
Chapter 3

Using the Model 2020 ProBalancer Analyzer

(Revision 3, April 2006)

3.1 – Entering Data

Data is entered into the analyzer in one of two ways: directly by typing data using the keypad or indirectly by selecting from preset options. The methods of inputting data are described in the following two sections.

3.1.1 - Using the Keys

The Model 2020 and Model 2020 TURBO analyzer keypad has 25 function keys, 12 of which are multiple-character, alphanumerically labeled.

The Model 2020 HR analyzer keypad has 27 function keys. Two screen contrast keys have been added to simplify screen contrast adjustments.

The multiple-character labeled keys, 1ABC through SPACE +/- will generate each of the characters on the label and insert it into the current field position of the analyzer screen.

To generate the first character, on an alphanumeric key, press the key one time, then pause for two seconds. The character should appear on the screen. To generate the second character on an alphanumeric key, press the key twice rapidly, then pause for two seconds. The character should appear on the screen. Repeat this process for each letter on the key, with the number of times you press the key equivalent to the character's position on the key. You may use the [⇒] key to bypass the two second waiting period and progress directly to the next position in the field.



For example, to type the number “5”, press the key once, wait for two seconds. The number “5” should appear on the screen. To type the letter “N”, press the key three times rapidly, and then wait for two seconds. The letter “N” should appear on the screen.

The insert position of the character being typed is indicated on screen by the cursor. The cursor may be moved to any position in the current field using the left or right arrow keys. If placed in an existing text string, a key stroke of any alpha numeric character key will insert the character into the string at the current cursor position and move existing text to the right one character position.

3.1.2 - Filling in Fields

Data is entered into areas of the screen called fields.

Some fields are represented by boxes with pointed ends (<>). These fields are called “toggle” fields because you must use the [←] [→] keys to toggle, or move, between several preset selections available in the field. After a selection is made, use the [↓] [↑] key to exit the field and any associated changes will take place to the information displayed on the screen.

Some of the fields are represented by boxes that have square-ends ([]). The square-end boxes are text entry boxes. You must enter or edit text in these boxes using the keys as described in the previous section. If you wish to change text already in place in these fields, place the cursor in the field you wish to change then press the [CLR] key once for each character in the field you wish to remove and replace.

Use the [↑] and [↓] keys to move from field to field.

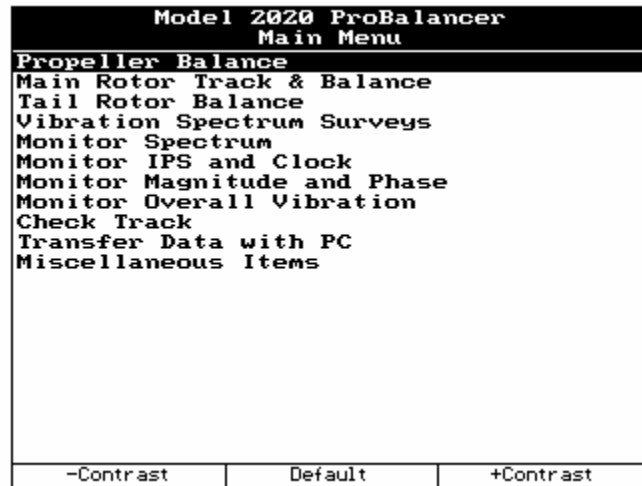
3.2 - Loading a Setup

A “Setup” is a group of instructions defined by you, the user, and stored in the analyzers’ memory for rapid analyzer configuration. This group of instructions combined with certain optional information and analyzer-calculated data allows the analyzer to be custom-configured for virtually any engine/airframe combination in a matter of seconds following initial entry of the information.

Steps in the process of loading and using various setups are explained throughout Chapters 4 through 14 of this manual which address each of the main categories of the analyzer’s functions. All of the main categories of the analyzer’s functions are accessed from the analyzer’s main menu and directly correspond to selections on this menu.

3.3 - Main Menu

The main menu is the first menu to be displayed when the analyzer is turned on. (See the following figure.) From this menu you may access all functions of the analyzer by using the available menu choices. Chapters 4 through 14 of this manual describe each main menu item selection, the function of each item, and the general steps necessary to perform each function.



3.3.1 Setting the Screen Contrast

The screen contrast may be adjusted to compensate for changing ambient light and temperature conditions.

NOTE

If the analyzer is exposed to extremes in temperature, either heat or cold, the LCD may darken or lighten to a point that it cannot be clearly read. If this occurs, press the [MAIN MENU] key and adjust the contrast to compensate for the change by pressing the [F1] key for -Contrast or the [F3] key for +Contrast. If this fails to return the LCD to a viewable state, remove the unit to an ambient room temperature of 65 – 85 degrees F. The LCD should return to its previous state in approximately 30 minutes.

Screen contrast is controlled by pressing one of the function keys ([F1] for less contrast and [F3] for more contrast) on the main menu screen, which is the first menu screen displayed after the analyzer is turned on.

Screen contrast on the Model 2020 HR may also be adjusted from any screen using the contrast keys located on the keypad. Pressing the left-hand key will cause less contrast between the text and background. Pressing the right-hand key will cause more contrast between the text and background.