

FitPlus™ for Windows®
Fit Test Software

User's Manual

December 1996
PN 1980284 Rev. A

**FitPlus™ for Windows®
Fit Test Software**

User's Manual

*December 1996
PN 1980284 Rev. A*

SHIP TO:

TSI Incorporated
500 Cardigan Road
Shoreview, MN 55126-3996
USA

MAIL TO:

TSI Incorporated
P.O. Box 64394
St. Paul, MN 55164
USA

E-mail address:

health.safety@tsi.com

Website:

<http://www.tsi.com>

U.S.

Sales and Customer Service:

(800) 926-8378/(612) 490-2760

Fax:

(612) 490-2704

INTERNATIONAL

Sales and Customer Service:

(001 612) 490-2760

Fax:

(001 612) 490-2704

Copyright ©

TSI Incorporated / December 1996 / All rights reserved.

Address

TSI Incorporated / 500 Cardigan Road / P.O. Box 64394 / St. Paul, MN 55164 / USA

Fax No.

(612) 490-2704

Limitation of Warranty and Liability

Seller warrants that this product, under normal use and service as described in the operator's manual, shall be free from defects in workmanship and material for a period of twelve (12) months, or the length of time specified in operator's manual, from the date of shipment to the customer. This limited warranty is subject to the following exclusions:

- a. Batteries, hot wire or hot film sensors and certain other components when indicated in specifications are warranted for a period of 90 days from the date of shipment to the customer.
- b. With respect to any repair services rendered, Seller warrants that the parts repaired or replaced will be free from defects in workmanship and material, under normal use, for a period of 90 days from the date of shipment to the customer.
- c. Seller does not provide any warranty on finished goods manufactured by others. Only the original manufacturer's warranty applies.
- d. Unless specifically authorized in a separate writing by Seller, Seller makes no warranty with respect to, and shall have no liability in connection with, any goods which are incorporated into other products or equipment by the Buyer. All goods returned under warranty shall be at the Buyer's risk of loss, Seller's factory prepaid, and will be returned at Seller's risk of loss, Buyer's factory prepaid.

The foregoing is IN LIEU OF all other warranties and is subject to the conditions and LIMITATIONS stated herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE.

THE EXCLUSIVE REMEDY OF THE USER OR PURCHASER, AND THE LIMIT OF THE LIABILITY OF SELLER FOR ANY AND ALL LOSSES, INJURIES, OR DAMAGES IN CONNECTION WITH THIS PRODUCT (INCLUDING CLAIMS BASED ON CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT, OR OTHERWISE) SHALL BE THE RETURN OF THE PRODUCT TO THE FACTORY OR DESIGNATED LOCATION AND THE REFUND OF THE PURCHASE PRICE, OR, AT THE OPTION OF SELLER, THE REPAIR OR REPLACEMENT OF THE PRODUCT. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. SELLER SHALL NOT BE RESPONSIBLE FOR INSTALLATION, DISMANTLING, REASSEMBLY OR REINSTALLATION COSTS OR CHARGES. NO ACTION, REGARDLESS OF FORM, MAY BE BROUGHT AGAINST THE SELLER MORE THAN ONE YEAR AFTER THE CAUSE OF ACTION HAS ACCRUED.

The purchaser and all users are deemed to have accepted the terms of this LIMITATION OF WARRANTY AND LIABILITY, which contains the complete and exclusive limited warranty of Seller. This LIMITATION OF WARRANTY AND LIABILITY may not be amended or modified nor may any of its terms be waived except by a writing signed by an authorized representative of Seller.

U.S. GOVERNMENT RESTRICTED RIGHTS. The SOFTWARE and documentation are provided with RESTRICTED RIGHTS. Use, duplication, or disclosure by the Government is subject to the restrictions set forth in the "Rights in Technical Data and Computer Software" clause at 252.227-7013 and the "Commercial Computer Software - Restricted Rights" clause at 52.227-19.

Service Policy

Knowing that inoperative or defective instruments are as detrimental to TSI as they are to our customers, our service policy is designed to give prompt attention to any problems. If any malfunction is discovered, please contact your nearest sales office or representative, or call TSI's Health and Safety Instruments customer service department at (800) 926-8378 (USA) or (001 612) 490-2760 (International).

The installation program used to install FitPlus™ for Windows, INSTALL, is based on licensed software provided by Knowledge Dynamics Corp, P.O. Box 780068, San Antonio, Texas 78278 (USA). INSTALL is Copyright © 1987-1993 by Knowledge Dynamics Corp which reserves all copyright protection worldwide. INSTALL is provided to you for the exclusive purpose of installing FitPlus for Windows. TSI Incorporated has modified the software as provided by Knowledge Dynamics Corp, and thus the performance and behavior of the INSTALL program shipped with FitPlus for Windows may not represent the performance and behavior of INSTALL as shipped by Knowledge Dynamics Corp. TSI Incorporated is exclusively responsible for the support of FitPlus for Windows, including support during the installation phase. In no event will Knowledge Dynamics Corp provide any technical support for FitPlus for Windows.

TSI LICENSE AGREEMENT

This is a legal agreement between you, the end user, and TSI Incorporated. **BY INSTALLING THE SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT.** IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, PROMPTLY RETURN THE UNOPENED DISK PACKAGE AND THE ACCOMPANYING ITEMS (including written materials and binders or other containers) to TSI Incorporated.

TSI SOFTWARE LICENSE

1. GRANT OF LICENSE. TSI grants you the right to use one copy of the enclosed TSI software program (the "SOFTWARE") with one PORTACOUNT Plus Model 8020. TSI requires one copy of FitPlus for Windows software to be licensed for each PORTACOUNT Plus Model 8020 used with FitPlus for Windows software. For example; if you own two or more PORTACOUNTS, and plan to use them with FitPlus for Windows software, you must license the corresponding number of separate copies of FitPlus for Windows. FitPlus for Windows software may be installed on more than one computer or on a network as long as the above requirement is met.

2. COPYRIGHT. The SOFTWARE is owned by TSI and is protected by United States copyright laws and international treaty provisions. Therefore, you must treat the SOFTWARE like any other copyrighted material (e.g., a book or musical recording).

3. OTHER RESTRICTIONS. You may not rent or lease the SOFTWARE, but you may transfer the SOFTWARE and accompanying written material on a permanent basis, provided you retain no copies and the recipient agrees to the terms of this Agreement. You may not reverse-engineer, decompile, or disassemble the SOFTWARE.

4. U.S. GOVERNMENT RESTRICTED RIGHTS. The SOFTWARE and documentation are provided with RESTRICTED RIGHTS. Use, duplications, or disclosure by the Government is subject to the restrictions set forth in the "Rights in Technical Data and Computer Software" Clause at 252.227-7013 and the "Commercial Computer Software - Restricted Rights" clause at 52.227.19.

Contents

ABOUT THIS MANUAL	v
Introduction	v
Organization	v
Conventions.....	v
Related Publications.....	vi
Trademarks.....	vi
CHAPTER 1.....	1
Introducing FitPlus For Windows Fit Test Software.....	1
FitPlus for Windows Features.....	1
FitPlus for Windows Tasks	1
CHAPTER 2.....	3
Getting Started	3
Installing FitPlus for Windows Software.....	3
Hardware Requirements	3
Software Requirements.....	3
Installation Procedures	3
Installing FitPlus for Windows with Windows 3.x	3
Installing FitPlus for Windows with Windows 95	4
Connecting the PORTACOUNT Plus	4
Using the 25-pin Cable with the 25-pin Computer Port	4
Using the 25-pin Cable with the 9-pin Computer Port	4
Using the 9-pin Cable with the 9-pin Computer Port	4
Using the 9-pin Cable with the 25-pin Port	5
Setting Up the PORTACOUNT Plus	5

CHAPTER 3.....	7
Conducting a Fit Test - Basic Procedures	7
Before you Begin the Fit Test	7
Step 1 - Select a Person.....	10
Step 2 - Select a Respirator	11
Step 3 - Select a Protocol	13
Step 4 - Information	15
Step 5 - Conducting the Fit Test	16
Alternate Step 5 - Manual Entry	17
Step 6 - Fit Test Results (optional)	18
Summary	18
CHAPTER 4.....	19
Using the FitPlus for Windows Menu Options	19
Using the File Menu.....	22
Copying a Database	22
Merging Databases	24
Exporting Databases	26
Exiting FitPlus for Windows Software.....	28
Using the Database Menu	29
Open and Updating the Default Database Files.....	29
Updating the People Database File	30
Updating the Respirator Database	33
Updating the Protocol Database	36
Viewing the Fit Test Database	39
Changing the Default Database Files	44
Creating New Default Database Files.....	46
Using the PORTACOUNT Menu.....	47
Conducting a Fit Test	47
Displaying Realtime Fit Factors	47
Performing Daily PORTACOUNT Checks	49
Using the Report Menu	51
Report Examples.....	57
Example 1 - Next Due Report	57
Example 2 - Single Page Fit Test Report	57
Example 3 - User Defined Reports.....	58
Example 4 - Reports Based on FitPlus for DOS Data Files	58
Using the Setup Menu.....	59
Selecting the Communications Port.....	59
Changing the Default Fit Test Options.....	60
Automatic Save and Automatic Print	61
Automatic Termination	61
Signature Lines.....	61

Figures

FIGURE 3-1. FITPLUS FOR WINDOWS MAIN MENU.....	8
FIGURE 3-2. DAILY CHECKS DIALOG BOX	9
FIGURE 3-3. SELECT A PERSON - STEP 1.....	10
FIGURE 3-4. SELECT A RESPIRATOR - STEP 2.....	11
FIGURE 3-5. RESPIRATOR DETAILS DIALOG BOX	12
FIGURE 3-6. SELECT A PROTOCOL - STEP 3.....	13
FIGURE 3-7. PROTOCOL DETAILS DIALOG BOX.....	14
FIGURE 3-8. INFORMATION - STEP 4 OF 6	15
FIGURE 3-9. FIT TEST - STEP 5.....	16
FIGURE 3-10. MANUAL ENTRY - ALTERNATE STEP 5	17
FIGURE 3-11. FIT TEST RECORD	18
FIGURE 4-1. MAIN MENU.....	19
FIGURE 4-2. TOOLBAR BUTTONS.....	21
FIGURE 4-3. COPY DATABASE DIALOG BOX.....	22
FIGURE 4-4. SELECT SOURCE DATABASE FILE DIALOG BOX	23
FIGURE 4-5. MERGE DATABASES DIALOG BOX.....	24
FIGURE 4-6. EXPORT DATABASE DIALOG BOX.....	26
FIGURE 4-7. SELECT DESTINATION FILE DIALOG BOX - EXPORT DATABASE.....	28
FIGURE 4-8. PEOPLE DATABASE DIALOG BOX.....	30
FIGURE 4-9. DATABASE SEARCH DIALOG BOX	32
FIGURE 4-10. RESPIRATOR DATABASE DIALOG BOX.....	33
FIGURE 4-11. PROTOCOL DATABASE DIALOG BOX	36
FIGURE 4-12. FIT TEST DATABASE DIALOG BOX.....	39
FIGURE 4-13. PROTOCOL INFORMATION	42
FIGURE 4-14. RESPIRATOR INFORMATION	42
FIGURE 4-15. COMPLETE FIT TEST RESULTS	43
FIGURE 4-16. SETUP/CREATE DEFAULT DATABASE FILENAMES DIALOG BOX.....	44
FIGURE 4-17. SELECT OR CREATE DEFAULT DATABASE DIALOG BOX	45
FIGURE 4-18. REAL-TIME FIT FACTOR DISPLAY DIALOG BOX	48
FIGURE 4-19. DAILY CHECKS DIALOG BOX	49
FIGURE 4-20. DAILY CHECKS SETTINGS DIALOG BOX	50
FIGURE 4-21. REPORT LIST DIALOG BOX.....	51
FIGURE 4-22. SELECT FIELDS TO USE FOR SORTING DIALOG BOX	54
FIGURE 4-23. SELECT RECORDS TO INCLUDE IN REPORT DIALOG BOX	55
FIGURE 4-24. RENAME REPORT TITLE (OPTIONAL) DIALOG BOX.....	55
FIGURE 4-25. SELECT DATABASE DIALOG BOX.....	56
FIGURE 4-26. SELECT FIELDS TO INCLUDE IN REPORT DIALOG BOX	56
FIGURE 4-28. COMMUNICATIONS PORT DIALOG BOX	59
FIGURE 4-29. FIT TEST OPTIONS DIALOG BOX	60

About this Manual

Introduction

This manual describes how to install, set up, and use FitPlus™ for Windows® Fit Test Software version 1.1 and higher. FitPlus for Windows is intended for use with the PORTACOUNT® Plus Model 8020. Instructions for setting up the PORTACOUNT with FitPlus software appear in Chapter 3, Getting Started.

Organization

This manual is organized as follows:

Chapter	Description
1 Introducing FitPlus for Windows Fit Test Software	Introduces FitPlus for Windows Fit Test Software and describes its functions and features.
2 Getting Started	Provides instructions for installing the FitPlus software and setting up the PORTACOUNT Plus Model 8020.
3 Conducting a Fit Test - Basic Procedures	Provides the basic procedures for conducting a fit test.
4 Using the FitPlus for Windows Menu Options	Provides a detailed description of each of the FitPlus menu options.

Conventions

The following conventions are used throughout this manual:

Convention	Description
Boldface	Menu options and dialog box fields are shown in boldface type.
R	Key names, such as R , are shown in keyboard type.
Underline	Menu items can be selected with the mouse or by pressing the A key and the shortcut key for the menu or option. The shortcut key is underlined on the screen display and in this manual. For example, to select the <u>F</u>ile menu, you can press A F .

Related Publications

When using this manual and FitPlus for Windows software, you may need to refer to your Windows or Windows 95 documentation. You may also need to refer to the TSI *PORTACOUNT Plus Operation and Service Manual*.

Trademarks

- Microsoft, Windows, and Windows 95 are registered trademarks of Microsoft Corporation.
- PORTACOUNT is a registered trademark of TSI Incorporated.
- FitPlus is a trademark of TSI Incorporated.

Chapter 1

Introducing FitPlus For Windows Fit Test Software

FitPlus for Windows fit test software runs under either Windows 3.x or Windows 95. The software is designed for use with the PORTACOUNT Plus Model 8020, and expands the features available with the DOS based version of FitPlus software. This chapter introduces the FitPlus for Windows features, and briefly describes the tasks you can perform with the software.

FitPlus for Windows Features

In addition to the Windows interface, features provided by FitPlus for Windows include:

- Selection of the person to be fit tested from a database using a mouse. You no longer have to re-key the same names again and again.
- Separate databases for employees, respirators, exercise protocols, and fit test results. You also can merge databases, and can add fit-test data manually.
- Expanded report capabilities, including a tickler feature indicating who is due for a fit test. There is also a single page report for each test subject, user-designed reports, and other reports.
- Automated daily diagnostic checks.
- A real-time fit factor display for use in employee respirator training.
- A database locking capability to prevent tampering.

FitPlus for Windows Tasks

FitPlus for Windows software allows you to perform the following tasks. Each task is described briefly. Instructions for performing these tasks appear in Chapter 3, *Conducting a Fit Test*, and Chapter 4, *Using the FitPlus for Windows Menu Options*. The tasks are:

- **Conducting a fit test**
FitPlus for Windows software opens in daily check mode, followed automatically by the first step of the fit test. Fit testing comprises five basic steps: selecting a test subject; selecting a respirator; selecting an exercise protocol; entering mask size and operator information; and running the fit test. An optional sixth step lets you view the fit test results before beginning the next test. These steps are discussed in detail in Chapter 3.
- **Performing daily diagnostic checks**
You can run diagnostic checks on the PORTACOUNT Plus, including the particle check, zero check, maximum fit factor check, and valve check. You either can print or save the results of these checks for permanent record keeping.
- **Conducting respirator training**
The real-time fit factor display assists you in employee respirator training. This feature allows trainees to see the real-time effects of mask positioning and strap tightness while learning proper donning techniques.

