

Nokia Customer Care

4 - Service Tools

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List of Recommended Service Tools

■ New service tools for RA-2/3


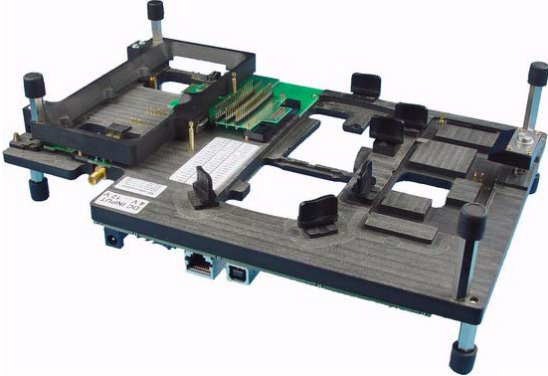
| Type | Short description | Code |
|--------|------------------------------------|---------|
| DA-14 | Docking station adapter for JBV-1. | 0780366 |
| MJ-19 | Module repair jig | 0780372 |
| MJS-76 | LGA re-work jig | 0770417 |
| RJ-16 | Soldering jig | 0770417 |
| RJ-71 | Repair jig | 0780486 |
| RJ-72 | Repair jig | 0780488 |
| RJ-73 | Repair jig | 0780490 |
| SA-33 | RF adapter | 0770800 |
| SA-49 | RF coupler | 0770866 |
| SES-3 | LGA rework stencil | 0770558 |
| ST-26 | Repair stencil | 0780487 |
| ST-28 | Repair stencil | 0780489 |
| ST-29 | Repair stencil | 0780491 |

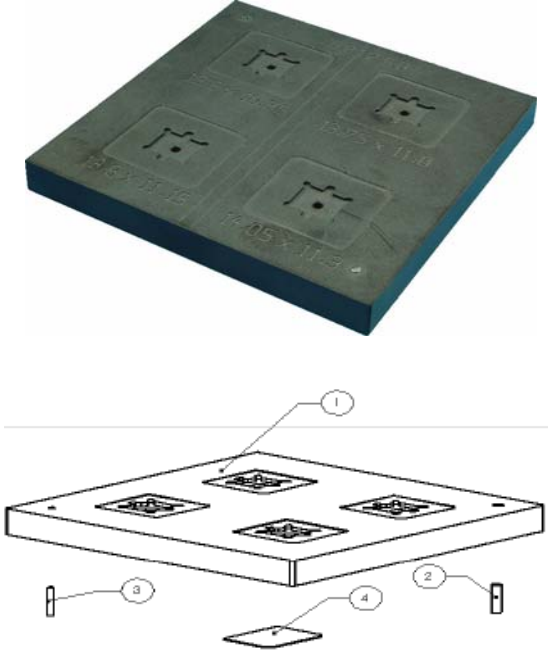


■ Re-used service tools

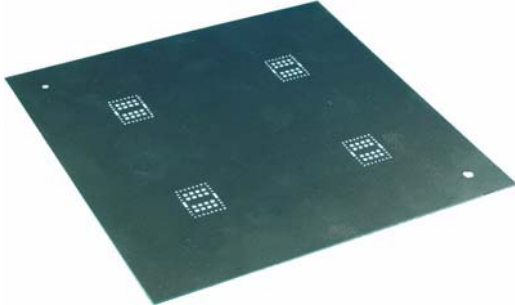
| Type | Short Description | Code |
|---------|---|---------|
| ACF-8 | Universal power supply | 0680032 |
| ACP-8E | Charger output: 5.3V DC, 500 mA; Europe. Version | 0675195 |
| ACP-8U | Charger output: 5.3V DC, 500 mA; US. Version | 0675196 |
| AXP-8 | Parallel bi-directional printer cable (part of FPS-8 sales package) | 0730298 |
| AXS-4 | Serial cable 9 pol. Sub-D (part of FPS-8 sales package) | 0730090 |
| CA-28DS | Service data cable, XCS-1 with USB lines connected | 0730319 |
| DAU-9S | Serial data cable 9 pole Sub-D f <=> 8 pole modular connector | 0730108 |
| DKU-2 | Connectivity cable | 0730238 |
| FLC-2 | Power supply cable, Banana connectors to 3,5 mm DC plug, 1,2 meters | 0730185 |
| FLS-4S | POS flash prommer for E&A incl. ACF-8 power supply | 0080541 |
| FLS-4S | POS flash prommer for for APAC incl. ACF-8 power supply | 0080542 |

