NAT1. 5KJT RC: NAT270RJT	EMI FILTER TRANSISTOR 2SA1015Y TRANSISTOR 2SA1020Y RESISTOR 1.5KΩ 1/4W RESISTOR 270Ω 1/4W	1 1 1 2 1
R20 R21 S17 U7	RC:NAT5.6KJT RC:NAT56KJT SK:TM1-01/0010 UR:24M05HF	RESISTOR 5.6KΩ 1/4W RESISTOR 56KΩ 1/4W KEY SWITCH VOLTAGE REGULATOR	1 1 1 1

PARTS LIST

7 P Z : 2 6	78-TERM	·	
CIRCUIT SYMBOL	PARTS NAME	DESCRIPTION	Q' TY
J8 KB1 J9	PC: 2678D JI: 07P-S2L2-EF KB: 126015GN77 TM: F2302AX-7P	PRINTED CIRCUIT BOARD CONNECTOR WIRE TERMINAL	1 1 1 1

PARTS LÌST

7 P Z : 2 7	3 5	 	
CIRCUIT SYMBOL	PARTS NAME	DESCRIPTION	Q' TY
C2. 3, 4, 11, 12 C10 C5. 6, 7, 8, 9 C1	PC: 2735A CC: 0. 1U25V-C CC: 100P-C CT: 1D106-C CT: 1V010-C	PRINTED CIRCUIT BOARD CAPACITOR 0.1 μ F 25V CAPACITOR 100pF CAPACITOR 10 μ F 20V CAPACITOR 1 μ F 35V	1 5 1 5
PHC1, 2, 3 J2 J1 Q1, 2, 3 R14	DF: AQV253 JT: 174161-6 JT: 174161-9 QT: C2712Y-C RC: 1/10W0	PHOTO MOS RELAY CONNECTOR CONNECTOR TRANSISTOR 2SC2712-Y JUMPER (RESISTOR 0Ω)	3 1 1 3
R1. 2. 4, 5, 7, 8, 10, 11, 12 19. 20, 21 R3. 6, 9 U2 U1 U3	RC: 1/10W103J RC: 1/10W152J UA: MB3773PS-G UC: D78CP14-4326 UC: MAX232CWE	RESISTOR 10KΩ 1/10W RESISTOR 1.5KΩ 1/10W VOLTAGE COMPARATOR CPU RS232C	12 3 1 1
X1	XT: C4CB-7.37M 02: B47968	OSC BOARD CHASSIS	1

