## **Service Schematics**

### Introduction

# NOKIA 6125

### Exploded view and component disposal

### **IMPORTANT:**

This document is intended for use by authorized NOKIA 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",

"Frequency band table" or "Antenna switch table".

The "Signal overview" page gives a good and fast overview about the most important signals and voltages on board.

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

#### All measurements were made using following equipment:

Nokia repair SW : Phoenix version 2005.44.4.120

Oscilloscope : Fluke PM 3380A/B

Spectrum Analyzer : Advantest R3162 with an analog probe

RF-Generator / GSM Tester : Rhode & Schwarz CMU 200

Multimeter : Fluke 73 Series II

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

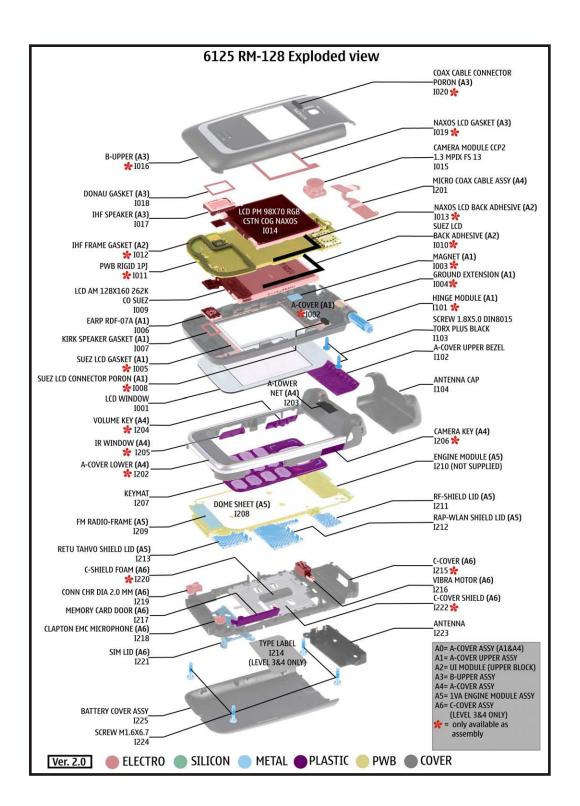
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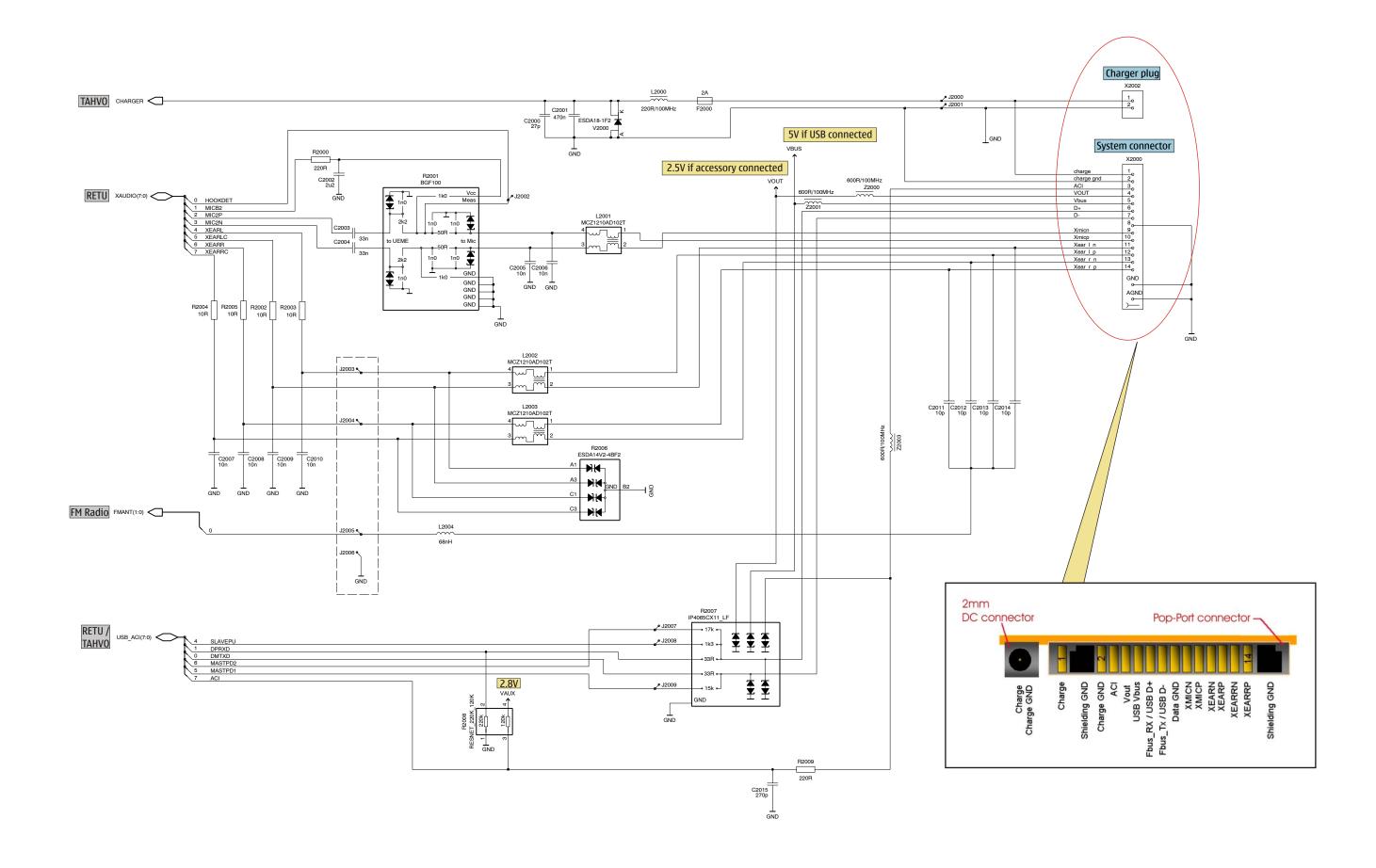
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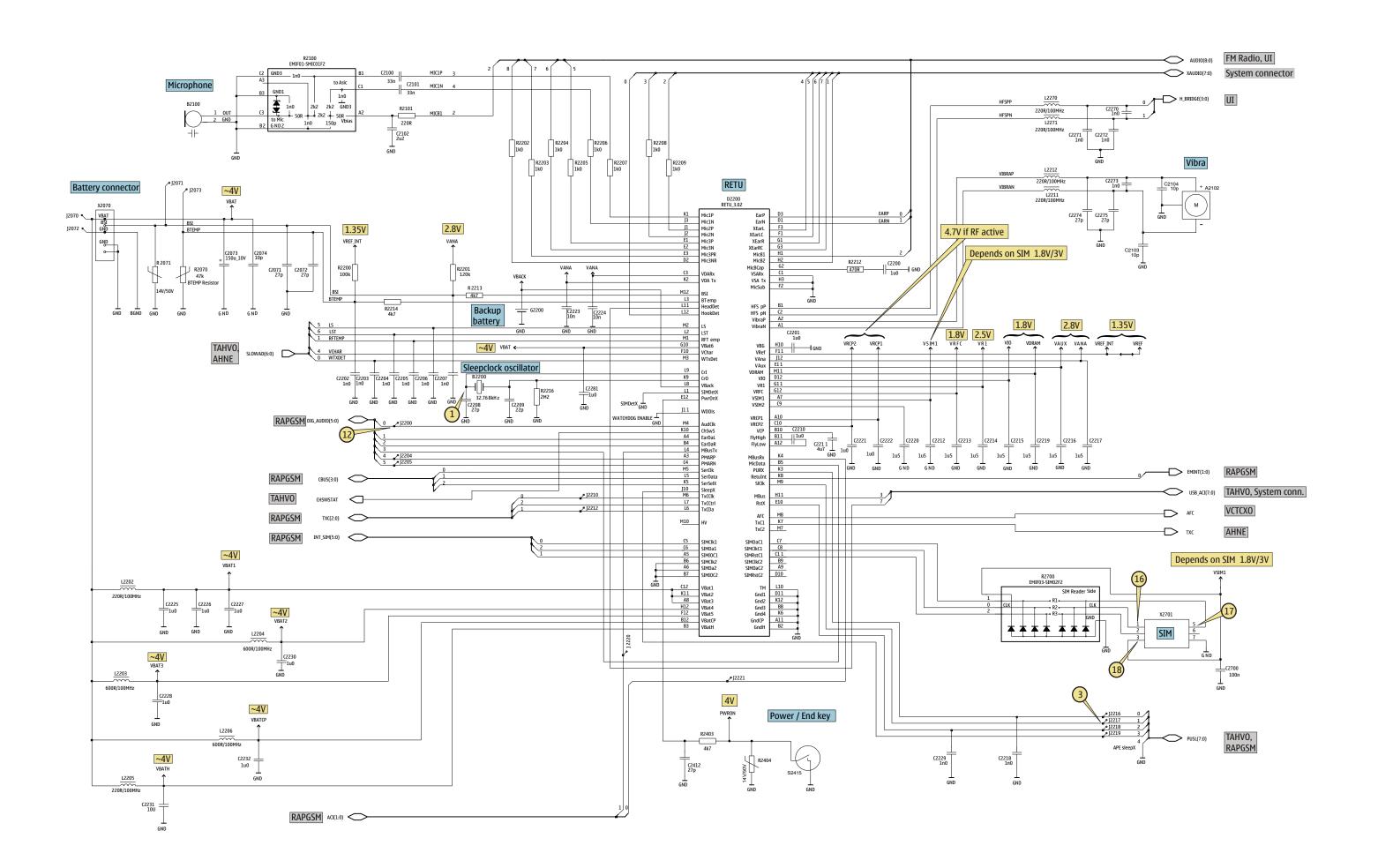
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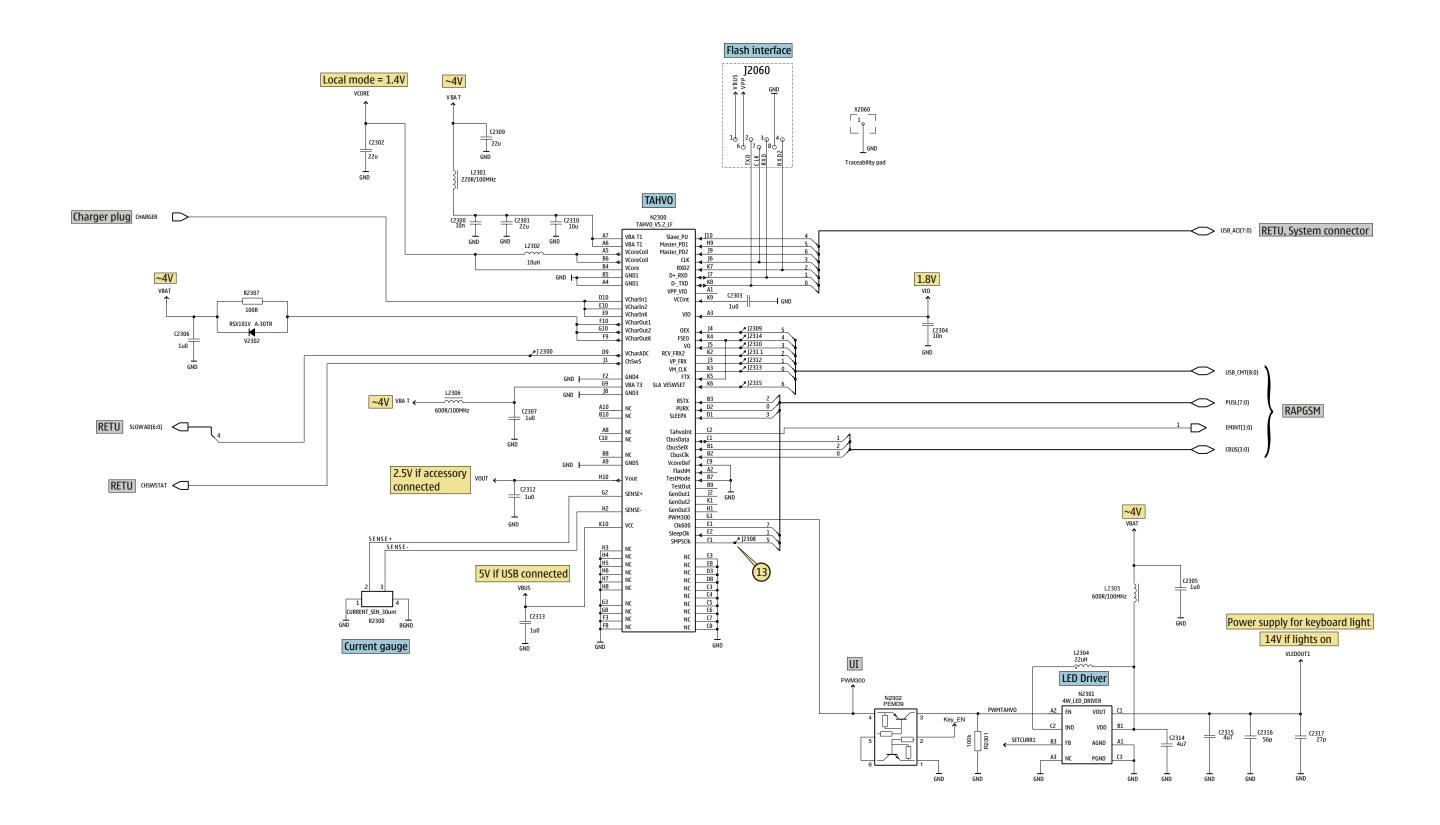


