

Circuit Diagram

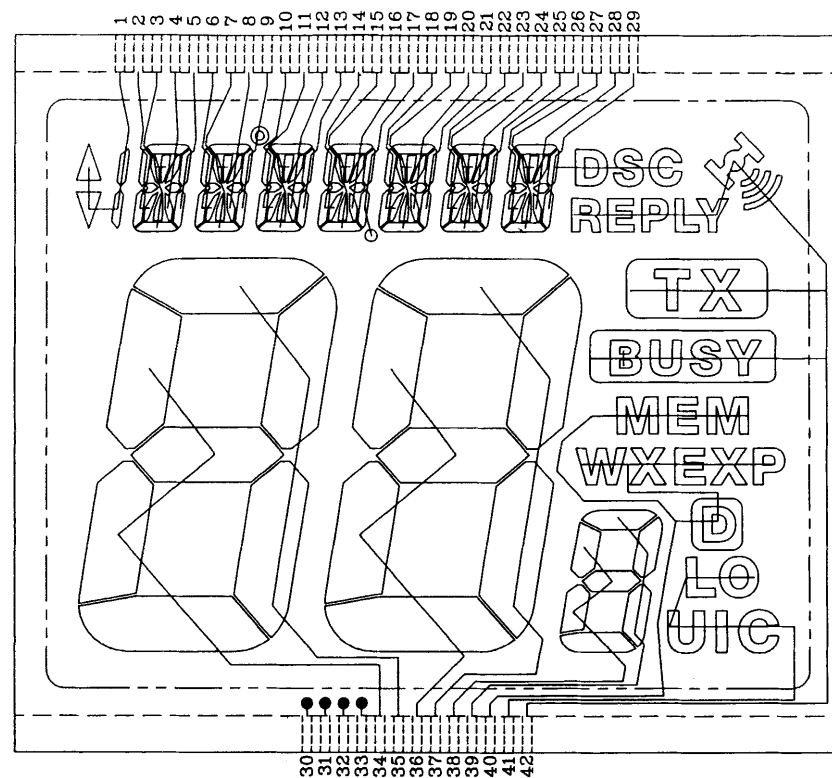


CNTL Unit (Lot. 3~)

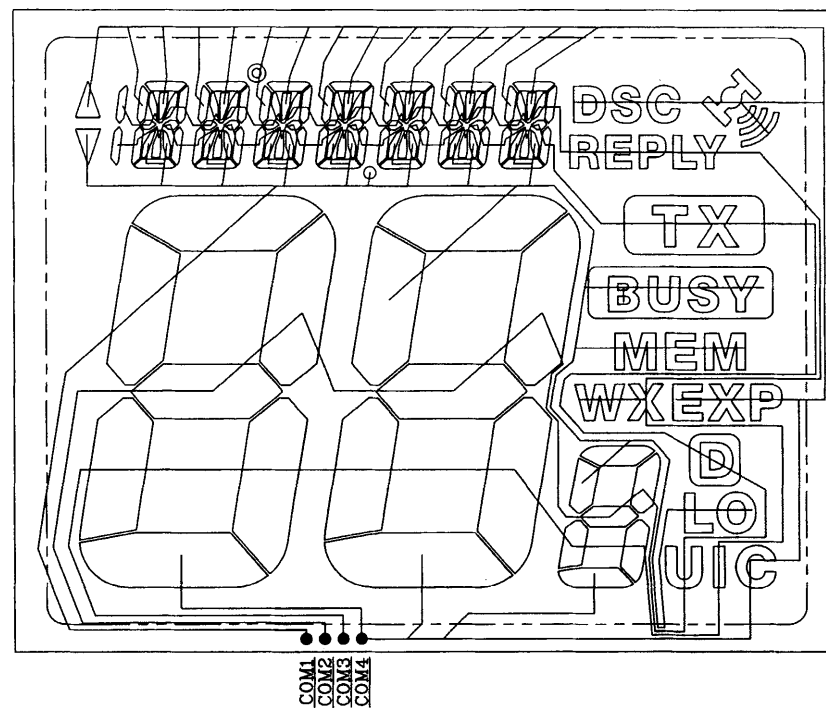
Note

CNTL Unit (Lot. 3~)

