

User Controls, Control Panel

Line 1 - used to differentiate Menus such as Operator, Temperature, Replenishment.

Line 2 - used for messages such as Film Feeding, Low Liquid Level, or Standby.

Lines 3 & 4 - used to show Operating Conditions such as Dev Time, Dev Temperature.

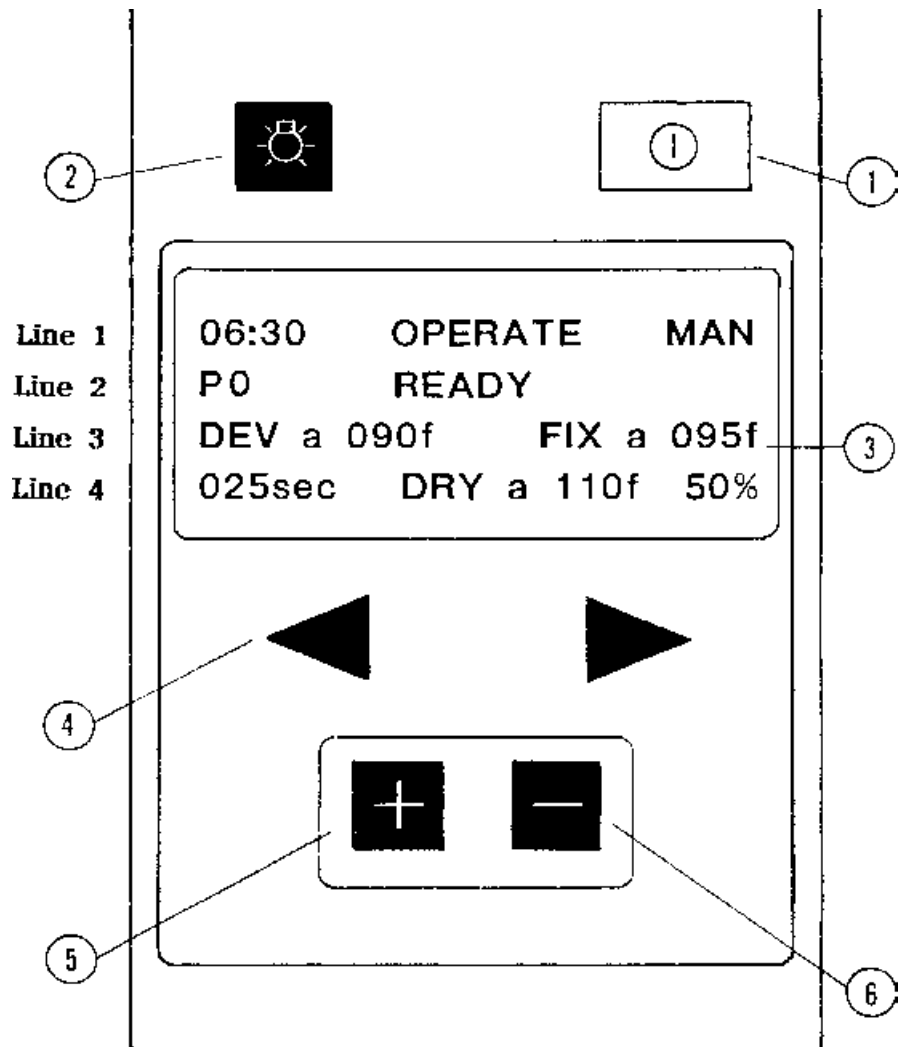


Figure 3-2, Control Panel

When in this screen (OPERATE), menus can be selected. Programs can be changed (P1, P2, P3...), Dev Time can be changed, and the Replenishment % (50%) can be changed to increase or decrease the replenishment ratio.

1. Operate Switch. If the Security Switch is ON pressing this switch will start all processor functions. Press again to turn off all processor functions except the exhaust fan and Control Panel Display.

