



**NEW**

# FX-971 SOLDERING STATION

The new **HAKKO FX-971 Soldering Station** is the future of soldering, bringing together precision and innovation with the quality, reliability and power Hakko is known for. A 100W stackable station with a minimal footprint to maximize your workbench space, both a standard and micro handpiece, and an all-new holder for removing and storing tips. This newly designed stackable soldering station provides operators with a 15-degree face tilt, large LCD screen, multi-button functionality, and works with the new Hakko Control Software.



SOLDERING



## FEATURES & BENEFITS

- Lightweight and compact 100W soldering station
- Efficient soldering performance with new user interface
- New Hakko Control Software allows for easy parameter set up, as well as data logging
- Large, easy-to-read LCD with a 15-degree face plate tilt
- Password lockout feature for process control
- Iron holder with built-in tip holder and tip exchange features
- Works seamlessly with the FG-100B/101B Tip Thermometer for measuring and wirelessly offsetting the tip temperature to the station



## SPECIFICATIONS For Part No. FX971-010

STATION	
<b>Voltage</b>	AC 24 V
<b>Power Consumption</b>	100 W
<b>Temperature Range</b>	120 °F – 850 °F / 50 °C – 450 °C
<b>Temperature Stability</b>	±5 °F / ±3 °C at idle
<b>Outer Dimensions (W x H x D)</b>	3.7 x 5 x 4.8 in. / 93 x 126 x 133 mm
<b>Weight (w/o Cord)</b>	2.6 lb / 1.2 kg
<b>Included Handpiece</b>	FX-9701 (P/N: FX9701-81) <a href="#">see page 22</a>

## FX971-010 SOLDERING STATION SET

Includes everything shown in picture.



**IRON HOLDER**  
P/N: FH215-010

**STATION**

**CD-ROM with PC SOFTWARE**

**USB CABLE**  
P/N: B5129

**SOLDERING HANDPIECE**  
P/N: FX9701-81

**POWER CORD**  
P/N: B2419



## CONTENTS For Part No. FX971-010 (Complete Kit w/ Station, Handpiece & Iron Holder)

Part No.	Description
--	FX-971 soldering station
<b>FX9701-81</b>	FX-9701 soldering handpiece
<b>FH215-010</b>	FH-215 iron holder w/ cleaning sponge & wire
<b>B5129</b>	USB cable
<b>B2419</b>	Power cord
--	Instruction manual
--	CD-ROM for PC software

## 4 COMPATIBLE HANDPIECES

\* All handpieces sold separately.  
*Available also in N2.*



**FX-9701**  
STANDARD

**FX-9702**  
\*STANDARD N2

**FX-9703**  
MICRO

**FX-9704**  
\*MICRO N2

## HAKKO CONTROL SOFTWARE



New HAKKO Control Software allows the operator to set parameters, profiles and record offset & temperature data (from a PC). To download the Hakko Control Software visit us at: <https://hakkousa.com> or Scan the QR Code.



For more information Scan QR Code.

COMING SOON

# FX-972

## DUAL-PORT SOLDERING STATION

The new **Hakko FX-972 Dual-Port Soldering Station** is a 200W soldering station that has the power to utilize multiple handpieces for various operator needs. The FX-972 supports 8 different types of handpieces including regular and micro soldering irons, rework tweezers, micro rework tweezers, heavy-duty soldering irons, and nitrogen handpieces as well. In addition, the FX-972 uses a large LCD display, intuitive user interface, wireless IR temperature offsetting, and works with the new Hakko Control Software for data logging capabilities.



SOLDERING



### FEATURES & BENEFITS

- A 200W dual port soldering station
- Compatible with 8 different handpieces (see below)
- Large, easy-to-read LCD with a 15-degree face plate tilt
- Password lockout feature for process control
- Iron holder with built-in tip holder and tip exchange features
- Works seamlessly with the FG-100B/101B Tip Thermometer for measuring and wirelessly offsetting the tip temperature on the station



### SPECIFICATIONS For Part No. FX972-011

STATION	
Voltage	AC 24 V
Power Consumption	200 W
Max Temperature Range	120 °F – 940 °F / 50 °C – 500 °C *Varies w/ handpiece
Temperature Stability	±5 °F / ±3 °C at idle
Outer Dimensions (W x H x D)	5 × 5.9 × 5.4 in. / 126 × 151 × 136 mm
Weight (w/o Cord)	6.2 lb / 2.8 kg

### FX972-011 SOLDERING STATION ONLY

Includes everything shown in picture.