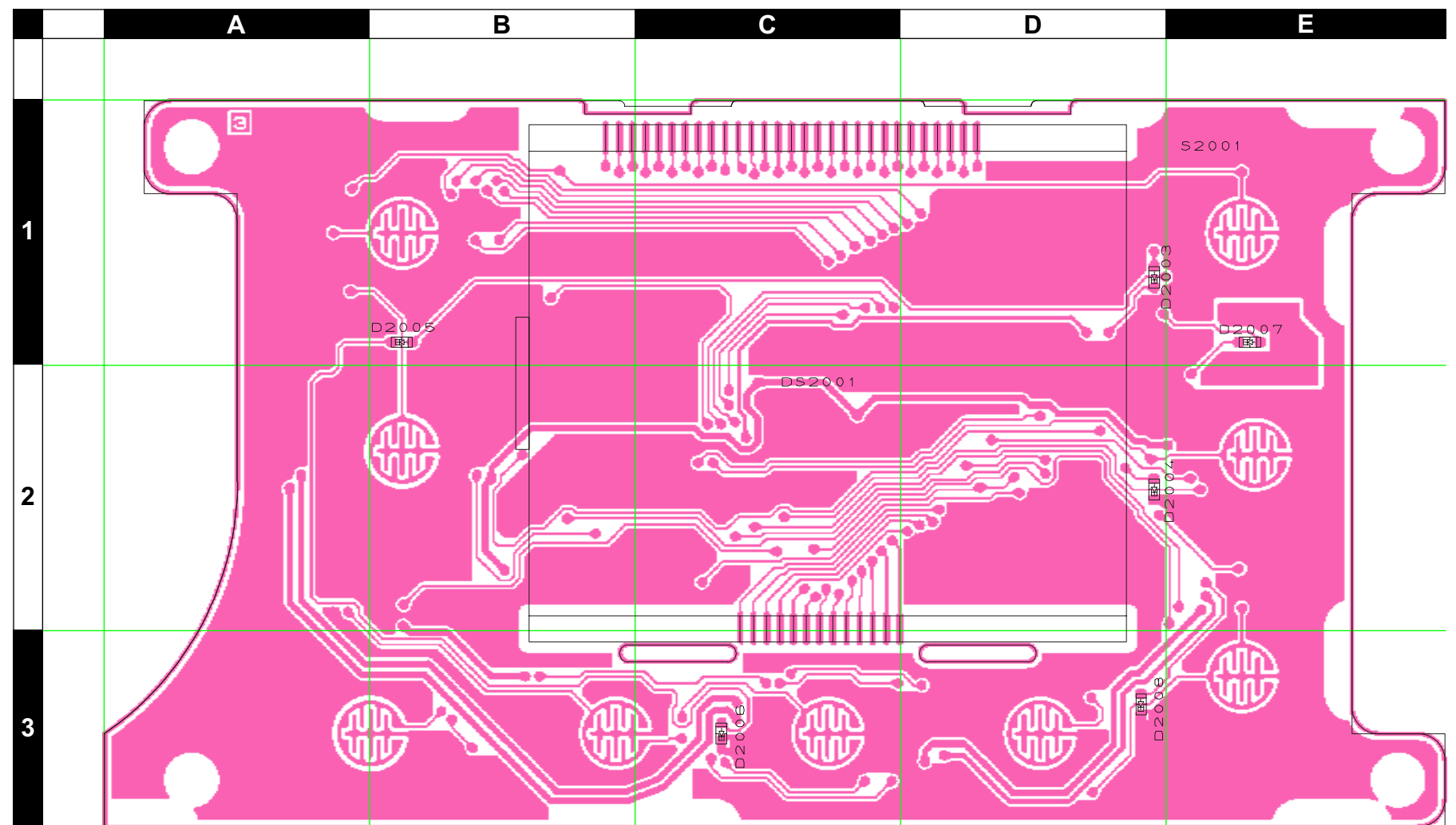
Parts Layout (Side A)



