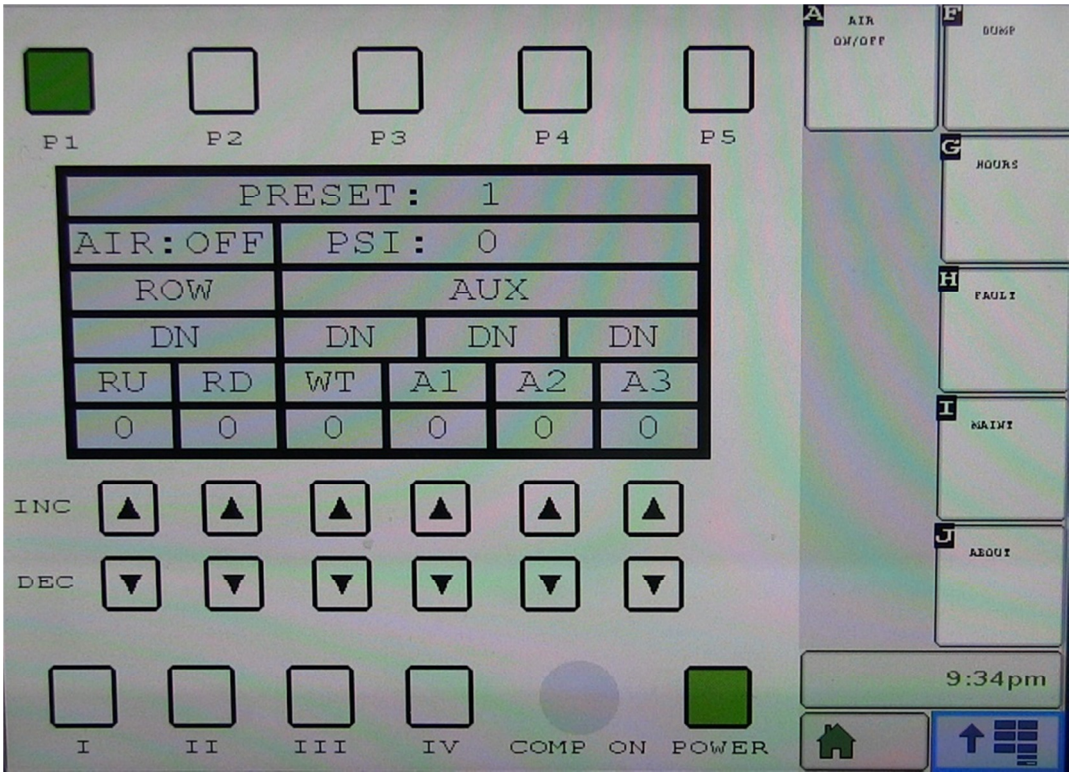
2940-087
ISOBUS Installation/Parts Manual

2565-791 ● 7/15



YETTER MANUFACTURING CO.
FOUNDED 1930

Colchester, IL 62326-0358
Toll free: 800/447-5777
Fax: 309/776-3222
Website: www.yetterco.com
E-mail: info@yetterco.com

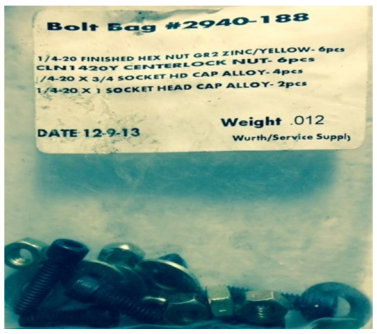
2940-087 Kit Parts Identification

Part # **Description**

2940-146 Rear ISOBUS IBBC Harness for John Deere ----------→

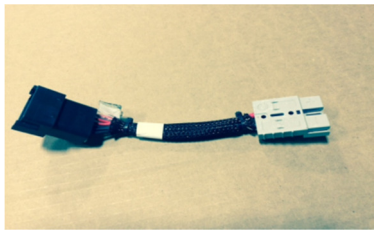
2940-180 ISOBUS 10FT to Air Assembly Harness----------→