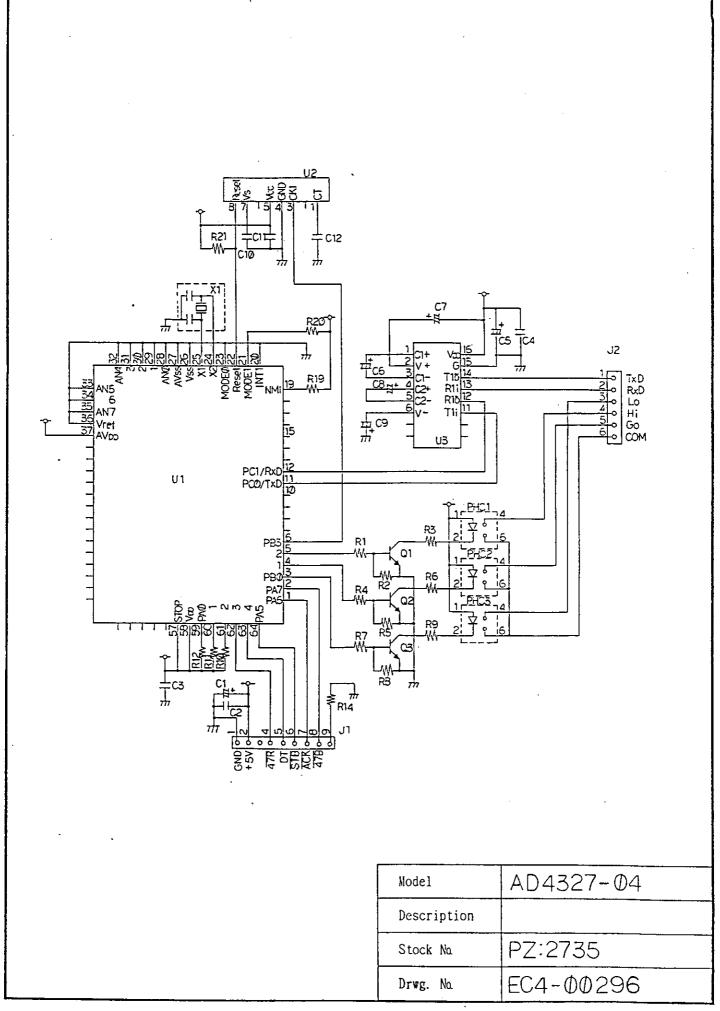
PARTS LİST

7 P Z : 2 7	3 5 Å	:	
CIRCUIT SYMBOL	PARTS NAME	DESCRIPTION	Q' TY
C2, 3, 11, 12 C10 C1 PHC4	PC: 2735A CC: 0. 1U25V-C CC: 100P-C CT: 1V010-C DF: PS2501-1L/K	PRINTED CIRCUIT BOARD CAPACITOR 0.1 μ F 25V CAPACITOR 100pF CAPACITOR 1 μ F 35V PHOTO CUPPLER	1 4 1 1
D2 D1 J2 J1 Q4.5	DI: 1 S S 1 8 1 - C DI: 1 S S 1 8 4 - C JT: 1 7 4 1 6 1 - 6 JT: 1 7 4 1 6 1 - 9 QT: C 2 7 1 2 Y - C	DIODE DIODE CONNECTOR CONNECTOR TRANSISTOR 2SC2712-Y	1 1 1 1 2
R15 R10~12, 17~21, 24 R16 R13 U2	RC: 1/10W0 RC: 1/10W103J RC: 1/10W152J RC: 1/10W471J UA: MB3773PS-G	JUMPER (RESISTOR 0Ω) RESISTOR $10\mathrm{K}\Omega$ $1/10\mathrm{W}$ RESISTOR $1.5\mathrm{K}\Omega$ $1/10\mathrm{W}$ RESISTOR 470Ω $1/10\mathrm{W}$ VOLTAGE COMPARATOR	1 9 1 1
U1 X1	UC:D78CP14-4326 XT:C4CB-7.37M 02:B47968	CPU OSC BOARD CHASSIS	1 1 1
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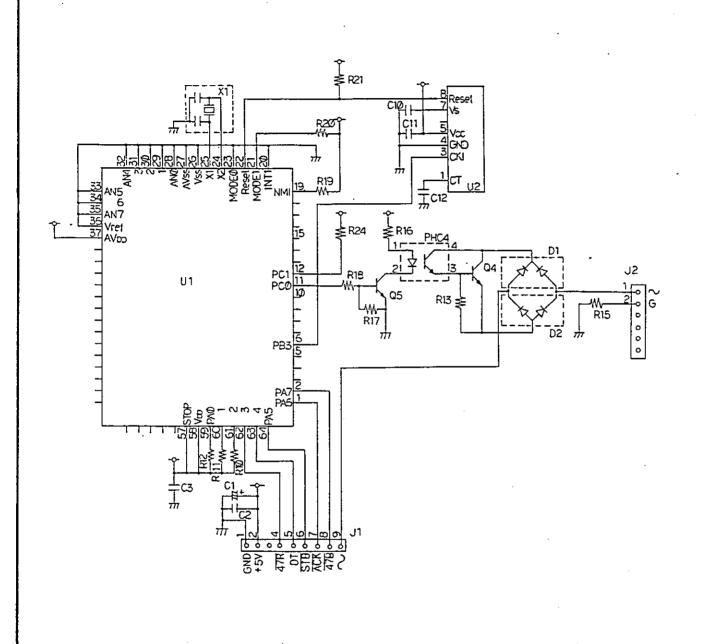
PARTS LÌST

