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Business after Completing the Course. www.mobilecellphonerepairing.com 1 Scope for Students can Work as a Technician in a Cell Phone Service Centre. Students can Find Job in Cell Phone Industry. www.mobilecellphonerepairing.com 2 Course
Overview Introduction & Identification of PCB (Printed Circuit Board). Fault Finding of Mobile Phone Software. Multimedia and Downloading. www.mobilecellphonerepairing.com 3 Index 1. Mobile Phone Dictionary: Full Forms of Terms Used in
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Identification of Small Parts in a Mobile Phone. 13. Multimedia and Downloading. Identification of PCB. www.mobilecellphonerepairing.com 4 Mobile Phone. 13. Multimedia and Downloading. Identification of PCB. www.mobilecellphonerepairing.com 4 Mobile Telephony. 2. 2G: 2Nd Generation in Mobile Telephony. 3. 3G: 3Rd Generation in Mobile Telephony. 4. 4G: 4Th
Generation in Mobile Telephony. 5. AC: Alternate Current. 6. BGA: Ball Grid Array. 7. BSI: Battery Status Indicator. 8. CDMA: Code Division Multiple Access. 9. CPU: Central Processing Unit. 10. DCT: Digital Core Technology. www.mobilecellphonerepairing.com 5 Mobile Phone Dictionary 11. DC: Direct Current. 12. GSM: Global System for Mobile
Communications. 13. IMEI: International Mobile Equipment Identity. 14. IC: Integrated Circuit. 15. LED: Light Emitting Diode. 16. PDA: Personal Digital Assistant. 17. PFO: Power Frequency Oscillator. 18. PCB: Printed Circuit Board. 19. RAM: Random Access Memory. 20. RF: Radio Frequency. www.mobilecellphonerepairing.com 6 Mobile Phone
Dictionary 21. ROM: Read Only Memory. 22. RTC: Real Time Clock. 23. RX: Receive / Receiving Section). 24. SMD: Surface Mount Device. 25. TX: Transmit (Transmitting Section). 26. UEM: Universal Energy Manager. 27. VCO: Voltage-Controlled Oscillator. www.mobilecellphonerepairing.com 7 Mobile Phone Repairing Tools and
Equipment 1. Soldering Iron or Soldering Station: Used to Solder. Soldering Station www.mobilecellphonerepairing.com 8 Mobile Phone Repairing Tools and Equipment Thinners.
Used to Clean PCB. Jumper Wire: Used to Connect One Point to Another Point to Another Point to Another Point to Another Point to Cut Wire. www.mobilecellphonerepairing.com 11 Mobile Phone Repairing Tools and Equipment
Nose Cutter: Used to Cut Wire. Screwdriver (T6,T5,T4,+,-): Used to Remove and Tighten Screws from Mobile Phone Repairing.com 13 Mobile Phone Repairing Tools and Equipment Tweezers: To Hold Wire and Components. Brush: For Cleaning. www.mobilecellphonerepairing.com 13 Mobile Phone Repairing Tools and
Equipment Multimeter: To Check PCB Track and Electronic Components. Blower (S.M.D Rework Station): To Remove and Solder SMD / Chip Components. Www.mobilecellphonerepairing.com 14 Mobile Phone Repairing Tools and Equipment Battery Booster: To Boost Voltage of Battery. Ultrasonic Cleaner: To Clean PCB and Electronic
Components, www.mobilecellphonerepairing.com 15 Mobile Phone Repairing Tools and Equipment BGA Kit: To Reball and Repairing Tools and Equipment BGA Kit: To Reball and Repairing Tools and Equipment Case and Screen Opener: To Open the Screen and
Case of a Mobile Phone. Regulated DC Power Supply: To Supply DC Electricity. www.mobilecellphonerepairing.com 18 Mobile Phone Repairing. Paste Flux: Used While Soldering. www.mobilecellphonerepairing.com 18 Mobile Phone
Repairing Tools and Equipment Solder Paste: Solder in Semi-Solid Form. Used to Solder. File / Reti / Cleaning Sponge: To Clean Tip of Soldering Wire: To Desolder Electronic Components and To Remove Excess Solder from PCB Track.
