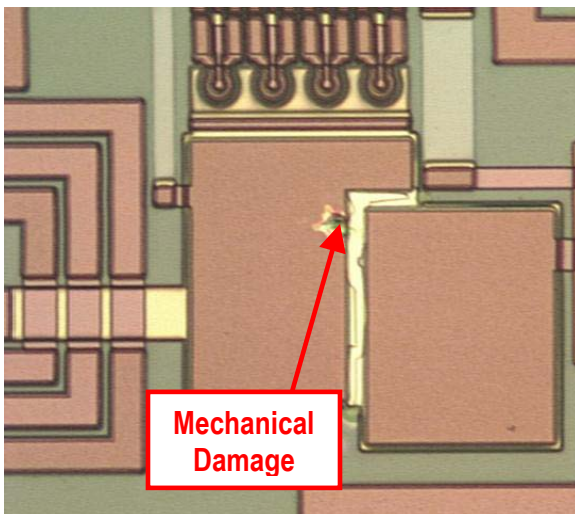


FIELD SERVICE BULLETIN

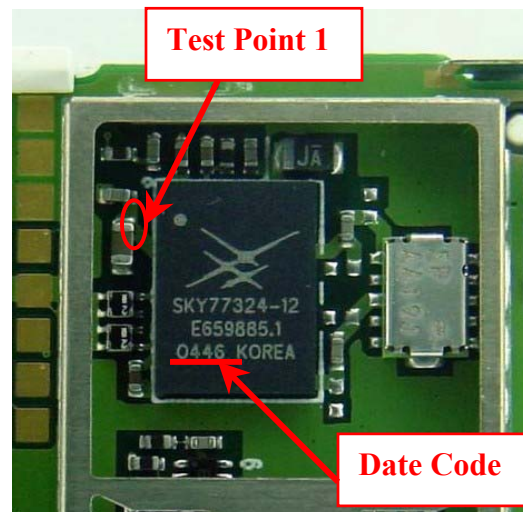
FSB Number: BJCCFSB2005--81
Author: Jason Wang
Date: 21th Mar. 2005
Total No. Of Pages: 2
Subject: **C155/C156/C157 Skyworks PA Issue**
Model Affected: **C155/C156/C157 GSM/DCS**
Level of Repair: 3

Problem

Service is aware of an issue identified during the 1st 200 NPI analysis on C155/C156/C157. Some units, returned with a customer complaint of "Can't Power on" or "Battery short life". This issue is caused by abnormal high current consumption of Skyworks PA P/N 0427732401W due to a mechanical scratch across the die surface. Such damage would lead to a short to ground on the die surface after phone assembly and field operation.



Pic.1



Pic. 2

Solution

Skyworks implemented actions as:

- 1), Added Cleaning After GaAs Die Scribe and Break Process.
 - 2), More Frequent Cleaning of the Pick up Tip (After Every Lot), Replacement of Pick up Tip (After Every 17,000 Placements).
 - 3), Heightened Wafer Inspection (100X Microscopic Inspection of Panels After Die Attach – for Lot Set-up) Added to Improve Overall Product Quality at all Assembly Sites.
- The actions are from week49.2004. Date code 0449.

Field Service Action

Customer Returns:

When servicing affected GSM C155/C156/C157 phones returned to Service Center with the Customer Complaint of: "Can't Power on" or "Battery short life". then:

- 1, Confirm the complaint failure's symptom with abnormal high current consumption. (Standby/backlight on, normal current is around 160mA).
 - a. If the unit has not these symptoms, then proceed with a normal troubleshooting techniques as per customer complaint.
2. Disassembly unit and check Pic.2 test point 1- GND impedance to verify the cause of high current. (The normal resistance of test point 1- GND is around 2 M Ohm).
- 3, Remove the PA from the main PCB and verify that the failure is caused by the PA module itself by replacing the suspect PA with a known good one.
3. Finally, replace the defective PA with date code after week 49 of 2004.

If the unit still displays the original failure symptoms with the known good PA, then troubleshoot the PCB for defects.

Call Centre Action:

When a customer contacts the Motorola Call Center with Customer Complaint of "**Can't Power on**" or "**Battery short life**", with C155/C156/C157 radio, then communicated to the customer send to at Motorola approved service center for the identified and repaired.

Service Entry Code

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

Global Code:

Complaint Code:	TON01—(Turn on/off-No turn on) or BAT02---(Battery—Battery Life Short)
Problem found Code	TON01—(Turn on/off-No turn on) or BAT02---(Battery—Battery Life Short)
Repair Code:	REP06--(Replace Electrical Part-CSB/FSB)