7 P Z : 2 7 3 5 B			
CIRCUIT SYMBOL	PARTS NAME	DESCRIPTION	Q' TY
C2. 3. 4. 11. 12 C10 C5. 6. 7. 8. 9 C1	PC: 2735A CC: 0. 1U25V-C CC: 100P-C CT: 1D106-C CT: 1V010-C	PRINTED CIRCUIT BOARD CAPACITOR 0.1 μ F 25V CAPACITOR 100pF CAPACITOR 10 μ F 20V CAPACITOR 1 μ F 35V	1 5 1 5
J2 J1 R14 R10~12, 19~21 U2	JT: 174161-6 JT: 174161-9 RC: 1/10W0 RC: 1/10W103J UA: MB3773PS-G	CONNECTOR CONNECTOR JUMPER (RESISTOR 0Ω) RESISTOR 10KΩ 1/10W VOLTAGE COMPARATOR	1 1 1 6 1
U1 U3 X1	UC:D78CP14-4326 UC:MAX232CWE XT:C4CB-7.37M 02:B47968	CPU RS232C OSC BOARD CHASSIS	1 1 1 1

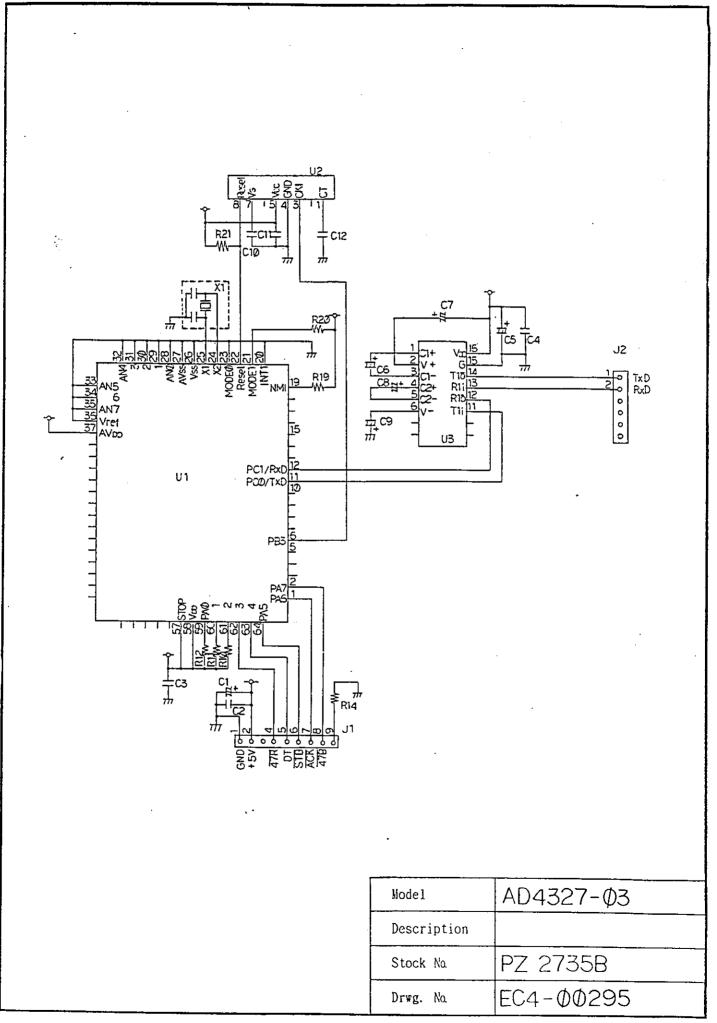
A&D CO., LTD.



A&D CO., LTD.



Nodel	AD4327-05	
Description		
Stock Na.	PZ:2735A	
Drwg. Na	EC4-00297	



A&D CO., LTD.

