



**HEXAGON**

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# **HxGN AgrOn Sprayer/Fertilization with Hydraulic Auto Steering Control JAN ECUv4**

**New Product Release - 011/2022**

2nd March 2023 - Rev. 3

## Introduction

Aiming to release HxGN AgrOn Sprayer/Fertilization with Hydraulic Auto Steering Control JAN structures that use the ECU version 4.x. (07875 - HxGN AgrOn ECU Piloto Automatico Hidraulico v4.x).

The ECUv4 will be used in place of the ECU 04140 - HxGN AgrOn ECU Piloto Automatico Hidraulico v3.3.X and, for that, new structures were created based on the current structures for Sprayer/Fertilization with Hydraulic Auto Steering Control.

Current structure	New structure	Description
05037	07886	HxGN AgrOn Ti7+ Controle de Pulverização JAN Power Jet ECUv4
05267	07887	HxGN AgrOn Ti7+ Controle de Pulverização JAN Spartan 3000 ECUv4
07066	07898	HxGN AgrOn Ti7+ Controle de Pulverização 11S/13S JAN PJ ECUv4
07392	07906	HxGN AgrOn Ti10 Controle de Pulverização JAN Power Jet ECUv4
07393	07907	HxGN AgrOn Ti10 Controle de Pulverização JAN Spartan 3000 ECUv4
07506	07910	HxGN AgrOn Ti10 Controle de Fertilizacao + Desligamento de seções + PH Spartlancer 6200 JAN ECUv4
07395	07909	HxGN AgrOn Ti10 Controle de Pulverização 13S JAN Power Jet ECUv4
07394	07908	HxGN AgrOn Ti10 Controle de Pulverização 11S PJ2000/2650 ECUv4
07367	07901	HxGN AgrOn Ti7+ Controle de Pulverização 11S PJ2000/2650 ECUv4

Both structures can be marketed, depending on the ECU available. The differences between the structures are the ECU (version 3 or 4) and the cables that are connected to the ECU.

Some ECUv3 cables are not compatible with the ECUv4 due to the differences in the pinout of the ECUs. Those differences will be detailed following.

## Pinout and Cables

The pinout of the ECUv3 and ECUv4 are different in some pins, and for this reason, new cables need to be created on demand with JAN and Hexagon engineering team.

The pinout of CAN and External Power supply (Connector A) are the same in both ECU. However, on the ECUv3 some harnesses don't have a short-circuit between pins 1 and 3, and it is required on the ECUv4. Also, if other pins are used, it is necessary to check the compatibility.



Connector A			
Pin	ECUv3	ECUv4	Compatibility
1	V BAT-	V BAT-	✓
2	CAN HIGH	CAN HIGH	✓
3 <sup>1</sup>	V AUX-	V AUX-	✓
4	GND	CAN 2 HIGH	✗
5	Analog Input 2	Analog Input 2	✓
6	GND	GND	✓
7	5/12V OUT	5/12V OUT	✓
8	Analog Input 1	Analog Input 1	✓
9	5/12V OUT	CAN 2 LOW	✗
10	V AUX +	V_AUX+	✓
11	CAN LOW	CAN LOW	✓
12	V BAT +	V BAT +	✓

In Connector B, the differences are in pins 10, 11 and 12. These pins on the ECUv3 are connected to DRV+, but on the ECUv4 only pin 12 is connected to DRV+. For this reason, all cables connected to connector B need to be duplicated (new codes will be created for ECUv4) to adjust the DRV+ outputs.

Connector B			
Pin	ECUv3	ECUv4	Compatibility
1	OUTPUT 1	OUTPUT 1	✓
2	OUTPUT 2	OUTPUT 2	✓
3	OUTPUT 3	OUTPUT 3	✓
4	5/12V OUT	5/12V OUT	✓
5	Digital Input C	Digital Input C	✓
6	Digital Input B	Digital Input B	✓
7	Digital Input A	Digital Input A	✓
8	Digital Input D	Digital Input D	✓
9	GND	GND	✓
10	V DRV+	OUTPUT 6	✗
11	V DRV+	OUTPUT 7	✗
12	V DRV+	V DRV+	✓

**The cables created for ECUv4 will be compatible with the ECUv3, but otherwise may not be compatible (needs to be evaluated).**

### Installation

The installation is the same for both versions.

### Software compatibility

The software of the ECUv3 and ECUv4 are different. The ECU bootloader and Ti firmware update manages this update automatically.

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<sup>1</sup> This pin (3) must be short-circuited on pin (1) when there is no external power supply.



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**Control JAN ECUv4**

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For more information, contact your Hexagon Agriculture sales or technical support.