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LED TV Repairing Course

What will you learn in this course?

- ❖ Learn about All Basic Electronics Parts of Normal & Smart LED TV.
- ❖ Learn about Complete Schematic Diagram of Normal & Smart LED TV.
- ❖ Complete software Solution of Normal & Smart LED TV.
- ❖ How to use BIOS RT809F/H Programmer.
- ❖ How to download free all types of software flash file from website.
- ❖ Data & Signal Level Checking with DSO/CRO Machine.
- ❖ Normal & smart LED TV Assembling and disassembling.
- ❖ How to convert LCD TV to LED TV & Smart TV.
- ❖ All types of Problems Solution for Normal & Smart LED TV.
- ❖ Latest Smart/Android Logic Board Repairing Tricks & tips.
- ❖ Hidden Trick of Normal & Smart LED TV Repairing.
- ❖ All Section Repairing & Solution of Normal & Smart LED TV.
- ❖ How to repair Dead Normal & Smart LED TV.
- ❖ How to Convert Normal TV to Smart/ Android TV.
- ❖ How to repair hang on Logo problem.
- ❖ Complete IC Chip Level Training.

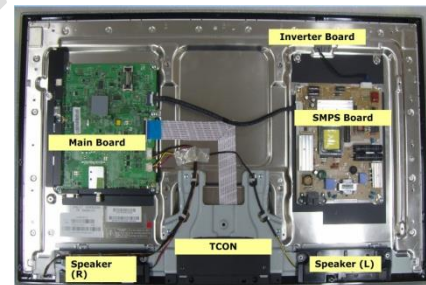
- ❖ How to Repair BACKLIGHT SECTION OF Normal & Smart LED TV.
- ❖ How to programmer Normal & Smart LED TV with help of Pen drive.
- ❖ How To repairing and bypass PFC Section.
- ❖ How to repair No display, white Display, Black display problem.
- ❖ Horizontal and Vertical line related problem solutions
- ❖ How to Bypass DC to DC IC in t-con & scaler board
- ❖ How to repair T-con and Scaler board with hidden tricks.
- ❖ How to repair No Sound, Bad sound of Normal & Smart LED TV
- ❖ How to repair remote not working problem Normal & Smart LED TV.
- ❖ Soldering & De-soldering & Reballing IC and Components.
- ❖ We provide all LED TV software free for our students.
- ❖ How to install new android and universal board.
- ❖ How to install another panel in SONY TV.
- ❖ How to repair Mirror and mapping problem of Normal/ Smart LED TV.
- ❖ Understanding and testing voltage regulator.
- ❖ What is dump file & how to use it.
- ❖ What is datasheet & how to download from website.
- ❖ What is service code & service manual.
- ❖ How to repair Wi-fi problem.
- ❖ No power Led TV & Smart TV Repair
- ❖ No Display Led tv & smart TV repair
- ❖ No picture but sound OK , TV repair
- ❖ Dim display led tv & smart TV repair
- ❖ Stand by lighting blinking problem solutions
- ❖ Led tv & smart tv On/Off & restarting problems solutions
- ❖ Display broken & damage tv repair
- ❖ Display Lining (horizontal & vertical) problem solutions
- ❖ Late tv on problems solutions
- ❖ Negative (black & white) picture problems solutions
- ❖ Display spot (dot) problems solutions
- ❖ Screen lock problems solutions
- ❖ How to repair all type of remote

SYLLABUS

➤ Basic Electronics

- ✓ Introduction of (Volt, current, Watt, Ohms)
- ✓ Introduction of (AC/DC)
- ✓ How to Use Digital Multimeter

- ✓ **Identification of Electronics Components**
 - Resistor, Capacitor, Transistor, Mosfet, Diode, Crystal, IC, Transformer, Fuse, Jumper, Thermistor, Switch, Coil etc.
- ✓ **Resistor**
 - Working Concept of Resistor
 - Types of Resistors
 - Symbol, Unit, Denoting Letter of Resistor
 - Resistor Color Coding Concept
 - SMD Resistor Value
 - How to test Resistor on motherboard
- ✓ **Capacitor**
 - What is Capacitor?
 - Types of Capacitors.
 - What is Symbol, unit and Denoting Letter of Capacitor
 - Series and Parallel concept of Capacitor
 - Inboard and outboard Capacitor Testing
- ✓ **Diode**
 - Working Concept of Diode
 - How many types of Diodes ?
 - Denoting Letter and Symbol of Diode
 - Bridge Rectifier Diode Concept
 - Testing of all types of Diode on motherboard
- ✓ **Transistor**
 - Working concept of Transistor on motherboard
 - Transistor Types
 - What is Symbol and Denoting Letter of Transistor
 - SMD and Normal Transistor Identification
 - Onboard Testing of SMD and Normal Transistor
- ✓ **Coil**
 - Identification of Difference types of Coils
 - Working of Coil (Inductor)



- Types of Coil
- Symbol, unit, Denoting Letter Concept of Coil
- Ok Testing of all types of Coil

✓ **Mosfet**

- Concept of SMD Mosfet
- Working concept of 3 pin, 6 pin, 8 pin Mosfet on motherboard
- Types of Mosfet
- What is Denoting letter and symbol of Mosfet
- Gate, Drain, Source pin Details
- Onboard Testing of all Types of Mosfet

✓ **IC / Chip**

- Working Concept of IC/Chip
- Identification of Difference Types of IC
- IC ok Testing on board

