

# **XTRA.CDI SHUTDOWN TRANSPONDER MK2**

## ***WHAT HAS CHANGED?***

Datum:

8-12-2021

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De Haardt bv  
Marithaime 6  
6662 WD Elst (Gld)  
The Netherlands  
Tel.: +31 481 353 202  
Email: info@de-haardt.com

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## Safety

All De Haardt's products are designed as supplement to make karting safer, but cannot replace safe track procedures. If equipment fails, the normal operating procedure must still be adequate to safely operate the track.

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# Table of Contents

- 1 CHANGES FROM THE XTRA.CDI SHUTDOWN TRANSPONDER V7 TO MK2 .....4**
- 1.1 CONNECTOR.....4
- 1.2 HOUSING .....5
- 1.3 EV COMMANDS.....5
- 1.4 RPM TABLE.....5
- 1.5 MORE POWERFUL ELECTRONICS .....5

# 1 Changes from the Xtra.CDI Shutdown Transponder V7 to Mk2

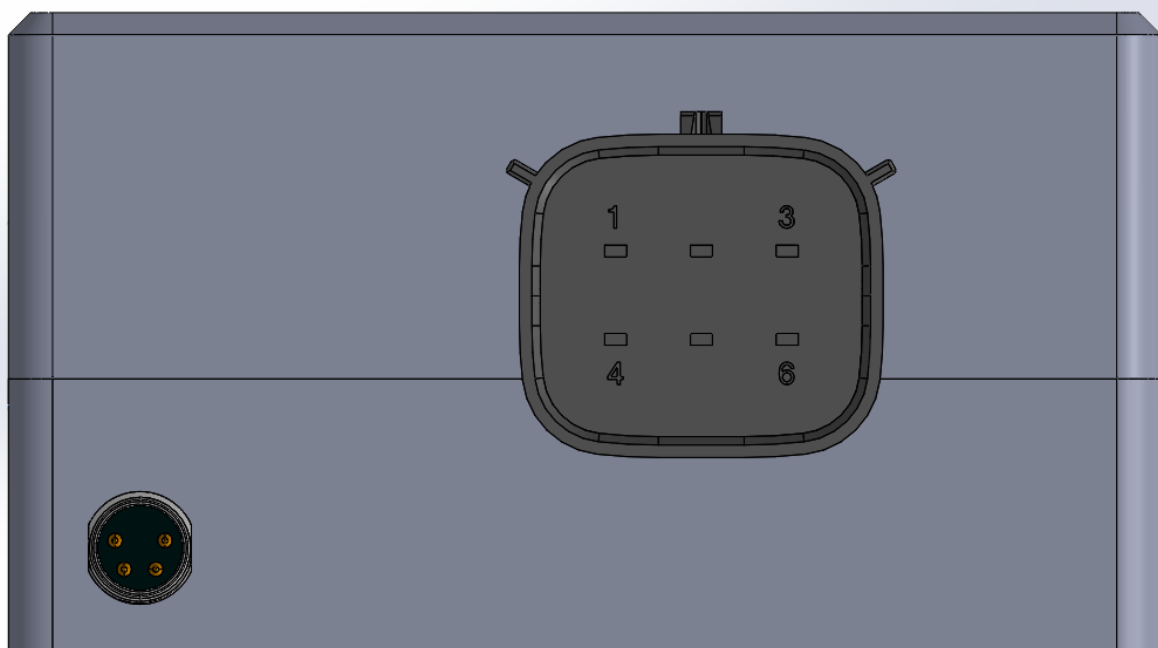
The Xtra.CDI Shutdown Transponder Mk2 has changed a lot compared to the Xtra.CDI Shutdown Transponder V7. The Xtra.CDI Shutdown Transponder does everything its predecessor did and more. This section describes all new features in this new version of the known CDI Shutdown Transponder.

## 1.1 Connector

The Xtra.CDI Shutdown Transponder Mk2 features a connector instead of the two cables used before. This change has been made to make it a lot easier to change a transponder on the kart. Using a connector instead of cables means more transponders can be shipped in a single box, decreasing the effect it has on the environment.

Because of the connector the cables can still be used in the case of a faulty transponder, and vice versa.

The connector pinout is described below.



Pin number	Function
1	Ignition -
2	Power +
3	Reserved
4	Ignition +
5	Power -
6	Brake switch

## 1.2 Housing

To accommodate the connector on the transponder, a new housing had to be designed. With this design the Xtra.CDI Shutdown Transponder Mk2 will have similar looks as the Xtra.CAN/EV Transponder.

## 1.3 EV commands

From this generation forward the Xtra.CDI Shutdown Transponder will also accept EV commands. This means a remote configured for EV karts can also be used for fuel karts. (note: This feature only works when an entire fleet of karts has Mk2 transponders fitted.)

## 1.4 RPM Table

The Xtra.CDI Shutdown transponder features an RPM table. This table can be used to set an RPM for the speeds 1, 2, 3, and 4. This also means the RPM limit set using the Xtra.Sensor can be configured.

## 1.5 More powerful electronics

The Xtra.CDI Shutdown transponder Mk2 features a stronger microcontroller. This means the transponder has enough memory and performance for extra features in the future.