FCV1900 UPGRADE PROCEDURE

PROCEDURE TO UPGRADE THE SOFTWARE ON THE MAIN AND CTRL BOARD ON AN FCV1900.

Required Items:

Windows PC

USB Flash Drive (1GB Minimum, FAT32, Formatted and Empty)

USB Cable (A-Type – Micro B)

Software

USB Hub

NOTE: MAIN board cannot be downgraded from v2.01 and later to v1.13 and earlier.

Check software version in the Diagnostic Test Screen and compare with current available software.

- Press the [MENU/ESC] ley and open the [Setting] tab.
- Select [System] and push [ENTER]
- Select [Tests] and push [ENTER]
- Select [Diagnostic Test] and press [ENTER]
- To exit: Press the [MENU/ESC] key three times, then [MENU/ESC] several times to close the menu.

MAIN BOARD UPDATE PROCEDURE

Wipe the USB Drive.

Copy the following update software files to the root directory of the **blank** USB flash drive.

[1]   boot.crc
[2]   bootuppg.bin
[3]   emmcupdate.bin
[4]   system.crc
[5]   systemuppg.bin
[6]   ubootuppg.bin
[7]   uboot.crc

Connect the USB drive to the processor via the USB Hub, then power on the processor.

After startup the following message appears:

Rotate the knob of the control unit to select [YES] and push the knob.

```
Update Display Unit
system?
   [ YES ]        NO
```

The following message will appear and remain on screen for approximately 3 minutes.

```
DON'T REMOVE A USB FLASH DRIVE!

=========OS Update=========
updating...
bootuppg.bin decrypt start...decrypt success
CRC check start...CRC check success. 100% finish.
systemuppg.bin decrypt start...
```

The percentage of progress is shown on the last line.

100% will appear within 2 minutes.

```
DON'T REMOVE A USB FLASH DRIVE!

=========OS Update=========
updating...
bootuppg.bin decrypt start...decrypt success
CRC check start...CRC check success. 100% finish.
systemuppg.bin decrypt start...decrypt success
CRC check start...CRC check success.
system file split start...100% finish.
updating is preparing...100% finish.
Ready to restart...
```

When this message appears, remove the USB flash drive, the USB Hub and the USB Cable for brightness control, confirm the control unit and RJB002 (If fitted) is properly connected.

Push the knob.

'Restart' appears and the processor will restart.

Remove the USB flash memory surely. The system starts updating after turning the power on again.
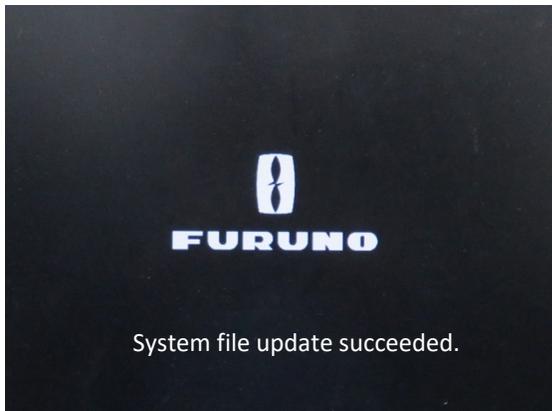
OK

DON'T REMOVE A USB FLASH DRIVE!

==========OS Update==========
updating...
bootuppg.bin decrypt start...decrypt success
CRC check start...CRC check success. 100% finish.
systemuppg.bin decrypt start...decrypt success
CRC check start...CRC check success.
system file split start...100% finish.
updating is preparing...100% finish.
Ready to restart...
Restart...

After approximately 3 minutes, the update will be complete.

System file update succeeded.

The display will turn black then the following message will appear. Note the warning.

The screen will go black for approximately 4 minutes then will restart automatically.

UPDATE COMPLETE.

Compare software versions with start using diagnostic tool.

Ensure sure that the versions of the below software are updated.

Display unit : Application, System, Kernel,U-Boot

WARNING: SYSTEM RECONSTRUCTING

- Keep USB memory disconnected.

- Do not disconnect the control unit.

- The screen goes blank after this page disappears. Do not turn the power off.

The screen turns on again after reconstructing is completed.
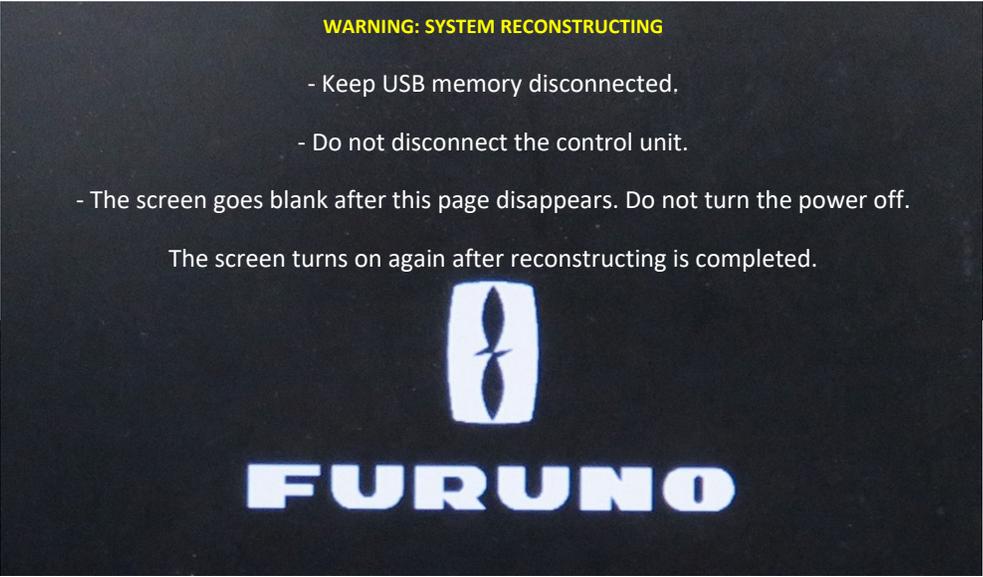
CTRL BOARD UPDATE PROCEDURE

Wipe the USB Drive.

Copy the following update software files to the root directory of the **blank** USB flash drive.

[1]   IDCODE.SYS
[2]   LOADER.BIN
[3]   MAIN.BIN

Connect the USB drive to the processor via the USB Hub, then power on the processor.

After startup the following message appears:

Rotate the knob of the control unit to select [YES] and push the knob.

```
Update Signal Unit

application?

    YES            NO
```

Update starts automatically showing a percentage. Percentage will pause at 34%, continuing normally after a few minutes.

```
DON'T REMOVE A USB FLASH DRIVE!

=========Signal Unit Update=========
Network program loading(NWUPPG) version 4.08
Copyrighting(c) FURUNO ELECTRIC CO., LTD. 2002-2013 (T.K & T.Y & T.H)

>>my IPaddress=172.31.92.7
000 % connect
000 % Now erasing
updating...100 % finish
```

Processor automatically restarts.

```
>>my IPaddress=172.31.92.7
000 % connect
000 % Now erasing
updating...100 % finish

All files update completed!
Delete temporary files..
Delete completed.
Exit Update!
```

UPDATE COMPLETE.

Compare software versions with start using diagnostic tool.

Ensure sure that the versions of the below software are updated:

Signal unit : Application, FPGA, Boot