Screwdriver Kit: To Disassemble and Assemble Mobile Phone. www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 1. Fascia 2. Back Facia Facia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellphonerepairing.com 20 Identification of Card Level Parts. 3. Haddi / Internal Fascia 4. Ringer / Loudspeaker www.mobilecellph
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25 Identification of Card Level Parts. 11. Data Cable Connector www.mobilecellphonerepairing.com 26 Identification of Card Level Parts. 12. Battery 13. Battery 13. Battery Connector www.mobilecellphonerepairing.com 28 Identification of Card Level Parts. 14. SIM Card 15. SIM Card Connector www.mobilecellphonerepairing.com 28 Identification of Card Level Parts. 15. SIM Card 15. SIM
Level Parts. 16. Memory Card 17. Memory Card Connector www.mobilecellphonerepairing.com 30 Identification of Card Level Parts. 18. Camera 19. C
Identification of Card Level Parts. 22. Keypad Connector 23. ON / OFF Switch www.mobilecellphonerepairing.com 34 Identification of Card Level Parts. 26. Antenna 27. PCB www.mobilecellphonerepairing.com 34 Identification of Card Level Parts. 27. Display Connector www.mobilecellphonerepairing.com 35 Identification of Card Level Parts. 28. Antenna 27. PCB www.mobilecellphonerepairing.com 36 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 37 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 38 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 38 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 38 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 38 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 38 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 39 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 30 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 30 Identification of Card Level Parts. 29. Display Connector www.mobilecellphonerepairing.com 30 Identification of Card Level Parts. 30 Identificatio
Parts. 28. PDA www.mobilecellphonerepairing.com 35 Nokia 3310 Mobile Phone PCB Diagram Antenna Switch + PFO 3. Flash IC = RAM + Flash IC Network IC VCO Power IC Audio IC + Charging IC + Audio IC + Power IC 2. PFO = Antenna Switch + PFO 3. Flash IC = RAM + Flash IC Network IC VCO Power IC Audio IC + Power IC Audio IC + Power IC 2. PFO = Antenna Switch + PFO 3. Flash IC = RAM + Flash IC Network IC VCO Power IC Audio IC + Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC = RAM + Flash IC Network IC VCO Power IC Audio IC + Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC = RAM + Flash IC Network IC VCO Power IC Audio IC + Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC = RAM + Flash IC Network IC VCO Power IC Audio IC + Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC = RAM + Flash IC Network IC VCO Power IC Audio IC + Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC Network IC VCO Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC Network IC VCO Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC Network IC VCO Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC Network IC VCO Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC Network IC VCO Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC Network IC VCO Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC Network IC VCO Power IC 3. PFO = Antenna Switch + PFO 3. Flash IC Network IC VCO Power IC 3. PFO = Antenna Switch + PFO 3. PFO = Anten
RTC Charging IC Power Section CPU R22 MIC Interface Flash IC RAM UI Module / Logic IC Buzzer Interface www.mobilecellphonerepairing.com 36 Identification of PCB 1. Antenna Point: The section below anteena point and above power section is called network
section. 3. Anteena Switch: It is found in the network section. It is found in the network section. It is present beside the antenna switch. 6. Network IC: It is below or beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged with PFO. 5. PFO: It is present beside the anteena switch is merged wit
switch and PFO. 7. In some mobile phones, the Network IC is merged with the CPU. E.g.: Nokia 1200, 1650, 1208, 1209 etc. www.mobilecellphonerepairing.com 38 Identification of PCB 8. Power Section. 9. Power IC: In the Power Section, the IC around which there are several brown-coloured capacitors, is
