53132A-06

S E R V I C E N O T E

Supersedes:
NONE

53132A 225 MHz Counter

Serial Numbers: ALL

Bumper feet on Power Supply and beneath Motherboard can deteriorate/break down over time

Parts Required:

P/N	Description	Qty.
0403-0424	BUMPER FOOT-ADH MTG 20.5-MM-WD	1
0403-0282	BUMPER FOOT-ADH MTG 12.7-MM-WD	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: **INFORMATION ONLY**	
AUTHOR: rns	PRODUCT LINE: SP
ADDITIONAL INFORMATION: Duplicate of 53131A-06 and 53181A-05	

May 20, 2009

Agilent Technologies

Situation:

There are two bumper feet used on the counter – one on the power supply sheet metal, and another beneath the motherboard.

On older units (> 4 years old), we have seen some bumpers that have melted, or are now sticky and soft. The manufacturer of the bumpers indicates there can be two causes of bumper degradation:

1. Exposure to chemicals at the customer site that react with the bumpers over a period of time. The chemicals that are known to be bad for the bumpers are: Isoprophyl Alcohol, Heptane, Toluol or Lacquer Thinner

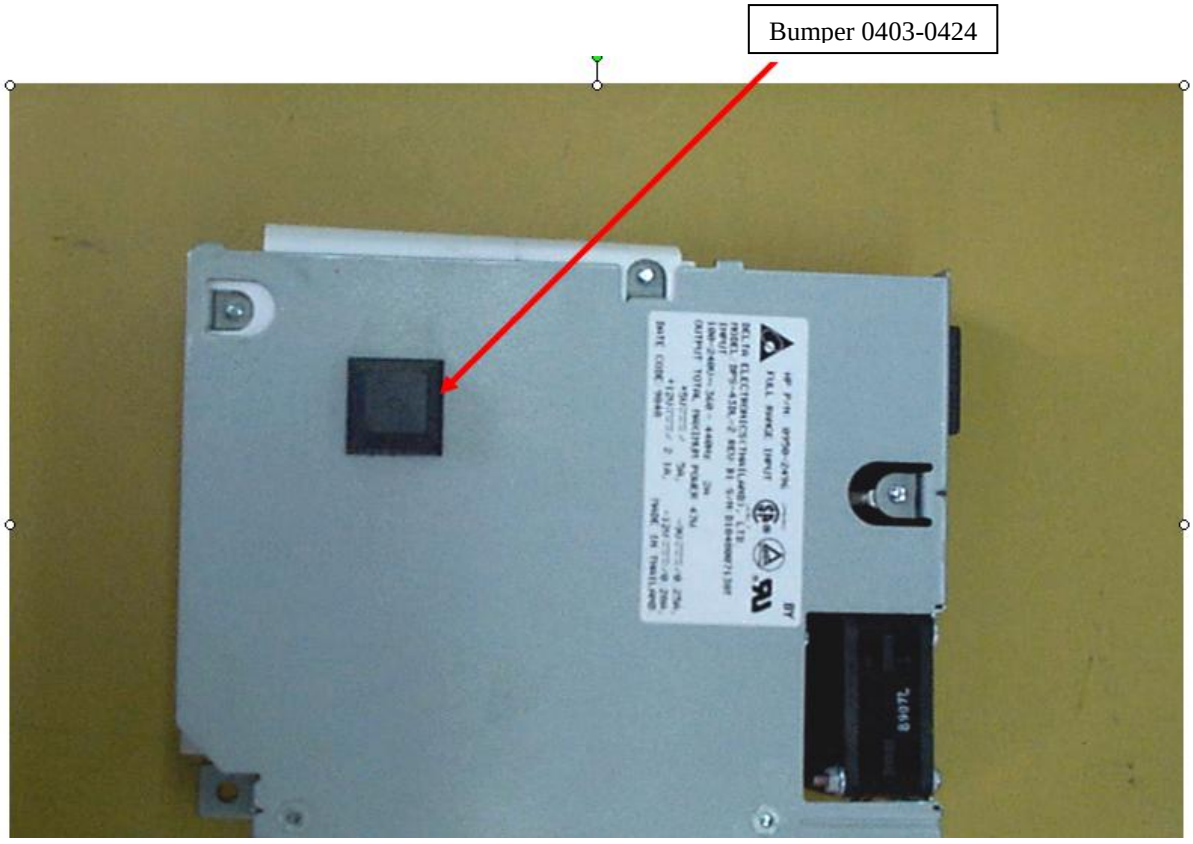
2. Long term exposure to elevated temperature and high humidity. For example, instruments that are in test equipment racks and are in high humidity (> 30% average relative humidity) environments can also see a problem with the bumpers.

