

**AD1682**

**Rechargeable  
Battery**

## **TECHNICAL INFORMATION**

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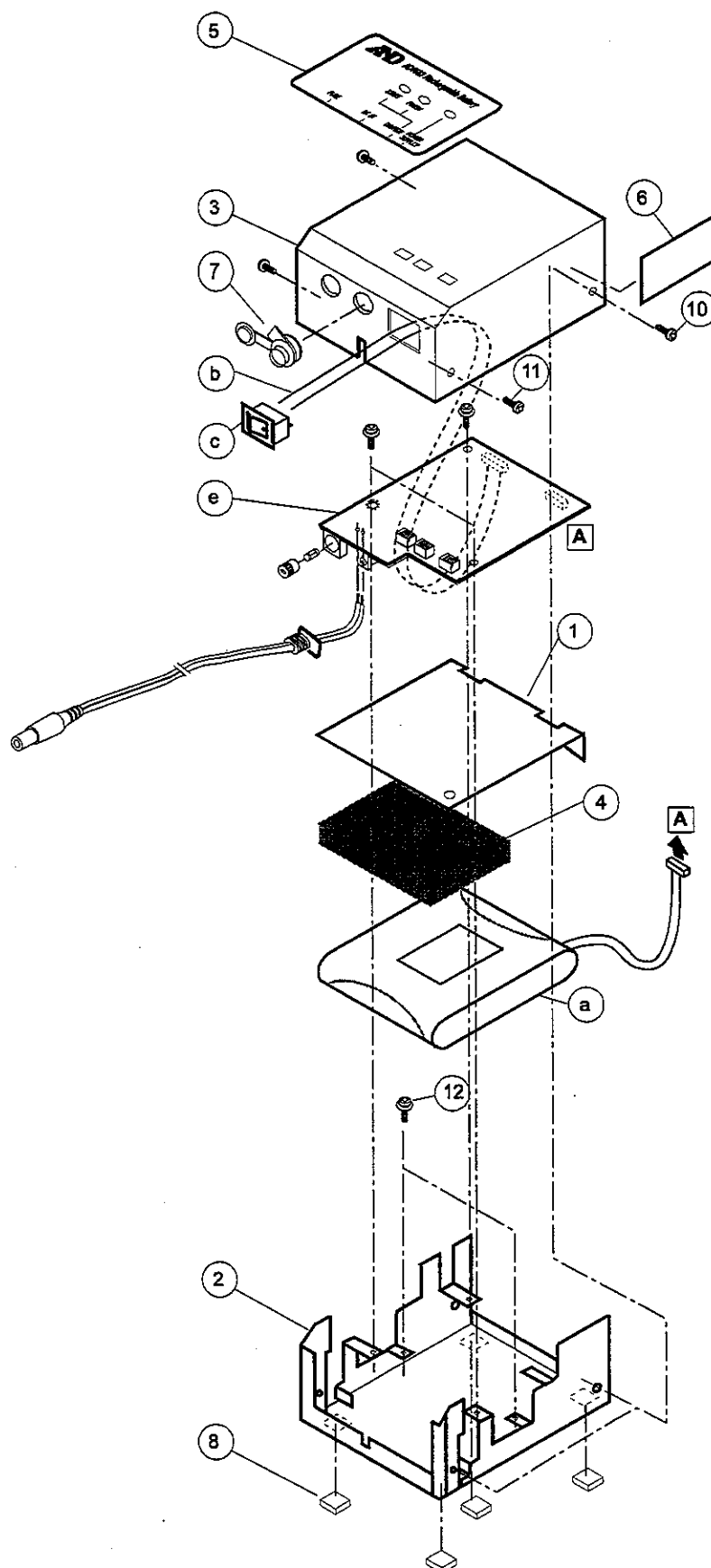
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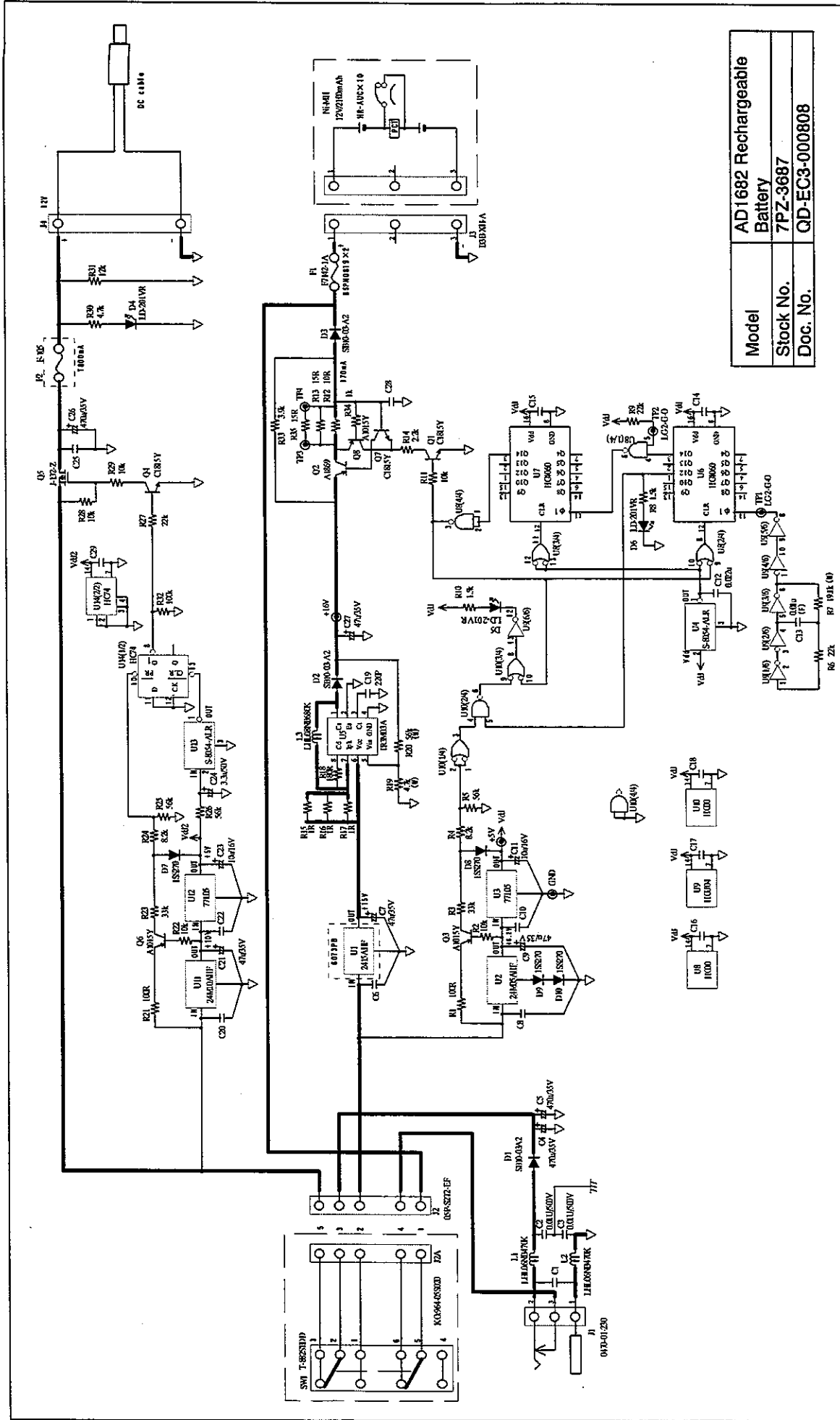
# 1. Exploded view