2940-188 2940-087 Bolt Bag----------→



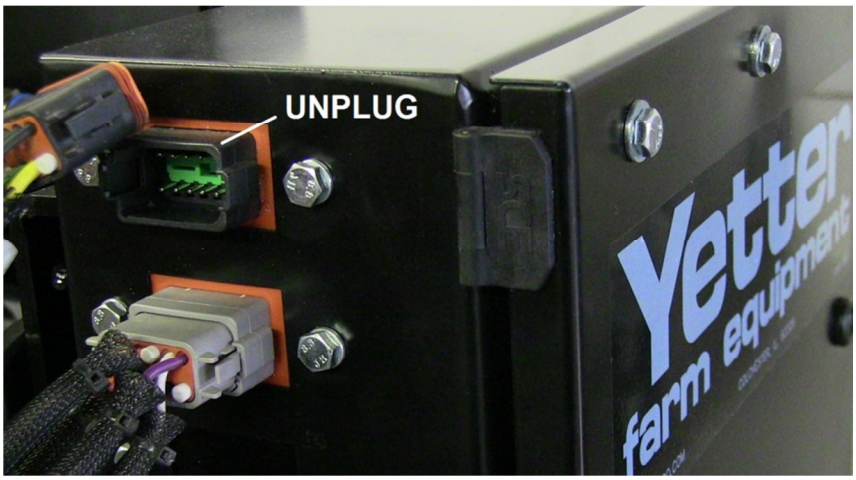
2940-370 Rear ISOBUS IBBC Plate----------→

2940-437 ISOBUS Power Adapter Harness----------→



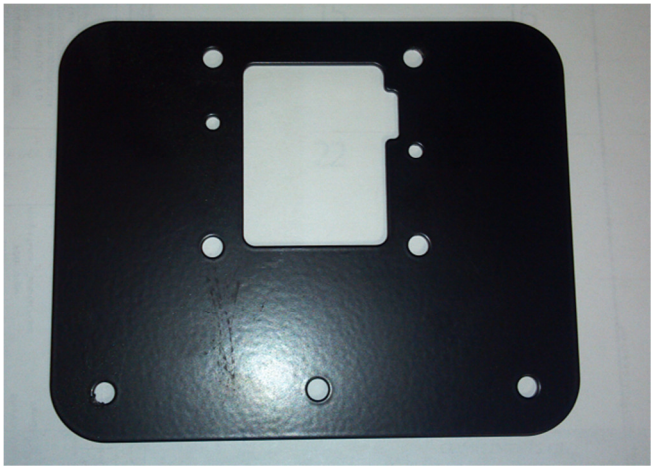
ISOBUS cable installation for Deere planters

Step 1: If already equipped with a Yetter cab control, and associated harnessing, the user will need to unhook the black 12 pin connector of the CAN/power cable at the 103 control unit housing. This harnessing will still be needed for 12V power from the battery to power the VDM.



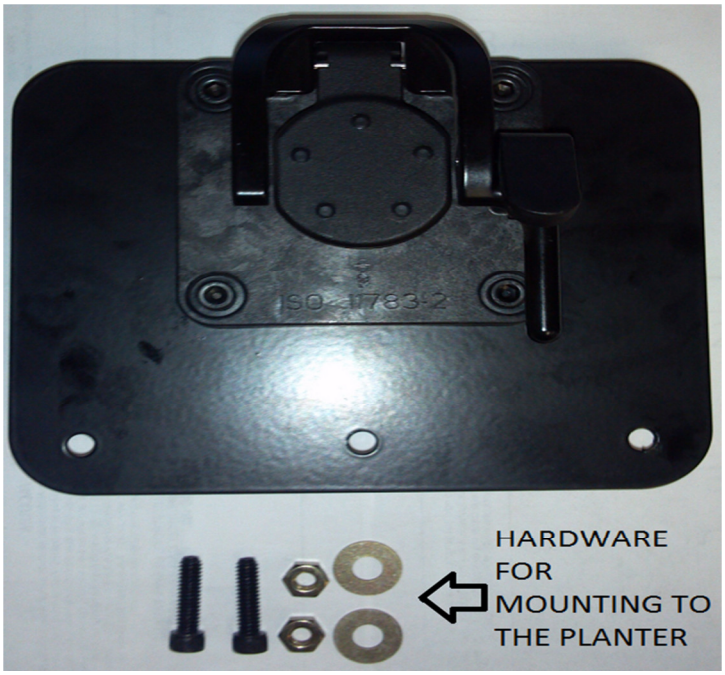
Step 2: Locate & unplug the CAN termination harness normally found at the center rear, directly under the CCS tanks on the planter. It will be a black 12 pin connector, with a black 2 pin connector. These connectors “Y” into a terminating resistor.

