

Your Guide to PCB Benchtop Cleaning

Volume 1, Issue 7

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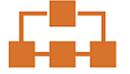
The 6S of Benchtop Organization

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6S: 5S+1 = 5S Plus Safety for an Effective Electronics Benchtop



<p>01 SORT</p>	<p>02 SET</p>	<p>03 SHINE</p>	<p>04 STANDARDIZE</p>	<p>05 SUSTAIN</p>	<p>06 SAFETY</p>
<p>Eliminate clutter from your benchtop. Keep only the essential cleaning tools you need. Flux remover, wipes, the TriggerGrip™ tool and brushes.</p> 	<p>A place for everything. The TriggerGrip™ Bench Mounting Kit clears your work surface, yet keeps the tool close at hand.</p> 	<p>Keep your benchtop ready for work with a good cleaning. Use static dissipating cleaning wipes on mats, bins, tools and more.</p> 	<p>Make sorting, organizing and cleaning a daily routine until it becomes a habit.</p> 	<p>Keep it going! Establish your culture of continuous improvement.</p> 	<p>BONUS STEP! Choose nonflammable cleaning fluids to reduce the risk of fire.</p> 







ESD Presturated Cleaning Wipes
MCC-EC00W

SuprClean™ Heavy Duty Flux Remover
MCC-SPR

Lint-Free Wipes
MCC-WF44

Bench Mounting Kit
MCC-BK3

Standard Replacement Brush
MCC-RBNB

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The One Tool to Clean PCBs Better

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Discover Perfectly Clean

TriggerGrip™ Dispensing Tool

Clean PCBs better, faster, safer and more economically



Wet • Scrub • Rinse • Dry

TriggerGrip™ Replacement Brushes

Learn More



Discover Perfectly Clean



Replaceable TriggerGrip™ Brushes

A brush for every cleaning method

Standard Brush

Tightly packed, short natural bristles. Gently scrubs and rinses component surfaces to easily remove contamination. ESD safe. Order part #MCC-RBNB



Surface Mount Brush

Small, natural bristle brush allows superior cleaning on tightly-spaced SMT and hybrid technologies. ESD safe. Order part #MCC-SMB.



Spray-Thru Syringe

Cleans under densely-packed components such as quad-packs, connectors and switches. ESD safe. Order part #MCC-SR35.



Slo-Flo Brushes

A built-in flow restrictor reduces solvent flow. Ideal for use with slower drying solvents. ESD safe. Order part #MCC-RBNB2 for natural bristle or MCC-SQB for soft bristles for delicate electronics.



Bench Mounting Kit
Keeps your benchtop clear. Holds the TriggerGrip and cleaning fluid can.
Part # MCC-BK3.



SuprClean™ Flux Remover easily cleans high-temperature rosin, RA and RMA fluxes.
Part #MCC-SPR



Lint-Free Wipes dry PCBs without leaving fuzz behind.
Part #MCC-WF44

ISO 9001:2015 Registered

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The 4 Steps of Successful Benchtop Cleaning

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Cleaning Printed Circuit Boards

THE HAZARDS OF DIRTY CIRCUIT BOARDS

- Poor soldering connections
- Dendrite growth
- Noise to the PCB
- Board Failure



THE COST OF UNCLEAN COMPONENTS

- Rejects
- Scrapped boards and wasted product
- Production downtime for rework
- Returns and warranty claims



TYPICAL CIRCUIT BOARD CONTAMINANTS

DUST
FINGERPRINTS
FLUX RESIDUE

4 STEPS TO CLEANING PCBs - WET, SCRUB, RINSE, DRY

1

Wet

WET RESIDUES
WITH SOLVENT



2

Scrub

SCRUB WITH
A BRUSH



3

Rinse

RINSE AWAY
WITH SOLVENT



4

Dry

DRY WITH A
WIPE OR AIR



TRIGGERGRIP™ TOOL FOR CLEANING

50%

CUTS SOLVENT USAGE, BECAUSE OPERATORS
CAN TARGET DIRTY AREAS ON THE PCB

100%

ALL THE FLUID IS USED BECAUSE
EVERY CAN EMPTIES COMPLETELY

0

THERE IS NO OVERSPRAY – UNLIKE
TRADITIONAL AEROSOL CANS

<20ppm

FUMES ARE REDUCED TO HELP
IMPROVE WORKER SAFETY

5-9%

IMPROVED PRODUCTIVITY OVER OTHER
MANUAL CLEANING METHODS

TriggerGrip™

MicroCare™

Discover Perfectly Clean

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Benchtop Cleaning Articles

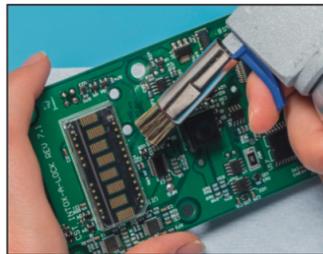
Benchtop Cleaning with IPA: 3 Reasons to Stop Now

IPA (Isopropyl Alcohol) has typically been the popular choice for electronics cleaning. However, IPA might not be the best option. Here's three reasons why.