DS2001 SEGMENT

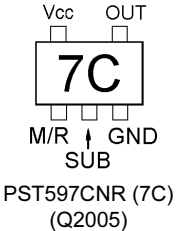
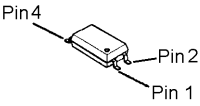
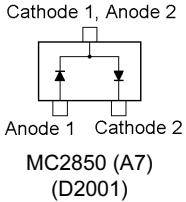
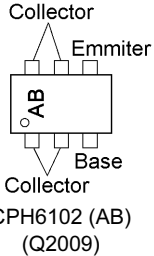
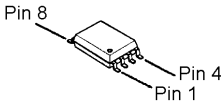
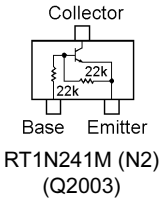
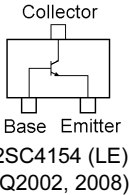
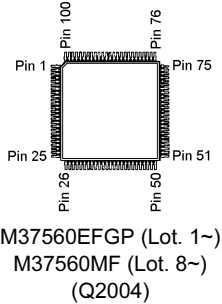
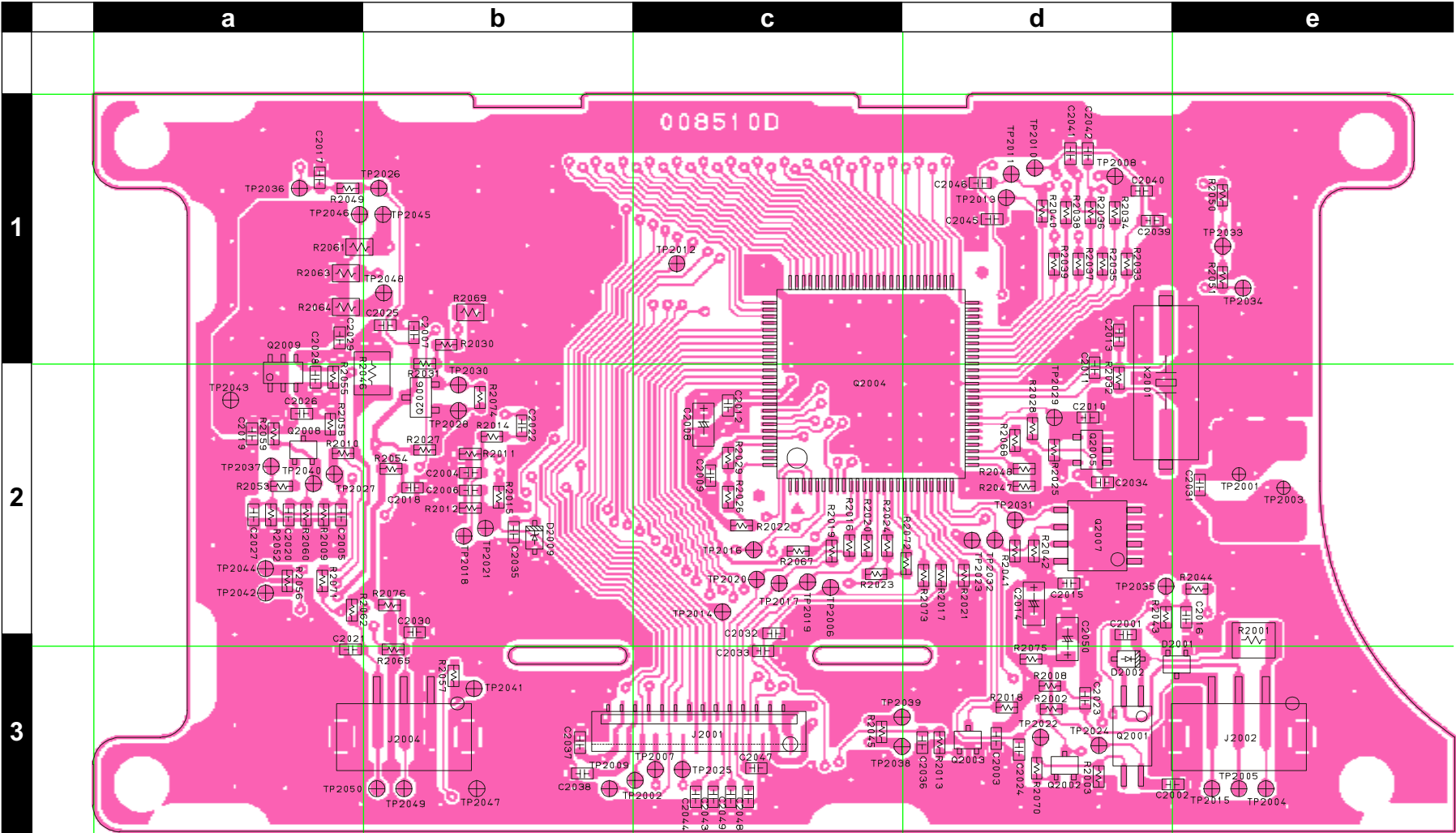


