

Service Manual



Battery Charger
PB-6207

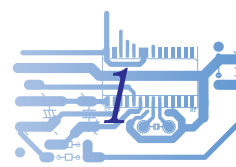
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SPECIFICATIONS

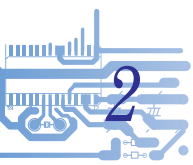
	PB-6207
Charge Complete Voltage	26.4V
Starting Current	3A MAX
Operation Temperature	-10°C ~ +40°C
Power Source	100–120VAC or 220–240VAC; 50/60Hz (Supplied AC mains transformer depends on country requirements)
Power Consumption	120W
Weight (SET)	6kg/13.2lb
Dimensions (SET)	482(W)x88(H)x280(D)mm/19(W)x3.5(H)x11(D)in

* Design and specification are subject to be changed for the improvement of product quality without pre notice.



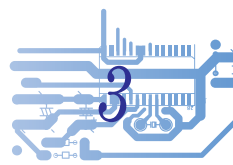
ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
PB-6207 MAIN			
D3	102470	"SD/MBR350,MBR350"	MBR350
Q1	102594	"NPN/2SC3856/INC,2SC3856"	2SC3856
D101	102656	"BD/PBU804,PBU 804"	PBU 804
IC103	102820	"7805/KIA/API-U,7805"	7805
IC1	102890	"LM723CN/2,LM723CN"	LM723CN
LS101-102	103338	"SG/BA56-11EWB,BA56-11"	BA56-11
THER1	103409	"10K/10T/-30~120C/NTC-103JYW-40,10K ohm"	10K ohm
R17 R21	104543	"R0.1J/3W/MO,0.1 3W"	0.1 3W
R105	104674	"R56J/3W/MO,56 3W"	56 3W
R103	104744	"R0.22J/5W/CE,0.22 5W"	0.22 5W
C106	105356	"EC470U35M/RD,470/35"	470/35
C301	105799	"CE4700P250M/AC,4700P250"	4700P250
AN302	107163	"02P/ASSY/7.92/107163,ASS'Y-02P"	ASS'Y-02P
AN152	109299	"06P/ASSY/2.5/107073,ASS'Y-06P"	ASS'Y-06P
AN1	109646	"02P/ASSY/2.5/109646,ASS'Y-02P"	ASS'Y-02P
CN101 CN104	110493	"02P/B3P-VH/7.92,B3PVH-02P"	B3PVH-02P
JTAG	111338	"10P/53014/2,53014-10P"	53014-10P
CN1	111342	"02P/LA-5268/2.5,LA5268-02P"	LA5268-02P
CN152	111346	"06P/LA-5268/2.5,LA5268-06P"	LA5268-06P
DEBUG	111361	"06P/LW-5267/2.5,LW5267-6P"	LW5267-6P
PIN301-302	111903	"TER/250/01V/111903,250T"	250T
SW301	112158	"PU/JPP011-97CAS34,JPP 1197CAS34"	JPP 1197CAS34
SW1	112233	"DP/KSP52H,KSP52H"	KSP52H
F2	112582	"20/1A/250V/T/KUCJ/112582,T1A/250V"	T1A/250V
BK1-2	113528	"BK/113528,Bracket"	Bracket
Q5-6	118640	"NPN/KRC107S/SOT23,KRC107S"	KRC107S
Q2	118658	"NPN/KRC113S/SOT23,KRC113S"	KRC113S
Q10-15	118661	"P/SI2305DS/SOT23,SI2305DS"	SI2305DS
U1	118763	"ATMEGA128/TQFP64P/2,ATmega128"	ATmega128
U2	119046	"7042AF/KIA/SOT89,KIA7042AF"	KIA7042AF
D11 D42	119171	"D/1N4148/SOT23,1N4148"	1N4148
D1	119175	"D/S1G/SMA,RECT S1G"	RECT S1G
BD2	119251	"120OHM/HB-1M2012-121JT/2012,120ohm"	120ohm
R22	119334	"R0J/2012,0"	0
R64	119352	"R100J/1608,100"	100
R14 R62 R142			
R162 R317	119366	"R10KJ/1608,10K"	10K
R11	119372	"R1MJ/1608,1M"	1M
R45-51 R144	119420	"R150J/2012,150"	150
R26	119498	"R22KJ/1608,22K"	22K
R106	119602	"R390J/2012,390"	390
R1-9 R18-19			
R27-30 R152	119616	"R47J/1608,47"	47
R10 R13 R67	119629	"R47KJ/1608,47K"	47K
R20	119639	"R4.7MJ/2012,4.7M"	4.7M
R99	119639	"R4.7MJ/2012,4.7M"	4.7M
R23	119656	"R5.1KJ/6432,5.1K"	5.1K
R145	119781	"R10KF/2012,10K 1%"	10K 1%
R12	119797	"R18KF/2012,18K 1%"	18K 1%
R25	119840	"R2KF/2012,2K 1%"	2K 1%
R44	119939	"R1.1KJ/1/8W/MF/2012,1.1K 1/8W"	1.1K 1/8W
R41	119989	"R16.5KF/MF/2012,16.5K 1%"	16.5K 1%
R43	120027	"R5.23KF/MF/2012,5.23K 1%"	5.23K 1%
R42	120048	"R698F/MF/2012,698 1%"	698 1%
R313	120089	"R10KJ/ARY8Y/SMD/2,10K"	10K
C66 C164	120127	"EC1U50M/RC,1/50"	1/50

