Repair Map - Audio

GSM Service Support
Competency Centre Level 1

Signal Path Key

Red signal path represents Transmit Audio

Blue signal path represents Receive Audio

(1) If there is just no audio from unit check:
- Microphone
- J802
- Discretes around Mic.

All for dry joints, open circuits etc. ①

(2) If there is just no audio from PHFA headset then check: ②
- J940 for dry joints, open circuit.
- U946 amplifier and associated components for missing, dry joints etc.

(3) If missing, check that MIC_BIAS (2.25V) is being supplied from U601 pin 27 and replace U601 if missing. If MIC_BIAS is OK check R602 and R608 for dry joints etc. ③

(4) If missing, check for dry joints on U601. Check U601 is receiving DCLK (512KHz square wave) from U700. Also check R610 and C609 for dry joints, damage etc. ④

(5) If missing check: ⑤
- J940
- L941
- R944
- C941

For dry joints and open circuits

(6) If missing, reflow U700 and if this does not work then replace U700. ⑥

(7) If missing, check: ⑦
- U602 for dry joints
- C658
- R655 and other discretes

at Pins 25 and 26 U602 for dry joints, open circuits, damage etc.

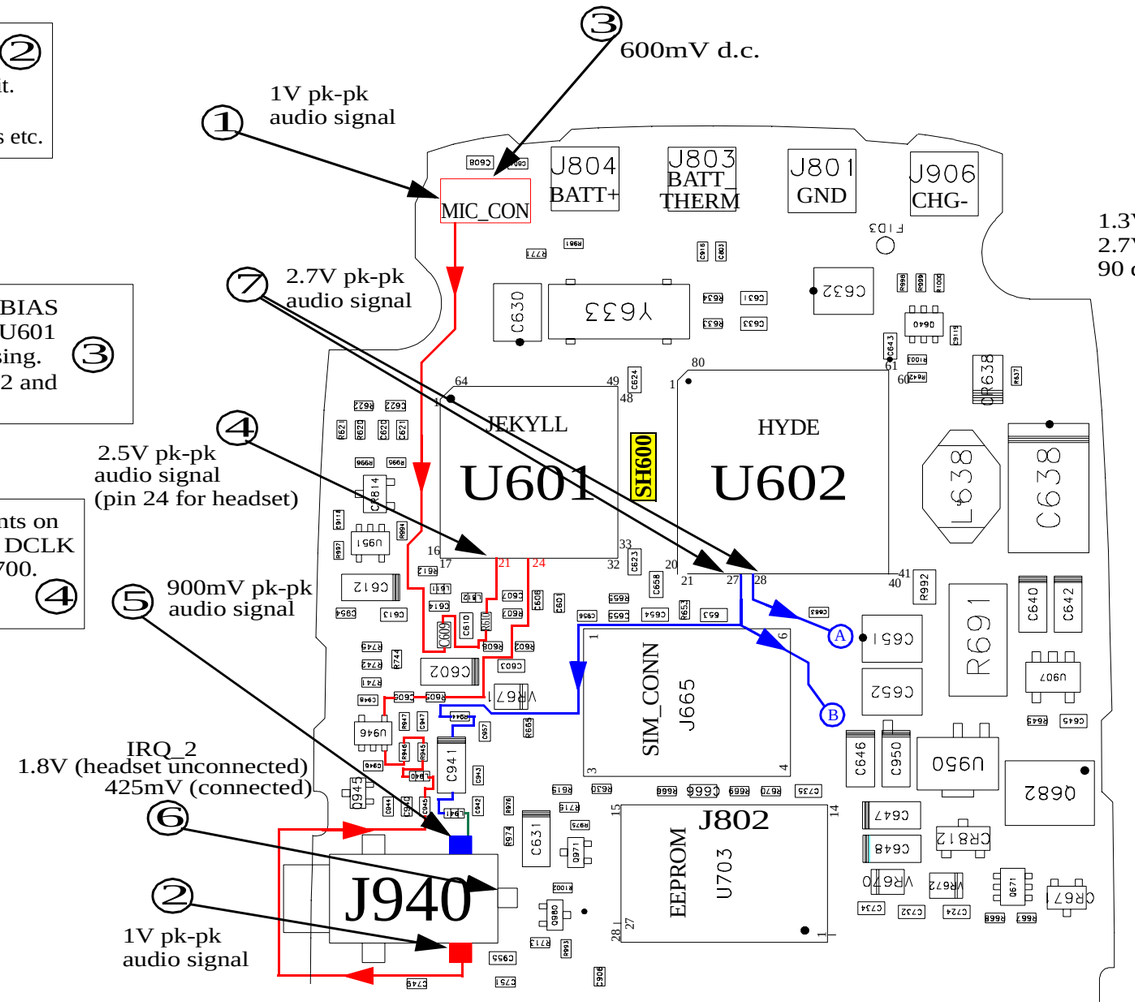
(8) If missing, check: ⑧
- VR501
- VR502
- C902
- C903
- L903
- L907
- R907
- R903

All for dry joints, open circuits, damage etc.
If all OK replace Speaker.

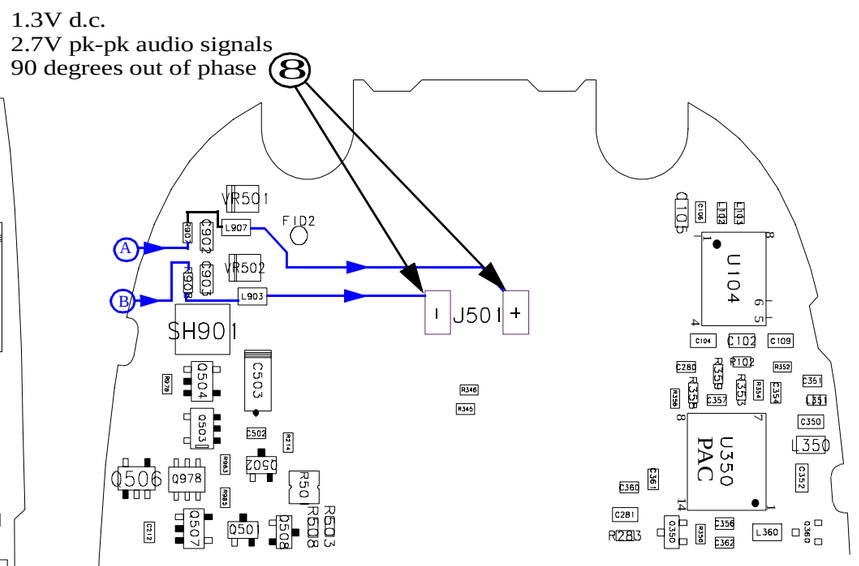
(9) If you cannot find any audio signal at any point, then this could be a data fault, check for: ⑨
- DIG_AUDIO on pins 14 and 15 U601 (8KHz, 3V square wave with data.
- DCLK on Pin 13 U601 (512Khz clock)

If missing U700 or U601 may be corrupt.

MAIN SIDE OF PCB



KEYPAD SIDE OF PCB



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