Service Schematics

Introduction

NOKIA 6650 FOLD

RM-400

Important:

This document is intended for use by authorized service centers only.

"Service Schematics" was created with focus on customer care.
The purpose of this document is to provide further technical repair information for NOKIA mobile phones on Level 3/4 service activities.
It contains additional information such as e.g. "Component finder".

Saving process time and improving the repair quality is the aim of this document.
It is to be used additionaly to the service manual and other training
or service information such as Service Bulletins.

While every endeavour has been made to ensure the accuracy of this document, some errors may exist. If the reader finds any errors, NOKIA should be notified in writing.

Please send E-Mail to: TrainingAndVendor.Development@nokia.com

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AVILMA, BETTY. Micro USB, Audio, SIM	2
RAPIDOYAWE, Combo memory & SD-Card	3
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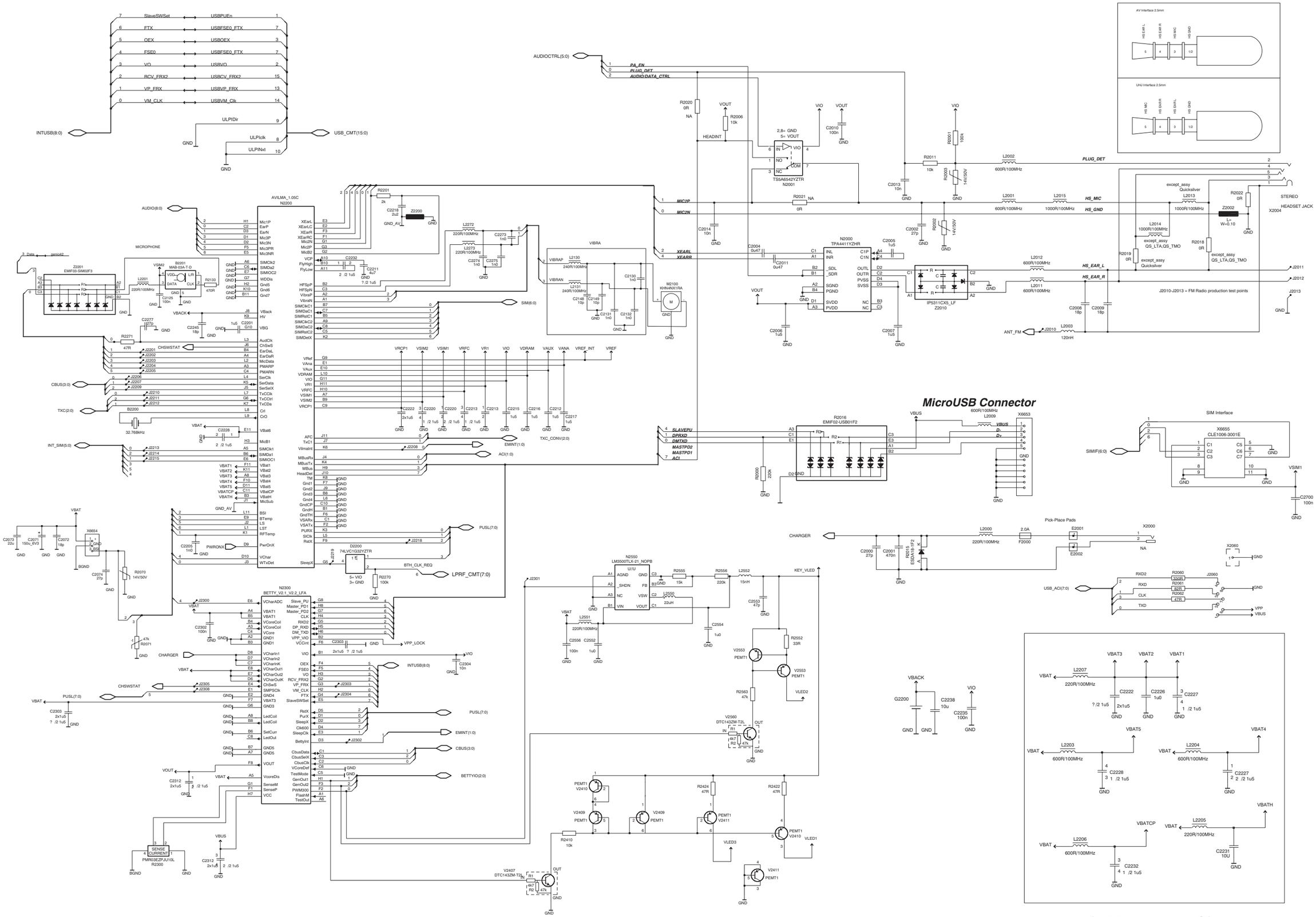