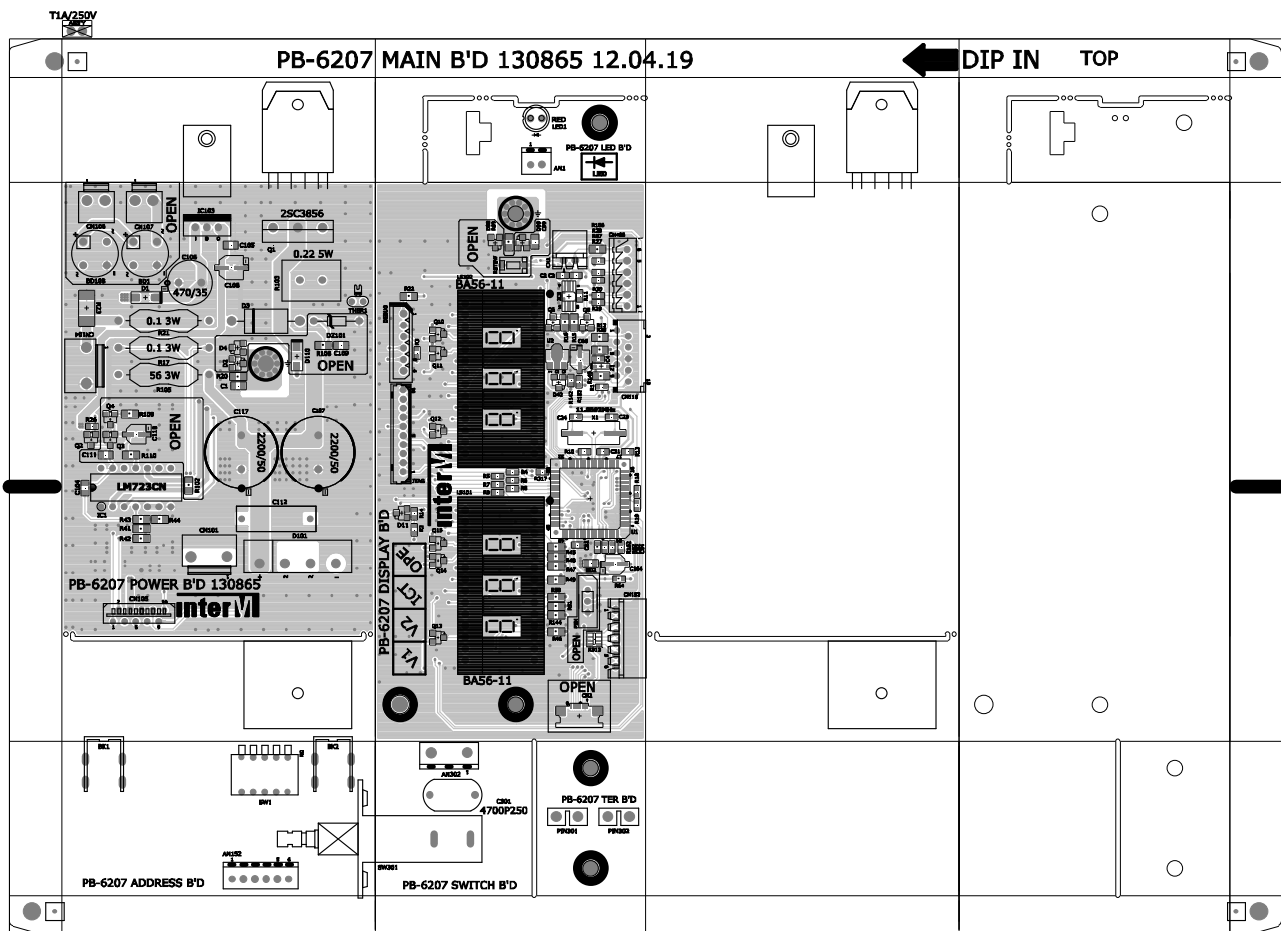


ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
C108	120144	"EC47U6.3M/RC,47/6.3"	47/6.3
C3-4 C21 C52 C62 C64	120246	"CE0.1U50Z/1608,0.1U"	0.1U
C105	120247	"CE0.1U50Z/2012,0.1U"	0.1U
C23-24	120367	"CE22P50J/1608,22P"	22P
C2	120390	"CE470P50J/1608,470P"	470P
C104	120391	"CE470P50J/2012,470P"	470P
X1	120478	"11.0592MHZ/HC-49S/SMD,11.0592MHz"	11.0592MHz
Z1	122227	"ZD/UZ5.1V/0.2W/USC,5.1V 0.2W"	5.1V 0.2W
C1	126495	"CE0.001U250J/2012,0.001U"	0.001U
C99	126495	"CE0.001U250J/2012,0.001U"	0.001U
C112	126710	"MA0.1U250M/AC,0.1/250(M)"	0.1/250(M)
CN105	128337	"10P/12511HS/1.25,12511HS-10P"	12511HS-10P
CN116	128338	"10P/FFC-SCB10/1.25,FFCSCB-10P"	FFCSCB-10P
IC5	129059	"LT6100/MSOP08P/2,LT6100"	LT6100
C107 C117	129086	"EC2200U50M/NHA,2200/50"	2200/50
