# Weller®

Founded in 1945, Weller has become the world's leading supplier of professional quality soldering equipment, including the famous Weller temperature controlled irons and soldering guns. Weller makes advanced soldering and desoldering stations and irons for sophisticated industrial needs, plus a series of handy soldering and miniature power tool kits for home craftsmen, hobbyists and light industry.
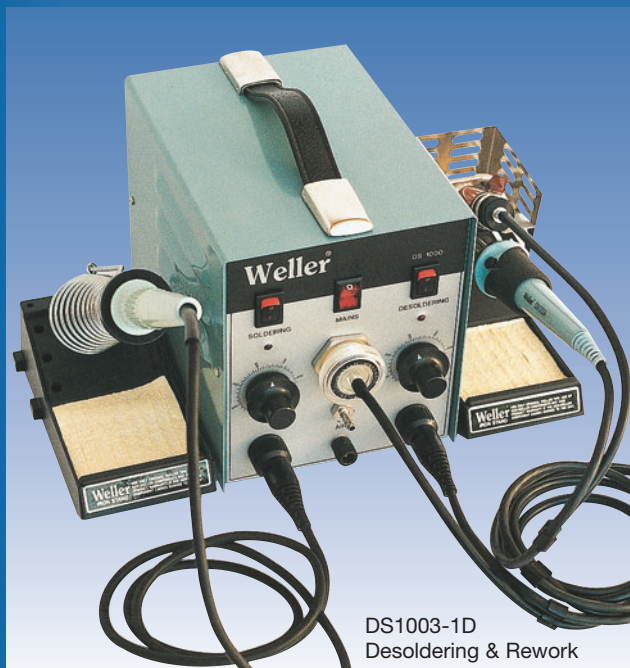
DS1003-1D
Desoldering & Rework

WQB3000 BGA & QFP
Rework Station

WMD1 & Multi Purpose Station

WSD81 Temperature Controlled Station

Weller®

Magnastat Controlled Stations

The Weller Magnastat system operates through a ferro-magnetic sensing device which changes its characteristics when a specific temperature is reached. This causes it to either attract or repel a permanent magnet which operates a power supply switch. In this way power to the heating element can be quickly switched on or off to either provide extra power for soldering operations or reduced power when idling. Working temperature selection is achieved by simply changing the 'temperature sensing' soldering tip. These are available in temperature ratings of 315°C, 371°C and 427°C. The tips are made of pure copper for effective heat conductivity. The heating element has an optimal heating effect on the tip. This is possible through high precision of the tubes, the winding and insulation, which means that the heating element should never be gripped with pliers or be hammered in any way. It is quite sufficient to secure the soldering tip by tightening it into the tip sleeve by hand (when the iron is cold).

Temperature Sensing Device   **Power Switch**

Tip   **Permanent Magnet**   **Power Supply**

AUSTRALIAN MADE
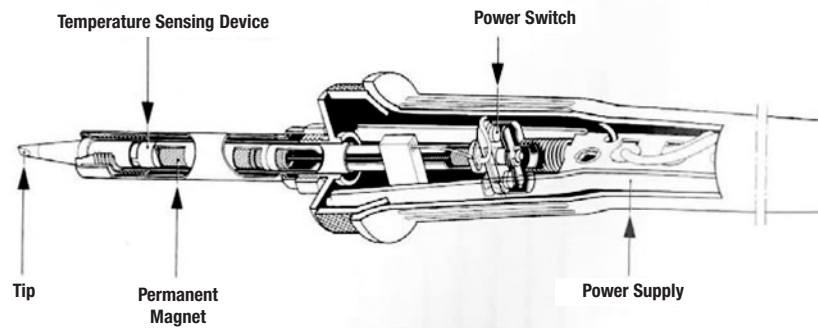
Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
WTCPTD	**332500**	■ 476441	1	Soldering station consists of: • TC202DT2 230V Power Unit • TC201B 42 Watt 24V Pencil • PH1201 Stand • 1.6mm 700°F/371°C tip

Exploded Drawing: see page 44
Soldering Tips: PT-Series see page 20

Electronically Controlled Stations

The Weller WES51D and WESD51D have been developed to provide precision electronic soldering at an affordable price.
The tip temperature is electronically controlled and is within a tolerance of +/- 3%.

WES51D	333966	■ 339661	1	An economical soldering station with High-End Performance.

Ideal for continuous production soldering.
• Analogue temperature control
• Temperature lockout
• Automatic shut off
• Slim comfortable pencil - reduced operator fatigue
• Temperature range 150°C-450°C
• Max. power output 50W
• Assembled in Australia
Soldering station consists of:
• WES51DPU 230V Power Unit
• PES51 50 Watt 24V Pencil
• PH50 Holder
• ETA tip

ESD SAFE

LEAD FREE 100 %

Exploded Drawing: see page 46
Soldering Tips: ET-Series see page 21

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description

Electronically Controlled Stations

| WESD51D | 333967 | ■ 339678 | 1 | Ideal for production, rework and repair of through hole SMT boards, some ground planes and multi-layer boards. |

ESD SAFE

LEAD FREE 100 %

• Digital microprocessor temperature control with LED display
• Wireless temperature lockout
• Automatic shut off
• Tip temperature offset
• °C-°F switchable
• Temperature range 150°C-450°C
• Max. power output 50W
• Assembled in Australia
Soldering station consists of:
  • WESD51DPU 230V Power Unit
  • PES51 50 Watt 24V Pencil
  • PH50 Holder
  • ETA tip

Exploded Drawing: see page 46
Soldering Tips: ET-Series see page 21

| WSD81 | 332974 | 4003019061327 | 1 | A new concept in soldering iron design. |

ESD SAFE

LEAD FREE 100 %

• Digital temperature control
• Temperature lockout
• Automatic shut off
• Unique miniature pencil
• Calibration box (WCB1 or WCB2) may be connected
• °C-°F switchable
• Temperature range 50°C-450°C
• Max. power output 80W
• Made in Germany
Soldering station consists of:
  • PUD81 230V Power Unit
  • WSP80 80 Watt 24V Pencil
  • WHP80 Holder
  • LT1 tip

Exploded Drawing: see page 47
Soldering Tips: LT-Series see page 22

| WSD161 | 332975 | 4003019061464 | 1 | A dual 80 watt power unit with all the features of the WSD81 station. |

ESD SAFE

LEAD FREE 100 %

This unit has provision for independent control of two tools.
• Digital microprocessor temperature control with LED display
• Automatic shut off
• Two unique miniature pencil
• Calibration box (WCB1 or WCB2) may be connected
• °C-°F switchable
• Temperature range 50°C-450°C
• Max. power output 160W
• Made in Germany
Soldering station consists of:
  • PUD161 230V Power Unit
  • 2 x WSP80 80 Watt 24V Pencils
  • 2 x WHP80 Holders
  • 2 x LT1 tip

Exploded Drawing: see page 48
Soldering Tips: LT-Series see page 22

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description

Electronically Controlled Stations

WSL — **330021** — ■ 300210 — 1

ESD SAFE

100 % LEAD FREE

The latest release from Weller.
High performance power unit with the radically new WMP micro tool.
• Digital microprocessor temperature control with LED display
• Super fast heat up and thermal recovery
• Automatic shut off
• Unique Micro pencil with a tip to grip length of only 35mm
• Calibration box (WCB1 or WCB2) may be connected
• °C-°F switchable
• Temperature range 50°C-450°C
• Max. power output 80W
• Made in Germany
Soldering station consists of:
• PUD81 230V Power Unit
• WMP 65 Watt 24V Pencil
• WMPH Holder
• NT1 tip

Exploded Drawing: see page 47
Soldering Tips: NT Series see page 23

WSD151 — **332976** — 4003019061457 — 1

ESD SAFE

100 % LEAD FREE

Extremely high output soldering station delivering 150 watts
• Digital microprocessor temperature control with LED display
• Automatic shut off
• Calibration box (WCB1 or WCB2) may be connected
• °C-°F switchable
• Temperature range 50°C-550°C
• Max. power output 150W
• Made in Germany
Soldering station consists of:
• PUD150 230V Power Unit
• WSP150 150 Watt 24V Pencil
• KH27 Holder
• LHT-F tip

Exploded Drawing: see page 49
Soldering Tips: LHT Series see page 24

The Weller Microtouch stations are distinguished by the fact that the required soldering temperature is reached at the needle-sized micro soldering tip extremely quickly and with great accuracy. A wide variety of soldering tips provides universal use. Tip exchange is quick and requires no tools. There are three operating modes: continuous, stand-by and touch mode. In continuous mode the set temperature is constantly held. In stand-by mode the tip temperature is reduced when not in use, to prolong tip life and to protect from thermal damage. In touch mode the element is switched on when the metal ring on the handle is touched.

MT1500D — **333387** — ● 110794 — 1

ESD SAFE

100 % LEAD FREE

• Rapid temperature rise (MT202 tip = 3 seconds)
• Quick tip change system - no tools required
• Excellent thermal capacity and immediate response to thermal loads
• Digital temperature control
• Three operating modes
• Temperature lockout
• Unique miniature pencil
• Temperature range 204°C-427°C
• Temperature stability +/- 6°C
• Max. power output 120W
• Large tip selection,
   from 0.25mm to PLCC68
• Sold without tip
• Made in USA
Soldering station consists of:
• 230V Power Unit
• MT1501, 24V Soldering Pencil
• MT1502 Holder & Leather
   tip changing pad

Exploded Drawing: see page 56
Soldering Tips: MT-Series see page 25

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COOPER Hand Tools

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Tool Selection Chart

Station	Tools													
	PES50	PES51	TC201	TC201B	WSP80	WMP	WSP150	EC1201A	EC1302B	WTA50	HAP1	WHPS80	DS1203A	DS80
WES51D		■												
WESD51D		■												
WES50D	■													
WTCPT			■											
WTCPTD				■										
WSD81					■	■		■	■	■		■		
WSL					■	■		■	■	■		■		
WSD161					■	■	■	■	■	■		■		
WSD151					■		■	■	■	■		■		
EC2002M								■	■	■				
EC1002S								■	■	■				
WMD3					■	■	■	■	■	■	■	■	■	■
WMD1A					■	■	■	■	■	■	■	■	■	■
WMD1D					■	■	■	■	■	■	■	■	■	■
DS1003-1D								■	■	■			■	

Cat. No./Reference	Product Code	APN/UPC	Shelf Pack	Description

Optional Accessories

Cat. No./Reference	Product Code	APN/UPC	Shelf Pack	Description
WSP80P	335484	■ 354848	1	The Weller WSP80 soldering pencil features a high precision and very fast heat up time. The ergonomic design and high performance of 80 watt iron allows soldering from fine jobs to heavy duty. • Temperature range 150°C-450°C • Power absorption 80W Consists of: • WSP80 soldering pencil • WPH80 support
WSP80	333112	4003019015788	1	WSP80 soldering pencil only See page 22 for LT tips
WMP	332475	● 191571	1	65 watt micro soldering pencil See page 23 for NT tips
WMP Set	332474		1	65 watt micro soldering pencil and stand
WPHT	332476	■ 324766	1	Stop & Go stand for WMP soldering pencil. The WPHT stand has an integrated micro switch to be activated by simply placing the soldering iron in the support. • Stop & Go function • Temperature setback to 150°C to extend tip life

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COOPER Hand Tools

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Cat. No./Reference	Product Code	APN/UPC	Shelf Pack	Description
WSP150 e	330037	4003019057467	1	150 watt soldering pencil for heavy duty work See page 24 for LHT tips
PES50	333958	● 161154	1	50 watt soldering iron to suit WES50D PH50 Stand not included
PES51	333969	■ 339692	1	50 watt soldering iron to suit WES51D and WESD51D See page 21 for ET tips PH50 Stand not included
EC1201AP	333732	■ 337332	1	EC1201A 40 watt soldering pencil with stand
EC1201A	333730	■ 337308	1	EC1201A 40 watt soldering pencil See page 21 for ET tips
EC1302BP	335018	■ 350185	1	EC1302B 20 watt miniature soldering pencil with stand
EC1302B	335017	■ 350178	1	EC1302B soldering pencil See page 21 for EPH tips
DSV80UNC	333213	● 089212	1	80 Watt Inline Desoldering Pencil See page 29 for DS and DSH tiplets Temperature range 50°C - 450°C Power absorption 80W AKV Stand not included
DS80UNC	333702	■ 334840	1	80 Watt Desoldering Pencil See page 29 for DS and DSH tiplets Temperature range 50°C - 450°C Power absorption 80W AK20 Stand not included

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Cat. No./Reference	Product Code	APN/UPC	Shelf Pack	Description
WTA-50 Set e	333810	■ 338107	1	The WTA-50 tweezers can be used with all Weller Temtronic/SL series stations. Dual heating elements with independent temperature sensors provide the tips with constant temperature. Temperature range 150°C - 450°C Output 2 x 25W Consists of: • Desolder Tweezer • AK51 Support • Hex Key Supplied with WT1 tip See page 26 for WT tips
HAP1 Set e	333420	■ 334208	1	100 Watt HAP1 Hot Air Pencil For both soldering and desoldering of SMD's. Temperature range 50°C - 550°C Power absorption 100W Consists of: • HAP1 hot air pencil • KH27 support • 1.2mm nozzle • Xcelite Nutdriver P8 MM See page 31 for nozzles
WHPS80 e	333403	4003019006281	1	Preheat plate • 80 watt • 50°C-200°C • 80 x 50mm • for use with WSD81, WSD151, WMD series
WSB80 e	335150	■ 351502	1	Solder bath 80 watt solder pot is very useful rework preparation tool. The solder bath is temperature controlled continuously between 50°C to 450°C via an existing 80W power source (WSD81, WMD series). The solder bath can be used to tin wire ends and leads of all extraneous solder particles in preparation for reworking. • 150x120x65mm • Warm up time (approx) 7 minutes
DS-7 e	333115	● 472007	1	Desoldering Head to suit TCP & TC tools
7805 e	387805	● 034984	1	Desoldering Bulb

Soldering pencils, Magnastat temperature controlled, low voltage

TC201B	332518	■ 475055	1	Magnastat Tool suits WTCPTD	42W 24V
TCP-12	332946	■ 480332	1	Magnastat Tool	40W 12V
TCP-50M	332950	■ 329501	1	Magnastat Tool	40W 50V
TC201	332505	■ 329505	1	Magnastat Tool suits WTCPS/T	40W 50V
				Exploded drawing for TC201B/201 page 44	

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Soldering pencils, temperature controlled, line voltage

W60D	333053	■ 474089	1	Magnastat Tool	60W 240V
W100D	333045	■ 474263	1	Magnastat Tool	100W 240V
W201D	333067	5012535150469	1	Magnastat Tool	200W 240V
				See page 30 for Tips	
				See page 57 for expoded view	

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description

Tool Stands

Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
PH1201	332529	■ 476496	1	TCP, TC, EC and SP tool stand
PH1201FE	332531	■ 325312	1	As per PH1201 but allows for fume extraction (not micro irons)
PH1301	332530	■ 476915	1	EC1302B tool stand
PH50	333957	● 161093	1	PES50 and PES51 tool stand
WPH80 e	335114	■ 351144	1	WSP80 and WSP81 tool stand
DS2010	333193	● 480125	1	Desoldering tool stand
PH1260	332527	■ 474010	1	W60D tool stand
PH12100	332528	■ 474027	1	W100D tool stand
AK51 e	332472	4003019056422		WTA50 stand
WPHM e	332477	■ 324773		WSL stand
WPHT e	332476	■ 324766		WSL Stop-Go stand
AK20	333546	■ 335465		Stand for DS80UNC
AKV	334136	■ 341367		Stand for DSV80UNC
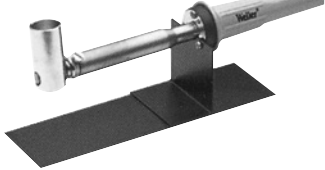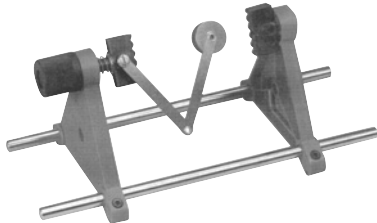
Fume Extraction Stands

Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
PH1201FE	332531	9337103325312	1	Stand for TC201 and EC Series
WPH80 e	335114	4003019014354	1	Stand for WST80 and WST81

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description

Soldering Aids

Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
W101H	333026	4003019005734	1	Miniature temperature controlled solder bath (330°C) with horizontal stand. 100W 230V Consists of: • 100W Solder Bath with Insert • Support for Solder Bath
ESF-120ESD	333606	■ 336066	1	Printed circuit board holder • Adjustable to Eurocard size • Suitable for holding irregular shaped cards • Component support
WPB1	333290	■ 590604	1	Polishing Bar • Rejuvenates tips without damage to the plated surface
WLSK200	347411	● 139634	1	Vacuum pen for easy pick up of small components. Fully self contained.

5 Core Rosin Solder Rolls

60% Tin, 40% Lead, 5 Core Rosin Solder on rolls

Cat. No./ Reference	Product Code	APN/UPC	Description
WS56MM100	330104	■ 301040	0.56mm / 1.00 grams
WS71MM100	330105	■ 301057	0.71mm / 100 grams
WS100MM100	330106	■ 301064	1.00 / 100 grams
WS91MM250	330108	■ 301088	0.91mm / 250 grams
WS71MM250	330109	■ 301095	0.71mm / 250 grams
WS100MM250	330110	■ 301101	1.00mm / 250 grams
WS71MM500	330111	■ 301118	0.71mm / 500 grams
WS100MM500	330112	■ 301125	1.00mm / 500 grams

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description

Electronic Temperature Measuring Equipment

Cat. No./ Reference		Product Code	APN/UPC	Shelf Pack	Description
WTT1	e	333807	4003019056255	1	Temperature measurement and calibration.

• Measures temperature without imposing thermal load.

The WTT1 digital temperature measuring system has been specifically designed for measuring the temperature of soldering iron tips. The probe has a double sensor system and internal heat source. The measured temperature is fed to a control system that records the flow of heat in the probe and stabilizes it with the aid of the internal heat source.

This design ensures that no heat is drawn by the probe from the object being measured. Erroneous measurements due to the large thermal load of the probe are thus prevented. The measured temperature is indicated on a three-digit LED display to a resolution of 1°C.

An adjustable preheat temperature ensures a rapid response even at high temperatures.
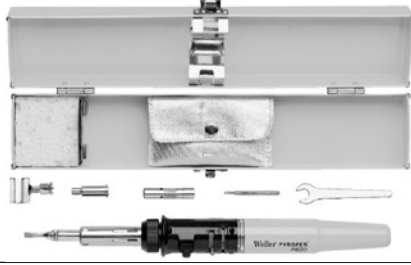
| WCB1 | e | 333802 | 4003019016365 | 1 | Calibrator/Programer for WSD81, WSL, WSD161, & WAD101 soldering stations. |

• Calibrates tip temperature to an external reference.
• Enables idle temperature setback mode (177°C)
• Enables operator lock out.
• Enables switching between °F and °C.
• Enables reset to factory calibration.

| WCB2 | e | 335116 | ■ 351168 | 1 | As for WCB1 with the following additional features: |

• Thermo couple input for automatic calibration.
• RS232 output

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description

Weller® Pyropen

WPA2	**337196**	■ 590437	1	Piezo ignition (self) lighting. Kit includes: • 1 x WPT-2 soldering tip • 1 x WHC-52 hot blow tip. • Metal kit box. See page 28 for tip selection
WSTA3	**337109**	■ 472283	1	Soldering, hot blow and torch flame facilities. Kit includes: • 1 x soldering tip • 1 x hot blow tip • torch ejector with tightening bar. • Metal Kit box. See page 28 for tip selection
WSTA6	**337197**	5012535052657	1	Junior pocket size with auto ignition. • Fitted with pocket clip. • Suitable for soldering and hot blow applications • 1 x WPT-01 tip. See page 27 for tip selection
WSTA5	**337070**	■ 370701	1	Jumbo, (self igniting) • Soldering temperature range 250°-500°C • 1 x 72-01-02 tip See pages 27 for tip selection.

Weller® Portasol

PSI 100K	**336580**	● 060976	1	Piezo ignition (self lighting). Kit includes • 1 x soldering, hot blow and cutting tip. • Torch flame facility. Tips Include: • PSI - 6 • PSI - 8 • PSI - 9 • PSI - 10 See page 28 for Portasol tip selection.
BR200	**337165**	■ 473600	12	Weller Butane Gas refill, 200 grams. Suitable for all above irons.

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Repair/Rework Stations

All Weller repair and rework stations feature automatic tool recognition and will accept any Weller temtronic tool including the WTA50, desoldering tweezers, WSB80 and WSB150 solder baths and WST20 thermal strippers. These stations have a built in pump to supply vacuum for desoldering and air for hot air soldering and desoldering. Special desoldering heads for SMD components removal are available. A finger switch control on the desoldering tool handle and hot air pencil will operate the air pump. SMD components can be lifted off with the vacuum of the desolder head. The hot air pencil (HAP1) is used for reflowing with solder paste or desoldering. Smaller components can be removed with the standard nozzle. Larger components can be desoldered with a suitable nozzle.

Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
WMA3V e			1	A complete surface mount repair and rework station.

ESD SAFE

- Compressed air required: 3-8 bar, clean, oil free
- Temperature range: 50º- 450ºC for all soldering/desoldering
    50º - 550ºC for hot air pencil
- ESD Safe

Station consists of:
- Power Unit
- Hot airpencil (HAP1)
- Support stand KH27
- WDP Dispencer (10cm^3)
- Vacuum pipette
- Combined support for dispenser and pipette
- Foot switch
- Manual remote control
- Nutdriver - Xcelite P8MM
- Compressed air tube, 2m long, diameter 6m

Exploded Drawing: see page 63

Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
WMD3	335267	4003019028429	1	A multipurpose station to handle all rework and repair requirements.

ESD SAFE

- Digital microprocessor provides simultaneous control of three tool outlets with complete accuracy and reliability
- Self contained air & vacuum
- Programmable temperature, hot air flow and automatic set-back
- Operator lock out prevents unauthorised changes
- Temperature range, hot air 50°C 550°C, solder and desolder 50°C-450°C
- Idle temperature set-back, 5-60 minutes
- Made in Germany
- Please note WMD3 is not supplied with any tools

Exploded Drawing: see page 63

Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
WMD1D	332977	4003019061471	1	A multipurpose station to handle all rework and repair requirements.

ESD SAFE

- Digital microprocessor provides complete accuracy and reliability
- Self contained air & vacuum
- Programmable temperature, hot air flow and automatic set-back
- Operator lock out prevents unauthorised changes
- Temperature range, hot air 50°C-550°C, solder and desolder 50°C-450°C
- Idle temperature set-back, 5-60 minutes
- Large range of optional tools
- Made in Germany

Station consists of:
- WMD1S Power unit
- DS80UNC desoldering tool

Exploded Drawing: see page 62
Desoldering Tiplets: DS & DSH-Series see page 29

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Cat. No./Reference	Product Code	APN/UPC	Shelf Pack	Description

Repair/Rework Stations

WMD1A	**332959**	■ 329594	1	A multipurpose station to handle all rework and repair requirements.

ESD SAFE

• Digital microprocessor provides complete accuracy and reliability
• Self contained air & vacuum
• Programmable temperature, hot air flow and automatic set-back
• Operator lock out prevents unauthorised changes
• Temperature range, hot air 50°C-550°C, solder and desolder 50°C-450°C
• Idle temperature set-back, 5-60 minutes
• Large range of optional tools
• Made in Germany
Station consists of:
• WMD1S Power unit
• HAP1 hot air pencil

Exploded Drawing: see page 62
Hot Air Nozzles: see page 31

DS1003-1D	**333752**	■ 337520	1	• Self contained vacuum

ESD SAFE

• Independent solder and desolder operation
• Proportional temperature control 177ºC-454ºC
• Detachable tool stands
• Made in Australia
Station consists of:
• 230V Power Unit
• EC1201A 42 Watt 24V soldering pencil
• DS1203A 54 watt desoldering pencil

Exploded Drawing: see page 59
Soldering Tips: ET and DS/DSH Series see page 21
Desoldering Tiplets: DS/DSH Series see page 29

AUSTRALIAN MADE

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools

ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

Hot Air Stations

The advanced technology of Weller hot air stations ensures greater controlled precision when soldering and desoldering sensitive SMD components. Medium to large SMD components are extremely susceptible to thermal and physical damage. Weller hot air stations provide gentle, controlled hot air flow being directed to the leads of the component. An in-built vacuum pick-up within the nozzle of the WHA2000 makes the removal and replacement of the component safe and easy without damaging the circuit board pads or component leads.

Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
WHA3000P e	**330168**	■ 301680	1	Hot Air Station

ESD SAFE

Dimensions 240 x 270 x 170 (W x L x H mm)
Mains Voltage: 230V
Max Heat Power: 700 w
Temp Range: 50ºC - 550ºC

• 700 watt hot air station with patented Weller nozzle technology for maximum process control.
• The powerful variable speed controlled turbine generates an air volume of up to 50 litres/min.
• An ion trap so that charge free hot air is directed at the component.
• Memory space to store up to 10 thermal profiles to ensure process repeatability
• The WHA 3000P will perform demanding repair tasks on circuit boards with complex fine pitch surface mounted components.
• The advanced control technology coupled with userfriendly operation, guarantees precision of repair processes.
• Extensive range accessories compliment the machine to promote flexibility.

WBH3000S e

Dimensions 440 x 320 x 446 (W x L x H mm)

Circuit Board Holder
• Retains and secures the circuit board under repair and allows positioning of the board in X and Y directions.
• A wide range of accessories available separately permits boards up to a max size of 310mm x 320mm both single and double sided to be accommodated in a perfectly flat condition.
• The WBH 3000S incorporates a pivoting stand to mount the HAP 3000 hot air pencil. This stand allows the HAP 3000 to be raised and lowered onto the component under repair.
• An added safety feature is the Stop + Go function, which will automatically switch the hot air pencil into a standby mode if the stand is pivoted to the side of the board holder without first switching off the hot air.
• The pre-heating plate WHP 3000 (supplied separately) can be fitted under the board holder to provide background heating.

WHP3000 e

Heating plate
• The WHP 3000 increases the flexibility of the WHA systems.
• It provides underside heating to the board under repair, reducing the heat requirement from the hot air pencil and therefore minimising the risk of thermal damage to the board as well as speeding up the repair process.
• The heated surface comprises 3 high temperature ceramic elements that ensure fast and efficient heating.
• IR Heating plate total heated area 120 mm x 190 mm with 3 ceramic elements.
• Set temperatures and actual temperatures are digitally displayed.
• An external sensor can be connected to display actual temperatures at specific areas of the circuit under repair.
• The hot plate can be controlled from its own internal control system or integrated into the control system of the WHA 3000P/V

| **WHA300** | **335264** | ■ 352646 | 1 | |

Dimensions 130 x 220 x 170 (D x H mm)
Current Supply: 230V (120V)
Max Heat Power: 700 w
Air Volume: 10 - 50L/min
Temp Range: 50ºC-550ºC

Optional Accessories
• Foot Switch (**e**)
• Nozzle Changer (to change nozzles even when hot) (**e**)
• Nozzle support for 6 nozzles (**e**)

• Self contained Air
• Stand by function
• No vacuum function
• Temperature control 50°C -550°C
• Air Volume 10-50 l/min
• 700 watt hand piece
• Made in Germany
Station consists of:
• 230V Power Unit
• 700W HAP2 Hot Air Pencil
• Hex key

Exploded Drawing: see page 64
Nozzles: see page 31

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

Repair/Rework BGA/QFP Stations

Weller remains at the forefront of Rework Technology. As on board components have become more and more complex Weller has led the field with innovative, user friendly repair and assembly tools that solve the rework problem. The introduction of the BGA was no exception, with its small footprint area, hidden connections, and high connection density, rework operators have been presented with very real placement and removal problems. The WQB 3000 machines are the second generation of the Weller BGA/SMT repair system. They meet the exceptional demands required of a modern rework tool and deliver the benefits at a value for money price. Weller has developed a comprehensive user friendly program for the removal and re-balling of BGA components, site preparation, solder paste printing, placement and re-flow, without the risk of thermal damage to the component or the circuit board. No matter what the component, BGA, QFN, QFP, PLCC, SOP, PGA or surface mounted sockets, Weller has the rework answer.