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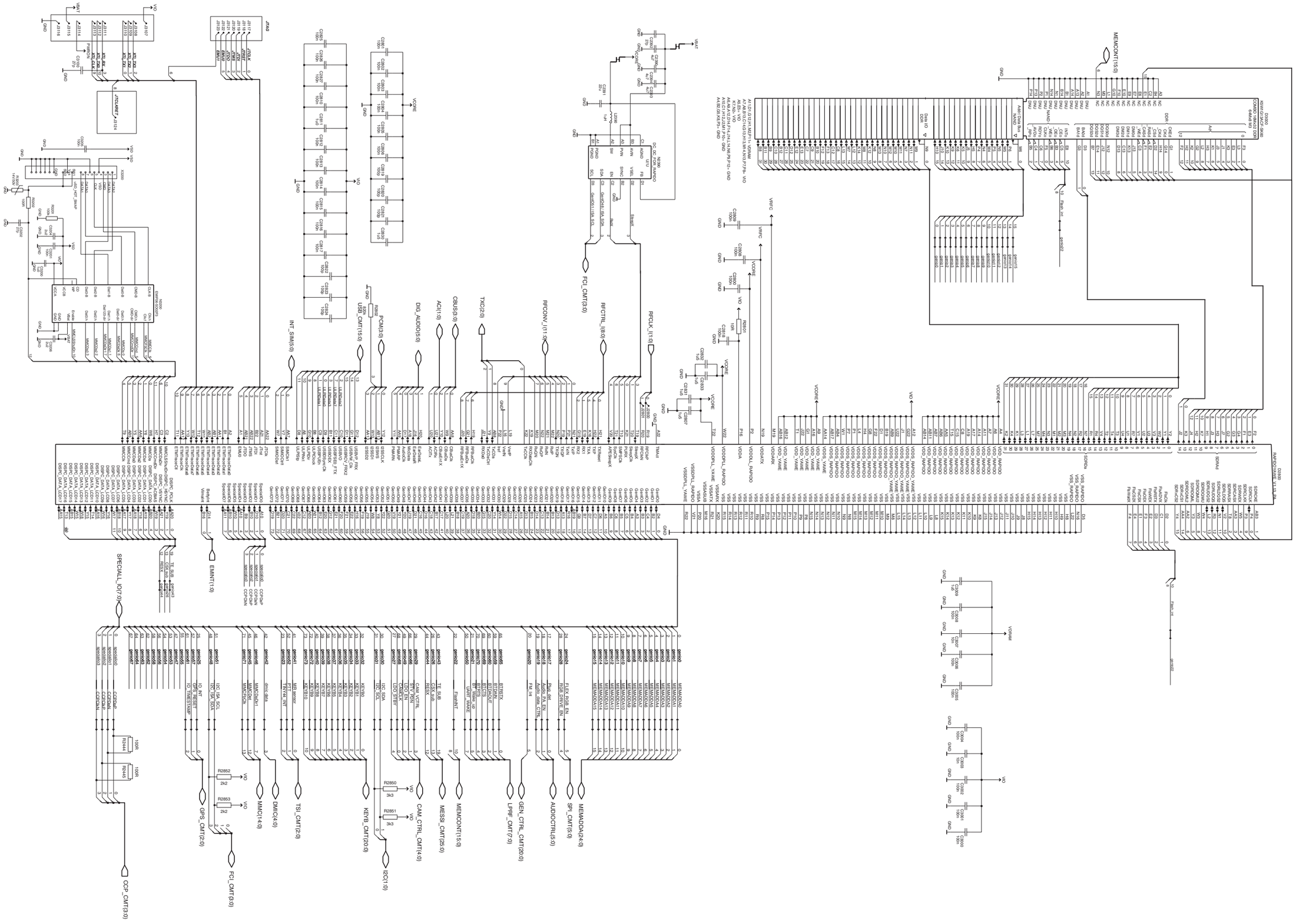
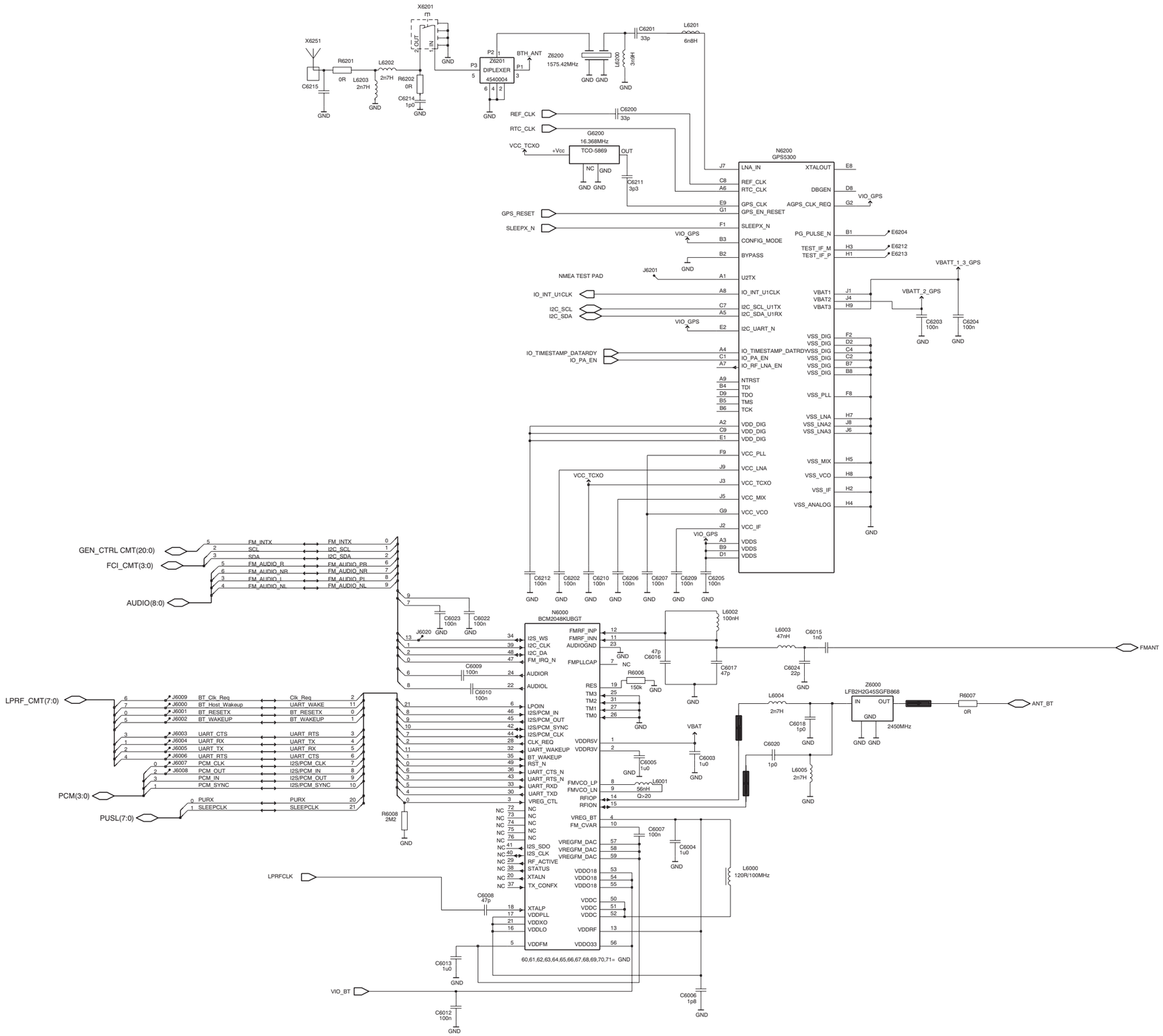

