Trailer Identification

Overview

Cellocator Division
Pointer Telocation Ltd.

Proprietary and Confidential

Version 1.3

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POINTER

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1 General Description

1.1 Overview

The trailer identification product facilitates the transfer of trailer identification data, via the Dallas input on the Compact unit, to the Control Center application. This provides automatic association of the trailer to the tractor.

The trailer ID code is printed on the trailer ID device for convenience.

The Trailer Identification device starts to transmit the trailer ID to the Cellocator unit as soon as ignition is turned on, and continues transmitting every few milliseconds. The Cellocator unit sends the last received Driver ID on every event to the Control Center. The Cellocator unit responds to the received Trailer ID information, in accordance with pre-programmed parameters, the same way as it does for the Driver ID information received from the standard Dallas Reader.

Optionally, driver identification, based on a standard Dallas key, can be supported simultaneously with trailer identification, as explained in the Driver Identification Application Note.

1.2 Compatibility

The Trailer ID can be used only by Compact TOB, Compact EOB and Compact CAN units with Unit ID above 281818. These units support 10 meter 1-wire Dallas interface. The Trailer ID will be supported by any future Cellocator unit's models which support Dallas interface and Driver Authentication functionality. To verify the compatibility of a particular Cellocator unit with the Trailer ID, please refer to your Cellocator agent.

1.2.1 *Revision History*

Version	Date	Description
1.0	22/11/2009	Initial version
1.1	10/01/2010	Compatibility: The product can be supported only by Cellocator units with Unit ID above 280250
1.2	15/01/2010	Change picture on front page
1.3	15/03/2010	Update compatibility section

2 Installation Instructions

2.1 Safety Instructions

The installation requires one or two spare wires in the spiral cable connecting the trailer to the tractor. The installer must be familiar with the usage of each one of the spiral cable wires in order to allocate spare wires for the Trailer ID. Otherwise, damage might be caused to vital functions of the trailer, such as brakes system or blinker lights.

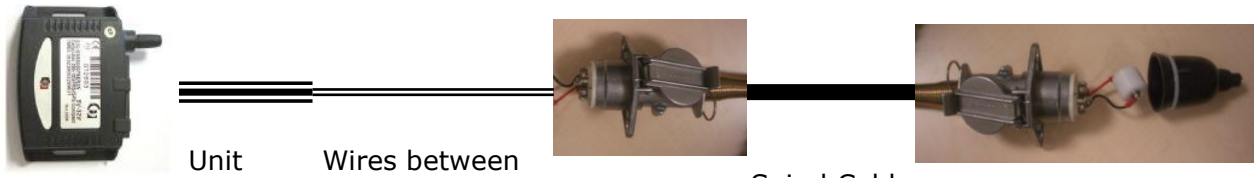
Generally, in fleet operations, any trailer may be connected to any tractor. Therefore the installer must ensure that the same installation arrangement is provided to all the trailers and tractors in the fleet.

NOTE: the installation requires one or two spare wires in the spiral cable connecting the trailer to the tractor.

CAUTION: The installer must be familiar with the usage of each of the spiral cable wires in order to allocate spare wires for the Trailer ID. Otherwise damage might be casued to vital functions of the trailer, such as brakes system or blinker lights.

CAUTION: The installer must ensure that the same installation arrangement is provided to all the trailers and tractors in the fleet.

2.2 Connection Diagram

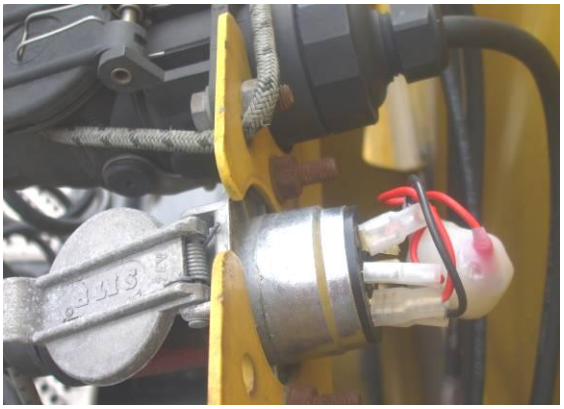


2.3 Installation Overview

The trailer ID utilizes black and red wires. The red wire is used for ID data and shall be connected to the Cellocator unit Dallas input, while the black wire shall be connected to the tractor/trailer ground.

To install the trailer ID, perform the following steps:

1. Allocate free wire in the spiral cable which connects the trailer to the tractor. This wire will be used for the ID data.
2. Allocate the wire used for ground in the spiral cable. If there is no ground wire in the cable, allocate a free wire which will be used for ground.
3. Connect the trailer ID red wire to the entry of the cable data wire in the cable connector on the trailer side as shown in the following illustration.
4. Connect the trailer ID black wire to the entry of the cable ground wire in the cable connector on the trailer side as shown in the following illustration.



5. Connect the appropriate data entry in the cable connector on the tractor side to the Dallas wire of the Cellocator unit harness.
6. In the event that there is no ground connection between the trailer and the tractor, connect the appropriate ground entry in the cable connector of the tractor side to the ground wire of the Cellocator unit harness. In that case both wires (ground and data) shall be in a twisted pair arrangement.