

SP440 self-contained desoldering system



Power on demand for through-hole desoldering

The Metcal® SP440 Self-Contained Desoldering System is designed for production through-hole rework. With 50 Watts of power and tips designed to maximize heat transfer, the SP440 is ideal for heavy load desoldering of components on heavy ground plane and multilayer PCBs. The SP440 delivers superior Metcal performance at a price competitive with lesser tools.

Using SmartHeat technology, the SP440 delivers higher watt density power at lower temperatures than conventional desoldering tools. This minimizes the risk of thermal damage.

The whisper quiet, self-contained vacuum pump delivers a powerful vacuum capable of clearing through-holes quickly and completely. As the vacuum system is built into the unit, the SP440 is portable and ideal for areas lacking shop air.

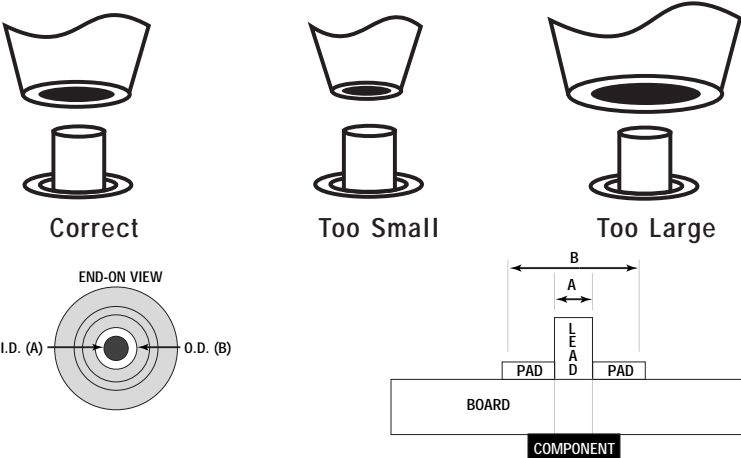
The lightweight, ergonomic pencil grip desolder tool is designed to maximize control and comfort while reducing fatigue. The cable and vacuum tubing are burn-resistant and the paper solder collection chamber liner has been designed for easy disposal – no glass tubes! Also, the SP440 has an automatic Time-Out feature to extend tip life. Desolder tips are sold separately.

Choosing the correct desolder tip cartridge

Proper tip cartridge selection is important for getting the best results. Choosing the right tip cartridge will maximize your performance at the lowest possible temperature. Since changing tip cartridges is so quick and easy, there is no need to compromise.

Choosing the correct geometry

Select a tip with an inside diameter larger than the lead diameter and an outside diameter approximately the same size as the pad.



Choosing the correct Series

The SP440 features high durability SDC desolder cartridges, designed for high heat transfer, making desoldering on multi-layer boards much easier. Desolder cartridges are available in two temperature ranges (600 and 700 Series). A typical board usually requires a 700 Series tip. Try a 600 Series tip first for thermally sensitive components or small single-sided boards. 800 Series tip cartridges are available should a higher operating temperature be necessary. These are not recommended for general use as tip oxidation increases at high temperatures.

Dimensions in inches

Inside Diameter A	Outside Diameter B	Part Number	600 Series	700 Series	800 Series
0.025"	0.055"	SDC-602	SDC-602	SDC-702	SDC-802
0.030"	0.060"	SDC-603	SDC-603	SDC-703	SDC-803
0.040"	0.070"	SDC-604	SDC-604	SDC-704	SDC-804
0.050"	0.080"	SDC-605	SDC-605	SDC-705	SDC-805
0.060"	0.090"	SDC-606	SDC-606	SDC-706	SDC-806
0.095"	0.125"	SDC-607	SDC-607	SDC-707	SDC-807

Systems

SP-440-11 Self-Contained Desoldering System, 120 VAC

SP-440-21 Self-Contained Desoldering System, 220/240 VAC

Includes:

SP-PW3	Power Supply with power cord*
DP-DSG2	Desolder Tool assembly, pencil grip
DP-FIL	Filter Pack
DP-SL3	Front seal for DP-DSG2
DP-WSK2	Desolder workstand with AC-YS3 Sponge
AC-CP2	Cartridge removal pad
AC-TC	Tip Cleaners

*220/240VAC Systems do not include power cords.

Replacement parts

DP-VP1	Vacuum pump for SP440-11
DP-VP2	Vacuum pump for SP440-21
DP-CA2	Coil assembly
DP-CC	Solder collection chamber
DP-SL3	Front seal for DP-DSG2
DP-VB1	Valve body assembly
DP-VL1	Vacuum line, ESD
DP-WSC2	Replacement desolder cradle for DP-WSK2
AC-YS3	Sponge