

# Have a Plan to Salvage Water-Damaged Equipment

## A HOW-TO GUIDE

### A. Clean the Equipment

To remove dirt, mud, oil, sludge and other contaminants deposited by water, follow these directions as closely as possible.

1. Remove end bells from electric motors and pumps.
2. Remove covers from switch gears and control panels.
3. Flush or spray equipment with generous amounts of clean water to remove any water based contaminants such as mud, dirt or silt. If possible, dip equipment in a tank or drum of clean water and agitate while submerged.
4. Stand motors and pumps on end and allow to drain.

NOTE: Equipment already soaked with water will not be damaged by the use of clean water to flush away dirt, mud and chemical contaminants. Equipment flushed with clean water responds more quickly to treatment with CRC products.

### B. Apply a CRC Cleaner or Degreaser

To remove oil, grease and sludge contamination not removed by water flushing, spray equipment with Lectra Clean. Spray switch gear and control boxes liberally. Be sure to spray all contaminated areas. Allow to air dry.

NOTE: Since CRC heavy duty degreasers are strong cleaners, they may cause crazing or softening of some plastics. It is recommended that a small area be tested before using on plastic parts.

#### CRC HEAVY DUTY LECTRA CLEAN

- No flash point, no fire point
- Ideal for cleaning equipment in place since disassembly is not required
- Excellent pre-assembly degreaser of all mechanical and electrical components
- Does not contain Carbon Tetrachloride, Silicones, CFC 113 or Methyl Chloroform
- May be harmful to some plastics



PART NUMBER	CONTAINER SIZE
2018	Aerosol 400gm
2020	Can 4L

#### CRC AEROCLEAN DEGREASER

- Highly concentrated jet to penetrate the grease and grime build-up
- A unique combination of surfacants, detergents and solvents
- Cleans concrete floors and driveways
- Non-corrosive
- Water wash-off with no residue

PART NUMBER	CONTAINER SIZE
5070	Aerosol 500ml



NB: This practise will remove all protection against corrosion therefore Step C. is very important to protect against corrosion.

### C. Apply a CRC Moisture Displacing Lubricant

Saturate equipment inside and out. When possible, dip equipment in 2.26®/5.56®. Agitate while submerged. Remove and allow to drain. Spray generously and allow excess to run off. Continue spraying until 2.26®/5.56® run-off is clean and clear.

#### CRC 5.56

- Lubricates for smooth action – Silences annoying squeaks and squeals
- Penetrates quickly – Breaks away rust and corrosion, frees components bonded by dirt and scale
- Eliminates the need for many disassembly operations
- Protective film – Ongoing protection against corrosion
- Displaces moisture to help start wet engines
- Preventative maintenance programs – To increase life expectancy of mechanical equipment
- Safe for all metals and alloys, most painted surfaces, coatings, plastics and rubbers



PART NUMBER	CONTAINER SIZE
5005	Aerosol 400ml
5008	Can 4L

#### CRC 2.26

- Multi-purpose - Precision lubricant, corrosion control, penetrant, cleaner
- Protective lubricating film seals out moisture, and eliminates breakdowns caused by water penetration, humidity, salt air and condensation
- Stops short circuits, current leakage and arcing
- Ideal for effective removal of fingerprint contamination
- High dielectric strength
- Extends operational life and reduces downtime due to unscheduled maintenance and repair
- Plastic-safe
- Non-flammable
- Silicone-free
- Temperature Range -20°C to +150°C



PART NUMBER	CONTAINER SIZE
2005	Aerosol 300gm





## D. Measure Resistance

Take Megger readings after equipment has drained. If readings are not up to minimum resistance levels, REPEAT applications. Minimum resistance levels have been set in the IEEE RECOMMENDED PRACTICE FOR TESTING INSULATION RESISTANCE OF ROTATING MACHINERY STD: 43-1974 reaffirmed 1984. It reads as follows:

- $R_m = kV + 1$
- Where  $R_m$  = recommended minimum insulation resistance in megohms at 40°C of the entire machine winding
- $kV$  = rated machine terminal to terminal potential in rms kilo volts
- Minimum resistance is the 1000 ohms/volt + 1 megohm

## E. Apply a CRC Precision Cleaner

When minimum levels have been reached, spray low voltage contacts with a CRC Precision Contact Cleaner.

### CRC CONTACT 2000

- Non flammable, chemically stable, non conductive, non corrosive
- High grade, pure product, which does not attack components
- Rapid and complete evaporation, with no residue
- Contains no VOC's nor Class I or Class II ozone depleting chemicals
- The pure formulation will clean audio and video heads and precision electronic and light electronic equipment.



PART NUMBER	CONTAINER SIZE
2012	Aerosol 200gm

### CRC CO CONTACT CLEANER

- Evaporates quickly and leaves no residue to increase resistance
- Chemically stable, non conductive, non corrosive
- High Dielectric strength of 27,600 volts
- Safe on most plastics
- Contains no lubricants, silicones or oils
- Perfect for cleaning audio and video heads and other precision equipment
- Does not contain CRC 113 or Methyl Chloroform.



PART NUMBER	CONTAINER SIZE
2016	Aerosol 500ml

## F. Apply A CRC Protection Compound

For best results in the long term, use a CRC corrosion prevention compound to protect equipment until recommissioning.

### CRC CPC 350

- Heavy oily film – Resists run-off and flow
- Lubricating Properties – Promotes easy start-up of stored equipment
- Easy re-application over existing film and/or clean surfaces – Provides ongoing protection
- No mixing or chemical additives required
- Ongoing corrosion protection – Reapplication after 2 years indoors
- Will not restrict electrical current flow
- Safe on paint and most plastics.



PART NUMBER	CONTAINER SIZE
3264	Aerosol 400ml

### CRC CPC 400

- Dry Waxy film – Will not wash or wipe off
- Seals out moisture and corrosive contaminants
- Highly resistant to humidity, salt water and salt spray
- Will not attack plastic, rubber, paint or insulation material
- Easy re-application over existing film and/or clean surfaces – Provides ongoing protection
- Never becomes brittle, will not craze and protects for up to 3 years without re-application
- Easy Removal – Use CRC Brakleen or petroleum solvents.



PART NUMBER	CONTAINER SIZE
3274	Aerosol 400ml

## G. Do Not Energize Until Minimum Resistance Levels are Obtained

When Megger readings indicate minimum resistance levels have been reached, energize motors and pumps under "no load" conditions. Allow to run for a period of time to continue drying under normal conditions. When Megger readings return to normal, motors and pumps can be used in normal loaded manner.

Tropical storms and hurricanes not only cause extensive damage to electrical and electronic equipment, but their aftermath is devastating and requires an extensive clean-up effort. Maximum performance from power tools is a must. Don't forget additional products available from CRC. For more information, visit our website at [www.crc.co.nz](http://www.crc.co.nz)



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