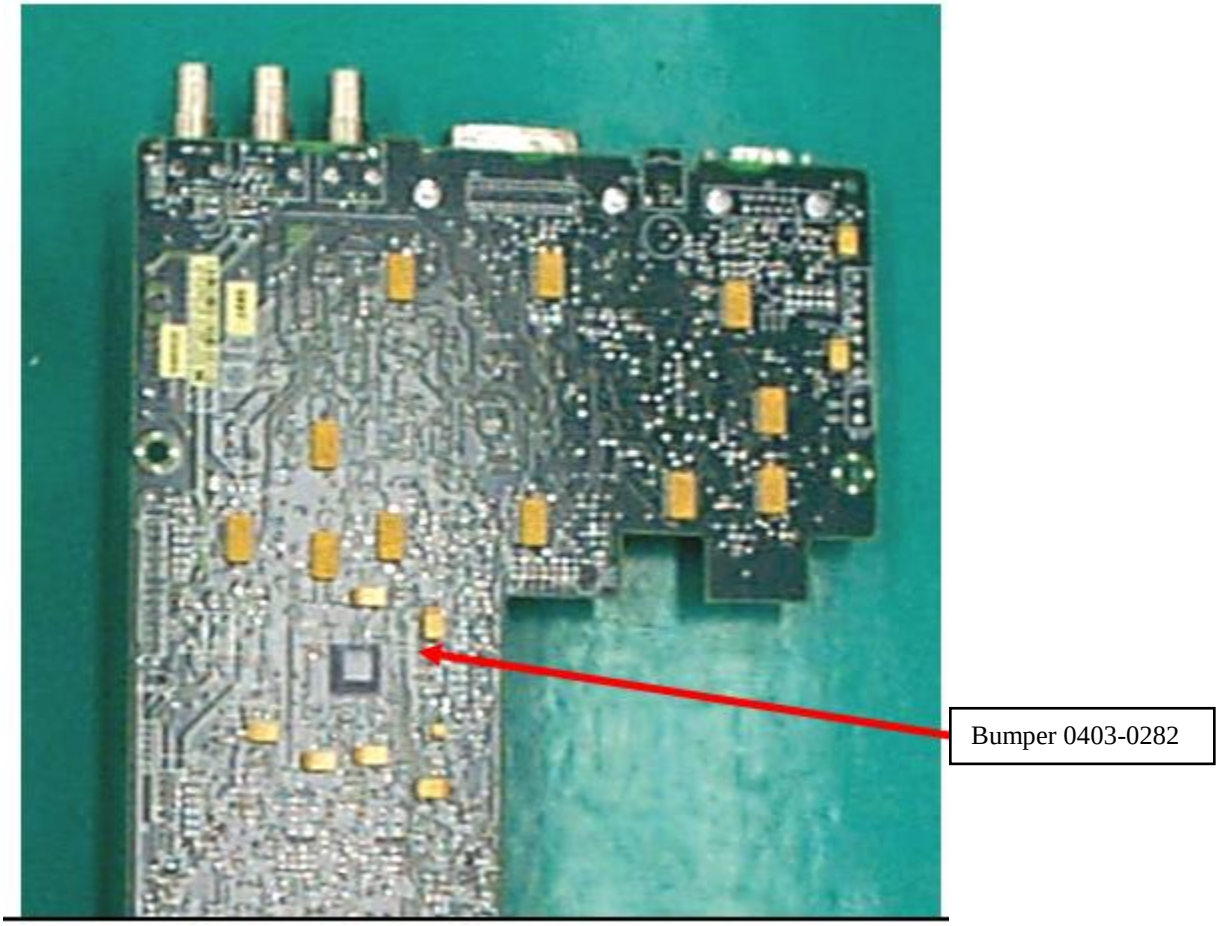
Solution/Action:
On units older than 4 years or so, or on units known to have come from harsh (chemically) environments, open the unit and inspect the bumpers. If during examination, either bumper is easily compressed when squeezing (soft), is sticky to the touch, or if it shows signs of melting, then replace BOTH bumpers.

The locations of each bumper are noted in the pictures below, followed by some pictures of bumpers that have melted. To help remove the melted material on the board, isopropyl alcohol can be used.

There is no indication so far that a bumper that has melted onto the board will harm the instrument, but it is possible that instruments in high temperature environments could get too hot from the extra coating which can result from the melting of the power supply bumper on to the components beneath it.

Part locations are shown next two pictures below:


Bumper 0403-0424


Bumper 0403-0282