#### CD-ROM for PC SOFTWARE



#### USB CABLE P/N: B5129



#### COLOR BAND P/N: B5348



#### STATION



### CONTENTS For Part No. FX972-011 (Station Only)

Part No.	Description
--	FX-972 soldering station
<b>B5348</b>	Color band
<b>B5129</b>	USB cable
<b>B2419</b>	Power cord
--	Instruction manual
--	CD-ROM for PC software

### 8 COMPATIBLE HANDPIECES

\* All handpieces sold separately. Available also in N2.



### HAKKO CONTROL SOFTWARE



New HAKKO Control Software allows the operator to set parameters, profiles and record offset & temperature data (from a PC). To download the Hakko Control Software visit us at: <https://hakkousa.com> or Scan the QR Code.



For more information Scan QR Code.



For more information  
Scan QR Code.

# FX-9701

## STANDARD SOLDERING HANDPIECE

The new **HAKKO FX-9701 Standard Handpiece** works with the FX-971 & FX-972 Soldering Stations. An ergonomic, lightweight, 95W handpiece with over 60 tip varieties. The FX-9701 perfectly accompanies the new FX-971 aesthetic and no longer requires the interchanging of grips. *\*Tips Sold Separately.*

SOLDERING

### FEATURES & BENEFITS

- 95W Soldering Handpiece
- Single piece handpiece with built-in sleep mode sensor
- Offering a wide variety of T39 tips for various soldering applications

### SPECIFICATIONS For Part No. FX9701-81

HANDPIECE	
Tip Series	T39 Series see page 22-24
Station Compatibility	FX-971 see page 20 & FX-972 see page 21
Power Consumption	95 W / 24 VAC
Tip-to-Ground Resistance	< 2 Ω
Leak Voltage	< 2 mV
Heating Element	Composite heater

### FX9701-011 STANDARD SOLDERING HANDPIECE KIT

Includes everything shown in picture.



**IRON HOLDER**  
w/ Brass Wire & Sponge  
P/N: FH215-010

**SOLDERING HANDPIECE**  
P/N: FX9701-81

### CONTENTS For Part No. FX9701-011 (Complete Kit w/ Handpiece & Holder)

Part No.	Description
FX9701-81 FH215-010	FX-9701 standard handpiece only Holder + brass wire & cleaning sponge

Also Available: **FX-9702** Part No. FX9702-81  
**N<sub>2</sub> COMPATIBLE STANDARD SOLDERING IRON**  
see page 37

## T39 SERIES TIPS

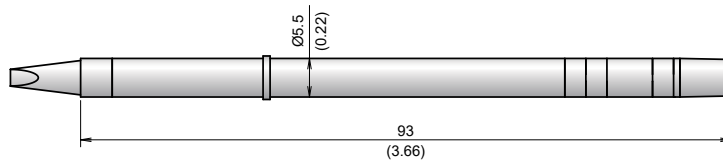


### T39 SERIES TIPS FOR USE WITH THE FX-9701 & FX-9702 HANDPIECES

UNIT: mm(inch)

<b>T39-B02</b> (Conical)  Nozzle Assy F <b>N<sub>2</sub> B5295</b>	<b>T39-B05</b> (Conical)  Nozzle Assy G <b>N<sub>2</sub> B5296</b>	<b>T39-B07</b> (Conical)  Nozzle Assy C <b>N<sub>2</sub> B5292</b>	<b>T39-BC1020</b> (Bevel)  Nozzle Assy I <b>N<sub>2</sub> B5298</b>
<b>T39-BC1530</b> (Bevel)  <b>N<sub>2</sub> B5297</b>	<b>T39-BC2040</b> (Bevel)  <b>N<sub>2</sub> B5297</b>	<b>T39-BC2535</b> (Bevel)  Nozzle Assy H <b>N<sub>2</sub> B5297</b>	<b>T39-BC3065</b> (Bevel)  <b>N<sub>2</sub> B5297</b>

# T39 SERIES TIPS



## T39 SERIES TIPS FOR USE WITH THE FX-9701 & FX-9702 HANDPIECES

UNIT: mm(inch)