- **Viewing, modifying, and printing reports**
FitPlus for Windows software generates reports for fit test subjects, respirators, protocols, fit tests, next due dates, daily check results, and user-defined reports. You have the option of viewing the reports or printing the reports. You also can customize the reports to include specific fields only, or to sort the data in a specific order and specific ranges.
- **Setting up communications ports**
You can select any of four communications ports on your PC for the FitPlus/PORTACOUNT communications, depending on your hardware configuration.
- **Modifying setup options**
You can customize the setup for saving fit test data, printing fit test data, and alerting you to failed exercises and failed overall fit factors.
- **Opening and setting up databases**
There are four default databases: People, Respirator, Protocol, and Fit Test. You can open each of these databases to add, delete, duplicate, or search for information. You can also create new databases.
- **Copying, merging, and exporting databases**
These features allow you to move data from one database to another, to merge two databases, or to export the database to a tab-delimited ASCII file.

FitPlus for Windows software also contains an online help facility.

Chapter 2

Getting Started

This chapter describes how to install FitPlus for Windows software. It also describes how to connect the PORTACOUNT Plus Model 8020 to your computer.

Installing FitPlus for Windows Software

To install FitPlus for Windows, you must have the following minimum hardware and software configurations:

Hardware Requirements

- PORTACOUNT Plus Model 8020
- 386 or higher microprocessor
- 5MB free hard-disk space for program files
- Windows-compatible printer
- Serial port
- Pointing device

Software Requirements

- Microsoft Windows 3.x or Windows 95
- FitPlus for Windows disk

Installation Procedures

The procedures for installing FitPlus for Windows are different for Windows 3.x or Windows 95. Both procedures are included here.

Installing FitPlus for Windows with Windows 3.x

1. Insert the FitPlus disk into drive A:.
2. In the Program Manager, click on the **F**ile Menu and choose **R**un.
3. Type A:SETUP in the Command Line box.
4. Click on **O**K.

The setup procedure creates the TSI Products group if it is not already present on your PC. The FitPlus for Windows icon appears in this group.

Installing FitPlus for Windows with Windows 95

1. Insert the disk into drive A:.
2. Choose **Run** from the **Start** menu.
3. Type A:SETUP in the **Open** bar.
4. Click on **OK**.
5. Follow the installation instructions on the screen.

The setup procedure creates the TSI Products group if it is not already present on your PC. When you select **Programs** from your **Start** menu, **TSI Products** appears on the list. Highlight **TSI products** and then select **FitPlus for Windows**.

Connecting the PORTACOUNT Plus

The PORTACOUNT Plus connects to the serial port on your computer. The PORTACOUNT Plus is shipped with an RS-232 interface cable with an 8-pin RJ 45 modular connector on one end and a 25-pin or 9-pin female connector marked "COMPUTER" on the other end. (Do not confuse this with the TSI printer cable, which has a 9-pin male connector and is marked "PRINTER".) As many computers have more than one serial port and may have either 25-pin or 9-pin connectors, TSI supplies an adapter with the PORTACOUNT Plus to adapt the connector if necessary.

Follow the instructions below to connect your PORTACOUNT Plus to your computer:

Note: IBM-PC compatible serial ports always have pins (male) on the computer side. Ports with holes (female) are not serial ports.

Using the 25-pin Cable with the 25-pin Computer Port

1. Plug the 25-pin RS-232 cable into the 25-pin connector on the back of your computer.
2. Tighten the keeper screws to prevent the cable from accidentally disconnecting.
3. Plug the other end of the cable into the Data Port located on the back of the PORTACOUNT Plus.

Using the 25-pin Cable with the 9-pin Computer Port

1. Connect the small end of the adapter to the 9-pin serial port connector on your computer.
2. Tighten the keeper screws to prevent the cable from accidentally disconnecting.
3. Connect the 25-pin RS-232 cable to the 25-pin end of the adapter.
4. Plug the other end of the cable into the Data Port located on the back of the PORTACOUNT Plus.

Using the 9-pin Cable with the 9-pin Computer Port

1. Plug the 9-pin RS-232 cable into the 9-pin connector on the back of your computer.
2. Tighten the keeper screws to prevent the cable from accidentally disconnecting.
3. Plug the other end of the cable into the Data Port located on the back of the PORTACOUNT Plus.

Using the 9-pin Cable with the 25-pin Port

1. Connect the large end of the adapter to the 25-pin serial port connector on your computer.
2. Tighten the keeper screws to prevent the cable from accidentally disconnecting.
3. Connect the 9-pin RS-232 cable to the 9-pin end of the adapter.
4. Plug the other end of the cable into the Data Port located on the back of the PORTACOUNT Plus.

Setting Up the PORTACOUNT Plus

Before you begin fit testing, you also need to set up the PORTACOUNT Plus. The *PORTACOUNT Plus Operation and Service Manual* contains the instructions you need if you are not already familiar with setting up the instrument.

Chapter 3

Conducting a Fit Test - Basic Procedures

This chapter provides the basic procedures you follow to conduct a fit test using FitPlus for Windows software. These procedures begin by default when you open the software. The chapter discusses what you must do before you begin fit testing, and presents the dialog boxes you must fill in to complete a fit test. The dialog boxes are easy to fill in by following the information on the screen. However, if you need additional information, each dialog box is discussed in detail in Chapter 4, *Using the FitPlus for Windows Menu Options*.

If this is the first time you have used FitPlus for Windows, you must also set the COM (communications) port and set up the fit test options for automatically saving fit test results, automatically printing fit test results, and automatically terminating fit tests. You must do this *before* you begin fit testing. Basic instructions for completing these tasks appear in the next section.

FitPlus for Windows always starts in daily check mode. TSI Incorporated strongly recommends that you run daily checks of the PORTACOUNT Plus before you run the first fit test.

Each fit test includes five steps:

1. Selecting a person to be fit tested from the **People** database.
2. Selecting a respirator from the **Respirator** database.
3. Selecting an exercise protocol from the **Protocol** database.
4. Entering mask size and operator identification information.
5. Running the fit test.

If this is the first time you have used FitPlus for Windows, your **People** and **Respirator** databases will be empty. The instructions in this chapter and the information in Chapter 4 explain how to add records to the databases. FitPlus for Windows provides a **Protocol** database which includes the most commonly used exercise protocols. If your protocol is not in this database, FitPlus also lets you add it.

Before you Begin the Fit Test

Before you start the software, you must make sure the PORTACOUNT Plus is connected to the computer, is on, and is operating properly.

- Check the cable connections to the PORTACOUNT Plus.
- If the PORTACOUNT Plus is not already running, press the ON/OFF key on the to begin the 60-second warm-up cycle.

Then, start the software:

IMPORTANT MESSAGE FOR FIRST-TIME USERS

Start the software as described below, **EXCEPT** do not run the Daily Checks. Click the **Cancel** button in the **Daily Checks** dialog box. When the Step 1 dialog box appears, also click the **Cancel** button. Then, follow the steps below:

1. From the FitPlus main menu (Figure 3-1), select **Setup/Communications Port**. Choose the correct Com port from the dialog box and click on **OK**.
2. Select **Setup/Fit Test Options**. Choose the options you want to apply to your fit tests from the dialog box and click on **OK**.
3. Select **PORTACOUNT/Daily Checks**. Run the daily checks (Figure 3-2). When the checks are complete, click on **OK**.
4. Select **PORTACOUNT/Fit Test**. The first fit test dialog box appears on your screen (Figure 3-3).

You are now ready to begin fit testing.

*Note: Details for the dialog boxes referenced above appear in Chapter 4, Using the FitPlus Menu Options, under the descriptions of the **Setup** and **PORTACOUNT** menus.*



Figure 3-1. FitPlus for Windows Main Menu

- Double-click the FitPlus for Windows icon from your TSI Products group (Windows 3.x), or select **TSI Products/FitPlus for Windows** from the list that appears when you select **Programs** from your **Start** menu. The **Daily Checks** dialog box appears on your screen (Figure 3-2). Run the daily checks at least once a day. When the checks are complete, click on the **OK** button. The first fit test dialog box appears on your screen (Figure 3-3).

*Note: If you did not start the PORTACOUNT before starting the software, or if the PORTACOUNT has not completed the warm-up period, you will receive this message: **PORTACOUNT is not responding**, including suggestions to check the PORTACOUNT and communications cable connections. Start the PORTACOUNT and wait for the countdown. Click on **OK** to continue. You may also select **Cancel** to skip the daily checks.*

You are now ready to begin fit testing.

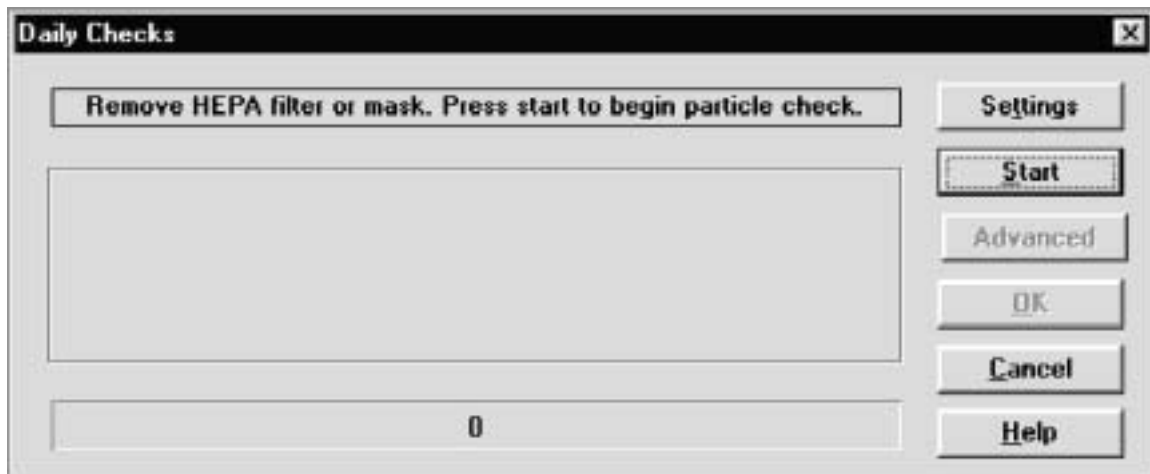


Figure 3-2. Daily Checks Dialog Box

Step 1 - Select a Person

When the **Step 1** dialog box appears, it shows the record of the first person in the **People** database. The records are arranged in alphabetical order.

Note: If this is the first time you have used FitPlus for Windows, your People database will be blank. The following instructions indicate which buttons you must click on to add records to the database. However, you must refer to Chapter 4, Using the FitPlus for Windows Menu Options, for detailed descriptions of the fields in the database dialog boxes.

People Information		Sorted Records	
ID Number	123-45-6789	Sorted Records	SMITH
Last Name	SMITH	Custom1	
First Name	ANN	Custom2	
Company	XYZ CORPORATION	Custom3	
Location	JANESVILLE PLANT	Custom4	
Note	WEARS GLASSES		

Figure 3-3. Select a Person - Step 1

If the person shown is the one you want to fit test, click on the **Next** button. Otherwise:

1. Click on the **Sorted Records** field arrow to display all the names in the **People** database, or use the **Search** button to find the name you want.
*Note: If the person you want to fit test is not in the database, or if the record is blank, click on the **New** button and create a new record.*
2. Click on the selected person's name to display the correct record.
3. Click on the **Next** button to proceed to Step 2.

Step 2 - Select a Respirator

When the **Step 2** dialog box appears, it shows the name of the first respirator in the **Respirator** database. The records are in alphabetical order (Figure 3-4).

Note: If this is the first time you have used FitPlus for Windows, your Respirator database will be blank. The following instructions indicate which buttons you must click on to add records to the database. However, you must refer to Chapter 4, Using the FitPlus for Windows Menu Options, for detailed descriptions of the fields in the database dialog boxes.

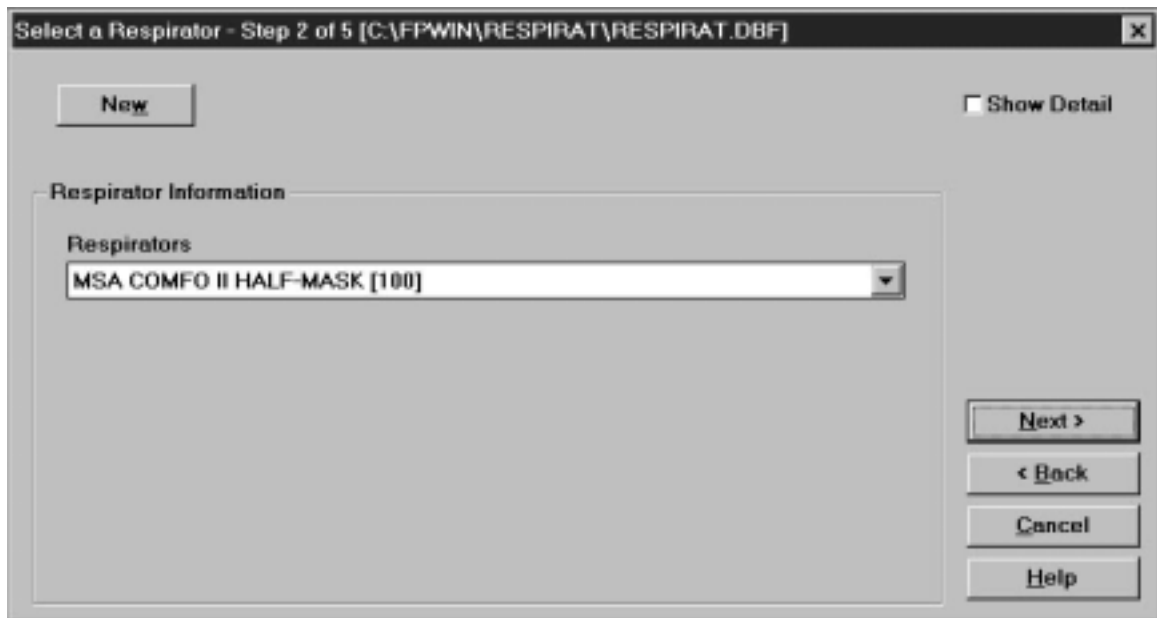


Figure 3-4. Select a Respirator - Step 2

If the record for the respirator you wish to use is displayed, click on the **Next** button. Otherwise:

1. Click on the **Respirators** field arrow to display all the respirators in the database. Use the scroll bar to find the respirator you want.
*Note: If the name of the respirator you want to use is not in the database, or if the record is blank, click on the **New** button and create a new record.*
2. Click on the selected respirator name to display it in the records field. If you want to see details for the selected respirator, click on the **Show Detail** box to display the Respirator details dialog box (Figure 3-5).
3. Click on the **Next** button to proceed to Step 3.

Select a Respirator - Step 2 of 5 [C:\FPWIN\RESPIRAT\RESPIRAT.DBF]

Show Detail

Respirator Information

Respirators
MSA COMFO II HALF-MASK [100]

Manufacturer MSA Fit Factor Pass Level 100
Model COMFO II Approval TC-21C-0000
Style HALF-MASK

Description MSA COMFO II HALF-MASK [100]
 Auto Description

Figure 3-5. Respirator Details Dialog Box

Step 3 - Select a Protocol

When the **Step 3** dialog box appears, it shows the exercise protocol that was last used (Figure 3-6).

Note: If this is the first time you have used FitPlus for Windows software, the dialog box displays the most commonly used 6-exercise protocol named “Default.” The protocols are listed in alphabetical order.



