

Sephiroth Kwon GRMA 20-05-2009



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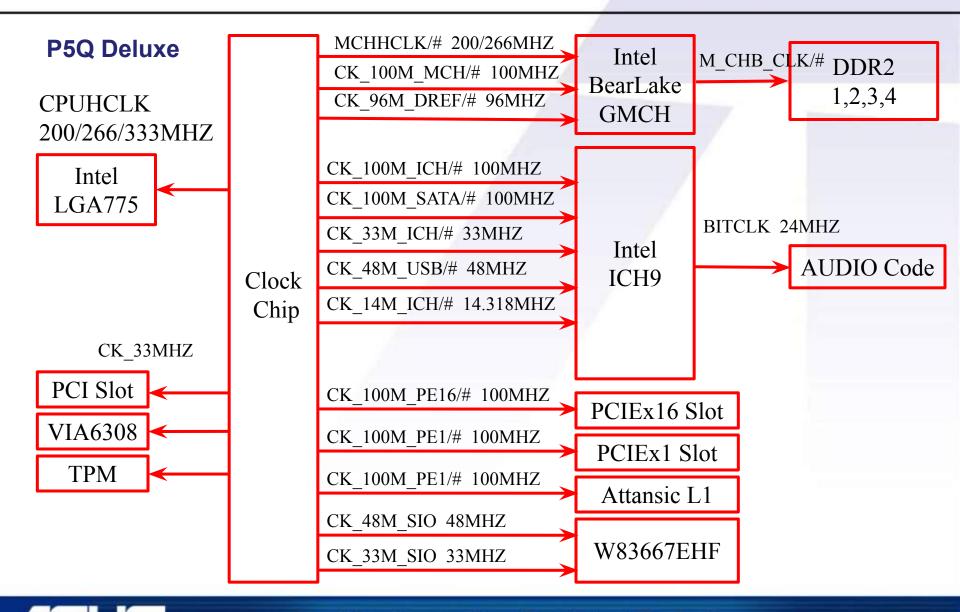
OUTLINE

- Clock Distribution Diagram
- Signal Description
- Repair Flow Chart
- Repair Technique



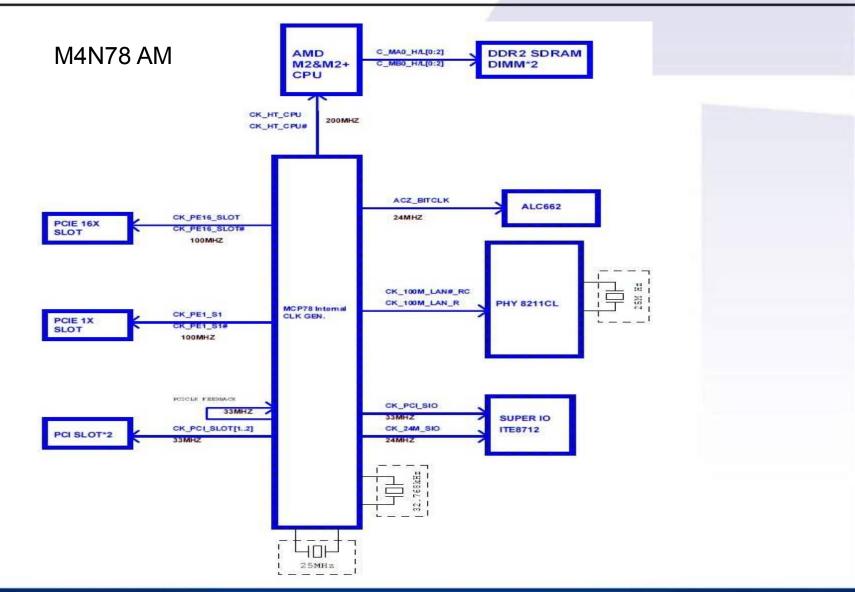
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CLOCK Distribution Diagram



