July 10, 2008 Prepared by Suisei Electronics System Co., Ltd.

EFP-RC Firmware Upgrade Procedure Manual

1. Check of Serial Number A firmware upgrade file differs depending on last four digits of the serial number on the backside of EFP-RC main unit. Please check the serial number before the upgrade. | Last Four Digits | F/W | Product CD F/W Storage Location 0001 ~ 0049 | Upgrade is not necessary for those. ----0050 ~ 0085 | Ver.3 |...¥firmware¥version_3¥Efprc3xxxx.fxw | ------+----+----+ | 0086 or more | Ver.4 |...¥firmware¥version_4¥Efprc4xxxx.fxw | ____. In case the serial number can not be checked, please check it with the firmware version by starting EFP-RC. [How to Check Firmware Version] After turning on EFP-RC, please press a left cursor key. LCD shows as follows: <EFP-RC LCD Screen> ---+ | EFP-RC Ver.x.xx.xx | <-- x.xx.xx indicates the version number. yyyyyyy BYTE FREE -----<Content of Version> Not Displayed : Ver.3.00.02 or lower: Upgrade is not necessary. Ver.3.xx.xx : It can be upgraded with Ver.3 firmware. Ver.3.xx.xx : It can be upgraueu with Ver.4 firmware. !!! Note !!! If you upgrade the firmware with wrong data, EFP-RC will not be operated normally and repair support will be needed. 2. Upgrade of Firmware Procedure 1) Setup After connecting EFP-RC with a computer using a USB cable, please start EFP-RC control software RC-EXE. Procedure 2) Setting of File Folder After EFP-RC main unit is started, please scroll the menu screen and point the cursor to 5:FIRM UPDATE, and thereby move to FIRMWARE folder. <EFP-RC LCD Screen> +-----11:FILES 12:PROGRAM +-----Click the down-arrow button four times. ----+ 4:FILES 5:FIRM UPDATE <-- Point the cursor to this position.</p> Click the right-arrow button once. +----+ | - FILE NOT FOUND - | +-----+ Procedure 3) Download of Upgrade Data Please download targeted firmware (Efprcxxxx.fxw) checked in "1. Check of Serial Number " to FIRMWARE folder. Please drag and drop Efprcxxxxx.fxw file to EFP-RC control software dialogue or click the Download button after setting Efprcxxxxx.fxw to Download File parameter in File Download tab.

Thereafter the liquid crystal screen in EFP-RC shows as follows:

<EFP-RC LCD Screen> +----+ | <-- Screen while downloading Efprcxxxxx.fxw</pre> 11 DOWNLOADING NOW! +----------|Efprcxxxx.fxw | <-- It is OK if the file name is displayed. . . Procedure 4) Upgrade of FIRM Please rewrite the firmware program to Efprcxxxxx.fxw by operating EFP-RC. Please conduct the following operation on EFP-RC. <EFP-RC LCD Screen> |Efprcxxxxx.fxw <-- Point the cursor to this position.</pre> +----+ Click S button once. ----+ | EFP-RC Ver.x.xx.xx | <-- x.xx.xx indicates the version number of Efprcxxxxx.fxw A=YES B=NO S=SUM Return to the previous screen after 5 seconds +----+ Click A button once. +----+ 11 1| <-- Rewrite of the firmware data is conducted. |FIRMWAEW UPDATING! | <-- The process will end in in about 10 seconds. After the firmware data is rewritten, EFP-RC's main unit is restarted. Please conduct MCU setting of the main unit again when restarted. !!! Note !!! Please do not turn off the power while the firmware is being rewritten. In case the power is turned off while the firmware is rewritten, it will not be started and repair support will be needed. 3. Check of Firmware Version Please check it on LCD display by pressing a left cursor key. <EFP-RC LCD Screen> ----+

EFP-RC Ver.x.xx.xx | <-- Check if the new version is displayed.

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