

This notice is to inform you of a change that will be made to certain ADI products (see Appendix A) that you may have purchased in the last 2 years. **Any inquiries or requests with this PCN (additional data or samples) must be sent to ADI within 30 days of publication date.** ADI contact information is listed below.

<b>PCN Title:</b>	Firmware update for Devices MAX17300, MAX17301, MAX17302, MAX17303, MAX17310, MAX17311, MAX17312, MAX17313
<b>Publication Date:</b>	04-Oct-2024
<b>Effectivity Date:</b>	04-Oct-2024 (the earliest date that a customer could expect to receive changed material)
<b>Revision Description:</b>	Initial Release.

### Description Of Change:

The firmware update fixes false triggering of the permanent-failure protection while the feature is either disabled with PFEn=0 or enabled with PFEn=1.

### Reason For Change:

The connected battery pack may potentially not charge due to the incorrect triggering of the Permanent Failure protection feature. The protection feature may accidentally get triggered disabling the charge and discharge FETs and asserting the PFAIL pin. Since this condition is copied into the non-volatile memory, a simple reset is not able to recover the IC.

With the revised firmware, there is no risk of accidental triggers of the permanent-failure protection mode regardless of the feature being enabled or disabled. Thus, the feature may be used as intended.

Note: This PCN is an Information Notice only and is effective immediately.

### Impact of the change (positive or negative) on fit, form, function & reliability:

There is no change in Fit/Form/Quality/Reliability.

### Product Identification (this section will describe how to identify the changed material):

Devices with patchID <= 4 may experience the issue whereas devices with patchID >= 5 have the updated firmware which fixes the issue. The patchID revision of an IC can be determined by reading the FOTPStat register 0x0BB[15:12] from slave address 0x6C.

Table 1 indicates how to identify the patchID.

Table 1. PatchID Identification

SLAVE ADDRESS	REGISTER ADDRESS	REGISTER NAME	BIT FIELD Name	PatchID Value	PatchID
0x6C	0x0BB[15:12]	FOTPStat	PatchID	0xN	N (integer)
				0x4	4
				0x5	5

### Summary of Supporting Information:

### Supporting Documents:

### ADI Contact Information:

For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives.

Americas:	Europe:	Japan:	Korea:	Rest of Asia:
PCN_Americas@analog.com	PCN_Europe@analog.com	PCN_Japan@analog.com	PCN_Korea@analog.com	PCN_ROA@analog.com

**Appendix A - Impacted items, see csv PN listing in PCN Zip file**