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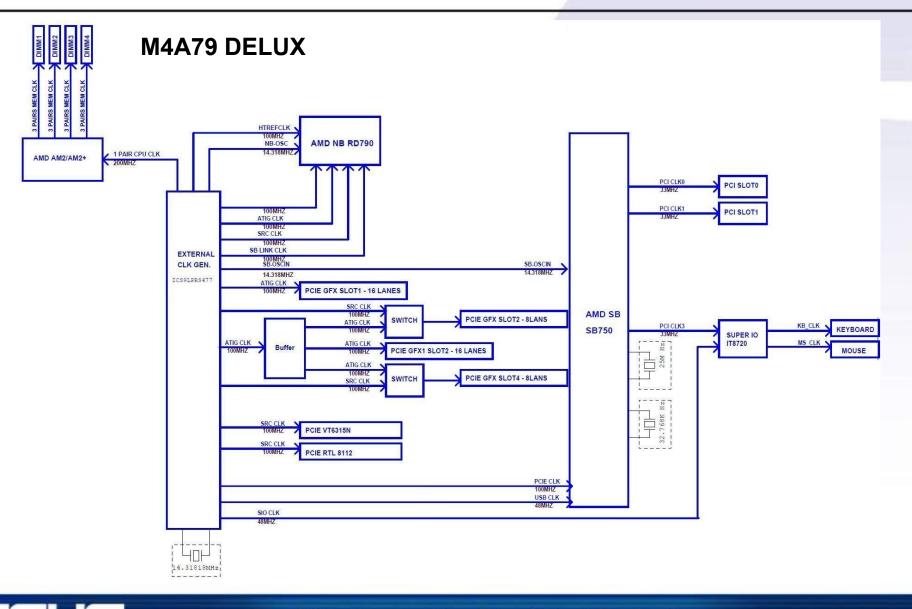
CLOCK Distribution Diagram





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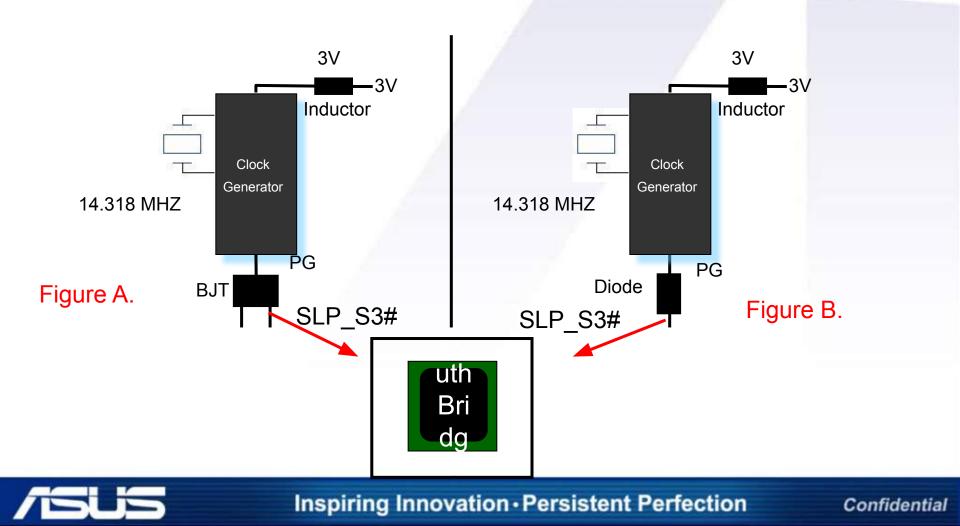
CLOCK Distribution Diagram



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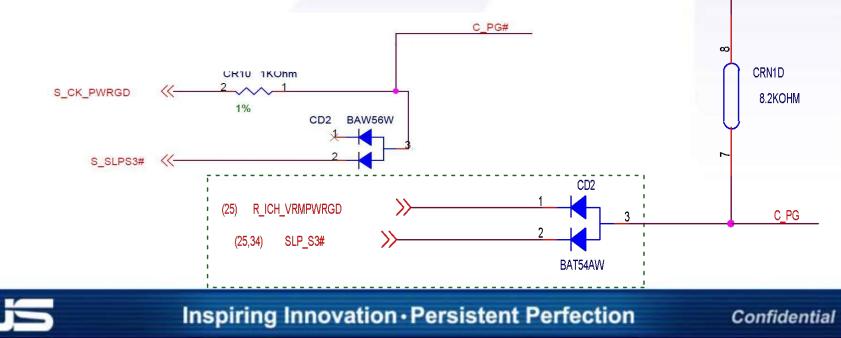
Signal Description

1.Sometimes the Clock chip connect one Diode or BJT component. It depends on designer.

