



02-001C  
2 May, 2007

**DETERMINING THE DIFFERENT TYPES OF STATUS TEMPERATURE BOARDS**

**I. PURPOSE:**

To give information on how to determine what types of Status Temperature boards and what analyzers they go into. Analyzers that are affected by the new Status Temperature Board are the M100A, M101A, M102A, M100AH, M100AS, M200A, M201A, M200AH, M200AU, M265A, RP8400N & the RP8400S.

**II. TOOLS:**

N/A

**III. PARTS:**

N/A

**IV. PROCEDURE:**

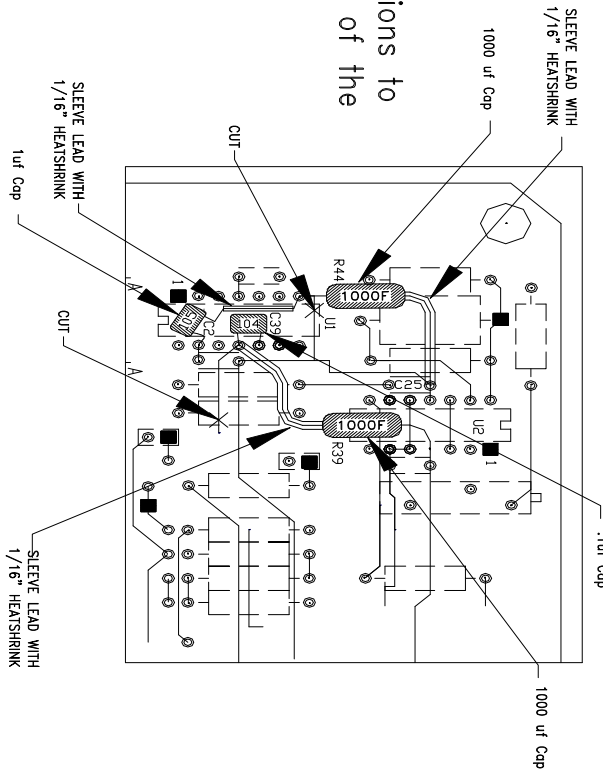
Teledyne API has redesigned the layout of the Status Temp Board P/N 010860000. The reason for this change is to integrate the modifications that were previously on the backside of the Status Temp board, which eliminate the internal Moly Temperature warnings. In addition to the redesigning of the board layout Teledyne API has generated four different part numbers for this new layout. This change will have an effect on those of you who are purchasing New Status Temperature boards. In order to purchase a new Status Temperature board you will need to know the model of analyzer (i.e.M100A, M200A...etc.).

There are a total of four (4) different part numbers. While the board layouts for these four part numbers are the same, the distinction between the boards can be made in the thermocouple circuitry. Each of the boards will have specific components installed that apply to the type of thermocouple that is being used (i.e. Type K, Type J, Isolated, Non-Isolated or without a Thermocouple) in the instrument. Below is a list of the four different part numbers, their description and which analyzer they are used in.

<b>PART #</b>	<b>DESCRIPTION</b>	<b>WHERE USED</b>
010860000	Type J	M101A, M200A, M201A, M200AU, M265A & RP8400N
010860100	Type K	M100AH, M200AH
010860200	Type K, Isolated	Isolated (Optional)
010860300	Status/Temp Without TC	M100A, M100ATS, M102A, & RP8400S