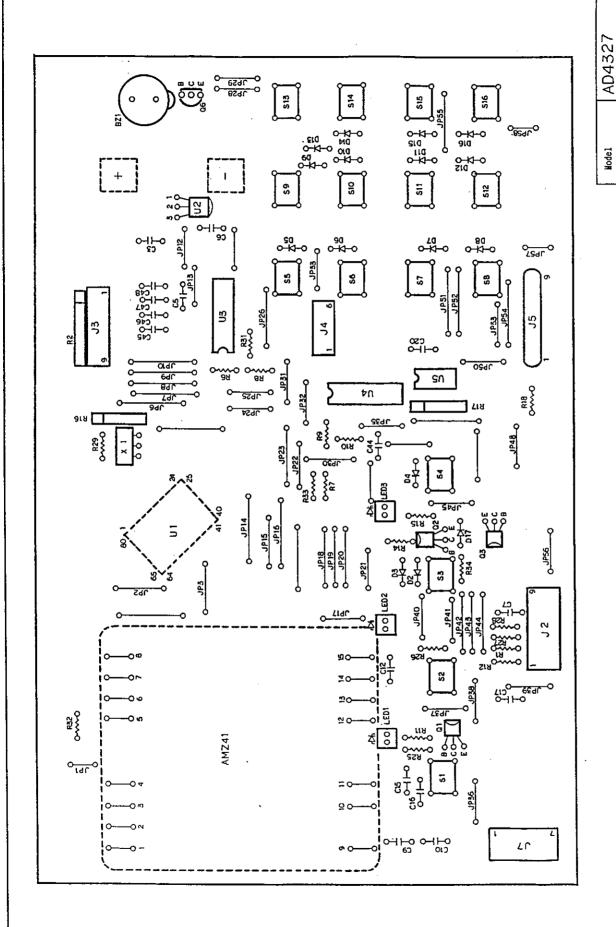
PZ:2678-MAIN KZ2-00522F

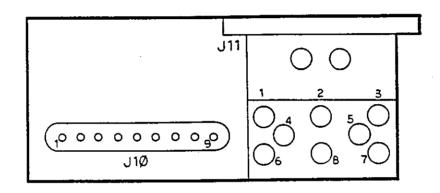
Stock Na

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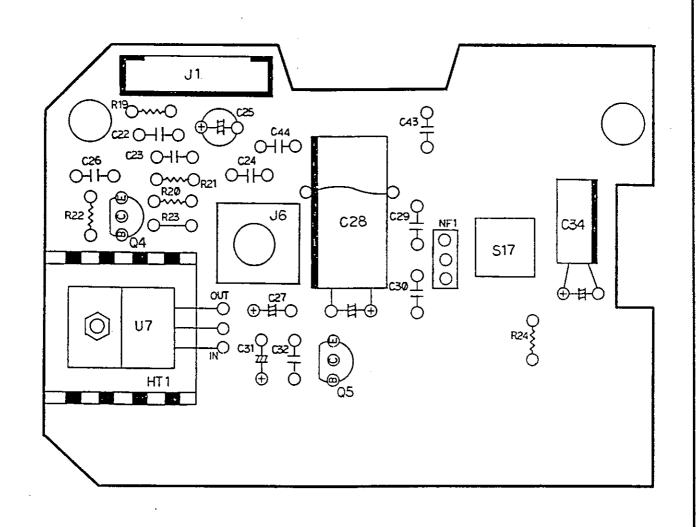
Drvg.