| Type | Short Description | Code |
|--------|--|---------|
| FLS-4S | POS flash prommer for for US incl. ACF-8 power supply | 0080543 |
| FPS-8 | Flash prommer to be used with SF-14 or JBV-1 plus product specific adapter. Sales pack includes: FPS-8 prommer, FPS-8 SW activation & installation instr., FPS-8 activation sheet, power supply ACF-8, AXS-4 service cable (2x 9 pol. Sub-D), AXP-8 Bi-directional | 0080321 |
| FPS-10 | Flash prommer to be used with SF-14 or JBV-1 plus product specific adapter. Sales pack includes: FPS-10 prommer, FPS-8 SW activation & installation instr., FPS-10 activation sheet, power supply ACF-8, AXS-4 service cable (2x 9 pol. Sub-D), AXP-8 Bi-directional | 0086189 |
| FPS-11 | Multiprommer | 0770758 |
| JBT-9 | Bluetooth test & interface box | 0081490 |
| JBV-1 | Flash/Test docking station with generic data&power interfaces | 0770298 |
| PCS-1 | Power cable for FPS-8 with 2 x Banana connectors to 5,5 mm DC plug. | 0730012 |
| PKD-1 | Software security dongle for service SW | 0750018 |
| CA-5S | DC cable | 0730283 |
| SF-14 | POS flash adapter to be used with FLS-4S / FPS-8 flash adapter | 0780368 |
| SS-34 | Flex opening tool | 0780396 |
| XCS-4 | Modular cable for e.g. connection between FPS-8 and SF-14. | 0730178 |
| XRF-1 | RF cable | 0730085 |




New Service Tools for RA-2/3


| Type/ Code | Description | Picture |
|------------------|--|--|
| DA-14 0780366 | <p>The DA-14 docking station adapter makes signal connections to the phone. JBV-1 and DA-14 are used as one unit.</p> <p>JBV-1 main electric functions are:</p> <ul style="list-style-type: none"> - adjustable VBATT calibration voltage, current measurement limit voltage "VCHAR", current measurement calibration current "ICHAR". - adjustable ADC calibration voltage via BTEMP and BSI signal. - BTEMP and BSI calibration resistor. - Signals from FBUS to the phone via parallel jig - Control via FBUS or USB. - Flash OK/FAIL indication. |  <p>The image shows a black, rectangular DA-14 docking station adapter. It has a gold-plated connector on the top surface and a USB port on the side. The device is designed to interface with a mobile phone for testing purposes.</p> |
| MJ-19 0780372 | <p>Module jig MJ-19 is designed for module level testing. It can be used for testing at engine level for the following:</p> <ul style="list-style-type: none"> - flashing - RF - battery - system - display, - keyboard - USB - SIM/MMC reader |  <p>The image shows the MJ-19 module jig, which is a complex, multi-layered testing fixture. It consists of a base plate with various components, including a green printed circuit board (PCB) with gold-plated contacts, and several black plastic components that hold the phone module in place. The jig is designed to facilitate testing of the phone's internal components at the engine level.</p> |

