

TB134 (Rev2) - DP-4 Probe Sticking

Overview

This is a step-by-step procedure for routine maintenance on the DP-4 and DP-4D touch probe.

Problem

When digitizing or probing with the DP-4 probe the red led stays on after the probe has moved clear of the contact surface long enough to cancel the digitizing or probing operation. When the stylus is moved by hand the led returns to green.

Solution

Verify that the probe tip is actually moving clear of the contact surface. Incorrectly set probing parameters can give the impression the the probe is sticking. After verifying the parameters are set correctly and the probe tip is moving clear of all contact surfaces clean the DP-4 probe using the following steps and approved contact cleaner/lubricants.

1. The only contact spray cleaners/lubricants approved for use on the DP-4 style probes are **ProGold G5** or **DeoxIT D5**, manufactured by CAIG Laboratories. These are available through MCM Electronics and can be purchased by phone at 1-800-543-4330, from their website, (www.mcmelectronics.com), or from Centroid.

Ordering information:

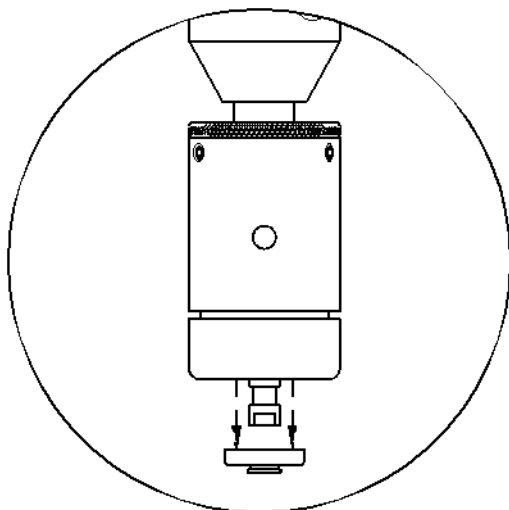
Deoxit D5 - MCM part# 200-040, Mfr# D5S-6

ProGold G5 - MCM part# 200-025, Mfr# G5S-6

Note: Use of any other cleaner or lubricant could damage your probe and result in loss of warranty.

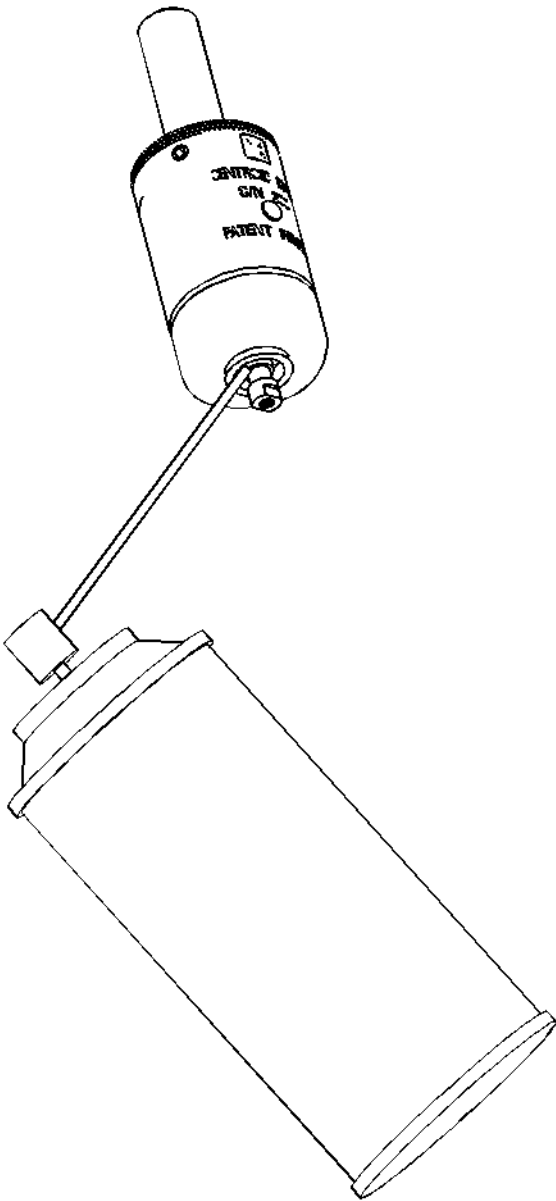
2. Clean the area around the rubber boot at the bottom of the DP-4 probe to prevent contamination inside the probe. Carefully remove the rubber boot , (figure 1). It is not necessary to remove the probe from the machine or tool holder.

Figure 1:



3. Spray a small amount of the DeoxIT D5 or ProGold G5 into the opening around the stylus mount on the DP-4 probe, (figure 2).

Figure 2:



4. Work the stylus mount through its complete range of travel several times.
5. Wipe off any excess cleaner from the probe with a clean towel. If not removed it could cause the rubber boot to swell preventing it from maintaining a good seal.
6. Replace the rubber boot; making sure it is seated properly to ensure a good seal.
7. If the stylus had to be removed in order to remove the rubber boot from the probe, reinstall it and follow the alignment procedure in your DP-4 manual. The DP-4 probe is ready for use.

This procedure can be repeated as needed.

Note: If this does not correct the problem please contact Centroid Technical Support.

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[Rev1](#) Created on **2000-01-10**