Figure 3-6. Select a Protocol - Step 3

If you wish to use this protocol, click the **Next** button. Otherwise:

1. Click on the **Protocols** field arrow to display all the exercise protocols in the database. Use the scroll bar to find the protocol you want.
*Note: If the name of the protocol you want to use is not in the database, or if the record is blank, click on the **New** button and create a new record.*
2. Click on the selected protocol name to display it in the **Protocols** field. If you wish to see details for this protocol, click on the **Show Detail** box to display the Protocol details dialog box (Figure 3-7).
3. Click on the **Next** button to proceed to Step 4.

Note: FitPlus for Windows remembers the protocol you last used and defaults to that protocol for the next fit test. If you always use the same protocol, this saves you from searching for it over and over again.

Select a Protocol - Step 3 of 5 [C:\FPWIN\PROTOCOL\PROTOCOL.DBF]

Next Test: Months Show Detail

Protocol Information

Protocol Name: Protocols:

	Exercise Name	Mask Time	Total Time	
1	NORMAL BREATHING	60	00	<input type="checkbox"/> Exclude
2	DEEP BREATHING	60	00	<input type="checkbox"/> Exclude
3	HEAD SIDE TO SIDE	60	00	<input type="checkbox"/> Exclude
4	HEAD UP AND DOWN	60	00	<input type="checkbox"/> Exclude
5	TALKING	60	00	<input type="checkbox"/> Exclude
6	NORMAL BREATHING	60	00	<input type="checkbox"/> Exclude

Test Times

Ambient Purge:
 Ambient Sample:
 Mask Purge:

Figure 3-7. Protocol Details Dialog Box

Step 4 - Information

When the **Step 4** dialog box appears, the mask size and operator fields are blank. (Figure 3-8.) You must fill in these fields before the FitPlus software will let you continue.

Information - Step 4 of 5 [C:\FPWIN\FITTEST\FITTEST.DBF]

Mask Size

Operator

Pass Level

Test Date

Test Time

Due Date

Data Input

PORTACOUNT

Manual

Next >

< Back

Cancel

Help

Figure 3-8. Information - Step 4 of 6

1. Fill in the **Mask Size** field. For example: SMALL, MEDIUM, or LARGE. This is a required field.
2. Fill in your name in the **Operator** field. This is a required field.
3. Override the **Pass Level** and **Due Date** by typing in new information, if necessary.
4. Click on the **Next** button to proceed to Step 5.

*Note: The default setting for data input is **PORTACOUNT**. If you wish to input data manually, click on **Manual**. When you click on the **Next** button, the **Manual Entry - Step 5** (Figure 3-7) screen appears. You can use this screen to fill in information from a fit test conducted without the computer.*

Step 5 - Conducting the Fit Test

The **Step 5** dialog box (Figure 3-9) is not active until you begin the fit test by clicking the **Start** button. Before you click on the **Start** button, *make sure the PORTACOUNT sample tube is connected to the respirator and the test subject is ready to begin the exercise protocol immediately.* Refer to the *PORTACOUNT Plus Operation and Service Manual* if you need additional information.

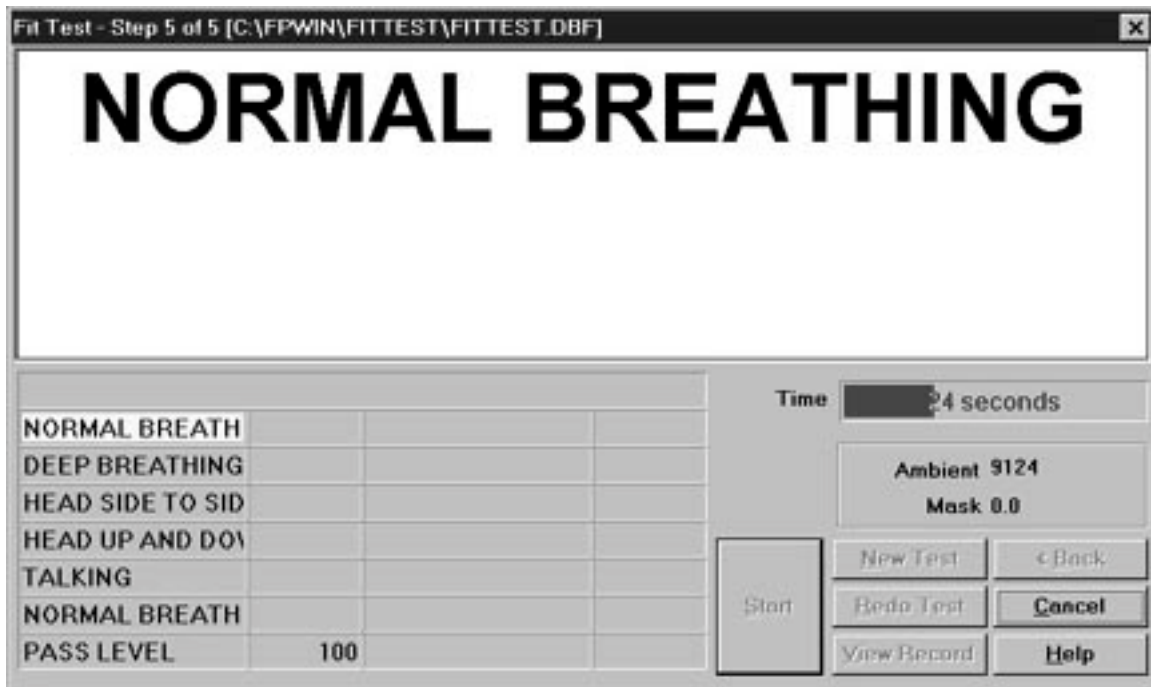
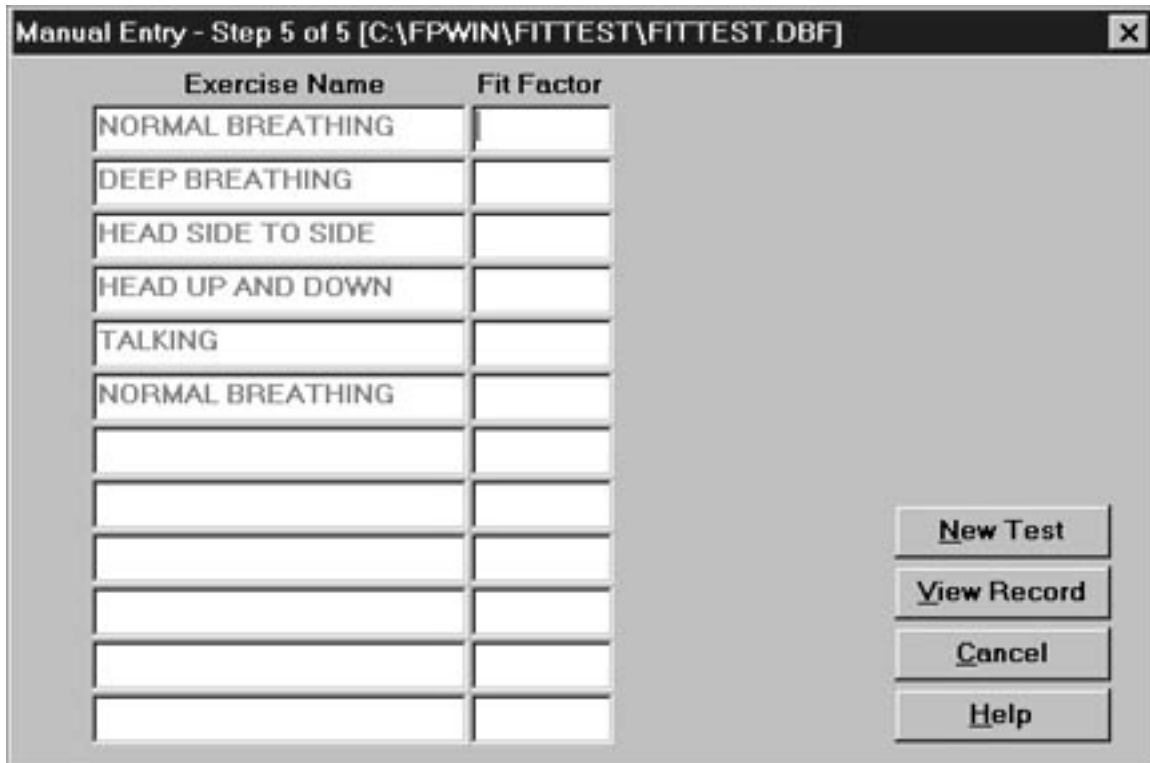


Figure 3-9. Fit Test - Step 5

1. Click on the **Start** button. The fit test begins immediately and the first exercise description appears in large type. The elapsed exercise time appears in the **Time** box. As each exercise is completed, the results appear in the grid at the lower left of the screen. The **Ambient** and **Mask** fields show the ambient and mask particle concentrations as they are measured.
2. FitPlus prompts you when it begins a new exercise. The exercises proceed one after another without pause.
3. When the fit test is complete, the main portion of the dialog box displays either a pass or fail status. The grid at the lower left of the screen displays the results of each exercise and the overall fit factor. You can now begin a new fit test on another person by clicking on the **New test** button, redo the test on the same person/respirator by clicking on the **Redo test** button, cancel fit testing by clicking on the **Cancel** button, or view the detailed fit test record by clicking on the **View record** button.

Alternate Step 5 - Manual Entry

If you clicked on the **Manual** button in Step 4, the **Manual Entry - Step 5 of 6** screen appears (Figure 3-10). You use this screen to enter the results of a fit test conducted without a computer. Fill in the results in the **Fit Factor** column of the screen. After you complete the manual entry of data, you can begin a new fit test on another person by clicking on the **New test** button, or go on to view the detailed fit test record by clicking on the **View record** button.



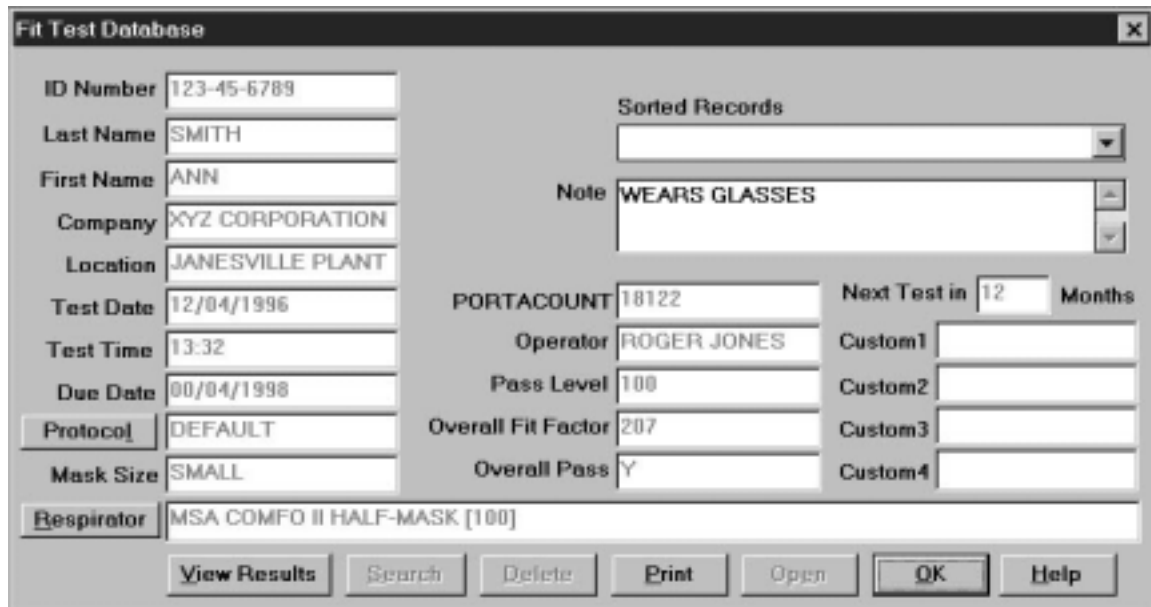
The screenshot shows a window titled "Manual Entry - Step 5 of 5 [C:\FPWIN\FITTEST\FITTEST.DBF]". The window contains a table with two columns: "Exercise Name" and "Fit Factor". The table has 10 rows. The first six rows contain the following exercise names: "NORMAL BREATHING", "DEEP BREATHING", "HEAD SIDE TO SIDE", "HEAD UP AND DOWN", "TALKING", and "NORMAL BREATHING". The remaining four rows are empty. To the right of the table are four buttons: "New Test", "View Record", "Cancel", and "Help".

Exercise Name	Fit Factor
NORMAL BREATHING	
DEEP BREATHING	
HEAD SIDE TO SIDE	
HEAD UP AND DOWN	
TALKING	
NORMAL BREATHING	

Figure 3-10. Manual Entry - Alternate Step 5

View Record (optional)

Clicking on **View Record** at the completion of a fit test allows you to look at the detailed information from the fit test you just finished. You cannot edit the information from this dialog box, but you may view all information and optionally print a single page fit test report. When you are done, click **OK** to begin fit testing another person.



The screenshot shows a window titled "Fit Test Database" with a close button (X) in the top right corner. The window contains several input fields and buttons. On the left side, there are fields for: ID Number (123-45-6789), Last Name (SMITH), First Name (ANN), Company (XYZ CORPORATION), Location (JANESVILLE PLANT), Test Date (12/04/1996), Test Time (13:32), Due Date (00/04/1998), Protocol (DEFAULT), Mask Size (SMALL), and Respirator (MSA COMFO II HALF-MASK [100]). On the right side, there is a "Sorted Records" dropdown menu, a "Note" field containing "WEARS GLASSES", and a "Next Test in" field set to "12" Months. Below these are fields for PORTACOUNT (18122), Operator (ROGER JONES), Pass Level (100), Overall Fit Factor (207), and Overall Pass (Y). At the bottom right, there are four "Custom" fields (Custom1, Custom2, Custom3, Custom4). At the bottom of the window, there is a row of buttons: View Results, Search, Delete, Print, Open, OK, and Help.

Figure 3-11. Fit Test record

Summary

This chapter presented the basic fit testing procedures provided by the FitPlus for Windows software. For detailed information on all the options available in FitPlus for Windows, refer to Chapter 4.

Chapter 4

Using the FitPlus for Windows Menu Options

This chapter discusses how to use the FitPlus for Windows menu options to perform all the tasks available in the FitPlus for Windows software. It is organized in the same order as the FitPlus for Windows main menu bar, shown in Figure 4-1. You can perform FitPlus for Windows tasks independently of the default basic procedures discussed in Chapter 3 by selecting them from the menu.

