

Reprogram Commodity Air Cart Controllers with GS2 Compact Flash



JOHN DEERE

INSTALLATION INSTRUCTIONS Reprogram Commodity Air Cart Controllers with GS2 Compact Flash

A84818 08MAR06 (ENGLISH)

GS2 Display

**John Deere Seeding Group
A84818 (08MAR06)**

COPYRIGHT © 2006
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRATION® Manual

A84818-19-08MAR06

Record Current Settings

If an error is made or the wrong download is chosen during reprogramming, all personal settings will be erased. Use sheet on following pages to record current settings. Hours and hectares (acres) will also be reset to zero in those conditions and can not be edited.

Continued on next page

OUC6074,0000EAF -19-01MAR06-1/3

Press SETUP—AIR CART—PAGE—AIR CART

Implement Switch	Connected or Disconnected
Tractor Radar	Connected or Disconnected

Press Air Cart "Configure"

Number of Air Velocity Sensors	
Number of Tire Sprocket teeth	
Number of Row Spacing Sprocket teeth	
Variable Rates	Enabled or Disabled
Air cart model number	
Remote Sensor	Implement Switch or Height Sensor
Height Sensor	Common or Separate

Press Return—Seeding Tool **Or Press Setup—Air Cart—Page—Seeding Tool**

Seeding Tool Width	
Front Meter Row Spacing	
Middle Meter Row Spacing	
Rear Meter Row Spacing	

Press Air System "Configure"

Top Primaries

Primary	Front Tank	Middle Tank	Rear Tank	Secondaries
P1				
P2				
P3				
P4				
P5				
P6				
P7				
P8				

Press Page

Bottom Primaries

Primary	Front Tank	Middle Tank	Rear Tank	Secondaries
P1				
P2				
P3				
P4				
P5				
P6				
P7				
P8				

Continued on next page

OQ06074,0000EAF -19-01MAR06-2/3

Press Setup—Air Cart—Page—Sensors—Tire Speed Sensor

Calibration Value

Press Setup—Air Cart

Target Speed Value

Press Tank Meters “Setup”

Press Front Tank

Product

Application Rate

Roller and Displacement

Transmission Setting

Press Return

Press Middle Tank

Product

Application Rate

Roller and Displacement

Transmission Setting

Press Return

Press Rear Tank

Product

Application Rate

Roller and Displacement

Transmission Setting

Press Run—Fan Set

Target Fan Speed

If equipped with variable rate:

Press Setup—Air Cart—Variable Rates “Setup”

	Front	Middle	Rear
Rate A			
Rate B			
Rate C			
Rate D			
Rate E			
Rate F			

OJ06074.0000EAF -19-01MAR06-3/3

PC8663 -UN-05AUG05

Write Down Current Software Version

If difficulties arise, call 1-888-GRN-STAR (1-888-476-7827) for assistance in North America and Australia.

1. Disconnect the STARFIRE™ receiver and any secondary displays from the CAN BUS except the GS2 display, air cart connections and power.
2. Air Cart must be connected to view current software version of cart controller.
3. Turn key to on position.

NOTE: Cancel any warnings as they appear.

4. Press MENU softkey icon.
5. Press Original GreenStar Monitor softkey icon.
6. From any page, Press INFO—Air Cart—Diagnostics.

IMPORTANT: Ensure current software version is recorded correctly. It is used to determine which software download is needed for that Air Cart. Correct version must be used to prevent loss of customer entered settings.

7. Write down first two digits of software version (A) for future reference.

IMPORTANT: If first two digits of software version are "10" the GS2 cannot be used to reprogram the Commodity Cart. Call dealer to download software using their service components and procedure.

8. **In This Example:** Software version is 090405707, so 09 would be recorded.

