



intelligent motion systems, inc.  
Excellence in Motion™

## OPT4-232/OPT4-232-DE/OPT4-DE

**OPTION BOARD FOR THE IM483I & IM483IE DRIVERS**

### INSTALLATION GUIDE


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#### OPT4 Installation Guide

The primary function of this OPT4 Installation Guide is to acquaint the user with the connecting the OPT4 Option Board to the IM483I or IM483IE Microstepping Drivers. The full IM483I/IM483IE product manual is available in Acrobat PDF format on the IMS Product CD, shipped with the product. It also may be downloaded from the IMS web site at <http://www.imshome.com>.

#### Notes And Warnings

Please observe the following when handling, connecting and using your OPT4 Option Board and IM483I/IM483IE Driver. Failure to observe these points may result in damage to the driver. All warranty and disclaimer information is located in the full product manual on the CD and should be referenced for more information.



**WARNING!** The IM483I and IM483IE components are sensitive to Electrostatic Discharge (ESD). All handling should be done at an ESD protected workstation.

#### Option Board Identification

##### For the IM483I and IM483IE

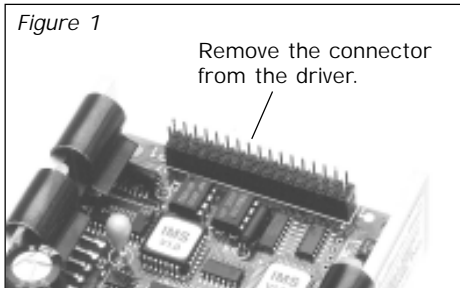
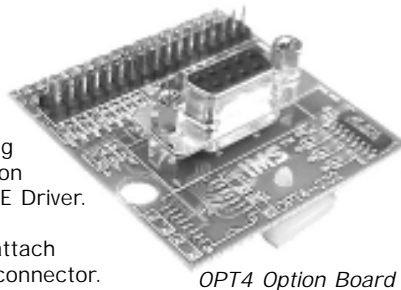
OPT4-232 ..... RS232 to RS422 Converter

##### For the IM483IE Only

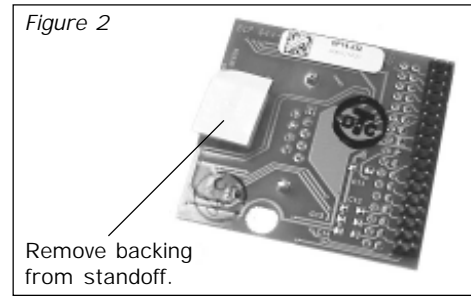
OPT4-DE ..... Differential Encoder  
OPT4-232-DE ..... RS232 to RS422 Converter  
with Differential Encoder

#### Installing The OPT4

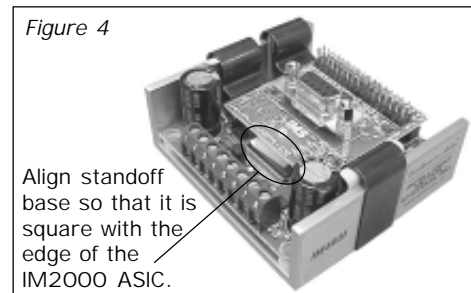
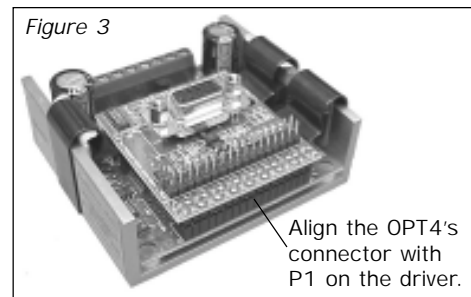
1. Begin by removing the existing 34 pin connector from location P1 on the IM483I or IM483IE Driver. (See Figure 1)  
The OPT4 Option Board will attach to the driver in place of this connector.



2. Peel the backing from the standoff on the bottom of the OPT4 Option Board. (See Figure 2)

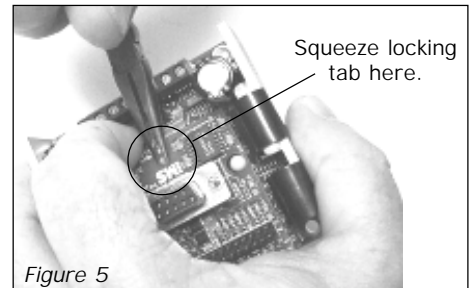


3. Align the OPT4 Option Board with P1 on the IM483I or IM483IE Driver. While doing this, align the standoff base so that it is square with the IM2000 ASIC on the driver. (See Figures 3 & 4)
4. Press the OPT4 Option Board firmly into place.



#### Removing The OPT4

1. Gently squeeze the locking tab on the standoff with a pair of needle nose pliers. (See Figure 5)



2. Gently pull upward on the OPT4 Option Board to release it from the locking tab.
3. Gently remove the Option Board from the driver by rocking it back and forth. **DO NOT PULL THE BOARD OFF BY FORCING IT TO ONE SIDE!**