✓ **Transformer**

- Working Difference Types of Transformers
- Working of Transformer
- Symbol, Denoting Letter Concept of Transformer
- Testing Concept of Transformer

✓ **Crystal**

- Working Concept of Crystal
- RTC Crystal
- Symbol, unit, Denoting Letter Concept of Crystal
- Testing of Crystal by Multimeter and CRO Machine

✓ **Fuse**

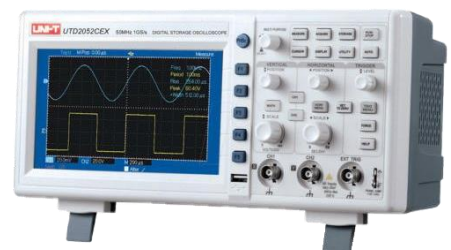
- Working Concept
- Symbol, Denoting Letter Concept of Fuse
- Testing and Repair Concept of Fuse

✓ **Thermistor**

- Types of Difference Thermistor
- Working of Thermistor
- Testing Concept of Thermistor
- NTC, PTC Thermistor

✓ **Varistor**

- Types of Difference Varistor
- Working of Varistor
- Testing Concept of Varistor



➤ Soldering & De-Soldering Practice

- ✓ How to remove & sold all types of components in tv
Like- capacitor, transistor, Mosfet, crystal, coil, diode, fuse etc.?
- ✓ How to fix all electronics components on motherboard easily?
- ✓ How to remove and fix all types of IC/Chip from smart tv board?
- ✓ How to remove and fix all types of port, connector, slot, socket

➤ Power Supply (Identify, Working, Tracing, Testing & Repairing)

- ✓ EMI Section
- ✓ PFC Section
- ✓ STR Section
- ✓ Transformer
- ✓ Output Secondary Section.



➤ Backlight Section (Identify, Working, Tracing, Testing & Repairing)

- ✓ Inverter Section (Use for CCFL)
- ✓ Driver Section (Use for LED Bulb)

➤ Logic Board (Identify, Working, Tracing, Testing & Repairing)

- ✓ About Voltage details and distribute in Logic board.
- ✓ How to check and repair voltage regulator 12v, 5v, 3.3v, 2.5v, 1.8v, 1.2v & 1v.
- ✓ Micro controller Chip & Type
 - Voltage required for Micro controller
 - Micro controller connection with other section
 - Micro controller input and output section
 - Micro controller problem/solution
- ✓ BIOS Section
 - What is BIOS?
 - BIOS Section Voltage Required.
 - BIOS Pin out details.
 - How to read/write BIOS.
- ✓ RAM Section
 - Types of RAM



- RAM Voltage required.
- RAM Section related fault and solution.
- ✓ Crystal
 - Use of Crystal in LED TV.
 - Check Crystal with DSO/ CRO Machine.
 - Crystal related fault and solution.
- ✓ Connector and Ports (USB, HDMI, VGA, A/V, Earphone jack, R/F)
- ✓ Sound Section
 - Voltage Required
 - Amplifier IC Pin details
 - Check Speaker
 - About Speaker Watts.
- ✓ IR and Keypad section
 - Voltage required of IR and Keypad section
 - IR and Keypad related fault and solution
 - Replace IR and Keypad
- ✓ WiFi Section (WiFi, Hotspot, Bluetooth)
 - WiFi Section voltage required
 - WiFi Section related problem and solution
 - Install new WiFi module
- ✓ GPU Section
 - What is GPU?
 - GPU section voltage required
 - GPU section related fault and solution
- ✓ LVDS Section
 - How to working LVDS Section
 - LVDS Signal and Track
 - LVDS Signal testing Onboard and Offboard
 - Types and Different of LVDS Cable



➤ T- CON and Scaler Board (Identify, Working, Testing, Repairing)

- ✓ Types and Different of T-CON and Scaler Board
- ✓ Voltage Required and LVDS signal
- ✓ T-CON IC
- ✓ BIOS IC/Panel ID/Flash IC
- ✓ DC to DC IC
- ✓ Gamma IC
- ✓ Scanner/Level Shifter IC
- ✓ Regulator IC



- ✓ FFC/FPC/COF
- ✓ Source COF and Gate COF
- ✓ Panel
- ✓ Panel Diagram and working



➤ **Advance Level Repairing with Machine**

- ✓ **BIOS PROGRAMMER:** How to use BIOS programmer for LCD, LED TV Bios chips.
- ✓ **CRO/DSO MACHINE:** How to use CRO Machine for checking all signal on motherboard like reset signal, clock signal, bios signal and frequency?
- ✓ **DC MACHINE:** How to check various voltage from DC Power Supply machine?
- ✓ **SMD TESTER:** How to check all electronics components with SMD TESTER
- ✓ **MICROSCOPRE:** How to track and repair Logic board using microscope
- ✓ **BACKLIGHT TESTER:** How to use backlight tester for back light strip & SMD led bulb
- ✓ **PANAL TESTER:** How to check display panel with panel tester
- ✓ **BOARD TESTER:** How to use board tester with normal & smart tv board
- ✓ **BYPASS/MODULER:** how to use & bypass with external modular.

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Our Repairing Courses

MOBILE | LAPTOP | CCTV | LED TV | PRINTER
MOBILE EMMC | E-RICKSHAW CONTROLLER & CHARGER