



SOFTWARE UPDATE WITH A PC APPLICATION – FLASH PROGRAMMER TECHNICAL CERTIFICATION TRAINING

Field Engineering | 2010

LifeFitness
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Course Objectives

- » Life Fitness Flash Programmer – Introduction
 - ◆ Reasons for development
 - ◆ Items needed for the software update
 - ◆ Items that can be purchased from Life Fitness
 - ◆ What you must buy on your own
- » Upgrade Tools – An Overview
 - ◆ Software
 - ◆ Hardware
- » Getting the Necessary Hardware and Software
- » How to Program a Console
- » Common Issues
- » Summary

Life Fitness Flash Programmer – Introduction

» Reasons for development

◆ Cost

- > The widget is expensive for the tech. and LF

◆ Improved quality of service

- > Ability to access all of the in-field updatable software versions from the lftechsupport.com website

» Items needed for the console software update

◆ Software

- > Life Fitness Flash Programmer
- > Non-blank console

◆ Hardware

- > USB-to-serial converter cable
- > DB9-to-RJ45 Adapter (AK58-00122-0000)
- > Network patch cable

Note: a network **patch cable** is called a patch cable for a reason of naming consistency with the Information Technology (IT) industry. This cable is a short cable used to connect devices within a space of a small equipment closet – for our purposes this cable **length ≤ 8 feet**.

Life Fitness Flash Programmer – Introduction (cont.)

- » Items that can be purchased from Life Fitness
 - ◆ DB9-to-RJ45 Adapter (AK58-00122-0000)
 - ◆ USB-to-serial converter cable (0017-00021-3153)
- What you must buy on your own
 - ◆ Network patch cable

Upgrade Tools – An Overview

- » Software (PC/Laptop application K87B-12601-0000)
 - ◆ To be obtained from LFTechSupport.com website
 - ◆ Very easy to install:
 - > Once you get the LFFlashProgrammerSetup.msi file follow instructions and complete the installation process
 - ◆ Very easy to use (brief overview):
 - > Connected Console to the PC/laptop and power it up
 - > Know which serial COM port the USB-to-serial cable was mapped to, select that port in the application
 - > Choose the module that you want to update
 - > Select a suitable file
 - > Proceed with the update as prompted by the application
 - > More on this in slides titled **Upgrade Tools in Detail**

Upgrade Tools – Brief Overview (cont.)

» Hardware

- ◆ The DB9-to-RJ45 Adapter (AK58-00122-0000)
 - > Converts DB9 output to RJ45
- ◆ USB-to-DB9 serial converter cable
 - > Adds a COM port to a laptop that does not have the serial port.
Note:
If your machine has the serial port you don't need to buy this cable
 - > Electronic components make it non-trivial to work with
 - > To make it work drivers must be installed on the PC/Laptop
- ◆ Network patch cable
 - > Connects to the console and the DB9-to-RJ45 adapter

Upgrade Tools – Brief Overview (cont.)

- » Hardware pictorial representation
 - ♦ The DB9-to-RJ45 Adapter (AK58-00122-0000)



Upgrade Tools – Brief Overview (cont.)

- » Hardware pictorial representation (cont.)
 - ◆ USB-to-DB9 serial converter cable



Upgrade Tools – Brief Overview (cont.)

