

June 30, 2023 - Revision R001

PRODUCT CHANGE NOTIFICATION

PCN004/2023 – HXGN AGRON TRACK CONTROLLER

1. PCN OVERVIEW

PRODUCT AFFECTED	05752		
NEW PART NUMBER (if applicable)	08123		
TYPE OF CHANGE	<input type="checkbox"/> MAJOR	<input type="checkbox"/> MINOR	<input checked="" type="checkbox"/> OBSOLESCENCE
CHANGE AFFECTS	<input checked="" type="checkbox"/> FORM	<input type="checkbox"/> FIT	<input checked="" type="checkbox"/> FUNCTION
	<input checked="" type="checkbox"/> RELIABILITY	<input type="checkbox"/> OTHER	

2. DETAILED CHANGE INFORMATION

A new Track Controller has been developed — It consists of improving the electric version of the current Track Controller, by integrating the electronic control circuits inside the BLDC motor. This new Track Controller Next-gen is composed of the MDU, associated cabling and anti-rotation system, also it was designed to interface to guidance system via CAN Bus.

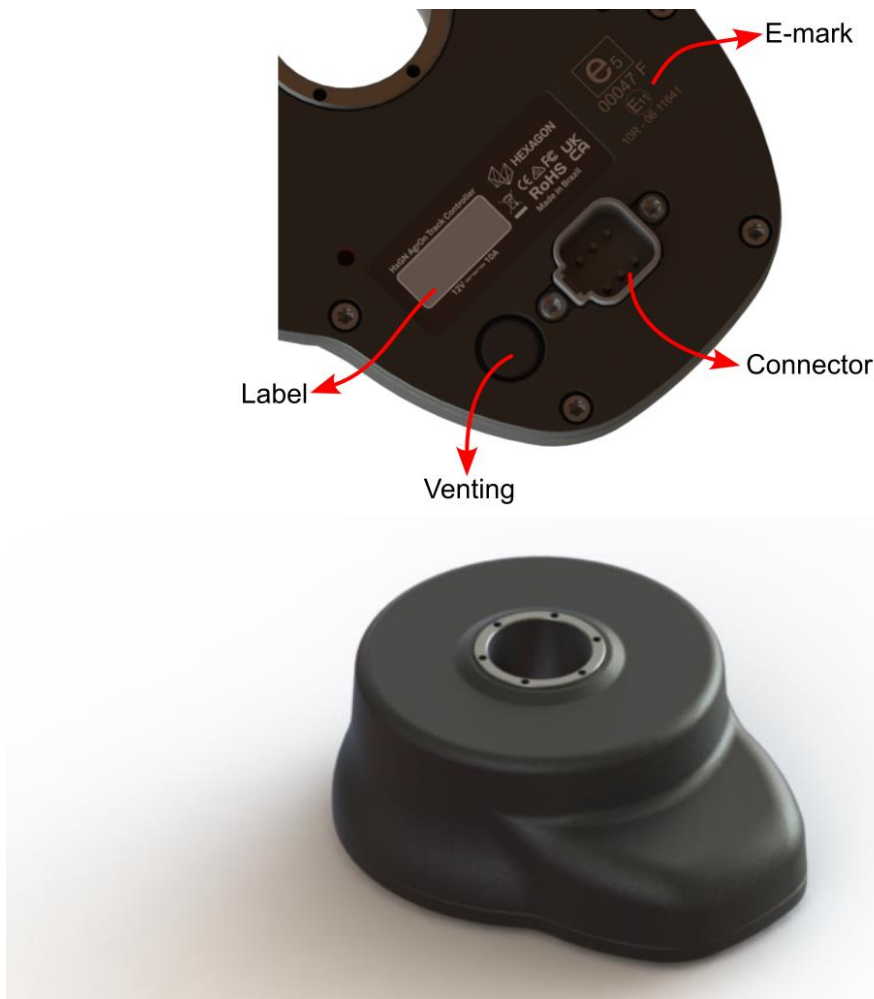
Current structure	Replacement structure	Description
05752	08123	Motor Track Controller Next-gen do Piloto Automatico Eletrico

3. IDENTIFICATION OF AFFECTED PRODUCT

The new Track Controller Next-gen can be easily identified by its label and physical features, as shown in the table below:

Features that can be identified visually	
Enclosure	Die casting aluminum enclosure
Label	Specific label and Serial Number range ¹
E-mark	Laser engraving of the E-mark certification
Venting	To manage the internal pressure
Connector	Deutsch DT header 6-pin arrangement

¹ The Serial Number range started at “SN 360001”



Die casting aluminum enclosure

4. REASON FOR CHANGE

The reason for the change is the development of a new Track Controller, known as the Track Controller Next-gen. This new Track Controller offers significant improvements over the current electric version by integrating electronic control circuits directly inside the BLDC (Brushless DC) motor.

The Track Controller Next-gen comprises the Motor Drive Unit (MDU), associated cabling, and an anti-rotation system (ordered separately). It is also designed to interface with the guidance system through a CAN Bus, enabling communication and coordination between the motor and the guidance system.

As a result of these advancements and the superior performance of the Track Controller Next-gen, it has been decided to replace the current Track Controller with this innovative motor. This change will involve phasing out all structures and components that currently rely on the old Track Controller.

5. IMPACTS OF THE CHANGE

With the Track Controller Next-gen, the task of starting and controlling the engine is no longer delegated to the ECU, which previously was an integral part of the Track Controller structure. Now, all control and activation are performed directly by the advanced onboard electronics of the Track Controller Next-gen. With this new approach, the ECU solely functions as an IMU.

Furthermore, it is important to highlight that all existing anti-rotation kits are fully compatible with the Track Controller Next-gen. This means that no modifications or adaptations to the kits will be necessary for seamless.

6. PROPOSED FIRST SHIP DATE: Q3/2023

The Proposed First Ship Date is the forecasted date that a customer may expect to receive the changed products. Both versions can be mixed until the old stock ends.

7. MORE INFORMATION

For more information, please contact your Hexagon Agriculture sales/technical support person.