Due to the rapid advances in SMD component development, increasingly complex processes are demanded for assembly and rework. Ball Grid Array and fine pitch leaded component rework require considerable technical expertise to achieve a successful repair. The Weller WQB 3000 system has this capability.

The Rework Cycle:
Development of the temperature profile
• Repeatable results can only be achieved by a process cycle that considers all the parameters of the repair operation.
• To allow removal of the component from a circuit board without damage to the board, a temperature profile of the operation must be established. The "Self Teach" feature of the WQB 3000 provides a quick and easy method of finding the parameters of the process cycle, without the need of in depth operator knowledge.

Component Removal
• Necessary for successful re-flow of the solder joints is the ability to preheat the circuit board and a temperature/time controlled process.
• A vacuum actuated lift to automatically remove the component from the board with minimum force at the end of the re-flow cycle to ensure no damage to the solder pads.

Cleaning of the circuit board
• Residual solder should be removed from the board with a desoldering iron or desolder wick.
• Residual contaminants should be removed with a suitable solvent spray.

Solder Application.
• Stencil printing should be used to apply fresh solder to the pads; this ensures that the correct volume of solder paste is deposited.

Positioning of the component
• A precise positioning system is required to place components with hidden joints, Weller offers two distinct systems.
• WQB 3000 uses the patented Weller template positioning process, a low cost but precise operation.
• A wide range of templates, for BGA, QFP and PLCC components are available
• WQB 3000 OPS uses a computer aided camera placement system, which is particularly useful if it is necessary to place a wide range of components.

Soldering of the component
• Re-flow of the replaced component is a repeat of the removal process except the vacuum lift is not initiated at the end of the profile.
• To cater for the many body sizes of BGA devices, a wide range of hot gas nozzles are available.
• To solder QFP and PLCC packages, an adapter is available to permit the use of the Weller NQ/ND family of hot gas nozzles.

Inspection of the solder joint
• Once the rework process has been verified by inspection of the completed repair, and then the repeatable profile controlled by the stored program can be applied ensuring that all subsequent repairs are carried out to the same parameters reducing the necessity of inspection to a minimum.
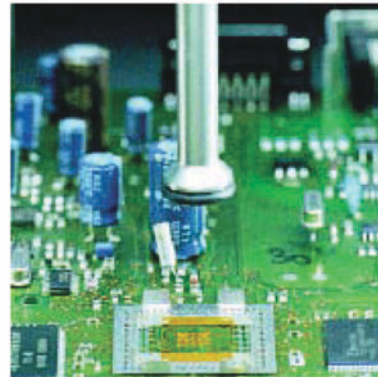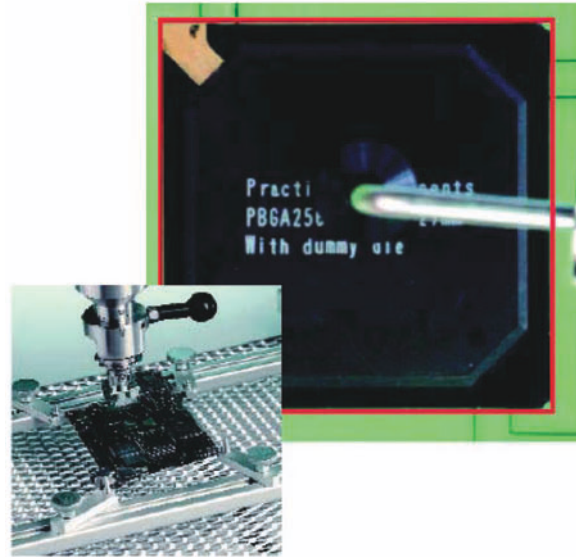
e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

Weller®

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description

Repair/Rework BGA/QFP Stations

The new WQB Repair System upgrades the Weller product range in the SMD repair tool sector. A well thought-out design concept combines reliability and maximum process control with ease of use and technically mature detail solutions. Useful accessories increase the possible uses of this repair work station.
On the WQB 3000 the temperature-regulated 2-zone infrared bottom heater provides rapid warm up and homogeneous substrate temperatures. The hot gas top heater, with digital control electronics for temperature monitoring and regulation of the air flow rate, facilitates the finely metered supply of heat to the components.
A temperature sensor placed directly in the hot gas nozzle efficiently regulates the top heater and thus provides maximum process control.
Large chip removal station with high energy handpiece. Extensive assortment of economically priced nozzles, with custom sizes made to order.

WQB3000OPS e 53351699   ■ 473891
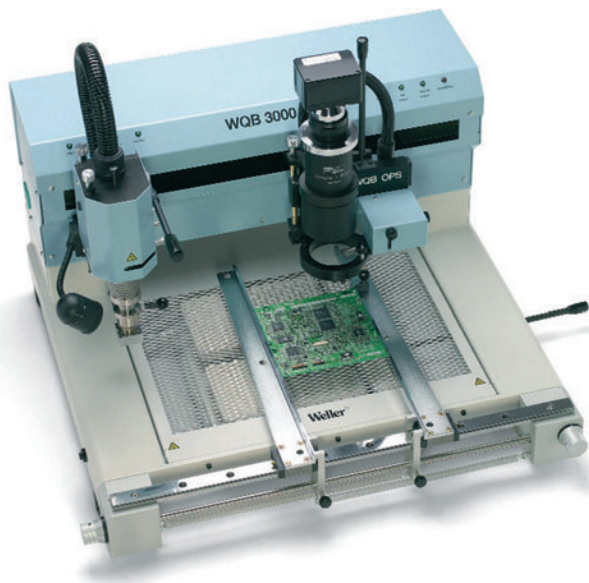
Consists of:
• Base unit with top heater, bottom heater, control electronics and pneumatic unit
• Positioning unit with digital camera and telecentrical objective
• Circuit board holder with fine adjustment in x- and y-direction
• Illumination for soldering head
• Temperature sensor PT 100
• Push rod for bottom heater
• Nozzle change tool
• 5 pieces suction insert Ø 4.5 mm
• 5 pieces suction insert Ø 10 mm
• Mains cable
• Software "WQB 3000 CONTROL" and "WQB OPS"
• Serial interface cable
• Calibration tool
• 3 changeable vacuum pick ups
• 2 m connecting tube for compressed air
• Instruction manual

Technical Data WQB 3000/WQB3000OPS
Dimensions (L x B x H): Approx. 650 x 600 x 500 mm
Mains Voltage: 230 V, 50/60 Hz
Rating: Top / Bottom Heater: 700 W / 1600 W
                Temperature Control: Continuous 50°C - 400°C;
                Control Accuracy ± 10°C
                Flow Rate Control: Continuous 5 - 50 l/min.
                Air consumption: 60-100 l/min at 4 bar
                Compressed air supply: 400 - 600 kPa purified,
                dry compressed air
                Total Weight: 42 kg

WQB3000   e   347395   1

Consists of:
• Base unit with bottom heater, soldering head, placement head, control electronics and pneumatic unit
• Circuit board holder with precision drive in x and y direction
• Lighting for soldering head and placement head
• Programming unit with RS-232 connecting cable
• Temperature sensor PT 100
• Push rod for bottom heater
• Nozzle change tool
• 5 pc. vacuum inserts Ø 4.5 mm
• 5 pc. vacuum inserts Ø 10 mm
• Reducer insert for the vacuum pickup
• Mains cable
• 2 m connecting tube for compressed air
• Instruction manual
• Software "WQB 3000 CONTROL" for the optional use of the system with PC

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COOPER Hand Tools

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Cat. No./Reference	Product Code	APN/UPC	Shelf Pack	Description

Accessories for WQB3000

Cat. No./Reference	Product Code	APN/UPC	Shelf Pack	Description
58754924	333626	4003019060627	1	Clamping Set for Circuit Boards
58755745	334116	9337103341169	1	Support for Large Sized Circuit Boards
58754942	333627	9337103336271	1	Manual Control Console
58754951	335342	4003019409020	1	Thermocouple Type K, 0.5mm Thermocouple Type K, 0.25mm
58747770	334147	9337103341473	1	NQ Nozzle Adapter
58713799			1	Vacuum Inserts - 4.5mm, 10pc
58713798			1	Vacuum Inserts - 10mm, 10pc
58754948	347387	4003019060894	1	Temperature Sensor for Top Heater
58754873			1	Circuit Board Block
53357699			1	Camera Aided Positioning System WQB OPS
53119199	335131	9337103351311	1	Serial Interface Cable
58755741	334115	9337103341152	1	Suppressing device for Circuit Boards

WLSK1000 e **347402** ● 133731 1

QFP Lead Straightening Kit
A convenient and easy to use kit to repair bent and deformed leads on gull wing Quad Flat Pack components.
Kit Includes:
- An assortment of patented precision alignment templates for the most common used QFP's
- Lab grade surface plate
- Vacuum pickup tool
- Two precision probes
- Precision tweezers
- Kapton tape
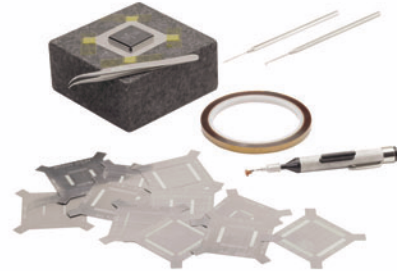
Other size and replacement templates available

WPRB1000 e **347401** ● 137289 1

Re-balling Kit for Plastic BGA's
A convenient and inexpensive way to replace balls on a plastic BGA component, precision screening/positioning templates ensure accurate ball placement.
Either eutectic solder paste or eutectic pre formed balls can be used with this kit.
Kit Includes:
- Screening/positioning templates for the most common BGA pitches
- BGA template clamping fixture
- Spatula and squeegee
- Precision probes, tweezers, screwdriver and flux pen
- 10,000 Eutectic balls
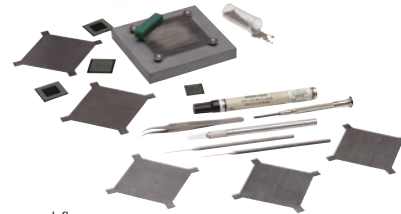
Note: A temperature controlled hot air tool is required to work with this kit.

58754951	335342	4003019409020	1	**Thermocouple Type K 0.25mm** • Clamp Set for Boards
58754924	333626	■ 336264	1	**Irregular Board Fixture**
58754970	347388	4003019061143	1	**NQ Nozzle Adapter**

e - denotes USA/Germany stock requiring freight lead times.
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COOPER Hand Tools

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
WAM 3000	**e**			Vapour Phase SMD Reflow Soldering

Using vapour phase soldering systems it is possible to solder highly complex assemblies and components without thermal problems. The compact design makes the WAM 3000 the ideal soldering system particularly for use in the laboratory and for prototyping. The device is also suitable for small production runs due to the innovative air-cooling. All device functions are controlled and monitored by a microcontroller. A PC can also take over the control, monitoring and documentation of the soldering process by means of the serial interface. Any adjustments to suit the evaporating liquid used are made automatically. Heat transfer is by means of condensation of a saturated vapour phase. The boiling points of the various process media define the required working temperature. The built-in lift moves the item to be soldered to the loading position.

Advantages:
• Oxygen-free soldering environment, mild flux can be used
• Process conditions and soldering profile that are reproducible and can be documented
• Even heating of the circuit board without overheating of the electronic assemblies
• No time-consuming preparation of temperature curves
• Environmentally friendly-CFC free
• Low maintenance due to air cooling
• Process tank made of high-quality stainless steel
• Control by means of external PC

Technical Data
Process temperature: Medium-dependent up to 240ºC
Medium Consumption: Approx. 3 - 10g/cycle
Medium Capacity: 1kg
System weight: 80kg

Accessories:
• Connection for vapour extraction
• Desoldering set

Cat. No./ Reference	Product Code	Description
WRS 0201	**e**	µSMD Repair System

· Developed for challenging rework and repair on µSMT components, i.e. 0201, 0402 and small micro BGAs
· Optical inspection of the solder joint
· Combines reliability and process-security with easy and intuitive operation
· Combined solder- and mounting tool with integrated CCD color camera and pivoting TFT monitor
· Temperature regulated preheater with two regulated infrared zones
· 80 degree concentrically pivoting of the CCD camera around the mounting pipette enables optical all around quality control

Technical Data
Base Unit:
Size (W x D x H):   800 x 650 x 550 mm
Power Supply: 230 V, 50/60 Hz
Power Fuse: T8A
Power Consumption: Top Heat: 80 W / Preheat: 1600 W
Temperature Regulation: Top Heat: step less 50°C – 400°C
                                                          Preheat: step less 50°C – 400°C
                                                          Precision: ± 10°C
Compressed-Air: 400 - 600 kPa cleaned and dry compressed air
Compressed-Air-Converter: negative pressure max. 60 kPa
Flow-Control: step less 2 – 7 l/min.
Air Consumption: max. 40 l/min. (6 bar)
PCB Holder:
Fine Adjustment in x- and y direction: Range ± 10 mm
                                                          Precision ± 0,05 mm
Size of PCB: Width max.: 495 mm
                                                          Width min.: 30 mm
                                                          Length: unlimited
CCD Camera, Objective and Monitor:
Count of Pixel: 752 (H) x 582 (V)
CCD-Sensor: 1/" HAD Sensor - Color
Optical Interface: C-Mount
Objective: Telecentrical Objective with high depth of sharpness
                                                          2-times Prime Magnification – about 44 times absolute
                                                          Magnification
                                                          Other Magnification available on Request!
Monitor: 6.8" TFT-LCD Monitor / Resolution 1152 x 234 Pixel
Subject to Change! Made to Order.
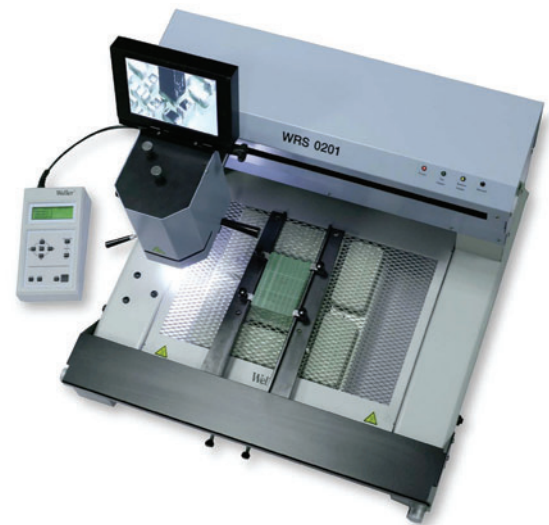
e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools

Replacement Soldering Tips

PT SERIES Suit WTCPS/T stations and TC series soldering pencils.

Bulk Price P.O.A.

600ºF (315ºC)	700ºF (371)C)	800ºF (427)C)	Description	Tip Size mm	Reach mm	Shelf Pack
PTA6 332547	PTA7 332549	PTA8 332551	Screwdriver	1.6	15.9	1
PTAA6 332555	PTAA7 332557	PTAA8 332559	Single flat	1.6	15.9	1
PTB6 332563	PTB7 332565	PTB8 332567	Screwdriver	2.4	15.9	1
PTBB6 332571	PTBB7 332573	PTBB8 332575	Single flat	2.4	15.9	1
PTC6 332579	PTC7 332581	PTC8 332583	Screwdriver	3.2	15.9	1
PTCC6 332587	PTCC7 332589	PTCC8 332591	Single flat	3.2	15.9	1
PTD6 332595	PTD7 332597	PTD8 332599	Screwdriver	4.7	15.9	1
PTDD6 332603	PTDD7 332605	PTDD8 332607	Single flat	4.7	15.9	1
PTE6 332635	PTE7 332637	PTE8 332639	Screwdriver	6.0	15.9	1
PTF6 332627	PTF7 332629	PTF8 332631	Conical flat	1.2	15.9	1
PTH6 332611	PTH7 332613	PTH8 332615	Screwdriver	0.8	15.9	1
PTK6 332643	PTK7 332645	PTK8 332647	Long Screwdriver	1.2	25.4	1
PTL6 332651	PTL7 332653	PTL8 332655	Long Screwdriver	2.0	25.4	1
PTM6 332659	PTM7 332661	PTM8 332663	Long Screwdriver	3.2	25.4	1
PT06 332668	PT07 332669	PT08 332670	Long conical	0.8	25.4	1
PTP6 332619	PTP7 332621	PTP8 332623	Conical	0.8	15.9	1
PTR6 332677	PTR7 332678	e PTR8 332680	Narrow Screwdriver	1.6	15.9	1
PTS6 332688	PTS7 332689	PTS8 332690	Long conical	0.4	25.4	1
PTT6	PTT7	PTT8	Conical	0.6	15.9	1
PTX6	e PTX7 332699	PTX8	Bent slotted	0.8	-	1
e PTZ6 332697	PTZ7		Bent slotted	0.5	-	1

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COOPER Hand Tools

Replacement Soldering Tips

ET SERIES
Suits EC1000/2000 WES50, WES51, WESD51 stations fitted with EC1201A, WSP50 and WSP51, PES50 & PES51 soldering pencils.

Bulk Price P.O.A.
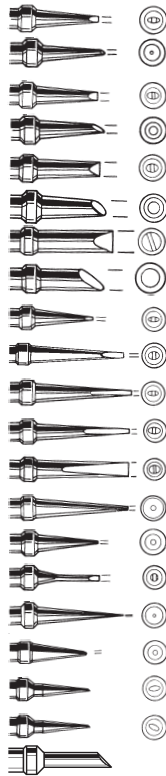
Catalogue No.	Product Code	APN/UPC	Description	Tip Size mm	Reach mm	Shelf Pack
ETA	333360	■ 477288	Screwdriver	1.6	15.9	1
ETAA	333358	● 591579	Single flat	1.6	15.9	1
ETB	333361	■ 477271	Screwdriver	2.4	15.9	1
ETBB	333386	■ 333867	Single flat	2.4	15.9	1
ETC	333362	■ 477264	Screwdriver	3.2	15.9	1
ETCC	333373	■ 478087	Single flat	3.2	15.9	1
ETD	333363	■ 477257	Screwdriver	4.7	15.9	1
ETDD	333370	■ 478094	Single flat	4.7	15.9	1
ETH	333364	■ 477233	Screwdriver	0.8	15.9	1
ETJ	333354	■ 333546	Screwdriver	0.4	25.4	1
ETK	333366	■ 477219	Long Screwdriver	1.2	25.4	1
ETL	333367	■ 477202	Long Screwdriver	2.0	25.4	1
ETM	333374	■ 478100	Long Screwdriver	3.2	25.4	1
ETO	333368	■ 477226	Long conical	0.8	25.4	1
ETP	333365	■ 477240	Conical	0.8	15.9	1
ETR	333371	■ 478117	Narrow Screwdriver	1.6	15.9	1
ETS	333372	■ 478056	Long conical	0.4	25.4	1
ETT	333385	■ 333850	Conical	0.6	15.9	1
ETU	333356	■ 333560	Single flat	0.4	17.8	1
ETV	333355	■ 333553	Single flat	0.6	17.8	1
ETGW	332912		Mini Wave for J Leads and Gullwings			
PT7-LT	58720787		Adapter			1
PT8-LT	58720788		Adapter			1

EPH SERIES Suits EC3001 Stations/EC1301, EC1302A, EC1302B Soldering Pencils

Bulk Price P.O.A.
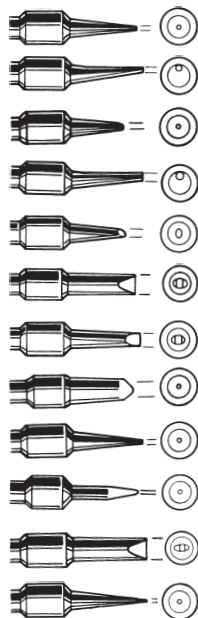
Catalogue No.	Product Code	APN/UPC	Description	Tip Size mm	Reach mm	Shelf Pack
EPH101	332701	■ 327019	Micropoint	0.4	11.1	1
EPH102	332702	■ 327026	Bent conical	0.8	11.1	1
EPH103	332706	■ 327064	Single flat	0.8	7.9	1
EPH104	332703	■ 327033	Bent conical	1.2	11.1	1
EPH105	332707	■ 327071	Single flat	1.2	7.9	1
EPH106	332705	■ 327057	Screwdriver	1.6	11.1	1
EPH107	332704	■ 327040	Chisel	2.0	11.1	1
EPH108	332709	■ 327095	Chisel	2.8	11.1	1
EPH109	332700	■ 327002	Conical	0.8	11.1	1
EPH110	332708	■ 327088	Conical	1.6	11.1	1
EPH111 e	332710	● 591531	Screwdriver	1.2	11.1	1
EPH112	332711	● 593320	Long micropoint	0.4	15.9	1

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COOPER Hand Tools

Replacement Soldering Tips

LT Tip Selection Chart

	Cat No.	Product Code	APN/UPC	Style	Size 1	Size 2	Reach	
	LT1	**333579**	▲ 406852	Round	0.25	-	12.5	
	LT1L	**336443**	▲ 025299	Round	0.2	-	25	
	LT1LX	**336444**	▲ 025305	Bent Round	0.2	-	25	
	LT1S	**333578**	▲ 406883	Round	0.2	-	15	
	LT1SLX	**336494**	■ 364946	Bent Round	0.4	-	20.5	
	LT1X	**336495**	● 166722	Bent Round	0.4	-	20.5	
	LT4	**336445**	■ 364458	Single Flat	1.2	-	15	
	LT4X	**336496**	● 166715	Bent Chisel	1.2	0.16	16.5	
	LTA	**336420**	▲ 407095	Chisel	1.6	0.2	12.5	
	LTAS	**336421**	■ 364212	Round	1.6	-	12.5	
	LTAX	**336498**	● 166739	Bent Chisel	1.6	0.8	14	
	LTB	**333574**	■ 335748	Chisel	2.4	0.8	12.5	
	LTC	**333638**	■ 336387	Chisel	3.2	0.8	12.5	
	LTCS	e **335102**	■ 351021	Round	3.2	-	12.5	
	LTD	**335103**	▲ 003006	Chisel	4.6	0.8	12.5	
	LTGW	**333577**	▲ 003013	Gull Wing	3.2	-	17.8	
	LTF	**336449**	● 364494	Single Flat	1.2	-	12.5	
	LTH	**335110**	▲ 406913	Chisel	0.8	0.4	12.5	
	LTHX	**335226**	■ 352264	Bent Chisel	0.6	0.2	20	
	LTK	**335159**	■ 351113	Chisel	1.2	0.4	20	
	LTKN	**333609**	■ 336097	Knife (J- Lead)	1.5	0.8	20	
	LTL	**336446**	▲ 024834	Chisel	2.0	1.0	20	
	LTM	**336447**	▲ 024841	Chisel	3.2	1.2	20	
	LTS	**336448**	■ 364489	Round	0.4	-	20	
	LT desolder			Blade	10.5	0.5	11.5	
	LT adapter	**335333**	● 151353					
	Measuring	**336422**	▲ 049264	Calibration Tip				

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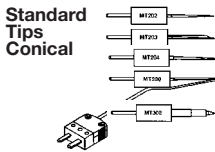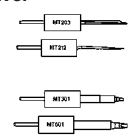Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

Replacement Soldering Tips

NT Tip Selection Chart
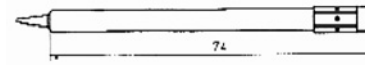
	Cat No.	Product Code	Description	Width A	Thickness B	Length C
	NTH	330325	Chisel Tip	0.8mm	0.4mm	8.4mm
	NTK	330326	Chisel Tip	1.2mm	0.4mm	8.4mm
	NTA	330321	Chisel Tip	1.6mm	0.4mm	8.4mm
	NT6	330320	Chisel Tip	1.6mm	0.4mm	9.5mm
	NTB	330322	Chisel Tip	2.4mm	0.8mm	7.4mm
	NTC	330323	Chisel Tip	3.2mm	0.8mm	7.8mm
	NTD	330324	Chisel Tip	4.0mm	0.8mm	7.8mm
	NTAX	330327	Chisel Tip, Bent	0.4mm	1.6mm	8.2mm
	NT1X	330328	Round Tip, Bent	1.6mm	0.8mm	8.6mm
	NT1	330330	Round Tip	0.25mm	-	7.4mm
	NT1S	330331	Round Tip, Small	0.25mm	-	8.5mm
	NT4	330332	Round Tip, Sloped 45°	1.2mm	-	9.9mm
	NTGW	330329	Gull Wing	2.0mm	3.0mm	13.4mm

SMT Tip Selection Chart - to suit WMP Tool

	Cat No.	Product Code	Description	Width A	Thickness B	Length C	Component Type
	NTSMT01	e 330333	Blade	10.4mm	0.6mm	7.1mm	Any (for pad clean-up)
	NTSMT02	e 330334	Blade	16.8mm	0.6mm	7.1mm	Any (for pad clean-up)
	NTSMT03	e 330335	Blade	20.8mm	0.6mm	7.1mm	Any (for pad clean-up)
	NTSMT04	e 330336	Slot	1.8mm	9.4mm	1.8mm	Chip
	NTSMT05	e 330337	Slot	1.5mm	2.3mm	1.8mm	Chip
	NTSMT06	e 330338	Slot	2.5mm	1.7mm	1.4mm	Chip
	NTSMT07	e 330339	Slot	2.3mm	4.5mm	1.8mm	Chip
	NTSMT08	e 330340	Slot	4.6mm	5.1mm	2.3mm	DIP
	NTSMT09	e 330341	Tunnel	10.4mm	5.1mm	2.3mm	DIP
	NTSMT10	e 330342	Tunnel	11.5mm	6.9mm	2.3mm	DIP
	NTSMT11	e 330343	Tunnel	13.2mm	9.5mm	3.2mm	DIP
	NTSMT12	e 330344	Tunnel	15.8mm	9.5mm	3.2mm	DIP
	NTSMT13	e 330345	Tunnel	18.3mm	9.5mm	3.2mm	DIP
	NTSMT14	e 330346	Tunnel	18.8mm	9.0mm	3.2mm	DIP
	NTSMT15	e 330347	Quad	2.7mm	7.7mm	3.8mm	PLCC & QFP
	NTSMT16	e 330348	Quad	10.4mm	10.4mm	3.8mm	PLCC & QFP
	NTSMT17	e 330349	Quad	12.7mm	12.7mm	3.8mm	PLCC & QFP
	NTSMT18	e 330350	Quad	13.7mm	8.6mm	3.8mm	PLCC & QFP
	NTSMT19	e 330351	Quad	19.1mm	19.1mm	5.6mm	PLCC & QFP
	NTSMT20	e 330352	Quad	23.2mm	17.3mm	3.8mm	PLCC & QFP
	NTSMT21	e 330353	Quad	24.5mm	24.5mm	5.6mm	PLCC & QFP
	NTSMT22	e 330354	Quad	29.6mm	29.6mm	5.6mm	PLCC & QFP