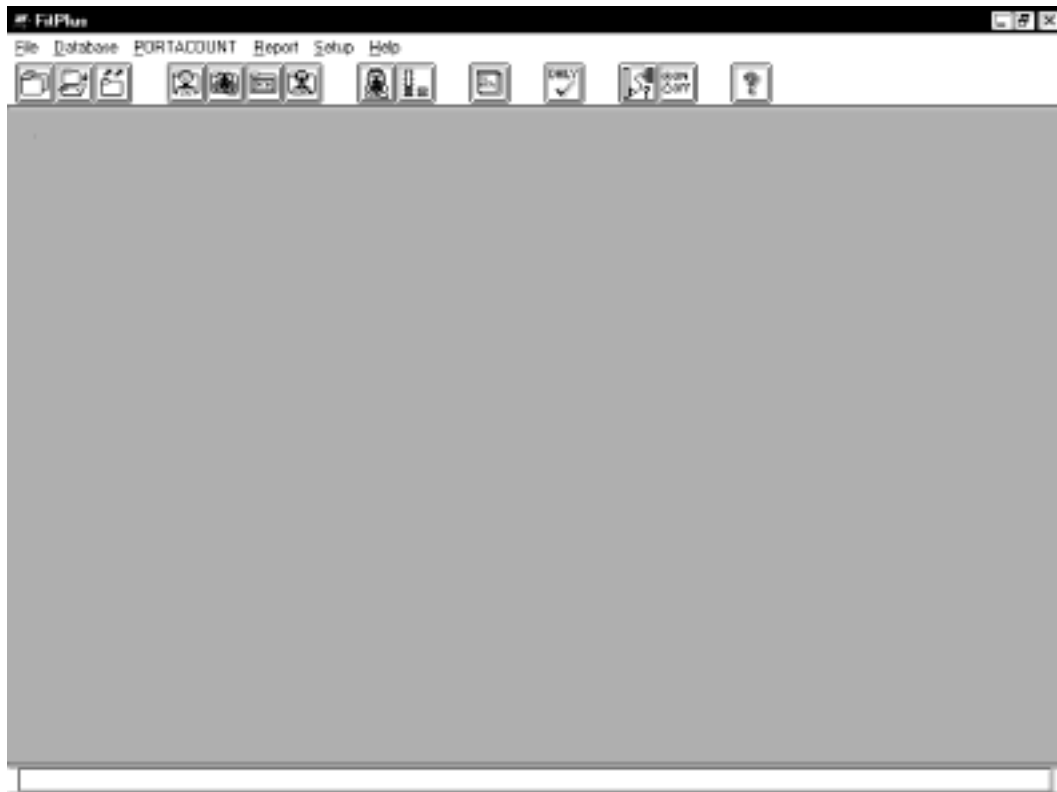


Figure 4-1. Main Menu

The following table lists all of the menu selections.

Menu	Description
<u>F</u>ile	The <u>F</u>ile menu contains three options: <ul style="list-style-type: none"> • <u>C</u>opy database • <u>M</u>erge databases • <u>E</u>xport database • <u>E</u>xit
<u>D</u>atabase	The <u>D</u>atabase menu contains two options: <ul style="list-style-type: none"> • <u>O</u>pen • <u>S</u>etup/Create Default Filenames
<u>P</u>ORTACOUNT	The <u>P</u>ORTACOUNT menu contains three options: <ul style="list-style-type: none"> • <u>F</u>it Test • <u>R</u>ealtime • <u>D</u>aily Checks
<u>R</u>eport	The <u>R</u>eport menu contains two options: <ul style="list-style-type: none"> • <u>S</u>elect report • <u>S</u>ingle <u>F</u>it Test
<u>S</u>etup	The <u>S</u>etup menu contains two options: <ul style="list-style-type: none"> • <u>C</u>ommunications Port • <u>F</u>it test <u>O</u>ptions
<u>H</u>elp	The <u>H</u>elp menu contains four options: <ul style="list-style-type: none"> • <u>C</u>ontents • <u>F</u>itPlus <u>F</u>eatures • <u>F</u>itPlus <u>T</u>asks • <u>A</u>bout FitPlus

You can select any of the options using the mouse or the keyboard.
















- To select an item using the mouse, move the cursor to the menu and click the left mouse button. Then click the menu option you want to select.
- To select an item using the keyboard, press the **A** key and the underlined letter of the menu you want to select. For example, to select the **Database** menu, press and hold **A**, and then press **D**. Then, to select the menu option, press the underlined letter for the option you want.

In addition to the menu bar, FitPlus for Windows includes toolbar buttons. These buttons, located directly below the menu bar, offer easy access to the most common menu options.



Figure 4-2. Toolbar Buttons

Toolbar button descriptions in order from left to right are:

	Copy a database file to another location and optionally rename the file		Start a fit test
	Merge one database into another and optionally rename the file		Start the Real-time fit factor display
	Export a database to a tab-delimited ASCII file		Select a report format from a list
	View or edit the People database		View or print a single-page fit test report
	View or edit the Respirator database		Start daily checks
	View or edit the Protocol database		Select or test a communications port
	View or edit the Fit Test database		Set fit test options
			Online help

Using the File Menu

The **F**ile menu allows you to copy, merge, or export databases, or to exit the program. FitPlus for Windows provides a distinct directory structure for the four types of database files: People, Respirator, Protocol, and Fit Test. Each file type has a specific directory. When you open any of the **Select Source/Destination Database File** dialog boxes, explained below, FitPlus for Windows automatically displays the directory structure in the right-hand side of the dialog box.

Copying a Database

To copy a whole database from one location to another, open the **F**ile menu and click on **C**opy Database. The **Copy Database** dialog box appears (Figure 4-3).

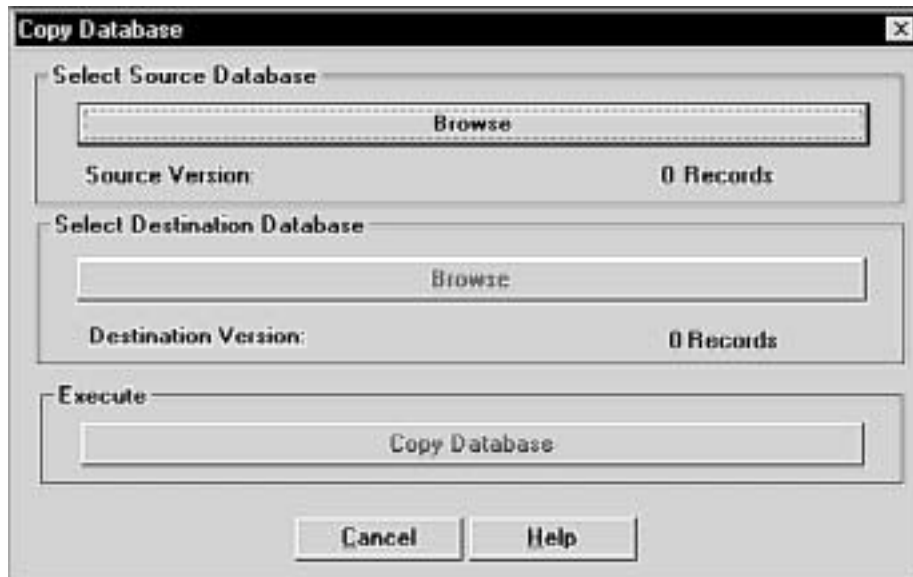


Figure 4-3. Copy Database Dialog Box

1. Click on the **B**rowse button under **S**elect Source Database. The **S**elect source database file dialog box appears (Figure 4-4).
2. In the **F**olders list on the right-hand side of the dialog box, double-click on the folder for the type of database you want to copy. The names of the files in the selected folder appear in the **F**ile name list on the left-hand side of the dialog box.
3. Using your mouse, select the name of the database you wish to copy. (If the database name does not appear in the list, search for the desired database in other folders. If you are not familiar with basic Windows browse techniques, please refer to your Windows documentation.) The name of the file to be copied must appear in the **F**ile name bar at the top left of the screen. Click on the **O**K button. The **C**opy Database dialog box reappears with the name of the source database filled in.

4. Click on the **Browse** button under **Select Destination Database**. The **Select destination database file** dialog box appears. This dialog box looks exactly like the **Select source database file** dialog box, and functions in the same way.
5. The name of the *source* database file appears in the destination database **File name** bar by default. To change the name, type the new name in the bar. (The default destination drive is **A:**. If you wish to change the drive, select a new drive from the **Drives** bar at the bottom of the screen.)
If you wish to copy and rename the file, enter the name of the new file in the **File name** bar. The Copy procedure will copy and rename the file. Click on the **OK** button. The **Copy Database** dialog box reappears, with the names of the source and destination databases filled in.
6. Click on the **Copy Database** button under **Execute**. The file is copied from the source to the destination.

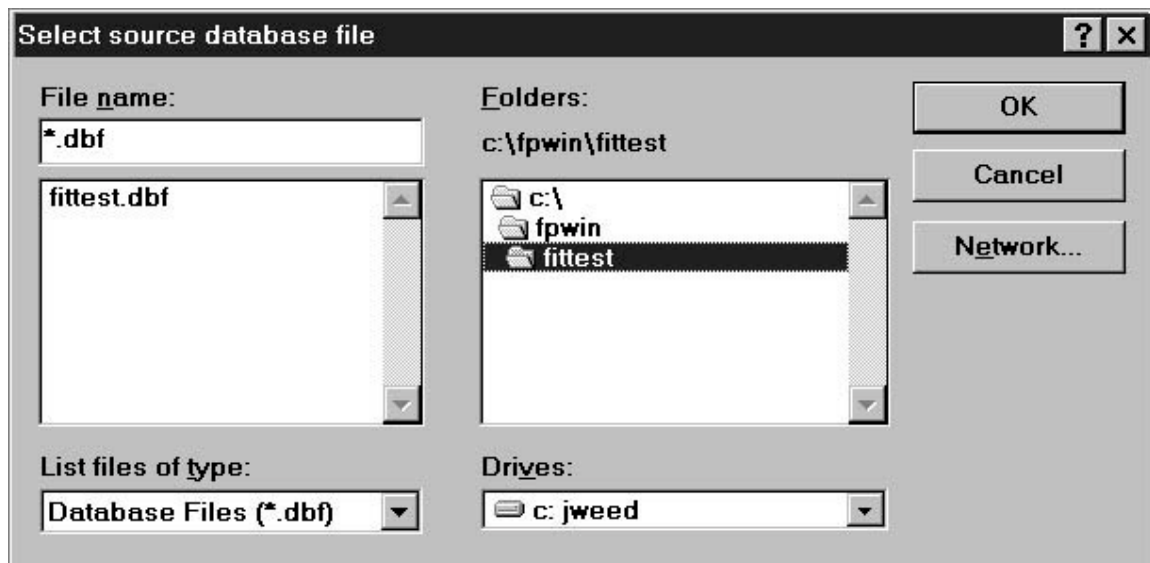


Figure 4-4. Select source database file Dialog Box

If you wish to cancel the **Copy Database** procedure at any time, click on the **Cancel** button that appears on all of the dialog boxes. You immediately return to the main FitPlus window.

If you are on a network, click on the **Network** button on the **Select Source/Select Destination Database** file dialog boxes to access other drives on the network.

Merging Databases

To merge data from one database file into another, open the **File** menu and click on **Merge Databases**. The **Merge Databases** dialog box appears (Figure 4-5). This procedure adds data from the source database to the destination database. It does not alter the source database file.

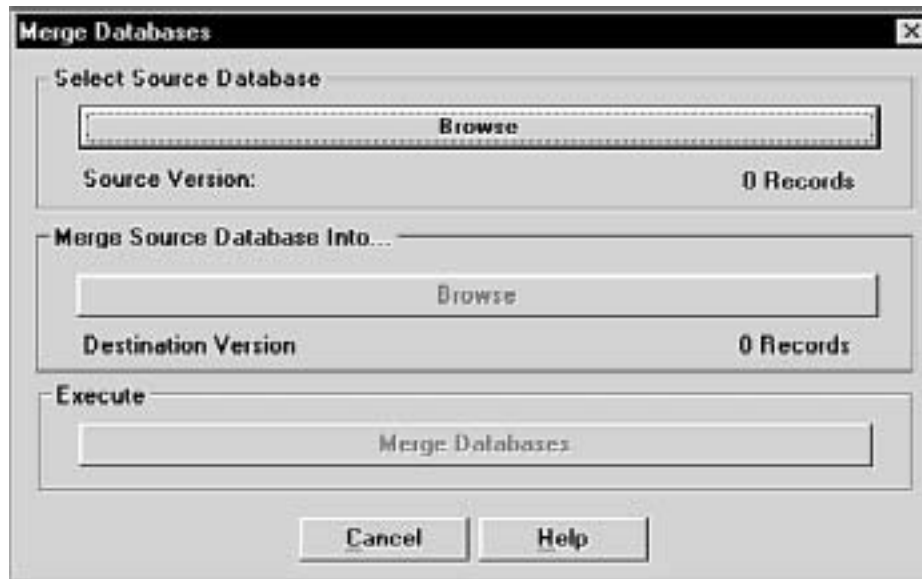


Figure 4-5. Merge Databases Dialog Box

1. Click on the **Browse** button under **Select Source Database**. The **Select source database file** dialog box appears (Figure 4-4).
2. In the **Folders** list on the right-hand side of the dialog box, double-click on the folder for the type of database you want to copy. The names of the files in the selected folder appear in the **File name** list on the left-hand side of the dialog box.
3. Using your mouse, select the name of the source database you wish to merge data *from*. (If the database name does not appear in the list, search for the desired database in other folders. If you are not familiar with basic Windows search techniques, please refer to your Windows documentation.) The name must appear in the **File name** bar at the top left of the screen. Click on the **OK** button. The **Merge Databases** dialog box reappears with the name of the source database filled in.
4. Click on the **Browse** button under **Merge Source Database Into....** The **Select destination database file** dialog box appears. This dialog box looks exactly like the **Select source database** dialog box, and functions in the same way.
5. Select the name of the database you wish to merge data *into*. Search for the database if it does not appear in the list. The file must already exist or you cannot execute the merge function. Click on the **OK** button. The **Merge Databases** dialog box reappears, with the names of the source and destination databases filled in.
6. Click on the **Merge Databases** button under **Execute**. The data is copied from the source database and added to the destination database. The source database is not altered.

If you wish to cancel the **Merge Databases** procedure at any time, click on the **Cancel** button that appears on all of the dialog boxes. You immediately return to the previously displayed dialog box.

If you are on a network, click on the **Network** button on the **Select Source/Select Destination Database** file dialog boxes to access other drives on the network.

Exporting Databases

The **Export Database** function allows you to transfer data to programs that cannot read dBASE IV format databases. Most popular database and spreadsheet software can read dBASE IV format databases directly.

The export database function creates a tab-delimited ASCII file containing all data in the database. There is no way to filter records.

To export data from one database file into a tab-delimited ASCII file, open the **File** menu and click on **Export Databases**. The **Export Database** dialog box appears (Figure 4-6).

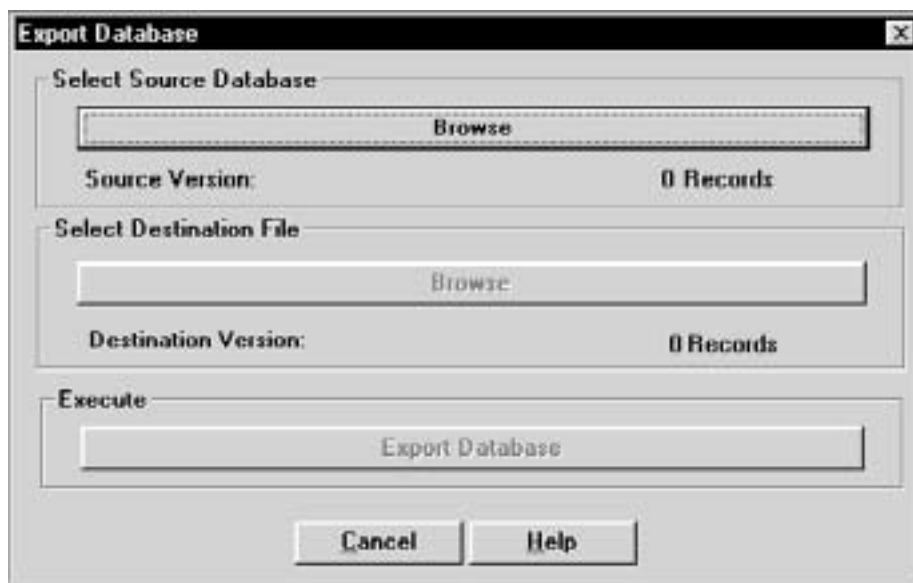


Figure 4-6. Export Database Dialog Box

1. Click on the **Browse** button under **Select Source Database**. The **Select source database file** dialog box appears (Figure 4-4).
2. In the **Folders** list on the right-hand side of the dialog box, double-click on the folder for the type of database you want to copy. The names of the files in the selected folder appear in the **File name** list on the left-hand side of the dialog box.
3. Using your mouse, select the name of the database you wish to export. (If the database name does not appear in the list, search for the desired database in other folders. If you are not familiar with basic Windows search techniques, please refer to your Windows documentation.) The name must appear in the **File name** bar at the top left of the screen. Click on the **OK** button. The **Export Database** dialog box reappears with the name of the source database filled in.
4. Click on the **Browse** button under **Select Destination File**. The **Select destination file** dialog box appears (Figure 4-7).
5. Select the name of the file you wish to export the data *to*.