2. Panel Light. Hold switch down to dim panel lamps. Continue to hold and panel lamps will go to maximum intensity.

3. Display Panel. 4 line by 20 character Alpha Numeric Display.

4. Menu Selector Arrows. Moves the cursor around the screen

5. [+] Button is used as an Enter button if the Cursor is located on the first letter of a Menu. This button is used to increment values if the Cursor is on a Changeable Parameter.

6. [-] Button is used to decrement Changeable Machine Parameters, such as Dev Temp, Dev Time, etc.

Power Down Screen

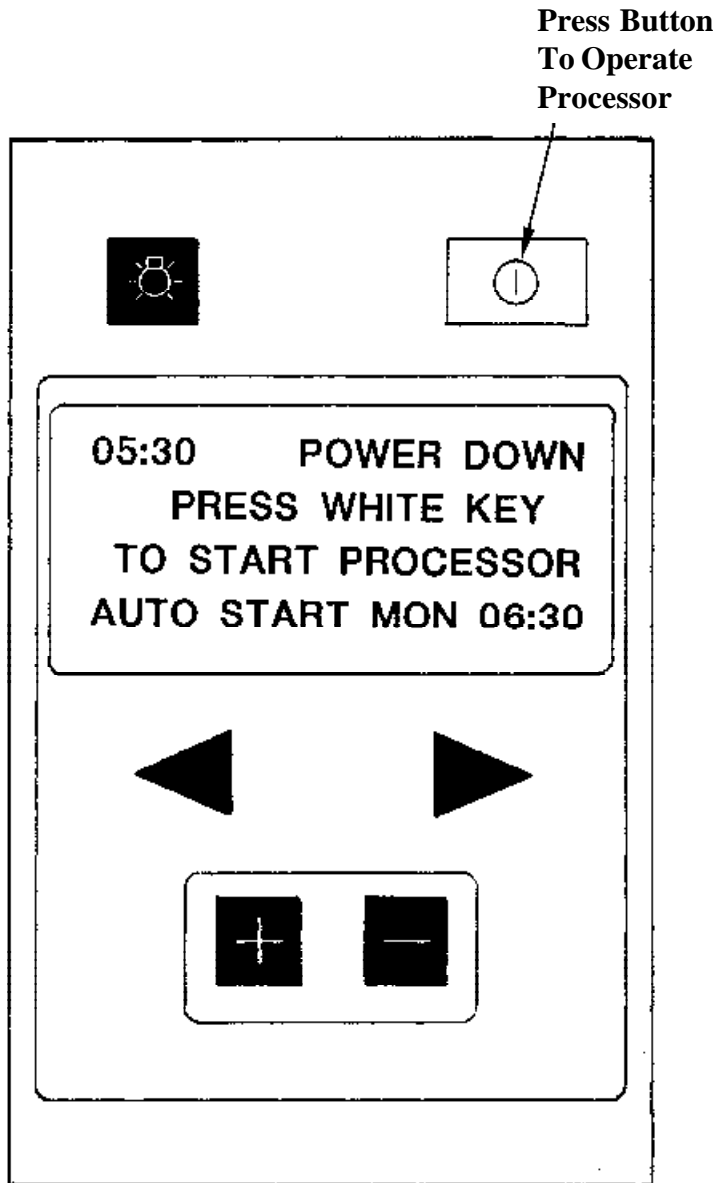


Figure 3-3 Power Down Screen

Shows the Display when the processor functions have been turned off.

Figure 3-2 shows the Operate Display after the processor has been placed in the Operate Mode by pressing the white button.