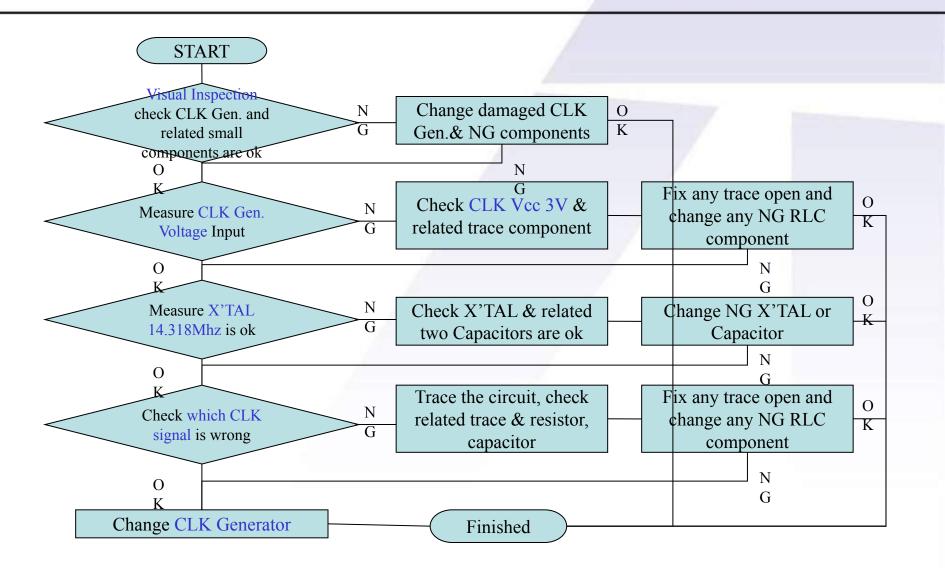


Signal Description

- Sometimes we can find BAT54AW near ICS.
- VRMPWRGD and SLP_S3# must be 3V
- Finally, CLKVCC offer 3V PWRGD to Clock Generator
- If Clock Generator doesn't work, you must measure this PWRGD signal first.



Repair Flow Chart





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Repair Technique-Visual Inspection



Visual Inspection to check Clock Generator and related small components are not damaged.



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Repair Technique-Measure Vcc_CLK

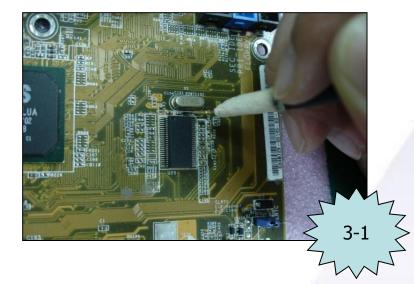


Use Multi-Meter or Oscilloscope to measure Clock voltage 3.3V is ok.



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Repair Technique-Measure CLK X'TAL



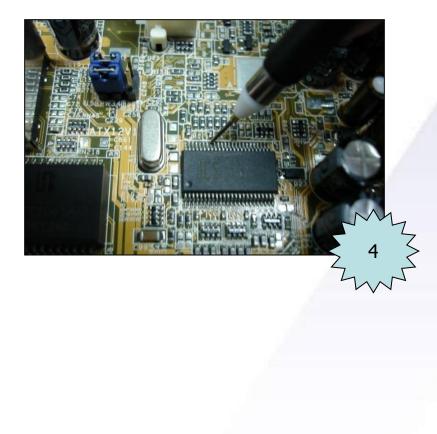
Use Oscilloscope to measure Clock X'TAL 14.318Mhz is ok.





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Repair Technique-Check Individual NG signal



Use Oscilloscope to measure every individual CLK signal. If find error please trace the circuit to find it's connection.

If related RLC components are ok but CLK still is NG please try to change CLK generator at last.



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Thank You!