MEMCONT(15:0)
JTAG
VBAT
VIO
VCORE
VDRAM
FCI_CMT(3:0)
RFCTRL_(8:0)
RFCLK_(1:0)
RFCONV_(11:0)
TXC(2:0)
CBUS(5:0)
AC(1:0)
DIG_AUDIO(5:0)
PCM(3:0)
USB_CMT(15:0)
INT_SIM(5:0)
SPECIAL_IO(7:0)
EMINT(1:0)
MMC(14:0)
DMI(4:0)
TSI_CMT(2:0)
KEYB_CMT(20:0)
I2C(1:0)
CAM_CTRL_CMT(4:0)
MESSI_CMT(25:0)
MEMCONT(15:0)
LPRF_CMT(7:0)
GEN_CTRL_CMT(20:0)
AUDIOCTRL(5:0)
SPI_CMT(5:0)
MEMADDA(24:0)
GPS_CMT(2:0)
FCI_CMT(3:0)
CCP_CMT(3:0)
R2852
2k2
R2853
2k2
R2850
3k3
R2851
3k3



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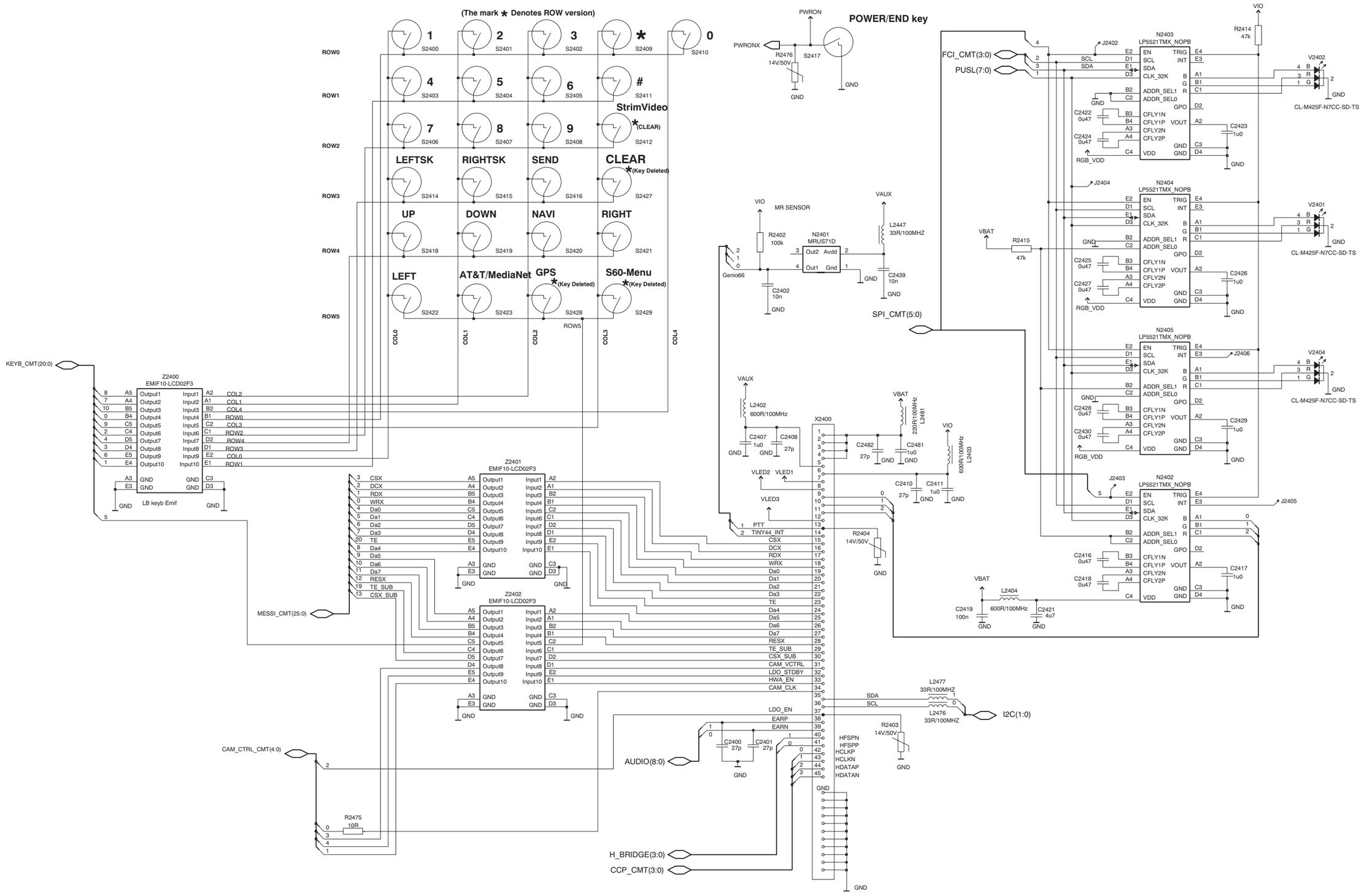
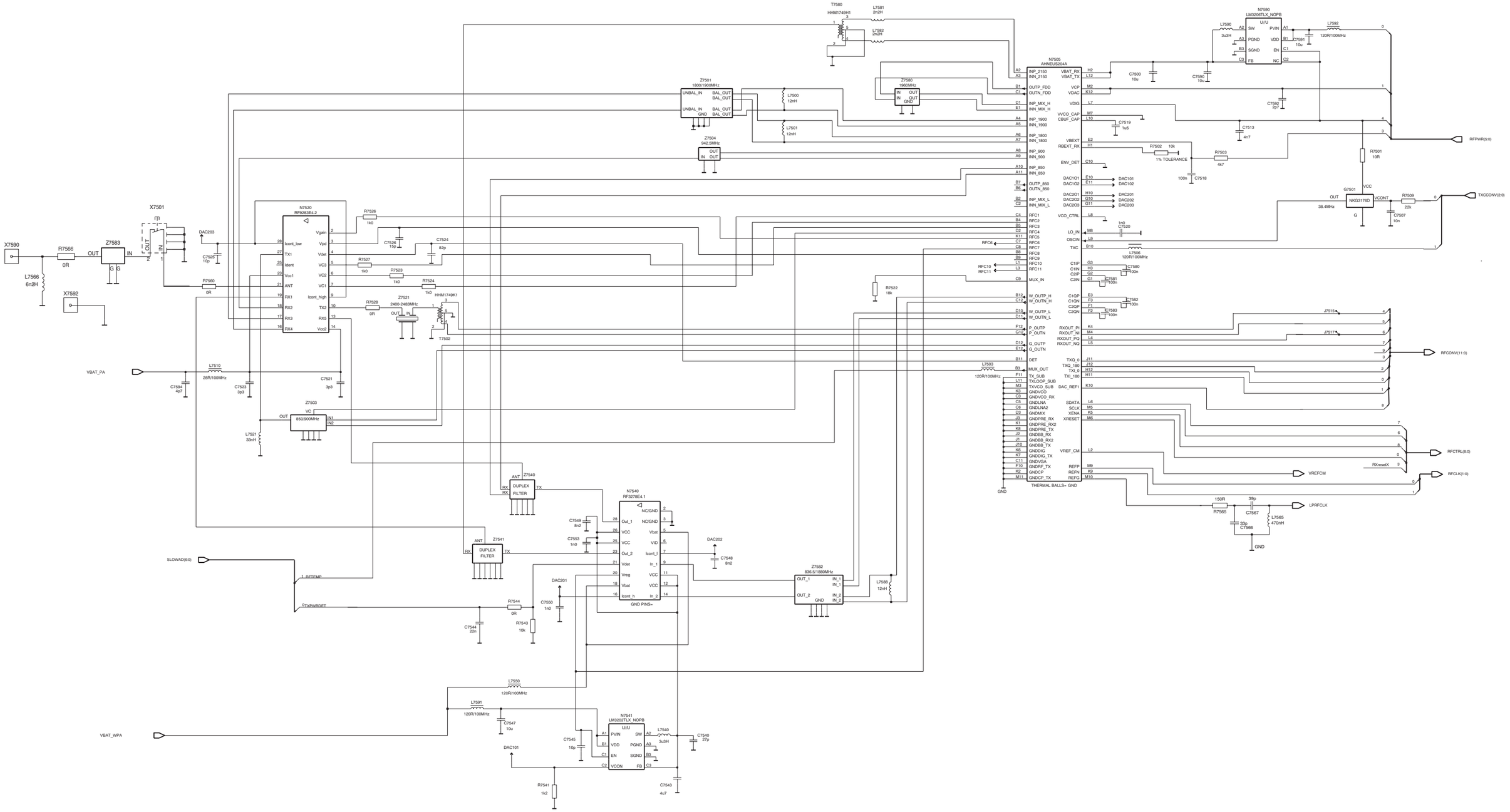
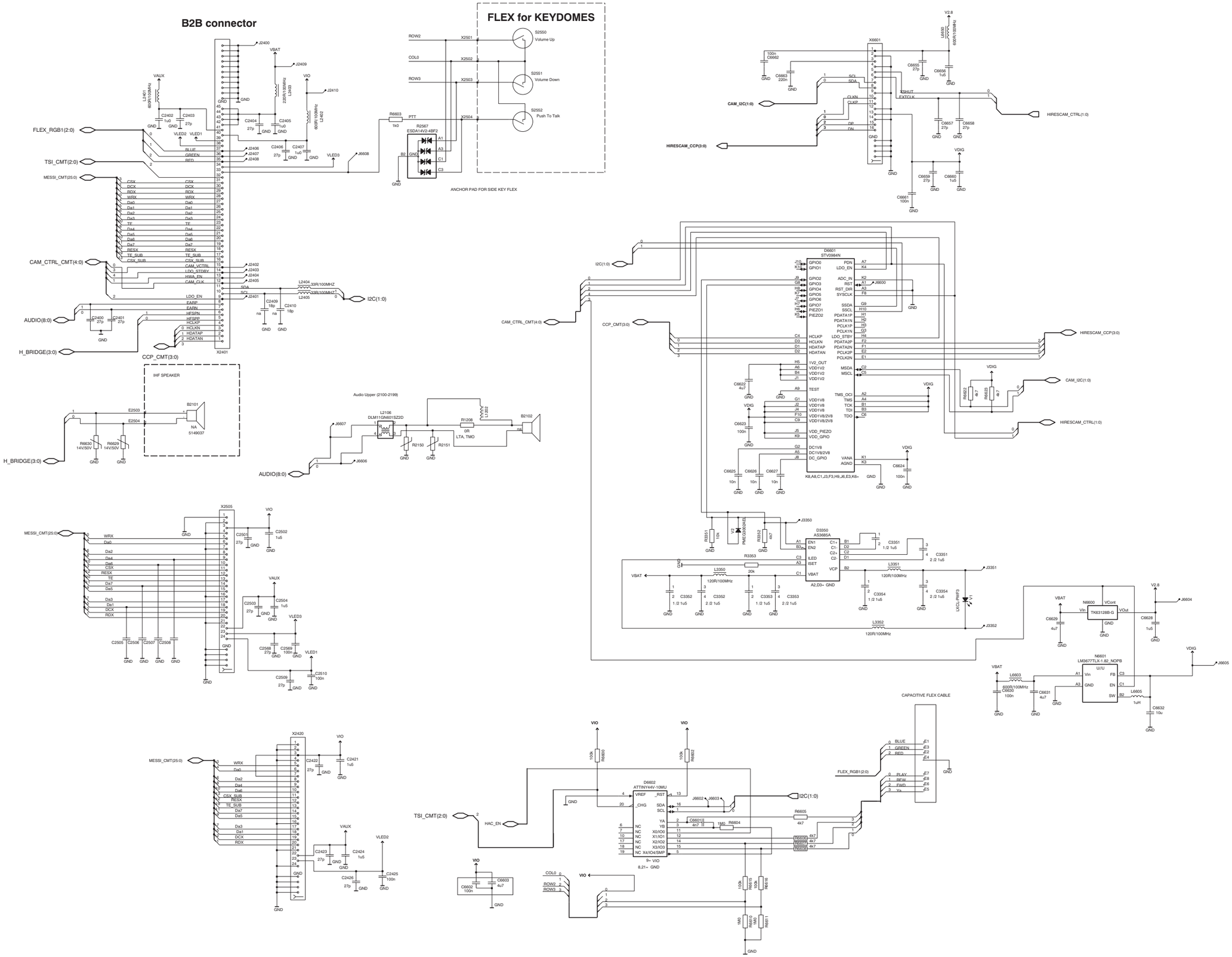