SOLDERING

<b>T39-BC3545</b> (Bevel)  Nozzle Assy E <b>N2 B5294</b>	<b>T39-BCF1020</b> (Bevel)  Nozzle Assy I <b>N2 B5298</b>	<b>T39-BCF2535</b> (Bevel)  Nozzle Assy H <b>N2 B5297</b>	<b>T39-BCF3545</b> (Bevel)  Nozzle Assy E <b>N2 B5294</b>
<b>T39-BCM2535</b> (Bevel)  Nozzle Assy H <b>N2 B5297</b>	<b>T39-BCM3545</b> (Bevel)  Nozzle Assy E <b>N2 B5294</b>	<b>T39-BL02</b> (Conical)  Nozzle Assy K <b>N2 B5333</b>	<b>T39-BLL02</b> (Conical)  Nozzle Assy I <b>N2 B5298</b>
<b>T39-BS02</b> (Conical)  	<b>T39-BS03</b> (Conical)  	<b>T39-C1020</b> (Bevel)  Nozzle Assy J <b>N2 B5332</b>	<b>T39-C1025</b> (Bevel)  Nozzle Assy J <b>N2 B5332</b>
<b>T39-C4055</b> (Bevel)  Nozzle Assy E <b>N2 B5294</b>	<b>T39-CF4055</b> (Bevel)  Nozzle Assy E <b>N2 B5294</b>	<b>T39-D08</b> (Chisel)  Nozzle Assy G <b>N2 B5296</b>	<b>T39-D12</b> (Chisel)  Nozzle Assy G <b>N2 B5296</b>
<b>T39-D16</b> (Chisel)  Nozzle Assy G <b>N2 B5296</b>	<b>T39-D24</b> (Chisel)  Nozzle Assy D <b>N2 B5293</b>	<b>T39-D32</b> (Chisel)  Nozzle Assy D <b>N2 B5293</b>	<b>T39-D4</b> (Chisel)  Nozzle Assy B <b>N2 B5291</b>
<b>T39-D52</b> (Chisel)  Nozzle Assy B <b>N2 B5291</b>	<b>T39-DL32</b> (Long Chisel)  	<b>T39-DL4</b> (Long Chisel)  	<b>T39-DL52</b> (Long Chisel)  
<b>T39-DLS15</b> (Chisel)  	<b>T39-I02</b> (Conical)  Nozzle Assy J <b>N2 B5332</b>	<b>T39-IL02</b> (Conical)  Nozzle Assy K <b>N2 B5333</b>	<b>T39-ILS015</b> (Conical)  Nozzle Assy K <b>N2 B5333</b>
<b>T39-J02</b> (Bent)  Nozzle Assy I <b>N2 B5298</b>	<b>T39-JL02</b> (Bent)  	<b>T39-JS02</b> (Bent)  	<b>T39-JD08</b> (Bent)  



# T39 SERIES TIPS



## T39 SERIES TIPS FOR USE WITH THE FX-9701 & FX-9702 HANDPIECES

UNIT: mm(inch)

SOLDERING

T39-JD14 (Bent)	T39-JD16 (Bent)	T39-K (Knife)	T39-KF (Knife)
T39-KL (Knife)	T39-KR (Knife)	T39-KU (Knife)	T39-SP104 (Spatula)
T39-SP157 (Spatula)	T39-SP212 (Spatula)	T39-BCR1235 (Grooved)	T39-BCR12 (Grooved Bevel)
T39-BCR16 (Grooved Bevel)	T39-BCR24 (Grooved Bevel)	T39-BCR32 (Grooved Bevel)	T39-BCR4 (Grooved Bevel)
T39-BCR52 (Grooved Bevel)	T39-DR12 (Grooved Chisel)	T39-DR16 (Grooved Chisel)	T39-DR24 (Grooved Chisel)
T39-DR32 (Grooved Chisel)	T39-DR4 (Grooved Chisel)	T39-DR52 (Grooved Chisel)	T39-DS24 (Short Chisel)
T39-DS32 (Short Chisel)	T39-DS4 (Short Chisel)	T39-DS52 (Short Chisel)	 For more information Scan QR Code.





# FX-9703

## MICRO SOLDERING HANDPIECE

For more information  
Scan QR Code.



The new **HAKKO FX-9703 Micro Soldering Handpiece** works with the FX-971 & FX-972 Soldering Stations. A precision micro soldering iron with quick recovery time and 70W of power. This micro handpiece is ideal for soldering micro components especially when soldering under a microscope. 8 different tip variations for soldering components. The FX-9703 Micro Handpiece is the latest innovation in micro soldering.