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools

Replacement Soldering Tips

WSP150 SERIES

Catalogue No.	Description	Tip Size mm	mm	Product Code	APN/UPC	Shelf Pack
LHT-D	Chisel Tip	4.7	1.8	**335160**	4003019022434	1
LHT-E	Chisel Tip	6.7	1.8	**335161**	4003019022427	1
LHT-F	Chisel Tip	9.3	1.8	**335162**	4003019022410	1
LHT	Measuring Tip			**335163**		1
LHTDX	Bent Chisel Tip	5.0	2.0	**e**		1
LHTEX	Bent Chisel Tip	7.0	2.0	**e**		1
LHTFX	Bent Chisel Tip	10.0	2.0	**e**		1

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Replacement Soldering Tips
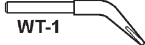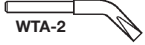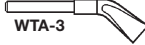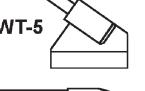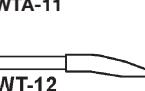
Catalogue No./ Reference	Description	Product Code	APN/UPC	Shelf Pack

MT SERIES, Suits MT1500D Soldering Station

Standard Tips Conical

MT202	Needle, .030 x 1.0L	333010	● 101495	1
MT203	Needle, .030 x 1.0L Mil Spec e	348056	● 101501	1
MT204	Needle, .022 x 1.0L Non Wet	348054	● 101488	1
MT220	Needle, .030 Calibration Tip e	348070	● 101099	1
MT302	Conical Sharp .015 x 200L	348082	● 101914	1
MT606	Conical Sharp, 0.16 x 530L e	348106	● 097545	1
MT613	Concial Sharp, .020 x 530L e	348113	● 097453	1

Conical Bent

MT303	Conical Bent, 30 Deg. .015 x 320L	348083	● 101709	1
MT603	Conical Bent, 30 Deg. .020 x 600L	348103	● 097552	1
***MT605**	Conical Bent (Sharp) 30 Deg. .016 x .560L e	348105	● 097538	1

Chisel

***MT611**	Chisel .060 X 610L e	348111	● 097477	1
***MT614**	Chisel .100 x .190L e	348114	● 097446	1

Bevel

MT607	Bevel, 30 Deg., .020 Dia. x .580 e	348107	● 097514	1
***MT608**	Bevel, 30 Deg., .040 Dia. x .560 e	348108	● 097521	1

Screwdriver

MT211	Screwdriver, .045 W x .0.15 THK x 1.0L e	348061	● 101457	1
MT212	Screwdriver, .045 W x .005 THK x 1.0L non wet	348062	● 101365	1
MT221	Screwdriver, .031 W x .010 THK x 1.0L	348071	● 101433	1
MT301	Screwdriver, .047 x 200L e	348081	● 101907	1
MT601	Screwdriver, .070 x .385L e	348101	● 097576	1
***MT602**	Screwdriver, .100 x 390L e	348102	● 097583	1
***MT604**	Screwdriver, .060 x 390L e	348104	● 097569	1
***MT610**	Screwdriver, .200 x .350L	348110	● 097507	1
***MT620**	Calibrated Tip - 600 Series e	348120	● 108968	1

Surface Mount Tips PLCC'S

MT1203F	Quad PLCC-44, .70 SQ., Flex Leg	348153	● 108913	1
MT1208F	Quad PLCC-68, 1.000 SQ., Flex Leg	348158	● 108937	1
***MT1212**	Quad PLCC-18, .335 x 535 e	348162	● 121875	1
***MT1202**	Quad PLCC-20, .410 SQ. e	348152	● 109033	1
***MT1201**	Quad PLCC-28, .500 SQ.	348151	● 109026	1
***MT1204**	Quad PLCC-32, .500 x 600			1

SOIC

***MT1207**	SOIC-20, .375W x .520L	348157	● 109064	1
***MT1210**	SOIC-28, .375W x .720L e	348160	● 121899	1
***MT1211**	SOIC-24, .375W x .620L e	348161	● 121912	1

SIP

MT617	SIP (Blade) .410L	348117	● 108906	1
MT1205	SIP (Blade) .820L e	348155	● 108920	1

SOJ

***MT1209**	SOJ-28, 340W x .704L e	348159	● 109071	1

CHIP

***MT618**	CHIP 1206/1210, .135W x .070L	348118	● 109088	1
***MT624**	CHIP SOT 23, 068W x .100L	348124	● 109002	1
***MT625**	CHIP 1808/1812, 190W x .090L e	348125	● 109019	1
***MT626**	CHIP CAP D, .303W x 105L	348126	● 121905	1

QFP

***MT1213**	QFP-64/80, .680 x .915 e	348163	● 121868	1

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Replacement Soldering Tips

WT SERIES, suit WT-50 Thermal Tweezers
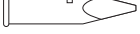
	Catalogue No.	Strip Size	Tip Size mm	"X" mm	Product Code	APN/UPC	Shelf Pack
WT-1	**WT-1**	0405-1805, SOD80, MELF	1.0	11.0	**332250**	4003019001743	1PR
WTA-2	**WTA-2**	1808-1812, SOD87, SOT23, SOD89	3.0	11.0	**332249**	● 108425	1PR
WTA-3	**WTA-3**	SOT192, SO4-SO8	6.0	11.0	**332256**	4003019001897	1PR
WT-4	**WT-4**	SO14, SO16, SOJ14, SOJ16	12.5	10.0	**332253**	4003019002238	1PR
WT-5	**WT-5**	SO20, SO20L, SOJ20	18.5	12.0	**332254**	4003019022717	1PR
WTA-11	**WTA-11**	VERTICAL USE	1.0		**332248**	■ 364182	1PR
WT-12	**WT-12**	VERTICAL USE	3.0	**e**	**336419**	■ 364199	1PR

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COOPER Hand Tools

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Replacement Soldering Tips

Catalogue No.	Description	Tip Size mm	mm	Product Code	APN/UPC	Shelf Pack
WPT0 SERIES PYROPEN TIPS, Suit **WSTA6** Auto Ignition Jr.						
WPT-01	Taper	1.0		**337123**	■ 371234	1
WPT-02	Screwdriver	2.4		**337124**	■ 371241	1
WPT-03	Chisel	2.0		**337125**	■ 371258	1
WPT-04	Screwdriver	5.0		**337126**	■ 371265	1
WPT-01-50	Nozzle	1.5		**337162**	■ 371623	1
WPT-01-52	Nozzle	4.7		**337163**	■ 371630	1
WPT SERIES PYROPEN TIPS, Suit **WST2** Junior						
WPT-15	Tapered Needle	0.5		**337172**	■ 477523	1
WPT-16	Chisel	3.0		**337174**	● 477538	1
WPT-17	Spade	3.0	e	**337176**	● 477545	1
WPT-54	Hot Blow	1.5		**337178**	● 477552	1
WPT-55	Hot Blow	4.9		**337180**	● 477569	1
REPLACEMENT TIPS JUMBO PYROPEN WSTA5						
72-01-01	Conical	3mm		**337076**	■ 370763	1
72-01-02	Chisel	2mm		**337199**	■ 371999	1
72-01-03	Spade	4mm		**337078**	■ 370787	1
72-01-05	Conical	2mm		**337079**	■ 370794	1
72-01-06	Spade	4mm		**337080**	■ 370800	1
72-01-07	Pyramid	2mm		**337081**	■ 370817	1
72-01-13	Flat	3mm		**337083**	■ 370831	1
72-01-51	Hot Blow	4mm		**337085**	■ 370855	1
72-01-52	Hot Blow	6mm		**337086**	■ 370862	1
72-01-53	Hot Blow	10mm		**337087**	■ 370879	1
72-01-54	Small Heat Shrink		e	**337088**	■ 370886	1
72-01-55	Large Heat Shrink			**337089**	■ 370893	1

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Replacement Soldering Tips

WPT SERIES PYROPEN TIPS. Suits **WSTA3** and **WPA2**

Catalogue No.	Description	Tip Size mm		Product Code	APN/UPC	Shelf Pack
WPT-1	Taper	-		**337127**	■ 472405	1
WPT-2	Chisel	2.0		**337129**	■ 472429	1
WPT-3	Spade	2.0		**337131**	■ 472443	1
WPT-4	Spade 45°	3.0		**337133**	■ 472450	1
WPT-5	Taper Needle	-		**337135**	■ 472481	1
WPT-6	Micro Spade	2.0		**337137**	■ 472498	1
WPT-7	Square Taper Pyramid	0.5		**337139**	■ 472528	1
WPT-8	Spade 35°	2.0		**337141**	■ 472535	1
WPT-9	Spade 35°	3.0		**337143**	■ 472542	1
WPT-10	Offset Tapered Needle	1.0		**337145**	■ 472559	1
WPT-11	Chisel	8.0		**337147**	■ 472597	1
WPT-12	Round Head Needle	3.0		**337149**	■ 472702	1
WPT-13	Long Tapered Chisel	5.0		**337151**	■ 472788	1
WPT-14	Threaded Tip Base	-		**337153**	■ 472818	1
WPT7015	Spade	7.0	**e**	**337154**	■ 371548	1
WHC-50	Hot Blow	2.5 ID		**337155**	■ 472825	1
WHC-51	Hot Blow	3.3 ID		**337157**	■ 472993	1
WHC-52	Hot Blow	4.9 ID		**337159**	■ 473402	1
WHC-53	Hot Blow	7.4 ID		**337161**	■ 473594	1
WAR-54	Heat Shrink Attatchment Long			**337216**	● 476388	1
WAR-55	Heat Shrink Attachment Small			**337218**	● 476395	1

PSI SERIES PORTASOL TIPS Suit **PSI-100** Irons.
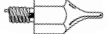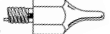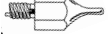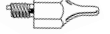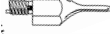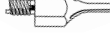
Catalogue No.	Description	Tip Size mm		Product Code	APN/UPC	Shelf Pack
PSI 1	Single Flat	1.0		**336740**	● 062666	1
PSI 2	Single Flat	2.4		**336743**	● 062659	1
PSI 3	Single Flat	3.2		**336746**	● 062628	1
PSI 4	Single Flat	4.8		**336749**	● 062635	1
PSI 5	SIngle Flat	1.0		**336752**	● 062604	1
PSI 6	Double Flat	2.4		**336755**	● 062611	1
PSI 7	Double Flat	3.2		**336758**	● 062581	1
PSI 8	Double Flat	4.8	**e**	**336761**	● 062598	1
PSI 10	Hot Knife	-		**336767**	● 060990	1

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Replacement Desoldering Tips

Catalogue No.	Description		Tip Size mm	Product Code	APN/UPC	Shelf Pack
DS SERIES TIPLETS Suit DS102, DS651, DS1201,Tools and DS650 Station/DS80UNC/DSV80						
DS110	0.63	1.52	12.7	**333250**	■ 474386	1
DS111	0.63	2.28	12.7	**333251**	■ 474393	1
DS112	0.91	1.93	12.7	**333252**	■ 474416	1
DS113	1.16	2.48	12.7	**333253**	■ 474447	1
DS114	1.80	3.25	12.7	**333254**	■ 474454	1
DS115	0.63	1.52	19.05	**333255**	■ 474478	1
DS116	1.14	2.48	19.05	**333256**	■ 474492	1
DS117	0.63	2.28	19.05	**333257**	■ 474515	1
DSH SERIES TIPLETS. Suit DS1203A Tools and WDD80V/DS80UNC/DSV80						
DSH110	0.63	1.52	19.05	**333000**	● 593139	1
DSH111	0.63	2.28	19.05	**333001**	● 593269	1
DSH113	1.14	2.48	19.05	**333003**	● 593160	1
DSH114	1.80	3.17	19.05	**333004**	● 593177	1
DSH115	0.63	1.52	19.05	**333005**	● 046420	1
DSH116	1.14	2.48	19.05	**333006**	● 046437	1
DSH117	0.63	2.48	19.05	**333007**	● 046444	1

Nozzles to suit WQB2000 and WQB3000

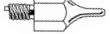| Catalogue No.	Nozzle Housing Inside mm xmm	Nozzle Housing Outside mm x mm	Product Code	APN/UPC	Shelf Pack
58747947	7.6 x 7.9	8.6 x 8.9	330557		1
58747943	6.5 x 6.5	7.5 x 7.5	334460	4003019025350	1
58747945	8.5 x 8.5	9.5 x 9.5	330144	4003019025343	1
58747961	8.5 x 10.6	9.5 x 11.6	330556		1
58754967	10 x 10	11 x 11	334459	4003019061006	1
58747848	12 x 12	13 x 13	334190	4003019050857	1
58747904	13.5 x 13.5	14.3 x 14.3	334458	4003019011704	1
58747935	15.5 x 15.5	16.5 x 16.5	334339	4003019024872	1
58747893	15 x 11	16 x 12	334457	4003019009787	1
58754836	18.5 x 10	19.5 x 11	330557		1
58747977	15.5 x 23.5	16.5 x 24.5	330558		1
58747833	18 x 18	20 x 20	334192	■ 341923	1
58754770	21 x 21	23 x 23	334456	4003019059188	1
58754820	22 x 22	24 x 24	330559		1
58747764	25 x 25	27 x 27	334174	4003019004140	1
58747993	27 x 23	29 x 25	330560		1
58747850	27 x 27	29 x 29	330561		1
58747927	29 x 29	31 x 31	347461	■ 474614	1
58747999	28 x 32	30 x 34	334455	4003019058556	1
58747906	33 x 33	35 x 35	334099	4003019011698	1
58754887	35 x 35	37 x 37	330562		1
58747753	37 x 37	39 x 39	336431	■ 364311	1
58747871	39.5 x 39.5	41.5 x 41.5	330563		1
58747874	42 x 42	44 x 44	330564		1
58754903	45 x 11	47 x 13			1
58754905	45 x 26	47 x 28			1
58747763	46 x 46	48 x 48	334096	■ 340964	1
58747916	47 x 47	49 x 49	330567		1
58747941	49 x 49	51 x 51	330568		1
58747985	57 x 18.5	59 x 20	330570		1
58755749	55 x 45	57 x 47			1
58747770	Adaptor		334147	■ 341473	1
58754970	Adaptor QFP Nozzles		347388	4003019061143	1

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Replacement Soldering Tips

CT5 SERIES Suits W60D Soldering pencil

Bulk Price P.O.A.

Catalogue No./ Product Code			Description	Tip Size mm	Reach mm	Shelf Pack
600°F (315°C)	**700°F (371)C)**	**800°F (427)C)**				
	CT5A7 **332747**	CT5A8 **332749**	Screwdriver	1.6	29.36	1
CT5AA6 **333135**	CT5AA7 **333137**	CT5AA8 **333091**	Spade	1.6	19.00	1
	CT5B7 **332755**	CT5B8 **332757**	Screwdriver	2.4	29.36	1
CT5BB6 **333092**	CT5BB7 **333094**		Spade	2.4	19.00	1
CT5C6 **332761**	CT5C7 **332763**	CT5C8 **332765**	Screwdriver	3.2	29.36	1
CT5CC6 **333143**	CT5CC7 **333101**	CT5CC8 **333095**	Spade	3.2	19.00	1
	CT5D7 **332771**	CT5D8 **332773**	Screwdriver	4.8	29.36	1
CT5DD6 **333145**	CT5DD7 **333147**	CT5DD8 **333097**	Spade	4.8	19.00	1
	CT5E7 **332779**	CT5E8 **332781**	Screwdriver	6.35	29.36	1
	CT5EE7 **333151**		Spade	6.35	19.00	1

CT6 SERIES, Suits W100D Soldering pencils

CT6C6 **332790**	CT6C7 **332785**	CT6C8 **332786**	Screwdriver	3.18	37.3	1
CT6D6 **332788**	CT6D7 **332787**	CT6D8 **332794**	Screwdriver	4.76	37.3	1
CT6E6 **332795**	CT6E7 **332789**	CT6E8 **332782**	Screwdriver	6.35	37.3	1
CT6F6 **332796**	CT6F7 **332783**	CT6F8 **332784**	Screwdriver	9.52	37.3	1
005176799 **333610**			Welding Mirror (50 x 40 x 4) teflon coated			

CT2 SERIES, Suits W201 Soldering Iron
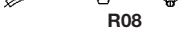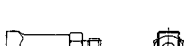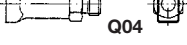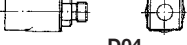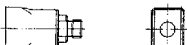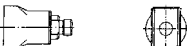
-	CT2E7 **332799**	e **332839** CT2E8	Screwdriver	7.0		1
e **332835** CT2F6	CT2F7 **332833**	e **332840** CT2F8	Screwdriver	10.0		1

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Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools
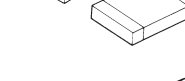
ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

S.M.T. Soldering and Desoldering Accessories
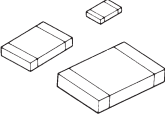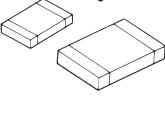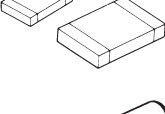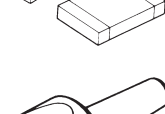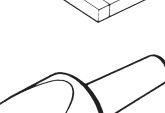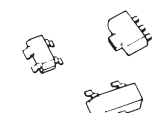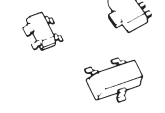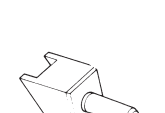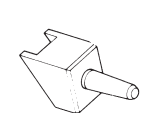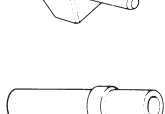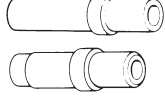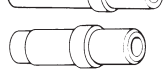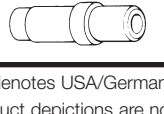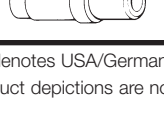
Catalogue No./Reference	Description			Product Code	APN/UPC	Shelf Pack
HOT AIR NOZZLES FOR HAP1 Hot Air Pencil						
F02	Flat nozzle	8 x 1.5mm	58727774 e	**335144**	4003019018444	1
F04	Flat nozzle	10 x 1.5mm	58727773 e	**335227**	4003019018437	1
F06	Flat Nozzle	12 x 1.5mm	58727772 e	**335141**	■ 351410	1
R01	Calibrating Nozzle		58727808	**336411**	■ 364113	1
R10	Straight Nozzle	2.5mm diam.	58727787 e	**336424**	4003019018789	1
R02	Nozzle	0.8mm diam.	58727823 e	**334110**	■ 341107	1
R04	Nozzle	1.2mm diam.	58727821 e	**334346**	4003019023288	1
R06	Nozzle	3.0mm diam.	58727822 e	**334111**	■ 341114	1
R08	Bent Nozzle	2.5mm diam.	58727786 e	**336423**	■ 364236	1
FD2	Dual Nozzle	1.5mm diam x 8mm	58727776 e	**396580**	● 036469	1
FD4	Dual Nozzle	1.5mm diam. x 10mm	58727775 e	**335231**	■ 352318	1
Q02	Nozzle	6 x 6.5mm	58727777 e	**336403**	■ 364038	1
Q04	Nozzle	6 x 9mm	58727778 e	**336404**	■ 364045	1
Q06	Nozzle	15 x 10mm	58727780 e	**336406**	■ 364069	1
Q08	Nozzle	12.5 x 15mm	58727783 e	**336409**	■ 364090	1
Q10	Nozzle	18 x 18mm	58727785 e	**336410**	■ 364106	1
D04	Nozzle	10.5 x 10.5mm	58727779 e	**336405**	■ 364052	1
D06	Nozzle	10 x 13mm	58727782 e	**336408**	■ 364083	1
D08	Nozzle	15 x 10mm	58727781 e	**336407**	■ 364076	1
D10	Nozzle	10 x 18mm	58727784 e	**333658**	■ 336585	1
C.S.F. SERIES TIPLETS, suits most Weller desoldering tools.						
		Width x length				
CSF-D1	SO	5.2 x 10mm	e	**333470**	■ 334703	1
CSF-D2	SO	5.8 x 10.5mm		**333471**	● 472151	1
CSF-D3	SO	6.7 x 20mm	e	**333472**	● 472168	1
CSF-D4	SO	11 x 26.5mm	e	**333473**	● 480743	1
CSF-Q1	QFP	17 X 17mm		**333475**	● 480767	1
CSF-Q2	QFP	17 x 23mm		**333476**	● 480774	1

Many NEW stock sizes available. Also adaptors to suit all Weller and some other brand desoldering tools.

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

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Catalogue No./Reference	Description	Product Code	APN/UPC	Shelf Pack

S.M.T. SOLDERING AND DESOLDERING ACCESSORIES
HOT AIR NOZZLES FOR WHA300/1000/2000 Stations

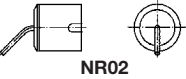| Catalogue No./Reference	Description	Product Code	APN/UPC	Shelf Pack
NR02	1.7mm diam. 45° bend. Hot blow only	336414	4003019016204	1
NR04	2.5mm diam. straight. Hot blow only	336413	4003019015597	1
DR05	2 x 2.5mm 9.5mm ctrs. Hot blow only			1
NR05	4mm diam. straight. Hot blow only	333660	■ 352035	1
NR10	0.7mm	333661	4003019005666	1
ND05	10.8 x 7mm SO14, SO16	333670	● 062673	1
ND10	14 x 10mm SOL14, SOL16, SOL16-J, SOL20, SOL-J20	333662	4003019002986	1
ND15	19 x 12mm SOL24, SOL-J24, SOL-28, SOL-J28	335204	4003019044719	1
ND20	21.5 x 14.8mm SOL 32	335205	4003019022144	1
NQ05	10.7 x 10.7mm PLCC20, LCCC14, LCCC24 C-QFP24	335206	4003019047710	1
NQ10	14.8 x 14.8mm PLCC28, QFP44, LCCC28, QFP48	333672	● 045048	1
NQ15	14.5 x 10mm PLCC32R	333677	■ 336776	1
NQ20	15.5mm x 13mm	333676	● 336767	1
NQ25	18 x 18mm PLCC44, CLCC44, PQFP44, PQFP60, QFP64, QFP60, TSOP100 QFP100	333678	4003019015504	1
NQ30	17.5 x 23.5mm QFP56, QFP60, QFP64, QFP80, QFP88, QFP100.	333408	4003019016396	1
NQ35	20.5 x 20.5mm PLCC52, BQFP84	333682	4003019015566	1
NQ40	26 x 26mm C-QFP64, PLCC68, CLCC68	333684	● 045010	1
NQ45	31.3x 31.3mm CLCC84, PLCC84, QFP100 QFP120, QFP128, QFP132, QFP136, QFP144 QFP160, C-QFP80, BQFP164, BQFP132, MQUAD208L, MQUAD184L MQUAD144L, QFP208	333686	4003019015697	1
NQ50	36 x 36mm QFP240	333685	■ 336851	1
NQ55	43 x 43mm CQFP304	333679	■ 336790	1
NA20	Measuring Nozzle	333491	■ 334918	1
NDSK535/A	8.5 x 20mm TSOP 20/0.5P		0058736932	1
NDSK535/B	10.5 x 20mm TSOP 40/0.5P		0058736933	1
NDSK535/C	14.0 x 20mm TSOP 56/0.5P		0058736934	1
SK460/A	24 x 12mm Q-CPM-9401		0058736880	1
NQS	11.5mm x 14mm PLCC32R Socket		0058736945	1

S.M.T. TIPLETS, SUITS WTCPS/T and EC Stations with EC1201 pencils WES50D and WSP80 Stations

Cat. No.	Chip	Size	Product Code	APN/UPC	Shelf Pack
SMT0504A	0405	1.0 x 1.3 x 1.0	359090	● 590909	1
SMT0504A	0504	1.3 x 1.0 x 1.0	359090	● 590909	1
SMT0504A	0505	1.3 x 1.3 x 1.0	359090	● 590909	1
SMT0805B	0705	1.8 x 1.3 x 1.0	359091	● 590916	1
SMT0805B	0805	2.0 x 1.3 x 1.3	359091	● 590916	1
SMT1206D	1206	3.0 x 1.5 x 1.5	359092	● 590923	1
SMT1206D	1210	3.0 x 2.5 x 1.6	359092	● 590923	1
SMT1505E	1505	3.8 x 1.3 x 1.6	359099	● 590992	1
SMT1808F	1808	4.6 x 2.0 x 1.6	359093	● 590930	1
SMT1808F	1812	4.6 x 3.0 x 1.6	359093	● 590930	1
Melf					
SMT80H	SOD80	3.5 x 1.6 Dia	359094	● 590947	1
SMT80H	SOD87	3.5 x 1.0 Dia	359094	● 590947	1
Small Outline Transistor					
SMT23I	SOT23	3.0 x 2.5 x 1.1	359095	● 590954	1
SMT23I	SOT89	3.0 x 2.5 x 1.1	359095	● 590954	1
SMT89J	SOT143	4.6 x 4.2 x 1.6	359101	● 591012	1
Small Outline I.C.					
SMT8K	SO8	5.0 x 4.0 x 1.7	359102	● 591029	1
Adaptors					
	SMTA	(EC, WES50)	359097	● 590978	1
	SMTA6 600F	(WTCPT) e	359104	● 591043	1
	SMTA8 800F	(WTCPT) e	359105	● 591050	1
	SMTA (WSP80)		335333	● 151353	1

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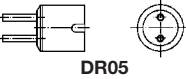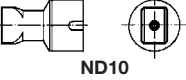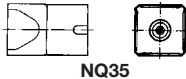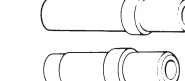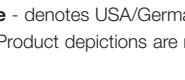Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools

Fume Extraction

The Weller Zero Smog systems remove solder fumes at the point of work. The soldering process generates smoke fumes and gases which are at best unpleasant and potentially dangerous, resulting in possible long term health problems for production operators and legal responsibilities for employers. Weller Zero Smog soldering irons, fume extraction attachments, filtration systems and a wide range of accessories provide solutions to airborne pollution from soldering fluxes.

Volume Extraction

For users requiring volume extraction systems, the WFE2S and WFE4S systems to operate on 2 and up to 6 work stations respectively have been introduced.
A wide range of accessories for volume extraction are available.

Tip Extraction

Weller Fume Extraction soldering irons have an integral smoke tube, which in operation is placed over the solder joint to collect the fumes. Fume extraction attachments can be fitted to standard soldering irons. WFEP2 bench top unit can each drive two irons and the larger WFE10 and WFE35 units capable of driving10 and 35 irons respectively provide the flexibility for bigger installations.