Description

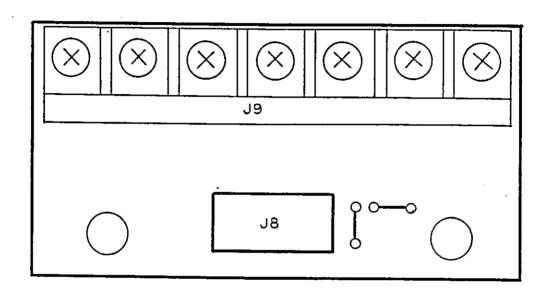




Model	AD4327	
Description		
Stock No.	PZ:2678 - OPT	
Drwg. No.	KZ2-ØØ522F	



Model	AD4327	
Description		
Stock Na	PZ:2678 - PS	
Drwg. Na	KZ2-00522F	



Model	AD4327
Description	
Stock Na	PZ:2678 -TERM
Drwg. No.	KZ2-00522F

AD4327-04

Nodel

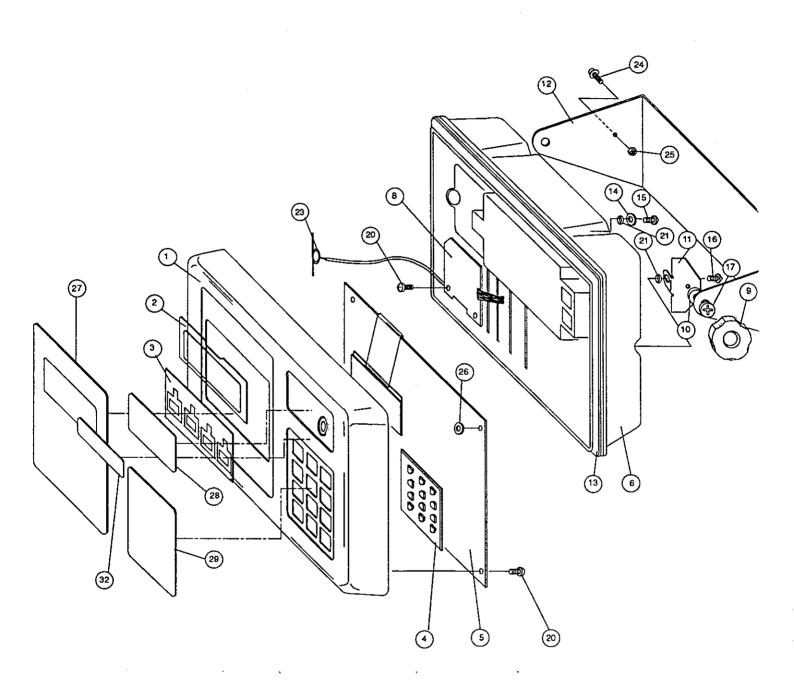
Description Stock Ma Drwg. Na

PZ:2735 KZ3-01186

C4 + G5	+ 60 + 80 + 20 + 90	o us
<u>।</u> ।	×	R20 R19
PHC1 PHC3 O	지 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	+

S18	4 0.5 0.5 E.S. E.S. E.S. E.S. E.S. E.S. E.S. E.	1×	R24 US US C11 C10	CIS
DI PAR COPE	PHC4 O 1 I	C3 R12		22

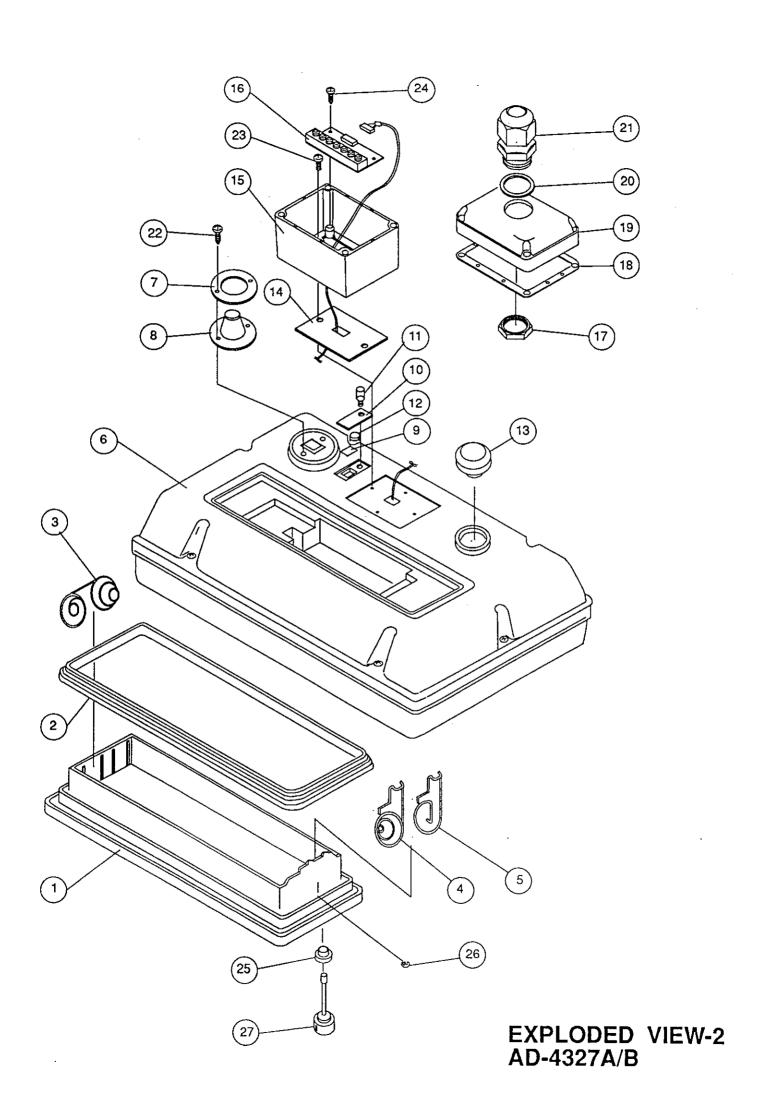
+	+ 60
C4 U3	CIS CIJ CIQ C8 + C4 C4 C5
Rit	RZ1 RZØ RT9
3 2C	0 L L L L L L L L L L L L L L L L L L L
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AD-4327A/B