(The mark * Denotes ROW version)
POWER/END key
PWRON
PWRONX
R2476
14V/50V
S2417
GND
ROW0
ROW1
ROW2
ROW3
ROW4
ROW5
1 S2400
2 S2401
3 S2402
* S2409
0 S2410
4 S2403
5 S2404
6 S2405
S2411
7 S2406
8 S2407
9 S2408
StrimVideo
*(CLEAR)
S2412
LEFTSK S2414
RIGHTSK S2415
SEND S2416
CLEAR
*(Key Deleted)
S2427
UP S2418
DOWN S2419
NAVI S2420
RIGHT S2421
LEFT S2422
AT&T/MediaNet S2423
GPS
*(Key Deleted)
S2428
S60-Menu
*(Key Deleted)
S2429
COL0
COL1
COL2
COL3
COL4
ROW5
KEYB_CMT(20:0)
Z2400
EMIF10-LCD02F3
LB keyb Emif
Z2401
EMIF10-LCD02F3
Z2402
EMIF10-LCD02F3
MESSI_CMT(25:0)
CAM_CTRL_CMT(4:0)
R2475
10R
VIO
MR SENSOR
R2402
100k
N2401
MRUS71D
Genio66
C2402
10n
VAUX
L2447
33R/100MHZ
C2439
10n
SPI_CMT(5:0)
FCI_CMT(3:0)
PUSL(7:0)
J2402
N2403
LP5521TMX_NOPB
R2414
47k
V2402
CL-M425F-N7CC-SD-TS
C2422
0u47
C2424
0u47
C2423
1u0
RGB_VDD
J2404
N2404
LP5521TMX_NOPB
V2401
VBAT
R2415
47k
C2425
0u47
C2427
0u47
C2426
1u0
N2405
LP5521TMX_NOPB
J2406
V2404
C2428
0u47
C2430
0u47
C2429
1u0
J2403
N2402
LP5521TMX_NOPB
J2405
C2416
0u47
C2418
0u47
C2417
1u0
L2404
600R/100MHz
C2419
100n
C2421
4u7
L2402
600R/100MHz
C2407
1u0
C2408
27p
X2400
C2482
27p
C2481
1u0
220R/100MHz
L2481
600R/100MHz
L2403
C2410
27p
C2411
1u0
VLED2
VLED1
VLED3
PTT
TINY44_INT
R2404
14V/50V
CSX
DCX
RDX
WRX
Da0
Da1
Da2
Da3
TE
Da4
Da5
Da6
Da7
RESX
TE_SUB
CSX_SUB
CAM_VCTRL
LDO_STDBY
HWA_EN
CAM_CLK
LDO_EN
EARP
EARN
SDA
SCL
L2477
33R/100MHZ
L2476
33R/100MHZ
I2C(1:0)
R2403
14V/50V
C2400
27p
C2401
27p
AUDIO(8:0)
HFSPN
HFSPP
HCLKP
HCLKN
HDATAP
HDATAN
H_BRIDGE(3:0)
CCP_CMT(3:0)


N7505
AHNEUS204A
N7520
RF9283E4.2
N7540
RF3278E4.1
N7590
LM3206TLX_NOPB
N7541
LM3202TLX_NOPB
Z7501
1800/1900MHz
Z7504
942.5MHz
Z7580
1960MHz
T7580
HHM1749H1
Z7582
836.5/1880MHz
Z7503
850/900MHz
Z7521
2400-2483MHz
Z7540
Z7541
DUPLEX FILTER
G7501
NKG3176D
38.4MHz
X7501
X7590
X7592
Z7583
RFPWR(5:0)
TXCCONV(2:0)
RFCONV(11:0)
RFCTRL(8:0)
RFCLK(1:0)
VREFCM
LPRFCLK
VBAT_PA
VBAT_WPA
SLOWAD(8:0)
THERMAL BALLS= GND



