

When performance and reliability are essential, you need DeoxIT® products!

ESSENTIALS

Guide



Get to know CAIG Labs
extraordinary line of products . . .

Improve the
performance & reliability
of ALL electronic equipment,
Guaranteed!



Home of the DeoxIT® family of Environmentally-Safer
Contact Cleaners and Connector Enhancing Treatments
Made in USA

• **What makes DeoxIT® products different?**

DeoxIT® Essentials are four unique formulations guaranteed to improve the performance and reliability of ALL electronic devices and equipment.



General “contact cleaners” are effective in washing away surface dirt, dust, and grime from surfaces, but prove ineffective for removing oxidation and metal sulfides.

These tough contaminants actually attach to, and become an integral part of the contact metal, causing reduced performance, system failures and increased service calls.

The only true method of eliminating oxidation and surface sulfides is by chemical action and reaction, and that’s what puts **DeoxIT®** products in a class by themselves.

So when you want to do general cleaning and remove dust, dirt, and grime, and other surface contaminants, use a general flushing cleaner (CAIG part #DCC-V510, DDW-V610, DFW-V710). But when you need to safely cure contact related problems and dramatically improve equipment performance . . .

... CHOOSE DeoxIT®.

The **DeoxIT® Essentials**, world recognized as the best products to improve the performance and reliability of ALL your electronic devices and equipment, **GUARANTEED!**

When performance and reliability are essential, you need the DeoxIT® Essentials!

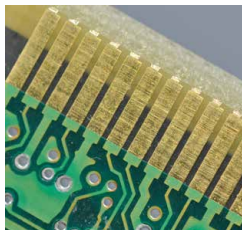
Atmospheric contamination causes poor performance, intermittent signals or in some cases, total device failure.

Problem with contact cleaners:

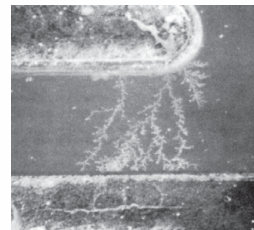
- ✗ Solvents flush away surface contamination but do not solve the problem
- ✗ Cannot remove oxides and sulfides, the major cause of decreased performance and failures
- ✗ Do not improve conductivity
- ✗ Most are not safe on plastics
- ✗ High waste, less eco-friendly



Corrosion you **CAN** see



Connections **APPEAR** clean
(even after using generic contact cleaners or alcohol)



Corrosion you **CAN'T** see
(what lies beneath)

DeoxIT® Solutions:

- + Do not require solvents
- + Active ingredients chemically dissolve surface contamination (oxides and sulfides) without harm to metals and plastics
- + Increase conductivity (without causing shorts)
- + Seal & protect surfaces
- + Actively displace moisture & contaminants
- + No waste - safer for the environment
- + Work, when others do not!

Bottom Line - DeoxIT®, Guaranteed to Improve the Performance & Reliability of ALL Equipment & Parts!

• DeoxIT® Gold G-Series

Chemically Improves Gold Plated Connections & Contacts

Contact Enhancer & Protector for Gold Surfaces

"Maximize New System Performance"



- + Reduces noise and distortion
- + Improves clarity and definition
- + Faster & reliable data transfers
- + Reduces wear & abrasion
- + Prevents fretting / dendrite corrosion
- + Stabilizes connections between similar and dissimilar metals
- + Ideal for surfaces under vibration
- + Reduces arcing, RFI and intermittents

Where to Apply DeoxIT® Gold:

- + Computer connections
- + Audio/video connections
- + Low voltage devices
- + Switches, RCA jacks
- + Nonferrous metal surfaces
- + Test equipment, probes and sockets
- + High performance and critical applications

Temperature Range for DeoxIT® Gold Products:

- DeoxIT® GOLD G100L: -34°C to 240°C
- DeoxIT® GOLD GxL: -45°C to 310°C
- DeoxIT® GOLD Gx2: -45°C to 500°C

DeoxIT® Gold G-Series is a unique formulation which conditions, seals, and protects gold plated metal connectors and contacts. **DeoxIT® Gold** is ideal for gold and all nonferrous metal surfaces. It deoxidizes minor amounts of surface contamination, penetrates plated surfaces, and molecularly bonds to the base metal, sealing and protection all surfaces.

Directions for use:

Turn off device. Pre-clean with **DeoxIT® D-Series** contact cleaner on heavily oxidized surfaces. Apply **DeoxIT® Gold G-Series**, wait 2 minutes, wipe with a clean lint-free cloth or swab. *If you notice a green/black coloration, this indicates dissolved oxides.* Repeat process until the cloth appears clean. Then wipe off excess. Wait 2 minutes, then turn on device.