called Power IC. In some mobile phones there are 2 Power IC. 10. CPU: In the power section, the largest IC is the CPU. In some sets there are 2 Power IC. 11. Flash IC: This IC is found beside the CPU. In the Power Section, the
IC beside R22 is the Charging IC. 14. Audio IC: The IC parallel to Power IC is the Audio IC. 15. UEM = Logic IC + Charging IC + Audio IC + Power IC 16. PFO = Antenna Switch + PFO 17. Flash IC www.mobilecellphonerepairing.com 40 www.mobilecellphonerepairing.com 41 Definition of Big Parts 1. Antenna Switch: It is found in
the Network Section of a Mobile Phone and is made up of metal and non-metal. In GSM sets it is found in golden metal. Work: It searches network in the mobile phone. www.mobilecellphonerepairing.com
42 Definition of Big Parts 2. P.F.O: It is found near the Anteena Switch in the Network Section of a Mobile Phone. It is also called P.A (Power Amplifier) and Band Pass Filter. Work: It filters and amplifies network frequency and selects the home network. Faults: If the PFO is faulty then there will be no network in the mobile phone. If it gets short then
the mobile phone will get dead. www.mobilecellphonerepairing.com 43 Definition of Big Parts 3. RF IC / Hager / Network IC: It is found near the PFO in the Network Section of a Mobile Phone. It is also called RF signal processor. Work: It works as transmitter and receiver of audio and radio waves according to the instruction from the CPU. Faults: If
the RF IC is faulty then there will be problem with network in the mobile phone. Sometimes mobile phone can even get dead. www.mobilecellphonerepairing.com 44 Definition of Big Parts 4. 26 MHz Crystal Oscillator: It is found near the PFO in the Network Section of a Mobile Phone. It is also called Network Crystal. It is made up of metal. Work: It
creates frequency during outgoing calls. Faults: If this crystal is faulty then there will be no outgoing call and no network IC in the Metwork Section of a Mobile Phone. Work: It sends time, date and voltage to the RF IC / Hager and
the CPU. It also creates frequency after taking command from the CPU. Faults: If it is faulty then there will be no network in the mobile phone and it will display "Call End" or "Call Failed". www.mobilecellphonerepairing.com 46 Definition of Big Parts 6. RX Filter: It is found in the Network Section of a Mobile Phone. Work: It filters frequency during
incoming calls. Faults: If it is faulty then there will network problem during outgoing calls. 7. TX Filter: It is found in the Network Section of a Mobile Phone. Work: It filters frequency during outgoing calls. Faults: If it is faulty then there will network problem during outgoing calls. Taults: If it is faulty then there will network problem during outgoing calls. Taults: If it is faulty then there will network problem during outgoing calls.
ROM: It is found in the Power Section of a Mobile Phone. Work: It loads current operating program in a Mobile Phone and the set will get dead. www.mobilecellphonerepairing.com 48 Definition of Big Parts 9. RAM: It is found in the Power Section of a Mobile Phone. Work:
It sends and receives commands of the operating program in a mobile phone. Faults: If RAM is faulty then there will be software problem in the mobile phone and it will get frequently get hanged and the set can even get dead. www.mobilecellphonerepairing.com 49 Definition of Big Parts 10. Flash IC: It is found in the Power Section of a Mobile
Phone. It is also called EEPROM IC, Memory IC, RAM IC and ROM IC. Work: Software of the mobile phone will not work properly and it can even get dead. www.mobilecellphonerepairing.com 50 Definition of Big Parts 11. Power IC: It is found in the Power Section of a
Mobile Phone. There are many small components mainly capacitor around this IC. RTC is near the Power IC work: It takes power from the battery and supplies to all other parts of a mobile phone. Faults: If Power IC is faulty then the set will get dead. www.mobilecellphonerepairing.com 51 Definition of Big Parts 12. Charging IC: It is found in the
Power Section near R22. Work: It takes current from the charger and charge the battery. Faults: If Charging IC is short then the set will get dead. www.mobilecellphonerepairing.com 52 Definition of Big Parts 13. RTC (Simple Silicon Crystal): It is found in the Power Section near Power IC.