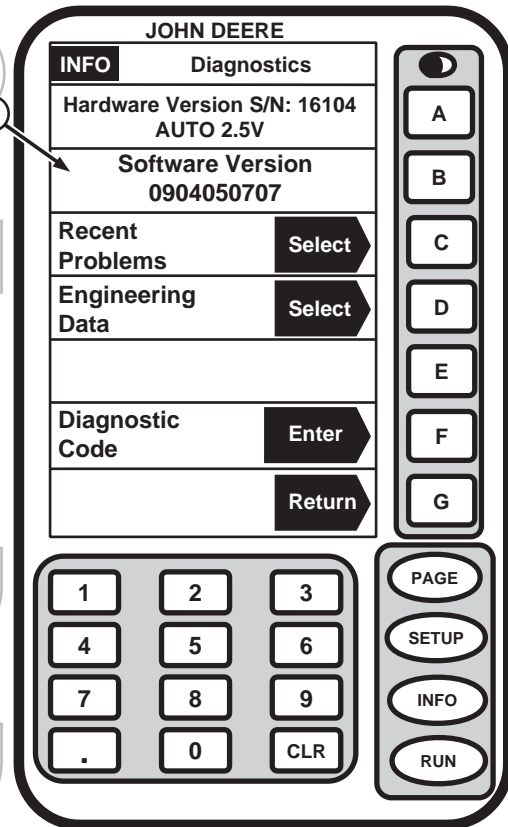


Menu Softkey Icon

PC8657 -UN-05AUG05



GreenStar Softkey Icon



A—Example Software Version

Write Down Actual Software Version in Box Below

Reprogramming the Controller

If difficulties arise, call 1-888-GRN-STAR (1-888-476-7827) for assistance in North America and Australia.

IMPORTANT: Do not try to reprogram a 1900 Commodity Air Cart with serial number below 690100 or if the Commodity Cart has a "Black" controller.

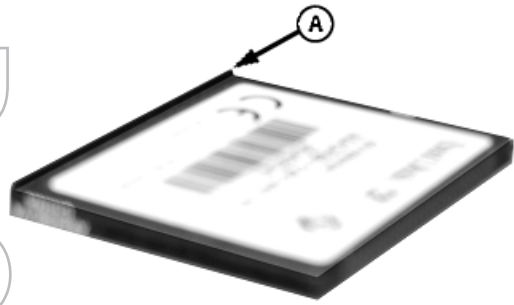
IMPORTANT: Customer must obtain download from GS2 Live after March 21, 2006 to ensure Air Cart software is available on Compact Flash card for reprogramming.

1. Disconnect the STARFIRE™ receiver and any secondary displays from the CAN BUS except the GS2 display, air cart connections and power.
2. Air Cart must be connected to view current software version of cart controller.
3. Turn key to off position.

IMPORTANT: After obtaining the download from GS2 Live, the Compact Flash card must be reinserted into the GS2 display.

4. With raised edge (A) on flash card (B) facing same direction as display, insert card until button (C) extends.

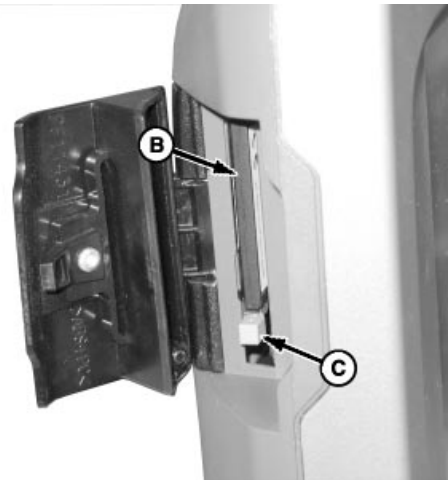
A—Raised Edge
B—Flash Card
C—Button



A57589 -UN-28FEB06



A57590 -UN-28FEB06



A57591 -UN-28FEB06

Continued on next page

OOU6074,0000EAE -19-08MAR06-1/6

PC8663 -UN-05AUG05

5. Turn key to on position.

If options appear on screen for updates, follow on-screen steps. This will reprogram the display only. The following procedure outlines reprogramming the air cart controller.



Menu Softkey Icon

PC8655 -UN-05AUG05

6. Press MENU softkey icon.

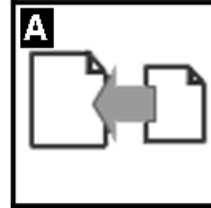
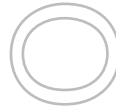
7. Press MESSAGE CENTER softkey icon.

