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Is it possible to replace a SIMODRIVE 611 U control unit, a SIMODRIVE POSMO CD/CA drive or a POSMO SI drive unit when performing service jobs on **SIMODRIVE 611 U / POSMO** systems with absolute encoder, or bootstrap it and transfer the parameters and the referenced status for the position ?

Description:

It is absolutely necessary to reference the system again if the existing "old memory card" is defective and no longer responds.

If the "old memory card" is retained without bootstrapping the system, referencing is maintained even if the system version is updated.

If a "new memory card" is used or the system is to be bootstrapped, incorrect reference point parameters are displayed after loading the xx.par file. Incorrect messages such as "Reference point set" or various traversing range errors may be displayed. We therefore recommend that you always reference the system when using a new memory card or after bootstrapping the system when commissioning it again irrespective of the message output.

If it is difficult to reference the system anew, you can transfer the reference point parameters for SW 05.01.04 to 08.03.07 as follows:

Record the value for parameter 175 from the experts list.

Read out and record the contents of the reference point parameters 177 and 178 from the user parameter list (SimoCom U "Diagnosis => Diagnosis Views => User parameter list).

To transfer the contents of these parameters, you must read out the values stored at the memory locations, basis 1-4, according to the software version, s. tables 1 and 2, and transfer them to the relevant memory locations of the new memory card for the new software. The memory contents are read in and out via P1655...9 and the address of the memory location.

If the old module or the old drive is defective, i.e. cannot be activated, you have to insert the old memory card into the new module / drive. After transferring the memory contents, saving the values and performing a Power On reset, you must check the parameters 177 and 178 recorded in the parameter list. If these parameters are correct, enter the parameter 175 recorded into the experts list. The drive is then correctly referenced and ready for operation.

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Memory locations of parameters 177, 178 (basis 1 - 4)

Firmware version	611U axis A				611U axis B			
	Basis1	Basis2	Basis3	Basis4	Basis1	Basis2	Basis3	Basis4
08.03.07	168311	168312	168313	168314	16A7EC	16A7ED	16A7EE	16A7EF
08.02.10	176310	176311	176312	176313	1787E0	1787E1	1787E2	1787E3
08.01.03	180310	180311	180312	180313	1827D9	1827DA	1827DB	1827DC
07.02.06	180310	180311	180312	180313	18255E	18255F	182560	182561
07.01.03	180310	180311	180312	180313	18255E	18255F	182560	182561
06.02.03	180310	180311	180312	180313	182545	182546	182547	182548
06.01.03	180310	180311	180312	180313	182545	182546	182547	182548
05.02.04	0024D1	0024D2	0024D3	0024D4	003BE2	003BE3	003BE4	003BE5
05.01.04	0024D1	0024D2	0024D3	0024D4	003BE2	003BE3	003BE4	003BE5

Table 1; addresses 611 U

Firmware version	POSMO SI/CD/CA			
	Basis1	Basis2	Basis3	Basis4
08.03.07	16830E	16830F	168310	168311
08.02.10	17630D	17630E	17630F	176310
08.01.03	18030D	18030E	18030F	180310
07.02.06	18030D	18030E	18030F	180310
07.01.03	18030D	18030E	18030F	180310
06.02.03	18030D	18030E	18030F	180310
06.01.03	18030D	18030E	18030F	180310
05.02.04	0024AA	0024AB	0024AC	0024AD
05.01.04	0024AA	0024AB	0024AC	0024AD

Table 2; addresses POSMO SI/CD/CA

Notice:

Incorrect values at the memory locations described may damage the machine!

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Example:

611U axis B, old firmware version 07.01.03, new firmware version 08.03.07

1. Record P175 from the "experts list".
2. Record P177 and P178 from the user "parameter list"

In the "experts list":

3. Set P1655 = 1
4. P1656 = 18255E (Basis1) → Read out and record P1657
5. P1656 = 18255F (Basis2) → Read out and record P1657
6. P1656 = 182560 (Basis3) → Read out and record P1657
7. P1656 = 182561 (Basis4) → Read out and record P1657
8. Switch off the unit, replace the card/drive memory card, then proceed as follows:
 10. Set P1655 = 1
 11. P1656 = 16A7EC (new Basis1)
 12. P1658 = Enter recorded value (old Basis1)
 13. P1659 =1 (accept value)
 14. P1656 = 16A7ED (new Basis2)
 15. P1658 = Enter recorded value (old Basis2)
 16. P1659 =1 (accept value)
 17. P1656 = 16A7EE (new Basis3)
 18. P1658 = Enter recorded value (old Basis3)
 19. P1659 =1 (accept value)
 20. P1656 = 16A7EF (new Basis4)
 21. P1658 = Enter recorded value (old Basis4)
 22. P1659 =1 (accept value)
23. Save and perform Power On reset
In the user parameter list
24. Check values recorded in P177 and P178
In the experts list
25. P175 Enter recorded value.
Ready!