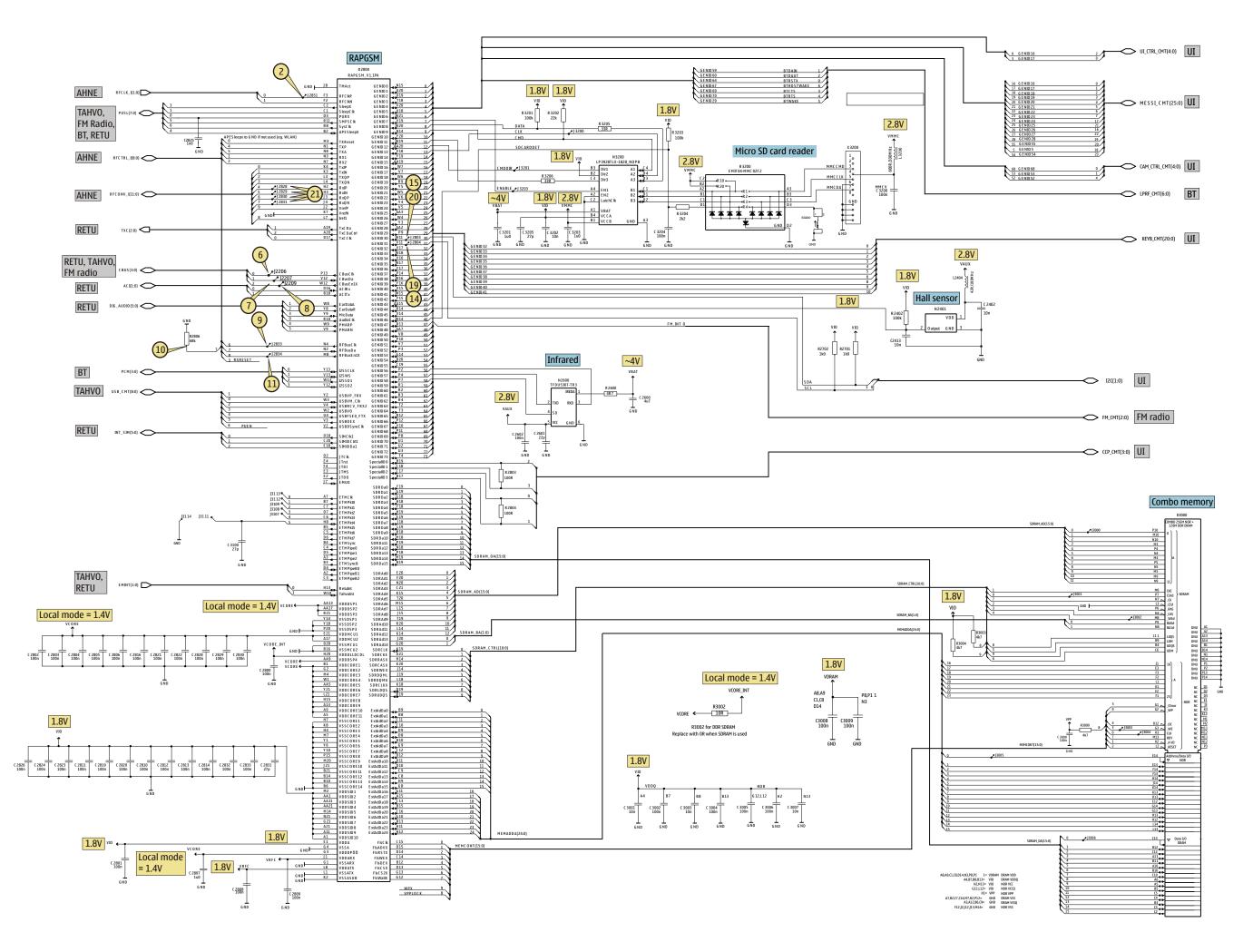
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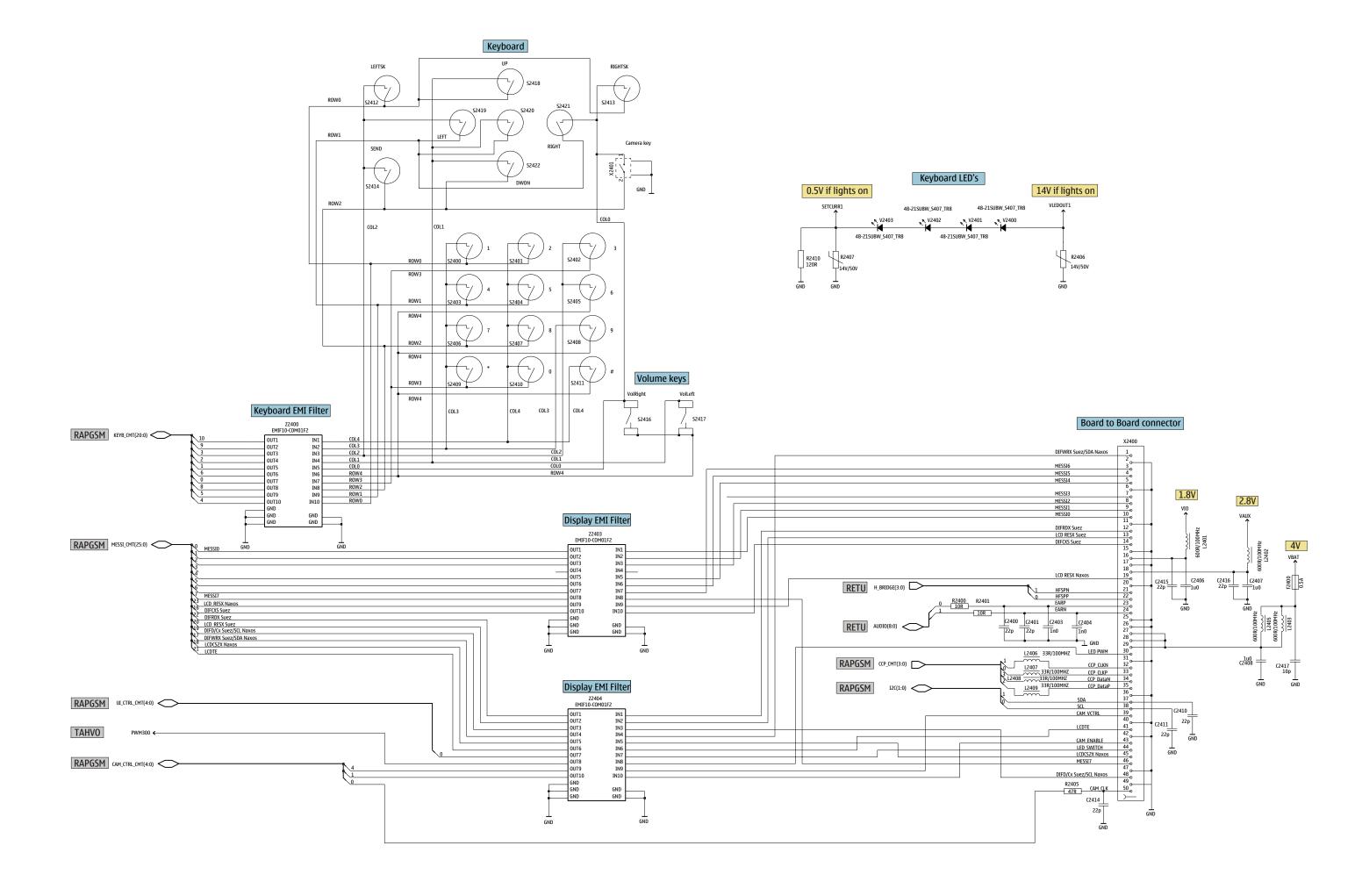