DS2001 COMMON



CNTL Unit (Lot. 3~)

Parts Layout (Side B)



REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
PCB with Components						CB2156001				
Printed Circuit Board						FR008510C		1-		
						FR008510D		3-		
C 2003	CHIP CAP.	0.001uF	50V	B	GRM39B102K50PT	K22174821		1-	B	d3
C 2005	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	a2
C 2007	CHIP CAP.	0.001uF	50V	B	GRM39B102K50PT	K22174821		1-	B	b1
C 2008	CHIP TA.CAP.	10uF	6.3V		TEMSVA0J106M-8R	K78080027		1-	B	c2
C 2009	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	c2
C 2010	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	B	d2
C 2011	CHIP CAP.	15pF	50V	CH	GRM39CH150J50PT	K22174215		1-	B	d2
C 2012	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	c2
C 2013	CHIP CAP.	15pF	50V	CH	GRM39CH150J50PT	K22174215		1-	B	d1
C 2014	CHIP TA.CAP.	10uF	6.3V		TEMSVA0J106M-8R	K78080027		1-	B	d2
C 2015	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	d2
C 2016	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	e2
C 2017	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	a1
C 2018	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	b2
C 2019	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	a2
C 2020	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	a2
C 2021	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	a3
C 2022	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	b2
C 2023	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	B	d3
C 2025	CHIP CAP.	0.1uF	25V	F	GRM39F104Z25PT	K22145001		1-	B	b1
C 2026	CHIP CAP.	0.01uF	50V	B	GRM39B103M50PT	K22174823		1-	B	a2
C 2030	CHIP CAP.	0.001uF	50V	B	GRM39B102K50PT	K22174821		1-	B	b2
C 2037	CHIP CAP.	0.001uF	25V	CH	GRM39CH102J25PT	K22144204		1-	B	b3
C 2038	CHIP CAP.	0.001uF	25V	CH	GRM39CH102J25PT	K22144204		1-	B	b3
C 2050	CHIP TA.CAP.	10uF	6.3V		TEMSVA0J106M-8R	K78080027		3-	B	d3
D 2001	DIODE				MC2850-T11-1	G2070704		1-	B	e3
D 2002	DIODE				1SS355 TE-17	G2070470		1-	B	d3
D 2003	LED				FY1111C-722-TR	G2070916		1-	A	D1
D 2004	LED				FY1111C-722-TR	G2070916		1-	A	D2
D 2005	LED				FY1111C-722-TR	G2070916		1-	A	B1
D 2006	LED				FY1111C-722-TR	G2070916		1-	A	C3
D 2007	LED				FY1111C-722-TR	G2070916		1-	A	E1
D 2008	LED				FY1111C-722-TR	G2070916		1-	A	D3
DS2001	LCD				J015004	G6090148		1-	A	C2
J 2001	CONNECTOR				28FLT-SM1-TB	P1091149		1-	B	c3
J 2002	CONNECTOR				B3B-PH-SM3-TB	P0091336		1-	B	e3
J 2004	CONNECTOR				B3B-PH-SM3-TB	P0091336		1-	B	b3
JP2001	WIRE ASSY				BLK 75 (3)/B4	T9318192		1-		
Q 2001	PHOTO COUPLER				TLP281(GB-TP)	G0090037		1-	B	d3
Q 2002	TRANSISTOR				2SC4154-T11-1E	G3341548E		1-	B	d3
Q 2003	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	B	d3
Q 2004	IC				M37560EFGP	✖		1-	B	c2
Q 2004	IC				M37560MF-319GP	G1093781		8-	B	c2
Q 2004	IC				M37560MF-321GP	G1093905		15-	B	c2
Q 2005	IC				PST597CNR	G1092589		1-	B	d2
Q 2007	IC				BR24C32F-E2	G1093517		1-	B	d2
Q 2007	IC				BR24L32F-WE2	G1093913		19-	B	d2
Q 2008	TRANSISTOR				2SC4154-T11-1E	G3341548E		1-	B	a2
Q 2009	TRANSISTOR				CPH6102-TL	G3070223		1-	B	a2
R 2001	CHIP RES.	330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	B	e3
R 2001	CHIP RES.	330	1/4W	5%	RMC1/4 331JATP	J24245331		3-	B	e3
R 2002	CHIP RES.	470	1/16W	5%	RMC1/16 471JATP	J24185471		1-	B	d3
R 2003	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	B	d3
R 2008	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	B	d3
R 2009	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	B	a2
R 2010	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	B	a2
R 2011	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	b2
R 2013	CHIP RES.	33k	1/16W	5%	RMC1/16 333JATP	J24185333		1-	B	d3
R 2014	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	B	b2
R 2015	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	b2
R 2016	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	c2
R 2017	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d2
R 2018	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	B	d3
R 2019	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	c2
R 2020	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	c2
R 2022	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	c2
R 2023	CHIP RES.	12k	1/16W	5%	RMC1/16 123JATP	J24185123		1-	B	c2
R 2024	CHIP RES.	15k	1/16W	5%	RMC1/16 153JATP	J24185153		1-	B	c2
R 2025	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	B	d2
R 2026	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	c2
R 2027	CHIP RES.	390	1/16W	5%	RMC1/16 391JATP	J24185391		1-	B	b2
R 2028	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d2
R 2029	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	c2

