

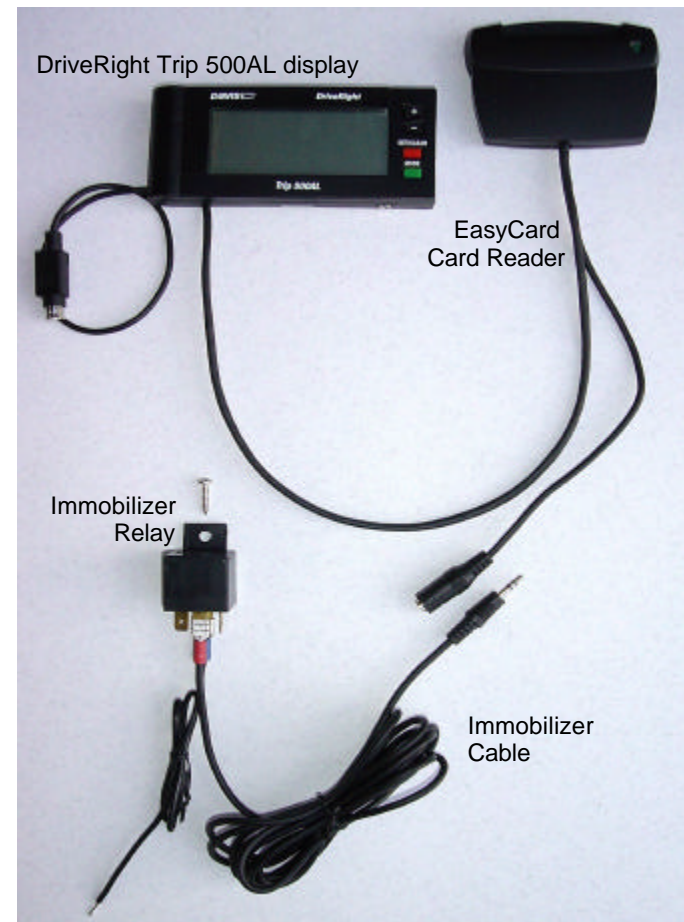
EasyCard for DriveRight



Installation Manual

Contents

1. EasyCard Card Reader and DriveRight Trip 500AL display
2. Immobilizer relay and cable (optional to install)



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Introduction

The EasyCard has a special, easy to install, design. These installation instructions should provide enough information for a professional automotive mechanic to quickly and successfully mount, and connect, the equipment.

Note: Read the EasyCard User's Guide before installation!

The use of the immobilizer function is optional. If you wish to use the immobilizer function, so that the vehicle can only be started with an authorized card, then the immobilizer relay must be installed. If you do not wish to use the immobilizer function, there is no need to install the immobilizer relay.

Installation by an authorized car mechanic is recommended. As with any accessory the mechanic must make important decisions, such as the location and installation method for the immobilizer, where to drill holes, and where to place cables, etc. Only experienced and professional mechanics are trained to make the right decisions. Wrong decisions may damage the vehicle, or even cause injury.

Note: As working on any vehicle may be hazardous, it is essential that adequate safety precautions are taken. Improper installations of any accessory may damage your vehicle and/or cause injury to installer, driver, passenger or even other road users. Both the manufacturer and the importer specifically disclaim any liability for injury or loss resulting from the incorrect installation of the EasyCard or its associated components and ancillaries.

Programming the EasyCard Card Reader

It is recommended that you program the EasyCard Card Reader before installation. The programming is required so that only authorized drivers can use the vehicle. Ask the fleet manager for the Program Card and a Supervisor Card.

To program the EasyCard Card Reader, insert the battery in the DriveRight display and wait until the DriveRight display is in the CURRENT screen for more than 10 seconds. Insert the Program Card in the EasyCard Card Reader. The green led should flash briefly. Remove the Program Card from the EasyCard Card Reader. If you did not see the led flash, just repeat the previous step.

If there no short flash at all, please check the Program Card with the EasyCard Software. It must be defined as Program Card to work properly.