It is made up of either metal or non-metal. It is of long shape. Work: It helps to run the date and time in a mobile phone and the set can even get dead. www.mobilecellphonerepairing.com 53 Definition of Big Parts 14. CPU: It is found in the Power Section. It is also called
MAD IC, RAP IC and UPP. It is the largest IC on the PCB of a Mobile Phone and it looks different from all other ICs. Work: It controls all sections of a mobile phone will get dead. www.mobilecellphonerepairing.com 54 Definition of Big Parts 15. Logic IC / UI IC: It is found in any section of a mobile phone
It has 20 pins or legs. It is also called UI IC and Interface IC. Work: It controls Ringer, Vibrator and LED of mobile phone will nor work properly. www.mobilecellphonerepairing.com 55 Definition of Big Parts 16. Audio IC: It is found in Power Section of a mobile
phone. It is also called Cobba IC and Melody IC. Work: It controls Speaker and Microphone of a mobile phone will not work and the set can even get dead. www.mobilecellphonerepairing.com 56 Identification of Small Parts 1. Crystal: There are 2 types of crystal in a mobile
phone: i) Network Crystal: This crystal is found in the Network Section of a Mobile Phone. It is made up of metal. Work: It filters network Crystal is found in the Network Crystal is found in the Power Section of a
mobile phone. It is made up of either metal or non-metal and is of long shape. Work: It runs the clock of a mobile phone will not work and the set can get dead. www.mobilecellphonerepairing.com 57 Identification of Small Parts 2. Coupler Coupler: This
electronic component is found in the Network Section of a mobile phone. It is of either black or white colour and has 6 pins bent inside. Work: It filters network. Faults: If the coupler is faulty then there will be no network in the mobile phone. www.mobilecellphonerepairing.com 58 Identification of Small Parts 3. Diode: Diodes are of 4 types:i)
Rectifier Diode: It is found in black colour and converts AC Current to DC Current. It passes current in one direction. It does not pass current in one direction. It found in white or light yellow colour and emits light. iii) Zener Diode: It is found in charging section. It filters and minimize current and passes forward. It acts as voltage
regulator. Zenor diode has fixed capacity like 4V, 6V, 8V etc. iv) Photo Diode: It is used for Infrared Rays. www.mobilecellphonerepairing.com 59 Identification of Small Parts 4. Transistor: This electronic component is found in any section of a mobile phone. It is of black colour and it has 3 legs. It does the work of switching. 5.
Regulator: This electronic component is found in any section of a mobile phone. It is of black colour and has 5 or 6 legs. It filters current and regulates voltage. www.mobilecellphonerepairing.com 60 Identification of Small Parts 6. Resistance: There are 2 types of resistance on a the PCB of a mobile phone: a) Chip Resistance: It can be found in any
section of a mobile phone. It is of black colour. In some sets it is also found in blue and green colour. It is the smallest electronic components on the PCB of a mobile phone. It is made from 2 or more Chip Resistance.
www.mobilecellphonerepairing.com 61 Identification of Small Parts 7. Capacitor: 3 types of capacitor: 1t is found in any section of a mobile phone. It's height is little more than chip resistance. It can be of light black, yellow or brown in colour. It has no Positive (+) or Negative (-) side. It filters
DC current. b) Electrolytic Capacitor: It is found in any section of a mobile phone. It's size is larger than non-electrolytic capacitor: It is found in 2 colours – (i) Orange with brown strip: and (ii) Black with white strip is Positive(+) and the other side with the strip is Positive(-). It filters and stores current. c) Network Capacitor: It is found in
any section of a mobile phone. It is made from 2 or more Non-Electrolytic Capacitors. www.mobilecellphonerepairing.com 62 Identification of Small Parts 8. Coil: It is found in any section of a mobile phone. It is found in any section of a mobile phone. It is found in any section of a mobile phone and white; and (ii) Blue and white. It has binding of copper coil inside
It filters and decreases Current and Voltage. Boost Coil: It's size is little bigger than coil. It is found in black colour and look like button. It increases current. If this coil gets damaged then it has to be changed. www.mobilecellphonerepairing.com 63 Identification of Small Parts Electronic Components that Will Give Beep When Tested with Multimeter
on Buzzer Mode. If Component is Good If Component is Faulty 1. Speaker 1. Microphone 2. Coil 2. Capacitor, coil, diode, transistor
etc. There are 2 types of ICs - (i) Leg-Type IC; and (ii) BallType IC. Counting of Ball-type IC: Counting of Ball-type IC: Counting of Ball-type IC is done in Both Clockwise and Anti-
Clockwise Direction. Rows are counted in Digit Numbers (1,2,3,4...) in Clockwise Direction. Columns are Counted in Alphabet (A,B,C,D...) in Anti-Clockwise Direction. NOTE: When counting Columns, "I" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are omitted because they look like "1" and "O" are om
of Voltage: Volt (V). Current: Flow of Electric Charge through a Conductive Medium. Types of Current (AC): The Movement of Electric Charge is in One Direction.