Operate Screen

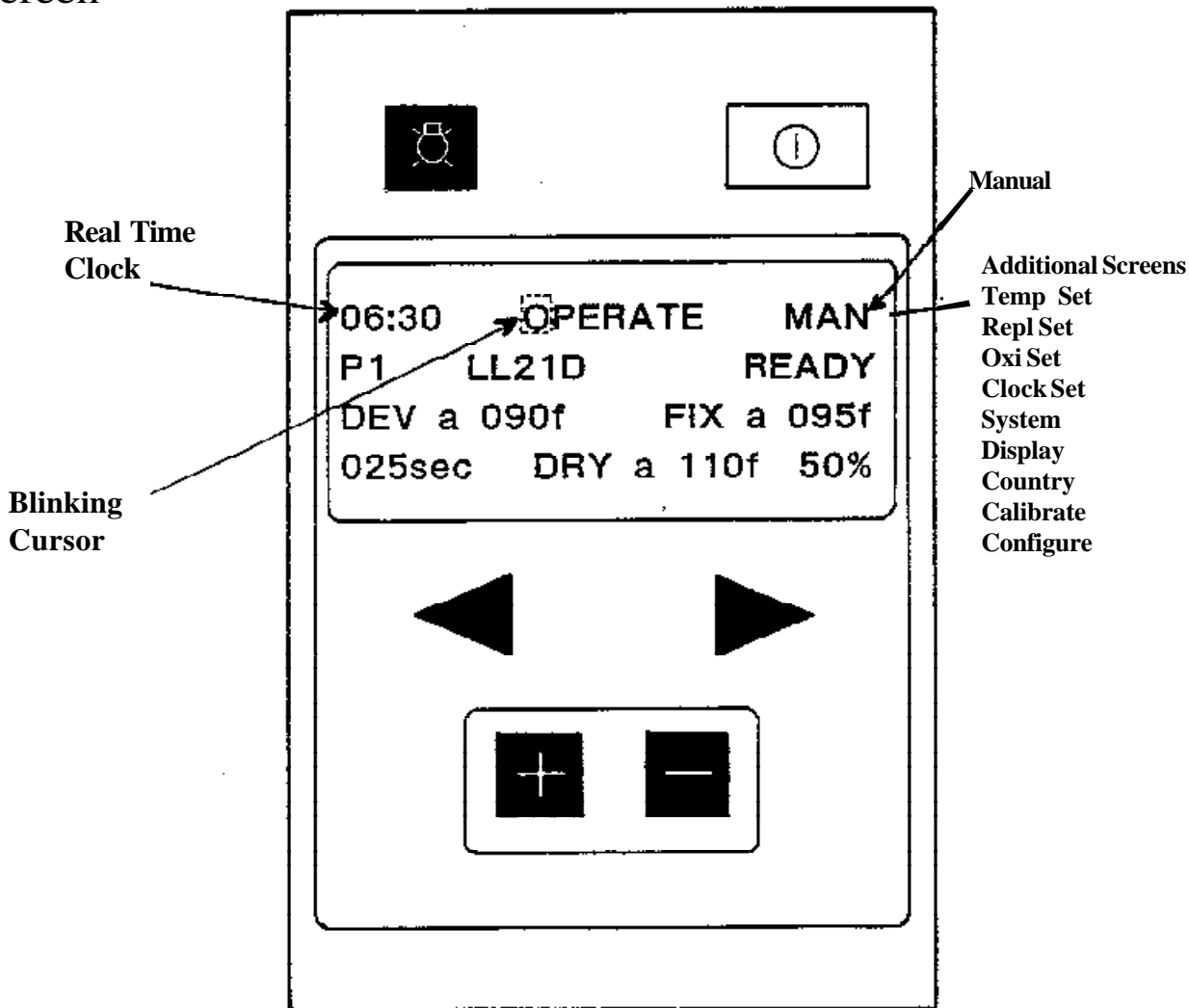


Figure 3-4, Menu Selection

This is the the OPERATE SCREEN. The word "OPERATE" in the middle of the first line shows where we are now. The word to the right shows where we can go next. Notice the cursor located on the "O" in Operate. Also notice that the processor model is shown when the machine is ready. (Dev and Fix temps correct.) The cursor is moved to the right by pressing ►. A different screen can be selected by moving the cursor to the upper right (over the M in MAN) and pressing the [+] button. The display will change to **Figure 3-5**. Notice the list to the right of MAN. These are additional screens which can be selected by repeatedly pressing the [+] button. The screens associated with each will be shown in the following pages.