LED1	129893	"LD/R/5T/LTL307E012A,LTL-307E-012A"	LTL-307E-012A
CN485	130934	"06P/ASSY/2.5/H/130934,ASS'Y-06P"	ASS'Y-06P
PB-6207 WIRING			
	109392	"CON ASS'Y,DS,1P,250T08,ST4.2,100MM"	CONNECTOR ASS'Y
	112582	"FUSE,20MM,T,1A,250V,K/U/CS/J"	FUSE
	103702	"TRANS,PW,EI,220V,AC25.6V,DC3.0A,PB-607"	TRANSFORMER(POWER)
	107162	"CON ASS'Y,DS,2P,VHR,R5.3,200MM"	CONNECTOR ASS'Y
	111736	"AC INLET,3P,250T(DAC-13)"	SOCKET



TOP & BOTTOM VIEW OF P.C BOARD



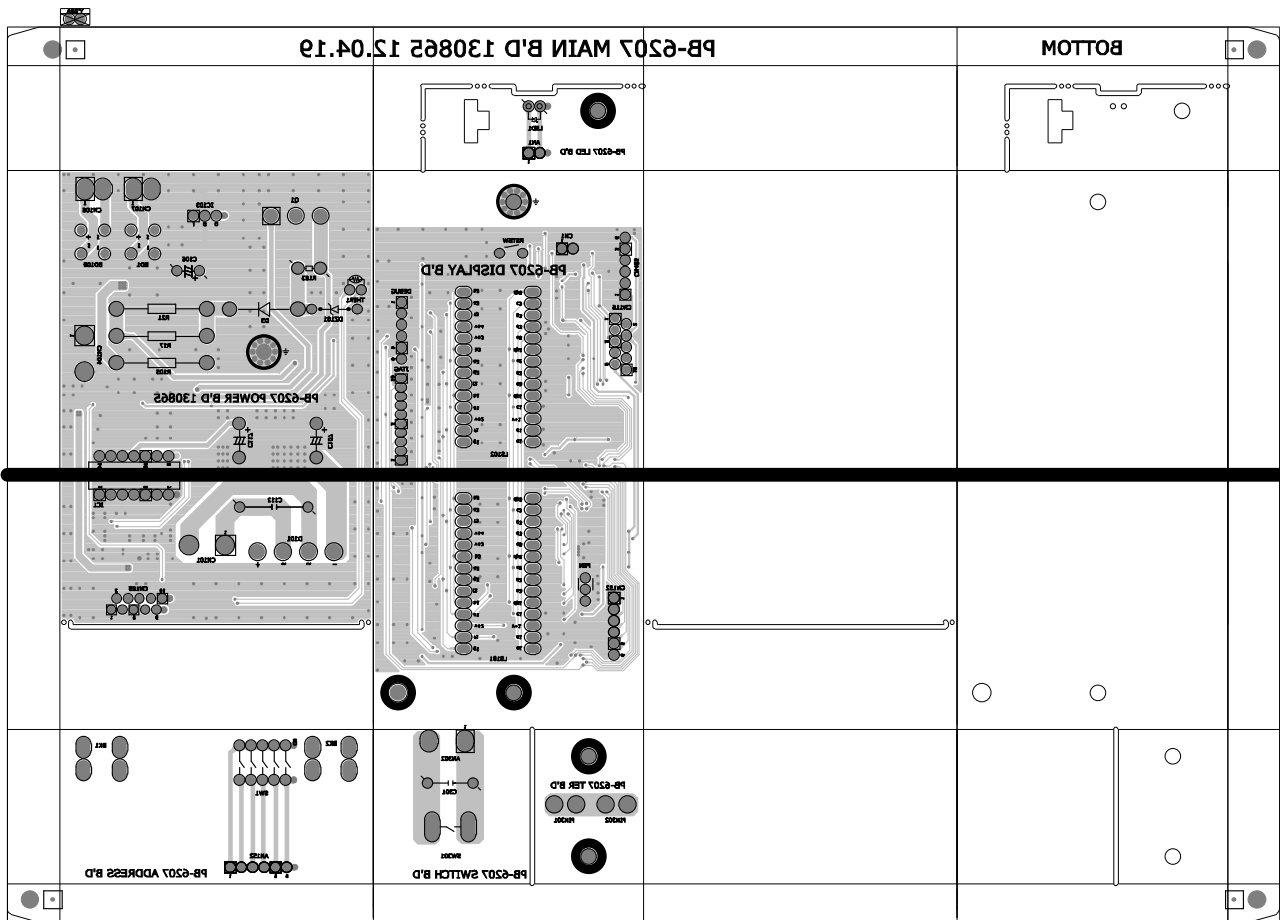
DESIGNER NAME	Shankar Top
MODEL	PB-6207
REV	1.0
SYSTEM NO	130865
TYPE	PC
Rev. No	1.0
DATE	2012-04-12
DESIGN	2012-04-12
CHKD	2012-04-12
APPROV	2012-04-12
THICKNESS	1.6 mm
LAYER	1 LAYERS
COPPER	1 OZ
PLATING	PC-Flux (FLUX)
DATE	2012-04-12
DRAWN	2012-04-12
TEL	02-2286-271
E-mail	shankar@inter-m.com
PCB Maker	SK Tech