8. Press COMPONENTS AND SOFTWARE softkey icon.



Message Center Softkey Icon

PC8665 -UN-05AUG05

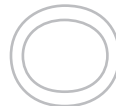
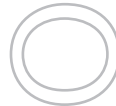


Components and Software Softkey Icon



Continued on next page

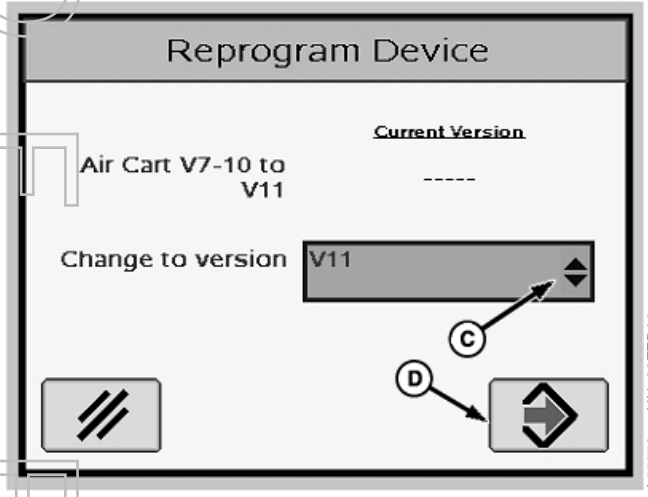
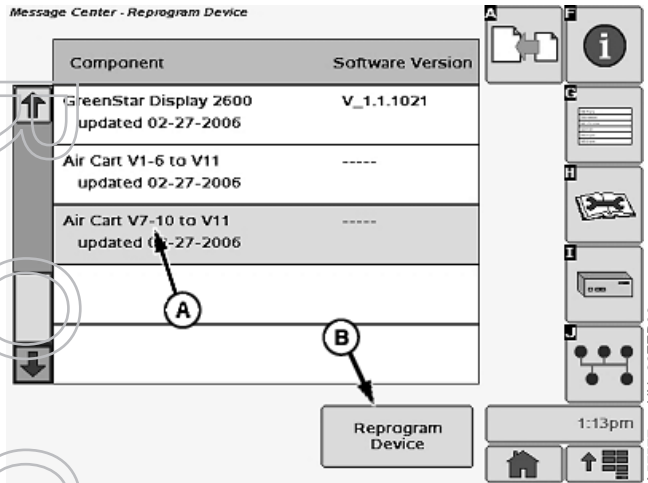
OUC6074,0000EAE -19-08MAR06-2/6



IMPORTANT: TO AVOID CONTROLLER DAMAGE OR LOSS OF CURRENT SETTINGS. THE CORRECT DOWNLOAD FILE MUST BE CHOSEN. PREVIOUS SOFTWARE VERSION MUST MATCH DOWNLOAD FILE RANGE.

9. Look at software version numbers written down earlier. **In Earlier Example:** The digits 09 were written down which indicate version nine "V9" is currently installed.
10. Determine which software update to download. **In This Example:** One file is for versions one through six "V1-V6" and one file is for versions seven through ten "V7-V10" (A). **In This Example:** "V7-V10" would be selected to update "to V11".
11. Use arrows on left bar to highlight appropriate software update from list.
12. Press REPROGRAM DEVICE softkey icon (B).
13. Select CHANGE TO VERSION from list (C). **In This Example:** V11 is selected.
14. Press ENTER softkey icon (D).

- A—Shown Selecting Version Range 7—10 To Version 11
- B—Reprogram Device Softkey Icon
- C—Change To Version Softkey Icon
- D—Enter Softkey Icon