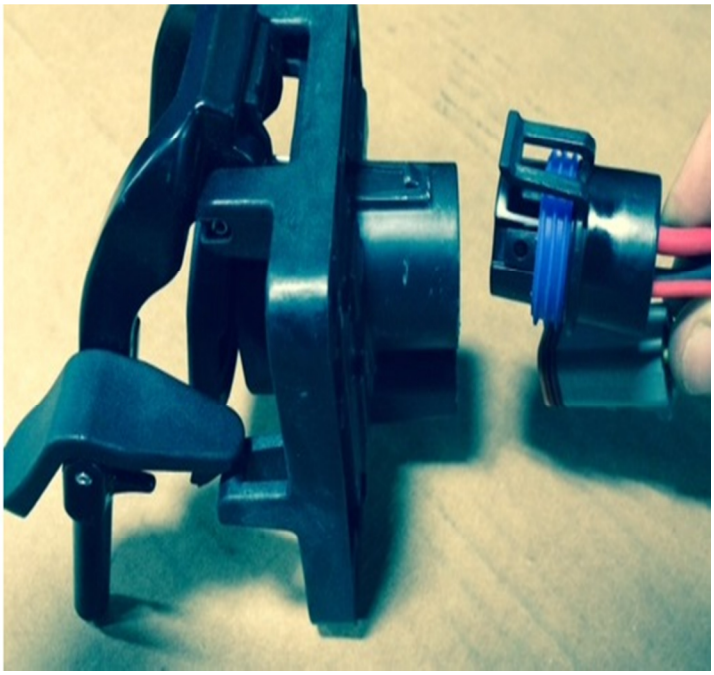
Step 3: Mount the 2940-370 rear isobus connector mount plate on the planter, in a secure location away from moving parts or contact with parts during folding. Make sure the plate is located within reach of the 2940-146 harness when plugged into the Deere CAN harness. 1 example is mounting to a hole located on the stairs leading to the catwalk for the bulk fill tanks.



Installation Continued

Step 4: Unplug the 2940-146 harness from the back of the implement connector by unhooking the grey 4 pin & small black round plug. Secure the implement connector housing to the plate with the included hex screws. Replace the 2940-146 harness connections to the implement connector; install the 4 pin & small black round plug back into from where they were removed from.

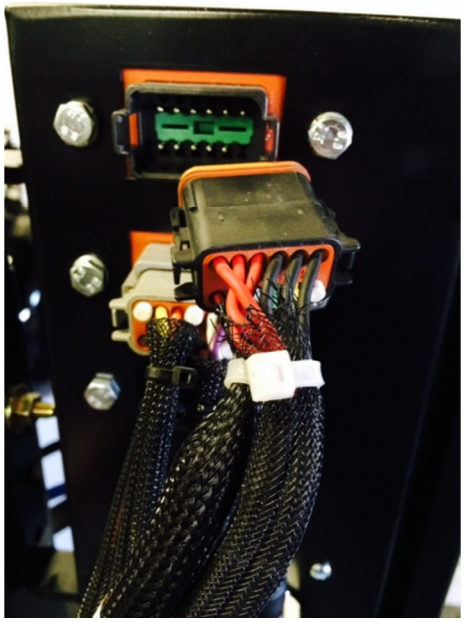




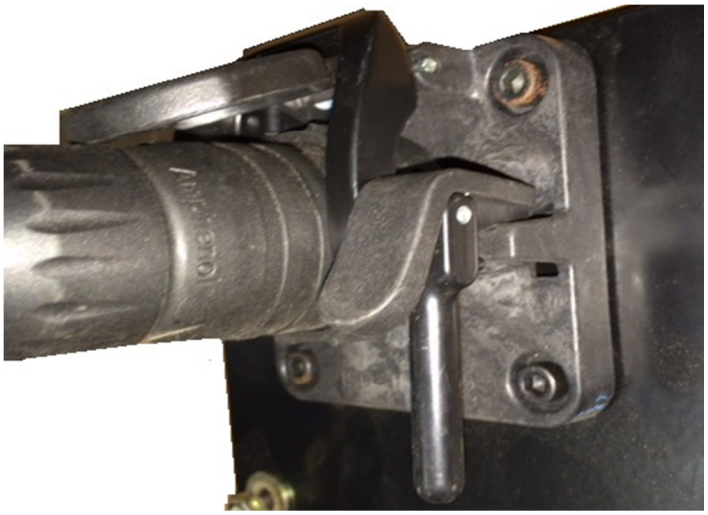
Step 5: Route the 2940-146 cable to the location of where the CAN termination harness was removed in step 2. Plug the corresponding connectors of the 2940-146 harness into the CAN harness on the planter.

Installation Continued

Step 6: Plug the 12 pin Deutsch plug of the 2940-180 harness into the black 12 pin connector on the side of the 2940-103 housing. Make sure that there is a terminating resistor plugged into the 2940-180 harness.



Step 7: Plug the round ISOBUS connector on the 2940-180 harness into the implement connector at the 2940-370 mount plate. Make sure the locking mechanism is latched preventing the ISOBUS connector to become loose or unplug.



