HP-41
Navigation Pac
Addendum Card

Module Corrections

The following corrections are for the Navigation Module, revision 1A. The revision number of the module may be examined by executing CATALOG 2.

Celestial Navigation

The declination of the star Acrux is incorrect. If this star is used, the following short program must be placed in program memory. This program will correct the problem for all programs except the STAR subroutine itself. It requires ten program registers. In order for the program to be properly stored, the Navigation Module must be plugged into the HP-41. The program can be entered with the following keystrokes:

Keystrokes	Display
■ GTO · ·	00 REG nnn
PRGM	01 XROM^T*STAR
XEQ ALPHA *STAR ALPHA	00 REG nnn
■ GTO · 000	01 LBL^T*STAR
■ LBL ALPHA *STAR ALPHA	02^{T}NU*
ALPHA NU* ALPHA	03 30 _
30	04 RCL 47
RCL 47	05 INT
XEQ ALPHA INT ALPHA	06 X=Y?
■ X=Y?	07 ASTO 47
ALPHA ■ ASTO 47 ALPHA	08 XROM^T*STAR
SST	09 RTN
■ RTN	10 LBL^{T}NU*
■ LBL ALPHA NU* ALPHA	11^{T}ACRUX
ALPHA ACRUX ALPHA	12 30.057 _
30.057	13 STO 47
STO 47	14 −62.9275 _
62.9275 CHS	15 ENTER↑
ENTER↑	16 173.785 _
173.785	
PRGM	

Now you are ready to use the star Acrux in the celestial navigation programs.