• DeoxIT® Gold G-Series

Considering the hundreds (if not thousands) of connections in electronic equipment today, it is only a matter of time before they begin to fail, primarily due to oxidation and corrosion.

Physical and chemical changes in surface conditions of electrical or electronic connectors are a primary cause of degraded performance in components and equipment.

When contact surfaces are exposed to dust, smoke, gases, soot, and other solids suspended in the atmosphere, non-metallic films form, inhibiting conductivity. Oxidation is the most common reaction causing metal oxide formations.

Salt-laden air in coastal areas corrodes most metals, forming chloride films. Humidity, condensation, salts, sulfur, and acid fumes are also common causes of rust, corrosion, and oxidation. Added resistance and friction between metal surfaces can also cause abrasion, noise, freeze-up, and in some cases, increased power consumption.

DeoxIT® Gold G-Series

DeoxIT® Gold G-Series is specifically formulated to improve conductivity and provide long-lasting protection on gold, precious metals and their base metals. It

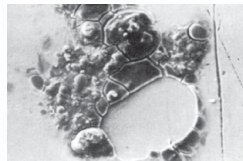
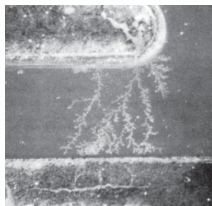
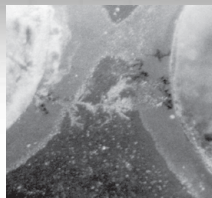
penetrates connectors, contacts, and other metal surfaces and conditions these surfaces; thus enhancing the conductivity characteristics to efficiently transmit electrical signals.

DeoxIT® Gold can be used on all metal surfaces and is formulated to remove minor amounts of oxidation caused by wear, abrasion or dendrite corrosion. DeoxIT® Gold coats the entire contact surface and connection, providing superior protection from abrasion (insertion resistance), dendrite corrosion, arcing, RFI, wear, and atmospheric contamination, even under vibration.

DeoxIT® Gold is effective on stationary and moving contacts and connectors with similar or dissimilar metals. When a treated and untreated connector mate, DeoxIT® Gold migrates to coat both surfaces. When connectors separate, DeoxIT® Gold recoats both exposed metal surfaces.

DeoxIT® Gold's unique formula contains conditioners, deoxidizers, preservatives, conductivity enhancers, arcing & RFI inhibitors and anti-tarnishing compounds. This reduces intermittent connection problems and significantly increases the quality and reliability of electrical and electronic components and equipment.

**Prevent
dendrite/fretting
corrosion & blistering
of metals.**



• DeoxIT® Shield S-Series

Protects Metal Surfaces in Severe Environments

Contact Sealant & Protectant

“Maintain New System Performance for Severe Environments!”

- + Maintains connection integrity
- + Superior lubrication and protection in harsh environments (humidity, salts, pollutants, sulfur, etc.)
- + Prevents data errors, lockups, and intermittents
- + Reduces arcing, RFI, wear, and abrasion
- + Prevents oxidation and corrosion

Where to Apply DeoxIT® Shield:

- + Wire and cable
- + Industrial computer & equipment connections
- + Exterior electrical connections
- + Marine/Industrial environments
- + Metal connectors & contacts
- + Outdoor lighting
- + Terminal strips, relays, probes
- + Contactors/disconnects

- **Temperature Range for DeoxIT® Shield:** -34°C (-29° F) to +210° C (410° F)



✓ **Treatment for new or clean electronic connections and metal surfaces.**

DeoxIT® Shield S-Series is recommended for newly manufactured components, or those pre-cleaned with **DeoxIT® D-Series** contact cleaner. **DeoxIT® Shield** provides long-lasting protection in harsh environments (high degrees of humidity, pollution, sulphur, salts, acids, etc.)

Directions for use:

Turn off device. Pre-clean with **DeoxIT® D-Series** contact cleaner. Apply **DeoxIT® Shield**. Wipe off excess with a clean lint free cloth or swab. Wait two minutes. Turn on device.

• **DeoxIT® Fader F-Series**

Lubricates & Protects Conductive Plastic Faders & Controls

Treatment for Conductive Plastic and Carbon-based Controls/Potentiometers

- + Formulated for Conductive Plastics & Carbon-Based Controls
- + Lubricates Faders, Switches, Potentiometers & other Mechanisms with Sliding Surfaces
- + Maintains Optimum Signal Quality
- + Reduces Wear & Abrasion
- + Maintains Tactile Feel



✓ **Lubricates and Protects Plastic-to-Plastic and Plastic-to-Metal Surfaces**

Where to Apply DeoxIT® Fader (FaderLube):

Conductive plastics, faders, switches, carbon-based potentiometers, moving and sliding plastic-to-plastic and plastic-to-metal surfaces.