interM
http://www.inter-m.com/

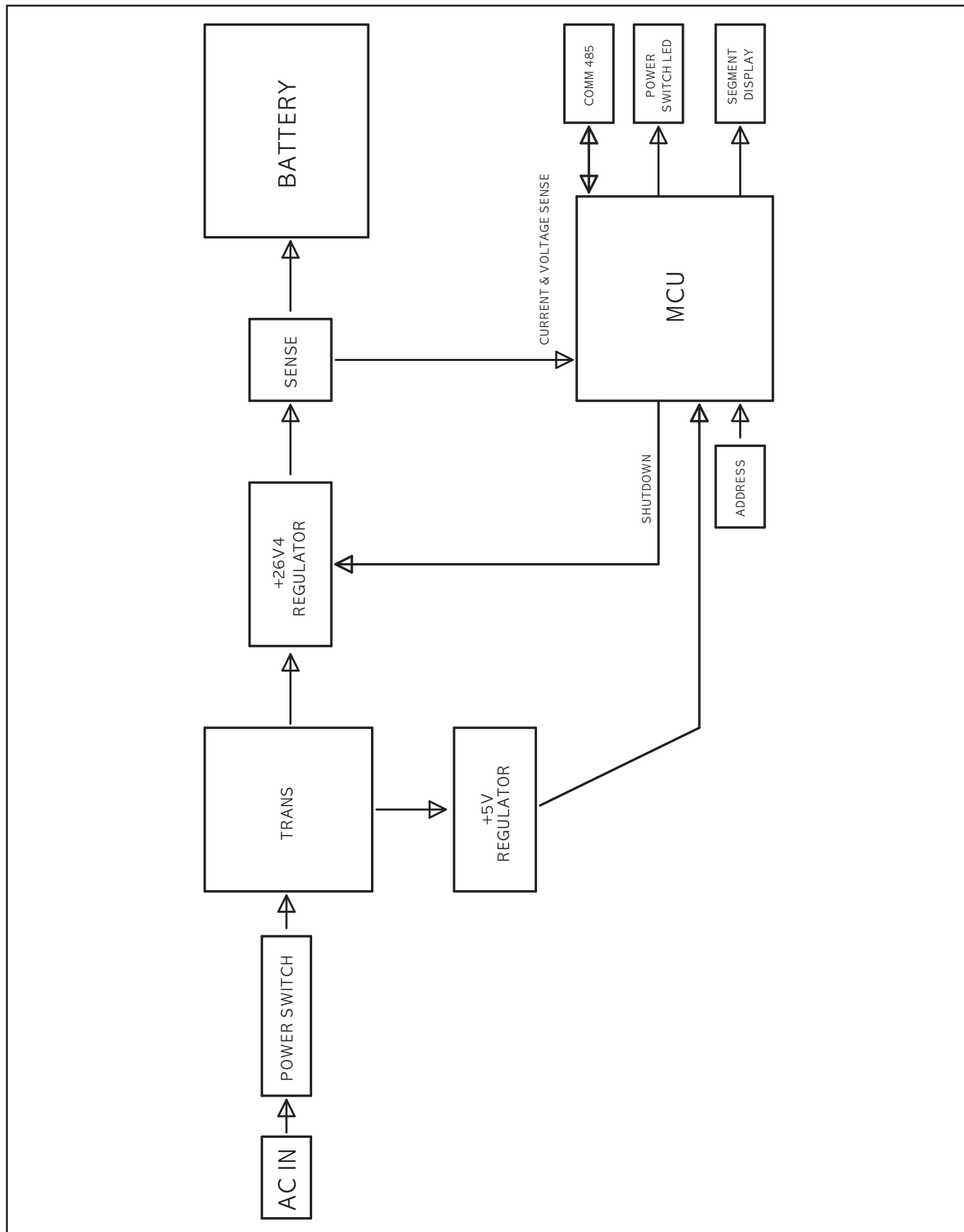
REVISION HISTORY

NO	REV	DATE	DESCRIPTION
1	1.0	2012-04-12	Rev. 1.0
2	1.1	2012-04-12	Rev. 1.1
3	1.2	2012-04-12	Rev. 1.2
4	1.3	2012-04-12	Rev. 1.3
5	1.4	2012-04-12	Rev. 1.4
6	1.5	2012-04-12	Rev. 1.5
7	1.6	2012-04-12	Rev. 1.6
8	1.7	2012-04-12	Rev. 1.7
9	1.8	2012-04-12	Rev. 1.8
10	1.9	2012-04-12	Rev. 1.9
11	2.0	2012-04-12	Rev. 2.0