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COOPER Hand Tools
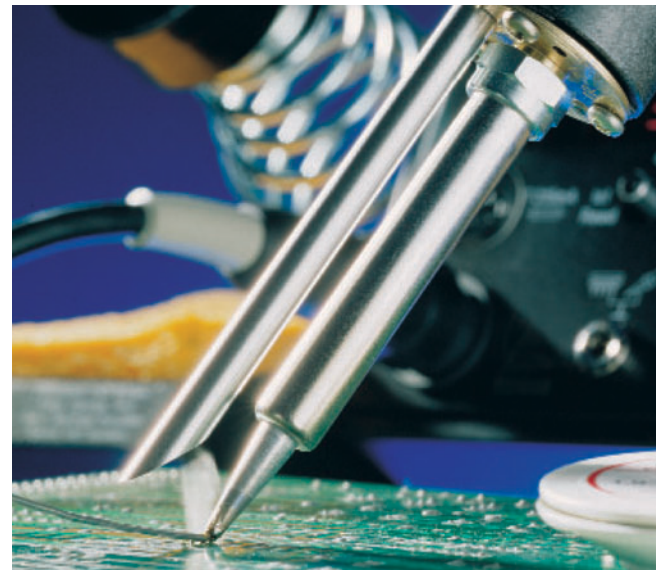
Weller offer a 3 step filter system for use with bench top and volume extraction systems and a four step filter system for larger tip extraction systems.
There is a range of filter grades to meet the demands of the workplace.

Fine particulate air filter DIN 24185 / EN 779

Filter Class	Average Deposition activitiy against dust Am %	Average Deposition activity against aerosol Em %	Application
F5	> 97	40 - 60	for standard applications
F7	> 98	80 - 90	for applications with more flux
F9	> 99	> 95	for applications with high amount of particles such as desoldering of enamelled wires

Submicron particulate air filter DIN 24184, 24183 / EN 779
HEPA (**H**igh **E**fficiency **P**articulate **A**ir) Filter

Filter Class	Average Deposition %	Application
H13	> 99,95	final filter suitable for pure areas class 1000-100

Filtering Process

1. Fine Particulate Air Filter
Suitable for normal soldering applications filter grade F5.
Suitable for applications using greater amounts of flux filter grade F7. Suitable for applications high particulates filter grade F9.

2. Submicron Particulate Air Filter
HEPA (High Eff Particulate Air) filter grade H13 to capture upto 99.95% of particles of 0.3 µm.

3. Wide Band Gas Filter
To eliminate the harmful gases, the wide band gas filter is a combination of active carbon to absorb gases with higher molecular weight and Puratex to absorb gases of lower molecular weight.
Because of its composition, Puratex is able to remove many chemical pollutants from gases by molecular modification thereby returning clean air back to the work place.

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
WFE20D	e		1	Mobile Solder fume extraction unit with built-in turbine for up to 20FE soldering irons

Consists of:
  • Extraction Unit
  • Fine Dust filter F7
  • Compact filter (consists of HEPA filter and wide band gas filter)

WFE 20D Mobile Fume Extraction Unit

The WFE 20D has been designed for fume extraction direct from the soldering tip. Up to 5 Weller FE soldering irons can be connected directly. The capacity is 20 FE soldering irons with the optional DN 40 tubing system. The powerful maintenance free electronically controlled turbine provides a maximum vacuum of 12.000 Pa. The microprocessor also ensures detection of operating hours and the status of filter absorbency. The three-stage filter system is suitable for use with soldering fumes. The filter system consists of a fine particulate air filter F5 and a combined submicron particulate air filter H13 plus wide band gas filter (50 % AKF, 50 % Puratex).
It removes 99,95 % of contaminants up to 0,12 µm according to EN 1822.

The WFE 20D Features:
• Two operation modes:
  - Mode 0: constant vacuum at 12.000 Pa
  - Mode 1: vacuum adjustable from 20 % - 100 % via buttons
• Electronically controlled filter status control through filter differential pressure measurement (control LED). The unit switches off automatically after exceeding the permitted degree of contamination.
• Electronically controlled filter operating hours. The filter operating hours can be entered as default setting for better handling of the filter exchange intervals.
• RS 232 interface for remote control. With the optional remote control the following functions can be operated:
  - switching the unit on/off
  - speed setting in mode 1
  - filter status display

Technical Data WFE 20D
Dimensions (W x D x H): 450 x 450 x 695 mm
Weight: 45 kg
Mains: 230 V
Power Absorption: 630 VA
Sound Level: 51 dB(A)
Max. Vacuum: 12.000 Pa
Max. Conveyance: 100 m3/h
Capacity: 20 FE soldering irons

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COOPER Hand Tools

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
WFE2S e	**332978**	■ 329785	1	The Weller WFE2S system for volume extraction provides volume fume extraction capability for two work stations. A powerful maintenance free variable speed motor provides an air flow rate of 230m3/h when running at max speed. A built-in micro processor controls the adjustable speed of the turbine. The three stage filter system is fitted as standard and is easy to replace, consisting of a fine particulate air filter and a combined submicron particulate air filter + wide band gas filter. The WFE 2S comes with 1 pipe connector (2 optional). A wide range of accessories including arms with conical nozzle, flat nozzle small vent, extraction hood and tray provide for maximum flexibility.

Technical Data WFE 2S:

Dimensions	320 x 320 x 395 mm (L x W x H)		
Weight	19 kg	Mains	230 V
Power Absorption	275 VA	Sound Level	48 db(A) at 1 m
Max. Vacuum	2.700 PA	Max Airflow	230 m3/h
Max. Capacity	2 work places	Standard connector	DN 40

Potentiometer for speed control
LED for filter control
RS 232 interface for remote control

e	**58735885**			Fine particulate air filter (10 pack)
e	**58735883**			Main filter cartridge consists of: • Submicron pariculate air filter (H13) • Wide band gas filter (50% active carbon, 50% Puratex)

For assembly, rework, service and laboratory applications the Weller WFE 2S Zero Smog fume extraction system is available in two kit forms. Each kit comes ready for use and provides volume fume extraction for either one or two work stations. Both versions have the WFE 2S as the base equipment and have suitable accessories for quick installation. The accessories consist of flexible extraction arms and extraction hoses, extraction plate, extraction hood, extraction nozzles and table-mounting set. For professional use the accessory parts are ESD-safe.

WFE2S Kit 1 e	**53643699**	One Workplace • 1 Fume extraction unit WFE2S • 1 Extraction arm with nozzle WFAN 50, flexible, 50 mm diameter • 1 Table-mounting set WFTB 50 • 1 Seal WFFMP 50 • 1 Flexible hose NW 50 (3 m)
WFE2S Kit 2 e	**53645699**	Two Workplaces • 1 Fume extraction unit WFE2S • 2 Extraction arms with nozzle WFAN 50, flexible, 50 mm diameter • 2 Table-mounting sets WFTB 50 • 2 Seals WFFMP 50 • 2 Flexible hoses NW 50 (3 m)

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COOPER Hand Tools

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description
WFE4S　e	335151	■ 351519	1	The Weller WFE4S fume extraction unit provides volume extraction capability for up to 6 work places. A powerful maintenance free variable speed motor provides an airflow rate of 615m3/h at max speed. A built-in microprocessor controls the adjustable speed of the turbine. The airflow rate is continuously displayed digitally. The microprocessor also ensures detection of operating hours and the level status of filter absorbency. The three-stage filter is fitted as standard and is easy to replace, consisting of a fine particulate air filter and combined submicron particulate air filter + wide band gas filter. The WFE 4S centralized system is supplied complete with one pipe connector (three optional) and is easily connected to the pipe system. A wide range of pipe accessories including arms with conical nozzle, flat nozzle small vent, extraction hood and tray provide for maximum flexibility.

Technical Data WFE 4S:

Dimensions	450 x 450 x 650 mm (L x W x H)		
Weight	21 kg	Mains	230V / 50Hz
Power Absorption	450VA	Sound Level	51 db(A)
Max. Vacuum	2.800 Pa	Max. Conveyance	615 m3/h
Max. Capacity	Max. 6 work places	Standard connector	DN 70

3 operating modes (Normal-/ ECO-/ Regelmode)
LED for filter control
RS 232 interface for remote control

e	58735836			Fine particulate air filter (10 pack)
e	58735838			Main filter cartridge consists of: • Submicron pariculate air filter (H13) • Wide band gas filter (50% active carbon, 50% Puratex)

To expand filter capacity of all fume extraction units, e.g. for solder baths, solder robots or even laser applications.
To be assembled directly on top or as stand-alone.

e	58735862			Prefilter box • Filter box • Fine particulate air filter (F7) • 2 pieces of hose adaptor DN70

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools

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Cat. No./ Reference	Product Code	APN/UPC	Shelf Pack	Description

Smoke Absorber

NSA-ESD	**492108**	■ 921088	1	Smoke Absorber • Efficient, quiet, powerful fan provides excellent smoke absorption at low noise • Filtration is accomplished with an activated carbon impregnated urethane foam filter • For the absorption of fumes from soldering, desoldering, paint, glue and other solvents • Easy to postion and adjust as required • Ideal for the hobbyist and workshop Dimensions: 200mm x 208mm x 130mm
NSAF3	**492109**	■ 921095	1	Carbon Replacement Filters for NSA-ESD (pack of 3)

Solder Fume Extracting Unit

WFEP2	**335263**	4003019028474	1	The Weller WFEP is an electrically-driven solder fume extracting unit designed to cleanse fumes from up to two FE soldering pencils. The compact size makes it convenient to use anywhere. The 230V/50Hz silent running maintenance free rotary pump makes the WFE P independent from external air sources. A thermal overload protects the unit from overheating.The WFEP has an efficient three-stage filter system.

Technical Data WFEP2:

Height	295 mm	Weight	4 kg
Diameter	140 mm	Mains	230 V/50Hz
Power Absorption	50 W	Sound Level	40 db(A) at 1 m
Max. Vacuum	-30.000 Pa	Max. Capacity	2

	336400	■ 364007	1	Main Filter Cartridge • Submicron particulate air filter (H13) • Wide band gas filter (50% active carbon, 50% Puratex)
	336401	■ 364014	1	Fine Particulate air filter (10 pack)

Exploded Drawing: see page 39

Solder Fume Extraction Stations and Pencils

WTCPTDFE	**332502**	■ 325022	1	WTCPTD station. See page 4 for WTCPTD details
TC201BFE	**332506**	■ 325060	1	Fume extraction pencil for the WTCPTD station 42W 24V
EC1201AFE	**333731**	■ 337315	1	Fume extraction pencil for the EC series station 40 W 24V
WSP80FE	**335119**	■ 351199	1	Fume extraction pencil for the WSD81 station 80W 24V

Solder Fume Extraction Pencil Adaptors

AKFE1-1	**e**	**334120**	● 060600	1	TCP, TC201, EC1201A fume extraction pencil adaptor
ECMFE	**e**	**334180**	■ 028167	1	EC1301A, EC130A/B, WES51 fume extraction pencil adaptor
52916799	**e**	**335120**	4003019009527	1	WSP80 fume extraction pencil adaptor

Fume Extraction Stands: from page 36

PH1201FE		**332531**	9337103325312	1	Stand for TC201 and EC Series
WPH80	**e**	**335114**	4003019014354	1	Stand for WST80 and WST81

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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Exploded Drawing for WFE2P

5 87 357 39
5 87 358 14
5 87 357 55
5 87 357 56
5 87 350 94
5 36 410 99
5 36 421 99
Top
Oben
5 87 357 42
5 87 357 40

Installation Option for a Central System with WFE P

Stop + Go-support
KH E
WDD 161V
WFE P
soldering iron
desoldering iron

Installation Option for a Central and Stand Alone System with WFE 20D

central system

WSD 81
WMD 3
extraction hose 5 mm
> 2,5 m bis max. 10 m
005 25 410 00
connecting element 40-50
005 36 415 99
RS 232 cable (2 m)
005 31 191 99
WFE 20D
remote control
005 87 359 09

stand alone system with pipe system 50
upto ca. 200 m

right angle pipe 50
005 36 322 99
pipe 50
005 36 323 99
T-piece 50
005 36 344 99
pipe 50
005 36 323 99
branch 50
005 36 321 99
double socket 50
005 36 319 99
connecting element 40-50
005 36 415 99
connecting nipple for extraction hose 5 mm
005 36 338 99
pipe clamps 50
005 36 329 99
end seal 50
005 36 324 99
connecting nipple for hose 17
005 36 358 65
pipe 50
005 36 323 99
end seal 50
005 36 324 99
extension hose 17
005 36 326 99
extraction hose 40
005 36 414 00
adapter 17
005 36 343 99

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Installation Option for a Central System with WFE 2S

Installation Option for a Central and Stand Alone System with WFE 4S

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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Weller®
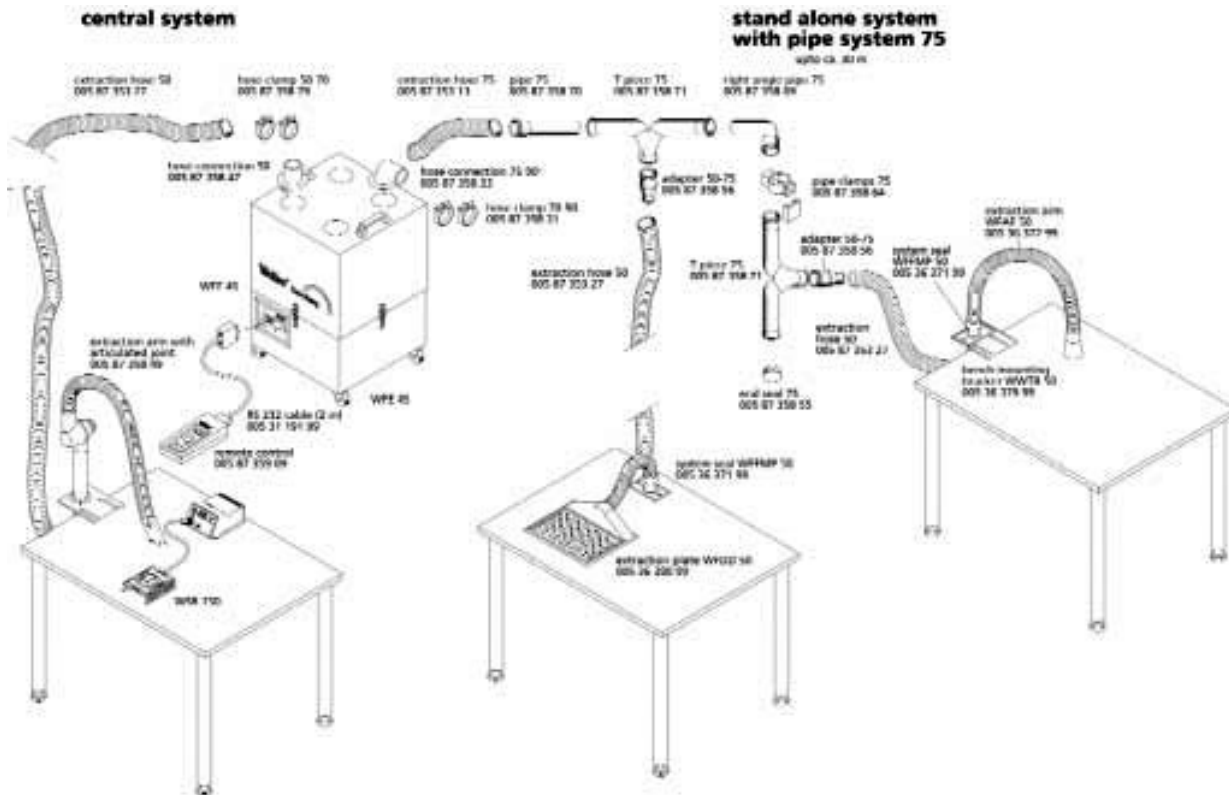
Accessories for Pipe System 50 and Pipe System 75 Tubing Systems

Catalogue Number	P/code SYS50	P/code SYS75	Description
53632399	e 339101	58735870	2m tube with socket
53632799	e 337265	58735869	90° bow with socket
53634499	e 337264	58735871	T-distributor 2 x 90° bow with socket
53632199	e 337266	Not Applicable	2 x 45° bow with socket
53631999	e 334347	58735318	Double socket
53632499	e 337267	58735855	Tube end cap
58735864	e 53632999		Tube clamp DN50
	e	58735864	Tube clamp DN75

Tube Reductions

58735863	e		Reduction from SYS75 to SYS50 with seals
58735856	e		Reduction from SYS75 to SYS50 without seals

Exhaust Assembly

53635399	e		DN100 90° bow with socket for WFE10 and WFE35
53631599	e		2m breather tube 100mm without seal for WFE20D and WFE4S
58735919	e		Exhaust flange for DN100 tube(only for use with WFE10)
58735840	e		Exhaust flange for DN100 tube (only for use with WFE4S)
58735920	e		Exhaust Adaptor 75 for WFE25

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools

Accessories for Tip Suction

Catalogue Number		Description
53631699	**e 334080**	Extraction Hose, 1m. 40mm DIA. Complete with two connecting cones for direct connection to WFE20D.
53641400	**e**	Extraction Hose, 40mm DIA. Sold by the metre.
53641599	**e**	Connection Cone for Extraction Hose.
53632699	**e**	17mm DIA x 5m Extension Hose. Used where fume extraction iron is further than 2.5m from pipe system. Requires connection nipple and adaptor.
53634399	**e 336440**	Adaptor from DN17 to 5mm suction hose (M8 x 1)
53633899	**e 336441**	Hose Connector for Hose 5mm (M8 x 1)
58735865	**e**	Connection Nipple
58735866	**e**	3/8" Nut

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

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Accessories for Tip Suction

Catalogue Number	P/code 50mm	P/code 75mm	Description
	e 334085	e 335258	Suction flange for WFE2S and WFE4S
	e 335199	58735833	Suction flange 90º for WFE2S and WFE4S
	e 335292		Hose NW50 for DN40 tube system (metre goods)
		e 58735313	Hose NW75 for DN70 tube sysrem (metre goods)
	e 58735879		Hose clamp (2 pieces) 50-70mm for hose NW50
		e 58735831	Hose clamp (2 pieces) 70-90mm for hose NW75

The following products are suitable for 50mm Diameter. When using a 75mm Diameter Hose, a tube reducer will be required (see page 41)

Catalogue Number	P/code	Description
	e 53637099	Extraction table, active surface 600 x 350mm connectable from sides or below for tube system DN40, especially for the extraction of diagreeable solvent or adhesive smells.
	333157	Metal table extraction hood 200 x 100mm connectable to the DN40 tube system. Suitable for the extraction of solder fume in hot air applications or for work at small circuit boards.
	e 58735849	One joint extraction arm, flexible, for bench assembly Ø 50mm, includes clamp holder, air flow adjustable, ESD Safe
	e 330030	WFAN 50 Extraction arm Ø 50 mm, flexible, with nozzle Ø 50 mm, ESD safe, needs WFFMP 50 seal
	e 53637299	WFAF 50 Extraction arm Ø 50 mm, flexible, with funnel Ø 100 mm, ESD safe, needs WFFMP 50 seal
	e 53637399	WFAS 50 Extraction arm Ø 50 mm, flexible, with slot 210 x 20 mm, ESD safe, needs WFFMP 50 seal
	e 53637899	WFAS 50 Extraction arm Ø 50 mm, flexible, with slot 210 x 20 mm, ESD safe, needs WFFMP 50 seal
	e 53638099	WFDD 50 Extraction plate 300 x 210 mm, with flexible hose 1 m, ESD safe, needs WFFMP 50 seal
	e 333156	WFFMP 50 seal, locking adjustable
	e 330020	WFTB 50 Table mounting set

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools

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SPARE PARTS   WTCPS, WTCPT, WTCPD and FE MODELS
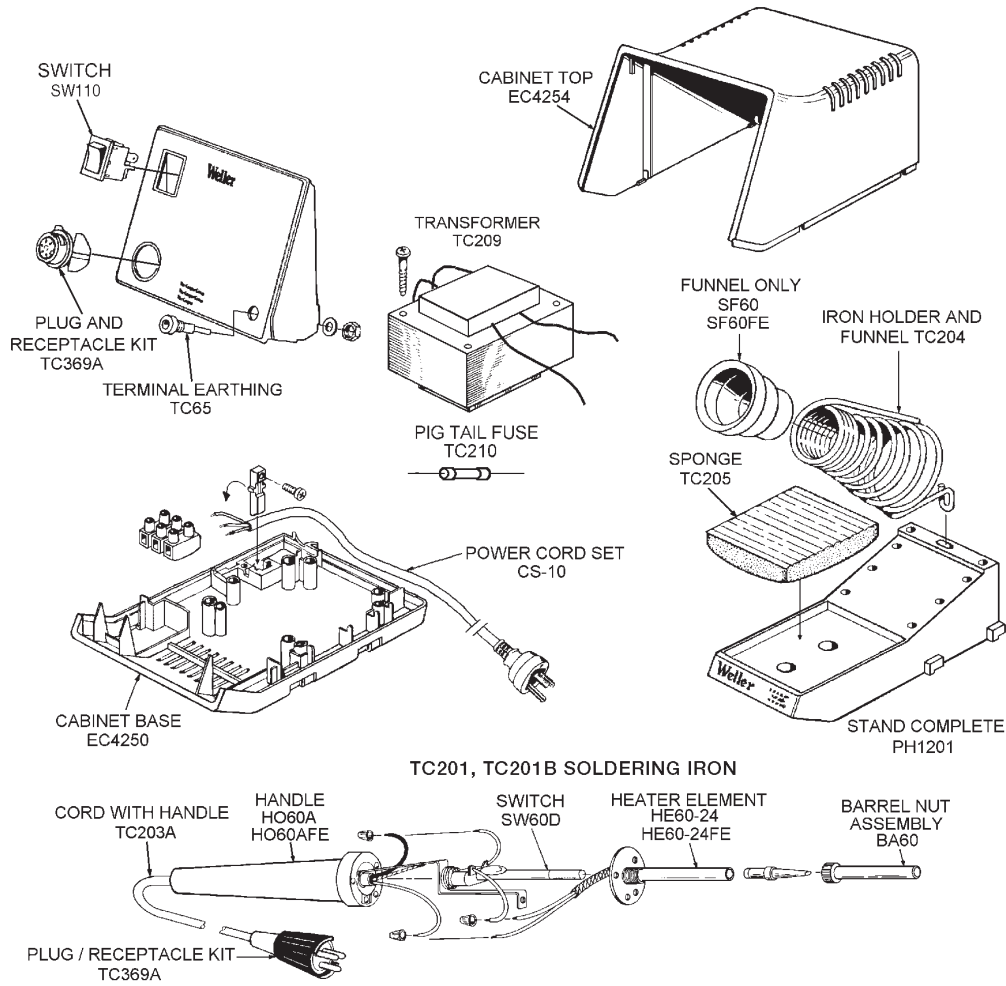
Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
BA60	Barrel Nut Assembly	**330195**	● 473967	1
CS-10	Power Cord Set	**332954**	■ 329549	1
EC4250	Cabinet Base	**333282**	■ 332822	1
EC4254	Cabinet Top	**333904**	■ 339043	1
HE60-24	24 volt Heating Element	**332923**	■ 472214	1
HE60-24FE	24 volt Heating Element, Fume Extraction	**333186**	■ 331863	1
HO60A	Handle	**332930**	■ 472139	1
HO60AFE	Handle,Fume Extraction	**333190**	■ 331900	1
PH1201	Stand Complete	**332529**	■ 476496	1
SF60	Funnel Only	**332936**	■ 329365	1
SF60FE	Funnel Only, Fume Extraction	**333174**	■ 331740	1
SW60D	Switch, Temperature	**330183**	■ 474072	1
TC201	Soldering Pencil suits WTCPS/T	**332505**	■ 475055	1
TC201B	Soldering Pencil suits WTCPTD	**332518**	■ 325183	1
TC202DT	Power Unit Complete (Pre June 2000)	**332943**	■ 476458	1
TC202DT2	Power Unit Complete (Post June 2000)			
TC203A	Cord Set with Handle	**333057**	■ 475123	1
TC203B	Cord Set with Handle (WTCPTD)			
TC204	Iron Holder and Funnel	**332935**	■ 475161	1
TC205	Sponge	**332920**	● 475176	10
SW110	Switch	**333283**	■ 333287	1
TC209	Transformer Only	**330122**	■ 476878	1
TC210	Fuse	**330124**	■ 301248	1
TC369A	Plug & Receptacle Kit	**330119**	■ 477974	1

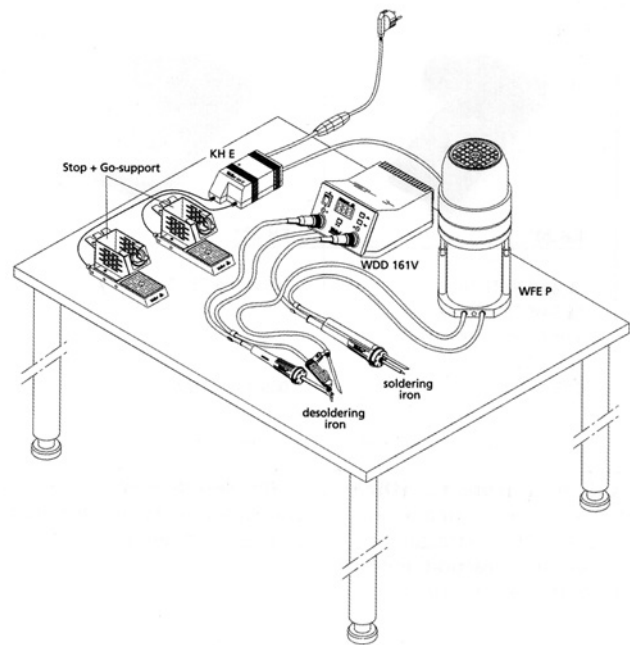**e** - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