WARNING: *If you select the name of an existing file, the file will be overwritten.*

Create a new file by typing the file name in the **File name** bar, or search for the file if it does not appear in the list. (The file extension **.txt** is used by default and may be changed if you wish.) Click on the **OK** button. The **Export Database** dialog box reappears, with the names of the source and destination files filled in.

6. Click on the **Export Database** button under **Execute**. The data is copied from the source to the destination database.

If you wish to cancel the **Export Database** procedure at any time, click on the **Cancel** button that appears on all of the dialog boxes. You immediately return to the previously displayed dialog box.

If you are on a network, click on the **Network** button on the **Select Source/Select Destination Database** file dialog boxes to access other drives on the network.

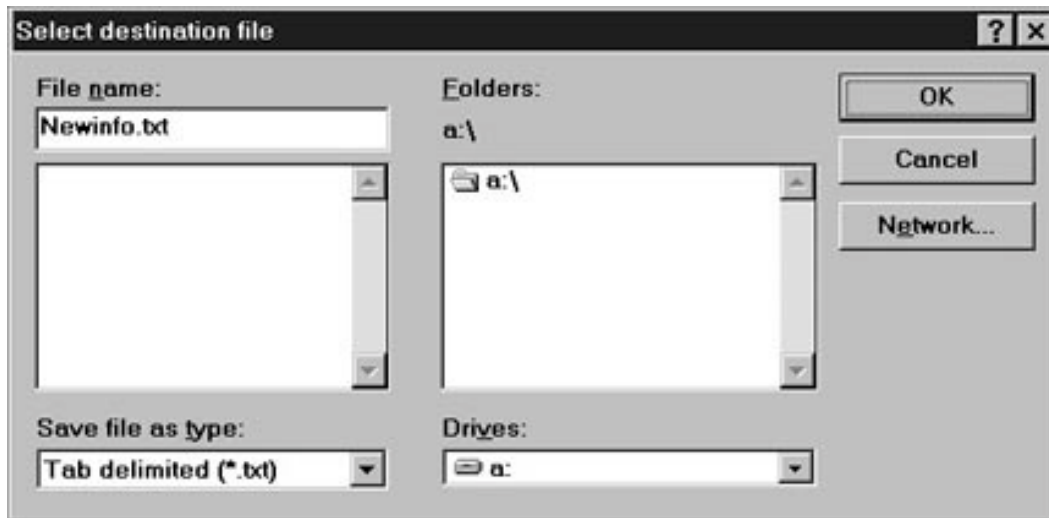


Figure 4-7. Select destination file Dialog Box - Export Database

Exiting FitPlus for Windows Software

To exit the program, open the **F**ile menu and click on **E**xit. The main FitPlus window closes, terminating the application.

Using the Database Menu

FitPlus for Windows uses four types of database files: People; Respirator; Protocol; and Fit Test. The **Database** menu allows you to open the database files, add new data to these database files, change the default database file, or create a new database file.

All database files carry the **.dbf** extension. The default files supplied with FitPlus for Windows software are **People.dbf**, **Respirator.dbf**, **Protocol.dbf**, and **Fittest.dbf**.

The default databases are the databases used for fit testing. In other words, Step 1 of a fit test uses the default people database, Step 2 uses the default respirator database, Step 3 uses the default protocol database, and the fit test results are stored in the default fit test database. The only way you can change a default database is by using the **Setup/Create Default Filenames** option, described later in this section.

Open and Updating the Default Database Files

To open one of the database files, click on the **Database** menu, select **Open**, and select one of the four database files: People, Respirator, Protocol, or Fit Test. The first record in the default database appears. If you want to work on another database that is not currently defined as the default, click on the **Open** button and select another database from the **Select Database File** dialog box.

Note: Each of the four database files is described in a separate section below.

Updating the People Database File

The **People Database** dialog box automatically displays the first record in the default people database (Figure 4-8), sorted by last name. If the database is empty, the dialog box contains all blank fields. You enter information for a new record in the fields in the **People Information** section of the dialog box. You can also change any of the displayed information for any existing record by overwriting these fields.



The screenshot shows a dialog box titled "People Database [C:\FPWIN\PEOPLE\PEOPLE.DBF]". At the top, there are four buttons: "New", "Delete", "Duplicate", and "Search". Below these is a section titled "People Information" which contains several input fields:

- ID Number: 123-45-6789
- Last Name: SMITH
- First Name: ANN
- Company: XYZ CORPORATION
- Location: JANESVILLE PLANT
- Note: WEARS GLASSES

To the right of these fields is a "Sorted Records" section with a dropdown menu currently showing "SMITH" and four "Custom" fields (Custom1 through Custom4) which are currently blank. At the bottom right of the dialog box are three buttons: "Open", "OK", and "Help".

Figure 4-8. People Database Dialog Box

The following table describes the function of each of the buttons or fields in the **People Database** dialog box.

Button or Field Name	Function
<u>N</u>ew button	Clicking on the <u>N</u>ew button opens a new blank record, allowing you to enter a new record in the database.
<u>D</u>elete button	Clicking on the <u>D</u>elete button allows you to delete the displayed record. A warning message first appears, asking if you are sure you want to delete the record. If you click on <u>Y</u>es , the record is deleted permanently.
<u>D</u>uplicate button	Clicking on the <u>D</u>uplicate button duplicates the displayed record, adds it to the database, and displays the duplicate record. You can use this feature to create a record similar to the displayed record, and edit the fields as necessary.
<u>S</u>earch button	<p>Clicking on the <u>S</u>earch button displays the Database Search dialog box (Figure 4-9). Type the name of the person you want to find in the Text to search for... bar and click on <u>O</u>K. The People Database dialog box reappears, displaying the selected record.</p> <p>You may search other fields besides the last name field by changing the field shown in the Data to search through .</p> <p>If the record you are searching for is not in the database file, the first record in the file reappears. Click on <u>N</u>ew and add the new record.</p>
ID Number field	Displays the person's ID number. Limited to 11 alpha-numeric characters.
Last Name field	Displays the person's last name. Limited to 25 characters.
First Name field	Displays the person's first name. Limited to 25 characters.
Company field	Displays the person's company name. Limited to 25 characters.
Location field	Displays the person's division or department name. Limited to 25 characters.
Note field	Displays any information about the person that can affect the fit test circumstances or results, such as "wears safety goggles," or "wears dentures." Limited to 128 characters.

Button or Field Name	Function
Sorted Records field	Clicking on the arrow to the right of the records field displays a list of all the records in the database file. It is used to select a record for display.
Custom fields (1, 2, 3, and 4)	Displays any user-defined data you may wish to keep track of.
Open button	Clicking on the Open button displays the Select people database file dialog box. You can select another file for editing. However, this does not change the default people database for fit test purposes.
OK button	Clicking on the OK button closes the dialog box.
Help button	Clicking on the Help button accesses the FitPlus online help information.

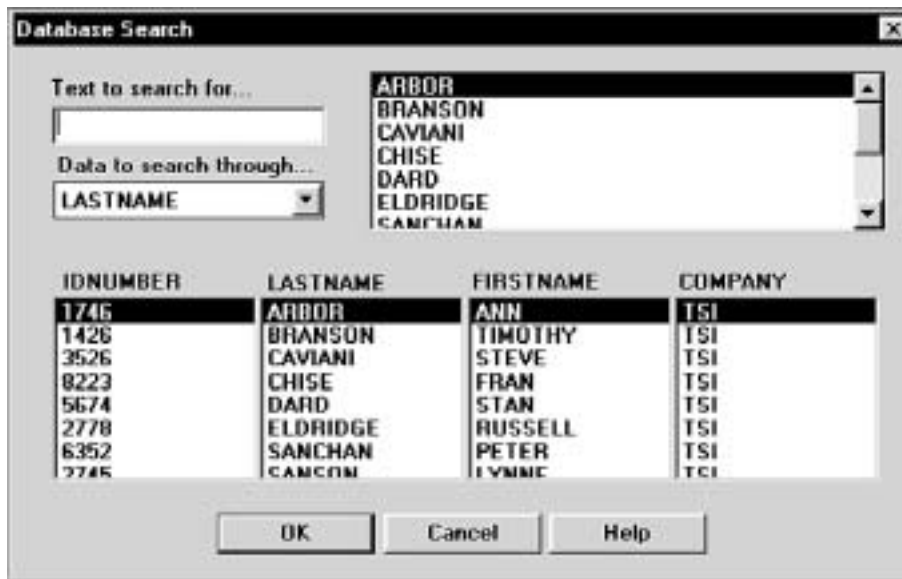


Figure 4-9. Database Search Dialog Box

Updating the Respirator Database

The **Respirator Database** dialog box automatically displays the first record in the default respirator database (Figure 4-10), sorted by description. You use the **Sorted Records** field to display and select any existing respirator record. If the database is empty, the dialog box contains all blank fields. You enter information for a new respirator in the **Respirator Information** section of the dialog box. You can also change the displayed information for any existing record by updating the appropriate fields.

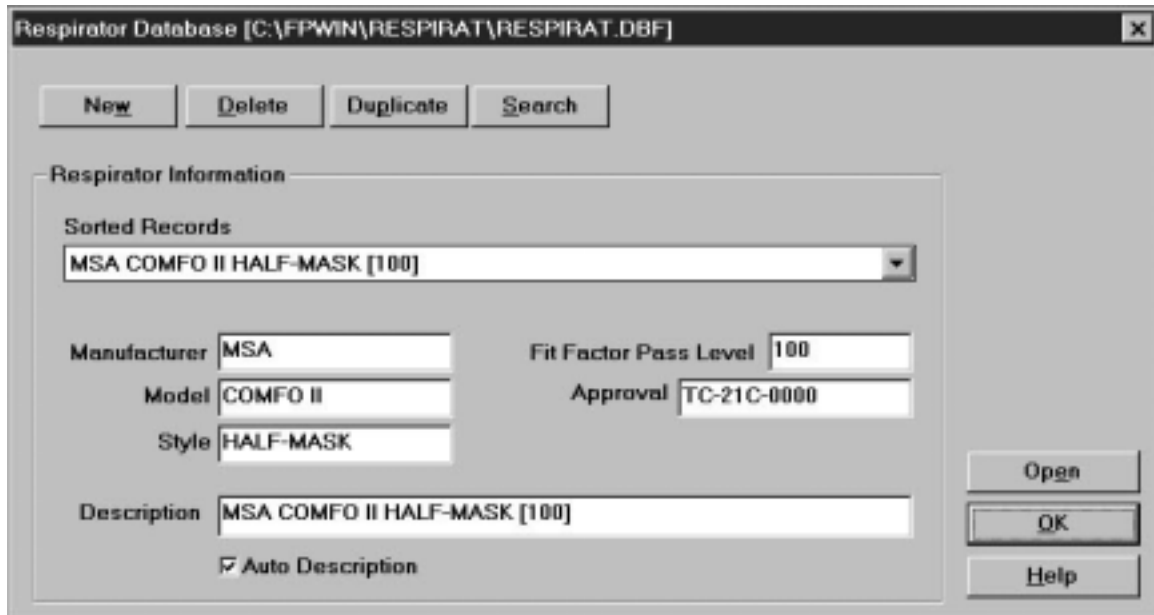


Figure 4-10. Respirator Database Dialog Box

The following table describes the function of each of the buttons or fields in the **Respirator Database** dialog box.

Button or Field Name	Function
<u>N</u>ew button	Clicking on the <u>N</u>ew button opens a new blank record, allowing you to enter a new record in the database.
<u>D</u>ele te button	Clicking on the <u>D</u>ele te button allows you to delete the displayed record. A warning message first appears, asking if you are sure you want to delete the record. If you click on <u>Y</u>es , the record is deleted permanently.
Duplicate button	Clicking on the Duplicate button duplicates the displayed record, adds it to the database, and displays the duplicate record. You can use this feature to create a record similar to the displayed record, and edit the fields as necessary.
<u>S</u>earch button	<p>Clicking on the <u>S</u>earch button displays the Database Search dialog box. (This box is structured exactly like the box shown in Figure 4-11, although it displays respirator information.) Select the data to search through, and type the information to search for in the Text to search for... bar. Click on OK. The Respirator Database dialog box reappears, displaying the selected record.</p> <p>If the record you are searching for is not in the database file, the first record in the file reappears. Click on <u>N</u>ew and add the new record.</p>
Sorted Records field	Clicking on the arrow to the right of the Sorted Records field displays a list of all the respirator records in the database. You can select a new record or leave the current record in the dialog box.
Manufacturer field	Displays the respirator manufacturer's name.
Model field	Displays the respirator model.
Style field	Displays the description of the respirator style, such as half- or full-face.
Approval field	Displays the respirator approval number. This is typically the NIOSH approval number.

Button or Field Name	Function
Fit Factor Pass Level field	Displays the fit factor pass level number for this respirator, such as 100 for half masks and 500 for full-face masks. Consult the applicable regulations for additional information.
Description field	Displays the respirator description, also shown in the Sorted Records field. See Auto Description at the end of this table.
Open button	Clicking on the Open button displays the Select respirator database file dialog box. You can select another file for editing purposes. However, this does not change the default respirator database for fit test purposes.
OK button	Clicking on the OK button updates the displayed record and closes the dialog box.
Help button	Clicking on the Help button accesses the FitPlus online help information.
Auto Description Check Box	If Auto Description is checked, the description field will automatically be filled in using the information from the manufacturer, model, style and fit factor pass level fields. You may overwrite the automatic description if necessary.

Updating the Protocol Database

The **Protocol Database** dialog box automatically displays the records in the default protocol database in alphabetical order. (Figure 4-11). You use the **Sorted Records** field to display and select any existing exercise protocols. If the database is empty, the dialog box contains all blank fields. You enter information for a new exercise protocol in the **Protocol Information** section of the dialog box. You can also change the displayed information for any existing record by updating the appropriate fields.

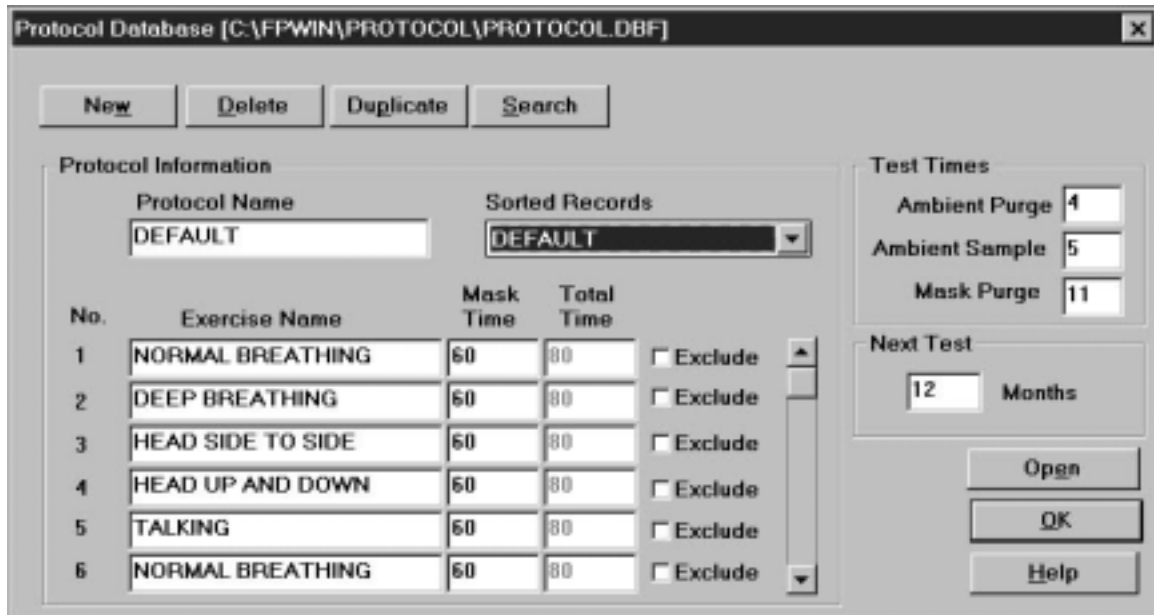


Figure 4-11. Protocol Database Dialog box

The following table describes the function of each of the buttons or fields in the **Protocol Database** dialog box.