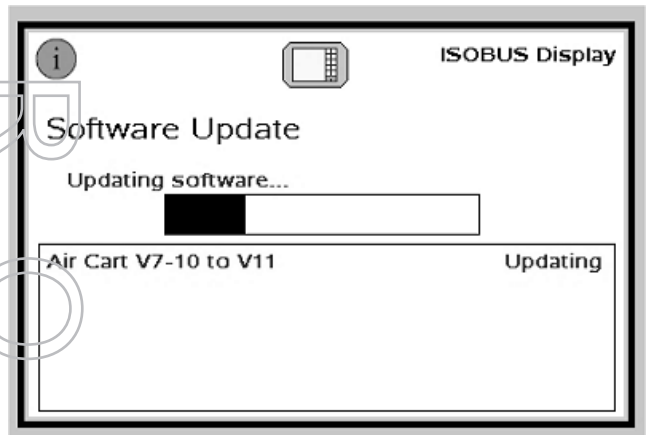
Continued on next page

OUO6074,0000EAE -19-08MAR06-3/6

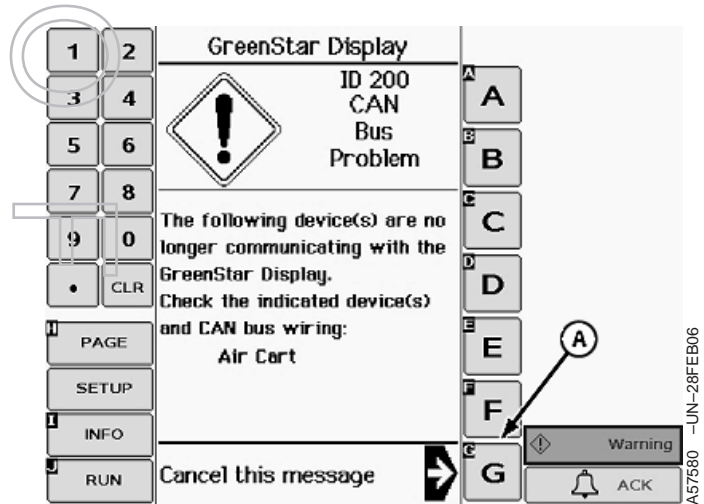
- Wait for progress bar to complete and the message indicating download was successful. Progress bar may move slowly or stop for a time. This is normal. Do Not cycle power.

A CAN Bus Problem message will appear. This indicates the air cart controller is offline being programmed. Cancel this message (A).

A—Cancel This Message



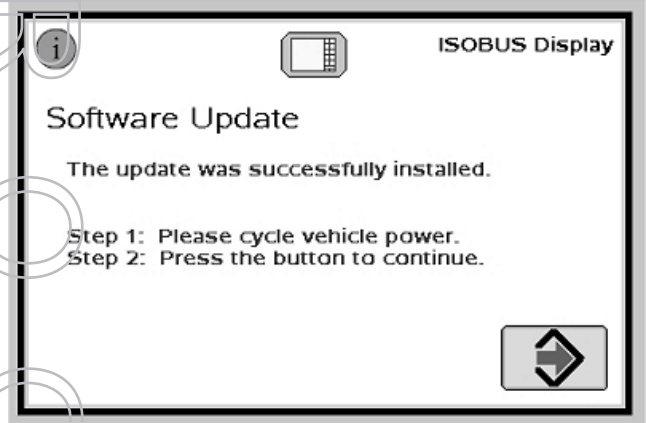
A57579 -UN-28FEB06



A57580 -UN-28FEB06

OUO6074,0000EAE -19-08MAR06-4/6

- When the programming is successful, cycle power off then on and press ENTER softkey icon.



A57581 -UN-28FEB06

Continued on next page

OUO6074,0000EAE -19-08MAR06-5/6

PC8663 -UN-05AUG05



Menu Softkey Icon

PC8657 -UN-05AUG05



GreenStar Softkey Icon

1	2	INFO	Diagnostics	
3	4	Hardware Version S/N:16217 AUTO 2.5V		A
5	6	A	Software Version 1105122015	B
7	8	Recent Problems		C
9	0	Engineering Data		D
.	CLR	Select		E
		Select		F
PAGE		Diagnostic Code		G
SETUP		Enter		
INFO		Return		
RUN				

A57582 -UN-28FEB06

A—Software Version

17. Confirm software version is now loaded. Press MENU softkey icon. Press Original GreenStar Monitor softkey icon. Press INFO—Air Cart—Diagnostics. **In This Example:** We were programming from version 09 to version 11. The

first two digits are now 11, so programming was successful.

18. Compact Flash card **MUST** be installed in GS2 display to operate machine.

R

O

O

F

R

R

O

O

F