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DcM6/12+ Series Drive ES800 Replacement Procedure

ES800 Replacement Card Procedure

When an ES800 card is sent out for a replacement, the software Rev must be verified. The new cards will have software Rev.3.07 compared to the older 3.04 that is to be replaced. To confirm the software and replace the board, please follow the steps below.

Question 1:

Saftronics: What Software Rev do you currently have? **Customer:** I do not know what Rev I have?

1. On power up the digital keypad the status page will display (drive ok) and also will display either 3.04 or 3.07.
2. If the drive power is down or there is no keypad display. The Rev is written on the IC, U20 and IC, U5. The last two digits are rev example 37 = 3.07.
3. The Hp rating is also required. This info is on the black label on the side of the drive.

Question 2:

Saftronics: Does the replacement board and the existing board have the same Rev? **Customer:** Yes

If both cards have the same software Rev 3.04 then follow the steps in Section 22.4, Page 171, in dcM+ instruction manual PN 027-2050.

If both cards have the same software Rev 3.07 then follow the steps in Section 16.0, Page 169 of dcM+ instruction manual PN 027-2051 for replacement of ES800 cards.

“**NO**” you have a different Rev

If the ES800 replacement card has Rev 3.07 and you are replacing a board with a Rev of 3.04, the following steps are required.

STEP 1

Since the card with Rev 3.07 is sent out with factory defaults values, the drive will need to be programmed to the new service parameters. Before doing this, the following is required.

1. Drive rating or HP, is set to the parameters in section 4 of dcM+ instruction manual PN 027-2050 or Section 3.2, page 17 of dcM+ instruction manual PN 027-2051.
2. If the drive size is less then or equal to 100 amps, then the max field amps is 5 amps, if greater then set to 15amps.

The following page gives an example of setting up the Service Parameters.

Service Parameters Example, when changing from 3.04Rev software to 3.07Rev

Enter the **Password # 21845** to access the Service Parameters.

Keypad display
OK - 3.07
DcM12+4.350

For this example we will change the drive to a 350amp unit. The burdenpak is an ES729-350
Note: If the ES728 card is also changed then the BurdenPak (ES729-350) must also be transferred from the old card and placed on the new card.

Password is # 21845

Steps	Display
Press the Monitor Function ^ Inc v Dec Key Simultaneously	P000 Key 0:Program Disable
Press Prog/Reset Key	0: Blinking cursor
Press ^ Inc Key	1: Binking cursor
Press Prog/Reset Key	1: Fixed cursor
Pressing the " PROG " and " STOP " keys Simultaneously.	S000 PassWord * * * * *
Press Prog/Reset Key	S000 PassWord * * * * * Blinking cursor on 1 st digit.
Press ^ Inc key and scroll up to # 2	S000 PassWord * * * * * Blinking cursor on 1 st digit.
Press Enter/Reset Key to Save	S000 PassWord * * * * * Blinking cursor moves to the 2 nd digit.
Press ^ Inc key and scroll up to # 1	S000 PassWord * * * * * Blinking cursor on 2 nd
Press Enter/Reset Key to Save	S000 PassWord * * * * * Blinking cursor moves to the 3 rd digit.
Press ^ Inc key and scroll up to # 8	S000 PassWord * * * * * Blinking cursor on 3 rd
Press Enter/Reset Key to Save	S000 PassWord * * * * * Blinking cursor moves to the 4 th digit.
Press ^ Inc key and scroll up to # 4	S000 PassWord * * * * * Blinking cursor on 4 th
Press Enter/Reset Key to Save	S000 PassWord * * * * * Blinking cursor moves to the 5 th digit.

Press ^ Inc key and scroll up to # 5	S000 PassWord * * * * * Blinking cursor on 5 th
Press Enter/Reset Key to Save	S000 PassWord * * * * * Blinking cursor stops.
Press ^ Inc key and scroll up to S010 (For this example use dcm12+)	S010 DriveType 0: dcM12+ or 1: dcm6+ 2: blank does not apply
Press Prog/Reset Key if S010 needs to be Changed as per model #	0: Fixed cursor 1: Fixed cursor
Press ^ Inc key and scroll up to S011	S011 DriveSize xxx amps Fixed cursor
Press Prog/Reset Key if S011 needs to be Changed as per model # (For this example use 350)	S011 DriveSize xxx amps Fixed cursor
Press ^ Inc key and scroll up to S012, Press Prog/Reset Key if S012 needs to be changed. (For this example use 500)	S012 VmainsMax 500V
Press ^ Inc key and scroll up to S013, Press Prog/Reset Key if S013 needs to be changed.	S013 VarmOffset Set to value that will display zero in M006
Press ^ Inc key and scroll up to S014, Press Prog/Reset Key if S014 needs to be changed. (For this example use 15)	S014 FieldSize 1: 15 amps
Press ^ Inc key and scroll up to S031, Press Prog/Reset Key if S031 needs to be changed.	S031 Customer Selection 1: Safronics

STEP 2

You will need to go through the startup section again unless you have the old parameter written down.

Caution: *some of the parameter numbers for 3.07Rev have a different function compared to the 3.04 Rev. Look at the parameter description rather than the parameter number.*