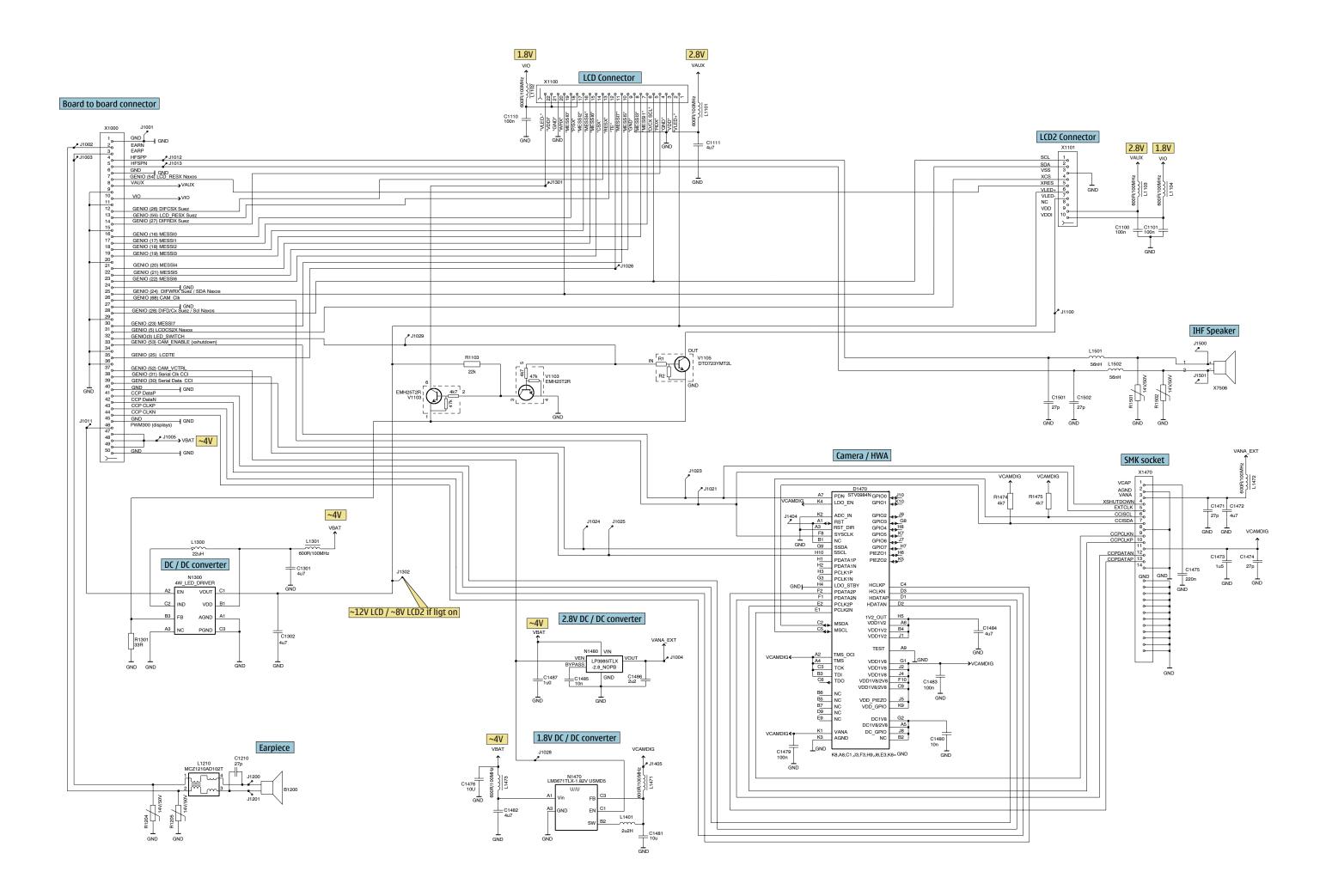


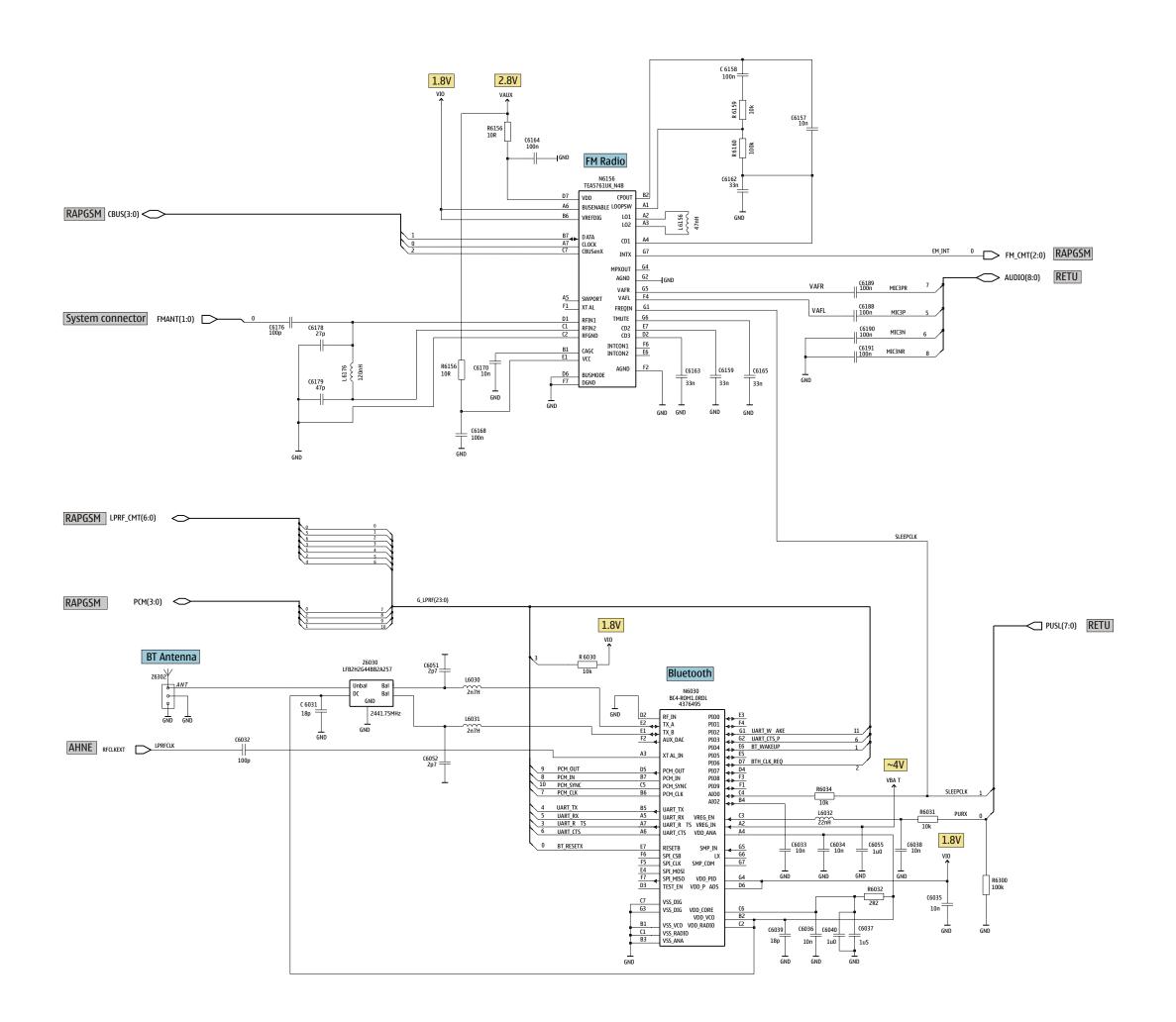




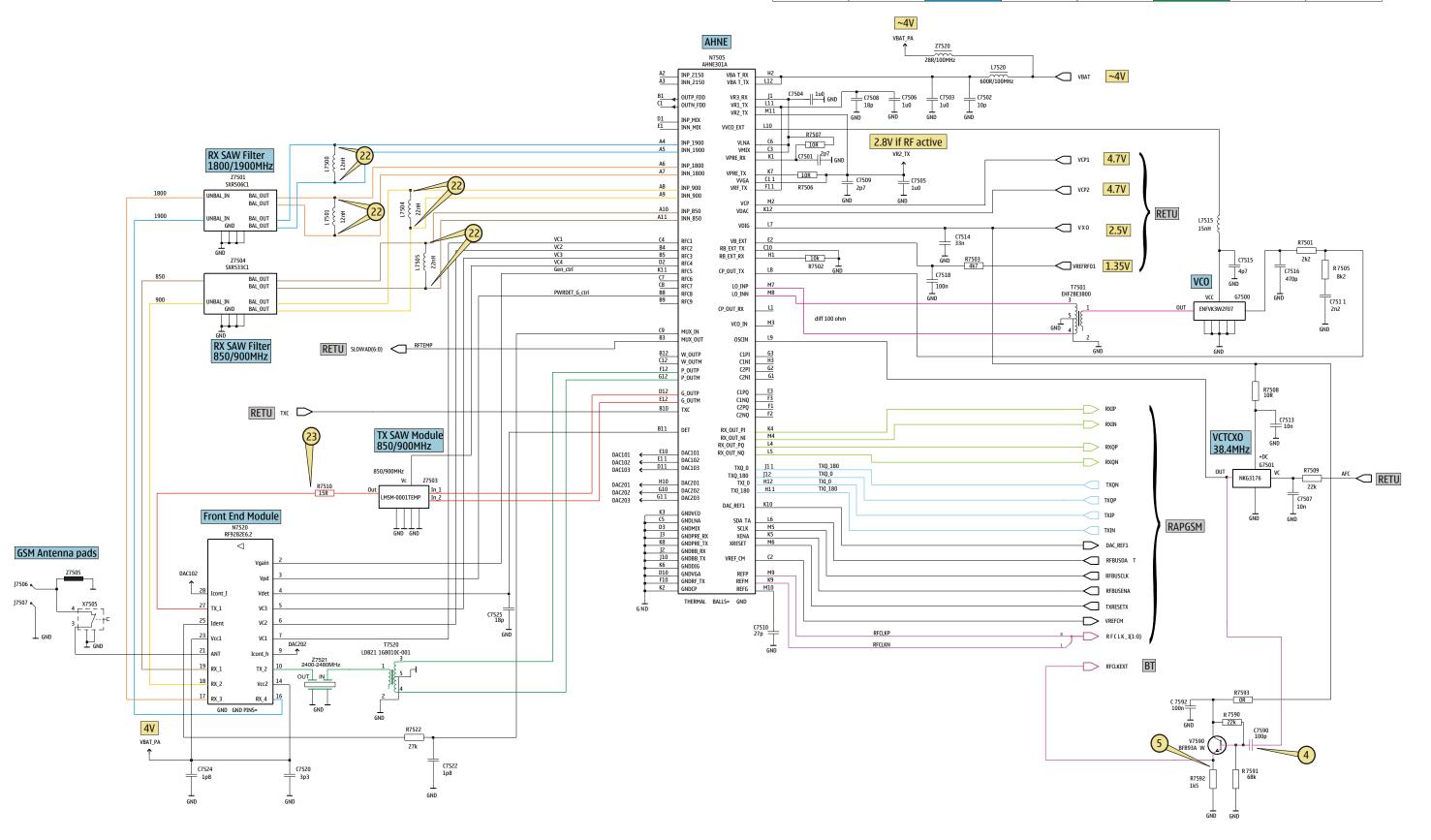


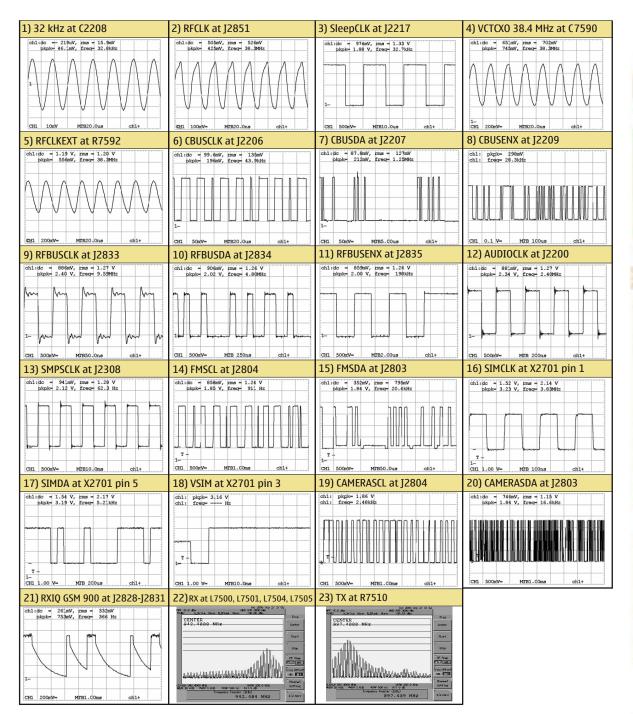


