

1 Abstract

The purpose of this document is to provide a sequence of repair actions associated with different failure modes. The repair actions are listed in order of their probability of creating a successful repair. The first action has the highest probability, and subsequent actions have lower probabilities. The intention is for the repair technician to implement the first repair action and then retest the phone. If the phone continues to fail the same test, then the technician should continue to the second repair action. If the phone continues to fail the same test after all of the repair actions are exhausted, then the phone will be considered not reparable at this level.

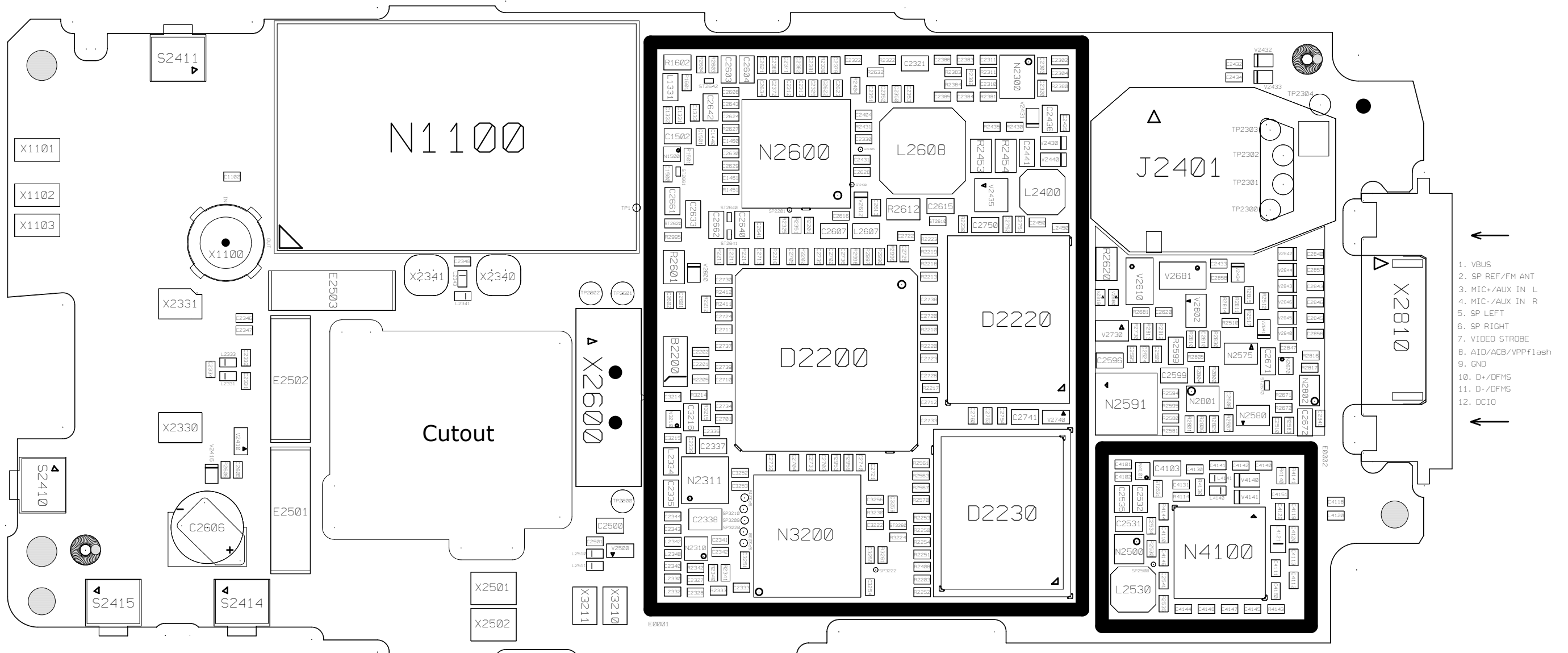
This document should be used only after the steps specified in the Mechanical Trouble Shooting Guide have been exhausted for the given problem area.

2 Repair Actions for Manuel Test Failures

Test	Repair Action
Backup battery	1) C2606
Camera	1) X2510
Capacity	1) N2600
Charging	If the battery indicator does not show the correct level and the phone shows fully charged when the charger is connected. Use the software fix in EMMA III. 1) V2610 & V2681 2) N2600
USB charging	1) N2802
Display	1) X2500
Earphone	1) N2300 2) N2600
FM Radio	1) N4100
IR communication	1) H2410
Illumination, Display	1) N2500 2) X2500 3) N2600
Illumination, Keyboard	1) X2500 2) N2600



Joystick	1) Z2450
	2) S2420
Components that can break during repair of the joystick (S2420) or ESD filter (Z2450)	V2411, V2412, V2413, V2414, V2415 & C2462
Keyboard & side keys	1) Z2450
	3) S2420
	4) S2411, S2414, S2415
Red LED	1) H2500
Microphone	1) B2370
	2) N2300
	3) N2600
Memory Stick	1) X2950
On/Off	1) S2410
	2) V2416
	3) B2200
	4) D2230
	5) X2600
	6) N2600
Can't power off	1) V2410
Real Time Clock	1) B2200
SIM	1) J2401
	2) N2600
Speaker	1) N2310
USB	1) N2802
Network	1) X1100
	2) N1100
	3) N2600



- 1. VBUS
- 2. SP REF/FM ANT
- 3. MIC+/AUX IN L
- 4. MIC-/AUX IN R
- 5. SP LEFT
- 6. SP RIGHT
- 7. VIDEO STROBE
- 8. AID/ACB/VPPflash
- 9. GND
- 10. D+/DFMS
- 11. D-/DFMS
- 12. DC10

E0001

E0002

B2370

C2375
C2374
L2301
C2370
C2373

No routing!

X2950

No routing!

L2825
L2822
L2821
L2824
L2823
L2820

V2628

ST2452
C2453
C2454
C2455
C2456
C2457
C2458
C2459
C2460
C2461
C2462
C2463
C2464
C2465
C2466
C2467
C2468
C2469
C2470
C2471
C2472
C2473
C2474
C2475
C2476
C2477
C2478
C2479
C2480

J2402
20 11
1 10

X2500
10 1
11 20

X2510
30 16
1 15

S2420

Z2450

R2324

R2421
R2420
SP2261

SP2263
SP2264
SP2265
SP2266
SP2267
SP2260

R2423

V2420
Z4152
Z4153

R2579
R2569
R2566
R2564
R2568
R2563
R2560
R2567
R2562
R2565
R2561
R2564
R2568
R2563
R2560
R2567
R2562
R2565
R2561

TP2553

R2515
R2514
R2513
R2512
R2511
R2510
R2509
R2508
R2507
R2506
R2505
R2504
R2503
R2502
R2501

C2518
C2517
C2516
C2515
C2514
C2513
C2512
C2511
C2510
C2509
C2508
C2507
C2506
C2505
C2504
C2503
C2502
C2501

N2517

TP2554

ST2551
C2521
C2520
C2519

Cutout

TP2552

R2511

C2512
N2511
C2508
C2513

H2410

R2422
C2421
C2420