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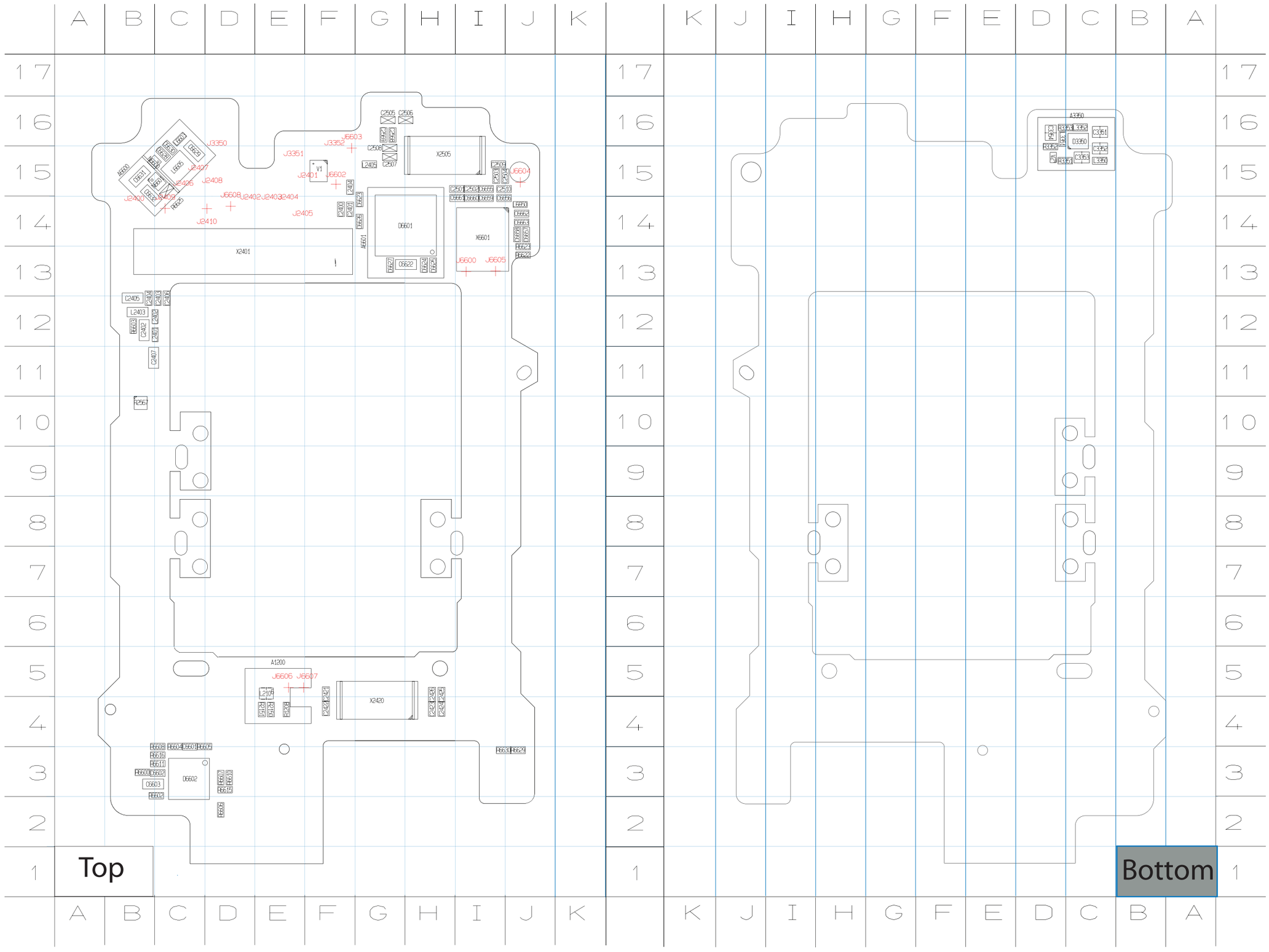
A		D	
A1200	E 5	D3350	C 16
A3350	C 16	D6601	H 14
A6600	C 15	D6602	C 3
A6601	H 14	L	
C		L2106	E 5
C2400	F 14	L2401	C 12
C2401	F 14	L2402	C 12
C2402	B 12	L2403	B 12
C2403	C 12	L2404	F 15
C2404	B 12	L2405	G 15
C2405	B 12	L3350	C 15
C2406	C 12	L3351	D 16
C2407	B 11	L3352	C 16
C2421	F 5	L6603	C 16
C2422	F 4	L6605	C 15
C2423	H 4	L6650	J 14
C2424	H 4	N	
C2425	H 5	N6600	B 15
C2426	H 5	N6601	C 15
C2501	I 15	R	
C2502	I 15	R1208	E 4
C2503	I 15	R2150	E 4
C2504	J 15	R2151	E 4
C2509	I 15	R2567	B 10
C2510	I 15	R3351	D 15
C2568	G 16	R3352	D 15
C2569	G 16	R3353	D 16
C3351	C 16	R6600	B 3
C3352	C 15	R6602	C 3
C3353	C 15	R6603	B 12
C3354	D 16	R6604	C 4
C6601	C 4	R6605	C 4
C6602	C 3	R6606	D 2
C6603	B 3	R6607	D 3
C6622	H 13	R6608	C 4
C6623	G 14	R6610	D 3
C6624	H 13	R6611	C 3
C6625	H 13	R6615	D 3
C6626	G 14	R6616	C 3
C6627	G 13	R6622	J 13
C6628	C 15	R6623	J 13
C6629	C 15	R6629	J 3
C6630	C 15	R6630	I 3
C6631	B 15	V	
C6632	B 15	V1	F 15
C6655	I 15	V2	D 15
C6656	I 14	X	
C6657	J 14	X2401	D 13
C6658	J 14	X2420	G 4
C6659	I 14	X2505	H 15
C6660	I 14	X6601	I 14
C6661	I 14		
C6662	J 14		
C6663	J 14		