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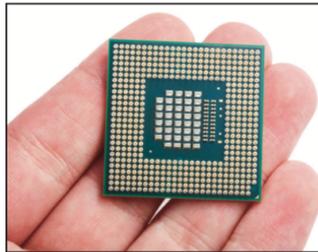


Cleaning Printed Circuit Boards at the Benchtop: Three Options

Benchtop cleaning is an important step in the assembly of PCBs. There are three primary methods used. Each has varying degrees of success.

Tackling Difficult PCB Cleaning Challenges

PCBAs continue to shrink in size and grow in complexity. So, it is important to understand the PCBA construction, what the contamination is and how to best remove it.

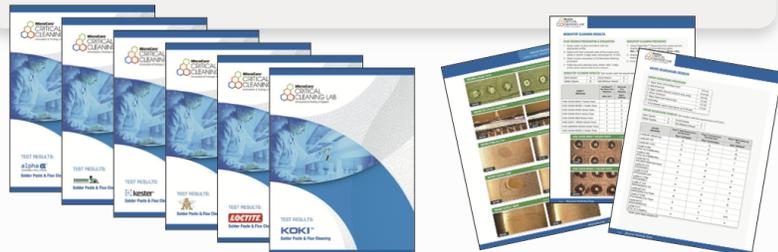


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MicroCare Does the Work for You

MicroCare partnered with the top flux and paste makers in the electronics industry. We brought their best-selling fluxes and pastes to our Critical Cleaning Lab and ran a study, with their assistance, to identify the specific MicroCare cleaners that will work with each specific flux or paste. All are verified to the IP Standard 610. The comprehensive test results and reports are available to help you choose which one is right for you.



ALPHA · INDIUM · KESTER · AIM · LOCTITE · KOKI

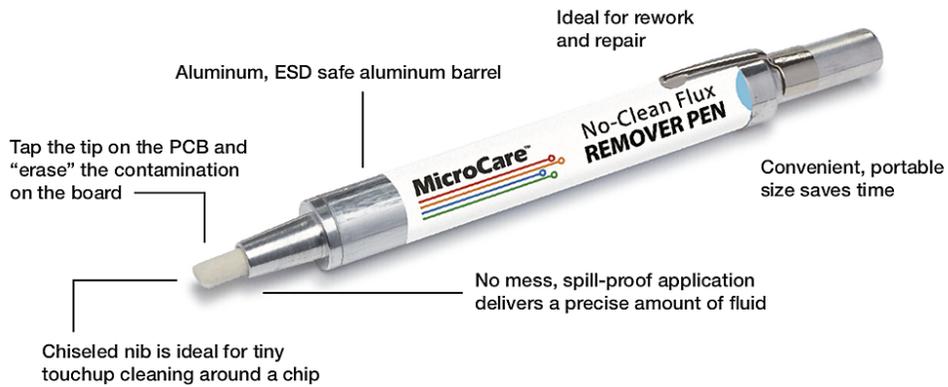
Cleaning with Pen Point Accuracy

Learn More



Discover Perfectly Clean

Flux Remover Cleaning Pens Deliver Spot-On Cleaning



The Industry's BEST FLUX REMOVERS in convenient cleaning pens



NO CLEAN FLUX REMOVER Cleaning Pen



IDEAL FOR SPOT-CLEANING NO-CLEAN FLUXES ON PCBs

- Best on no-clean fluxes, silicone oils, coatings, grease, adhesives and inks
- Mild cleaner with a low odor and fast drying time

WATER SOLUBLE FLUX REMOVER Cleaning Pen



MAKES TOUCH-UP CLEANING OF OA FLUXES FAST AND EASY

- Cleans rosin, water based and no-clean fluxes and fresh chip bonder
- Medium strength cleaner with an alcohol odor and slow drying time

RMA FLUX REMOVER Cleaning Pen



REMOVES THE TOUGHEST, HEAVY AGED & BURNED-ON SOLDER PASTES

- Good at removing polar and ionic activators in rosin, RA and RMA fluxes
- Strong cleaner with an acetone odor and a slow drying time

PRODUCT	PART NUMBER	PACKAGING	WEIGHT
No Clean Flux Remover Cleaning Pen	MCC-DC1PEN	1 Pen (10 mL)	.5 oz
Water Soluble Flux Remover Cleaning Pen	MCC-PROPEN	1 Pen (10 mL)	.5 oz
RMA Flux Remover Cleaning Pen	MCC-RMAPEN	1 Pen (10 mL)	.5 oz

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TriggerGrip™ Real User Review



The TriggerGrip™ in Competition



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Benchtop Cleaning FAQs

What's the Best Way to Clean PCBs at the Benchtop?

What's Wrong with the Dip and Brush Method?

What's the TriggerGrip™ and How Does it Help Me?

How Can I Cost-Justify the TriggerGrip™ System?

How Do I Use the TriggerGrip™ System?

How Long Will a TriggerGrip™ Last?

How Do PCB Cleaning Pens Work?

Do Flammable Cleaners Create a Hazard on the Rework Bench?

Further Reading

Modern Electronics Require Updated Cleaning

The Importance of Drying in PCB Cleaning

PCB Repair Depot Reduce Costs with Better Cleaning Tools and Fluids

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