Exploded view-1

NO.	PARTS NAME	DESCRIPTION		
1	09:A21336	UPPER CASE UNIT		
2	07:C40594A	DISPLAY FILTER		
3	07:B30229A	SWITCH		
4	07:B30230	KEY BOARD		
5	PZ:2678	MAIN BOARD		
6	07:A10179B	LOWER CASE		
7				
8	PZ:2678	BATTERY BOARD		
9	10:SK-34	KNOB		
10	06:C41517A	DAMPER		
11	06:C41514A	ARM		
12	04:C41715A	HOLDER ARM		
13	06:B47795A	UPPRE CASE SEAL		
14		NYLON WASHER M3		
15		BINDING HEAD M3×10		
16		PAN HEAD M3×12		
17	SPN-6	PUSH NAT M6		
18				
19				
20		PAN HEAD TAPPING SCREW M3×8		
21	10:ORINGP3NBR	O RING		
22		HEXAGON BOLT M6×15		
23	04:C42861A	GROUND SPRING		
24	07:4001032	WASHER		
25		NAT M3		
26	07:4001032	WASHER		
27	08:B31446B	DISPLAY SHEET FOR 4327A		
27	08:B31447B	DISPLAY SHEET FOR 4327B		
28	08:C42671	CAPACITY LABEL		
29	08:C42674A	KEY SHEET FOR 4327A		
29	08:C42676A	KEY SHEET FOR 4327B		
30				
31				
32	08:C42762	CAPACITY SHEEL		



AD-4327A/B

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NO.	PARTS NAME	DESCRIPTION
1	07:A21337A	BATTERY BOX
2	06:B47794A	BATTERY BOX SEAL
3	04:B47799	TWIN COIL SPRING
4	04:B47801A	COIL SPRING (-)
5	04:B47800A	COIL SPRING (+)
6	07:A10179B	LOWER CASE
7	04:B47787	BOOT RET PLATE
8	06:A38823	CABLE BOARD
9	08:B47788B	CAL SW SEAL
10	04:B47785A	CAL SW COVER
11	05:B46327B	SEALING SCREW-S
12	05:B47791A	SEALIG SCREW-L
13	06:B47793	CAP
14	06:C41946	BASE PACKING
15	07:B30985	TERMINAL CASE
16	PZ:2678	TERMINAL BOARD
17	10:SM-11	SCREW FOR ST-11
18	06:C41945-2	WATER RESIST PACKING
19	07:B30984A	TERMINAL COVER
20	10:GP-11	PACKING FOR ST-11
21	10:ST-11	WATER RESIST CABLE CLAMP
22		PAN HEAD TAPPING SCREW M3×10
23		TRUSS HEAD M4×10
24		PAN HEAD TAPPING SCREW M3×8
25	06:C40242	BATT BOX S/C SEAL
26		E RING M3
27	05:B47790	BATT BOX S/C

MEMORANDA

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