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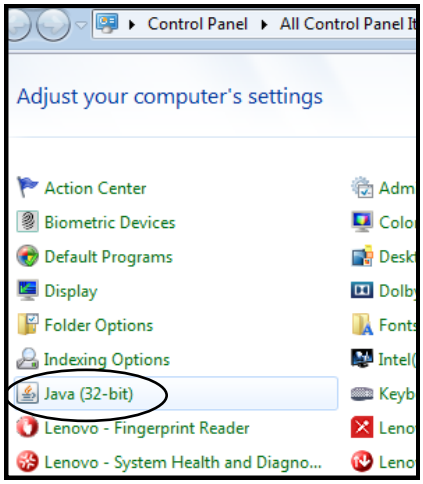
InterMotive Download Manager Instructions

Introduction

The Intermotive Download Manager (IDM) is a free software application (see www.intermotive.net) which allows users to update Intermotive modules with new firmware or configuration files. It uses the Intermotive download cable to communicate with the module. The IDM can be used on the bench by powering the module with the AC Adapter provided in the download kit, or on the vehicle with a laptop with the module plugged into the OBDII.



Checking Java version in Windows Control Panel

Requirements:

- The Java Runtime Environment (Version 6 Update 18 or newer) must be installed on your computer (likely already present). You can get the most recent version from **http://java.com/en/download/manual.jsp**.
- Determine which Java version (32 or 64 bit) you have by going to **Control panel > All Control Panel Items** (see screen shot).

Installation:

- There is a driver required for your PC to use the download cable. This driver can be found at: **www.ftdichip.com/Drivers/VCP.htm**. Click "setup executable" to the right of the Windows operating system. Click, "Save File" and then extract it. It should automatically load to the proper location on your PC.
- Create an "Intermotive" folder on your PC and download the correct IDM (32 or 64 bit version, depending on your Java version) from **www.intermotive.net**.
- Unzip the InterMotive Download Manager zip file. (Right click, Extract All)
- Create a shortcut on your desktop (right click Intermotive Download manager.exe > Create Shortcut…)
- Double click the InterMotive Download Manager desktop shortcut to launch the program.
- If the program does not launch properly, make sure you've loaded the correct IDM version (32 or 64 bit) based on your Java version.

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IDM-120720-INS

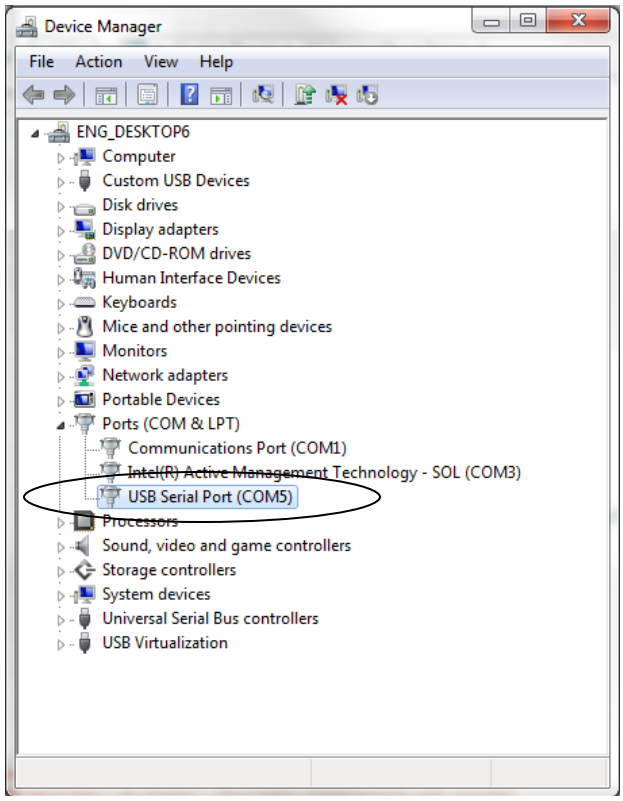
Selecting the COM port

Windows maps "COM ports" to USB ports so "com type" applications can use your PC's USB capabilities. To do this, you must first plug in the download cable into a USB port, then tell the application (IDM) which COM port Windows has mapped to the USB port. Whenever you run the IDM, you must click on the COM port drop down menu and select the appropriate COM port. Usually this is the highest numbered COM port. You can easily test this with a module connected and powered up by clicking the IDM "Get" button. No response may indicate an incorrect COM port selection in the IDM.

