

# Steer Ready Kit Installation Guide

**Kit: EDX-SR-JDR-CAN, P/N 911-3019-000**

## Fits John Deere 'R' Tractor Models:

*(Note: Tractor must have the CAN connector in the cab - see picture inset at right. A John Deere authorization code and an Outback terminal activation code are also required. Contact your dealer or Outback Guidance Customer Service if necessary.)*

### 2011 Models

<b>7200R</b>	<b>8235R *</b>	<b>8310R *</b>
<b>7230R</b>	<b>8270R *</b>	<b>8335R *</b>
<b>7260R</b>	<b>8285R *</b>	<b>8360R *</b>
<b>7280R</b>		

*\* Wheel models only*


### 2012 Models

<b>6105R</b>	<b>7200R</b>	<b>8235R</b>	<b>9360R †</b>
<b>6115R</b>	<b>7230R</b>	<b>8260R</b>	<b>9410R †</b>
<b>6125R</b>	<b>7260R</b>	<b>8285R</b>	<b>9460R †</b>
	<b>7280R</b>	<b>8310R</b>	<b>9510R †</b>
		<b>8335R</b>	<b>9560R †</b>
		<b>8360R</b>	

*† Excludes scraper tractor models*



## Read and Follow Safety Messages

- In these instructions, you will see the heading **WARNING** and the safety alert symbol . They indicate a hazardous situation that, if not avoided, could result in death or serious injury. The safety messages provide information to identify a hazard associated with potential injury.
- Before installing, operating, or performing maintenance or service on any part of the system:
  - Read and understand this installation guide.
  - Read and understand the Steer Ready User Guide.
- Do not allow anyone to operate without instruction.
- Keep these instructions and all related safety information with the manuals for your machine and other implements.

If you have questions or need assistance, contact your local dealer or distributor.

## Overview

For the machine models listed above, a specific kits has been developed to work in conjunction with your steer ready system. The kit contains the components for the electronic control unit (ECU).

The items in the kit are detailed in the table that follows the safety warnings on the next page. After the kit table there are step-by-step installation instructions for each of the kit items.

Please read this manual thoroughly before beginning the installation.

**⚠ WARNING:**

To avoid serious injury or death during machine operation, install the appropriate kit for your machine make and model.

## Machine Preparation

**⚠ WARNING:**

Inspect the machine and perform any needed maintenance (for example, contaminated hydraulic fluid) before installing the steer ready kit. This kit cannot perform as intended on a machine that is not maintained properly. Errors in performance increase the risk of operator and bystander injury or death.

Failure to maintain clean hydraulic fluid and operational hydraulic components can cause loss of directional control resulting in serious injury or death.



Turn off the machine and power off all steer ready components when installing or performing maintenance.

Before attempting to install any of the components, park the machine on a clean level floor with adequate clearance to work all around.

Before you perform any drilling, cutting or fastening, ensure that no other machine components, such as electrical wiring, will be damaged. Failure to follow this warning may cause physical injury and/or damage to the machine.

## Kit Contents - Electronic Control Unit

Unpack the electronic control unit kit and identify the required parts as shown. Kit items are A, B, C etc. with an E (Electronic) prefix (but see note after item EB).

REF	PART NUMBER	QTY	DESCRIPTION	PHOTOGRAPH
EA	051-0226-000#	1	ECU main cable	
EB	051-0367-000	1	CAN steering interface cable	
<b>Note: Items EC to EF (cables) are not used in this steer-ready installation</b>				
EG	054-0117-000#	1	Power switch  (Mount using EGa if necessary)	
EGa	726-1093-000	1	Switch bracket  (Mount EG, if necessary)	