- » Hardware pictorial representation (cont.)
 - ♦ Network patch cable

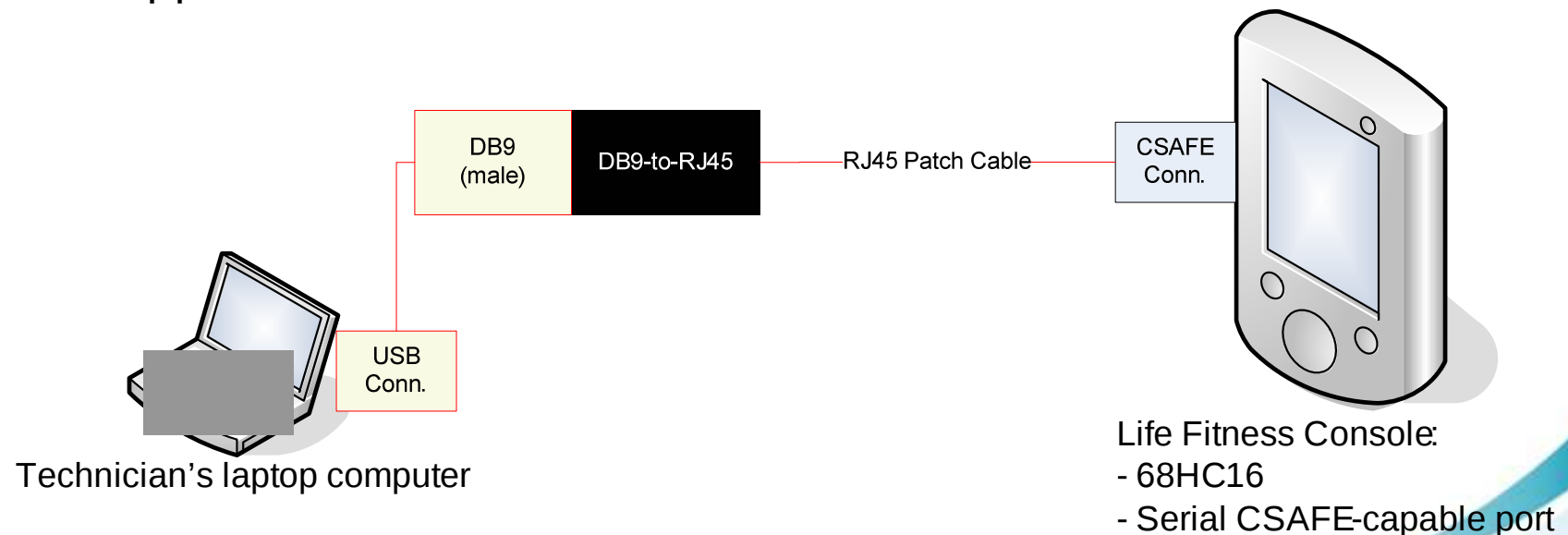


Getting the Necessary Hardware and Software

- » In general, Life Fitness can supply you with the LF Flash Programmer application and with:
 - ◆ DB9-to-RJ45 Adapter (AK58-00122-0000) – pricing to be set up
 - ◆ USB-to-serial converter cable – service part number to be set up
- » Target software is available from Life Fitness website at: www.lftechsupport.com

How to Program a Console – Brief Overview (LF Flash Programmer Installed)

- » Obtain the desired target code from LFTechSupport.com web site
- » Connect the hardware
- » Launch LF Flash Programmer
- » Follow steps as prompted by the LF Flash Programmer Application



Which Consoles Can be Updated?

- » Products equipped with the **serial port used for CSAFE** communication
- » You will be able to download code for the following products:
 - ♦ Some of LF's most popular treadmills:
 - > TST, board: B084-92185-G006, software PN: K58P-12616-0000
 - > TTJ, board: B084-92184-J004, software PN: K58P-12616-0000
 - > ATT, board: B084-92184-J004, software PN: K58P-12616-0000
 - > TCT, board: B084-92184-J004, software PN: K58P-12616-0000
 - > TSS, board: B084-92184-J004, software PN: K58P-12616-0000
 - > TTD, board: B084-92184-J003, software PN: K58P-12616-0000
 - > TTW, board: B084-92184-J005, software PN: K58P-12616-0000
 - > TTL, board: B084-92184-J005, software PN: K58P-12616-0000

Note:

One software part number used in many treadmills.

Which Consoles Can be Updated? (cont.)

» You will be able to download code for the following products (cont.):

♦ Some of LF's most popular bikes:

- | | | |
|---------|-------------------------|------------------------------|
| > LRI, | board: B084-92219-E001, | software PN: K63H-12604-0000 |
| > CCS, | board: B084-92219-E001, | software PN: K63H-12604-0000 |
| > CCU, | board: B084-92219-E001, | software PN: K63A-12610-0000 |
| > LCI , | board: B084-92219-E001, | software PN: K63H-12604-0000 |
| > CCP , | board: B084-92219-E001, | software PN: K63H-12604-0000 |
| > CEM, | board: B084-92219-E001, | software PN: K63A-12610-0000 |

Two part numbers for bikes:

K63H-12604-0000

K63A-12610-0000

Which Consoles Can be Updated? (cont.)

- » You will be able to download code for the following products (cont.):
 - ◆ Some of LF's most popular cross trainers:
 - > CLX, board: A084-92219-A023R, software PN: K61B-12614-0000
 - > XTD, board: B084-92219-E004, software PN: K61B-12614-0000
 - > ACJ , board: B084-92219-E004, software PN: K61B-12614-0000
 - > AXB, board: B084-92219-E004, software PN: K61B-12614-0000
 - > XTN, board: A084-92219-A023R, software PN: K61B-12614-0000

One part number used in many cross trainers
K61B-12614-0000

Common Issues

- » Downloading wrong code into the console – yes, you can recover from that mistake
- » Downloading the wrong version of code into the console
- » Forgetting that the target file is a zipped object and that it has to be unzipped prior to performing a download

Summary

- » In this presentation we had discussed the following subjects:
 - ◆ Introduced the LF Flash Programmer
 - ◆ Discussed the necessary hardware and software for reprogramming and how to get it
 - ◆ Discussed the reprogramming process
 - ◆ Reviewed for which consoles you can get the target software
 - ◆ Discussed some common pitfalls and did the hands-on presentation

Questions





THANK YOU!

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