

INGERSOLL RAND TECHNICAL SERVICE BULLETIN

Bulletin #:GEN-007Date:13 /10/2005Product:GENERATORSSubject:Software update CB12 board

MODELS	SERIAL NUMBER
All	

Since the introduction of the electronic engines in our ESA generator gamma (Volvo D9-D12-D16 and John Deere 6068HF475) the intellisys software required an update because the communication between the CB12 board and the ECU happens over the CAN BUS.

In the past, one single software version could be used for the whole range of machines and changing CB12 boards mutual was not a problem.

Now days we still can use the same board for all the machines (hardware) but we have to be aware that the <u>software can be different</u>!

This means that:

- In a generator with a non electronic (ECU) engine the correct software version of the CB12 board is 1.10G (Beware: a GAC speed controller is <u>not</u> an ECU!)
- In a generator with a Volvo D12 engine with EDC3 regulation (G440) the correct software version of the CB12 board is 1.10G-D12
- In a generator with a Volvo D9 or D16 engine with EMS2 regulation (G330 and G550) the correct software version of the CB12 board is 1.20I





GAC Controller

ECU controller

DIRECT TO:

 PARTS MANAGER
 X

 SERVICE MANAGER
 X

 SALES MANAGER
 X

Doosan purchased Bobcat Company from Ingersoll-Rand Company in 2007. Any reference to Ingersoll-Rand Company or use of trademarks, service marks, logos, or other proprietary identifying marks belonging to Ingersoll-Rand Company in this manual is historical or nominative in nature, and is not meant to suggest a current affiliation between Ingersoll-Rand Company and Doosan Company or the products of either.

In order to change or overwrite the software on a CB12 board you need a Flasher toolkit. **Kit cpn: 22211338.**

Flasher Protocol:

Materials needed: Flasher – cable between flasher and CB12 – cable between flasher and laptop (RS232) – 9 VDC battery – software versions on laptop.



Step One: install the flasher software on your laptop.

Double-click the "setupflasher_v184.exe" icon and follow the wizard. (Attachment in E-mail)

Step Two: Save the three software versions to the C-drive of your laptop. (Attachments in E-mail)

Step Three: Install the required software on the flasher.

- Connect the flasher with the RS 232 cable on your laptop
- Connect the 9V DC supply on the flasher.
- Open "flasher.exe" in the FlacherV184 map. Go to "**Device...**" in the "Option menu.
- Check if device = M306N0FGFP. If not push "Select Device" and choose the correct number.
- Close "device" window.

- Go to "File" and select "Open"
- Browse to the required software version (see Step Two) and select one. Push "Open"
- In the "option" menu of the flasher software select "download file to flasher"
- Downloading of the software begins.
- When ready, disconnect the flasher from your laptop.

Now has the flasher the required software in his memory and your engineer can go on site to upload this software in the new CB12 board.

Step Four: Upload the new software to the CB12 board.

- Disconnect the DC supply from the CB12. (open the battery switch)
- Connect the flasher with cable 22211478 (part of the package) to the CB12 board. Be very careful with the little pins on the socket on the CB12 site!



Cable 22211478



Plug here cable in

Connect the DC supply back to the CB12 board.

On the CB12 display you can see that the Telys starts up, but the start beam will stop at 90%.

- Push <u>on the flasher</u> on the white start button.
- The Green light of the flasher will start blinking. First slow and than fast. When the green light does not blink anymore, unplug the connection cable between the CB12 and the flasher. The display will start up further.
- Check on the display if the correct software version is installed by pushing the "MENU" button.

If you have installed the software version 1.201 (CANBUS) go to step five.

Step Five: Activating the CAN communication.



Go to "Factory" settings in the "config." menu: Scroll to menu "29" (Interface J1939) and put it on "1"

CONFI V : Valid	GURATION Esc: Sortir	
Tempos o Option o Module3 o Capteurs o Moteurs	o Seuils o Usine o Module4 o RS485 o M.J1939	
M.J1939 Oui=1 Non=0 V : Valid _{fort} Esc: Sortir		
John Deere : 1		

: 0

:0 :0

o Volvo-EDC4

o Perkins

o Scania

Go in the "**config**." menu to "**M.J1939**" and press "**Enter**"

Select in the "**M.J1939**" menu the correct motor type by changing the "**0**" to "**1**"