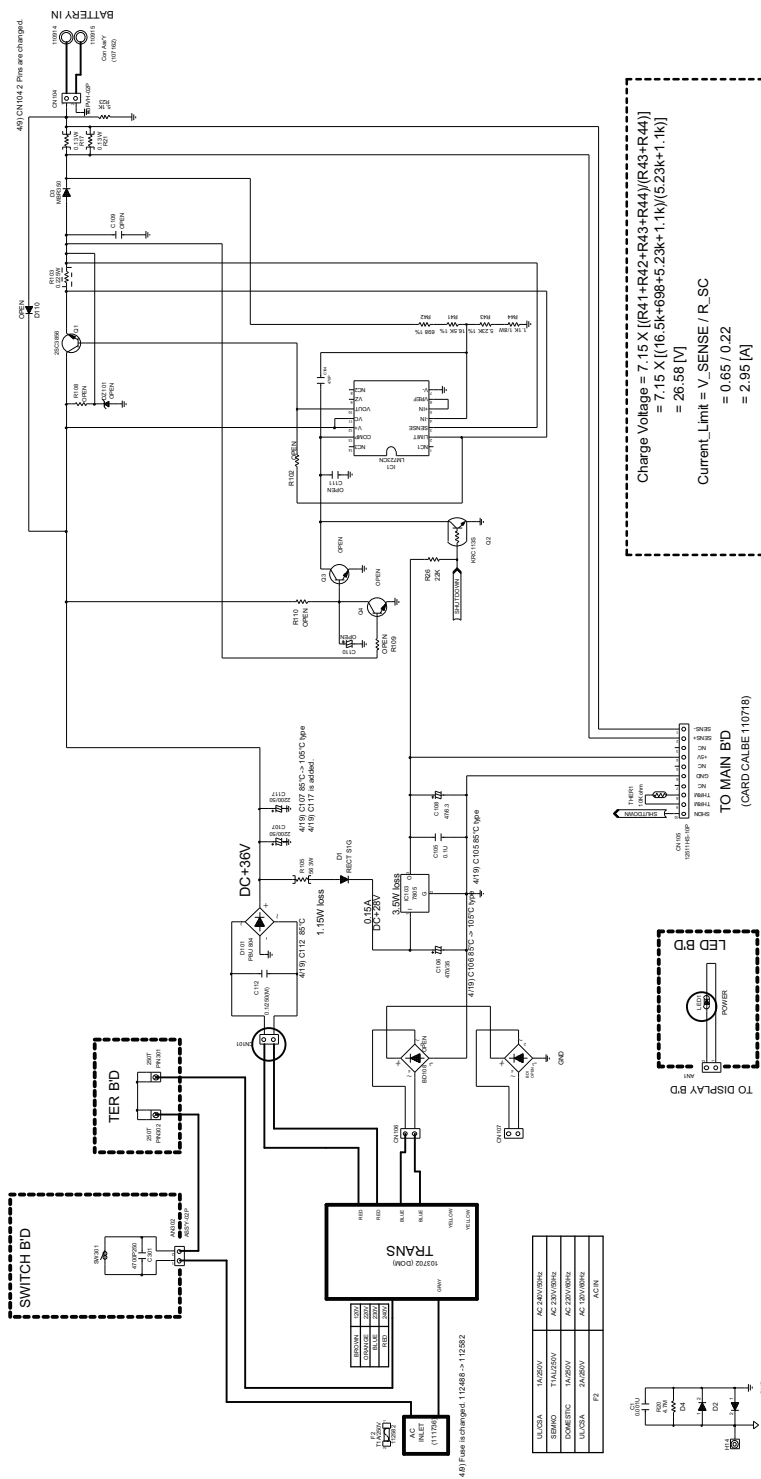
TOP & BOTTOM VIEW OF P.C BOARD

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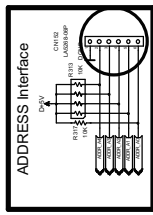
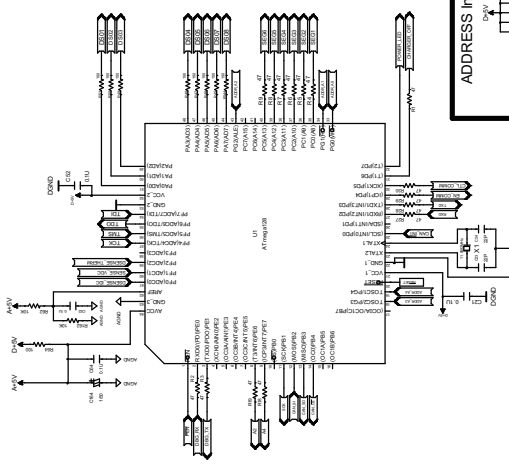
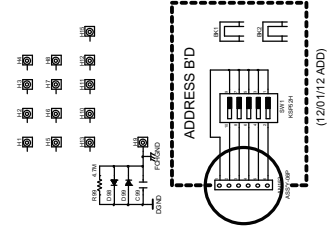
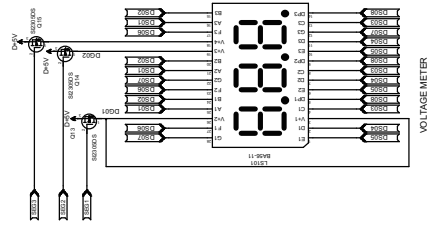
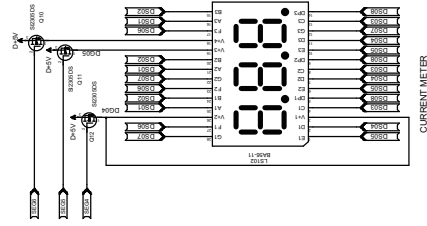