**Kit Contents - Electronic Control Unit (continued)**

REF	PART NUMBER	QTY	DESCRIPTION	PHOTOGRAPH
EH	051-0166-000#	1	CAN-PWR cable	
EI	054-0123-000	1	Battery terminal cable (Connect CAN-PWR cable to battery)	
EJ	640-0091-000	1	ECU (EK) mounting bracket	
EK	806-1031-000#	1	ECU, eDriveX	
<b>Bag E1 of 1 contains EL, EM and EN</b>				
EL	675-1197-000	4	Screw, self-drilling, #10-16 x 2-1/2", hex, ZP (Attach EJ to cab floor - or use EM)	
EM	675-1192-000	4	Screw, self-drilling, #10-16 x 3", hex, ZP (Attach EJ to cab floor - or use EL)	
EN	675-1188-000	4	Screw, mach, M6 x 12mm, PPH, ZP (Mount EK on EJ)	
EO	677-2002	20	Tie straps, 7" releasable	

# Installation - Electronic Control Unit (ECU)

See **Appendix A** for a schematic of the cable connections.



Before drilling (or using self-drilling screws) in the cab, make sure there is nothing that can be damaged by the drilling or by any self-drilling screws used to secure the ECU mounting bracket. Secure anything that could be damaged away from where the screws come through. See Figure 1 for an example of a pre-drilling check; it shows an under-floor cabling compartment.

## 1. Install the ECU.

### NOTE:

1. Although measurements and floor mat references provide an accurate guide, ensure that when installed, the bracket will be parallel to the front of the machine (that is, perpendicular to the machine's fore/aft centerline). Also, use a small level to set the bracket as level as possible - see steps following.

2. The ECU, for all models, will be located on the left side of the cab between the driver's seat and the jump seat. The exact location, though, varies slightly for row crop models and 4WD, articulated models. Install your ECU appropriately.

- a. Locate the ECU mounting location on the cab floor to the left of the driver's seat (Figures 1a to 1c).

Facing the one-inch tabs of bracket **EJ** toward the driver's seat, align the bracket parallel to the machine's fore/aft centerline as follows:

**Row crop models:** With the outer edges of the one-inch tabs 3" from the base of the seat frame (Figure 1a).

**4WD, articulated models:** With the outer edges of the one-inch tabs 1" from the base of the seat frame (Figure 1b).

**All models:** Set **EJ**'s front edge 3" from the floor's 'stop block' (Figures 1a and 1b).

### NOTE:

At the next step, do not overtighten the self-drilling screws. Overtightening could cause the fastener to fail.

- b. Using self-drilling screws **EL** or **EM** (depending on the thickness of the floor—see warning above) fasten bracket **EJ** to the cab floor (Figure 1b). Use a small level (not shown) to check the level of the bracket and adjust accordingly.
- c. Using screws **EN**, attach ECU **EK** to the outer face of bracket **EJ**. Face the wire connections to the rear of the machine (so power and comms indicators at the bottom - Figure 1c, 4WD installation shown).



Figure 1: Example pre-drilling check

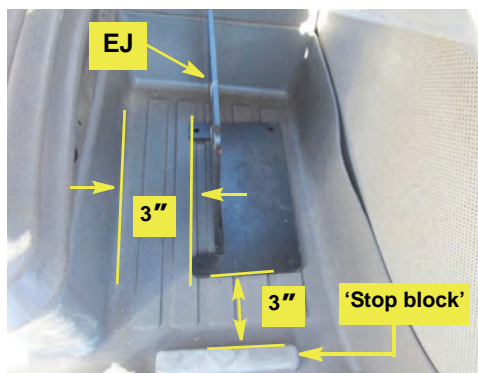


Figure 1a: ECU bracket installation (row crop)

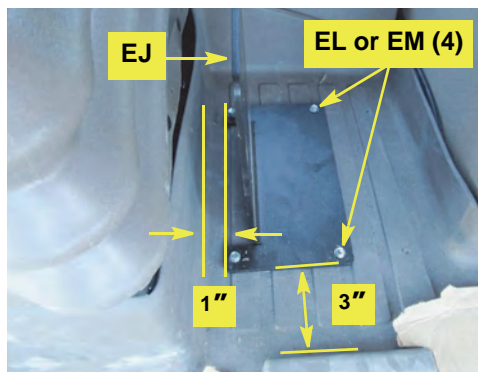


Figure 1b: ECU bracket installed (4WD)