| Type/ Code | Description | Picture | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|----------------|---------------|----------------|-----|---|-------|--|----------|---|---|----------------------|---------|--|---|---|----------------------|---------|--|---|---|------------|---------|--|---|---|
| <p>MJS-76 0770417</p> | <p>This tool is used in LGA type component reworking purposes in central service centers.</p> <p>Parts list</p> <table border="1"> <thead> <tr> <th>Part number</th> <th>Name of Part</th> <th>Material code</th> <th>Drawing number</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Frame</td> <td></td> <td>SME5S910</td> <td>1</td> </tr> <tr> <td>2</td> <td>Cylindrical pin 3x12</td> <td>640b003</td> <td></td> <td>1</td> </tr> <tr> <td>3</td> <td>Cylindrical pin 3x12</td> <td>640B012</td> <td></td> <td>1</td> </tr> <tr> <td>4</td> <td>Type label</td> <td>9380601</td> <td></td> <td>1</td> </tr> </tbody> </table> | Part number | Name of Part | Material code | Drawing number | Qty | 1 | Frame | | SME5S910 | 1 | 2 | Cylindrical pin 3x12 | 640b003 | | 1 | 3 | Cylindrical pin 3x12 | 640B012 | | 1 | 4 | Type label | 9380601 | | 1 |  |
| Part number | Name of Part | Material code | Drawing number | Qty | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Frame | | SME5S910 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Cylindrical pin 3x12 | 640b003 | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Cylindrical pin 3x12 | 640B012 | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Type label | 9380601 | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| <p>RJ-16 0770417</p> | <p>RJ-16 soldering jig is used for soldering and as a rework jig for 1BT engine module.</p> |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>SA-49 0770866</p> | <p>SA-49 is a coupler for RF testing. SA-49 is used with DA-14.</p> |  | | | | | | | | | | | | | | | | | | | | | | | | | |




| Type/ Code | Description | Picture |
|------------------|--------------------------------|--|
| SES-3 0770558 | SES-3 is a LGA rework stencil. |  |
| ST-26 0780487 | Repair stencil | Picture not available. |
| ST-28 0780489 | Repair stencil | Picture not available. |
| ST-29 0780491 | Repair stencil | Picture not available. |
| RJ-71 0780486 | Repair jig | Picture not available. |
| RJ-72 0780488 | Repair jig | Picture not available. |
| RJ-73 0780490 | Repair jig | Picture not available. |




Re-used Service Tools




| Type/ Code | Description | Picture |
|------------------|--|--|
| JBV-1 0770298 | <p>The JBV-1 docking station has been designed for calibration and software update use.</p> <p>In calibration mode, JBV-1 is powered by an external power supply 11-16V DC. In flashing mode, power for the phone can be taken from FPS-8 or external power supply 11-16V DC.</p> |  |
| SF-14 0780368 | <p>SF-14 POS flash adapter is used in POS (Point of Sales) environment for software updates. It provides controlled supply voltage and necessary connections between the phone and the flash prommer. It substitutes for the phone's standard battery during the software update.</p> <p>Voltage limits 3.6 - 4.2V.</p> |  |
| FPS-8 0080321 | <p>The flash prommer FPS-8 is used, for example, with SF-14, DA-14 and JBV-1. Power is supplied to FPS-8 from the universal power supply.</p> <p>Sales pack includes:</p> <ul style="list-style-type: none"> - FPS-8 prommer (0750123) - FPS-8 SW activation & installation instructions - FPS-8 activation sheet (9359289) - ACF-8 power supply (0680032) - AXS-4 service cable (D9-D9) (0730090) - Printer cable (0730029) |  |