E.g. Power from Battery. www.mobilecellphonerepairing.com 67 Circuit (CKT) Symbol 1. AC Current: 8. Diode: 2. DC Current: 9. LED: 3. Capacitor: 10. Transistor: 11. Crystal: 12. Regulator: 4. 5. 6. Coil: Fuse: Resistance: www.mobilecellphonerepairing.com 68 Ringer: Type of component that rings or plays loud sound is
called Ringer. It is also called by several other names like - I.H.F Speaker, Buzzer, Melody etc. Faults: 4. Ringer not working. Less sound from the Ringer Settings in Mobile Phone. Check Ringer Volume and Silent Mode. (See Video)
Open Mobile Phone and Clean Ringer Point and Ringer Point and Ringer Connector. (See Video) Check Ringer IC. Heat or Change the Ringer Section. Do Jumper Wherever required. (See Video) Check Ringer IC. Heat or Change
if Required. (See Video) UEM / Logic IC: Heat, Reball or Change. (See Video) CPU: Heat, Reball or Change the Ringer IC. www.mobilecellphonerepairing.com 69 Vibrator: Faults & Solution Vibrator: Type of
component that vibrates. It is also called Motor. Vibrator is controlled by Logic IC or Power IC. Faults: 1. 3. Vibrator not working. Vibrator settings in Mobile Phone and Clean Vibrator Tips Connector. Check Vibrator by Keeping the
Multimeter in Buzzer Mode. Value must be 8~16 Ohm. If the Value is not between 8~16 Ohm. If the Value is not
Solution LED: Type of component that generates light in the Mobile Phone. These are Faults: 1. 3. No Light. Light section of a Mobile Phone: (i) Series Connection; and (ii) Parallel Connection. Change
Display and Check. Keep Multimeter in Buzzer Mode and Check LED. If LED is Good then it will Glow. If LED is Faulty then it will Not Glow. Change LED or Jumper. Check Boosting Coil and Change LED or Jumper if Required. Light IC: Heat or Change. Power IC: Heat, Reball of Change. 2. 2. 3. 4. 5. 6. 7. 8. 9. generally LED or Jumper. Check Boosting Coil and Change LED or Jumper if Required. Light IC: Heat or Change. Power IC: Heat, Reball of Change. 2. 2. 3. 4. 5. 6. 7. 8. 9. generally LED or Jumper. Check Boosting Coil and Change LED or Jumper if Required. Light IC: Heat or Change. Power IC: Heat or Change. Power
Light Emitting Diode. www.mobilecellphonerepairing.com 71 Light: Faults & Solution Note: 1. In all Nokia Mobile Phones, there are 2 Types of Light IC: Beside the Boosting Coil, There is a SmallSized Ball-Type IC. When this IC is Desoldered, There are 8 Ball Underneath. This is the Light IC. (ii) Leg-Type Light IC: Beside the
Boosting Coil, There is a SmallSized, 4+4 = 8-Leg-Type IC. This is Light IC = Back Light IC = Back Light IC = Back Light IC = Solution Earpiece: Type of component that helps to listen to sound during phone call. It is Faults: also called Speaker or Ear Speaker. Earpiece is controlled by Audio IC or
Power IC (UEM). 3. No sound during phone call. Less sound during phone call. Less sound during phone call. Less sound during phone call. Sound with interruption. Solution: 1. 2. 1. 2. 3. 4. 5. Check Speaker Volume during phone call. Less sound during phone call. Less sound during phone call. Less sound during phone call. Sound with interruption.