IDM application screen

You can determine which COM port Windows has mapped by

- Opening the Windows "Start Menu" and click on "Control Panel".
- Open the "Device Manager" and select/expand "Ports(COM & LPT)"
- Locate "USB Serial Port (COM#)"
- the "#" will be the COM number which must be selected in the IDM application.



Loading a Configuration file *into* a module:

Intermotive configuration files allow you to customize how your module operates. There are numerous operating parameters that can be changed per your requirements. Configuration files can be created by Intermotive or in many cases by the builder/upfitter using Graphical User Interface applications written specific to your module. See www.intermotive.net. Configuration files use .IMC and .IMS file name extensions.

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IDM Instructions (continued)

Loading a configuration file *into* a module (cont)

The following assumes you have the IDM running and have selected the appropriate COM port and the module is responding to the IDM (see previous section on selecting the COM port).

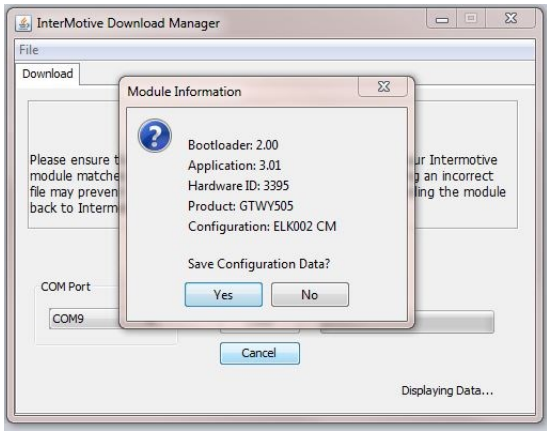
1. Click the Open File button and select the desired configuration file. (The file must already be loaded on the computer).
2. Power the module down by unplugging the Data Link/Power connector on the module. This connector is marked "DLC" on most modules.
3. Click the IDM load button. It will then wait to establish communication with the module.
4. Reconnect the Data Link / Power adapter to the module.
5. The IDM progress bar will display status and indicate when the operation is done. This usually only takes a second or two to complete.
6. You can program additional modules by repeating steps 3 through 5

IDM application screen

Extracting and saving a Configuration file *from* a module:

The following assumes you have the IDM running and have selected the appropriate COM port and the module is responding to the IDM (see previous section on selecting the COM port).

1. Power the module down by unplugging the Data Link/Power connector on the module. This connector is marked "DLC" on most modules.
2. Click the "Get" button on the IDM software.
3. Power the module back up by reconnecting the Data Link / Power adapter to the module.
4. A Module Information box will appear in the IDM.
5. Clicking "Yes" will save the configuration to a file.
6. Clicking "No" will return the user to the IDM main screen.
7. Enter a location and file name and save the file.



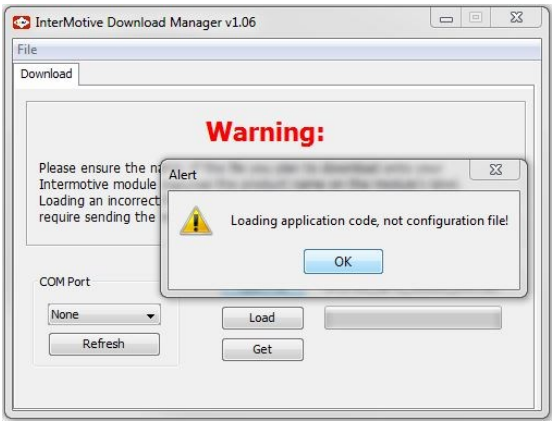
IDM Instructions (continued)

Loading a new Application file into a module:

Loading a new application file allows the user to update a module with the latest firmware available. This may be needed when there is a model year change, a new engine, or to support a new chassis. In some cases, new features may be added. New firmware versions may be available at www.intermotive.net or through Intermotive Tech Support. Firmware files use the .HEX file name extension.

The following assumes you have the IDM software running and have selected the appropriate COM port and the module is responding to the IDM (see section on selecting COM port).

1. Power the module down by unplugging the Data Link/Power connector on the module. This connector is marked "DLC" on most modules.
2. Click the IDM Open File button.
3. Open the .HEX file you wish to load into the module. (The file must already be loaded on the computer.)
4. A warning window will pop up, letting you know that you are about to load application code which can change basic functionality of the module, which is different from loading a configuration file. If you do not understand the difference, call Intermotive Tech Support for assistance.
5. Click OK if you are sure you have the correct application code HEX file for your module and want to load it. Note that although different product modules may look identical from the outside, THEY ARE DIFFERENT. You cannot load application code from one product into another and expect it to work properly! Doing so could render the module inoperable!
6. Click the load button. The IDM will wait for the module to start responding.
7. Power the module back up by reconnecting the Data Link/ Power adapter to the module.
8. The programming progress bar will display status. This process may take up to five minutes.
9. The IDM software will indicate when the download process is complete and successful.