On This Screen

- 1) Set the Dev Speed (usually 30-35 sec)
- 2) Set the % to match the type of pages being processed. (usually 70 to 80% for a page of type) (The default is 100% which will result in no FIX being used!)

Manual Screen

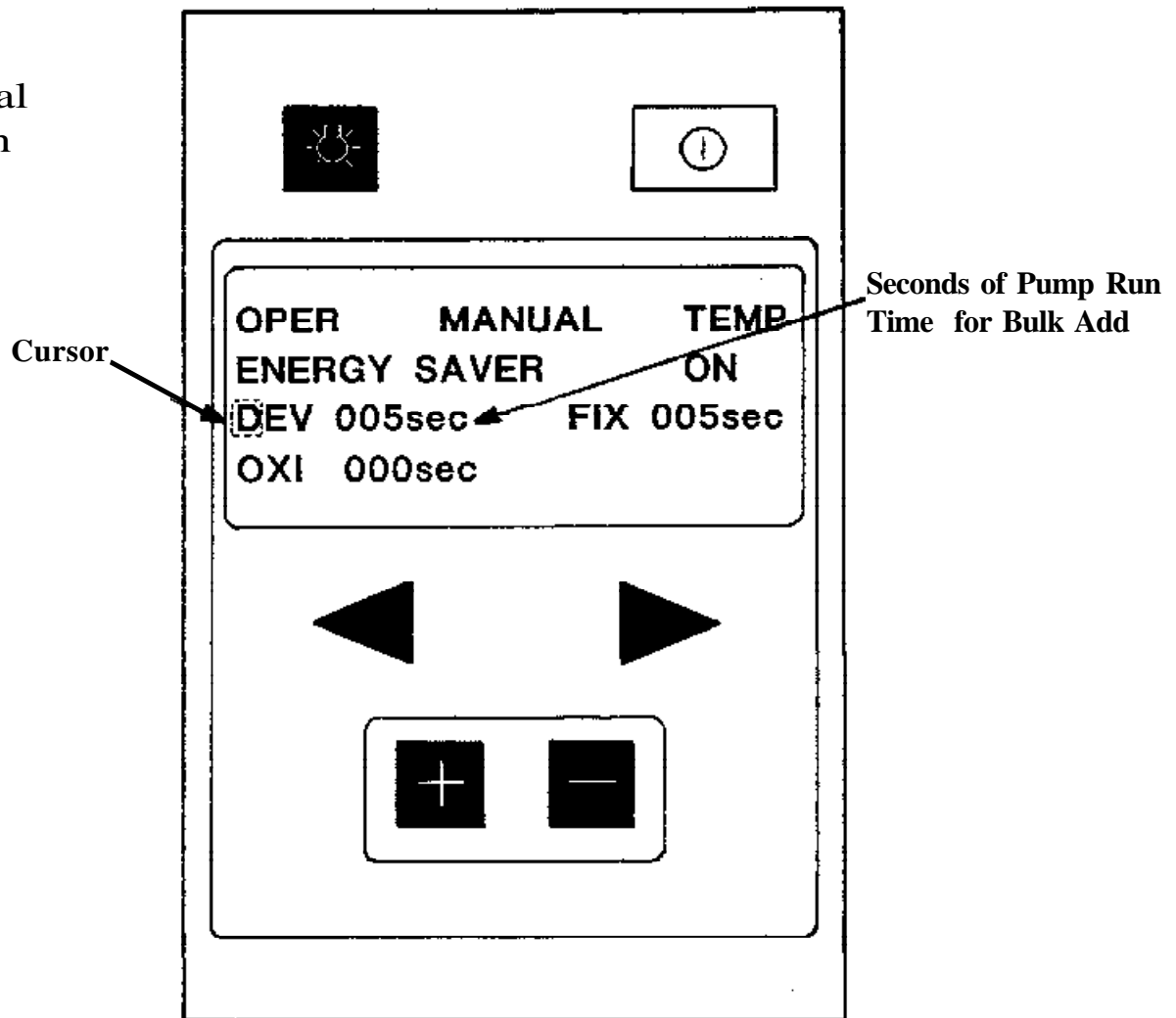


Figure 3-5, Manual Screen

Shows the MANUAL screen with the PUMP ON time, set to 5 seconds. To BULK ADD developer, place the cursor over the [D] in DEV and press the [+] key. To increase the Pump Run Time move the cursor with the ► button to the digit you wish to change. Press [+] or [-] to change the value. Then move the cursor over the [D] and press [+] to add the new amount.

Example: To set BULK ADD to 20 seconds. (A password is not required for MANUAL REPLENISHMENT.)

Press ► until cursor is on 0[0]5. Press [+] until digit in

cursor shows 0[2]5. Press ► to move cursor to 02[5]

Press [-] until DISPLAY shows 02[0].

Select ENERGY SAVER ON to have the dryer turn OFF and speed slow after processing. Select ENERGY SAVER OFF to have processing conditions remain ON.

To go forward to the TEMP set screen put the cursor over the T in TEMP and press [+]. To go back to the Operate screen put the cursor over the O in OPER and press [+].

Temperature Set Screen

WHAT'S THE PASSWORD?

When attempting to make changes to stored temperatures or other machine parameters, the screen will display "Enter Password". To enter the password, hold down the panel light button and press and release the left arrow button, followed by the right arrow button. You have 10 seconds to do this. Changes required after returning to the Operate screen will require re-entering the password.

SAVING THE PROGRAMED DATA

After returning to the Operate Screen change the program number (P0 to P1 and then back again) or turn the processor off with the white button to store all changes.

Now go back through the screens and **WRITE DOWN** the values programmed to save the next guy some trouble! All data will reset to factory defaults (i.e. 79°f for DEV temp) if the power is lost before the data is saved.