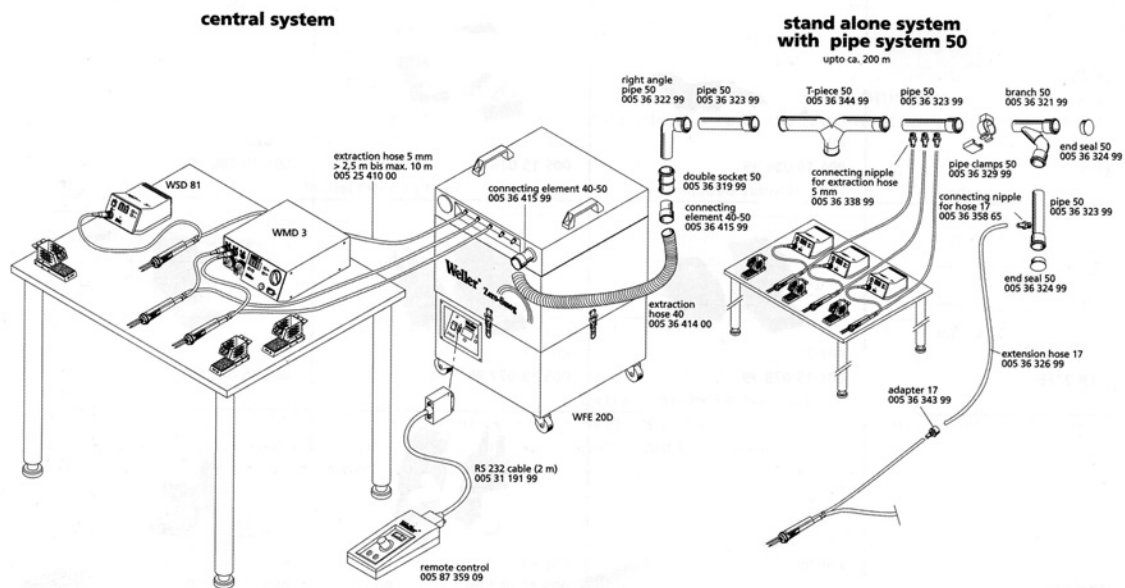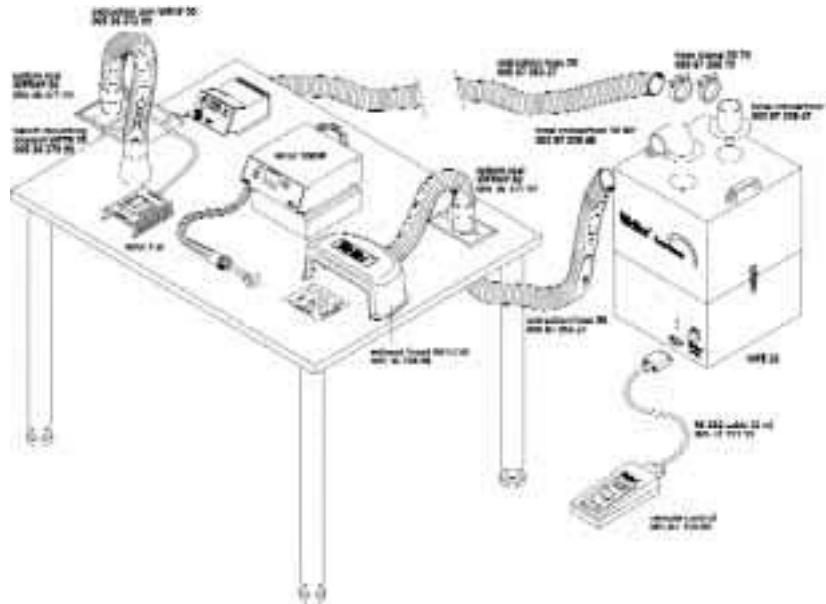**COOPER** Hand Tools

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SPARE PARTS WES50/PES50 MODELS
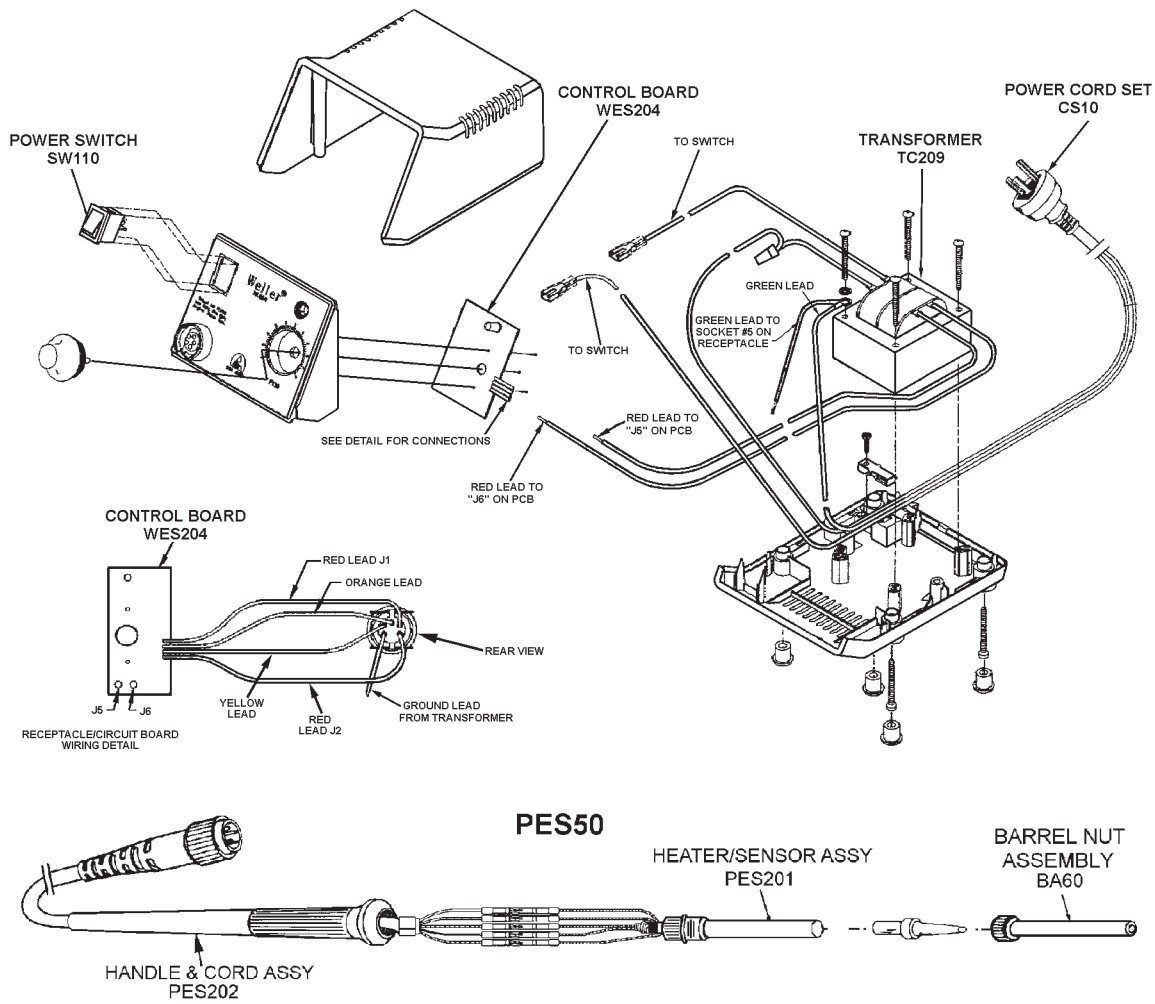
Catalogue No.	Description		Product Code	APN/UPC	Shelf Pack
PW50	Lockout Pencil		332496	■ 324964	1
PH50	Stand with Spring & Funnel for PES50 Tool		333957	● 161093	1
PES50	Soldering Iron		333958	● 161154	1
SW110	Power Switch		333283	■ 332839	1
WES204	Circuit Board		333949	■ 339494	1
TC209	Transformer		330122	■ 476878	1
BA60	Barrel Nut		330195	● 473967	1
TC205	Sponge		332920	● 475176	1
CS10	Power Cord Set		332954	■ 329549	1
PES201	Heater/Sensor Assembly	e	333956	● 165206	1
PES202	Cord/Handle Assembly	e	333955	■ 339555	1

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SPARE PARTS   **WES51/WESD51D/PES51 MODELS**
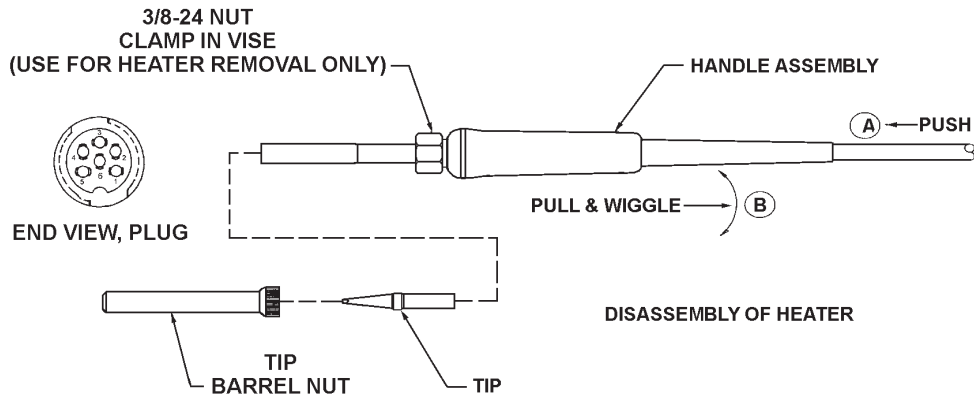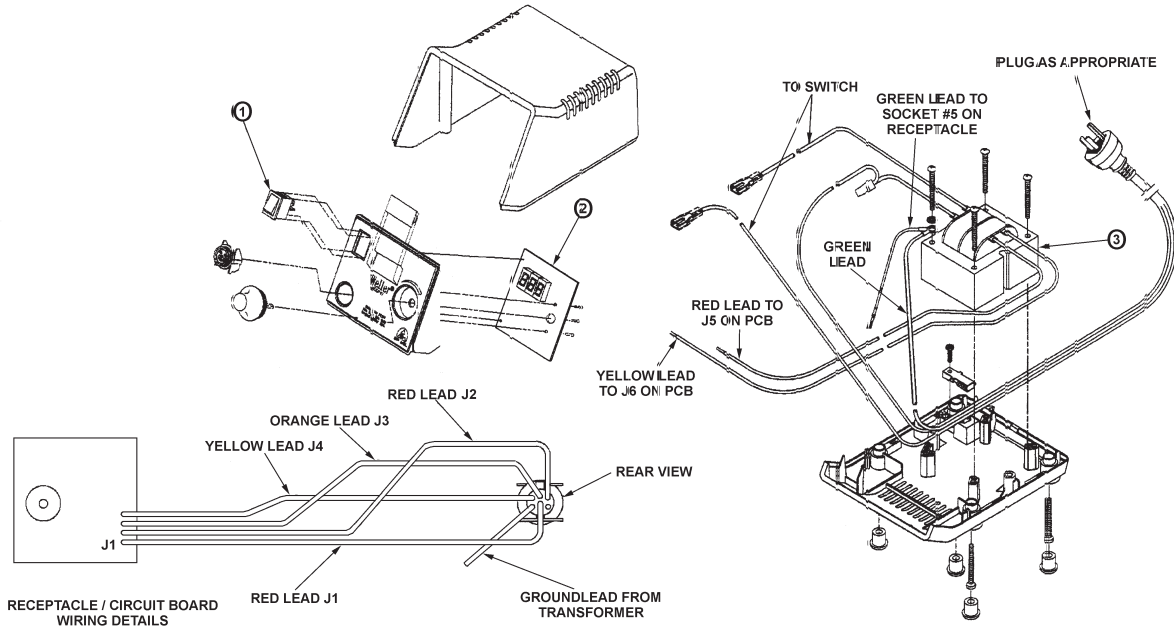
Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
PW50	Lockout Pencil	332496	■ 324964	1
PH50	Stand with Spring & Funnel for PES50 Tool	333957	● 161093	1
PES51	Soldering Iron	333969	■ 339692	1
SW110	Power Switch	333283	■ 332839	1
WES206	Circuit Board, WES51D	333965	■ 339654	1
WES207	Circuit Board, WESD51D	333964	■ 339647	1
TC209	Transformer	330122	■ 476878	1
BA60	Barrel Nut	330195	● 473967	1
TC205	Sponge	332920	● 475176	1
CS10	Power Cord Set	332954	■ 329549	1
PES201	Heater/Sensor Assembly	333956	● 165206	1
PES202	Cord/Handle Assembly	333955	■ 339555	1

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SPARE PARTS   WSD81/WSL

DK   5 70 073 99
I   5 70 043 99
CH   5 70 072 99
GB   5 70 070 99
F D 5 70 040 99

5 87 488 05

5 87 487 36 T500mA (230V)
             (5 Stck)

5 87 488 64 T1,0A (120V)
             (5 Stck)

5 87 489 34

5 87 447 13   5 87 488 04   5 87 487 32   5 87 489 35

5 87 488 07   5 87 489 36

5 87 487 40 (230V)
5 87 487 98 (100/120V)

5 87 489 37 (230V)
5 87 489 38 (100/120V)

5 87 447 29   5 87 447 57

5 87 447 30

5 87 447 12

5 87 489 02

5 87 487 28
(4 Stck)

5 22 419 99

5 87 447 11

LT−Serie

5 87 447 10   5 87 038 92

5 87 039 13
(4 Stck)

4D9R729

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EXPLODED DRAWINGS

ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS **WSD161**

DK	5 70 073 99
I	5 70 043 99
CH	5 70 072 99
GB	5 70 070 99
F D	5 70 040 99

5 87 488 05

5 21 417 99 T800mA
(5 Stck)

5 87 487 32

5 87 489 34

5 87 447 13

5 87 488 04

5 87 489 42

5 87 447 29

5 87 447 57

5 87 489 43

5 87 487 74

5 22 419 99

5 87 488 07

5 87 489 44

5 87 039 13
(4 Stck)

5 87 038 92

5 87 447 30

5 87 487 28
(4 Stck)

5 87 447 12

5 87 489 02

5 87 447 11

LT–Serie

5 87 447 10

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS   **WSD151**

DK	5 70 073 99
I	5 70 043 99
CH	5 70 072 99
GB	5 70 070 99
F D	5 70 040 99

5 87 488 05

5 21 417 99 T800mA
(5 Stck)

5 87 489 34

5 87 488 04   5 87 487 32   5 87 489 39

5 87 488 07   5 87 489 40

5 87 487 74

5 87 489 41

5 87 447 94   5 87 487 44

5 22 419 99

5 87 489 02

5 87 487 28
(4 Stck)

5 87 038 92

5 87 067 85

5 24 204 99
(10 Stck)

5 87 039 13
(4 Stck)

5 87 167 47

4D9R730/1   5 87 167 91   5 87 167 92   5 87 447 61   LHT–Serie   5 87 447 95

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS   EC1001D, EC2001D, EC2002D, EC3002D AND EC4001D

SWITCH
SW110

KNOB
EC3774

EC238 DISPLAY BOARD ONLY (EC2002D)

CABINET TOP
EC4256

PLUG & RECEPTACLE
EC213

CONTROL BOARD
EC239 (EC1001D, EC1002D)
EC244 CONTROL/DISPLAY BOARD (EC2002D)

TERMINAL EARTHING
TC65

TRANSFORMER
TC209 (EC1001D, EC1002D)
EC211D (EC2002D)

POWER CORD SET
CS-10

PIG TAIL FUSE
TC210

CABINET BASE
EC4250

Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
CS-10	Power Cord Set	**332954**	■ 329549	1
EC211D	Transformer, 24 & 9 V		■ 479497	1
EC213	Plug, Receptacle Kit	**333345**	■ 477981	1
EC238	Display Board complete (EC2001)	**330199**	■ 480554	1
EC239	Control Board (EC1001)	**330200**	■ 480790	1
EC244	Control / Display Board complete (EC2001) ºC	**330202**	■ 480941	1
EC4250	Cabinet Base	**333282**	■ 332822	1
EC4256	Cabinet Top	**333903**	■ 339036	1
SW110	Switch	**333283**	■ 333287	1
TC209	Transformer Only	**330122**	■ 476878	1
TC210	Fuse	**330124**	■ 301248	1

For Soldering Iron Spare Parts see pp (54-55)

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS   EC1002S

SWITCH
SW110

KNOB
EC2314

RECEPTACLE
EC270

TRANSFORMER
TC209

WIRING HARNESS
EC270

PIG TAIL FUSE
TC210

CABINET TOP
EC4256

CIRCUIT BOARD
EC271

YELLOW LEAD

BROWN LEAD

POWER CORD SET
CS-10

CABINET BASE
EC4250

Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
CS-10	Power Cord Set	**332954**	■ 329549	1
EC213	Plug, Receptacle Kit	**333345**	■ 477981	1
EC270	Receptacle and Harness	**333280**	■ 332808	1
EC271	Control Board (Complete)	**333791**	■ 337919	1
EC4250	Cabinet Base	**333282**	■ 332822	1
EC4256	Cabinet Top	**333903**	■ 339036	1
SW110	Switch	**333283**	■ 333287	1
TC209	Transformer Only	**330122**	■ 476878	1
TC210	Fuse	**330124**	■ 301248	1

For Soldering Iron Spare Parts see pp (54-55)

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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COOPER Hand Tools

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EXPLODED DRAWINGS

ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS   EC2002M

SWITCH
SW110

CABINET TOP
EC4256

RECEPTACLE
EC270

CIRCUIT BOARD
ASSEMBLY
EC269

YELLOW LEAD

TRANSFORMER
TC209

WIRING HARNESS
EC270

BROWN LEAD

POWER CORD SET
CS-10

PIG TAIL FUSE
TC210

CABINET BASE
EC4250

Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
CS-10	Power Cord Set	**332954**	■ 329549	1
EC269	Control Board (Complete)	**333279**	■ 332792	1
EC270	Receptacle and Harness	**333280**	■ 332808	1
EC4250	Cabinet Base	**333282**	■ 322822	1
EC4256	Cabinet Top	**333903**	■ 339036	1
SW110	Switch	**383283**	■ 333287	1
TC209	Transformer Only	**330122**	■ 476878	1
TC210	Fuse	**330124**	■ 301248	1

For Soldering Iron Spare Parts see pp (54-55)

e - denotes USA/Germany stock requiring freight lead times.   52
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools

ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS   WSD80D

5 87 380 14

CS 120

5 87 437 36 T500mA
5 Pieces

5 26 721 99

5 87 487 33

5 87 487 32

5 87 430 20

5 87 447 13

5 87 487 38

5 87 030 07   5 87 487 38

5 87 487 40

5 87 447 29

5 87 487 37

5 87 447 30

5 87 447 12

5 87 447 11

5 22 419 99

Lt Series

5 87 487 28
4 Pieces

5 87 447 10

5 87 038 92   5 87 030 13

Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
CS120	Power Cord Set			1
58744711	Element/Sensor	333111	■ 331115	1
58744710	Barrell/Nut Assembly	334134	■ 341343	1
WSP80	Soldering Pencil	333112	■ 331122	1
WHP80	Stand WSP80	335114	4003019014354	1

**ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.**

SPARE PARTS **PH1201**
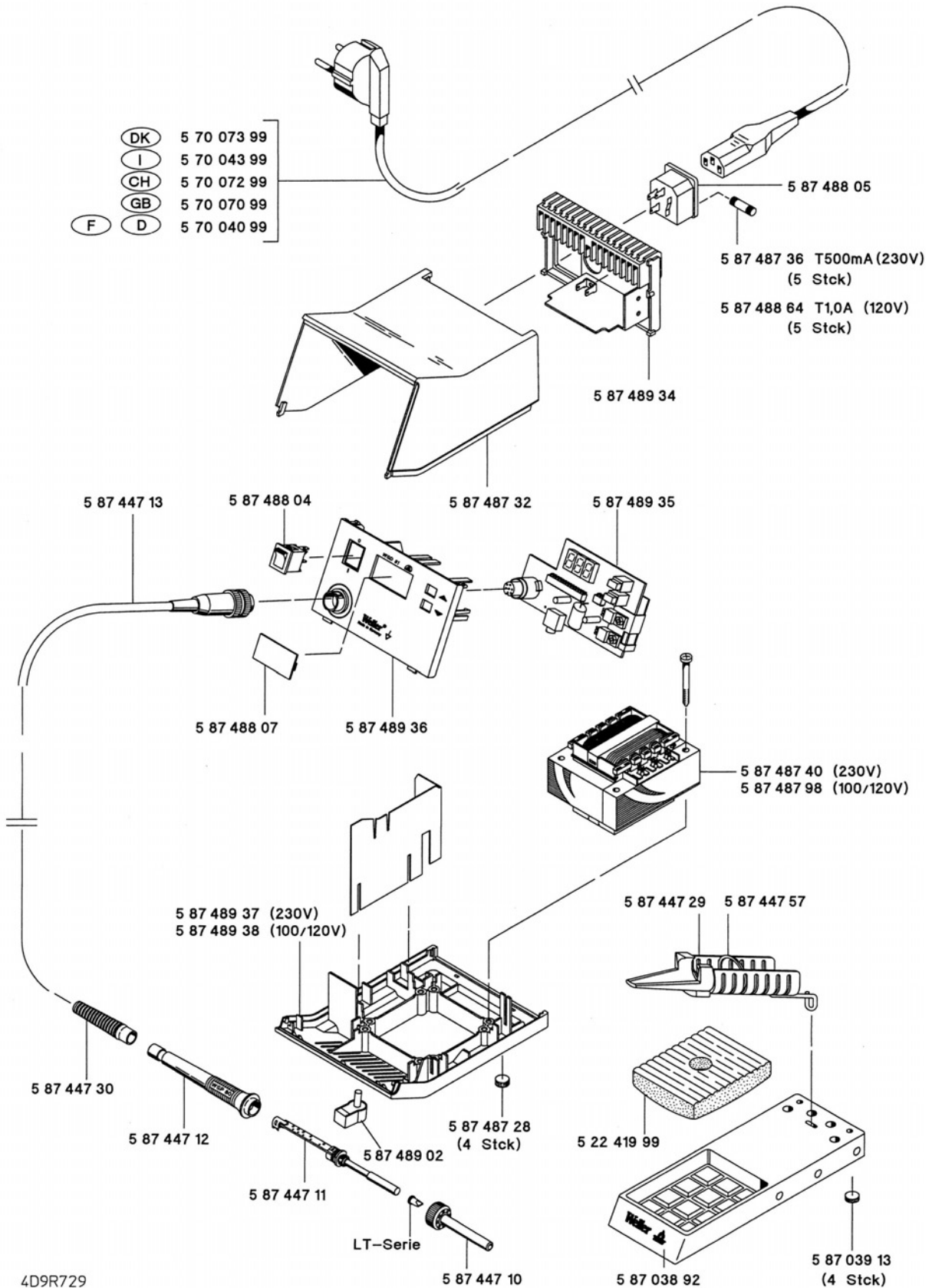
FUNNEL ONLY
SF60
SF60FE

IRON HOLDER AND
FUNNEL TC204

SPONGE
TC205

STAND COMPLETE
PH1201

Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
SF60	Funnel Only	332936	■ 329365	1
SF60FE	Funnel Only, Fume Extraction	333174	■ 331740	1
TC204	Iron Holder and Funnel	332935	■ 475161	1
TC205	Sponge	332920	● 475176	10
PH1201	Stand Complete	332529	■ 476496	1
PH1301	Stand Complete	332530	■ 476915	1

SPARE PARTS **EC1201A SOLDERING IRON**

SENSOR EC229 ELEMENT EC234 EC234FE BARREL NUT ASSEMBLY BA60

HANDLE HO60A HO60AFE

HANDLE & CORD ASSY EC223A

Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
BA60	Barrel Nut Assembly	330195	● 473967	1
EC213	Plug, Receptacle Kit	333345	■ 477981	1
EC229	Sensor Assembly	333359	■ 479114	1
EC233A	Cord Assembly	330197	■ 301972	1
EC234	Heater Assembly	330196	■ 479749	1
EC234FE	Heater Assembly, Fume Extraction	333172	■ 331726	1
HO60A	Handle ESD	332930	■ 329303	1
HO60AFE	Handle ESD, Fume Extraction	333190	■ 331900	1

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"
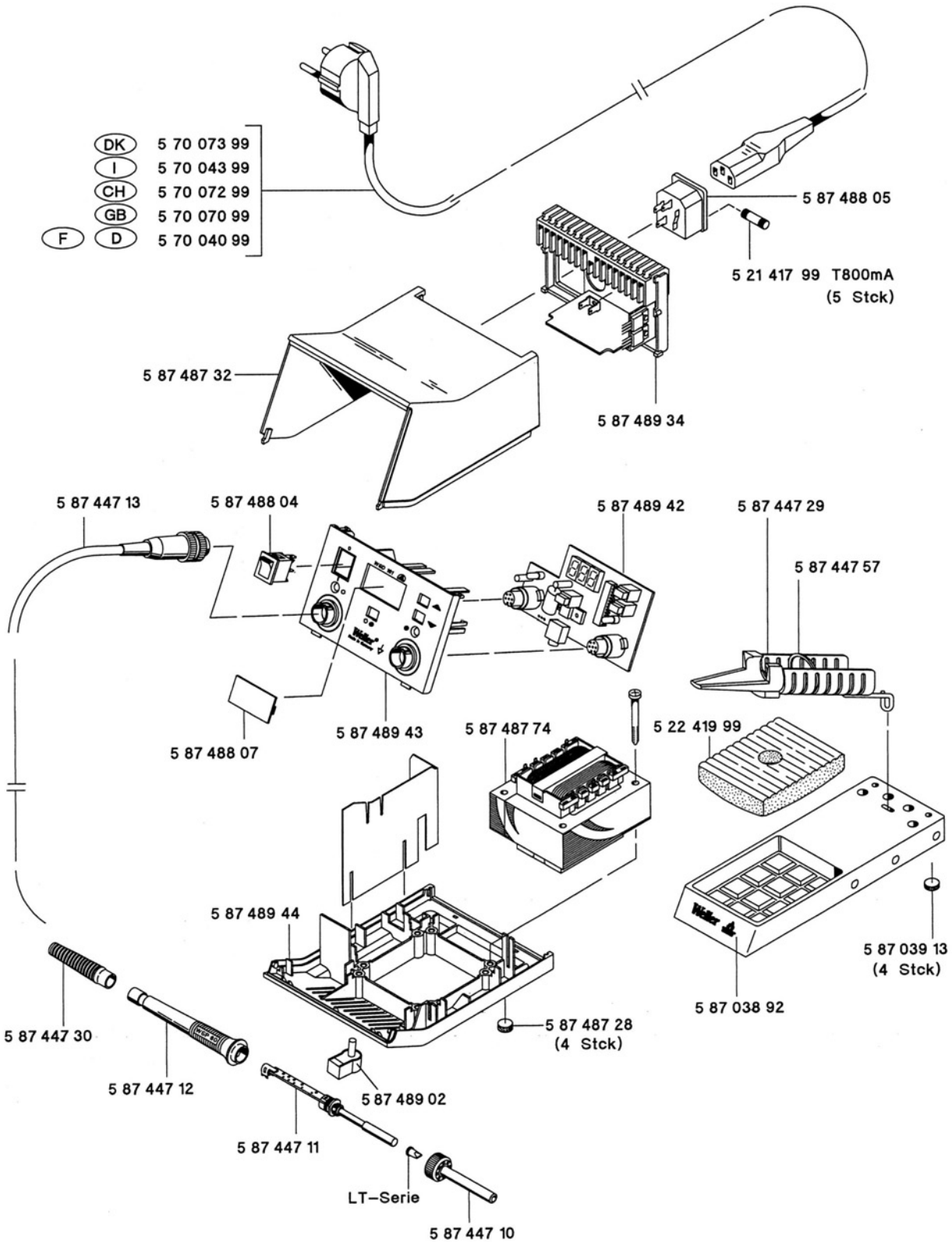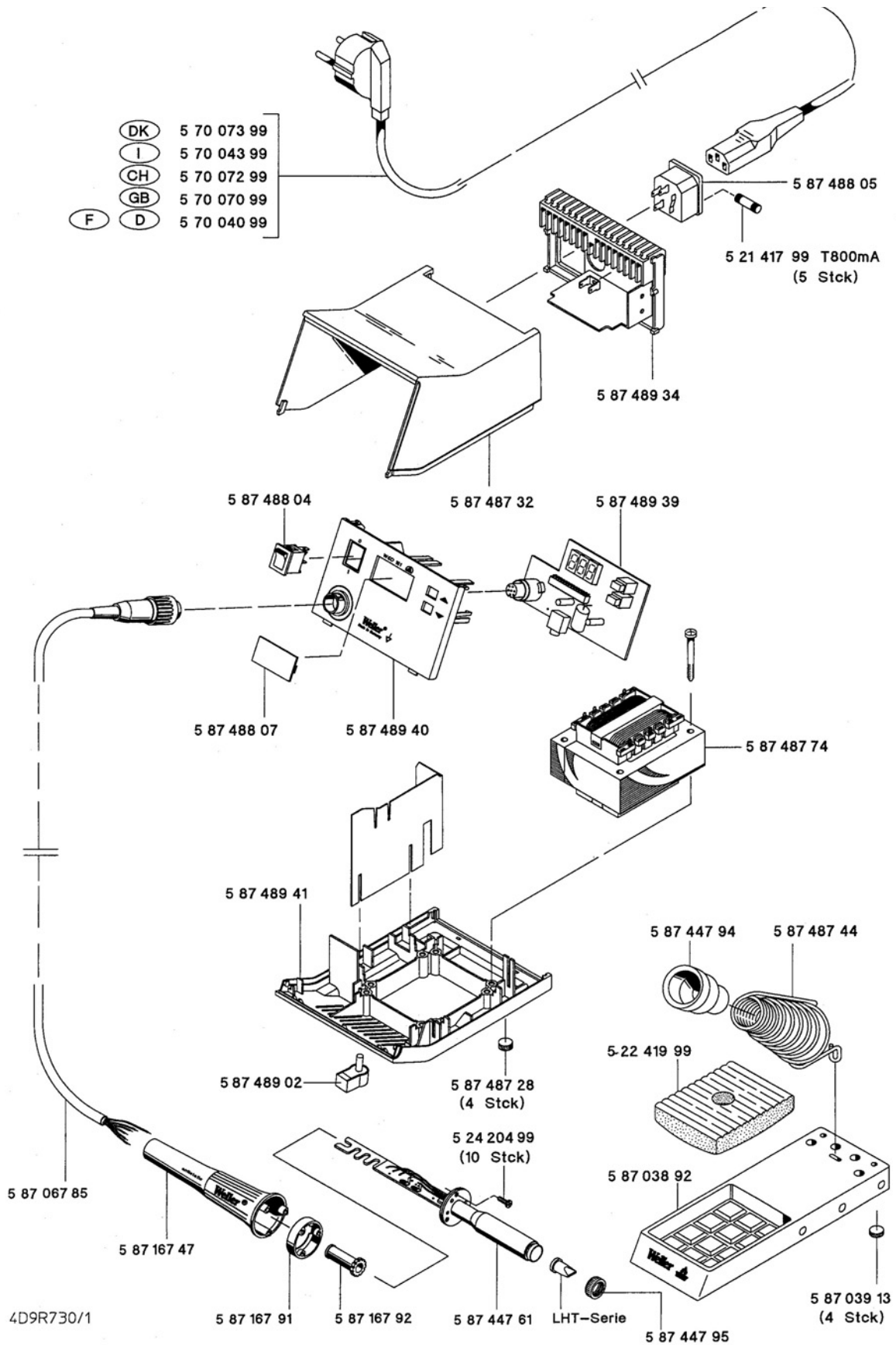
COOPER Hand Tools