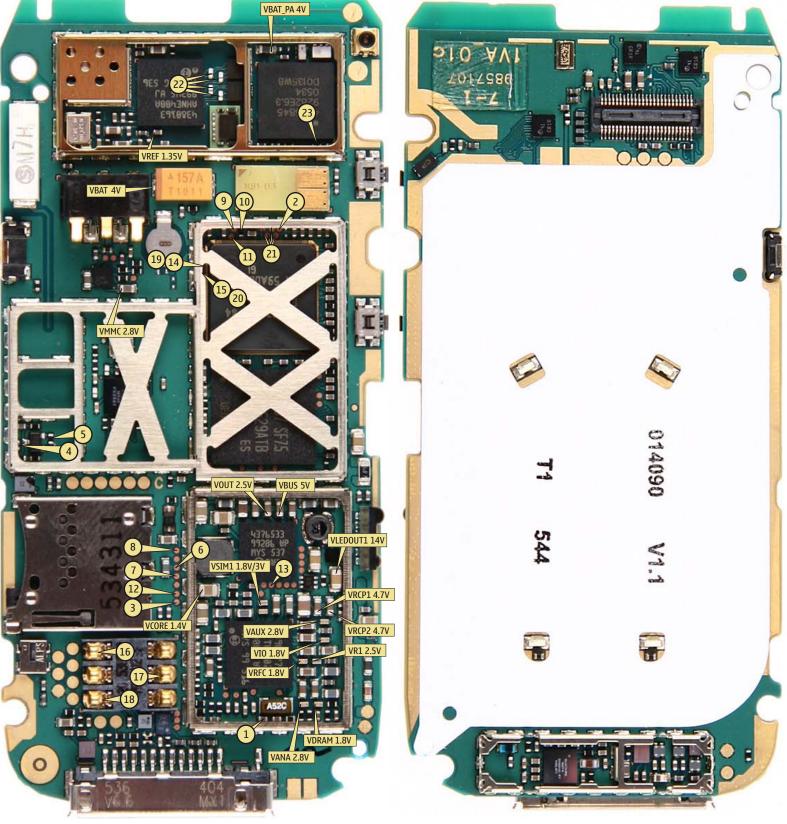




Band	Channel	RX	VCO/RX	VC/RX	TX	VCO/TX	VC/TX
GSM 850	190	881.6MHz	3526.4MHz	~1.8V	836.6MHz	3346.4MHz	~1.5V
GSM 900	37	942.4MHz	3769.6MHz	~2.73V	897.4MHz	3589.6MHz	~1.99V
GSM 1800	700	1842.8MHz	3685.6MHz	~2.39V	1747.8MHz	3495.6MHz	~1.60V
GSM 1900	661	1960.0MHz	3920.0MHz	~3.31V	1880.0MHz	3760.0MHz	~2.96V







