



Flasher LT

User's Manual



BOSCH

Contents

2 Introduction

Flasher LT as a PassThru Device

3 Getting To Know Flasher LT

4 Setting Up The Flasher LT

Installing the Flasher LT

Updating the Drivers and Firmware

6 Reprogramming With J2534

GM SPS

7 Specifications and Pinout

Vehicle Connector

8 Troubleshooting and Support

If you need to generate a logfile for debugging

If all else fails...

Introduction

The Flasher LT offers users a J2534 compliant device at a low cost. The device features a direct connection to a laptop or desktop PC via a USB2.0 full speed connection. All of the electronics are contained in the OBD-II connector shell, making for a compact and rugged vehicle communications solution.

The Flasher LT is powered by the USB interface, so there's no reinitialization necessary if the device is unplugged from the vehicle interface.

For additional information regarding J2534 reprogramming visit our website at www.boschdiagnostics.com.



Getting to Know Flasher LT

There are 4 variants of the Flasher LT J2534 device:

- ▶ The Flasher LT-Import supports CAN, ISO-9141, and ISO-14230/KWP2000. (P/N# F00E900078)
- ▶ The Flasher LT-GM supports CAN, J1850 VPW (GM Class 2), and GM Single-Wire CAN protocols. (P/N# F00E900075)
- ▶ The Flasher LT-Ford supports CAN and J1850 PWM (Ford SCP) protocols. (P/N# F00E900076)
- ▶ The Flasher LT-Chrysler supports CAN, J2610 (SCI), and J1850 VPW. (P/N# F00E900077)

Your Flasher LT kit includes: the Flasher LT hardware, a CD including drivers, user's manual, and quickstart guide.



Setting Up the Flasher LT

Installing the Flasher LT

NOTE: The Flasher LT requires Windows 2000 or Windows XP to operate. Windows 95/98 is not supported.

Connect the Flasher LT cable to a USB port on your PC. Windows will detect it automatically by plug-and-play



The Found New Hardware Wizard will open automatically. Select “No, not this time” and click next. Then click “Install from a list or specific location” and click next. Insert the Flasher LT drivers CD, make sure “Search removable media” is selected and click next.

The wizard will install all necessary drivers. A dialog box may pop-up to indicate that Flasher LT has not passed Windows Logo testing. Click “Continue Anyway”.

Updating the Drivers and Firmware

Both the Windows drivers and Flasher LT firmware are field upgradable. The Windows J2534 drivers and the Flasher LT firmware versions are locked to each other. If you update the Windows drivers, you must update the Flasher LT to a matching firmware version. Updates are regularly released which include new features, improve performance, and correct problems. These updates can be found at <http://www.boschdiagnostics.com/>

Updating the Flasher LT Windows Drivers

- ▶ Make sure the drivers are accessible on the PC being updated, either by having a drivers CD in the CD-ROM device or unzipping the drivers file from the Bosch Diagnostics website to a known location on the computer.
- ▶ Connect the Flasher LT to a USB port on your PC.
- ▶ Open the Windows Control panel, double click on the System icon, choose the Hardware tab, and click on Device Manager.
- ▶ From the Device Manager Window that opens up, click on the + sign next to Universal Serial Bus Controllers.
- ▶ Locate and right-click the Flasher LT entry and choose Update Driver.
- ▶ Choose “No, not this time” if prompted to connect to Windows Update to search for drivers.
- ▶ If Windows XP, select “Install from a List or Known Location”, if Windows 2000 this will be automatic.
- ▶ Check “Include this location in the search” and browse to the directory where the Bosch Diagnostics Drivers were unzipped to and click NEXT

The new Windows drivers should install normally.

Updating the Flasher LT Firmware

To update the Flasher LT Firmware from the Windows GUI:

Ensure the Flasher LT is not connected to a vehicle and plug it into the USB port of a PC.

Navigate to the “Troubleshooting/Reflash” directory of the Flasher LT drivers. Double click the “mreflash” program. A window will open up and the firmware will download to the device. If the download fails, an error message will be displayed.

Reprogramming With J2534

Since J2534 allows multiple devices to be connected at once, you must tell the software you want to use the Flasher LT. Every application will have a different way to select the device, so consult the OEM J2534 User's Guide.

GM Service Programming (SPS)

If you are using GM's TIS2WEB, login to the service site and click on "Service Programming System" once the initial page has loaded. A new window will open running TIS2WEB's version of SPS

1. When using the FLASHER LT you can click "Skip" when confronted with the Tech2 software update window.
2. When the Service Programming System window appears, click on settings in the bottom left corner of the window.
3. Click on the "Diagnostic" tab at the top and select the "J2534 FLASHER LT VPW/CAN" from the device drop down menu.
4. With the FLASHER LT connected to the vehicle and the key on, you can now check connectivity by clicking "Test Connection."
5. Now click "Ok" at the bottom. Back at the Service Programming System window Select the "J2534 FLASHER LT VPW/CAN" under the "Select Diagnostic Tool" heading. Select "Replace" or "Replace and Program ECU," and click next.
6. You can now re-flash the vehicle.

Specifications and Pinout

Vehicle Connector

Mating connector: Standard OBD-II

Pin #	Flasher LT-Import	Flasher LT-GM	Flasher LT-Ford	Flasher-LT Chrysler
1		SWCAN		
2		J1850	J1850+	J1850
3				
4				
5	Signal GND	Signal GND	Signal GND	
6	CAN+	CAN+	CAN+	CAN+ / SCI RX
7	K-Line			SCI TX
8				
9				SCI RX
10			J1850-	
11				
12				SCI RX
13			Prog Voltage	
14	CAN-	CAN-	CAN-	CAN- / SCI RX
15	L-Line			SCI TX
16	Battery Voltage	Battery Voltage	Battery Voltage	Battery Voltage

Troubleshooting and Support

If the red LED is on continuously, this usually indicates that the drivers have either not been installed or have not been installed correctly.

If the green LED is flashing, but you cannot communicate with the Flasher LT, use the “minfo” utility on the drivers disk. It will show if the Flasher LT is connected, the type of Flasher LT, and the revisions of the boot loader and firmware on the device. If “minfo” indicates no devices are found, check the Control Panel Device Manager to see if Windows is indicating some sort of error with the device.

If no LEDs are lit, this may indicate a failure of the Flasher LT device. Insure that the USB port that it is plugged into is good by using another USB device on the USB port.

Note: LED's are best viewed through the transparent flexible cord at the base of the Flasher LT housing. LED visibility may be reduced in direct sunlight.

If these issues have been addressed, verified, and you are still having trouble, please email:

Techsupport.Diagnostics@us.bosch.com

or call

Bosch Diagnostics Tech support Hotline @ 800-321-4889 ext 2

Warranty

This product is warranted to be free of defects for one year. If this product fails during the first 12 months due to faulty material or workmanship, it will be replaced or repaired free of charge, at the discretion of the manufacturer.

Defective units being returned to your supplier or to the factory should include proof of purchase date. Any testers that do not function due to misuse or abuse will be subject to “out of warranty service charges”.

For warranty return authorization call:

1-800-321-4889

For warranty returns and repairs, ship to the following address:

Bosch Diagnostics
Robert Bosch LLC
Repair Dept.
2800 S. 25th Avenue
Broadview, IL 60155-4594

Robert Bosch LLC

Automotive Aftermarket Division
Diagnostics Business Unit
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