*\*Tips Sold Separately.*

SOLDERING



### FEATURES & BENEFITS

- 70W Micro Soldering Handpiece
- The slim and shorter handpiece is an ideal option for operators working under the microscope
- Offering 8 T50 tip types for all your micro soldering needs



### SPECIFICATIONS For Part No. FX9703-81

HANDPIECE	
Tip Series	T50 Series <a href="#">see below</a>
Station Compatibility	FX-971 <a href="#">see page 20</a> & FX-972 <a href="#">see page 21</a>
Power Consumption	70 W / 24 VAC
Tip-to-Ground Resistance	< 2 Ω
Leak Voltage	< 2 mV
Heating Element	Composite heater

### FX9703-011 MICRO SOLDERING HANDPIECE KIT

Includes everything shown in picture.



The **HAKKO FT-720 Tip Cleaner** provides quick and effective cleaning of soldering iron tips with sensor activated counter-rotating brushes, which remove tip oxides, debris, and excess solder without damaging the tip plating.  
*\*Sold Separately*



**IRON HOLDER  
w/ Brass Wire & Sponge**  
P/N: FH215-011



### CONTENTS For Part No. FX9703-011 (Complete Kit w/ Micro Handpiece & Holder)

Part No.	Description
<b>FX9703-81</b> <b>FH215-011</b>	FX-9703 Micro handpiece Holder + brass wire & sponge

Also Available: **FX-9704** Part No. **FX9704-81**  
**N<sub>2</sub> COMPATIBLE MICRO SOLDERING IRON** [see page 37](#)

## T50 SERIES TIPS



**MICRO SOLDERING  
HANDPIECE**  
P/N: FX9703-81



### T50 SERIES TIPS FOR USE WITH THE FX-9703 & FX-9704 HANDPIECES

UNIT: mm(inch)

Tip Part No.	Tip Shape	Dimensions (mm)	Dimensions (inch)	Notes
<b>T50-D02</b>	(Chisel)	Tip diameter: 0.2 (0.008), Length: 5.5 (0.22)	Tip diameter: 0.1 (0.004), Length: 0.1 (0.004)	Nozzle Assy A: N2 B5337, Nozzle Assy B: N2 B5338
<b>T50-D04</b>	(Chisel)	Tip diameter: 0.4 (0.02), Length: 5.5 (0.22)	Tip diameter: 0.2 (0.008), Length: 0.2 (0.008)	Nozzle Assy A: N2 B5337, Nozzle Assy B: N2 B5338
<b>T50-D06</b>	(Chisel)	Tip diameter: 0.6 (0.024), Length: 6 (0.24)	Tip diameter: 0.2 (0.008), Length: 0.2 (0.008)	Nozzle Assy A: N2 B5337, Nozzle Assy B: N2 B5338
<b>T50-D1</b>	(Chisel)	Tip diameter: 0.1 (0.004), Length: 6 (0.24)	Tip diameter: 0.2 (0.008), Length: 0.2 (0.008)	Nozzle Assy A: N2 B5337, Nozzle Assy B: N2 B5338
<b>T50-I01</b>	(Conical)	Tip diameter: 0.1 (0.004), Length: 5.5 (0.22)	Tip diameter: 0.1 (0.004), Length: 0.1 (0.004)	Nozzle Assy A: N2 B5337, Nozzle Assy B: N2 B5338
<b>T50-J01</b>	(Bent)	Tip diameter: 0.1 (0.004), Length: 3 (0.12)	Tip diameter: 0.1 (0.004), Length: 0.1 (0.004)	Nozzle Assy A: N2 B5337
<b>T50-KU</b>	(Knife)	Tip diameter: 0.15 (0.006), Length: 7 (0.28)	Tip diameter: 0.1 (0.004), Length: 0.1 (0.004)	Nozzle Assy A: N2 B5337
<b>T50-KN</b>	(Knife)	Tip diameter: 0.15 (0.006), Length: 8.5 (0.33)	Tip diameter: 0.8 (0.03), Length: 0.8 (0.03)	Nozzle Assy A: N2 B5337

**Note:** Nozzle Assy A & B may be used with the T50 tips (D02, D04, D06, D1 & I01). Use Nozzle Assy A when using the tip parallel to the board or when Nozzle Assy B interferes with surrounding components.

