

Information Only Service Note

Supersedes:
NONE

3458A Digital Multimeter, 8½ Digit

Serial Numbers: ALL

The Problem – Instructions before ordering a replacement A/D Converter (A3) PCA (03458-66533).

Parts Required:

P/N	Description	Qty.
03458-66675	Outguard Logic PCA	1
03458-61611	Cable Assembly	1

Or

03458-80049	A5 PCA with 148kB Memory Kit	1
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ADMINISTRATIVE INFORMATION

Calibration Required
 Calibration NOT Required

PRODUCT LINE: GM
AUTHOR: WY

ADDITIONAL INFORMATION:

Situation:

The A/D Converter PCA (A3) with part number 03458-66533 is firmware dependent, requiring 3458A revision 9,2. Thus, it is not compatible with the Outguard Logic PCA (A5) with part number 03458-66505/03458-66515, which has revision 8,2 or below.

Due to the incompatibility, '202 Slave Test Convergence error' may occur when 03458-66533 PCA is installed.

Solution/Action:

For service center:

If you need to replace the A3 A/D Converter PCA, perform the following before ordering:

1. Check the firmware revision of the instrument. The firmware revision can be checked from the front panel menu or by sending the REV? command.
2. Check if the part number of the A5 Outguard Logic PCA currently assembled in the instrument is 03458-66505/03458-66515 (see below).



3. If the firmware revision is not 9,2 or the instrument has a 03458-66505/03458-66515 A5 Outguard Logic PCA, you will need to order a new A5 Outguard Logic PCA (03458-66675) and cable (03458-61611) **in addition** to the A3 A/D Converter PCA to complete the repair. The 03458-66675 PCA updates the instrument firmware to 9,2.

For external customers:

Before purchasing the A3 A/D Converter PCA (03458-66533), perform the following:

1. Check the firmware revision of the instrument, particularly if the serial number prefix is 2823A. It is likely units with this prefix do not have revision 9,2.
2. The firmware revision can be checked from the front panel menu or by sending the REV? command.
3. If the 3458A instrument does not have revision 9,2, the customer must purchase the A5 assembly kit (03458-80049) **in addition** to the A3 A/D Converter PCA (03458-66533).
4. The A5 assembly kit which updates the firmware to 9,2 includes the following:

Part number	Description
03458-61611	Cable Assembly
03458-66675	PCA, Outguard Logic
03458-90037	Installation Note for the A5 PCA.

5. Both the A3 and A5 PCAs must be replaced to complete the repair for 3458A instrument which does not have revision 9,2.

Revision History:

Date	Service Note Revision	Author	Reason for Change
14 Dec 2021	01	WanYee	As Published