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SPARE PARTS   **EC1301 & EC1302A SOLDERING IRON**
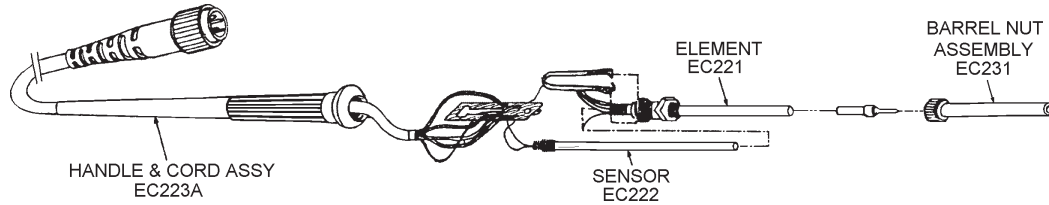
Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
EC213	Plug, Receptacle Kit	**333345**	■ 477981	1
EC221	Heater Assembly	**333342**	■ 479466	1
EC222	Sensor Assembly	**333343**	■ 479442	1
EC223A	Handle Cord Assembly	**333320**	■ 333201	1
EC231	Barrel Nut Assembly	**333341**	● 479686	1

SPARE PARTS   **EC1302B (Plug in Style)**
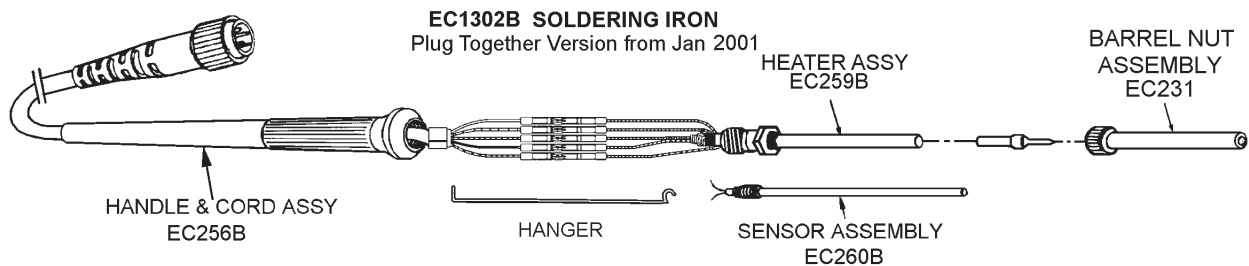
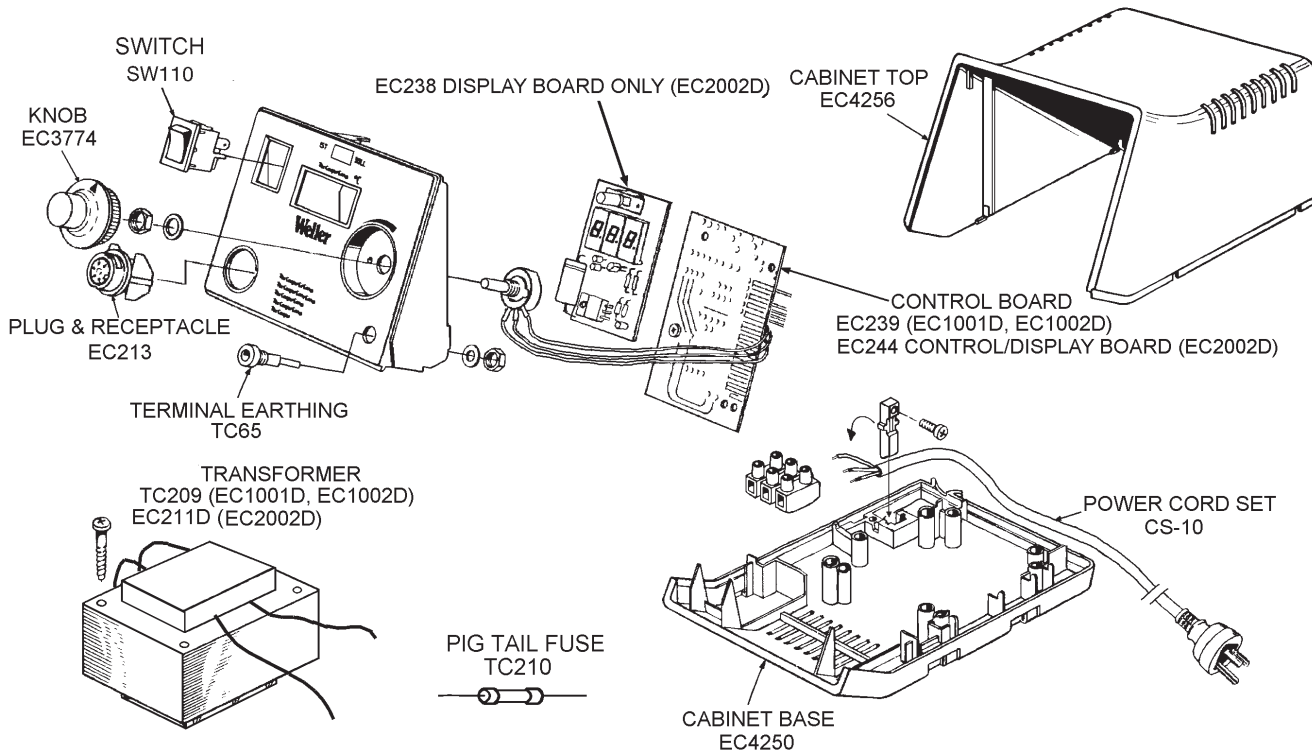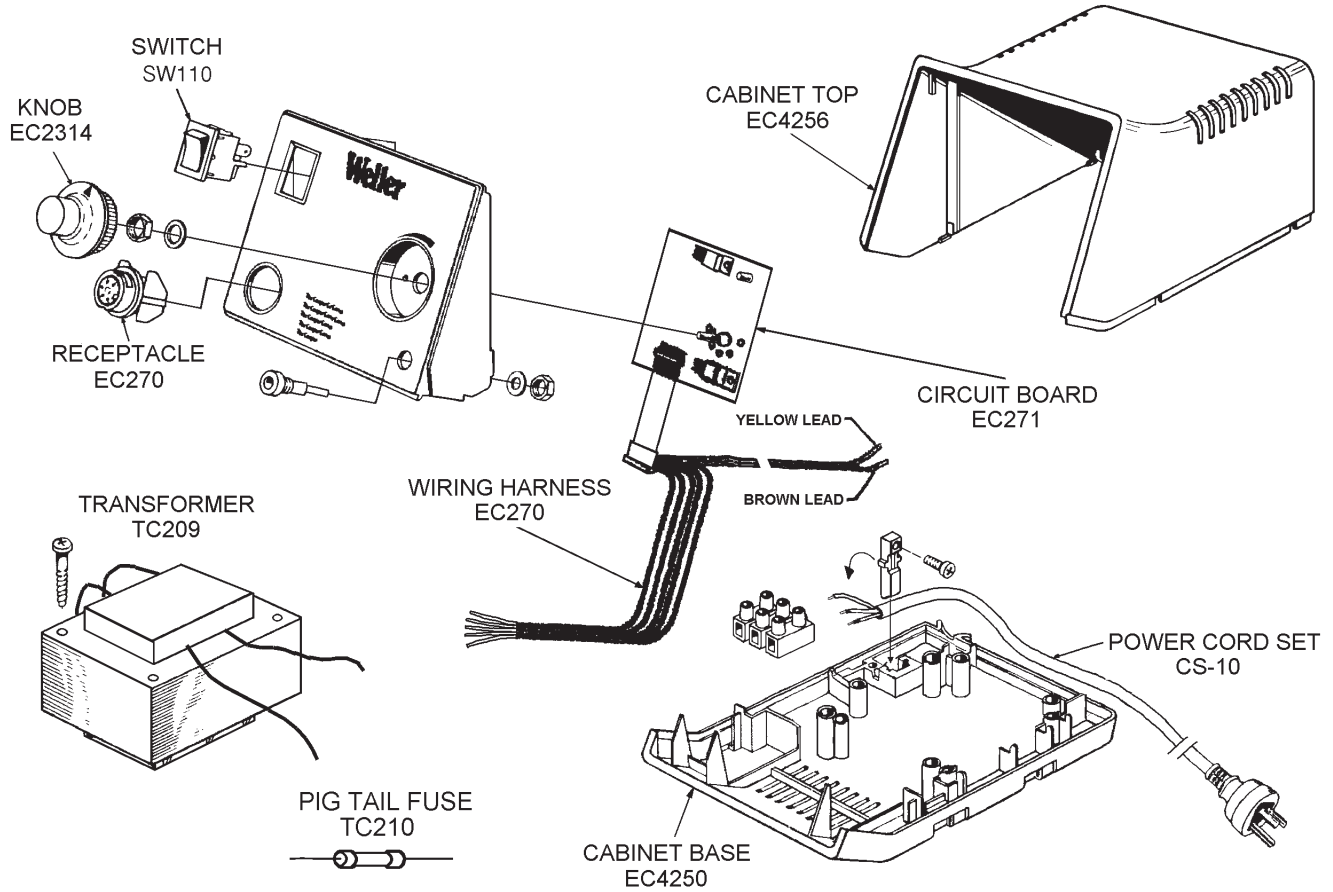| Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
EC213	Plug, Receptacle Kit	**333345**	■ 333454	1
EC259B	Heater Assembly	**335019**	■ 350192	1
EC260B	Sensor Assembly	**335020**	■ 350208	1
EC265B	Handle and Cord Assembly	**335021**	■ 350215	1
EC231	Barrel Nut Assembly	**333341**	● 479686	1

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools

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SPARE PARTS   **MT1500D**
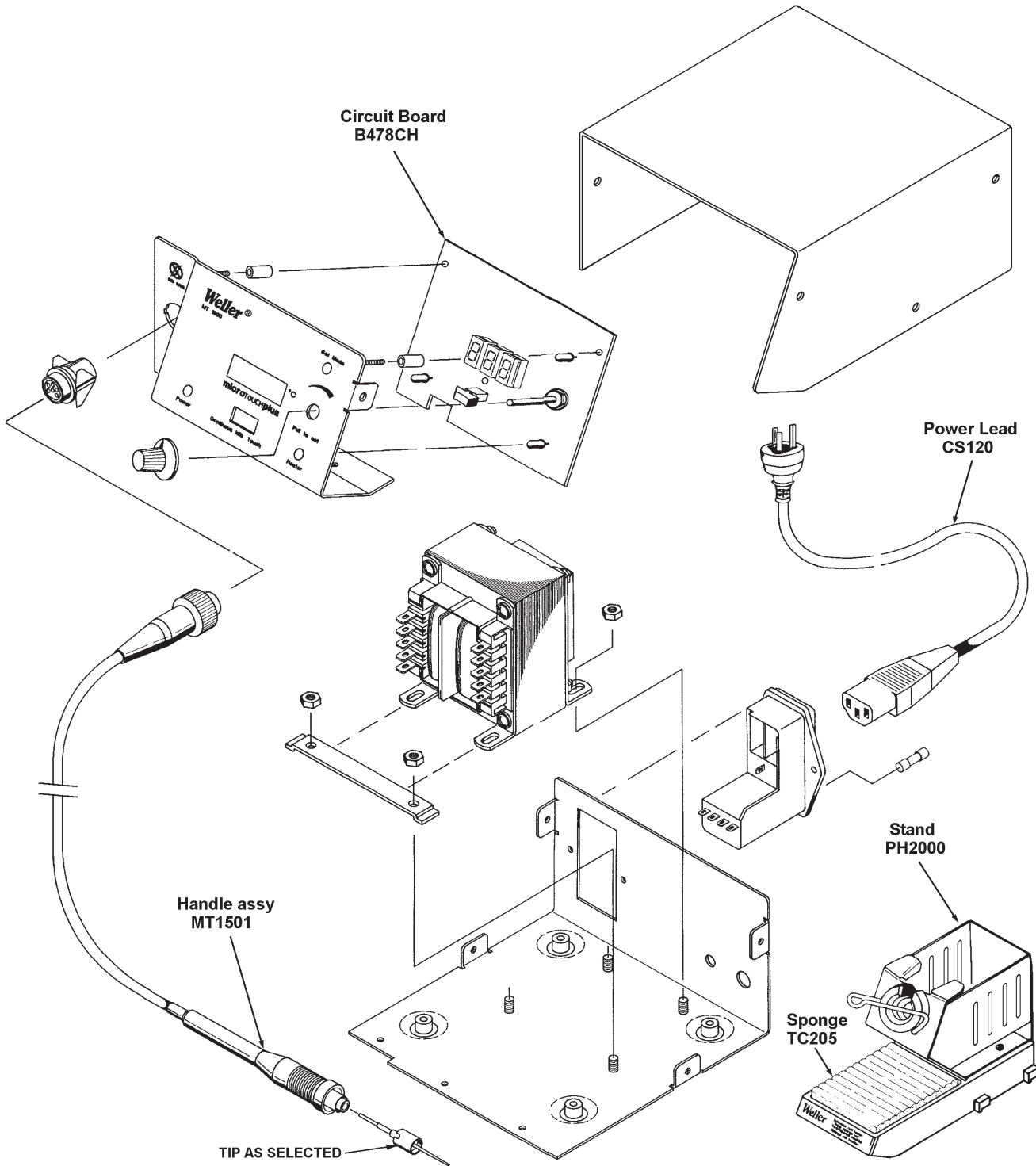
Circuit Board
B478CH

Power Lead
CS120

Stand
PH2000

Handle assy
MT1501

Sponge
TC205

TIP AS SELECTED

e - denotes USA/Germany stock requiring freight lead times.

Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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SPARE PARTS   W-SERIES IRONS

W60 IRON
SWITCH TEMPERATURE SW60D
HEW60D / HEW60DFE
TIP NUT KN60A
POWER CORD SET CS-4CS
HANDLE HO60A / HO60AFE

W100 IRON
SWITCH TEMPERATURE SW100D
HEATING ELEMENT HEW100D
TIP NUT KN100A

W201 IRON
SWITCH TEMPERATURE SW200D
POWER CORD SET CS-4CS
HEATING ELEMENT HEW201D
51052099
58716715
51066099
TIP NUT KN200A

Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
CS4CS	Power Cord Set	332953	● 479389	1
HEW60D	Heating Element	332955	■ 473983	1
HEW60DFE	Heating Element, Fume Extraction	333188	■ 331887	1
HEW100D	Heating Element	332960	■ 474195	1
HEW201D	Heating Element	333047	■ 330477	1
SW60D	Switch, Temperature	330183	■ 470072	1
SW100D	Switch, Temperature	330184	■ 474232	1
SW200D	Switch, Temperture	333048	■ 330484	1
KN60A	Tip Nut	332969	● 473998	1
KN100A	Tip Nut	332970	● 474186	1
KN200A	Tip Nut	335277	4003019011841	1
HO60A	Handle	332930	■ 329303	1
HO60AFE	Handle, Fume Extraction	333190	■ 331900	1

ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.
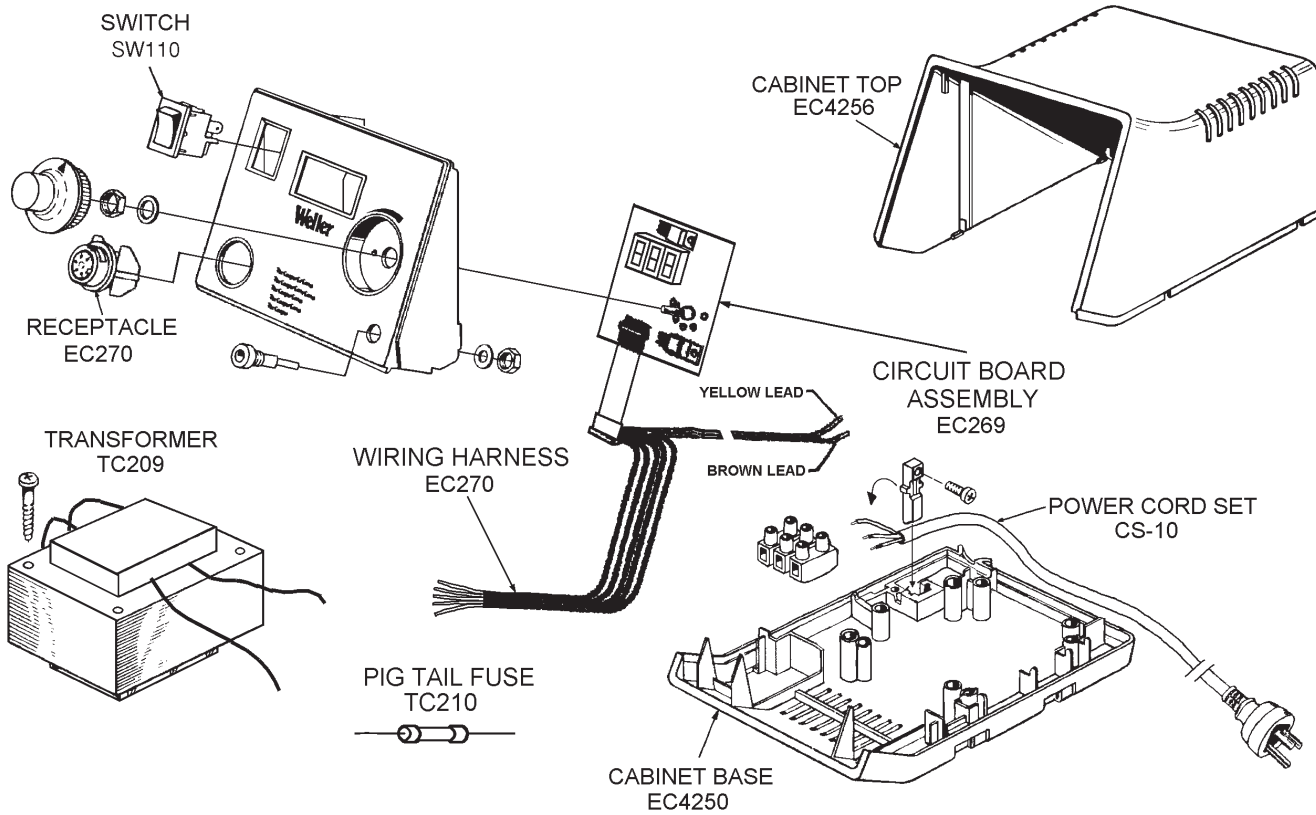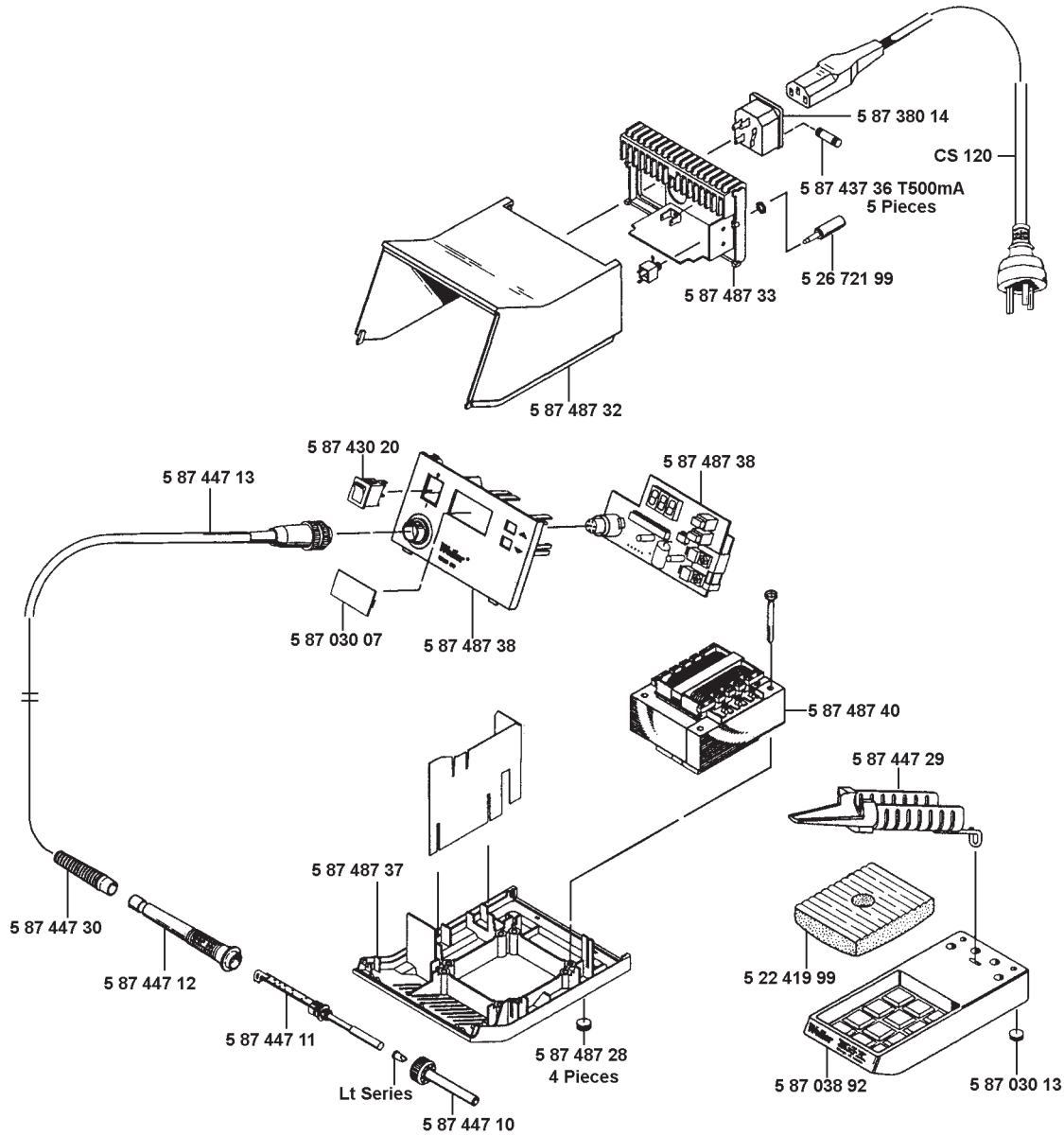
SPARE PARTS   **DS650**
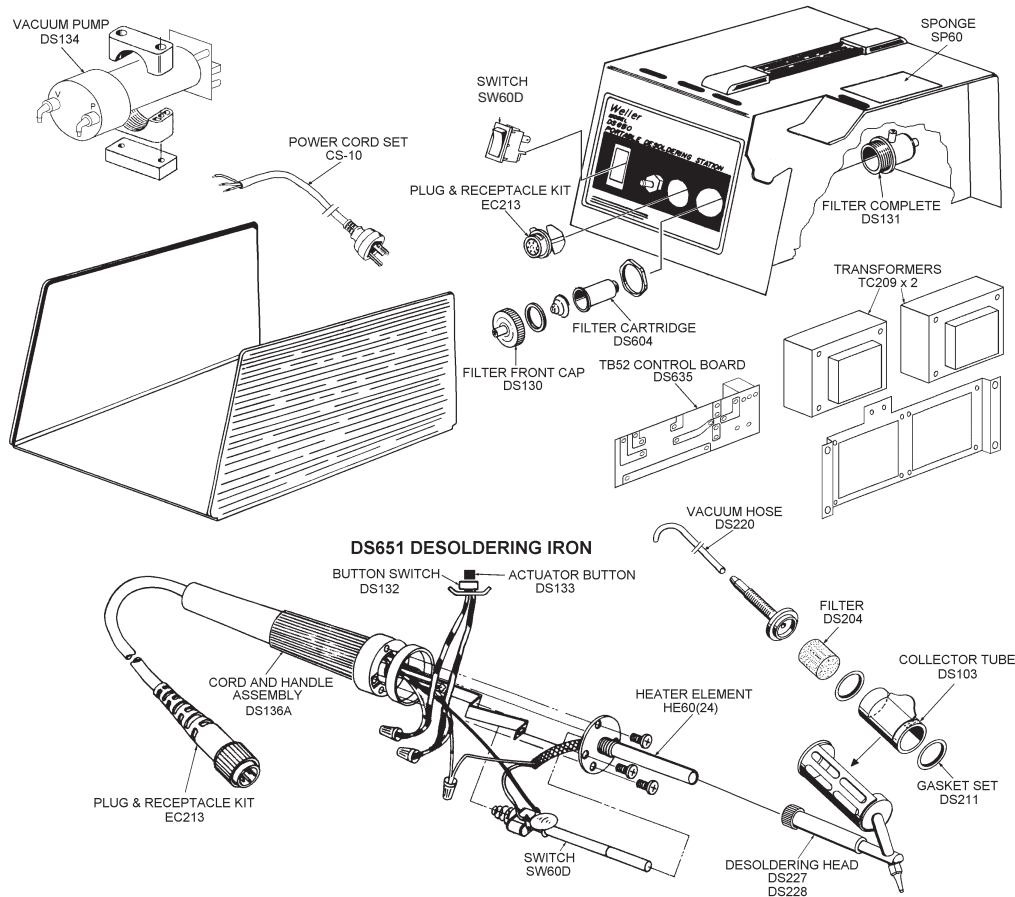
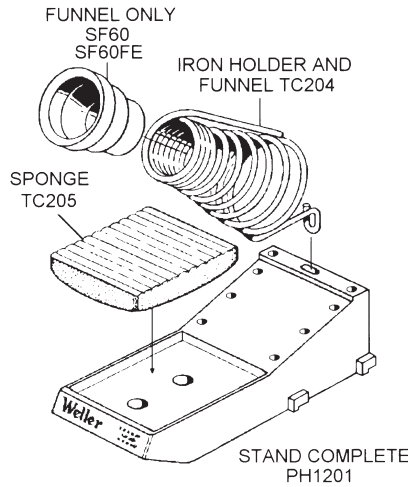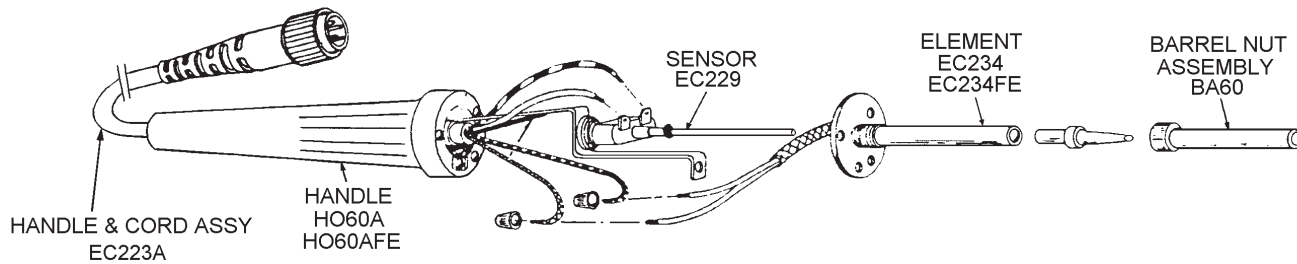| Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
CS-10	Power Cord Set	**332954**	■ 329549	1
DS103	Collector Tube complete with Gasket and Filter	**333215**	■ 474322	1
DS104	Clean out Tool	**333220**	■ 474331	1
DS130	Filter Front Cap with Inlet	**335243**	■ 332289	1
DS131	Filter Assembly Complete	**333267**	■ 332679	1
DS132	Button Switch	**333318**	■ 333188	1
DS133	Actuator Button	**333316**	■ 333164	1
DS134	Vacuum Pump		■ 333942	1
DS136A	Cord and Handle Assembly	**333322**	■ 333225	1
DS211	Gasket Set	**333292**	■ 332921	1
DS220	Vacuum Hose	**333296**	■ 480019	1
DS227	Desoldering Head 370ºC	**333273**	■ 332730	1
DS228	Desoldering Head 430ºC (Fitted as standard)	**333294**	■ 332945	1
DS604	Filter Cartridge	**333429**	■ 475077	1
DS635	TB52 Control Board	**333195**	■ 331955	1
DS651	Desoldering Iron	**333312**	■ 333126	1
EC213	Plug, Receptacle Kit	**333345**	■ 477981	1
HE60(24)	Heater Assembly	**332923**	■ 472214	1
SW60D	Switch	**330183**	■ 474072	1
SP60	Sponge	**332917**	■ 474063	10
TC209	Transformer Only	**330122**	■ 478878	1