Step 8: Plug in VDM power. The 2 pole Anderson from the battery will install into the 2 pole Anderson on the 2940-180 harness on a new 2940 Air Adjust system installation. If the 2940 system was already equipped on the planter & the system is just being converted to be operated through the John Deere 2630 VT, the 2940-437 12 pin Deutsch to 2 pole Anderson adapter will be needed. On the adaptor, the 12 pin Deutsch will install into the 12 pin Deutsch from step 1 & the 2 pole Anderson will install into the 2 pole Anderson on the 2940-180 harness.

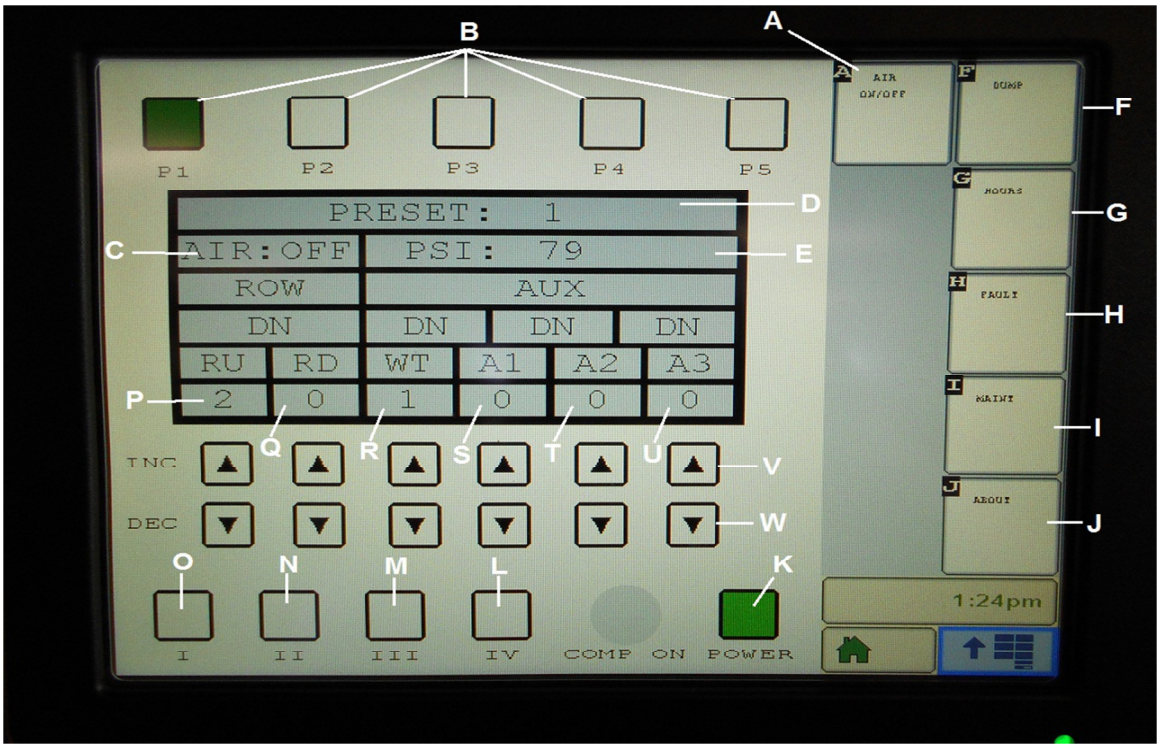
New Install Method

Conversion Method Using 2940-437 Adaptor

Step 9: Zip-tie wiring away from pinch points, rotating parts, or other harmful contact with objects on the planter. The ISOBUS harness is now installed, and ready for use.

Step 10: Activate the 2630 ISOBUS VT, verify that the 2940 screen loads properly, & then refer to the “Operating 2940 Air Adjust on JD 2630 Monitor” sheet for instructions on controlling the system