Application firmware load warning message

IDM application screen

Desktop Power Supply - The Desktop Power Supply is used to power a module when not plugged into a vehicle. It consists of a 120VAC to 12VDC wall adapter with a number of connector options, depending on which module you have. The wall adapter itself has a female (gender is based on pins, not the housing) 6-Pin Minifit Molex connector which will mate with many Intermotive modules. Also provided are adapters for converting to a 4 pin Molex Minifit, and an 8 pin Molex Microfit connector. Choose the setup which is appropriate for your module.

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INTERMOTIVE VEHICLE CONTROLS

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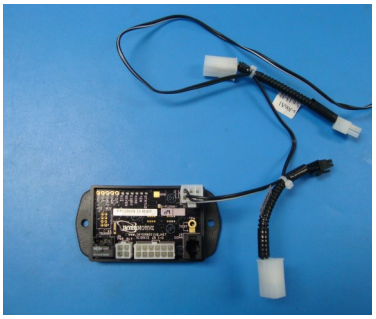
InterMotive Download Manager Desktop Power Supply

Introduction:

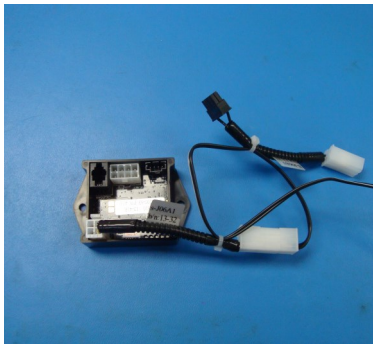
The InterMotive Download Manager Desktop Power Supply is used to supply power to a module when not plugged into a vehicle. The Module Desktop Power Supply consists of a 120VAC to 12VDC wall adapter with a number of connector options, depending on which Intermotive module you have. The wall adapter itself has a female (gender is determined by the pins, not the housing) 6-Pin Minifit Molex connector which will mate with many Intermotive modules. Also provided are adapters for converting to a 4 pin Molex Minifit, and an 8 pin Molex Microfit connector. Choose the setup which is appropriate for your module.

GTWY, EMS, NFPA modules: (6-Pin Minifit Molex connector)



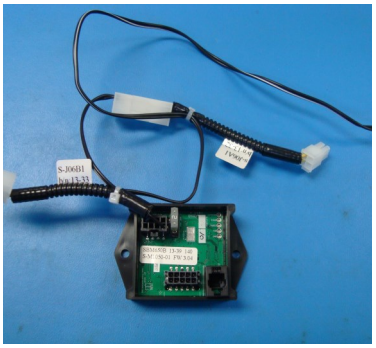
- Locate the Female 6-Pin Minifit Molex connector on the module.
- Connect the Module Desktop Power/Ground Supply Male 6-Pin Minifit Molex connector to the modules 6-Pin female connector.
- Plug the Module Desktop Power/Ground Supply inverter into a 120V AC power source.

ILIS, LOCK, MIM modules: (4-Pin Minifit Molex connector)



- Locate the Female 4-Pin Minifit Molex connector on the module.
- Connect the Module Desktop Power/Ground Supply Female 6-Pin Minifit Molex connector to Male 4-Pin Minifit Molex connector adapter harness to Module Desktop Power/Ground Supply Male 6-Pin Minifit Molex connector.
- Connect the Module Desktop Power/Ground Supply 6-Pin to 4-Pin adapter harness to the modules 4-pin female connector.
- Plug the Module Desktop Power/Ground Supply inverter into a 120V AC power source.

SBM modules: (8-Pin Microfit Molex connector)



- Locate the Female 8-Pin Microfit Molex connector on the module.
- Connect the Module Desktop Power/Ground Supply Female 6-Pin Minifit Molex connector to Male 8-Pin Microfit Molex connector adapter harness to Module Desktop Power/Ground Supply Male 6-Pin Minifit Molex connector.
- Connect the Module Desktop Power/Ground Supply 6-Pin to 8-Pin adapter harness to the modules Female 8-pin Microfit Molex connector.
- Plug the Module Desktop Power/Ground Supply inverter into a 120V AC power source.

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