e - denotes USA/Germany stock requiring freight lead times.   58

Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"   **COOPER** Hand Tools

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SPARE PARTS   DS1000/DS1002-ID/DS1003-ID
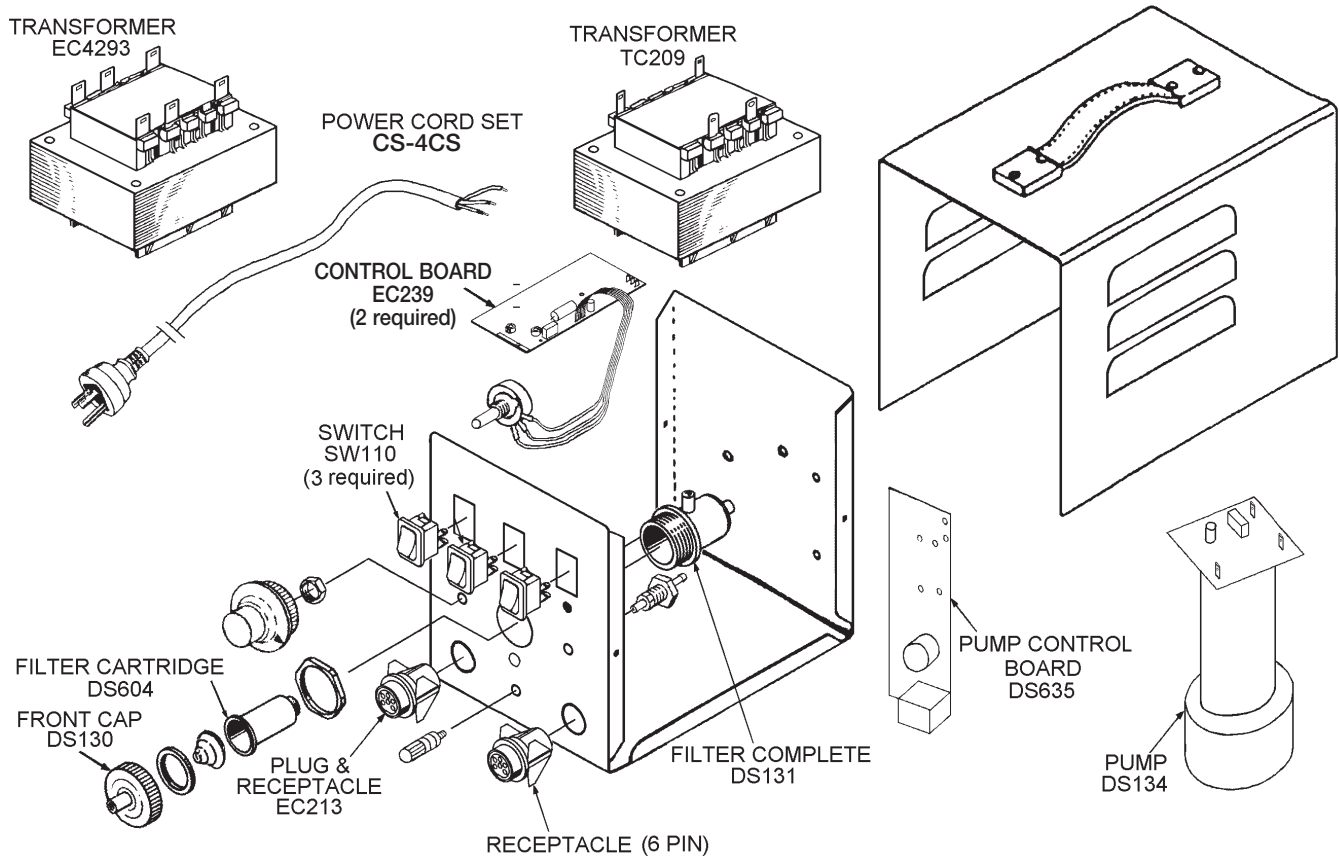
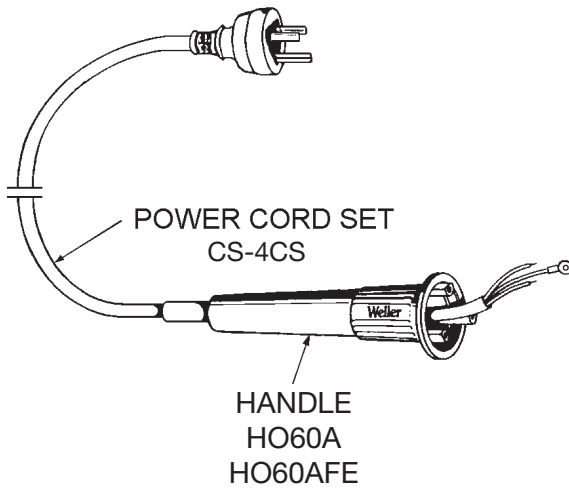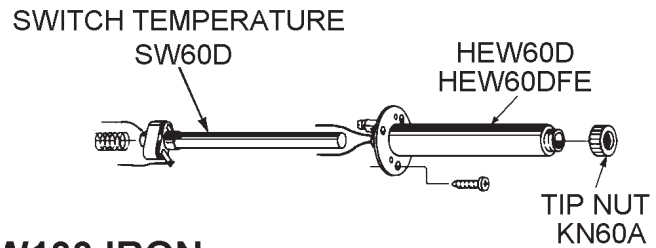| Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
CS4CS	Power Cord Set	**332953**	● 479389	1
DS104	Clean out Tool	**333220**	■ 474331	1
DS130	Filter Front Cap	**335243**	■ 352431	1
DS131	FIlter Complete	**333267**	■ 332679	1
DS133	Actuator Button	**333316**	■ 333164	1
DS134	Vacuum Pump		■ 333942	1
DS604	FIlter Cartridge	**333429**	■ 475077	1
DS635	Pump Control Board	**333195**	■ 331955	1
EC213	Plug, Receptacle Kit	**333345**	■ 477981	1
EC239	Control Board Complete	**330200**	■ 480790	1
SW110	Switch	**333283**	■ 332839	1
TC209	Transformer Only	**330122**	■ 476878	1

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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SPARE PARTS   DS1201/DS1201A DESOLDERING IRON

Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
DS103	Collector Tube complete with Gasket and Filter	**333215**	■ 474322	1
DS104	Clean out Tool	**333220**	■ 474331	1
DS133	Actuator Button	**333316**	■ 333164	1
DS211	Gasket Set	**333292**	■ 332921	1
DS220	Vacuum Hose	**333296**	■ 480019	1
DS229	Desoldering Head	**333299**	■ 332990	1
DS1330	Insulator & Switch Assembly	**333180**	■ 331801	1
DS3552	Handle (with hole)	**333183**	■ 331832	1
EC229	Sensor Assembly	**333359**	■ 478114	1
EC234A	Heater Assembly (DS1201A)	**330194**	■ 301941	1

SPARE PARTS   DS1203A DESOLDERING IRON

Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
DS103	Collector Tube Complete with Gasket and Filter	**333215**	● 474322	1
DS104	Clean out Tool	**333220**	■ 474331	1
DS133	Actuator Button	**333316**	■ 333164	1
DS211	Gasket Set	**333292**	■ 332921	1
DS220	Vacuum Hose	**333296**	● 480019	1
DS229	Desoldering Head	**333299**	■ 332990	1
DS1330	Insulator & Switch Assembly	**333180**	■ 331801	1
DS3449	Cord Assembly (DS1203A)		■ 331818	1
DS3552	Handle (with hole)		■ 331832	1
DSH54	Heater Assembly 54 watt (DS1203A)	**333184**	● 593191	1
EC229	Sensor Assembly	**333359**	■ 478114	1

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

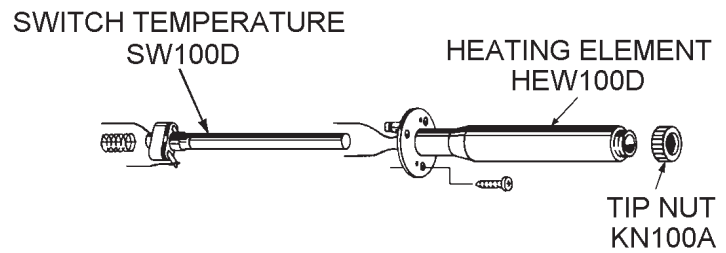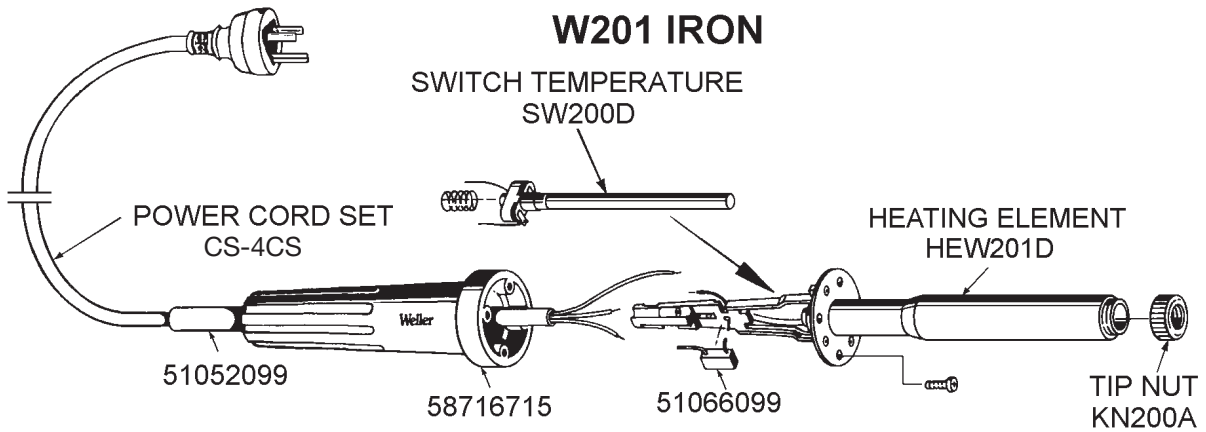## SPARE PARTS   AG75, AG702S, WHA300, WHA2000 and WMD-3

Catalogue No.	Description		Product Code	APN/UPC	Shelf Pack
CS120	Power Cord Set				1
5 36 043 99	Dispenser Kit	e	333498	■ 334987	1
5 36 045 99	Vacuum Tweezer	e		■ 334963	1
5 36 060 99	Foot Switch	e		■ 335069	1
5 87 010 25	Triac	e	333442	■ 475473	1
5 87 117 19	Filter Cap with Inlet (replace with DS130)		335243	■ 332389	1
5 87 110 45	Filter Complete (replace with DS131)		333267	■ 332679	1
5 87 117 00	Filter Cartridge (replace with DS604)		333429	■ 475077	1
5 87 170 13	Switch (replace with SW110)		333283	■ 332839	1
5 87 270 42	Vacuum Union	e		■ 334437	1
5 87 277 17	Control Board	e	333441	● 592835	1
5 87 367 96	Control Board WHA2000	e	333644	■ 336448	1
5 33 126 99	Hot Air Pencil & 700w (WHA2000)	e	333645	■ 336455	1

5 87 227 46

5 87 417 82

5 13 631 99 (5 Stck)

5 15 038 99

5 87 417 57   5 87 417 58   5 87 417 50

5 87 417 49

5 87 417 54

5 87 417 80

5 87 417 51 (10 Stck)

5 87 417 83

5 13 500 99

5 87 417 81

5 87 417 55

5 13 030 99

5 87 417 79 DSV 80
5 87 417 87 DSV 80 UNC

5 87 417 52

4D2R605/2

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS   **WMD1S**
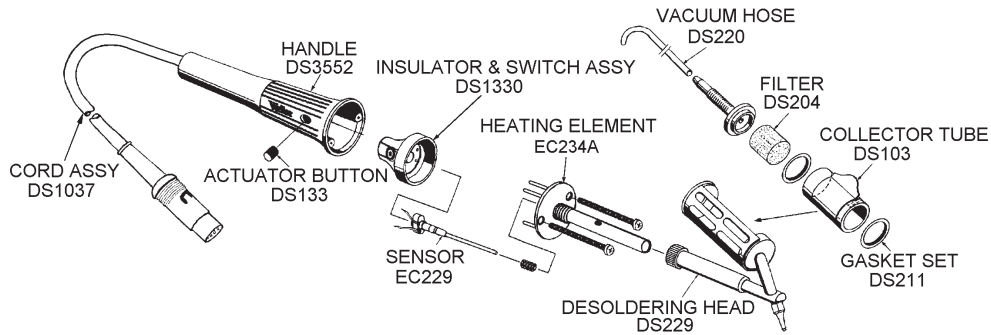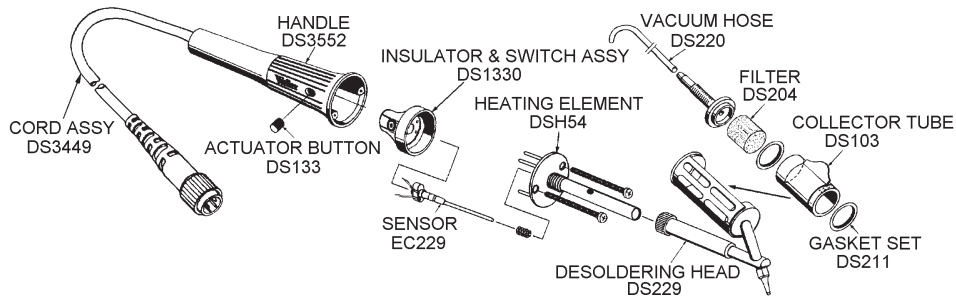
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SPARE PARTS   **WMA3V**

5 87 270 84   5 87 397 63   5 87 270 42   5 87 387 99

5 87 110 45

5 13 435 99

5 70 040 00

5 87 030 23

5 87 397 62

5 87 390 06   5 87 390 45

5 87 380 78

5 87 038 93

5 87 380 77

5 13 318 00   5 87 170 13

5 13 435 99   5 87 380 33   5 87 397 58

5 87 117 00

5 87 110 19

5 13 444 00

5 87 110 47

5 87 387 47   5 87 397 61

5 87 397 56

5 87 390 46

5 33 128 99

5 87 397 33

5 27 115 99

2 23 139 50

5 87 390 48
5 87 380 67

5 36 043 99

5 36 153 99 ø0,84
5 36 154 99 ø0,58
5 36 155 99 ø0,41

5 36 270 99 ø3,0
5 36 270 59 ø1,2

5 15 052 99

5 87 380 14

5 15 027 99

5 13 809 00

5 13 120 99

5 87 397 40

4D-1R467/1

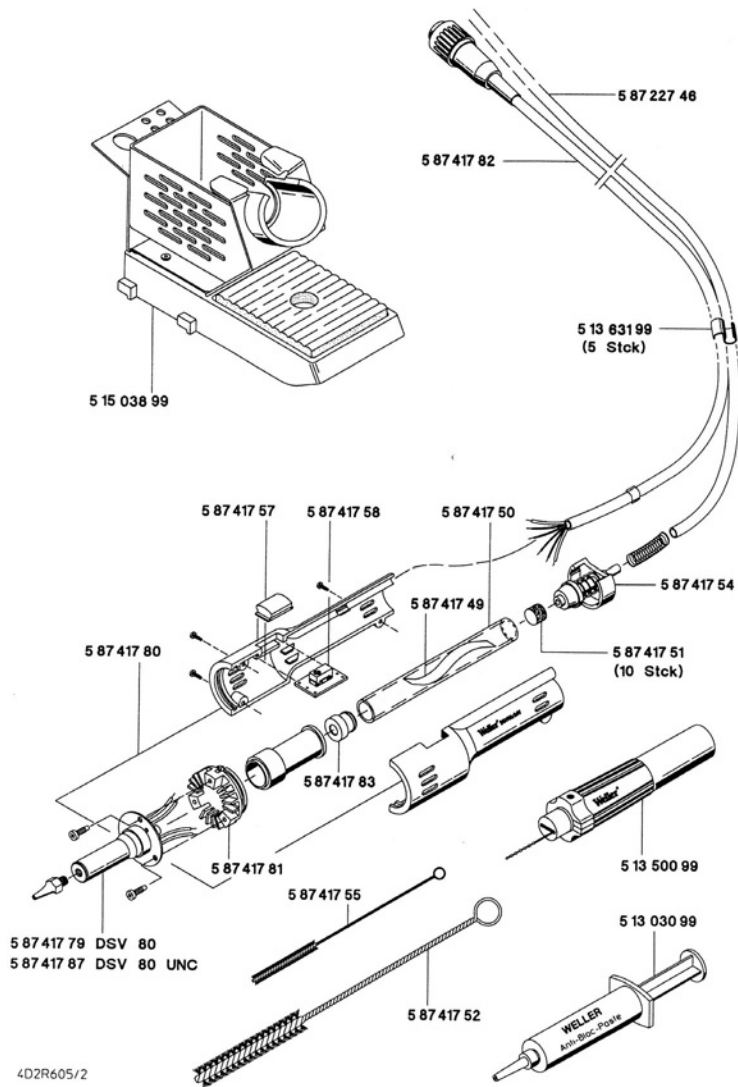**e** - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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SPARE PARTS   **WMD-3**

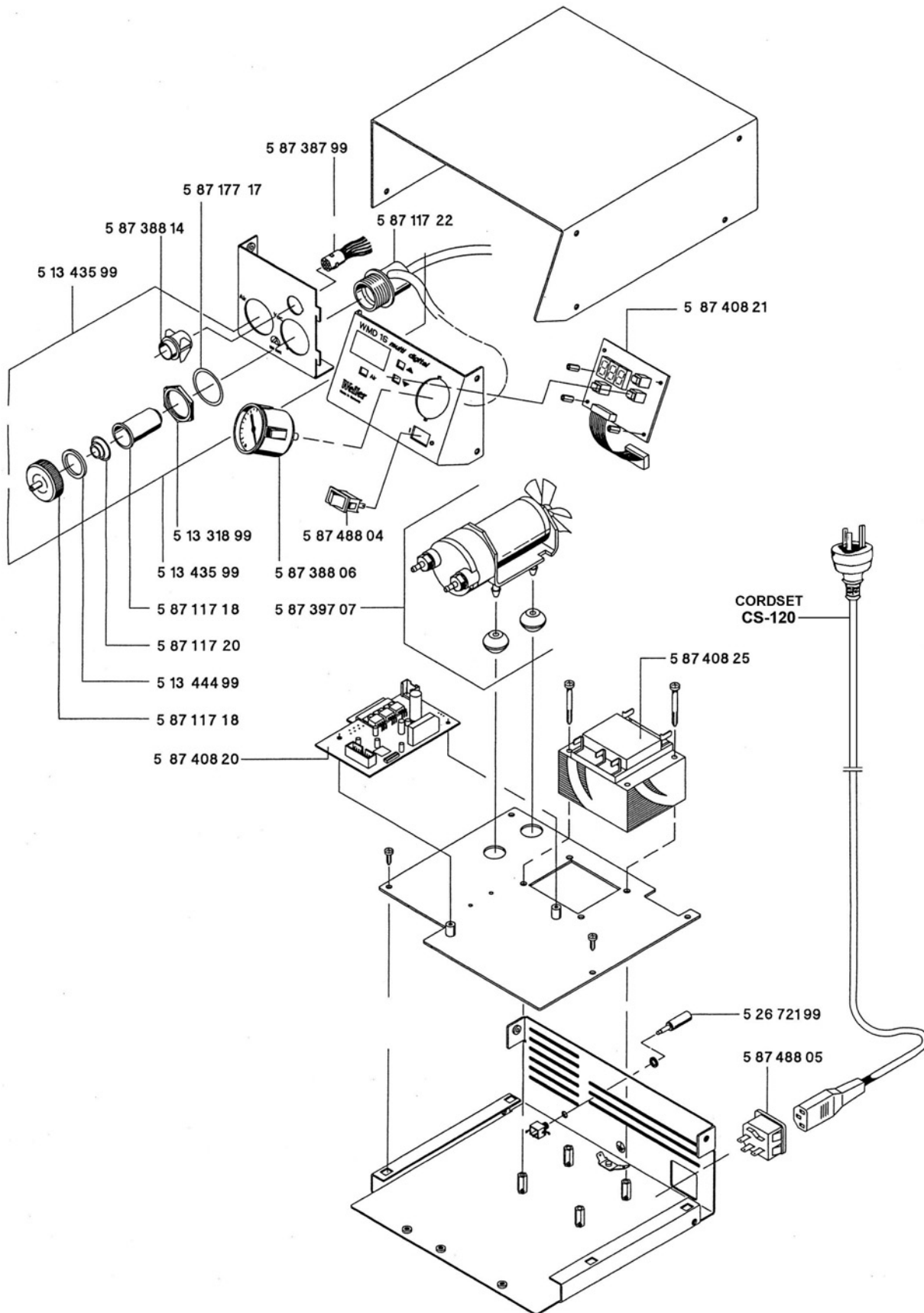
Catalogue No.	Description	Product Code	APN/UPC	Shelf Pack
5 87 380 33	Vac-Meter	**e** **333650**	■ 336509	1
5 87 397 07	Pump (WMD-3)	**e** **333651**	■ 336516	1
5 87 400 17	Key Switch incl Key	**e** **333652**	■ 336523	1
5 87 400 25	Transformer (WMD-3)	**e** **333653**	■ 336530	1
5 87 407 25	Solenoid (WMD-3)	**e** **333654**	■ 336547	1
5 87 407 45	PCG Display w/LED	**e** **333655**	■ 336554	1
5 87 407 46	Key for Key Switch	**e** **333656**	■ 336561	1
5 87 407 65	Mainboard PCB (WMD-3)	**e** **333657**	■ 336578	1
CS120	Power Cord Set			
DS131	Filter Complete	**333267**	■ 332679	1
DS604	Filter Cartridge	**333429**	● 475077	1
SW110	Switch	**e** **333283**	■ 332839	1