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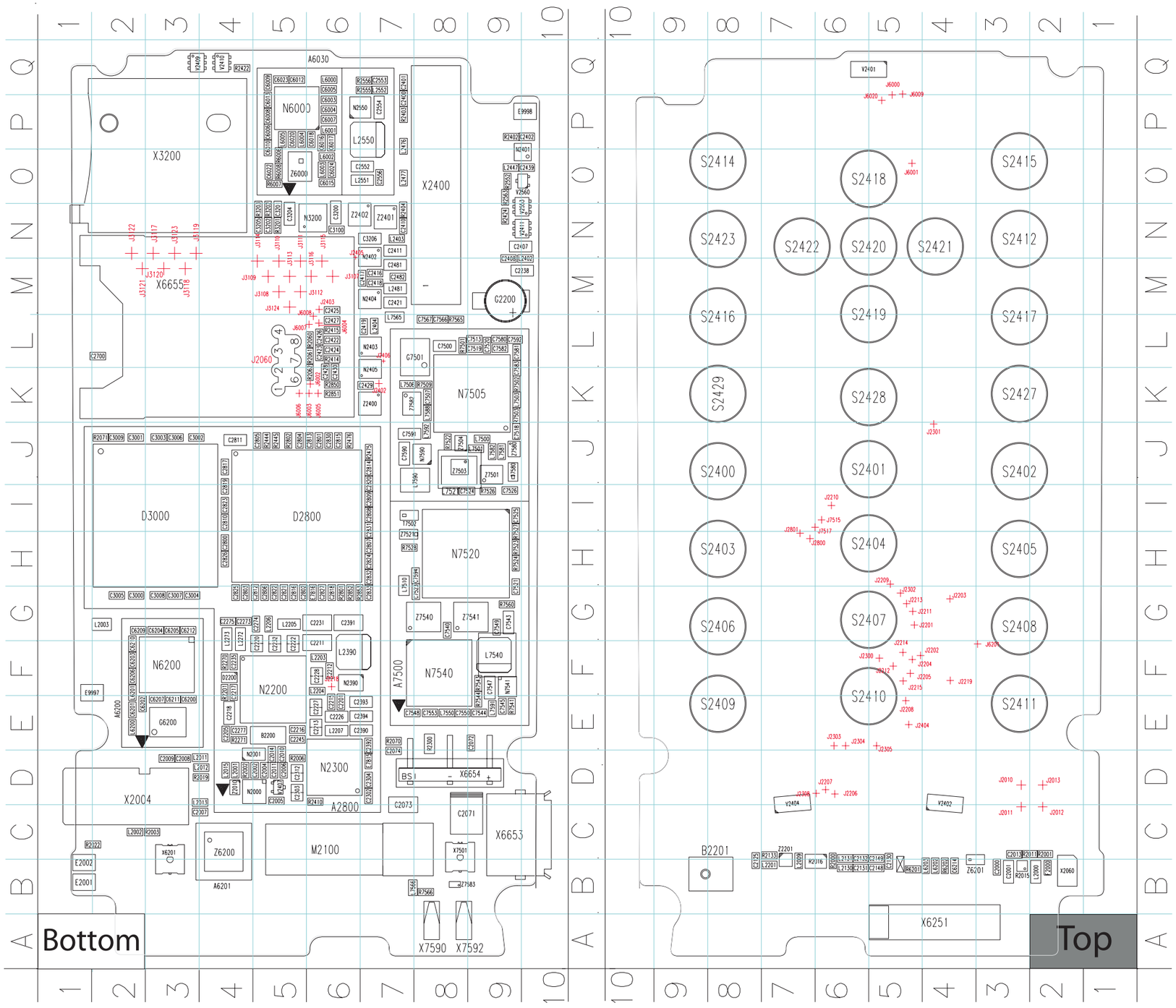
A		C2427	F 12	C6203	B 6	L2481	G 13	R2445	E 10
A2800	D 7	C2428	F 11	C6204	C 7	L2550	G 16	R2475	G 10
A6030	F 16	C2429	G 11	C6205	C 7	L2551	G 15	R2476	F 10
A6200	C 6	C2430	F 11	C6206	B 6	L2552	G 17	R2552	I 15
A6201	D 3	C2439	J 15	C6207	C 5	L6000	F 17	R2555	G 17
A7500	H 9	C2481	G 13	C6209	B 7	L6001	F 16	R2556	G 17
B		C2482	G 13	C6210	B 6	L6002	F 15	R2563	I 15
B2200	E 5	C2552	G 15	C6211	C 5	L6003	F 15	R2801	F 7
B2201	H 2	C2553	G 17	C6212	C 7	L6004	E 16	R2802	E 10
C		C2554	G 16	C6214	D 2	L6005	E 16	R2850	F 11
C2000	C 2	C2556	G 15	C7500	H 12	L6200	B 5	R2851	F 11
C2001	C 2	C2700	B 12	C7507	H 11	L6201	B 6	R2852	F 7
C2002	E 4	C2800	D 8	C7513	I 12	L6202	D 2	R2853	F 7
C2004	E 4	C2801	F 10	C7518	I 10	L6203	D 2	R3201	E 14
C2005	E 4	C2802	E 7	C7519	I 12	L7500	I 10	R3202	E 14
C2006	E 4	C2803	D 7	C7520	I 12	L7501	I 10	R3203	E 14
C2007	D 3	C2804	E 10	C7521	I 7	L7503	I 11	R6006	E 15
C2008	C 4	C2805	E 10	C7523	H 7	L7506	G 11	R6007	E 15
C2009	C 4	C2806	E 7	C7524	H 9	L7510	G 8	R6008	E 15
C2010	E 4	C2807	G 8	C7525	I 9	L7521	H 9	R6201	E 2
C2011	E 4	C2808	G 9	C7526	I 9	L7540	I 6	R6202	D 2
C2013	C 3	C2809	G 9	C7540	H 7	L7550	H 5	R7501	H 12
C2014	E 4	C2810	D 9	C7543	I 7	L7565	G 12	R7502	I 11
C2071	H 3	C2811	D 10	C7544	I 5	L7566	G 2	R7503	I 11
C2072	I 5	C2812	E 7	C7545	I 5	L7581	I 10	R7509	H 11
C2073	G 4	C2813	F 10	C7547	I 6	L7582	I 10	R7522	H 10
C2074	G 4	C2814	G 10	C7548	G 5	L7588	H 11	R7523	I 8
C2125	H 2	C2815	F 10	C7549	I 7	L7590	H 9	R7524	I 8
C2130	E 2	C2816	E 7	C7550	H 5	L7591	I 5	R7526	I 9
C2131	F 2	C2817	D 10	C7553	H 5	L7592	H 10	R7527	I 9
C2132	F 3	C2818	F 7	C7566	H 12	M		R7528	G 8
C2148	E 2	C2819	D 9	C7567	H 12	M2100	F 3	R7541	I 5
C2149	E 3	C2820	G 9	C7580	I 12	N		R7543	I 6
C2201	F 5	C2821	E 7	C7581	I 12	N2000	E 4	R7544	I 5
C2205	D 5	C2822	E 7	C7582	I 12	N2001	E 4	R7560	I 7
C2211	F 6	C2823	D 9	C7583	I 11	N2200	E 6	R7565	H 12
C2212	F 6	C2824	G 8	C7590	G 10	N2300	F 4	R7566	H 2
C2213	F 5	C2825	D 7	C7591	G 10	N2390	F 6	T	
C2215	F 5	C2826	D 8	C7592	I 12	N2401	J 15	T7502	G 9
C2216	E 5	C2827	F 7	C7594	H 8	N2402	G 14	T7580	I 10
C2217	D 6	C2830	F 10	D		N2403	G 12	V	