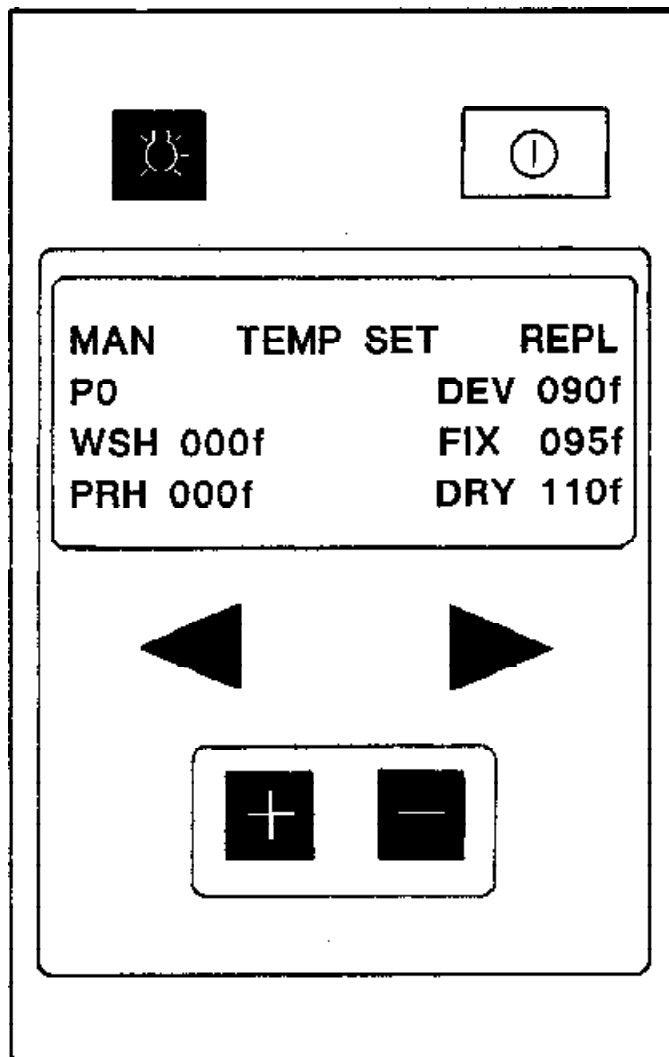


Figure 3-6, Temperature Set Screen

Shows the **Temp Set Screen** with the **Developer Temp** set to 90 Deg. F. To change this value press the ► or ◀ button to locate the cursor over the digit you wish to change and press [+] or [-] to change the value. Complete Password Screen when it appears.

Example: To change Dev Temp from 090 Deg. F to 095, move cursor to 09[0] and press [+] until digits show 095.

Change Menu to Country Screen to change from the English System (Deg. F) to the Metric System (Deg. C). Preheat (PRH) can only be programmed in P0 Memory and will be the same for P0 - P9. Preheat should be set to 100° max. Preheat will be disabled if set to 000. **Always leave WSH set to 000.** There is no wash temp probe so if set to a value other than 000 the processor will constantly display NOT READY even though it works normally.

Set Replenishment Screen

Starting Numbers for Replenishment

The system defaults to 100 (or 1ml per sq in) for DEV and FIX.

This is at least **double** what is needed with most rapid access chemistries. Start with 040 for both DEV and FIX and contact your chemistry dealer or manufacturer to get their recommended replenishment rate (preferably in ml/in²). Once you find the correct rate **WRITE IT DOWN!**

NOTE:

The replenishment will be accurate **ONLY IF**
1) the numbers on this screen (provided by the film and/or chemistry manufacturer) are correct.

2) the % of exposed film is set (on the OPERATE screen) Usually 70 to 80% for a page of type.

3) the pump calibration procedure (on the CALIBRATE screen) is performed.

