

GS2 Third Party Controller Harness Kit

(PF90363)



JOHN DEERE

INSTALLATION INSTRUCTIONS GS2 Third Party Controller Harness Kit

PC20424 12JAN06 (ENGLISH)

**John Deere Ag Management Solutions
PC20424 (12JAN06)**

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A John Deere ILLUSTRATION® Manual

PC20424-19-12JAN06

GS2 Third Party Controller Harness Kit (PF90363)



Harness PF80807

PC8886 -UN-12DEC05



Harness PF80793 with PF80807 installed

PC8887 -UN-12DEC05

The RS232 Harness will work with harnesses PF80793, PF80773, & PF80775

They are not included in Kit PF90363 and will need to be ordered separately.

Two ports are available in the 2100 and 2600 display: COM 1 and COM 2

To setup RS232 COM 2 on the 2100 or 2600:	
RS232 Wire	Display Connector Pin #
Blue	Pin 15 = Rx
Green	Pin 26 = Tx
White	Pin 17 = CTS
Red	Pin 16 = RTS
Black	Pin 4 = Ground

To setup RS232 COM 1 on the 2100 or 2600:	
RS232 Wire	Display Connector Pin #
Blue	Pin 23 = Rx
Green	Pin 22 = Tx
White	Pin 25 = CTS
Red	Pin 24 = RTS
Black	Pin 2 = Ground

OUO6050,0001780 -19-12DEC05-1/1

Non-John Deere GPS Receivers

AutoTrac requires CAN GPS messages from an original StarFire receiver or StarFire iTC receiver. Non-John Deere GPS receivers that output correct NMEA 0183 standard messages can be used for documentation and manual guidance with a GreenStar application. It is critical that receiver is setup to output the following messages:

- GGA
- GSA
- RMC setup at 19200 baud (This is fixed and Non-adjustable)

- Data Bits 8
- Parity none
- Stop 1
- Flow Control none
- 1 or 5 Hz output rate (Recommend operation at 5 Hz. Guidance requires 5 Hz.)

Without these messages, receiver will not function with GreenStar application. A harness and installation instructions is available to connect DB9 port of receiver to correct pins of display connector. See a John Deere dealer for more information.

OUO6050,00017E5 -19-12JAN06-1/1

INSTALLING THE WIRES



Depress Single Large Tab

PC8888 -UN-12DEC05



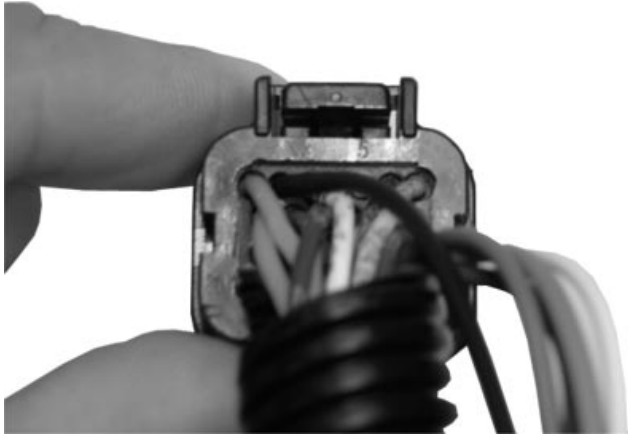
Two smaller tabs become exposed

PC8889 -UN-12DEC05

1. Remove the connection from the GS2 display and from all power sources on the vehicle.
2. The square AMP 26-pin display connector has a built in pin locking mechanism.
 - a. Locate the large single white locking tab.
 - b. Using a flat screwdriver, depress this tab. It will depress approximately 1/8 inch.
 - c. Two tabs on the opposing side will become exposed once the single large tab is depressed.
 - d. Once these two white tabs are exposed, the connector pins are unlocked.