Nozzle Assy A



Nozzle Assy B



For more information [Scan QR Code.](#)





COMING SOON

# FX-9705

## REWORK TWEEZERS



The new **HAKKO FX-9705 Rework Tweezers** is the latest handpiece to work for use with the FX-972 dual port soldering station. Designed for the removal of small surface mount components, this lightweight, ergonomic handpiece delivers 190W of power to ensure the job gets done efficiently. The FX-9705 has two levels of adjustment capabilities built-in. *\*Tips Sold Separately.*

SOLDERING



### FEATURES & BENEFITS

- 190W Rework Tweezers
- Superior thermal performance
- Quick thermal recovery and light weight ergonomic design
- Two levels of adjustments: Vertical and Forward



### SPECIFICATIONS For Part No. FX9705-81

HANDPIECE	
Tip Series	T51 Series <i>see below</i>
Station Compatibility	FX-972 <i>see page 21</i>
Power Consumption	190 W / 24 VAC
Tip-to-Ground Resistance	< 2 Ω
Leak Voltage	< 2 mV
Heating Element	Composite heater

### FX9705-011 REWORK TWEEZERS KIT

Includes everything shown in picture.

### REWORK TWEEZERS P/N: FX9705-81



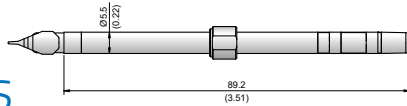
**IRON HOLDER**  
w/ Brass Wire & Sponge  
P/N: FH220-013



### CONTENTS For Part No. FX9705-011 (Complete Kit w/ Rework Tweezers & Holder)

Part No.	Description
FX9705-81 FH220-013	FX-9705 rework tweezers only Holder + brass wire & sponge

## T51 SERIES TIPS



2 LEVELS OF  
TIP ALIGNMENT:



VERTICAL



FORWARD

For more information  
Scan QR Code.



### T51 SERIES TIPS FOR USE WITH THE FX-9705 REWORK TWEEZERS (T51 series tips all sold as pairs)

UNIT: mm(inch)

<b>T51-C05</b> (Chip)	<b>T51-I05</b> (Chip)	<b>T51-L1</b> (Chip)	<b>T51-L2</b> (Chip)
<b>T51-L3</b> (Chip)	<b>T51-L6</b> (SOP)	<b>T51-L8</b> (SOP)	<b>T51-L10</b> (SOP)
<b>T51-L13</b> (SOP)	<b>T51-L16</b> (SOP)	<b>T51-LA3</b> (Chip/Angled)	<b>T51-LA6</b> (SOP/Angled)
<b>T51-LA8</b> (SOP/Angled)	<b>T51-LA10</b> (SOP/Angled)		



For more information  
Scan QR Code.

COMING SOON

# FX-9706 MICRO TWEEZERS



The latest **HAKKO FX-9706 Micro Tweezers** is designed to work specifically with the FX-972 Dual Soldering Station. The FX-9706 has quick thermal recovery performance and is excellent for micro SMD components. *\*Tips Sold Separately.*



## FEATURES & BENEFITS

- 140W Micro Tweezers
- Four levels of tip alignment:
  - 1) **Vertical:**  $\pm 1$  mm (Perfectly adjusts the tips for precision accuracy)
  - 2) **Horizontal:** 10mm (This allows for larger and much smaller components to be removed with a width range of 10 mm down to 0)
  - 3) **Forward:**  $\pm 1.5$  mm (Both left and right tips are adjustable to correct alignment)
  - 4) **Angle:**  $\pm 200$  deg (Rotating the tips give the operator better control of how they would like to remove the components, catering to preference)
- The handpiece is ESD safe with an ergonomic shape for comfort
- The holder includes built-in tip removal feature, stores up to 4 spare tips and makes changing out hot tips easy and convenient
- Sleep function that engages when the handpiece is placed in the holder



## SPECIFICATIONS For Part No. FX9706-81

HANDPIECE	
Tip Series	T52 Series <i>see below</i>
Station Compatibility	FX-972 <i>see page 21</i>
Power Consumption	140 W / 24 VAC
Tip-to-Ground Resistance	< 2 $\Omega$
Leak Voltage	< 2 mV
Heating Element	Composite heater



## CONTENTS For Part No. FX9706-011 (Complete Kit w/ Micro Tweezers & Holder)

Part No.	Description
FX9706-81	FX-9706 Micro tweezers only
FH215-014	Holder + brass wire & sponge

## FX9706-011 MICRO TWEEZER KIT

Includes everything shown in picture.