Button or Field Name	Function
<u>N</u>ew button	Clicking on the <u>N</u>ew button opens a new blank record, allowing you to enter a new record in the database.
<u>D</u>el ete button	Clicking on the <u>D</u>el ete button allows you to delete the displayed record. A warning message first appears, asking if you are sure you want to delete the record. If you click on <u>Y</u>es , the record is deleted permanently.
<u>D</u>uplicate button	Clicking on the <u>D</u>uplicate button duplicates the displayed record, adds it to the database, and displays the duplicate record. You can use this feature to create a record similar to the displayed record, and edit the fields as necessary.
<u>S</u>earch button	<p>Clicking on the <u>S</u>earch button displays the Database Search dialog box. (This box is structured exactly like the box shown in Figure 4-9, although it contains only the protocol names.) Type the name of the protocol for this fit test in the Text to search for... bar and click on <u>O</u>K. The Protocol Database dialog box reappears, displaying the selected record.</p> <p>If the record you are searching for is not in the database file, the first record in the file reappears. Click on <u>N</u>ew and add the new record.</p>
<u>P</u>rotocol Name field	Displays the name of the displayed exercise protocol.
Sorted Records field	Clicking on the arrow to the right of the Sorted Records field displays a list of all the Protocol records in the database. You can select a new record or leave the current record information in the dialog box.
Exercise Name fields	Displays the names of all the exercises in the protocol. There are up to 12 exercises. Use the scroll bar to the right of the Exclude buttons to display Exercises 7 through 12.
Mask Time field	Displays the mask sample time in seconds for each exercise. Use 60 seconds unless applicable regulations allow other settings.

Button or Field Name	Function
Total Time field	Displays the total time in seconds for each exercise. The total time is the mask plus ambient purge plus ambient sample plus mask purge times. FitPlus for Windows automatically updates the total when you move to the next field. You cannot update this field directly.
Exclude buttons	Clicking the Exclude button for an exercise excludes those exercise results from the overall fit factor result for the entire fit test. Do not exclude exercises unless you are absolutely certain that they are not required for the overall fit factor result.
Ambient Purge field	Displays the ambient purge time in seconds. The default is 4. Do not change this setting under normal circumstances.
Ambient Sample field	Displays the ambient sample time in seconds. The default is 5. Do not change this setting under normal circumstances.
Mask Purge field	Displays the mask purge time in seconds. The default is 11. Do not change under normal circumstances.
Next Test field	Displays the number of months before the next fit test is due. This is typically 12 months, although some regulations call for 6 months. Consult the applicable regulations for additional information.
Open button	Clicking on the Open button displays the Select protocol database file dialog box. You can select another file for editing purposes. However, this does not change the default protocol database used for fit testing.
OK button	Clicking on the OK button updates the displayed record and closes the dialog box.
Help button	Clicking on the Help button accesses the FitPlus online help information.

Viewing the Fit Test Database

The **Fit Test Database** file dialog box automatically displays the first record in the default fit test database, sorted by last name (Figure 4-12). Many of the fields in this dialog box are display only, you cannot modify them.

The screenshot shows a dialog box titled "Fit Test Database [C:\FPWIN\FITTEST\FITTEST.DBF]". It contains several input fields and buttons. The fields are organized as follows:

ID Number	123-45-6789	Sorted Records	SMITH
Last Name	SMITH	Note	WEARS GLASSES
First Name	ANN	PORTACOUNT	18122
Company	XYZ CORPORATION	Operator	ROGER JONES
Location	JANESVILLE PLANT	Pass Level	100
Test Date	12/04/1996	Overall Fit Factor	207
Test Time	13:32	Overall Pass	Y
Due Date	00/04/1998	Next Test in	12 Months
Protocol	DEFAULT	Custom1	
Mask Size	SMALL	Custom2	
Respirator	MSA COMFO II HALF-MASK [100]	Custom3	
		Custom4	

At the bottom of the dialog box, there are several buttons: View Results, Search, Delete, Print, Open, OK, and Help.

Figure 4-12. Fit Test Database Dialog Box

You can display a new record by clicking on the arrow next to the **Sorted Records** field and selecting a new record from the resulting list. You can also click on the **Search** button at the bottom of the screen to display a dialog box that allows you to select a specific fit test record.

The following table describes the function of each button and field in the **Fit Test Database** dialog box. It also indicates whether or not you can modify the field.

Button or Field Name	Modify?	Function
First Name field	Y	Displays the first name of the fit test subject.
Last Name field	Y	Displays the last name of the fit test subject.
ID Number field	Y	Displays the ID number of the fit test subject.
Company field	Y	Displays the company name of the fit test subject.
Location field	Y	Displays the division or department name of the fit test subject.
Test Date field	N	Displays the date of the fit test.
Test Time field	N	Displays the time the fit test began.
Due Date field	Y	Displays the date that the next fit test is due.
Protocol field	N	Displays the protocol used for the fit test.
Mask Size field	Y	Displays the size of the mask used for the fit test.
Respirator field	Y	Displays the name of the respirator used for the fit test.
Sorted Records field	n/a	Clicking on the arrow to the right of the Sorted Records field displays a list of all the Fit Test records in the database. You can select a new record or leave the current record information in the dialog box.
Note field	Y	Displays any information about the person that can affect the fit test circumstances or results.
Custom fields (1, 2, 3, and 4)	Y	Displays any user-defined data.
PORTACOUNT field	N	Displays the serial number of the PORTACOUNT used for the fit test.
Operator field	Y	Displays the name of the operator who conducted the fit test.
Pass Level field	N	Displays the pass level used for the fit test.
Overall Fit Factor field	N	Displays the overall fit factor result for the fit test.
Overall Pass field	N	Displays a Y for a passed fit test; an N for a failed fit test.
Protocol button	n/a	Clicking on the Protocol button displays detailed exercise protocol information for this fit test (Figure 4-13).

Button or Field Name	Modify?	Function
<u>R</u>espirator button	n/a	Clicking on the <u>R</u>espirator button displays detailed information on the respirator used for this fit test (Figure 4-14).
<u>V</u>iew results button	n/a	Clicking on the <u>V</u>iew results button displays the detailed exercise results for this fit test (Figure 4-15).
<u>S</u>earch button	n/a	<p>Clicking on the <u>S</u>earch button displays the Database Search dialog box. (This box is structured exactly like the box shown in Figure 4-9, although it contains fit test information). Select the type of data to search through, and type the information to search for in the Text to search for... bar. Click on <u>O</u>K. The Respirator Database dialog box reappears, displaying the selected record.</p> <p>If the record you are searching for is not in the database file, the first record in the file reappears. Click on <u>N</u>ew and add the new record.</p>
<u>D</u>elete button	n/a	Clicking the <u>D</u>elete button permanently deletes this record from the fit test database. A warning message first appears asking if you are sure you want to delete the record.
<u>P</u>rint button	n/a	Clicking the Print button prints a detailed one-page report for this fit test.
<u>O</u>pen button	n/a	Clicking on the <u>O</u>pen button displays the Select fit test database file dialog box. You can select another file for editing purposes. However, this does not change the default fit test database used for fit testing.
<u>O</u>K button	n/a	Clicking on the <u>O</u>K button updates the displayed record and closes the database dialog box.
<u>H</u>elp button	n/a	Clicking on the <u>H</u>elp button accesses the FitPlus online help information.

Fit test database [X]

Protocol Information

Protocol Name:

No.	Exercise Name	Mask Time	Total Time	<input type="checkbox"/> Exclude
1	NORMAL BREATHING	60	80	<input type="checkbox"/>
2	DEEP BREATHING	60	80	<input type="checkbox"/>
3	HEAD SIDE TO SIDE	60	80	<input type="checkbox"/>
4	HEAD UP AND DOWN	60	80	<input type="checkbox"/>
5	TALKING	60	80	<input type="checkbox"/>
6	NORMAL BREATHING	60	80	<input type="checkbox"/>

Test Times

Ambient Purge:

Ambient Sample:

Mask Purge:

Next Test: Months

OK

Figure 4-13. Protocol Information

Fit test database [X]

Respirator Information

Manufacturer:

Model:

Style:

Description:

Approval:

Fit Factor Pass Level:

OK

Figure 4-14. Respirator Information

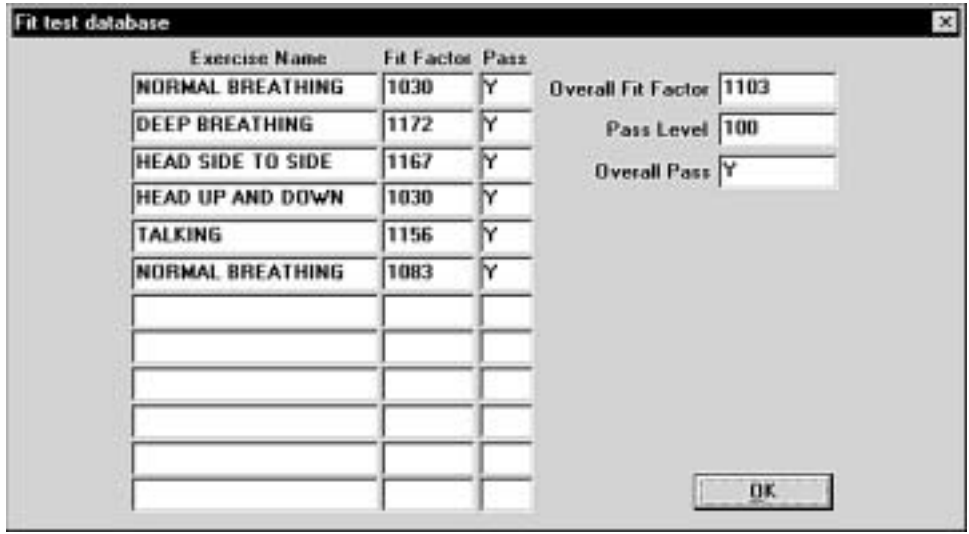


Figure 4-15. Complete Fit Test Results

Changing the Default Database Files

The default databases are the databases you use for new fit tests. Although you can have numerous databases in your database directories, only those designated as the defaults are used for new fit tests. To change the default database files, open the **D**atabase menu and select **S**etup/Create Default Filenames. The **S**etup/Create Default Database Filenames dialog box appears (Figure 4-16).

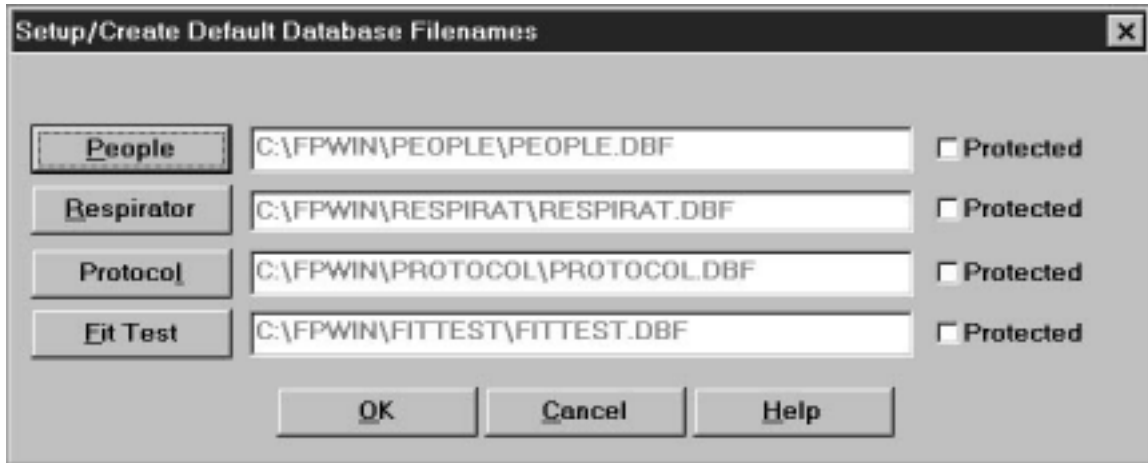


Figure 4-16. Setup/Create Default Database Filenames Dialog Box

The **S**etup/Create Default Database Filenames dialog box displays the names of each of the default databases. Clicking on the **P**eople, **R**espirator, **P**rotocol, or **F**it Test button displays the **S**elect or create default database dialog box (Figure 4-17).

FitPlus for Windows provides a distinct directory structure for the four types of database files. Each file type (People, Respirator, Protocol, and Fit Test) has a specific sub-directory under the main FitPlus for Windows directory (usually C:\FPWIN). When you open any of the **S**elect or create default database dialog boxes, FitPlus for Windows automatically opens the correct database directory for the database type you selected.

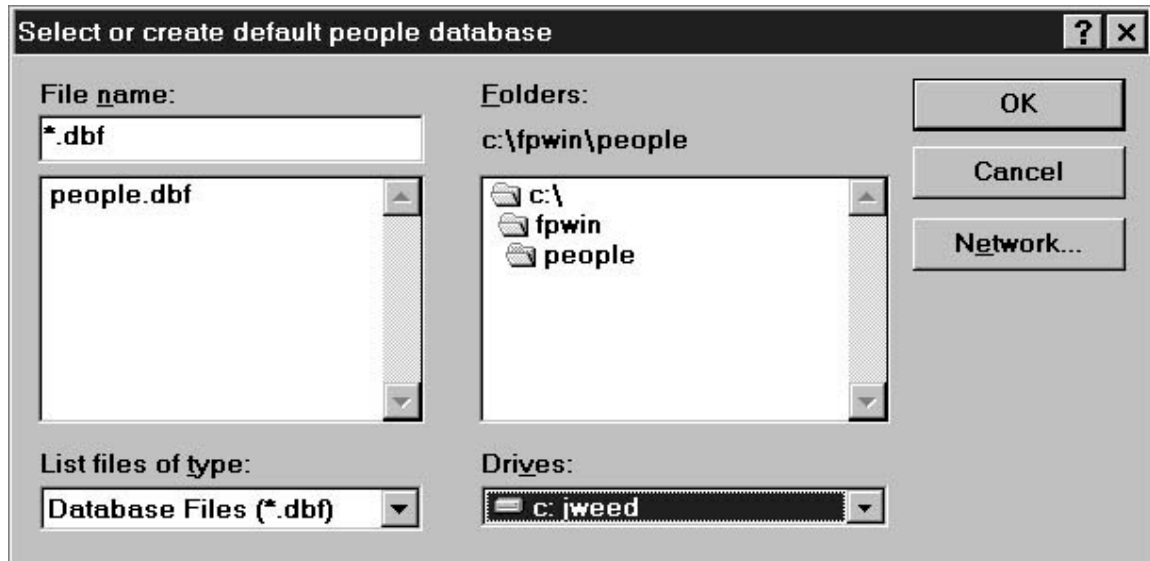


Figure 4-17. Select or create default database Dialog Box

Follow these instructions to select a new default database file. The instructions are the same for all database types.