Installing the EasyCard Card Reader

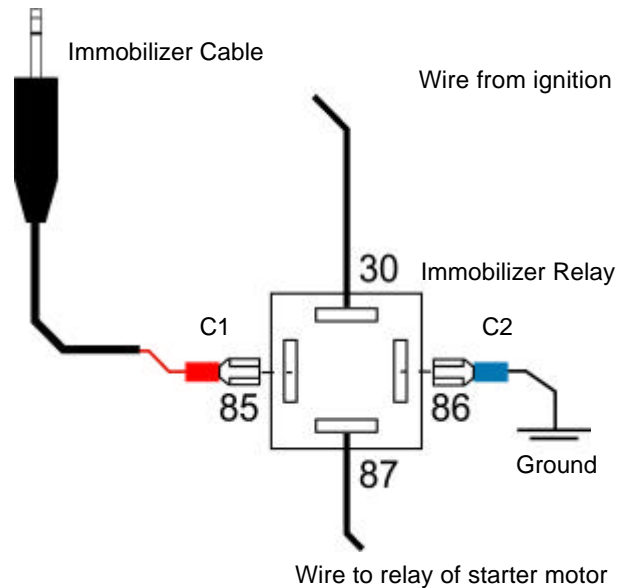
This installation procedure describes how to install the immobilizer relay in the vehicle. If the vehicle will be used without the immobilizer function, there is no need to install the immobilizer relay.

Please refer to the DriveRight installation manual to install the DriveRight in the vehicle first. Then, the steps described below must be carried out if the immobilizer is to be used. If the EasyCard is to be installed in a vehicle which has previously had a DriveRight installed, just follow the installation steps below to install the immobilizer relay. The EasyCard is delivered pre-connected to the DriveRight, so only the EasyCard immobilizer needs to be installed in this case.

Note: NEVER directly connect the DriveRight display to 24V.

- Remove the key from the ignition.
- The immobilizer relay should be installed in the car underneath the dashboard, away from any possible driver interference.
- Disconnect the main DriveRight display cable and the immobilizer-to-relay cable.
- Determine a location for the relay behind the dashboard while taking into account that the cable from the relay to the EasyCard Card Reader is of a limited length. Installation close to the ignition cable that activates the starter relay is highly recommended.
- Install the immobilizer relay at the desired location.
- Connect Connector C1 (red receptacle) to point 85 of the relay.
- Connect Connector C2 (blue receptacle) to point 86 of the relay. Connect the other side of the cable to the ground of the vehicle.
- Localize the ignition cable for the starter relay excitation. Cut this cable and connect the ignition side to point 30 of the relay using the yellow receptacle. Then connect the starter relay side to point 87 of the relay using the yellow receptacle.
- Reconnect the DriveRight to the harness cable and the immobilizer cable to the EasyCard Card Reader.

Note: Do NOT connect the immobilizer cable to the DriveRight display by mistake.



Testing proper functioning

Follow this procedure to test the EasyCard Card Reader:

- Do not insert a card in the EasyCard Card Reader. Try to start the engine. If all connections are correct, the engine will not start. If, however, the engine starts, check whether:
 - S the correct cable is connected to the relay (between ignition and starter relay)
 - S the immobilizer has activated the relay (the relay should not be activated if no valid Driver Card of Supervisor Card is inserted in the EasyCard Card Reader).
- Insert a valid Driver Card in the EasyCard Card Reader. The Driver ID will automatically be entered in the DriveRight display, then the green led will light up, to indicate that the immobilizer has been released. Now, you can start the vehicle. If, however, this is not the case, check whether:
 - S the correct cable is connected to the relay (between ignition and starter relay)
 - S the immobilizer has activated the relay (the relay should be activated if the green led is on).

Specifications

The following specification apply to the EasyCard:

EasyCard Card Reader:

Contact Area Plating	30 micro Gold Plated over Nickle
Operating temperature	-40 to 100 degrees Celsius
Durability	100,000 cycles minimum
Housing	ABS

Immobilizer relay:

Input voltage	10V to 16V
Power consumption	150 mA if relay activated
Operating temperature	-40 to 100 degrees Celsius
Electrical life	100,000 cycles minimum at 30A; 12V DC
Shock resistance	10G
Switching contacts	hard silvered, minimum voltage drop
Housing	polybutylene terephthalate

Warranty and repair information

One year limited warranty.

We warrant our products to be free of defect in material and workmanship for the period of one year from the date of original purchase. While we make every effort to carefully manufacture our products to the highest standards of quality, occasionally parts may be found to be missing, defective or damaged.

If you have a defective part, return the product to us, shipping charges prepaid. Include proof of purchase and a written explanation of the trouble. During the warranty period, we will, at our option, either repair or replace the product free of charge.

This warranty does not cover damage due to improper installation or use, negligence, accident, or unauthorized service, or to incidental or consequential damages beyond the products themselves. Implied warranties are limited in duration to the life of this limited warranty.

Changes or modification not expressly approved in writing by the producer may void the user's authority to operate this equipment.

DriveRight is a trademark of Davis Instruments Corp., Hayward CA, USA.