| Type/ Code | Description | Picture |
|-------------------|---|--|
| FPS-10 0086189 | <p>The flash prommer FPS-10 is used, for example, with SF-14, DA-14 and JBV-1. Power is supplied to FPS-8 from the universal power supply.</p> <p>Sales pack includes:</p> <ul style="list-style-type: none"> - FPS-10 prommer () - FPS-10 SW activation & installation instructions - FPS-8 activation sheet (9359289) - ACF-8 power supply (0680032) - AXS-4 service cable (D9-D9) (0730090) - Printer cable (0730029) |  |
| FPS-11 0770758 | <p>8 x parallel flash prommer box</p> <p>The parallel flash prommer FPS-8C is used for example with SF-14, DA-14 and JBV-1. Flash programming can be done to maximum of 8 phones parallel.</p> |  |
| JBT-9 0081490 | <p>Bluetooth test & interface box</p> <p>The JBT-9 test box is a generic device to perform Bluetooth Bit Error Rate testing and doing cordless FBUS connection via Bluetooth. An ACP-8x charger is needed for BER testing and AXS-4 cable in case of cordless testing interface usage.</p> <p>Sales package includes:</p> <ul style="list-style-type: none"> - JBT-9 test box (0770336) - SMA stub antenna (066P056) - Installation and warranty information (9360613) |  |
| FLS-4S 0080541 | <p>POS flash prommer for E&A incl. ACF-8 power supply</p> |  |
| FLS-4S 0080542 | <p>POS flash prommer for APAC incl. ACF-8 power supply</p> | |
| FLS-4S 0080543 | <p>POS flash prommer for US incl. ACF-8 power supply</p> | |

| Type/ Code | Description | Picture |
|-------------------|---|---|
| PKD-1 0750018 | Software security dongle for service SW |  |
| ACF-8 0680032 | ACF-8 universal power supply is used to power FPS-8. ACF-8 has 6V DC and 2.1A output. |  |
| ACP-8U 0675196 | Charger (for U.S.) Output: 5.3V DC, 500 mA; US Version |  |
| ACP-8E 0675195 | Charger (for Europe) |  |

| Type/ Code | Description | Picture |
|-------------------|--|--|
| DAU-9S 0730108 | <p>Serial data cable with modular connector. 9 pole Sub-D f <=> 8 pole modular</p> <p>The MBUS cable DAU-9S has a modular connector and is used for example between the PC's serial port and module jig MJ-19.</p> |  |
| XCS-4 0730178 | <p>Modular cable for e.g. connection between FPS-8 and DA-14.</p> <p>XCS-4 is a shielded (one specially shielded conductor) for flashing and service purposes.</p> |  |
| FLC-2 0730185 | <p>Power supply cable from FPS-8 to SF-14.</p> <p>Banana connectors to 3,5 mm DC plug, 1,2 meters.</p> <p>FLC-2 is used to supply a controlled operating voltage.</p> |  |

| Type/ Code | Description | Picture |
|--------------------------|---|--|
| <p>PCS-1 0730012</p> | <p>Power cable to connect e.g. JBV-1 to FPS-8. 2 x Banana connectors to 5,5 mm DC plug.</p> |  |
| <p>XRF-1 0730085</p> | <p>RF cable to connect e.g. module repair jig to RF measurement equipment. SMA to N-Connector ca. 610mm. Attenuation for - GSM850/900: 0.3+-0.1 dB - GSM1800/1900: 0.5+-0.1 dB - WLAN: 0.6+-0.1dB</p> |  |
| <p>AXS-4 0730090</p> | <p>The AXS-4 D9-D9 service cable is used to connect two 9 pin D connectors e.g. between PC and FPS-8. Cable length is 2 meters.</p> |  |

| Type/ Code | Description | Picture |
|------------------|---|---|
| CA-5S 0730283 | DC cable for a phone to JBV-1 connection, used in EM calibration, for example. |  |
| AXP-8 073F000 | The parallel printer cable connects the parallel connector of the PC and the parallel input of the FPS-8. |  |
| DKU-2 0730238 | Connectivity cable |  |

| Type/ Code | Description | Picture |
|--------------------|--------------------|---|
| CA-28DS 0730319 | Service data cable |  A black service data cable with a USB connector on one end and a multi-pin connector on the other. |
| SS-34 0780396 | Flex opening tool |  A black and teal flex opening tool, which is a long, thin, curved metal strip with a hook-like end. |