1. Select **S**etup/**C**reate Default Filenames from the **D**atabase menu. The **S**etup/**C**reate Default Database Filenames dialog box appears (Figure 4-16).
2. Select the type of database you want to change. The **S**elect or create default database dialog box appears (Figure 4-17).
3. Using your mouse, select the name of the new default database. (If the database name does not appear in the list, search for the desired database in other folders. If you are not familiar with basic Windows search techniques, please refer to your Windows documentation.) The name must appear in the **F**ile name bar at the top left of the screen after you have selected it. If you wish to create a new database, type the new file name into the file name bar.
4. Click on the **O**K button. The **S**etup/**C**reate Default Database Filenames dialog box reappears with the name of the new default database displayed in the field next to the appropriate button. Click on the **P**rotected box next to the database name to protect existing records in the database from being changed. With this box selected, you can only add new records to the database, but you cannot edit existing records.
5. To edit the new database file, return to the **D**atabase menu. Select **O**pen. Refer to the instructions in the previous section, *Opening/Updating the Default Database Files*, if you need additional information.

You now see this default database file when you select **O**pen from the **D**atabase menu, and when you begin a fit test.

You can cancel the selection at any time by clicking on the **C**ancel button to return to the **S**etup/**C**reate **D**efault **D**atabase **F**ilenames dialog box.

If you are on a network, click on the **N**etwork button on the **S**elect or create default database dialog box to access other drives on the network.

Creating New Default Database Files

To create new database files, open the **D**atabase menu and select **S**etup/**C**reate **D**efault **F**ilenames. The **S**etup/**C**reate **D**efault **D**atabase **F**ilenames dialog box appears (Figure 4-16). Click on the button for the type of database file you wish to create. The **S**elect or create default database file dialog box appears (Figure 4-17).

Follow these instructions to create a new default database file. The instructions are the same for all database types.

1. Click on the **F**ile **n**ame field of the **S**elect **d**atabase **f**ile dialog box. Enter the name of your new database file. Overwrite the name already in the box if necessary. You do not need to include the .dbf file extension.
2. Click on the **O**K button. The **S**etup/**C**reate **D**efault **F**ilenames dialog box reappears, with the new database name in the field next to the appropriate button.
3. Click on the **O**K button to return to the main menu. Open the **D**atabase menu and select **O**pen, choosing the type of database file you just created. The database opens and displays a blank record.
4. Complete all the necessary fields in the new record. Refer to the tables earlier in this chapter for descriptions of the fields. When you are finished, click on the **N**ew button to display another blank record.
5. Add all your new records. After you have added the last record, click on **O**K. The main menu reappears.

To view your new file, select the appropriate database type using **O**pen from the **D**atabase menu. The first record of your new file appears in the database dialog box.

Using the PORTACOUNT Menu

FitPlus for Windows software allows you to run daily diagnostic tests and provides real-time fit factor displays for use in employee respirator training. Both of these selections are available from the **P**ORTACOUNT menu. The **P**ORTACOUNT menu also includes a Fit Test selection.

Conducting a Fit Test

To begin the fit test, open the **P**ORTACOUNT menu and select **F**it test. The **Select a Person, Step 1 of 5** dialog box appears. The fit test procedure is identical to the procedure described in Chapter 3, *Conducting a Fit Test - Basic Procedures*. Please refer to Chapter 3 for additional information.

If you need specific field descriptions, the fields on the dialog box for Step 1, and on the detailed dialog boxes for Steps 2 and 3, are described in the previous section of this chapter, *Opening and Updating the Current Default Database Files*. These dialog boxes correspond to the People, Respirator, and Protocol database dialog boxes (Figures 4-8, 4-10, and 4-11). Chapter 3 provides information for Steps 4 and 5.

Displaying Real-time Fit Factors

FitPlus for Windows software allows you to display real-time fit factors to assist in employee respirator training. This allows a person to experiment with respirator straps and fit while watching the effect in real-time. The person then learns how each adjustment affects the fit, and learns how to achieve a fit that is comfortable and has minimum leakage. This feature is intended for classroom training and should not be used immediately before a fit test. Using the feature to help the test subject immediately before the official fit test defeats one of the main purposes of fit testing: ***to prove that the test subject knows how to don the mask properly without help***. Use the Real-time Fit Factor feature in the classroom for training and practice only.

Note: *You can use the real-time fit factor display just prior to a fit test as long as you have the test subject remove the mask and put it on again (without help) before the final test.*

Before you start the real-time fit factor display, you must have the PORTACOUNT on and properly attached to the computer, and must have someone wearing a respirator that is properly attached to the PORTACOUNT.

To begin the display, open the **PORTACOUNT** menu and select **Realtime**. The **Realtime Fit Factor Display** dialog box appears (Figure 4-18).

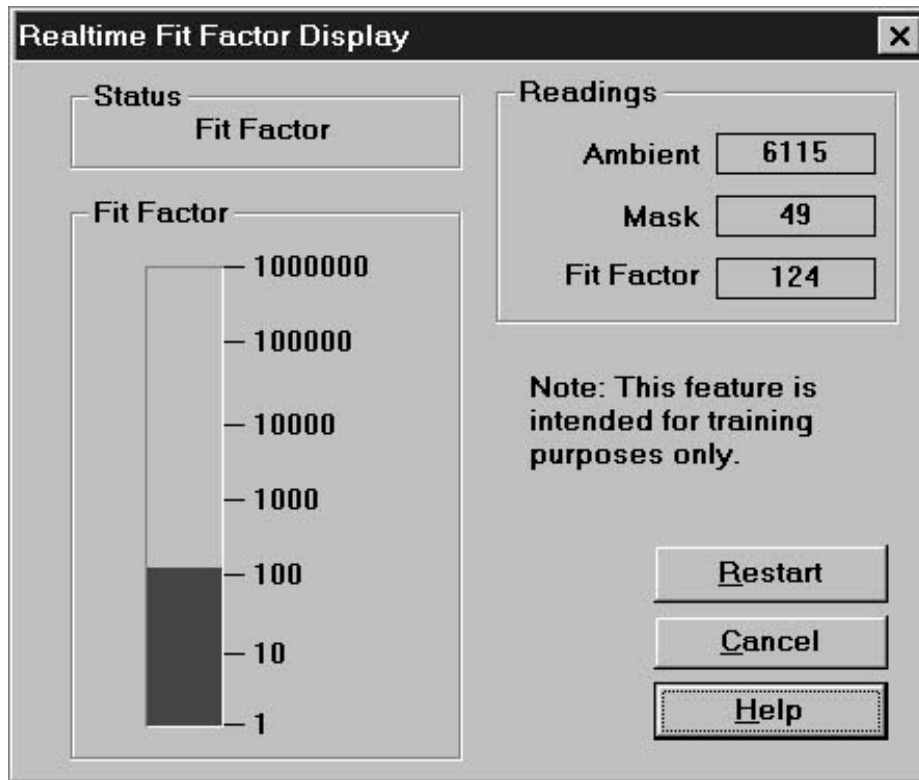


Figure 4-18. Real-time Fit Factor Display Dialog Box

Because this dialog box monitors a process as it occurs, you cannot modify any of the fields manually. You can observe which process is occurring in the **Status** field, see the actual readings for the Ambient and Mask Purges and the Fit Factor in the **Readings** field, and watch the Fit Factor reading fluctuate in the graph portion of the dialog box. You can also stop the display by clicking on the **Cancel** button, and stop and restart the display by clicking on the **Restart** button. The display pauses periodically while the PORTACOUNT takes an ambient reading. Clicking on the **Restart** button forces a new ambient reading immediately.

Performing Daily PORTACOUNT Checks

Daily checks consist of the particle check, zero check, and maximum fit factor check. There is also an optional valve check. TSI Incorporated strongly recommends daily checks of the PORTACOUNT before you begin fit testing. FitPlus for Windows software provides a very easy way for you to complete these checks. Daily Check results are automatically recorded in a database named **daily.dbf**. This database is located in the directory that holds the FitPlus for Windows executable files (usually C:\FPWIN).

FitPlus for Windows automatically initiates the daily checks when you first start the program. The PORTACOUNT must be on and the 60-second countdown must be completed for this to work. You may click **Cancel** to skip the checks.

To start the daily checks manually, open the **PORTACOUNT** menu and select **Daily Checks**. The **Daily Checks** dialog box appears (Figure 4-19).

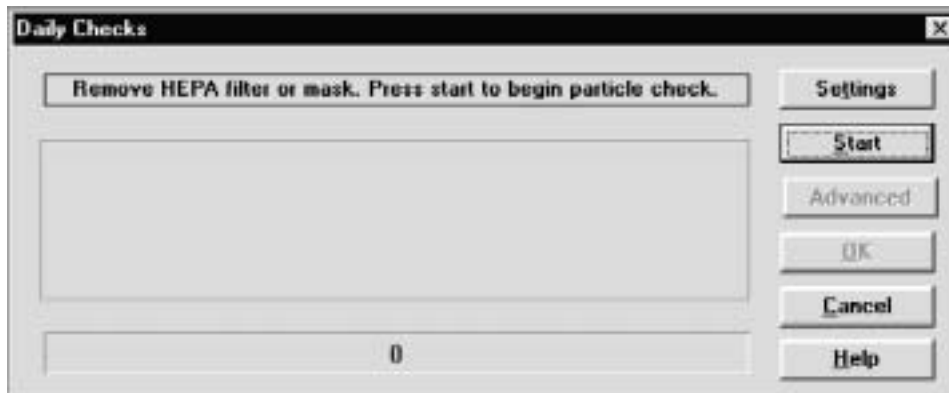


Figure 4-19. Daily Checks Dialog Box

The dialog box instructs you to remove the HEPA filter or mask and press **Start**. Once you click on the **Start** button, the daily check process begins and the status appears in the middle of the dialog box, with the elapsed time in seconds appearing in the bar at the bottom of the dialog box.

*Note: If you wish to change the settings for the Daily check before starting, click on the **Settings** button. The **Daily Checks Settings** dialog box displays the current settings and allows you to reset them. Do not change these settings unless you are sure you should do so. The default settings appear in Figure 4-20.*

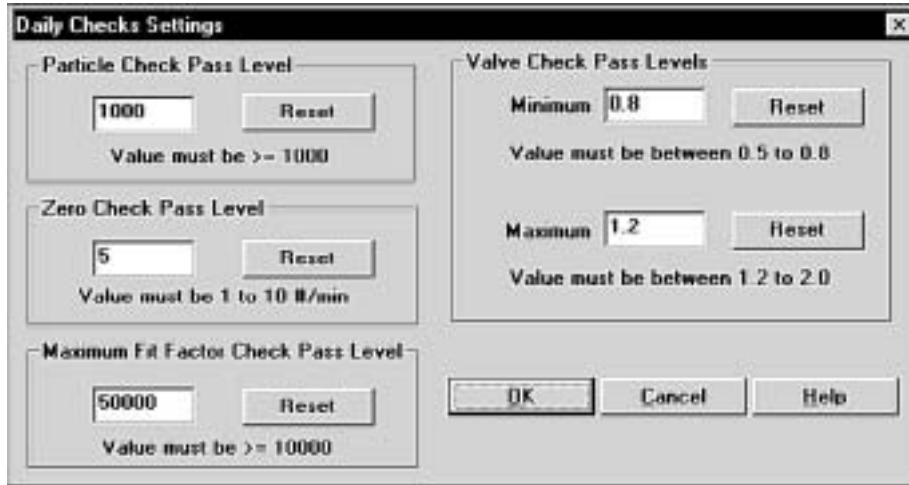


Figure 4-20. Daily Checks Settings Dialog Box

The Particle check is performed first. After the Particle check is complete, the dialog box instructs you to attach a HEPA filter and press **Start** again. This starts the Zero check and Maximum Fit Factor check.

When these checks are complete, you can click on the **OK** button to save the results and close the dialog box, or click on **Advanced** to run the optional Valve check. The dialog box instructs you to again remove the HEPA filter and press **Start**. This starts the Valve check. When the Valve check is complete, all the test results appear in the dialog box. Click on the **OK** button to save the results and close the dialog box. The results are saved in a database called **daily.dbf**. You can access them through the **Report** menu, discussed in the next section.

Using the Report Menu

FitPlus for Windows provides the following reports:

- People Database report
- Respirator Database report
- Protocol Database report
- Fit test Database report
- Next Due report
- Daily check Results report
- DOS Fit Test Database report
- User defined reports 1 through 4 (You can rename and customize these reports.)

You can access these reports by opening the **Report** menu and selecting **Select Report**. The **Report List** dialog box appears (Figure 4-21).

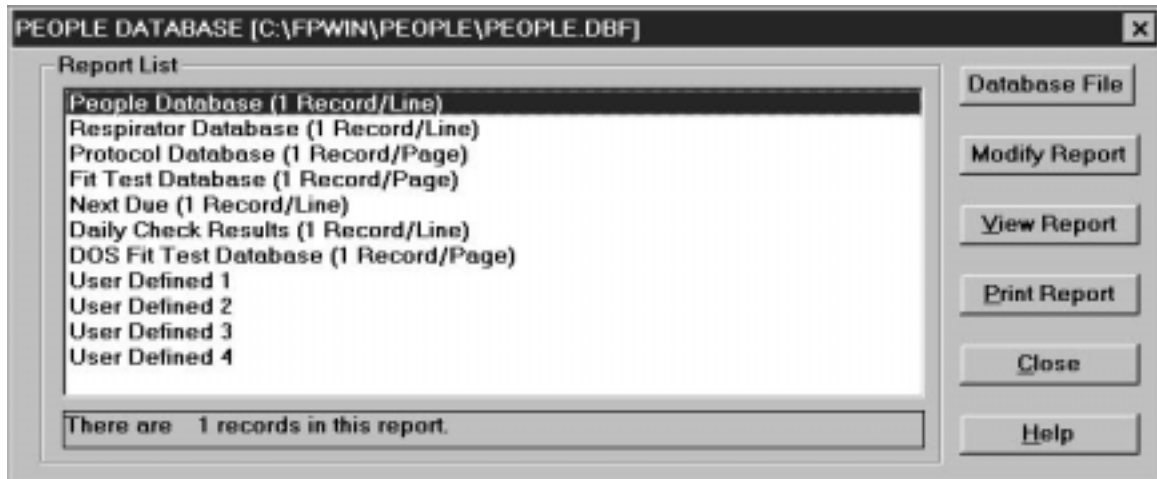


Figure 4-21. Report List Dialog box

The **People Database** is the first in the list, and is highlighted. The name of the database file used for the report appears across the top of the dialog box. This is the default database, although you can choose another database if you wish. The number of records included in the highlighted report appears in the field under the list. The following table describes each of the fields and buttons in the **Report List** dialog box.

