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## **HxGN AgrOn Auto Steering Control Planter D61 Komatsu ECUv4**

**New Product Release - 014/2022**

3rd March 2023 - Rev. 2

## Introduction

Aiming to release HxGN AgrOn Auto Steering Control Planter D61 structures that use the following ECUs:

- 07917 - HxGN AgrOn ECU Side Swing Controller LH v4.x
- 07918 - HxGN AgrOn ECU Side Swing Controller RH v4.x
- 07919 - HxGN AgrOn ECU Oil and Water Controller v4.x

The ECUv4 will be used in place of the ECUs:

- 04268 - HxGN AgrOn ECU Side Swing Controller LH
- 05758 - HxGN AgrOn ECU Side Swing Controller RH
- 04270 - HxGN AgrOn ECU Oil and Water Controller

And, for that, new structures were created based on the current structures for Auto Steering Control Planter D61

Current structure	New structure	Description
04726	07920	HxGN AgrOn Piloto Automatico Esteira Komatsu Planter D61 - WiFi ECUv4
05692	07921	HxGN AgrOn Piloto Automatico Esteira Komatsu Planter D61 - WiFi + 4G ECUv4
07134	07922	HxGN AgrOn Ti7+ Piloto Automatico Esteira Komatsu Planter D61 - 4G + WiFi ECUv4
07384	07923	HxGN AgrOn Ti7+ Dual Piloto Automatico Esteira Komatsu Planter D61 - 4G + WiFi 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 Komatsu 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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**Komatsu**

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