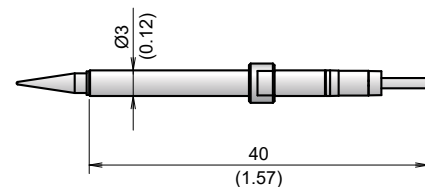
**IRON HOLDER**  
w/ Brass Wire & Sponge  
P/N: FH215-014

**MICRO TWEEZERS**  
P/N: FX9706-81

## 4 LEVELS OF TIP ALIGNMENT:



For more information  
Scan QR Code.



## T52 SERIES TIPS



## T52 SERIES TIPS FOR USE WITH FX-9706 MICRO TWEEZERS (T52 series tips all sold as pairs)

UNIT: mm(inch)

T52-I005	(Conical)	T52-I015	(Conical)	T52-J005	(Bent)	T52-J015	(Bent)
T52-K	(Knife)	T52-L1	(Chip)	T52-L2	(Chip)	<p>For more information Scan QR Code.</p>	





COMING SOON

# FX-9707

## HEAVY-DUTY HANDPIECE



For more information  
Scan QR Code.

The **HAKKO FX-9707 Heavy-Duty Handpiece** is for the FX-972 Dual Soldering Station. The FX-9707 is a 200W iron meant for use on larger mass components and large heat sinks. *\*Tips Sold Separately.*

SOLDERING



### FEATURES & BENEFITS

- 200W Heavy-Duty Soldering Handpiece
- Single piece handpiece with built-in sleep mode sensor
- Offering 14 different T53 tips for all your heavy-duty soldering needs



### SPECIFICATIONS For Part No. FX9707-81

HANDPIECE	
Tip Series	T53 Series <a href="#">see below</a>
Station Compatibility	FX-972 <a href="#">see page 21</a>
Power Consumption	200 W / 24 VAC
Tip-to-Ground Resistance	< 2 Ω
Leak Voltage	< 2 mV
Heating Element	Composite heater

### FX9707-011 HEAVY-DUTY SOLDERING HANDPIECE KIT

Includes everything shown in picture.



**IRON HOLDER**  
w/ Brass Wire & Sponge  
P/N: FH220-82

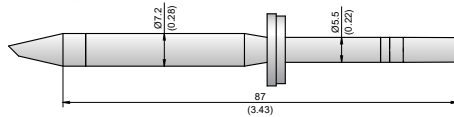
**SOLDERING  
HANDPIECE**  
P/N: FX9707-81



### CONTENTS For Part No. FX9707-011 (Complete Kit w/ Heavy-duty handpiece & Holder)

Part No.	Description
<b>FX9707-81</b> <b>FH220-82</b>	FX-9707 Heavy-duty handpiece only Holder + brass wire & sponge

## T53 SERIES TIPS



Also Available: **FX-9708** Part No. FX9708-81

**N<sub>2</sub> COMPATIBLE HEAVY-DUTY SOLDERING IRON** [see page 37](#)



### T53 SERIES TIPS FOR USE WITH THE FX-9707 & FX-9708 HEAVY-DUTY HANDPIECES

UNIT: mm(inch)

T53-B05	(Conical)	T53-BC2030	(Bevel)	T53-BC4060	(Bevel)	T53-BC6090	(Bevel)
	Nozzle Assy A <b>N2 B5345</b>		Nozzle Assy A <b>N2 B5345</b>		Nozzle Assy C <b>N2 B5347</b>		Nozzle Assy C <b>N2 B5347</b>
	Nozzle Assy A <b>N2 B5345</b>		Nozzle Assy C <b>N2 B5347</b>		Nozzle Assy C <b>N2 B5347</b>		Nozzle Assy C <b>N2 B5347</b>
	Nozzle Assy C <b>N2 B5347</b>		Nozzle Assy B <b>N2 B5346</b>		Nozzle Assy B <b>N2 B5346</b>		Nozzle Assy B <b>N2 B5346</b>
	Nozzle Assy B <b>N2 B5346</b>		Nozzle Assy B <b>N2 B5346</b>				

For more  
information  
Scan QR Code.