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PC8890 -JUN-12DEC05

a



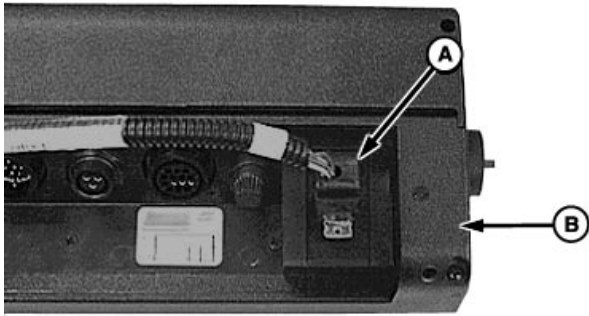
PC8891 -JUN-12DEC05

b

3. Use the chart at the beginning of this instruction to determine the pin locations for the desired COM port you will utilize (for example: COM 1 uses pin locations 2, 22, 23, 24, & 25). Pin location numbers are stamped into the black housing on the back of the connector.
4. Remove the white plugs for the correct pins you will add the RS232 wires to. The white plugs will pull out easily with small needle-nosed pliers.
5. Insert harness wires into correct pin locations. You may need to utilize a needle-nosed pliers to push the connections forward through the orange seal in the connector.
6. Once you have all 5 wires pushed up flush to the front of the connector face, you need to lock the pins back in place by pushing down on the 2 white locking tabs until they are flush.

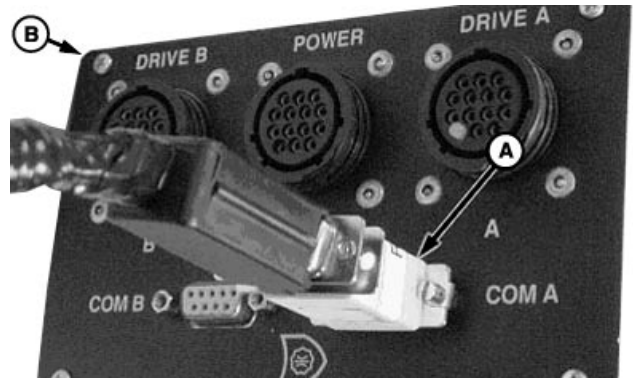
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Null Modem

A—Connector



PC8898 -UN-03JAN06

PC8897 -UN-03JAN06

Serial Port Gender Changer

B—Controller

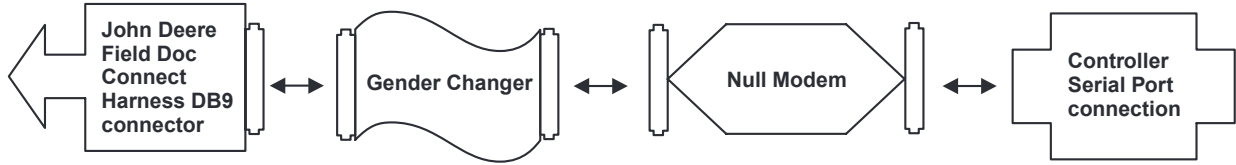
7. Connect RS-232 connector (A) to controller (B) and verify settings for the following controllers:

NOTE: Depending on controller used, a serial port gender changer and/or a null modem may be

required to connect wiring harness to controller. See Controller Configurations section at end of this instruction for proper GS2 display to controller configurations.

OUO6050,00017E4 -19-12JAN06-3/3

Controller Configurations



For Rawson and New Leader Controllers

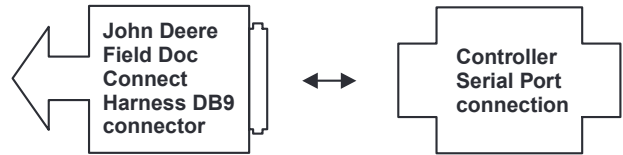
Raven Controller under the data menu key

verify that bAUD = 9600, triG = 1, Unit = sec, dLOG = ON.

NOTE: If you would like to turn the rate alarm OFF, set the rATE = OFF.

Rawson or New Leader Controller, verify that the settings under the "Controller" button of the GS2 display match the information on the controller (i.e. Mid Point on the GS2 Display should be the same value as on the Rawson or New Leader controller).

NOTE: Ensure to set Rawson or New Leader controller to GPS Mode (under Mode Key) to enable serial port communication with controller.



For Raven, Dickey-John, and Vanguard

PC7996 -19-06NOV03

PC7995 -19-06NOV03

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