CNTL Unit

Parts List

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
R 2030	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-	B	b1
R 2033	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d1
R 2034	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d1
R 2035	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d1
R 2036	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d1
R 2037	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d1
R 2038	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d1
R 2039	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d1
R 2040	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d1
R 2041	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	B	d2
R 2042	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	B	d2
R 2043	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	d2
R 2044	CHIP RES.	6.8k	1/16W	5%	RMC1/16 682JATP	J24185682		1-	B	e2
R 2045	CHIP RES.	15k	1/16W	5%	RMC1/16 153JATP	J24185153		1-	B	c3
R 2046	CHIP RES.	39	1/4W	5%	RMC1/4 390JATP	J24245390		1-	B	b2
R 2047	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	B	d2
R 2048	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	B	d2
R 2049	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	a1
R 2050	CHIP RES.	6.8k	1/16W	5%	RMC1/16 682JATP	J24185682		1-	B	e1
R 2051	CHIP RES.	15k	1/16W	5%	RMC1/16 153JATP	J24185153		1-	B	e1
R 2052	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	B	a2
R 2053	CHIP RES.	470	1/16W	5%	RMC1/16 471JATP	J24185471		1-	B	a2
R 2054	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	b2
R 2055	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	B	a2
R 2056	CHIP RES.	6.8k	1/16W	5%	RMC1/16 682JATP	J24185682		1-	B	a2
R 2057	CHIP RES.	15k	1/16W	5%	RMC1/16 153JATP	J24185153		1-	B	b3
R 2058	CHIP RES.	470	1/16W	5%	RMC1/16 471JATP	J24185471		1-	B	a2
R 2059	CHIP RES.	220	1/16W	5%	RMC1/16 221JATP	J24185221		1-	B	a2
R 2060	CHIP RES.	470	1/16W	5%	RMC1/16 471JATP	J24185471		1-	B	a2
R 2061	CHIP RES.	120	1/10W	5%	RMC1/10T 121J	J24205121		1-	B	a1
R 2062	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	a2
R 2063	CHIP RES.	470	1/10W	5%	RMC1/10T 471J	J24205471		1-	B	a1
R 2064	CHIP RES.	470	1/10W	5%	RMC1/10T 471J	J24205471		1-	B	a1
R 2065	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	b3
R 2067	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	c2
R 2068	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	d2
R 2070	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	B	d3
R 2072	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	B	d2
R 2073	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		1-	B	d2
R 2074	CHIP RES.	0	1/10W	5%	RMC1/10T 000J	J24205000		1-	B	b2
R 2074	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		3-	B	b2
R 2075	CHIP RES.	100	1/16W	5%	RMC1/16 101JATP	J24185101		3-	B	d3
X 2001	XTAL SX-1319	9.8304MHz			9.8304MHZ	H0103272		1-	B	d2
	LIGHT GUIDE				(LCD)	RA0418600		1-		
	LCD HOLDER					RA0418800		1-		
	INTER CONNECTOR					RA0418900		1-		
	REFLECTOR SHEET				(A)	RA0449400		1-		
	REFLECTOR SHEET				(B)	RA0449500		1-		
	SPONGE RUBBER				(LCD HOLDER)	RA0464000		2-		