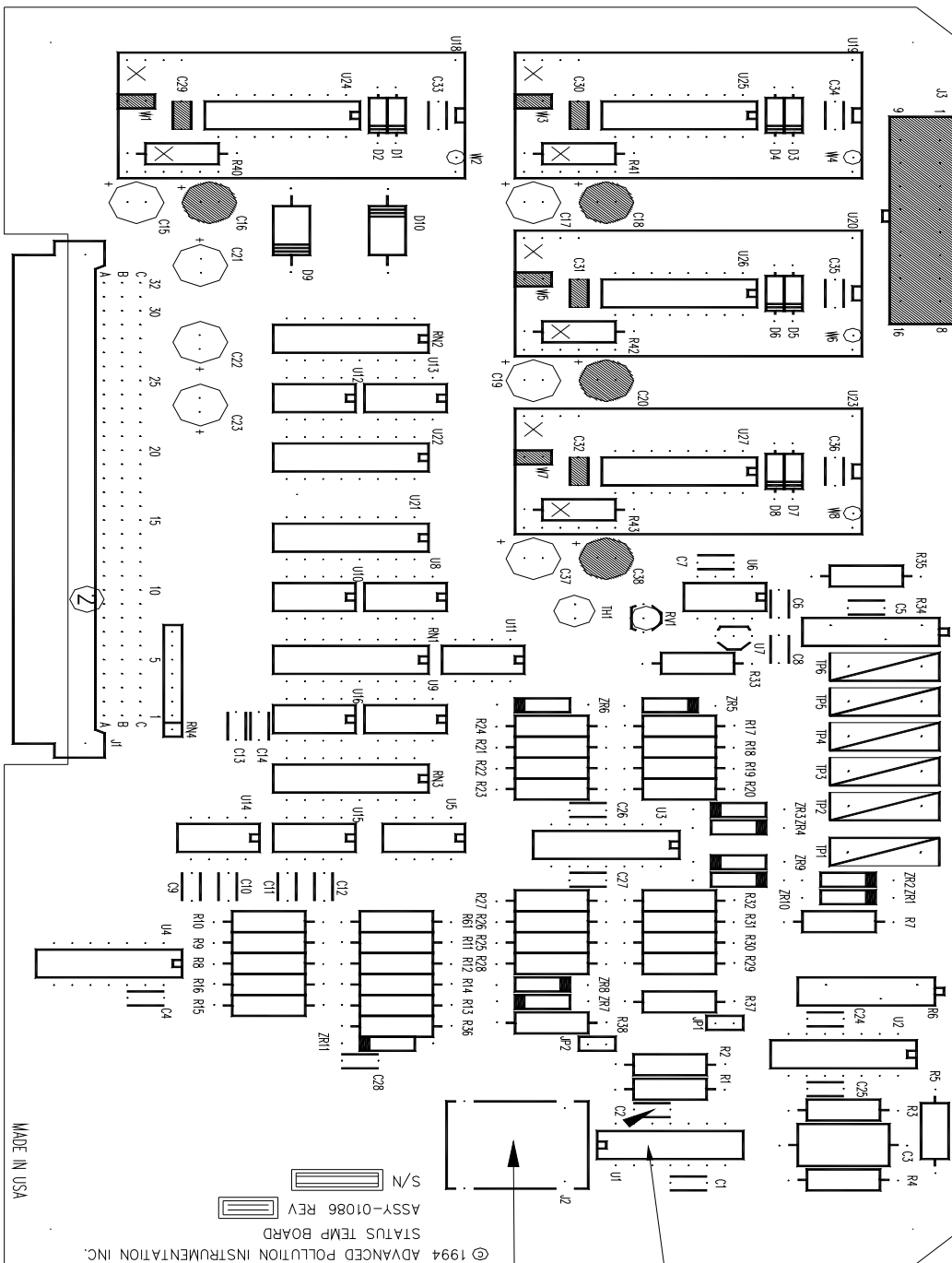
Since each one of the new boards has different components in the thermocouple circuitry you will not be able to swap boards between analyzers unless, the boards have the same part numbers. The next few pages will show you the layout of the four (4) different types of boards and what components are installed in each individual board.

Modifications on the back side of the board.  
Status Temperature Board P/N 010860000 (Old Style)