DeoxIT® Fader F-Series, is also effective on conductive membrane switches and components. Oil, grease, and acids build up on membrane surfaces due to repeated finger contact, leading to device malfunction. These contaminants are displaced above the **DeoxIT® Fader** layer preventing contact with the plastic membrane. Applying **DeoxIT® Fader** provides improved performance and long-lasting protection.

Directions for use:

Turn off device. Apply a small amount of **DeoxIT® Fader** to plastic surfaces. Operate the part or device to distribute lubricant over the surface. For best results, reapply a second treatment. Wipe off excess with a clean lint-free cloth, if possible. Wait two minutes. Turn on device.

NOTE: For thicker lubricant, use **DeoxIT® FaderGrease**. For lubrication of magnetic faders, apply **DeoxIT® X105** (refer to equipment manufacturer instructions). Contact CAIG for details.

• **Temperature Range for DeoxIT® Fader F-Series:** -26°C (-15° F) to +150° C (302° F)

• DeoxIT® Grease - Type M260 & L260

Mechanical and Electrical Grease

Treatment for Mechanical and Electrical Parts & Equipment

DeoxIT® Grease, Type M260:

Mineral-based preparation.

DeoxIT® Grease, Type L260:

Lithium-based preparation.

M260Np and L260Np: No particles.

M260Cp and L260Cp: Copper (conductive) particles.

M260Ap & L260Ap: Aluminum (conductive) particles.

L260Gp: Graphite particles.

L260Qp: Quartz (Non conductive) particles.

L260GQp: Quartz/Graphite (non conductive) particles

NEW! L260Tp: Teflon particles

Manufactured in semi-solid form for use as a combination cleaning, deoxidizing, protecting and lubricating preparation. Greases protect against oxidation (galvanic corrosion) and are free of mineral acids, sulphurs, alkalis and other noxious components aggressive to metals. DeoxIT® Greases improve performance of electrical contacts and mechanical components that require precise lubrication.

• **Temperature Range for DeoxIT® Greases:** -40°C (-40° F) to +260° C (500° F)



USES - Mechanical:

Bearings (all types), doors (closures), drives (chain/sprockets), hatch closures, O-rings and seals, linear motion systems, plugs (threaded holes), rack & pinion assemblies, screw devices (jacks, rails), slide bushings, sliding parts, tracks/guides/rails, threaded closures, worm gears, etc.

USES - Electrical:

Antenna connections, battery terminals, buss bars, commutators, conductor rails, conductors, contactors, disconnects, drying & processing equipment, high amperage/high voltage applications, industrial electrical equipment (lifts, cranes, robotics, etc.), power tools, relays & switches (heavy duty, knife, step, rotary), etc.

• HAND-E-GLOVE®

Invisible Glove Protects & Shields Your Hands

NEW!

HAND
*Repels/Protects
AntiStatic*
eGLOVE®



MADE IN USA

A Unique Hand Lotion that Creates an Invisible Glove

*Protects and Shields Your Hands from
Dirt, Oil, Grease, Chemicals and
Harsh Contaminants While You Work*

+ Conditions + Moisturizes + Non Greasy



AVOID THIS!



USE THIS!



Use at Home and Work:

- + Mechanics
- + Electronics
- + Painting
- + Tile Work
- + Motor Sports
- + Hobbies & Crafts
- + Grease and Oils
- + Gardening
- + Cleaning Solutions
- + Abrasives
- + Anti-Static

Simply apply
HAND-E-GLOVE®, and
your hands are protected,
It's that simple!

Plus HAND-E-GLOVE® has
Antistatic Properties!

- Moisturizes Skin
- Safe / Tested
- Non-Greasy
- Does Not Impair Grip



PART # EEP-102
Net Wt: 2.0 OZ (59 mL)



PART # EEP-102-16
Net Wt: 16 OZ (354 mL)



PART # EEP-102-PP12, Pillow Packs, 12 ea.
PART # EEP-102-PP50, Pillow Packs, 50 ea.