В															
		C2231	N5	C2815	F7	C6191	Q5	J2219	N4	L2404	D7	R2307	L4	V2000	30
B2100	Q1	C2232	07	C2816	<b>I</b> 5	C7501	<b>C</b> 4	J2300	N6	L2405	<b>C</b> 5	R2400	04	V2302	L4
B2200	P6	C2270	05	C2819	I5	C7502	D4	J2308	N6	L2406	D5	R2401	04	V2400	06
C		C2271	05	C2820	F6	C7503	D3	J2309	М7	L2407	D5	R2402	D8	V2401	I6
C2000	N8	C2272	05	C2821	17	C7504	В4	J2310	М7	L2408	D5	R2403	N6	V2402	I3
C2001	N8	C2273	N6		F5	C7505	D3	J2311	N6	L2409	D5	R2404	<b>G1</b>	V2403	_
C2002	R4	C2274	N6		I6	C7506	D3	J2312	М7	L3200	L2	R2405	F5	V7590	К1
C2003	R4	C2275	N5	C2824	J5	C7507	D3	J2313	Ν7	L6030	I3	R2406	06	Х	
C2004	R4	C2281	08	C2825	F7	C7508	D3	J2314	Ν7	L6031	I3	R2407	03		R4
C2005	R3	C2300	M5	C2826	I8	C7509	D3	J2315	M7	L6032	<u>13</u>	R2410	Q1	X2002	R7
C2006	R3	C2301	L5	C2828	17	C7510	D4	J2803	G5	L6156	R5	R2600	K8	X2060	_
C2007	Q2	C2302	N5	C2829	G8	C7511	C3	J2804	G5	L6176	Q6	R2700	Q4		F3
C2008	Q3	C2303	L7	C2830	Н5	C7513	D3	J2828	F6	L7500	C5	R2701	D3		_
C2009	Q3	C2304	N6		17	C7515	В3	J2829	F6	L7501	C5	R2702	D3	X2401	G1
C2010	Q3	C2305	L8	C2832	G8	C7516	C3	J2830	F6	L7502	D4	R2803	I8	X2701	P3
C2011	R3	C2306	M4		I6	<b>C7518</b>	D4	J2831	F6	L7503	D7	R2804	Н8	X3200	Μź
C2012	R3	C2307	L6	C3000	K5	C7520	С7		F6	L7504	<b>C</b> 5	R2806	F6	X7505	B8
C2013	R3	C2309	L5	C3001	J5	C7522	D6	_	F6	L7505	<b>C</b> 5	R3000	J5	Z	
C2014	R3	C2310	L6	C3002	K5	C7523	В7	J2851	F7	L7515	C3	R3002	H8		Q5
C2015	04	C2312	L6	C3003	I8	C7524	D6	_	К6	N		R3003	I8	Z2001	Q2
C2071	G3	C2313	L7	C3004	J8	C7525	D8	•	К6	N2300	М6		K7	Z2003	Q5
C2072	P2	C2314	M7	C3005	<u>18</u>	C7590	K1		I5	N2301	M8		L1	Z2400	De
C2073	E5	C2315	N8	C3006	K8	C7592	J1	J3002	K6	N2302	N7		G4	Z2403	B4
C2074	E2	C2316	N8	C3007	K8	D	J±	J3004	17	N2401	E8	R3202	G3	Z2404	C3
C2100	Q2	C2317	N8	C3008	J8	D2200	06	_	J7	N2600	M8		K5	Z6030	I3
C2100	02	C2400	N4	C3009	K8	D2800		J3005	17	N3200	G3		L4	Z6302	E1
C2102	02	C2401	N4	C3200	L2	D3000	J6	J3112	L4	N6030	I3	R3205	G3	Z7501	CG
C2103	E8	C2402	D8		G2	F	Jo	J3112	L3	N6156	R5	R3206	G4	Z7503	D5
C2103	E8	C2402	(4	C3202	G3	F2000	P8	J3114	L3	N7505	C4	R6030	<u>u4</u> <u>J4</u>	Z7504	C6
C2200	05	C2404	C5	C3203	H3	F2400	D5		L3	N7520	D7	R6031	13	Z7520	B6
C2201	P7	C2406	C4	C3204	L4	G	כט	J3116	L2	R	ים	R6032	J3	Z7521	C7
C2202	P8		_					12110				NOUSE	در	LIJLI	C
12202		C2/107	CA	L 2 2 0 5 1	6.3	にろうりり	G/I	12117	1121	DOUUU	$\cap A$	D6031	ĪΛ		
C2203	-	C2407	C4	C3205	£3	G2200	G4	J3117	L2	R2000	Q4	R6034	I4		
C2203	Р6	C2408	<b>C</b> 5	C6031	I3	G7500	С3	J3200	G3	R2001	Q4	R6156	R5		
C2204	P6 P6	C2408 C2410	C5 D4	C6031 C6032	I3 J4		_	J3200 J3201	G3 G3	R2001 R2002	Q4 Q3	R6156 R6157	R5 Q6		
C2204 C2205	P6 P6 P5	C2408 C2410 C2411	C5 D4 D3	C6031 C6032 C6033	I3 J4 J4	G7500 G7501 J	C3 D2	J3200 J3201 J3203	G3 G3 G3	R2001 R2002 R2003	Q4 Q3 Q3	R6156 R6157 R6159	R5 Q6 Q5		