Modifications to  
backside of the  
board

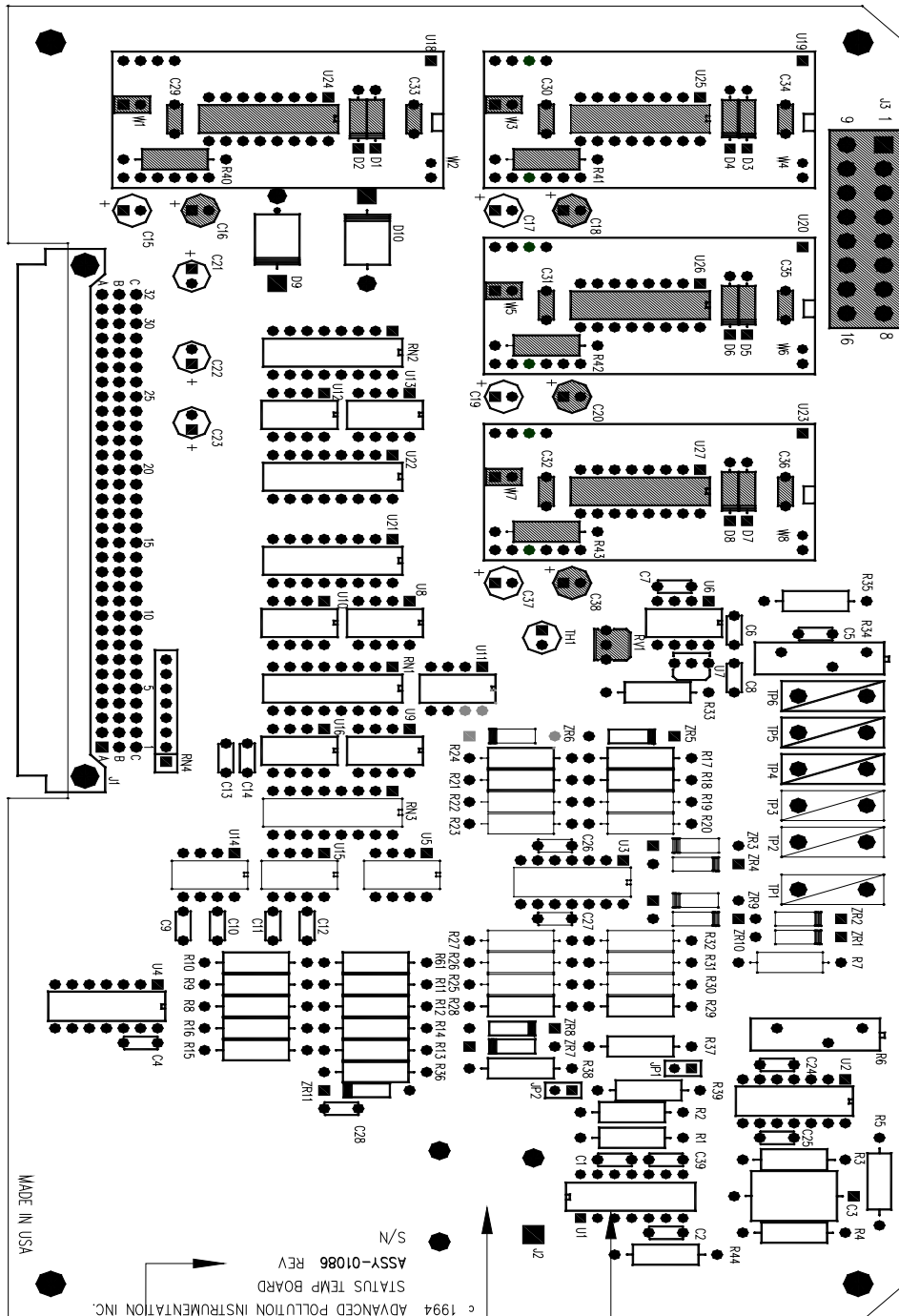
STATUS/TEMP Board P/N 010860000 (Old Style)