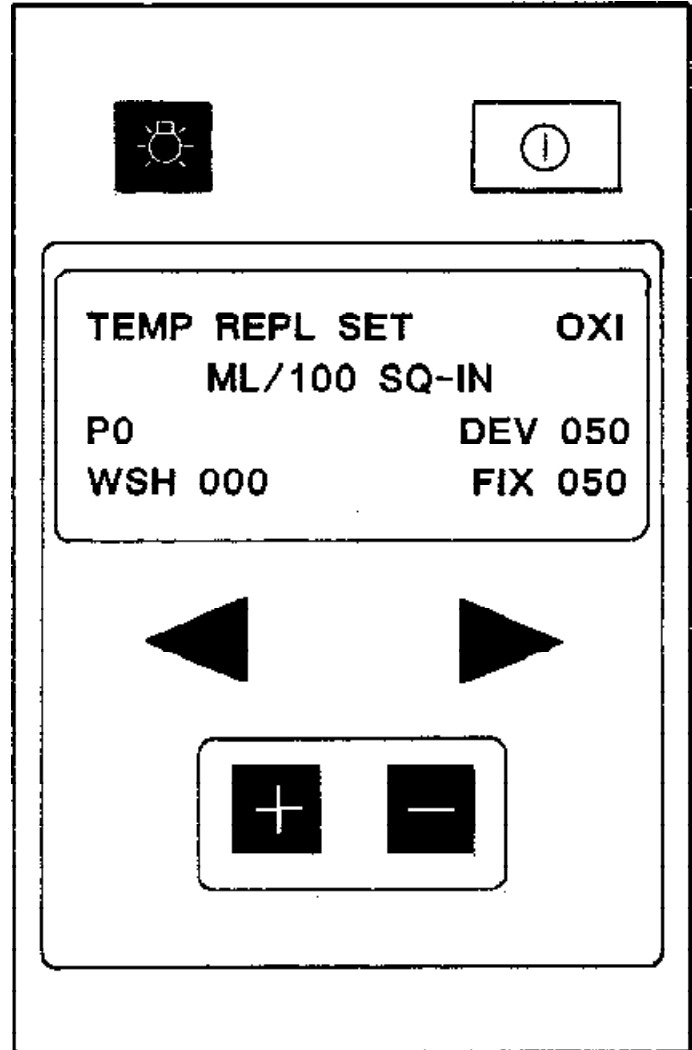


Figure 3-7, Setting the Replenishment Screen

This screen is used to set the exhaustion replenishment amounts for Dev and Fix. The units for replenishment are in milliliters per 100 square inches (or milliliters per square meter); therefore a setting of 050 is equal to .5 ml per square inch.

To change from English to Metric Units, change Menu to the **Country Screen**.

The Wash Repl Rate (WSH) is not used and should be left at 000

Oxidation
Replenishment
Screen

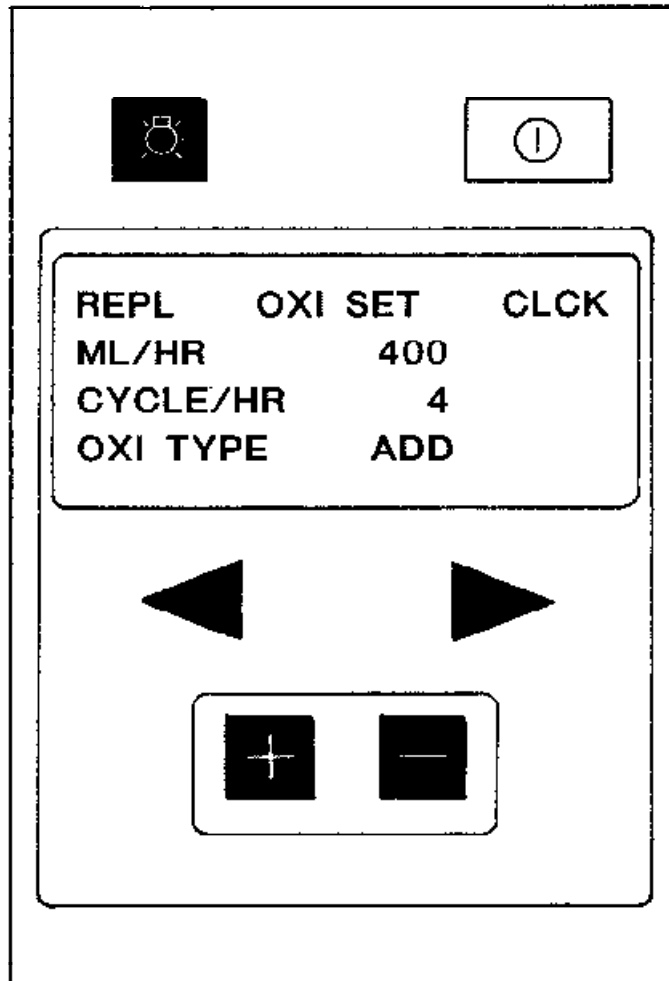


Figure 3-8, Oxi Replenishment Screen

The amount of developer oxidation replenishment in milliliters per hour will be divided by the cycles per hour and added to the processing tank.

In this example 400 ML of chemistry will be divided by 4 cycles per hour. The result will be 100 ML of chemistry added to the processing tank every 15 minutes.

The Oxi Type can be either Additive (ADD) or Subtractive (SUB). Use Subtractive which will pump less Oxidation Replenishment as more film is processed and not waste chemistry.