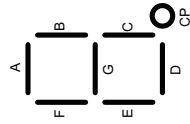
BLOCK DIAGRAM



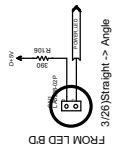
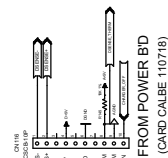
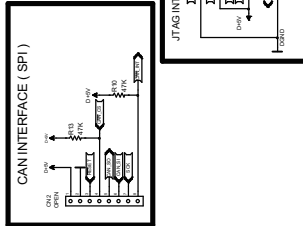
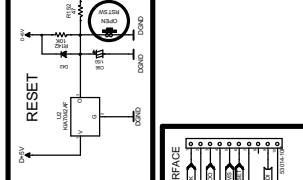
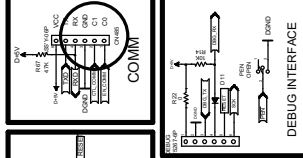
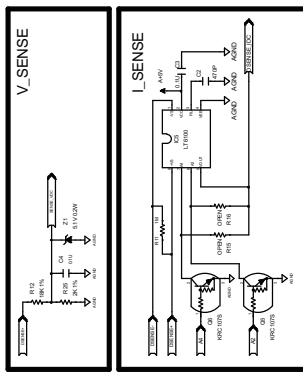
SCHEMATIC DIAGRAM