594AQ Type J  
TC Amp IC

J type  
Thermocouple  
Connector

Status Temperature board P/N 010860000 (New Layout)  
 Type J Thermocouple

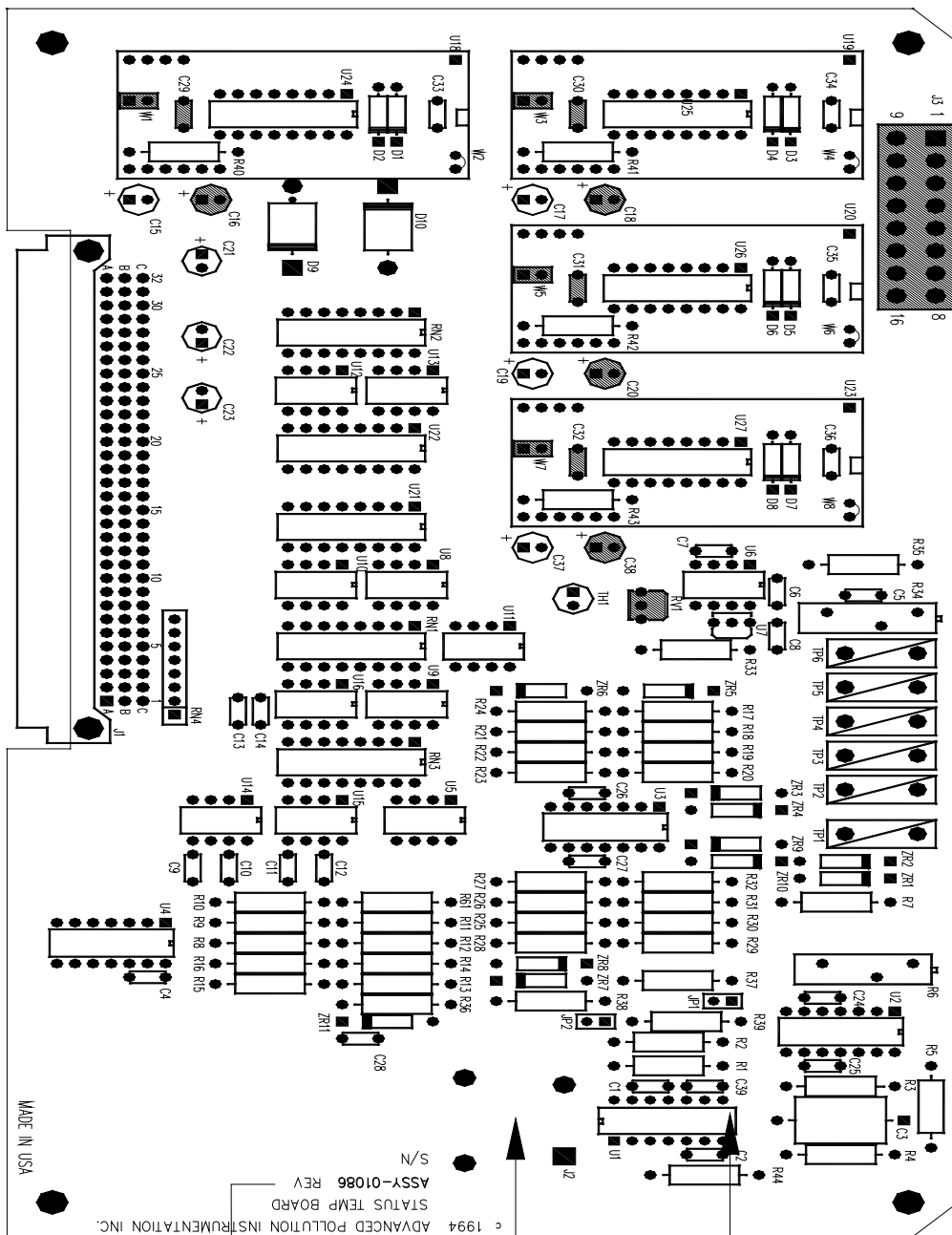


Used in the M100AH, M101A, M200A, M201A, M200AU, M265A & RP8400N

594A0 Type J TC Amp IC  
 Type J Thermocouple Connector  
 Rev "00" or "0"