C2218	D 5	C2831	G 9	D2200	D 6	N2404	G 13	V2401	F 17
C2220	E 6	C2832	G 8	D2800	E 9	N2405	G 11	V2402	D 4
C2222	E 6	C2833	G 7	D3000	C 9	N2550	G 16	V2404	G 4
C2226	F 5	C3000	B 7	E		N3200	F 14	V2407	E 4
C2227	F 5	C3001	B 10	E2001	A 2	N6000	E 16	V2409	C 17
C2228	F 6	C3002	C 10	E2002	A 2	N6200	C 6	V2410	D 17
C2231	F 7	C3003	C 10	E9997	B 6	N7505	I 11	V2411	J 14
C2232	E 6	C3004	C 7	E9998	J 16	N7520	H 8	V2553	J 14
C2235	D 6	C3005	B 7	F		N7540	H 6	V2560	J 15
C2238	J 13	C3006	C 10	F2000	B 2	N7541	I 6	X	
C2245	E 5	C3007	C 7	G		N7590	H 10	X2004	B 4
C2273	D 7	C3008	C 7	G2200	I 13	R		X2060	B 2
C2274	E 7	C3009	B 10	G6200	C 5	R2000	F 2	X2400	H 15
C2275	D 7	C3100	F 14	G7501	H 12	R2001	B 3	X3200	C 15
C2277	D 5	C3200	F 14	L		R2002	D 4	X6201	C 3
C2302	G 4	C3201	E 14	L2000	B 2	R2003	C 3	X6251	D 1
C2303	E 4	C3202	E 14	L2001	D 4	R2006	E 4	X6653	I 3
C2304	G 4	C3204	E 14	L2002	B 3	R2011	C 3	X6654	H 4
C2312	E 4	C3205	E 14	L2003	B 7	R2015	C 2	X6655	D 12
C2390	G 5	C3206	G 14	L2009	G 2	R2016	F 2	X7501	H 3
C2391	F 7	C6003	F 16	L2011	D 4	R2019	D 4	X7590	H 1
C2392	G 5	C6004	F 16	L2012	D 4	R2022	B 3	X7592	H 1
C2393	G 5	C6005	F 17	L2013	D 4	R2060	F 12	Z	
C2394	G 5	C6006	E 16	L2015	D 4	R2061	F 12	Z2010	D 4
C2400	G 16	C6007	F 16	L2130	F 2	R2062	F 11	Z2201	G 2
C2401	G 17	C6008	E 16	L2131	F 3	R2070	G 5	Z2400	G 11
C2402	J 16	C6009	E 17	L2201	G 2	R2071	B 10	Z2401	G 14
C2407	I 14	C6010	E 16	L2203	F 6	R2133	G 3	Z2402	F 14
C2408	I 13	C6012	E 17	L2204	F 6	R2201	D 6	Z6000	E 15
C2410	G 14	C6013	E 16	L2205	E 7	R2270	D 6	Z6200	D 3
C2411	G 14	C6015	F 15	L2206	E 7	R2271	D 5	Z6201	D 2
C2416	G 13	C6016	F 16	L2207	F 5	R2300	H 5	Z7501	I 10
C2417	G 13	C6017	F 16	L2272	D 7	R2402	I 16	Z7503	H 10
C2418	G 13	C6018	F 16	L2273	D 7	R2403	G 16	Z7504	H 10
C2419	G 12	C6020	E 16	L2390	F 6	R2404	G 14	Z7521	G 8
C2421	G 13	C6022	E 15	L2402	J 13	R2410	F 4	Z7540	H 7
C2422	F 12	C6023	E 17	L2403	G 14	R2414	F 12	Z7541	I 7
C2423	F 12	C6024	F 15	L2404	G 12	R2415	F 12	Z7580	I 10
C2424	F 12	C6200	C 5	L2447	I 15	R2422	D 17	Z7582	G 11
C2425	F 13	C6201	B 5	L2476	G 16	R2424	I 14	Z7583	H 2
C2426	F 12	C6202	B 5	L2477	G 15	R2444	E 10		



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