Online Videos at www.eartheproducts.com

• Additional CAIG Professional Products

Contact Cleaner Spray WASH



Part No.:
DCC-V510
(10 oz)

Degreaser Spray WASH



Part No.:
DDW-V610
(10 oz)

Flux Spray WASH



Part No.:
DFW-V710
(10 oz)

Citrus Cleaner



Part No.:
DCC-V810
(10 oz)

Label & Adhesive Remover



Part No.:
DLR-V910
(10 oz)

DustALL™ Spray



Part Nos.:
CCS-2000
(10 oz)

CCS-2005
(4.5 oz)

DustALL™ PRO Spray



Part No.:
CCS-2100
(10 oz)
Nonflammable

Screen Cleaning Kits



Part No.:
CCS-503
(22 oz)
NEW & IMPROVED

Deoxit® Brand MechanicALL™



Part No.:
M205-9 and
NEW! M205-6N
(Nonflammable)

Available in needle
applicator and
bulk containers



• Additional CAIG Professional Products

CircuitWriter™
Conductive Silver Coating
(for rubber, epoxy, glass, plastic)



Part Nos.:
CW100P (precision pen)
CW100L-4 (125 g), CW100L-32 (1000 g)

CaiKleen™ RBR
Rubber Cleaner & Rejuvenator



Part Nos.:
RBR100L-25C (needle),
RBR100L-12 (bulk)

CaiKote™ 44
Conductive Silver/Carbon Coating
(for rubber, epoxy, glass, plastic)



Part Nos.:
K-CK44-G
CK44-8 (226 g)

CAIG Fiber Optic
Cleaning Kits & Accessories



Part No.:
K-F079

DeoxIT® Lube
Precision Instrument Oil



Part Nos.: X10S-P (oil)
X10S-25C (needle)
X10S-32 (bulk)

DeoxIT® AxeWipes
Get better sound quality
from ALL your metal strings



Part No.: AX30W (30 wipes)

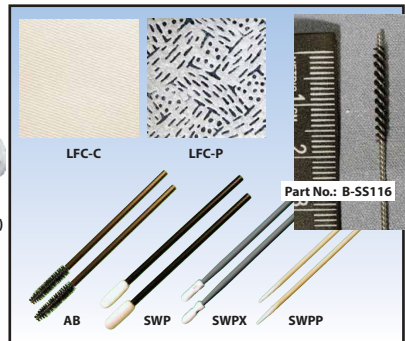
DeoxIT® Brand
Rosin Soldering Flux
& Tip Tinner/Cleaner



Part Nos.: RSF-R80-2 (56 g),
RSF-R80-8 (226 g), RSF-R80-8G (syringe)

Part No.: TPC-14 (14.2 g)

Lint-Free Brushes, Swabs & Cloth



Part No.: B-SS116

• Additional CAIG Professional Products



DeoxIT® SURVIVAL KITS

Emergency SURVIVAL Kit,
Part No. K-DEO-ESK

Audio/Video SURVIVAL Kit,
Part No. SK-AV35

Technicians' SURVIVAL Kit,
Part No. SK-IN30

Computer SURVIVAL Kit,
Part No. SK-CM30

Custom available

**OTHER KITS AVAILABLE,
Visit www.caig.com**

DeoxIT® Gold VACUUM TUBE KIT



Part No.: SK-GxMD

Laptop / Tablet CLEANING KIT



Part No.:
SK-LT19

DeoxIT® MiniSpray & 100% Liquid Brush KITS



Part No.: DGN5MS-15



Part No.: K-DG100L-2DB

Battery & Device Connector Cleaning Kit



Part No.: D100L-B2C

Gx3™ Audio/Video Connector Cleaning Kit



Part No.: K-Gx3-AV

- **Variety of Applicators for All Industries**



Spray	Mini-spray	Needle	Pen	Tube	Brush	Wipes	Syringe	Jar	Bottle	Can
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(Applicators not to scale)

• What the Industry Experts Say!

PROFESSIONAL EXPECTATIONS EXCEEDED WITH DeoxIT®

I just built a recording rack for Paul McCartney and it had a problem at the time of the first show. I had tested the system before it left the shop, and the two Tascam MX-2424's, a Berhinger DDX-3612, a Rosendahl Time word clock generator, and 72 Glyph Hard Drives all worked at the shop. Two hours before the show, I found myself trying to get the system up and going.

One of the Tascam units had stopped working, and I could not understand why! I was in panic. It was a sold out show, and people started getting seated. The unit had a flash memory card in it, and I figured that since it was locking up on start, there had to be a problem with the card. It was not loading the data, so I used some DeoxIT® D-Series contact cleaner on the contacts, wiped it off, then use the DeoxIT® Gold solution. I then tried it again, and IT WORKED! The memory was reloaded, and the show was recorded as planned.