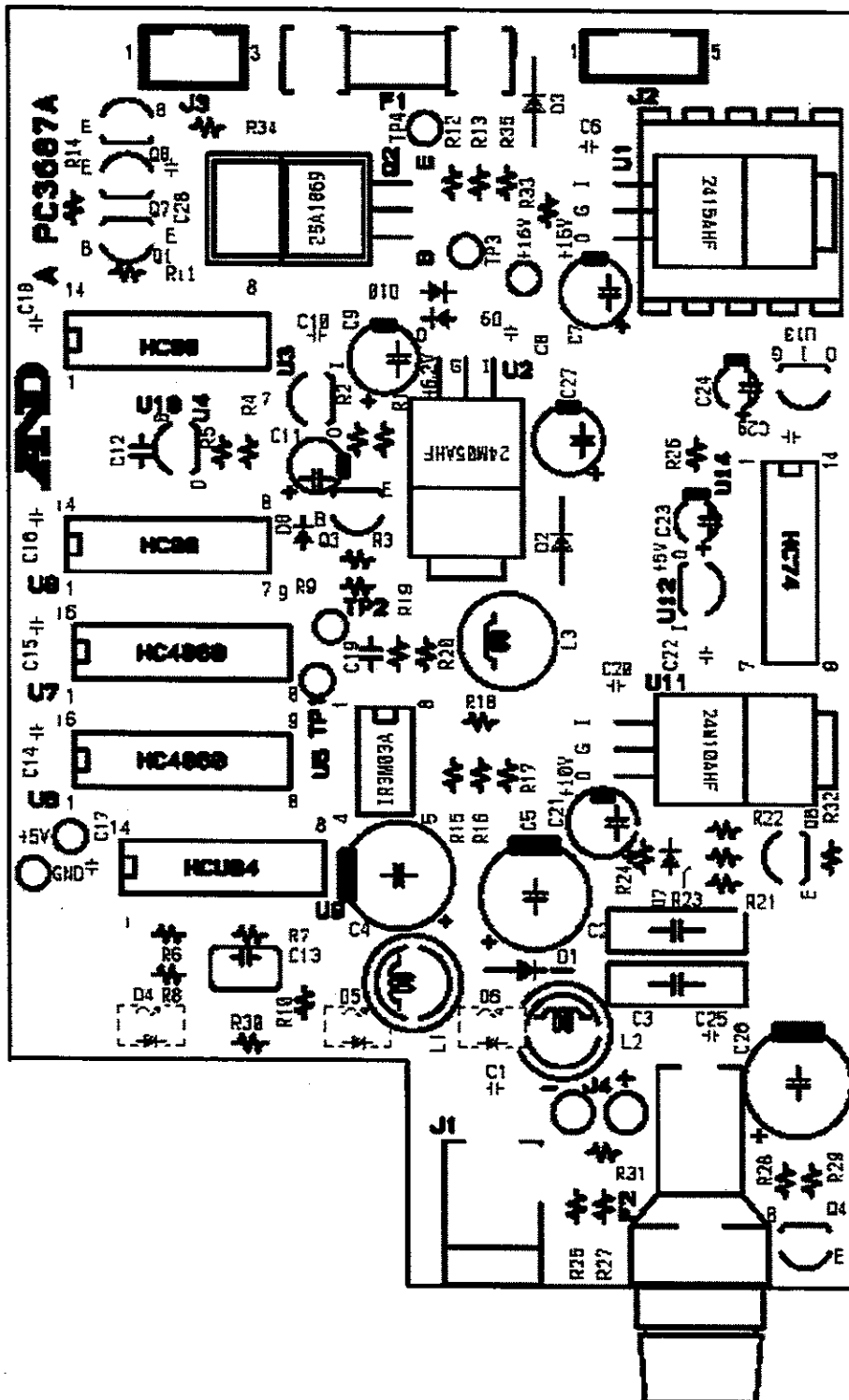
## Mechanical parts list

No.	Parts No.	Parts Name	QTY
1	04-4010377	Battery holding plate	1
2	04-3004474A	Lower case	1
3	04-3004475A	Upper case	1
4	06-4005820	Rubber cushion	1
5	08-4010378	Indicator label (English)	1
6	08-4010399	Caution label	1
7	06-4009518	Rubber cover	1
8	10-TM-166-7	Rubber foot	4
9	08-4010726	Serial Number label	1
10		Screw M3x6	3
11		Binding head screw M4x6	1
12		Screw with washers M4X8	2
a	EB-T10HR-AUC	Battery (Ni-MH)	1
b	KO-946-05S020	Cable	1
c	ST-T-882SBDD	Switch	1
d	KO-1976	DC-Cable	1
e	7PZ-3687	Battery board	1