Check Track of Earpiece Section. Do Jumper Wherever required. UEM / Audio IC: Heat, Reball or Change. CPU: Heat, Reball or Change the speaker. www.mobilecellphonerepairing.com 73 Microphone: Faults & Solution Microphone: Type of component that helps to
transmit sound from one mobile phone to another during phone call. Faults: 2. No sound or Less Sound during phone call. Sound with interruption or Changed sound. Solution: 1. 1. 2. 3. 4. 5. 6. 7. Check Microphone settings. Check and clean Microphone Tips and Connector. Check Microphone by Keeping the Multimeter in Buzzer Mode. Value must
be 600~1800 Ohm. If the Value is not between 600~1800 Ohm then change the Microphone Section. Do Jumper Wherever required. Microphone IC: Heat or Change. UEM / Audio IC / Power IC: Heat, Reball or Change. CPU: Heat, Reball or
Change. Note: 1. If there is less sound or sound is not clear during phone call then change the Microphone of the Mobile Phone Gets
Disconnected. Headphone is controlled by C.P.U. Faults: 2. No sound from the Headphone or sound from the Headphone Connector. Check Track
of Headphone Section. Do Jumper Wherever required. Headphone IC: Heat, Reball or Change. UEM / Audio IC / Power IC: Heat, Reball or Change. CPU: Heat, Reball or Change. CPU: To solve the problem, clean or change the Headphone Connector OR
Short the Headphone Connector. www.mobilecellphonerepairing.com 75 Keypad: Type of component that helps to operate a mobile phone. Some Morking or only Some Key Working. Keys need more pressure to work. Or when pressed a key works
continuously. One key is pressed and some other key works OR when one key is pressed, some other key works simultaneously. 2. 3. Solution: 1. Check Facial of the Keypad. Clean Keypad Tikli and Keypad Tikli and Keypad IC / Interface
IC: Heat or Change. CPU: Heat, Reball or Change 2. 3. 4. 5. Note: 1. 2. 3. In a Mobile Phone, when we press a Key and it works very slow then Reload Software to Solve the Problem. If Keypad problem is not solved by
Hardware, then Reload Software in the Mobile Phone to Solve the Problem. www.mobilecellphonerepairing.com 76 Screen Touch: Faults & Solution Screen Touch: Type of component that helps to operate a mobile phone by touching the screen. Touch Screen Touch: Type of component that helps to operate a mobile phone by touching the screen.
Touch is also called PDA. It is controlled by the CPU. In some Mobile Phones there is an Interface IC called PDA IC or Screen Touch Works. One key is pressed and some other key works. Solution: 1. Check Settings if the Mobile Phone has Both Keypad and Touch Screen. Clean and
Resold PDA Tips and PDA Connector. Change PDA. Check Track of the PDA Section and Jumper if Required. PDA IC: Heat or Change. 2. 2. 3. 4. 5. 6. Note: 1. If the PDA Problem is not solved by Hardware Then Reload Software to Solve the Problem. www.mobilecellphonerepairing.com 77 Screen Touch: Faults & Solution
Note: 2. Construction of PDA: 3. Any PDA of SAME Size will Fit any Mobile Phone is controlled by the CPU. In some Mobile Phones, there is an Interface IC called Display IC
between the Display and the CPU. Faults: 1. Nothing shows on the Display Working. Display W
Display Connector. Change the Display Track. Resold or Change Display IC. C.P.U: Heat, Reball or Change and Solution Note: If the Display is Up-Side Down or only Half Display is Working or if the Display is Broken then Change the Display. If the Display is Up-Side Down or only Half Display is Up-Side Down 
White and the Display is changed but the problem is not solved then Reload Software in the Mobile Phone. In some Mobile Phone Sets, like Nokia 6600, N72, when the set is Switched ON, the Nokia 6600, N72, when the set is Switched ON, the Nokia 6600, N72, when the set is Switched ON, the Nokia 6600 is not solved then Reload Software in the Mobile Phone Sets, like Nokia 6600, N72, when the set is Switched ON, the Nokia 6600 is not solved then Reload Software in the Mobile Phone Sets, like Nokia 6600 is not solved then Reload Software in the Mobile Phone Sets, like Nokia 6600 is not solved then Reload Software in the Mobile Phone Sets, like Nokia 6600 is not solved then Reload Software in the Mobile Phone Sets, like Nokia 6600 is not solved the Nokia 6600 is not s
then it is mainly because of Display Track (Patta) that connects the Display with the Mobile Phone PCB. This will create White Display will not work properly. Change the Display Track to solve the problem. www.mobilecellphonerepairing.com 80
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