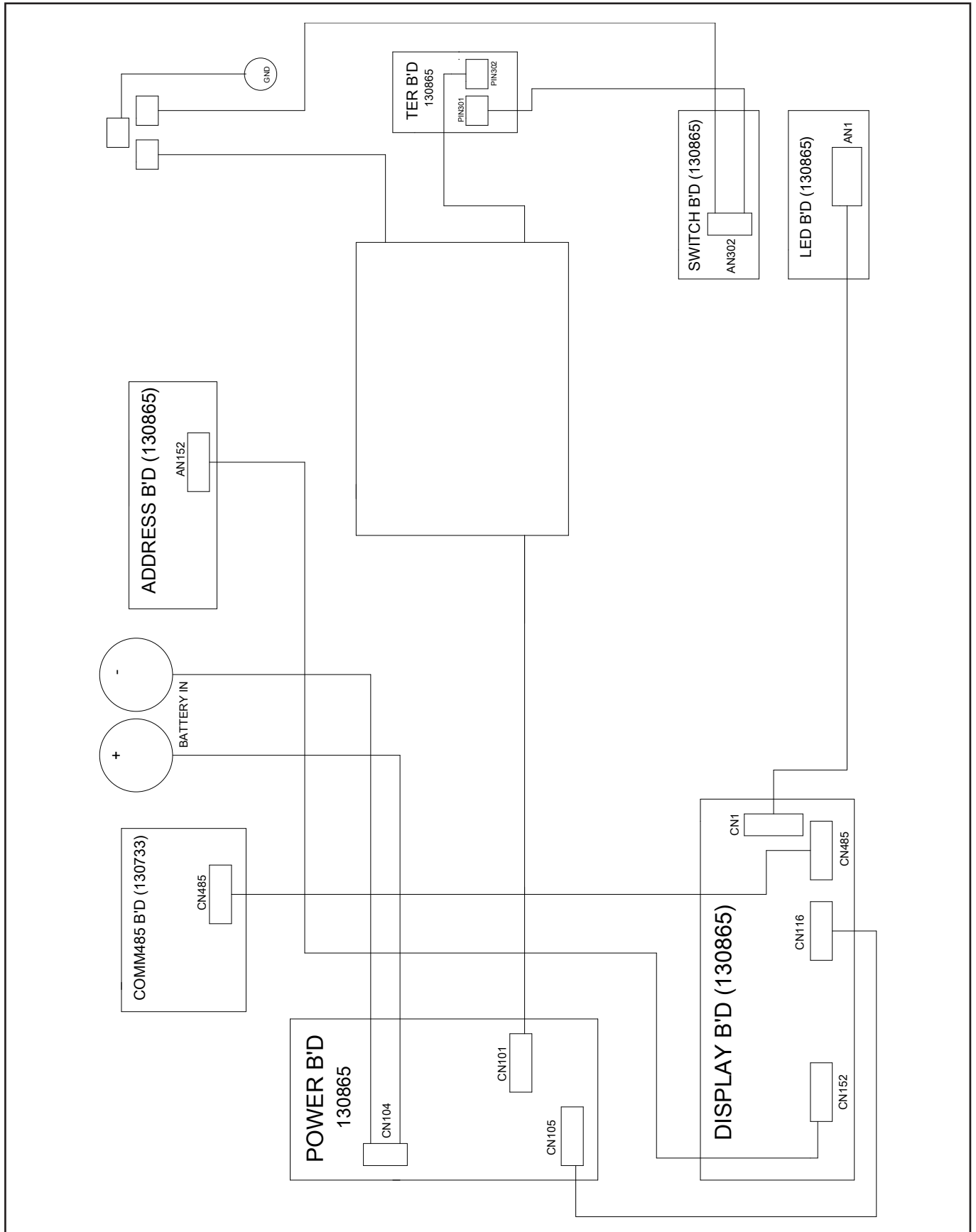
SCHEMATIC DIAGRAM



4/17) CN485 WAFER -> 130934

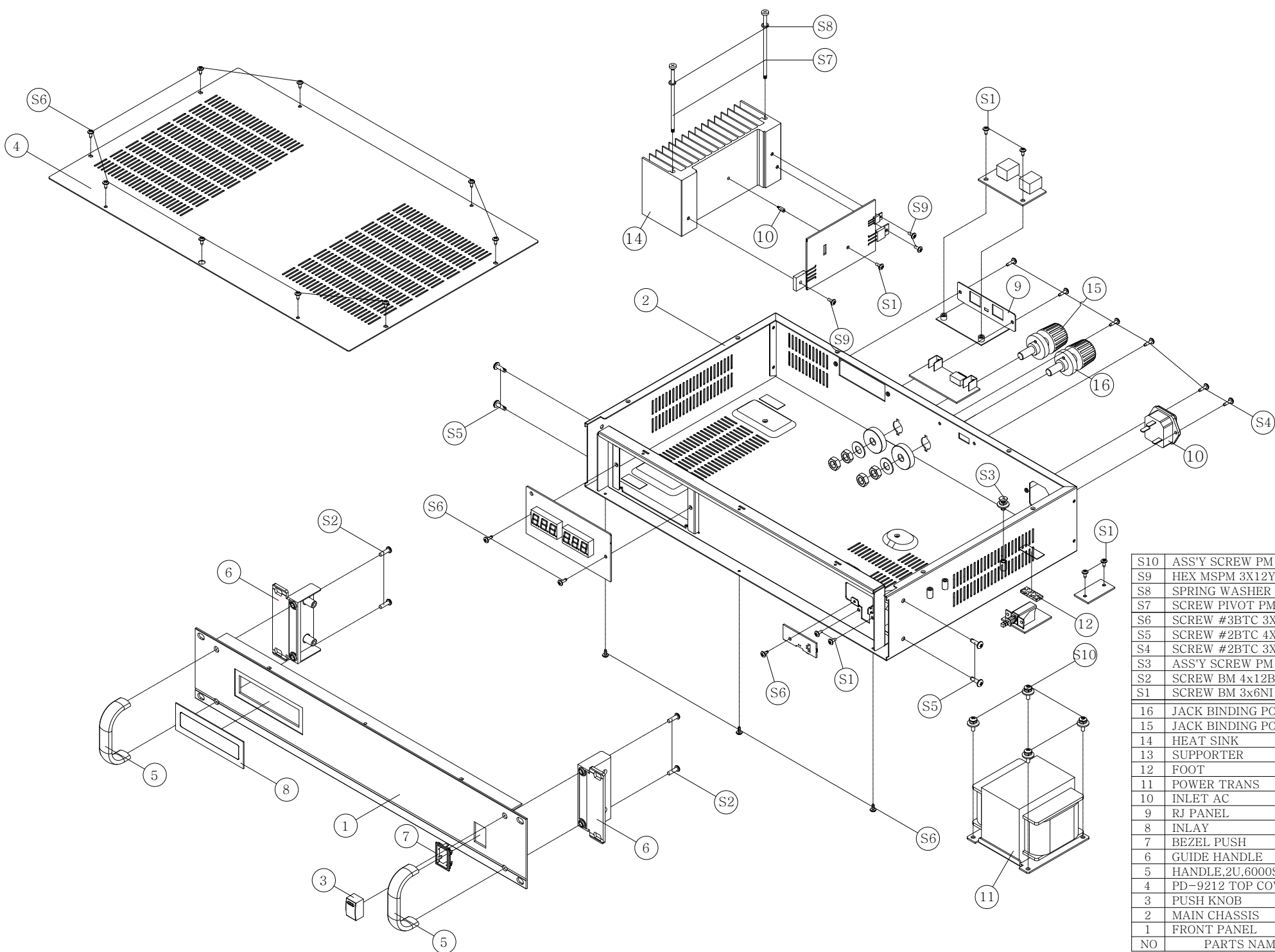


WIRING DIAGRAM



EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST

EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST



S10	ASS'Y SCREW PM 4*8B	114431	4
S9	HEX MSPM 3X12Y	114449	3
S8	SPRING WASHER Ø4	114630	2
S7	SCREW PIVOT PM 4X76Y	114444	2
S6	SCREW #3BTC 3X6B	114486	15
S5	SCREW #2BTC 4X12B	114477	4
S4	SCREW #2BTC 3X8B	114465	6
S3	ASS'Y SCREW PM 4x8N	114412	1
S2	SCREW BM 4x12B	114297	4
S1	SCREW BM 3x6NI	114281	7
16	JACK BINDING POST (RED)	110915	1
15	JACK BINDING POST (BLK)	110914	1
14	HEAT SINK	2000527	1
13	SUPPORTER	113652	1
12	FOOT	114114	2
11	POWER TRANS	103702	1
10	INLET AC	111736	1
9	RJ PANEL	129065	1
8	INLAY	101060	1
7	BEZEL PUSH	114705	8
6	GUIDE HANDLE	114879	2
5	HANDLE,2U,6000SERIES	127710	2
4	PD-9212 TOP COVER	100620	1
3	PUSH KNOB	114868	1
2	MAIN CHASSIS	134111	1
1	FRONT PANEL	2000983	1
NO	PARTS NAME	PARTS NUMBER	Q'TY