## 2. Circuit diagram (7PZ-3687)



### 3. Parts layout (7PZ-3687)



## 4. Electronic parts list (7PZ-3687)

Symbol	Location	Part number	Description	QTY
U	1	UR-2415AHF	Voltage regulator	1
U	2	UR-24M05HF	Voltage regulator	1
U	3,12	UR-77L05T	Voltage regulator	2
U	11	UR-24M10HF	Voltage regulator	1
U	5	UR-IR3M03A	DC/DC converter	1
U	4,13	UA-S-8054ALR	Voltage comparator	2
U	6,7	UC-HC4060	Binary counter	2
U	8,10	UC-HC00	NAND	2
U	9	UC-HCU04	NOT	1
U	14	UC-HC74	D-FF	1
HT		HT-6073PB	Heat sink	1
Q	1,4,7	QT-C1815Y	Transistor	3
Q	2	QT-A1869	Transistor	1
Q	3,6,8	QT-A1015Y	Transistor	3
Q	5	QF-J132-Z	FET	1
D	1,2,3	DI-SB10-03A2	Shottky diode	3
D	4,5,6	DL-LD-201VR	LED	3
D	7,8,9,10	DI-1SS270	Diode	4
T		TM-LC-2-G-0	Test pin	2
F	1	FH-85PN0819	Fuse holder	2
		FS-F7142-1A	Fuse	1
F	2	FH-F-105	Fuse holder	1
		FS-218.800	Fuse	1
R	1,21	RC-NAT100R	Carbon resistor	2
R	2,22,28,29,11	RC-NAT10K	Carbon resistor	5
R	3,23	RC-NAT33K	Carbon resistor	2
R	5,25,26	RC-NAT56K	Carbon resistor	3
R	6,9,27	RC-NAT22K	Carbon resistor	3
R	8,10	RC-NAT1.5K	Carbon resistor	2
R	13,35	RC-NAT15R	Carbon resistor	1
R	15,16,17	RC-NAT1R	Carbon resistor	3
R	18	RC-NAT180R	Carbon resistor	1
R	4,24	RC-NAT8.2K	Carbon resistor	2
R	30	RC-NAT4.7K	Carbon resistor	1
R	12	RC-NAT10R	Carbon resistor	1
R	34	RC-NAT1K	Carbon resistor	1
R	32	RC-NAT100K	Carbon resistor	1
R	33	RC-NAT3.9K	Carbon resistor	1
R	14	RC-NAT2.2K	Carbon resistor	1
R	31	RC-NAT12K	Carbon resistor	1
R	19	RM-RNM4.7K	Metal foiled resistor	1
R	20	RM-RNM56KF	Metal foiled resistor	1
R	7	RM-RNM19.1KF	Metal foiled resistor	1
L	1,2,3	LL-LHL08NB680K	Inductor	3



Symbol	Location	Part number	Description	QTY
J	1	EJ-0470-01-230	Power jack	1
J	2	JI-05P-S2L2-EF	Connector	1
J	3	JT-B3B-XH-A	Connector	1
C	2,3	CC-0.01U500V	Ceramic capacitor	2
C	19	CC-220P	Ceramic capacitor	1
C	12	CC-0.022U	Ceramic capacitor	1
C	1,6,8,10,14,15,16,	CC-FK16Y5V1H104	Ceramic capacitor	14
C	27,7,9,21	CK-SME35VB47	Chemical Capacitor 47u/35V	4
C	11,23	CK-SME16VB10	Chemical Capacitor 10u/16V	2
C	4,5,26	CK-ECA1VM471	Chemical Capacitor 470u/35V	3
C	24	CK-SRA50VB-3.3	Chemical Capacitor 3.3u/50V	1
C	13	CM-5002103J1	Film Capacitor	1
SW	1	SW-T-882SBDD	Switch	1
		KO-964-05S020	Cable	1
		KO-1976	DC cable	1
		EB-T10HR-AUC	Ni-MH battery	1
P		PC-3687A	PCB	1

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