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C2204 C2205 C2206 C2207 C2208 C2209	P6 P5 P6 P7 Q6 Q6	C2408 C2410 C2411 C2412 C2413 C2414 C2415	C5 D4 D3 N6 D8 F4 C3	C6031 C6032 C6033 C6034 C6035 C6036	I3 J4 J4 J3 J3	G7500 G7501 J2000 J2001 J2002 J2003	C3 D2 P8 Q8 P6 Q3	J3200 J3201 J3203 J7506 J7507 L	G3 G3 B8 C8	R2001 R2002 R2003 R2004 R2005 R2006 R2007	Q4 Q3 Q3 Q2 Q3 Q3 Q4	R6156 R6157 R6159 R6160 R6300 R7501 R7502	R5 Q6 Q5 Q5 I3 C3 B4		
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C2204 C2205 C2206 C2207 C2208 C2209 C2210 C2211 C2212 C2213 C2214 C2215 C2216	P6 P6 P5 P6 P7 Q6 Q6 N7 N7 N6 O7 O7	C2408 C2410 C2411 C2412 C2413 C2414 C2415 C2416 C2417 C2600 C2601 C2602 C2700 C2800	C5 D4 D3 N6 D8 F4 C3 C4 D5 K8 L8 Q3 H8	C6031 C6032 C6033 C6034 C6035 C6036 C6037 C6038 C6039 C6040 C6051 C6055 C6055	I3 J4 J4 J3 J3 I3 I3 I3 I3 J4 Q4	G7500 G7501 J2000 J2001 J2002 J2003 J2004 J2005 J2006 J2007 J2008 J2009 J2060	P8 Q8 P6 Q3 Q2 Q4 Q4 P4 P2	J3200 J3201 J3203 J7506 J7507 L L2000 L2001 L2002 L2003 L2004 L2202 L2203 L2204	G3 G3 G3 B8 C8 O8 Q3 Q3 R3 R3 P8 O8 P8	R2001 R2002 R2003 R2004 R2005 R2006 R2007 R2008 R2009 R2070 R2101 R2101 R2200	Q4 Q3 Q2 Q3 Q3 Q4 Q4 Q4 P2 G3 Q2 P2	R6156 R6157 R6159 R6160 R6300 R7501 R7502 R7503 R7505 R7506 R7507 R7508 R7509 R7510	R5 Q6 Q5 Q5 I3 C3 B4 C3 D3 B4 D3 D3 D7		
C2204 C2205 C2206 C2207 C2208 C2209 C2210 C2211 C2212 C2213 C2214 C2215 C2216 C2217	P6 P6 P5 P6 P7 Q6 Q6 N7 N7 N6 O7 O7	C2408 C2410 C2411 C2412 C2413 C2414 C2415 C2416 C2417 C2600 C2601 C2602 C2700 C2800 C2801	C5 D4 D3 N6 D8 F4 C3 C4 D5 K8 L8 Q3 H8 F7	C6031 C6032 C6033 C6034 C6035 C6036 C6037 C6038 C6039 C6040 C6051 C6052 C6055 C6157 C6158	I3 J4 J4 J3 J3 J3 I3 I4 J3 I3 Q4 Q4	G7500 G7501 J2000 J2001 J2002 J2003 J2004 J2005 J2006 J2007 J2008 J2009 J2060 J2070	C3 D2 P8 Q8 P6 Q3 Q3 R2 Q2 Q4 Q4 P4 P2 E3	J3200 J3201 J3203 J7506 J7507 L2000 L2001 L2002 L2003 L2004 L2202 L2203 L2204 L2205	G3 G3 G3 B8 C8 O8 Q3 Q3 R3 R3 R8 O8 P8	R2001 R2002 R2003 R2004 R2005 R2006 R2007 R2008 R2009 R2070 R2071 R2100 R2101 R2200 R2201	Q4 Q3 Q3 Q3 Q3 Q4 Q4 Q4 P2 G3 Q2 P2 P8	R6156 R6157 R6159 R6160 R6300 R7501 R7502 R7503 R7505 R7506 R7507 R7508 R7509 R7510 R7522	R5 Q6 Q5 Q5 I3 C3 B4 C3 D3 B4 D3 D7		
C2204 C2205 C2206 C2207 C2208 C2209 C2210 C2211 C2212 C2213 C2214 C2215 C2216 C2217 C2218	P6 P6 P7 Q6 Q6 N7 N7 N6 O7 O7 O7 P7	C2408 C2410 C2411 C2412 C2413 C2414 C2415 C2416 C2417 C2600 C2601 C2602 C2700 C2800 C2801 C2802	C5 D4 D3 N6 D8 F4 C3 C4 D5 K8 L8 Q3 H8 F7 H8	C6031 C6032 C6033 C6034 C6035 C6036 C6037 C6038 C6040 C6051 C6052 C6055 C6157 C6158 C6159	I3 J4 J4 J3 J3 J3 I3 I3 I3 J4 Q4 Q4 R6	G7500 G7501 J2000 J2001 J2002 J2003 J2004 J2005 J2006 J2007 J2008 J2009 J2060 J2070 J2071	P8 Q8 P6 Q3 Q3 R2 Q4 Q4 P4 P2 E3 E4	J3200 J3201 J3203 J7506 J7507 L L2000 L2001 L2002 L2003 L2004 L2202 L2203 L2204 L2205 L2206	G3 G3 G3 B8 C8 O8 Q3 Q3 R3 R3 P8 O8 P8 P8	R2001 R2002 R2003 R2004 R2005 R2006 R2007 R2008 R2009 R2070 R2101 R2100 R2201 R2202	Q4 Q3 Q3 Q2 Q3 Q4 Q4 Q4 P2 G3 Q2 P2 P8 P7	R6156 R6157 R6159 R6160 R6300 R7501 R7502 R7503 R7505 R7506 R7507 R7508 R7509 R7510 R7522 R7523	R5 Q6 Q5 G5 G3 B4 C3 D3 B4 D3 D7 D7 C7		
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