Operating 2940 Air Adjust on JD 2630 Monitor



A. Air On/Off-Touching this icon will arm the PQE and/or compressor.
B. Preset icons-5 presets are offered for the user to set for different soil types, field conditions, tillage practices, etc. Press desired preset icon for 5 seconds to set preset to displayed pressure settings.
C. Air on/off indicator-If 2940 system is on, AIR: ON will display. If system is off, AIR: OFF will display.
D. Preset Indicator-Displays what saved preset the system is operating on.
E. PSI Indicator-Displays the current tank pressure.
F. Dump- touching this function will allow the user to set the dump valve delay time in .25/second intervals.
G. Hours-selecting this icon will allow the user to see total system hours and compressor hours, and duty cycle (on Yetter compressor equipped systems).
H. Fault- fault screens allow the user to work with a Yetter service person to diagnose any controller/electrical issues.
I. Maintenance- this menu displays the main vital maintenance items to be completed as described.
J. About- this menu displays the system's software versions.
K. Power icon- turns power on or off to the air system, green indicates on, no color indicates off.
L. IV(4) Not Used
M. III(3) Not Used
N. II(2) Not Used
O. I(1) Touching icon will raise/lower row cleaners. If icon is green, row cleaners should all raise.
P. RU(Residue Manager Up) pressure reading
Q. RD(Residue Manager Down) pressure reading
R. WT(Wheel Track) pressure reading
S. A1(auxiliary 1) pressure reading (not used)
T. A2(auxiliary 2) pressure reading (not used)
U. A3(auxiliary 3) pressure reading (not used)
V. Increase Air Pressure Icons-increase pressure to assigned output, in 1psi per touch increments.
W. Decrease Air Pressure Icons-decrease pressure to assigned output, in 1psi per touch increments.

System Start Up

Step 1: Set all pressures (RU, RD, WT) to zero.

Step 2: Press the Air ON/OFF button, button number A in the diagram. Although the monitor has been powered on, the 2940 system and compressor, if equipped with a Yetter compressor, will not activate until the Air ON/OFF button has been pressed. Item C on the diagram on the previous page should read Air: ON.

Step 3: Once the compressor source has begun to operate, you should see the PSI on the tank gauge increase. Let the compressor run and build pressure until the compressor shuts off. If equipped with an electric compressor, the monitor tank pressure will read around 95psi. If equipped with a hydraulic compressor, the monitor tank pressure will read around 120psi. Once this has been achieved, you can move to operation mode.

Note: If the hydraulic or electric compressor do not power on, check the 40AMP breaker located at the battery (electric compressor will also have a 80AMP breaker to check). Even if the breaker doesn't appear to be tripped, manually trip the breaker and reset it.

Operation Mode

For operation mode, you will be using a series of icons. This may vary depending on how the specific system has been plumbed. With the majority of systems, you will have the ability to control down pressure on 2 sections separately with the wings controlled by RD circuit and the center 4 or 6 rows controlled by WT circuit. The RU circuit controls the up pressure on every residue manager on the planter. In this operation mode tutorial, make sure that the PSI reading (labeled E in the diagram) reads 85psi or more and the Air ON/OFF button is activated. To make adjustments to the RU, RD, or WT circuits, press the desired arrows icons. For example, to change the RU from 0psi to 5psi, press the up arrow under the RU circuit 5 times. Holding the arrow for an extended period will not move the psi increment. Pressures should never be below 20psi and never be above 60psi.

Step 1: Adjust the RU pressure to 35psi and watch the residue managers as they should ALL travel up.

Step 2: Adjust the RD pressure to 30psi and watch the residue managers on the wings. The wing residue managers should start to lower at around 25psi. They may not be lowered all the way at 30psi when the RU is at 35.

Step 3: Adjust the WT pressure to 32psi and watch the residue managers on the center 4 or 6 rows. The center rows should start to lower at around 25psi. They may not be lowered all the way at 32psi when the RU is at 35.

Step 4: Press and hold the P2 (Preset 2) button until you hear a beep. You have now set a preset. 5 presets are available when a desired setting found with likely potential to use that setting again.

Step 5: Press DUMP and then press EDIT to change the dump valve delay setting. Press the DEC (decrease) or the INC (increase) to get to the desired setting. Then press EDIT again to save and press BACK to return to operation screen. (see Yetter 2940 manual in the Pre-Field Operations section for the correct setting for your planter)

Step 6: Press HOURS to view the number of hours the compressor has run, the duty cycle (which is the percentage of how many hours the compressor has ran in accordance with how many hours the system is activated. Should be below 15%), and total system hours. Press Back to return to operation screen.

Step 7: Press FAULT to view the Fault Status J1, J2, J3, & J4 screens. These will be used when troubleshooting the system with a member of the Yetter service team.

Step 8: Press MAINT (Maintenance) to view regular maintenance to perform. Press Back to return to operation screen.

Step 9: Press ABOUT to view software information. Press BACK to return to operation screen.

Step 10: To raise the residue managers with the push of a button, press the Roman Numeral I button on the bottom left of the monitor. To lower the residue managers back to the current psi setting, press the Roman Numeral I button again. Roman Numeral buttoms II, III IV are not utilized at this time. (You may also notice that when the residue managers are up, "UP" is displayed underneath AIR: ON/OFF. If residue managers are in the down position, "DN" is displayed.)