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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SPARE PARTS   **WHA300**
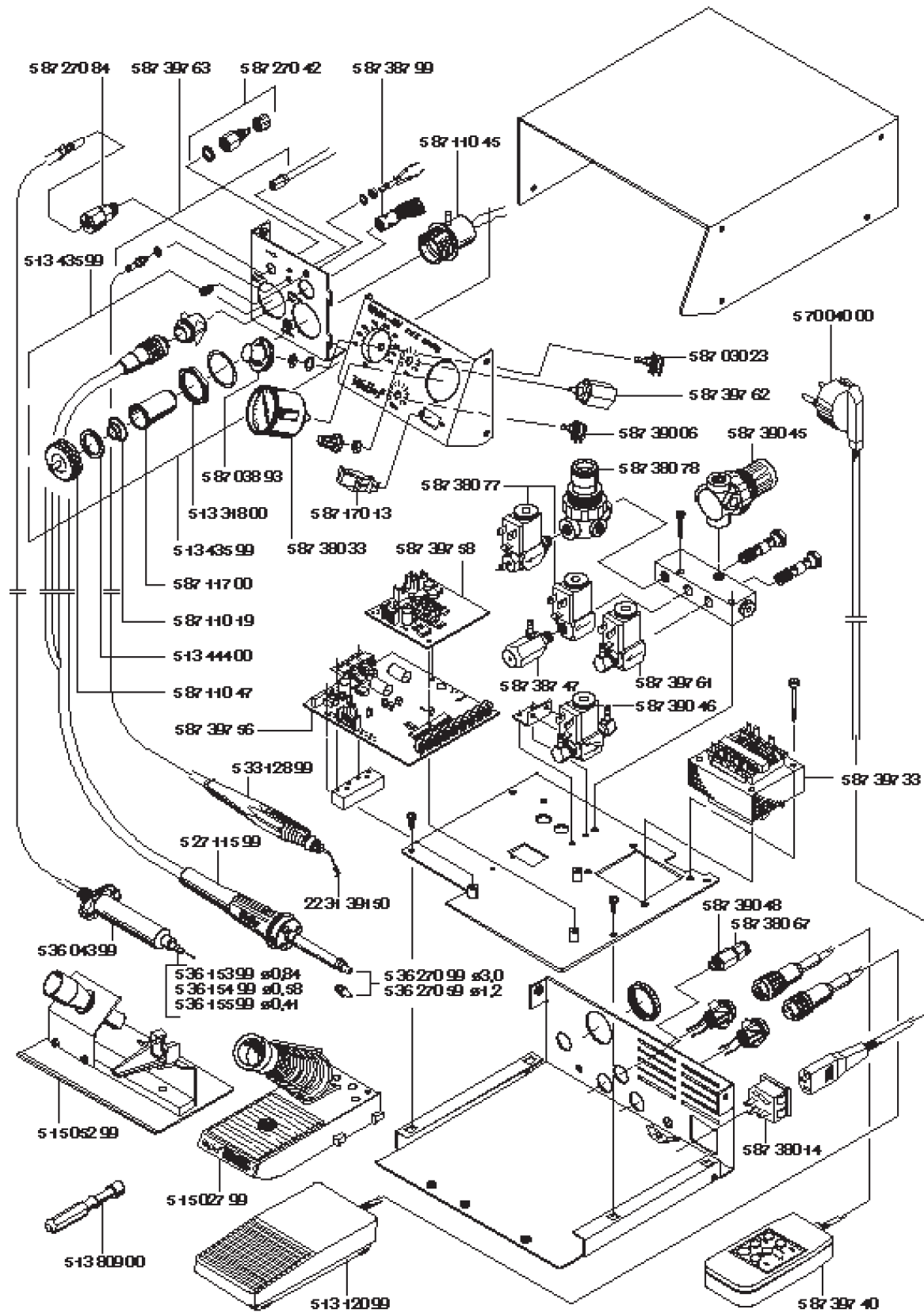
5 87 337 61

5 87 467 32

5 87 467 33

5 87 467 31

e - denotes USA/Germany stock requiring freight lead times.
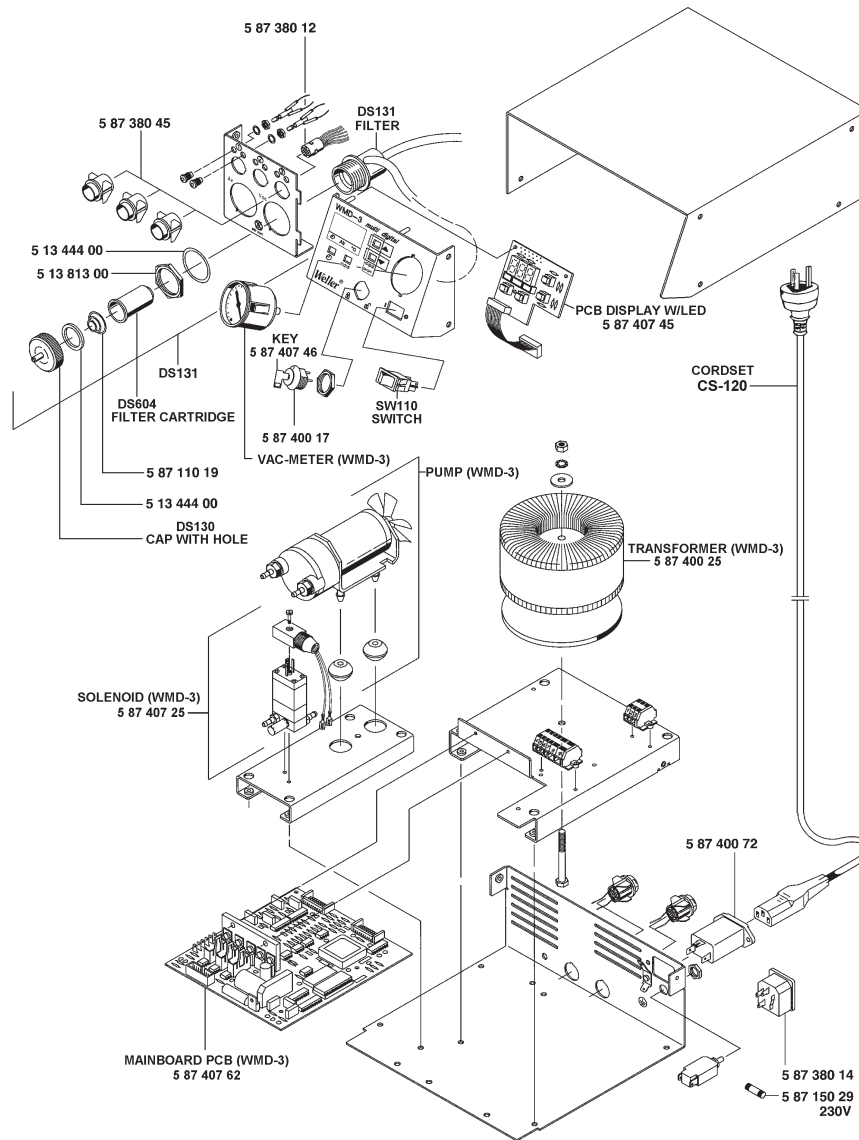Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS   **WHA 2000**

5 87 367 86

CS-120

5 87 030 38

5 87 380 14

5 87 367 95

5 87 361 58 T6,3A

5 87 170 13

5 87 367 80

5 87 367 94

5 87 117 00

5 13 436 99

5 87 361 51

5 87 367 96

5 36 060 99

5 33 126 99

5 15 045 99

e - denotes USA/Germany stock requiring freight lead times.
Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

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ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS   **PYROPEN   WPA2**
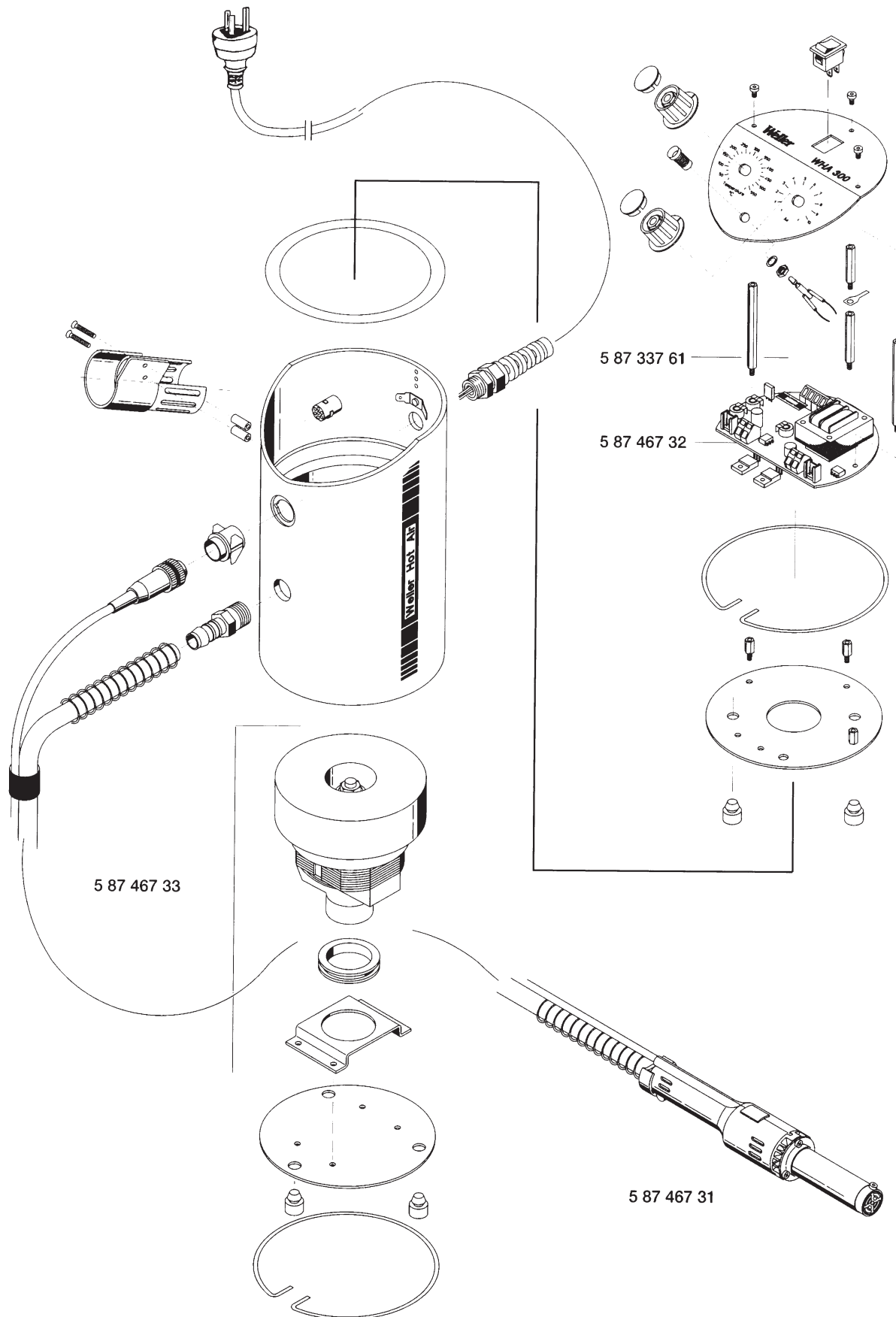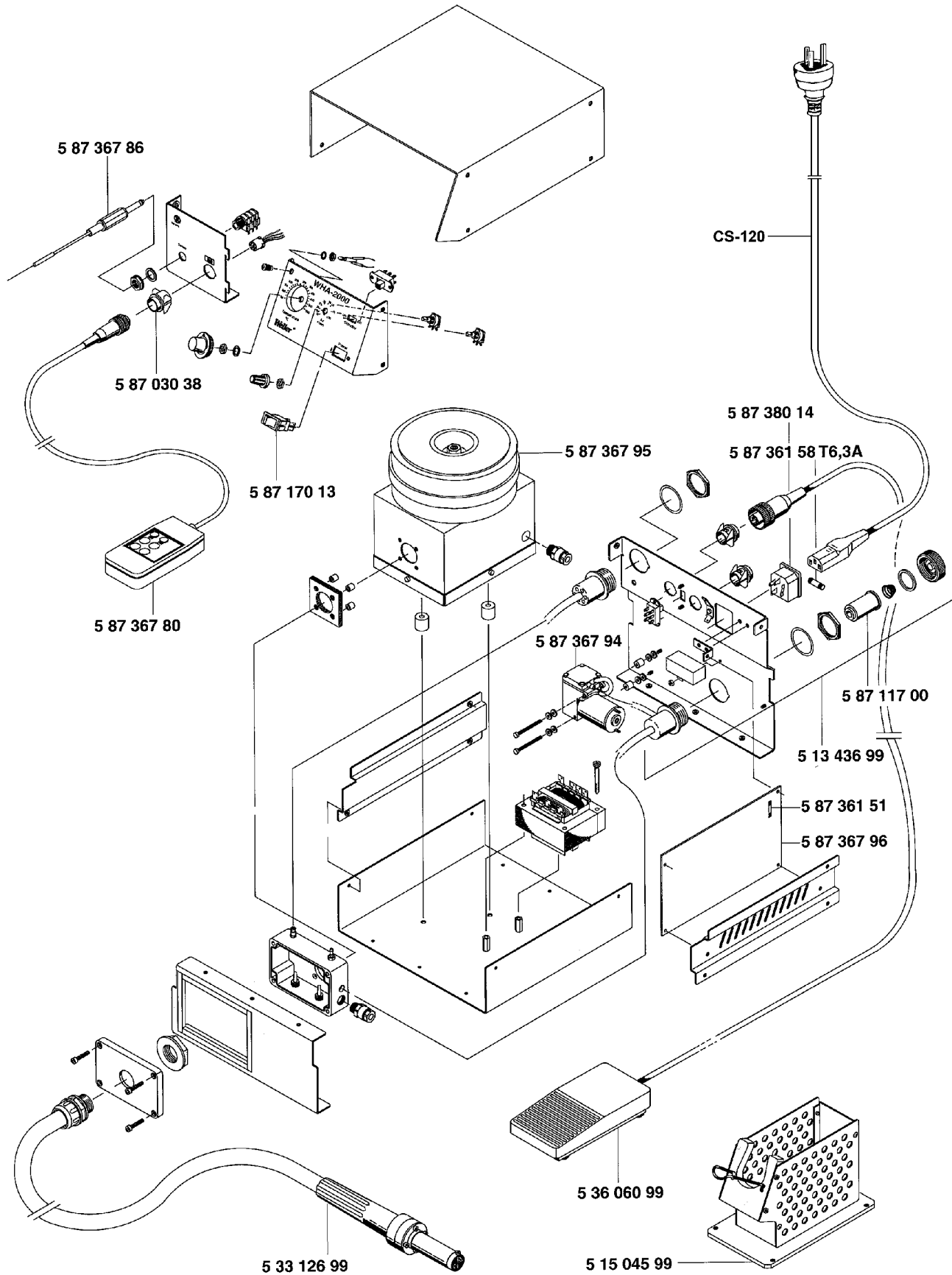

337215

337223

337224

337225

337201

337129

337202

337204

337209

337212   337214
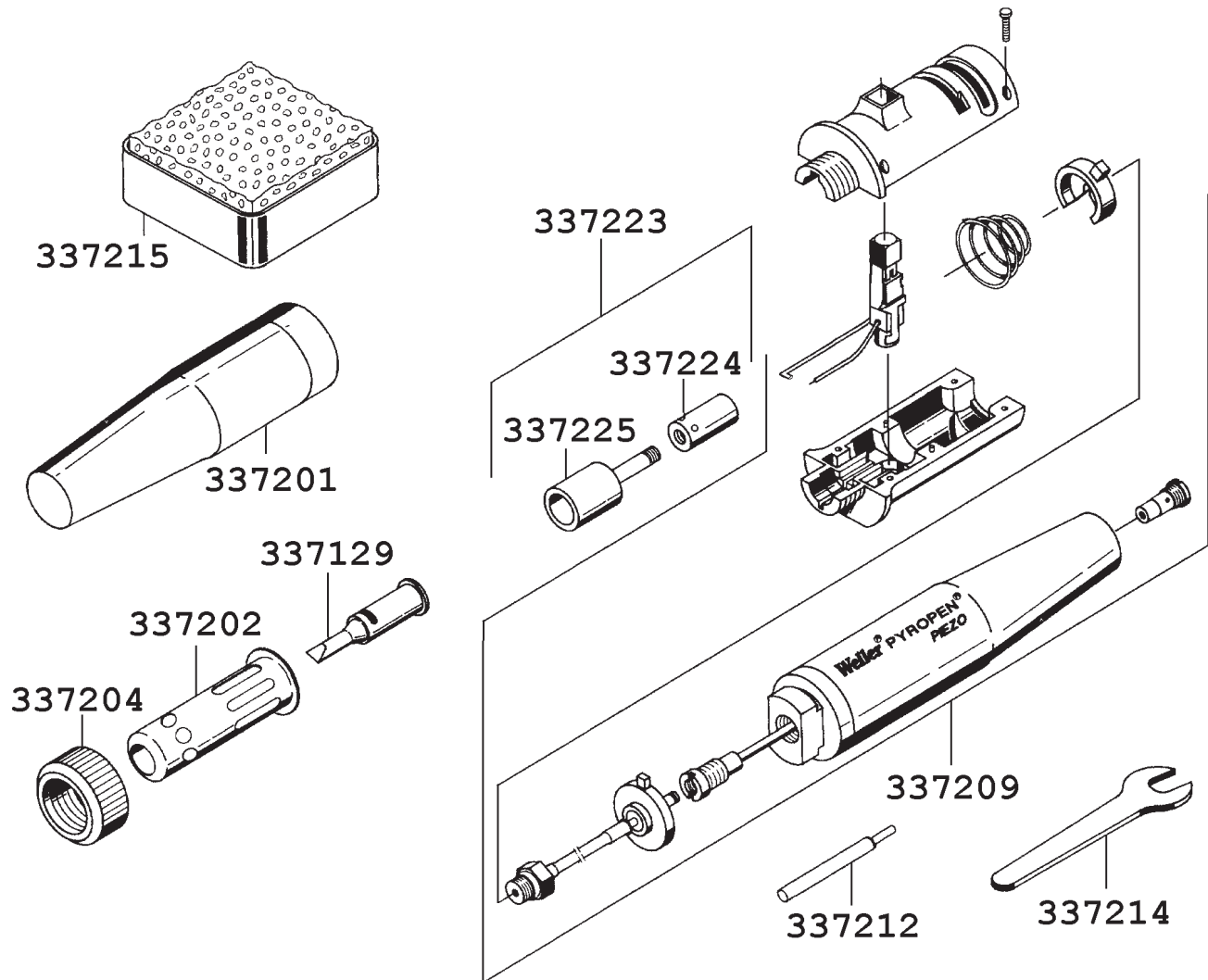
Catalogue No.	Description		Product Code	APN/UPC	Shelf Pack
70-37	Sponge		**337215**	■ 372156	1
WPA-PC	Cap		**337201**	● 590442	1
WPT-2	Chisel Tip		**337129**	■ 472429	1
80-03	Tip Housing		**337202**	■ 372026	1
80-14/90-14	Knurled Cap Nut		**337204**	● 590480	1
90-07U	Ejector Unit		**337223**	■ 372231	1
90-04U	Burner Unit		**337225**	■ 372255	1
90-07	Ejector		**337224**	■ 372248	1
90-01U	Handle	**e**	**337209**	■ 372095	1
80-35	Ejector Spanner	**e**	**337212**	■ 372125	1
80-40	Spanner	**e**	**337214**	■ 372149	1

NOTE: For items other than those listed here the faulty unit must be returned to an Authorised Service Centre.

e - denotes USA/Germany stock requiring freight lead times.

Product depictions are not to scale. "Broken shelf packs attract a 5% Surcharge"

COOPER Hand Tools
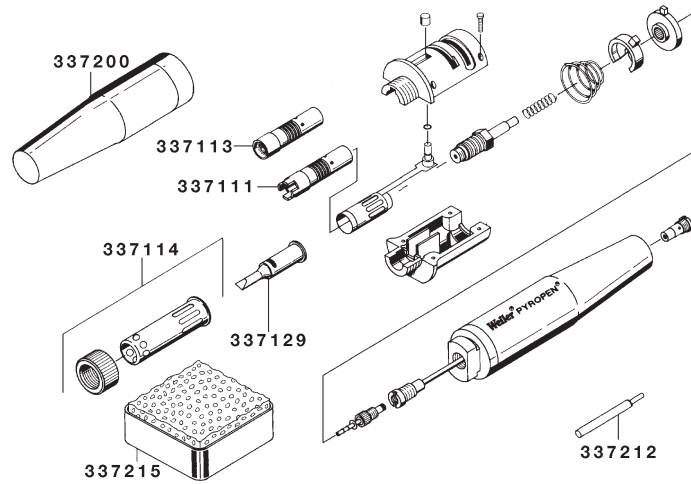
ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.

SPARE PARTS   **PYROPEN   WSTA3**

Catalogue No.	Description		Product Code	APN/UPC	Shelf Pack
70-02	Cap	**e**	**337200**	■ 372002	1
WP71T	Torch Ejector		**337113**	■ 472306	1
WP70S	Solder Ejector		**337111**	■ 472298	1
WP72M	Tip Housing		**337114**	■ 479299	1
WPT-2	Chisel Tip		**337129**	■ 472429	1
70-37	Sponge		**337215**	■ 372156	1
80-35	Ejector Spanner	**e**	**337212**	■ 372125	1

NOTE: For items other than those listed here the faulty unit must be returned to an Authorised Service Centre.

SPARE PARTS   **PYROPEN   WST2**

Catalogue No.	Description		Product Code	APN/UPC	Shelf Pack
WPT-15	Solder Tip		**337172**	■ 477523	1
WP71-14	Knurled Cap Nut	**e**	**337188**	● 477941	1
WP71-07	Ejector		**337186**	● 477934	1
WP71-01	Handle		**337181**	■ 371814	1
WP71-02	Cap	**e**	**337182**	■ 477910	1

NOTE: For items other than those listed here the faulty unit must be returned to an Authorised Service Centre.

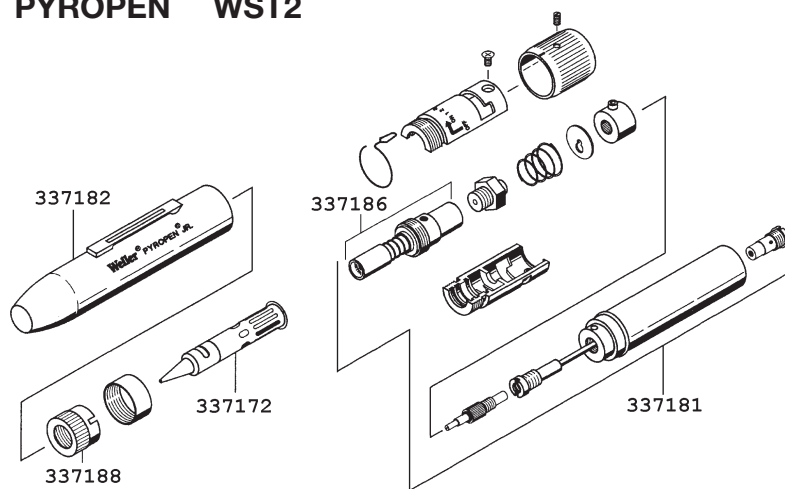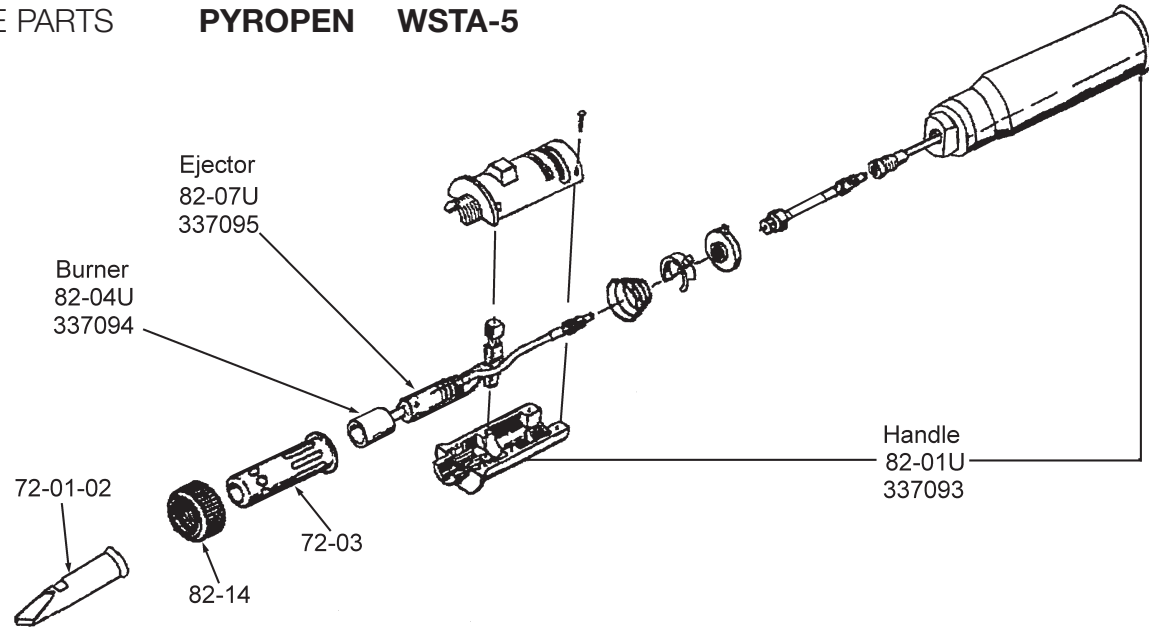**ALL APN ■ AND UPC ● CODE NUMBERS SHOWN ARE PRECEDED BY THE MANUFACTURER APN OR UPC I.D. NUMBER ■ 9337103 & ● 037103.**
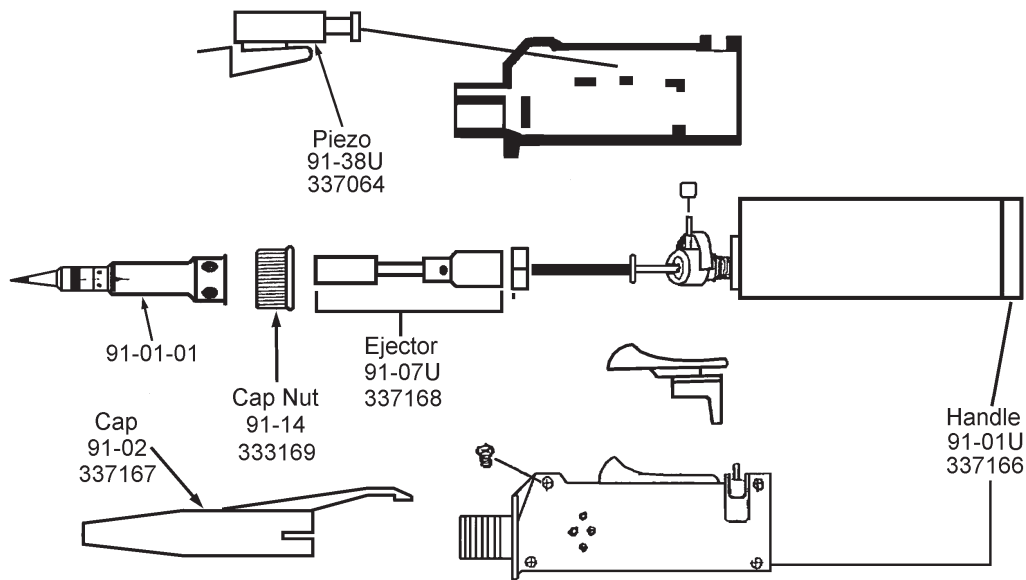
SPARE PARTS   **PYROPEN   WSTA-5**

Catalogue No.	Description		Product Code	APN/UPC	Shelf Pack
82-07U	Ejector		**337095**	■ 370954	1
82-04U	Burner	**e**	**337094**	■ 370947	1
82-01U	Handle	**e**	**337093**	■ 370930	1

NOTE: For items other than those listed here the faulty unit must be returned to an Authorised Service Centre.

SPARE PARTS   **PYROPEN   WSTA-6**

Catalogue No.	Description		Product Code	APN/UPC	Shelf Pack
91-01U	Handle	**e**	**337166**	■ 371661	1
91-02	Cap	**e**	**337167**	■ 371678	1
91-07U	Ejector		**337168**	■ 371685	1
91-14	Cap Nut	**e**	**337169**	■ 371692	1
91-38U	Piezo	**e**	**337064**	■ 370640	1

NOTE: For items other than those listed here the faulty unit must be returned to an Authorised Service Centre.