

1 [CNTRL5]

Save a quick save state of Orbiter
Open the quick saved state with a text editor
RPOS, RVEL and EMEM0024-0025
Enter These Values into the Blue fields in the State Vectors Tab of the spreadsheet
RPOS: Orbiter Position State Vector
RVEL: Orbiter Velocity State Vector
EMEM0024-0025: Current VAGC Mission Time
Optional: to observe the latest state vector in the VAGC copy the following EMEM locations to the Blue fields in the State Vectors Tab of the spreadsheet

1170	1178	1202
1171	1176	1203
1172	1177	1204
1173	1200	1205
1174	1201	

Observe Green Fields in State Vector Tab of the spreadsheet. These will be entered into the AGC.
Block Update P27
Enter Data

V71E

FV21N01
R3:00304

4 XXXXXE

For R3 from 00304-00324 enter corresponding data as indicated next to green fields in State Vector Tab of the spreadsheet. For 00306 use value based on parameter

1	This vehicle in Earth SOI
2	This vehicle in Moon SOI
77776	Other vehicle in Earth SOI
77775	Other vehicle in Moon SOI

Accept Data?

FV21N02
R3:00325

V33E

Accepts data and VAGC goes to POOH.

Spreadsheet Notes:
Yellow Fields indicate calculated values of note.
Orbiter to AGC tab shows state vector conversion AGC reference. Loadup tab shows construction of octal pairs.

Currently moon sphere of influence will not work because of different scaling of State vector values.

Explanation of data:

304	Octal number of address to update
305	Starting address
306	Update based on SOI scaling
307-310	X Position
311-312	Y position
313-314	Z Position
315-316	X Velocity
317-320	Y Velocity
321-322	Z Velocity