Status Temp Board P/N 010860100 (New Layout) Type K Thermocouple



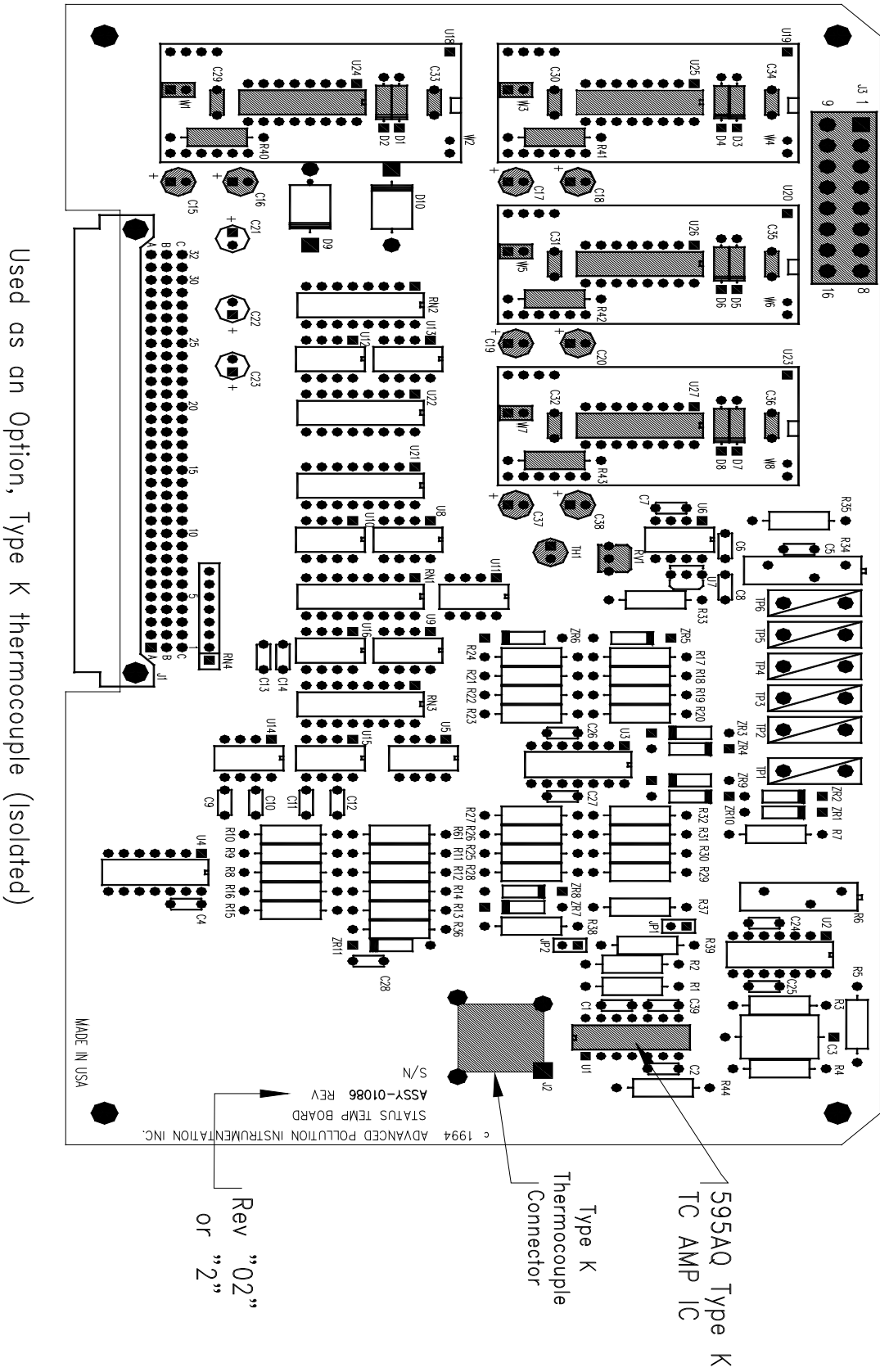
Used in the M200AH Model Analyzer

595A Q Type K TC  
AMP IC

Type K  
Thermocouple  
Connector

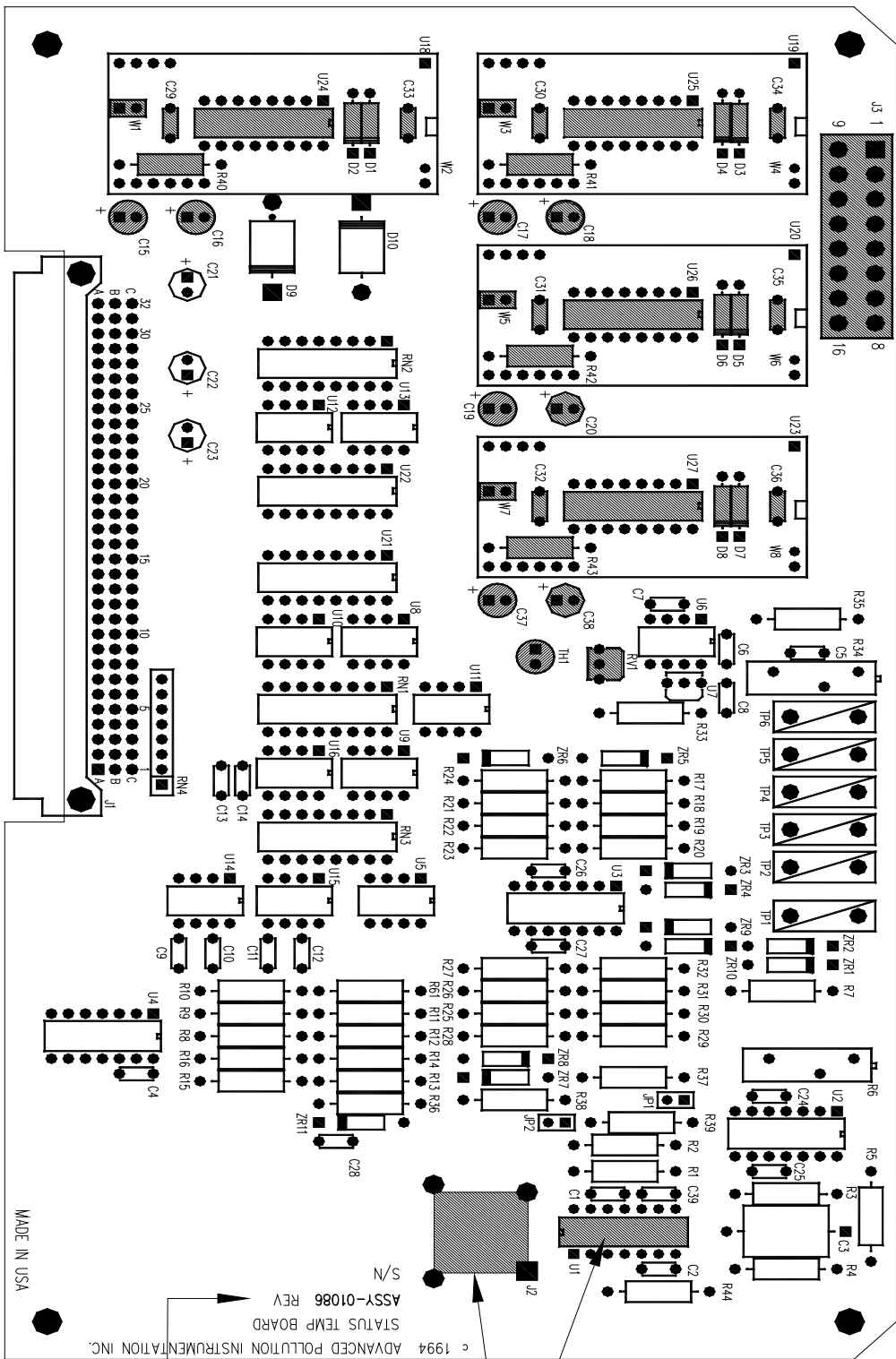
Rev "01" or "1"

Status Temp Board P/N 010860200 (New Layout)  
 Type K Thermocouple (Isolated)



Used as an Option, Type K thermocouple (isolated)

Status Temp Board P/N 010860300 (New Layout) Without Thermocouple



Used in the M100A, M100AS, M101A, M102A & the RP8400S Model Analyzers

Thermocouple Connector and I.C. not installed

Rev "03" or "3"