Button or Field Name	Function
Report List field	Displays the names of the reports provided by FitPlus for Windows.
Number of Records field	Displays the number of records contained in the report highlighted in the Report List field.
Database File button	<p>Clicking on the Database File button opens the Select database file (Figure 4-17) dialog box and allows you to choose another database for report purposes. The Select database file dialog box is described previously in the <i>Changing the Default Database Files</i> section.</p> <p>Note: Selecting another database in this dialog box does not permanently change the default database used for fit testing.</p> <p>If you do select another file for report purposes and click on the OK button, the new filename then appears at the top of the Report List dialog box.</p>

Button or Field Name	Function
<p>Modify Report button</p>	<p>Clicking on this button displays the Select Fields to Use for Sorting dialog box (Figure 4-22). This dialog box lets you select fields to use for sorting reports. To select a new field:</p> <ol style="list-style-type: none"> 1. Use your mouse to highlight the sort field name on the left hand list. You can add more than one field if you wish. Note that the right-hand list has <end of list> highlighted. Any fields you add to the list appear at the end of the list by default. If you want to insert the fields elsewhere in the list, highlight the field name that you want the new field to appear <i>above</i>. The order of the fields in the right-hand list determines the sort order of the fields in your report. 2. Click on the Add arrow. The names appear in the right hand list. These fields are now used in order to sort the selected report. 3. To remove sort fields, be sure they are highlighted in the right hand list and click on the Remove arrow. The names move back into the left hand list and are not used for sorting. <p>Click on the Next button at the bottom of the Select Fields to Use for Sorting dialog box. The Select Records to Include in Report dialog box appears (Figure 4-23). If you wish to include all records in the report, click on the All Records button at the top left of the dialog box. To include selected records only, click on Selected Records and choose the field you wish to use for filtering in the #1 Select Record with section of the screen, such as Company or Last Name; the filtering operation, such as “equal to” or “greater than”; and the specific filter criteria, such as an actual company name. You can include a second criteria by clicking the And button and completing the #2 Select Record with section of the screen, click on None to use no second criteria, or click on Or to use the second criteria only. Click on the Next button to redisplay the Report List. Click on View Report to display your modified report. All changes to your reports are saved.</p> <p>TO MODIFY USER DEFINED REPORTS</p> <p>If you selected a user defined report to modify, the Rename Report Title (Optional) dialog box appears (Figure 4-24). Type a name for the report if you wish and click on Next. The Select Database dialog box appears (Figure 4-25). Choose the type of database you wish to associate with this report and click on Next. The Select Fields to Include in Report dialog box appears (Figure 4-26). Choose the fields you want in your report and click on Next. The Select Fields to Use for Sorting dialog box appears. Refer to the beginning of this Modify</p>

Button or Field Name	Function
V iew Report button	Clicking on this button displays the first record in the selected report. Click on N ext to view the next record in the report. Click on C lose to return to the Report List dialog box. To select another database, refer to the Database File button description above.
P rint Report button	Clicking on this button sends the selected report to your designated printer. The entire multi-page report is printed. If you want to print selected records only, refer to the Modify report button description above.
C lose button	Clicking on this button closes the Report List dialog box.
H elp button	Clicking on this button accesses the FitPlus online help information.



Figure 4-22. Select Fields to Use for Sorting Dialog Box



Figure 4-23. Select Records to Include in Report Dialog Box

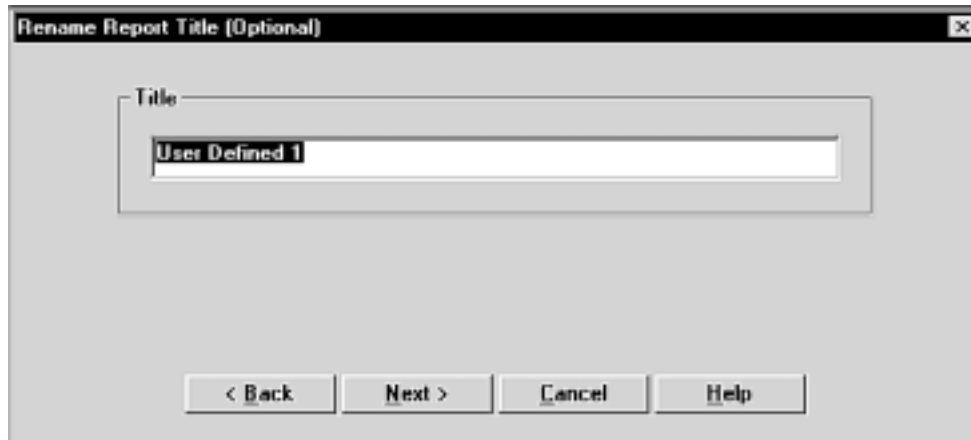


Figure 4-24. Rename Report Title (Optional) Dialog Box

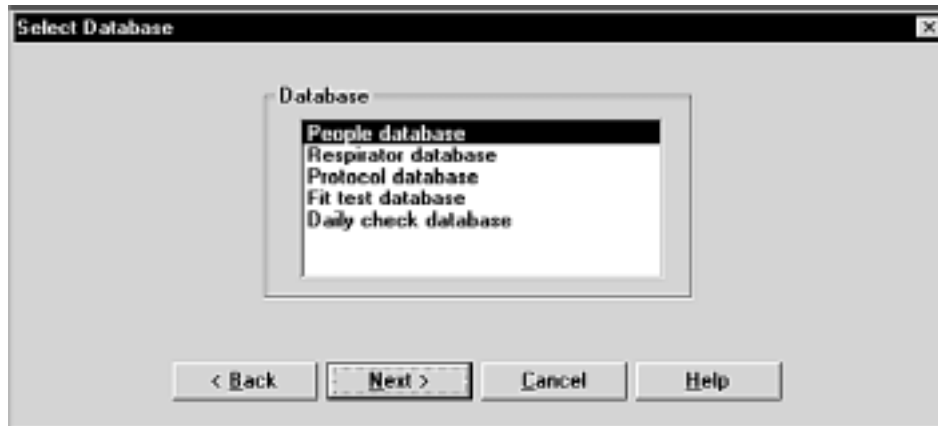


Figure 4-25. Select Database Dialog Box

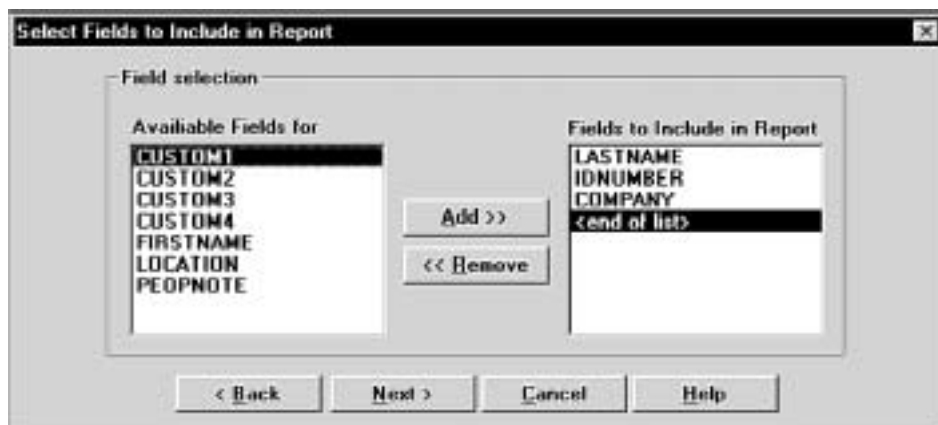


Figure 4-26. Select Fields to Include in Report Dialog Box

When you display the reports using the **View report** button described in the above table, the first record in the report appears on the screen. All reports have a **Next** and a **Close** option in the menu bar across the top of the report screen. Click on **Next** to view the next record in the report. Click on **Close** to return to the **Report List** dialog box.

Report Examples

The following examples include instructions for generating four different types of reports: a Next Due report; a single page Fit Test report; a user defined report; and report based on FitPlus for DOS database files. Although these are only a representative sample of the many reports you can generate with FitPlus for Windows, the examples show how to navigate through the many Report dialog boxes, and should provide some basic guidelines for generating other types of reports.

Example 1 - Next Due Report

Follow the steps below to generate a report showing who is due for a fit test. This report will have one record per line.

1. Open the **Report** menu and choose **Select Report**. From the **Report List** dialog box, select **Next Due**. The report obtains the data from the default Fit Test database. If you want to use a different Fit Test database, click on **Database File** and choose another one. The name of the database file used for the report always appears across the top of the **Report List** dialog box.
2. Click on **Modify Report** to choose the fields to use for sorting: for example, **Last Name** and **ID number**. If you do not select any fields, the report appears blank when you view it.
3. Click the **Next** button to choose the records to include in the report: for example, click **Selected Records** and choose **Due Date less than xx/xx/1996**, using whatever date you wish.
4. Click **None** for the #2 filter.
5. Click **Next** and choose **View Report** or **Print Report**. The report shows all people due for a fit test prior to the date you entered.

Example 2 - Single Page Fit Test Report

Follow the steps below to generate a single page fit test report. Each fit test will be printed on a separate page.

1. Open the **Report** menu and choose **Select Report**. From the **Report List** dialog box, select **Fit Test Database**. The report obtains the data from the default Fit Test database. If you want to use a different database, click on **Database File** and choose another one. The name of the database file used for the report always appears across the top of the **Report List** dialog box.
2. Click on **Modify Report** to choose the fields to use for sorting. If you do not select any fields, the report appears blank when you view it.
3. Click the **Next** button to choose the records to include in the report: for example **Company equal to ABC**.
4. Click **None** for the #2 filter.
5. Click **Next** and choose **View Report** or **Print Report**. The report shows each fit test report on a separate page.

Example 3 - User Defined Reports

Follow the steps below to generate a user-defined report.

1. Open the **Report** menu and choose **Select Report**. From the **Report List** dialog box, select **User Defined 1**.
2. Click on **Modify Report** and type a name for the report in the **Rename Report Title (Optional)** dialog box.
3. Click **Next** and choose the type of database you wish to take the data from. The report will obtain data from the default database.
4. Click the **Next** button to choose the fields to include in the report. The report will be structured in columns with one field per column. The first field in the list is used for column one, the second field for column two, and so forth.
5. Click **Next** and select the fields to use for sorting the report.
6. Click **Next** and select the records to include in the report.
7. Click **Next** and choose **View Report** or **Print Report**.
*Note: If you want to change the database used for the report, click on **Database File** and select a different one.*

Example 4 - Reports Based on FitPlus for DOS Data Files

Follow the steps below to generate a report based on a FitPlus for DOS database file.

1. Open the **Report** menu and choose **Select Report**. From the **Report List** dialog box, select **DOS Fit Test Database**.
2. Click on **Database File** to choose a FitPlus for DOS database file. You can usually find these files in the FitPlus directory on your hard drive. The most commonly used file name is **testdata.dbf**. When you have chosen the file, click on **OK**.
3. Click on **Modify Report** and select a field to sort on.
4. Click **Next** and choose **All Records** or **Selected Records** from the **Select Records to Include in Report** dialog box.
5. Click **Next** and choose **View Report** or **Print Report**. A one page report from each fit test is displayed or printed.

Using the Setup Menu

The two selections on the **S**etup menu allow you to select the communications port for your computer and to change the default fit test options.

Selecting the Communications Port

To select the communications port for the PORTACOUNT, open the **S**etup menu and choose **C**ommunications port. The Communications Port dialog box appears (Figure 4-28).

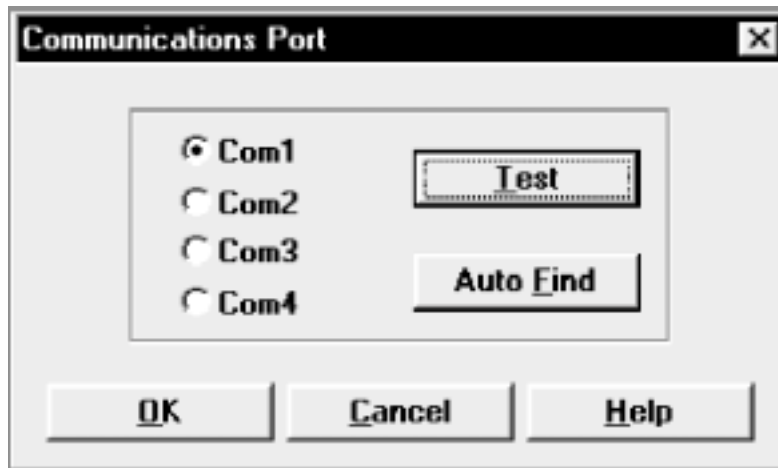


Figure 4-28. Communications Port Dialog box

Make sure your PORTACOUNT is attached to your computer, the power is on, and the 60-second countdown is complete. If you don't know which port number the instrument is attached to, click on **A**uto **F**ind. The software will assign the correct port number.

If you do know the port number, click on **C**om1, **C**om2, **C**om3, or **C**om4. Then, click on **T**est. The software will verify that you have selected the selected the correct port.

Clicking on **O**K saves the information, closes the dialog box, and returns you to the main menu.

Changing the Default Fit Test Options

To change the default fit test options, open the **S**etup menu and select **F**it test options. The Fit Test Options dialog box appears (Figure 4-29).

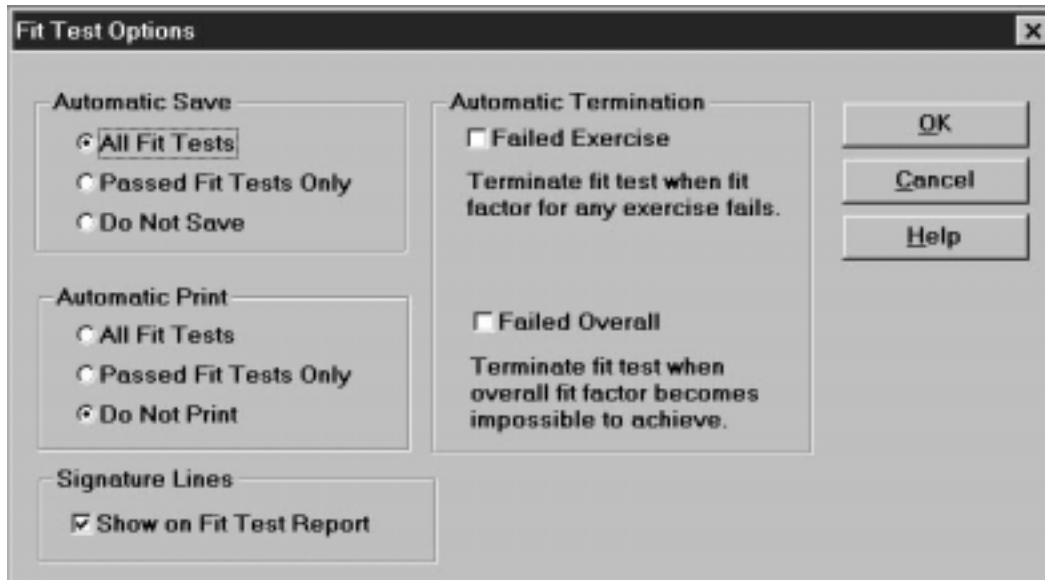


Figure 4-29. Fit Test Options Dialog box

The default settings are to automatically save all fit tests, to not automatically print fit test results, to not automatically terminate fit testing, and to include signature lines on reports. Once you have made any changes to these options, click on **OK**. The dialog box closes, the options are changed, and the main menu reappears.

Automatic Save and Automatic Print

To change the **Automatic Save** and **Automatic Print** options, click on the options you want.

Automatic Save allows you to:

- Save every fit test, regardless of the end result (except manually terminated fit tests).
- Save passed fit tests only
- Never save fit tests

Automatic Print allows you to:

- Print all fit tests, automatically at the end of each test
- Print passed fit tests only, automatically at the end of each test
- Never print automatically

You must have the printer attached to the computer with the power on during fit testing to use the autoprnt options.

Automatic Termination

Automatic termination allows you to terminate a fit test when only one exercise fails, or when it is certain that the overall fit factor will fail.

Failed Exercise

Technically, it is possible to fail an exercise but still pass the overall test. If you want to require that all exercises pass, select the **Failed Exercise** box.

Failed Overall

FitPlus for Windows always warns you when a fit test in progress is progressing so poorly that a passing fit factor is impossible. The fit test continues as usual until the last exercise is complete. The fit test then fails. If you would like to terminate fit tests automatically when an overall failure warning appears, select the **Failed Overall** box.

Signature Lines

The default setting is to show signature lines on single-page fit test reports. If you do not want signature lines, click on the checked box to deselect this feature.