

**Nemko North America, Inc.**  
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Attn: Director of Certification

### **Model difference**

#### **RFID DESS Post Model 1001317030**

As illustrated in Figure 4 and Figure 5, the Post is composed of a plastic cover, an O-ring, a main PCB, a header, a secondary PCB and a plastic housing. The plastic cover, plastic housing and O-ring protect the internals from the external environment.

The cover provides a mechanical mating interface for a connector. The CAN variant has a 5-pin connector, the MOWP variant has a 4-pin connector. Those over molded pins are providing the electrical path between the main PCB and the vehicle's harness connected to the ECU.

The secondary PCB is mounted to the main PCB using a 3-pin header. The secondary PCB holds the hall sensor. The main PCB holds the remaining electronics needed for operation: power supply, microcontroller, communication transceiver, contact output circuitry, RFID initiator/reader and antenna.

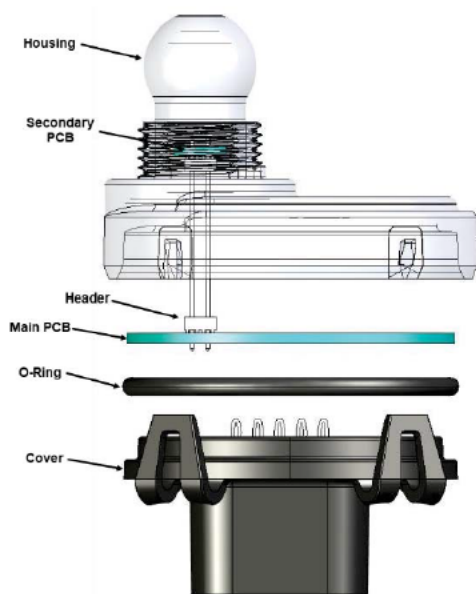


Figure 4: RFID DESS Post - CAN

Model variant for CAN : 1001316154

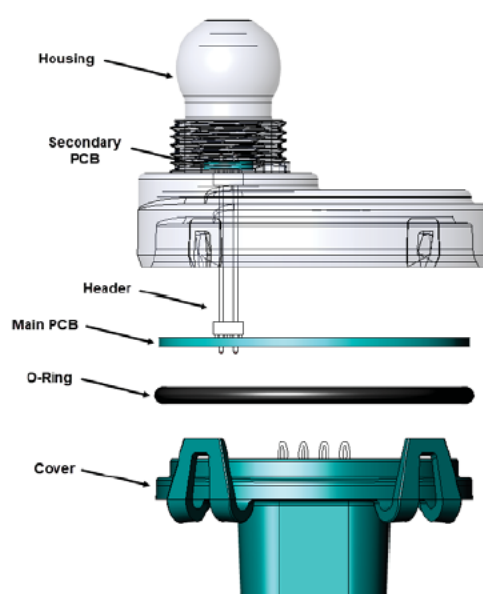


Figure 5: RFID DESS Post - MOWP

Model variant for MOWP : 1001316155

### 3.1 Bidirectional Communication

#### 3.1.1 CAN variant

The RFID Post is designed to exchange information via CAN protocol with the ECU.

#### 3.1.2 MOWP variant

The RFID Post is designed to exchange information via Maxim 1-Wire protocol with the ECU. It is also possible to communicate with the module using a MPI2.5 CAN-to-MOWP converter for diagnostics purposes.

Dated: 9/27/2022

Signed: Alain Lafreniere

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Title: **Manager Test Laboratory**

On behalf of: **Kongsberg Inc**