I am an avid DeoxIT® customer and always will be. I use it along with the DeoxIT® Gold and DeoxIT® Fader (FaderLube) on controls and switches on outboard gear, as well as audio consoles worth well over \$250,000. I will always use DeoxIT®, and now our whole company uses it as well. We use it for tours like the Rolling Stones, Paul McCartney, Incubus, and AC/DC, to name a few. We also use it on the equipment for theater shows like Riverdance and Barney.

DeoxIT® can be trusted around the world, and let me tell you it is! Thanks CAIG for such a great product. You saved us more than once!

D. Ranshaw, Service Manager, db Sound

DeoxIT® Gold CURED OUR INTERMITTENT PROBLEMS!

We manufacture, install, and service industrial equipment in the electronics manufacturing industry worldwide. Over the years, the division that had the biggest problem is our warranty repair. Our service technicians would repeatedly go back to the same account to troubleshoot and fix contact and connector related issues. It got so bad

on some accounts (in high humidity and high pollutant environments) that we changed all the connectors to gold plated and in some instances, direct soldered the connections.

I then read an ad in an industrial magazine for a product (DeoxIT® D-Series contact cleaner and DeoxIT® Gold) that said it would improve and cure connection problems. Since we tried just about every contact cleaner, enhancer, and vapor corrosion inhibitors, which also said it cured connection problems, I was hesitant to say the least. I am the systems service manager for this division, and this issue is costing the company millions of dollars annually, so I was almost desperate to solve this problem and willing to try anything. So I ordered one of CAIG's industrial survival kits and tried it on a few of the most difficult cases we had.

I AM NOW A CAIG BELIEVER - After eight months no service calls due to contact and connector issues. We now include a DeoxIT® D-Series and DeoxIT® Gold kit with every system we install and it is a survival tool for all of our service technicians. Looks like sometimes you can believe what you read in an advertisement.

Thanks, CAIG for saving our company millions of dollars and making us look like miracle workers with our customers.

Mike Klein, System Service Manager

"CONTACT CLEANERS KEEP TRYING"

Recently, a rep from another chemical company sent me a sample can of their new contact cleaner, promising to "blow away DeoxIT® D5, at a cheaper price". I moistened a swab with THEIR cleaner, and took it to one-half of the dirty edge connector pads on a nasty looking PCB. It barely touched it. I repeated the process with DeoxIT® D5. It removed the oxidation immediately and the device has worked perfectly ever since.

John R. Frondelli, Tech Services Director, dBm Services

• Our Customers are Our Best Advocates!

Boeing Co.

We have been using CAIG products on switches, contacts and edge connectors and they are considered "Preferred Products" at Boeing.

Bose Corporation

DeoxIT® D-Series is an excellent product for removing oxidation and contamination from dirty switches & controls and reducing intermittent contact problems. We have been using CAIG products with great success for over 35 years.

Diebold, Incorporated

We have been using CAIG products since 1980 on our automated teller machines to help ensure reliable performance.

General Electric

We were having trouble with edge connectors in our manufacturing environment until we tried DeoxIT® Gold Wipes great product.

Hewlett Packard

Consistent intermittent connection failures on PC board edge connectors for our micro automation equipment have been eliminated by using CAIG's DeoxIT® Gold Wipes. It has been indispensable in reducing down-time on our equipment.

Honeywell Inc.

CAIG's DeoxIT® D-Series is great stuff. We use it on feedback slidewires, edge connectors, & relay contacts in industrial process controls.

News/Studio Sessions Editor, Radio World

The DeoxIT® Gold works great. I used it on some old tube equipment and it eliminated a loud hum that I thought was something more serious. DeoxIT® D-Series also got rid of the recurring contact noise in a rotary control that usually returned after using other sprays. Even works on keeping oxidation from metal panels and knobs.

Rane Corporation

People call me daily asking for recommendations for cleaners and lubricants. Most everyone has tried something less than DeoxIT®, and after using what we authorize, the results are always positive, sometimes bordering on miraculous.

Tektronix

We use DeoxIT® Gold Wipes to protect virgin edge connectors, DeoxIT® D-Series contact cleaner to eliminate intermittent problems on primitive tin-to-tin connectors (which tend to vibrate) and will be using DeoxIT® Gold in the field for gold connectors excellent products.

Xerox Corporation

Corrosion problems on very sensitive connectors have been an annoying problem for us. We have tried many products without success until we tried CAIG's DeoxIT® D-Series and DeoxIT® Gold. They are the only products that have worked perfectly. We highly recommend them.

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