

Consumer Solutions & Support US Competency Center 600 North US Highway 45 Libertyville, Illinois 60048 Website: gs.mot.com

FIELD SERVICE BULLETIN

FSB Number:	LVCCFSB2005-96
Author:	Ross Karlen
Date:	April 4, 2005
Total No. of Pages:	3
Subject:	3G A1000, V980, E1000, C980, C975 – Low output power GSM
Phone Models:	3G A1000, V980, E1000, C980, C975
Level of Repair:	3
-	

Problem

Service is aware of a concern identified during the 1st 200 NPI analysis on A1000. Some units were returned with a customer complaint of "Turn On/Off power down in call" or "Voice Call – Poor Reception". Analysis revealed low output power in the GSM 900 band. The concern is the power coupler (capacitor) in the Skyworks PA (5188220Y02) losing resistance, which will result in the power being shunted off. Shown Fig. 1



Blue: Reference Pout Pink: PA with shunted power.



Consumer Solutions & Support US Competency Center 600 North US Highway 45 Libertyville, Illinois 60048 Website: gs.mot.com

Solution

Skyworks implemented a screen to capture failures. (2004 Week 52) Units produced after 0452 have been screened. See Fig 2 below to identify date code.

FIG. 2 (Date code on picture shown 0439 – Year 2004 Week 39) Screen implemented 0452 (Year 2004 Week 52)



Service Action

Customer Returns:

When servicing customer returns for the products listed above, with Voice Call related complaints, then:

- 1. Verify unit exhibits low RF Output Power in GSM 900 Band.
 - a. If failure symptoms do not match above, follow normal troubleshooting techniques to determine the issue.
- 2. Replace the PA with a 5188220Y02 part with a lot code 0452 or later. See image above.
- 3. Perform required re-phasing and completely retest the unit to confirm successful repair of the failure.
 - a. If failure symptoms persist, follow normal troubleshooting techniques to determine the issue.

Note: PA exhibits the following symptom, when removed from the PCB: PA with concern will read a low resistance, from Vcc GSM (Pin 7) to CPIN (Pin 10), of around 100 ohms. A good part should be open and measure resistance on the order of Meg ohms across Pin 7 and Pin 10.



Consumer Solutions & Support US Competency Center 600 North US Highway 45 Libertyville, Illinois 60048 Website: gs.mot.com

Service Inventory:

Call Center Information

When responding to problem product inquiries with Voice Call related complaints, please direct them to their local Service Center per this FSB.

Service Entry Code

Please ensure that repairs of this type are logged on the Service database as follows:

Global M-Claims Codes:

Customer Complaint Codes: CPR05 (Voice Call – drop call, poor reception) TON04 (Turn on/off – Auto power down in call) Problem Found Code: CPR05 (Voice Call – drop call, poor reception) TON02 (Turn on/off – Powers down during call) REF Designator Code: U (Integrated Circuit And Module) Repair Code: REP06 (Replace Electrical Part-CSB/FSB)

Asia Codes:

Fault Code: 02 (Drop calls) 19 (Poor Reception) Repair Code: 11 (IC Replaced)

PRC E-Service Codes:

Customer Complaint Codes: 1205 (Voice Call – drop call, poor reception) 2004 (Turn on/off – Auto power down in call) Problem Found Code: N/A (Voice Call – drop call, poor reception) N/A (Turn on/off – Powers down during call) REF Designator Code: N/A Repair Code: 1206 (Replace Electrical Part-CSB/FSB)