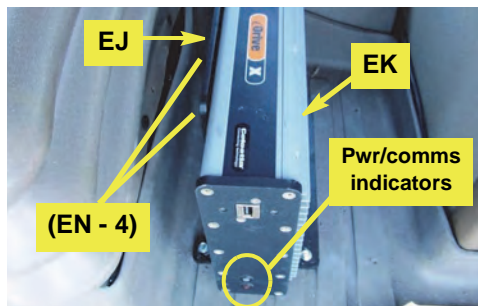


Figure 1c: ECU installed (4WD)



2. **Assemble and install the cables.**

On a clean surface, lay out all the cables and become familiar with the connections and where they are to be placed. See Appendix A. Use tie straps **EO** as required.

- a. Connect cable **EA** to ECU **EK** using an Allen wrench to secure the cable. The **EA** connector will only fit the ECU socket that is in line with the power and communications indicators at the opposite end of the ECU - the lower socket in this installation (Figure 2a - 4WD installation shown).
- b. Install CAN interface cable **EB** between **EA**'s connector labelled 'STEERING CONTROLLER' and the machine's CAN connection socket (the rear-most socket in the console next to the right window - Figure 2b and inset).
- c. Attach power switch **EG** to cable **EA**'s connector labeled 'SWITCH'. Some machines are equipped with pop out tabs that you can remove and replace with switch **EG**. If no tab is available, you can use bracket **EGa** mounting it in the cab at the operator's preferred location. Route the cable in the cab so that it is clear of any machine operation controls.

**NOTE:** Set switch **EG** to **OFF** before connecting **EA** to the battery at step *f* below.

- d. Install CAN-PWR cable **EH** between **EA**'s open connection labeled 'TERMINAL/RECEIVER' and the guidance terminal. Route the cable in the cab so that it is clear of any machine operation controls.
- e. Install battery terminal cable **EI** between **EH**'s remaining connector and the machine's 12V battery.

**WARNING:**

Ensure you have connected main cable **EA** to the ECU (step *a* above) and reconnected **EA**'s power cable (after routing in/out of the cab) before you connect the machine's battery at the next step.

- f. Route the power cable part of cable **EA** to the machine's 12V battery and connect it.

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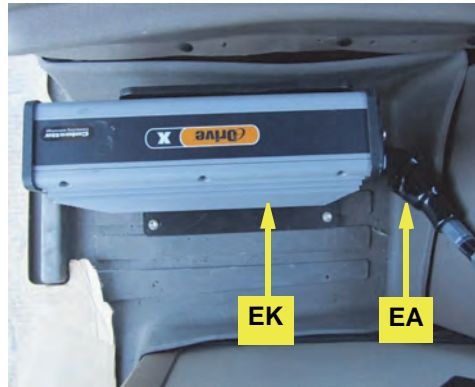


Figure 2a: Main cable connected to ECU (4WD)

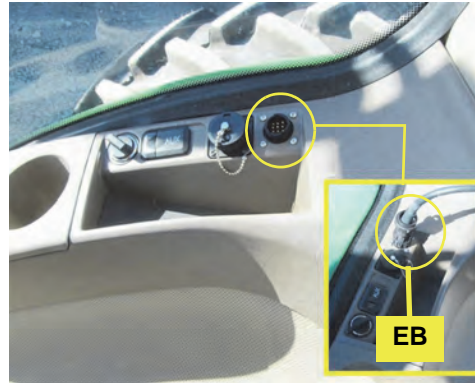


Figure 2b: CAN interface cable connected at machine's console

# Appendix A - ECU Cables and Connections

## ECU CABLES AND CONNECTIONS

