

ECC	Issue 17
European Service HHP Service Equipment	ECC G020

Purpose

Samsung Electronics requires any authorised Level 1, 2 or 3 Service Centre to be adequately equipped with the correct basic tools/equipment. The necessity to provide the correct type, quantity and maintained tools/equipment provide a high level of service to Samsung customers.

The below list outlines the basic tools and equipment Samsung Electronics expects a Service Centre to have at each accredited stage.

Equipment	Image	Suggested Manufacturer	Level 1	Level 2	Level 3
RF Calibration capable equipment HP 8960 or CMU 200		Rhode and Schwarz or Agilent			x
RF Calibration for LTE Rhode and Schwarz CMW 500 (if required)		Rhode and Schwarz			x
RF Shielding Boxes		Aeroflex (Willtek)		x	x
Spectrum Analyzer 3GHz minimum		Tektronix, Agilent, Aeroflex (Willtek), Rhode and Schwarz, Advantest			x
Digital Power Supply		Agilent 3632A			x
NFC Tester		Batter Fly Part No BF001356	x	x	x
GPIB card and 2 GPIB cables		National Instruments			x
Oscilloscopes (500MHz minimum)		Tektronix, Fluke			x
BGA Machine		Martin, OK International, PDR			x
Fume extraction equipment for soldering		OK International, Weller	x	x	x

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Oven				x	x
Refrigerator					x
x10 minimum Microscope or USB Camera		Vision Engineering etc			x
ESD safe/ionized compressed air supply		Bondline, Wolfgang Warmbier		x	x
PCB Holder		Samsung			x
Zebra Printer or equivalent		Zebra			x
J-TAG with all ARM licences as required for Samsung models		Lauterbach			x
GSM/UMTS Test Equipment Aeroflex (Willtek) 2200, 3100, 3110, 4400 series, 7100 LTE Tester (if required)		Aeroflex (Willtek),		x	x
Battery Testing Equipment		Cadex, Astratec; Astratec Xpress TEST for Tablets.		x	x
Soldering Irons – RoHS Compliant		Weller, OK International, Metcal, Pace		x	x
Hot Air controlled rework equipment		OK International, Hakko		x	x
DVM (Digital Multimeter)		Fluke, Agilent		x	x

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Variable Power Supply 20 Volts at 4+ Amps				x	x
Samsung Anyway S100 Jig, S101 Jig, S102 Jig		Samsung	x	x	x
Flash Discharger Audible		Micro Tools Europe	x	x	x
Charged Plate Monitor		Wolfgang Warmbier		x	x
High resistance Meter Kit		Metriso, AVO	x	x	x
PC, minimum spec, windows XP (not vista)			x	x	x
Torque Screwdrivers			x	x	x
Torque Meter/Tester/Calibrator			x	x	x
Test U-SIM Card		Rhode and Schwarz or Willtek	x	x	x
ESD Testing Equipment		Bondline, Treston, Wolfgang Warmbier	x	x	x
Humidity and Temperature Data logger		Rotronic, Voltcraft, Vaisala	x	x	x

All hand tools must be ESD Compliant						
Screwdrivers				x	x	x

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Plectrum/Opening Tools		Samsung	x	x	x
Pliers			x	x	x
Solder Wick			x	x	x
Cleaning Brush			x	x	x
Solder Flux			x	x	x
PCB Cleaner Isopropyl			x	x	x