Clock Set Screen

This line sets the Local Time and the Actual Day of the week. Clock must be reprogrammed for Daylight Savings Time changes

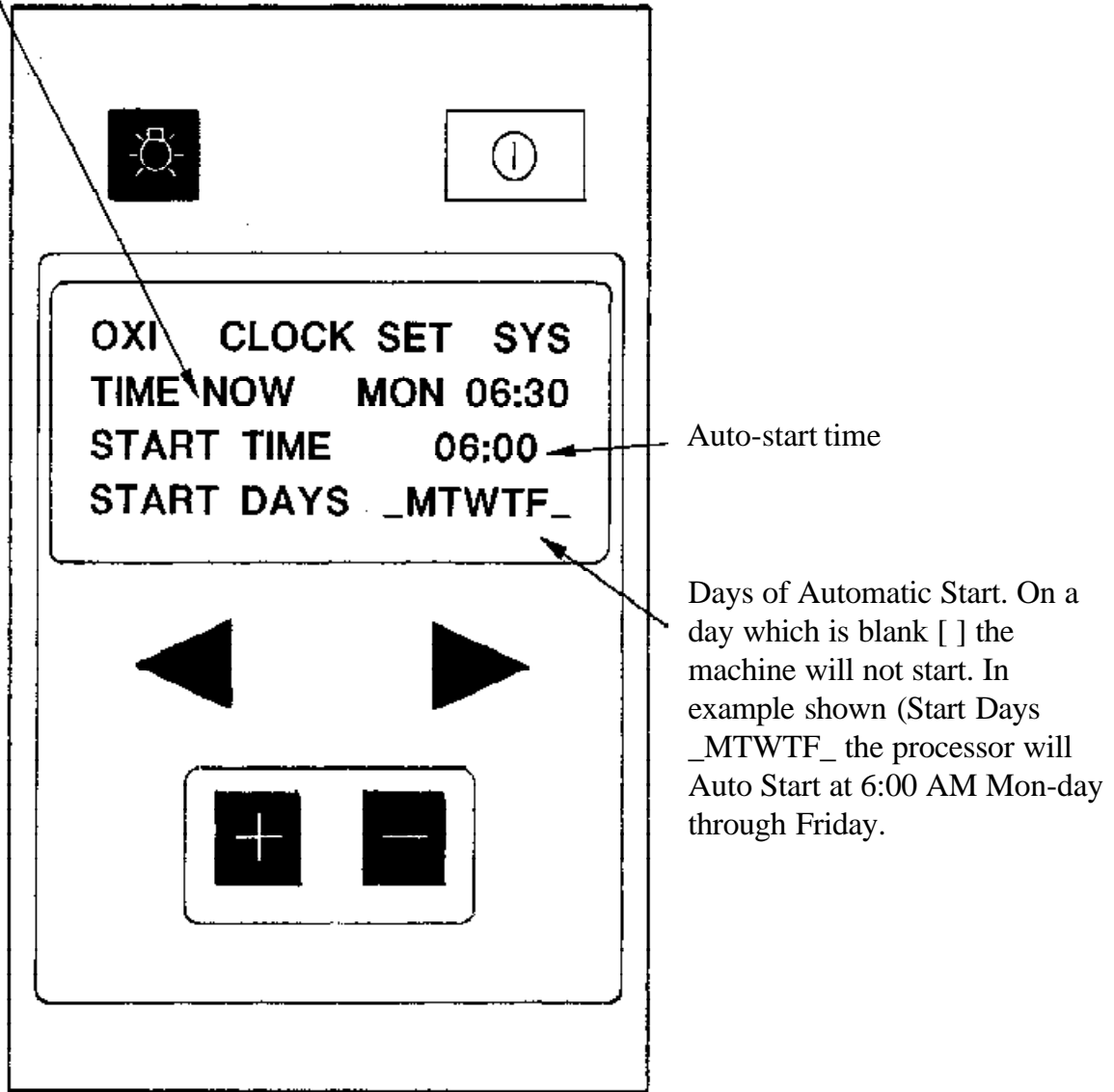


Figure 3-9, Clock Set Screen

The data in this screen is changed the same as the previous screens.

System Screen

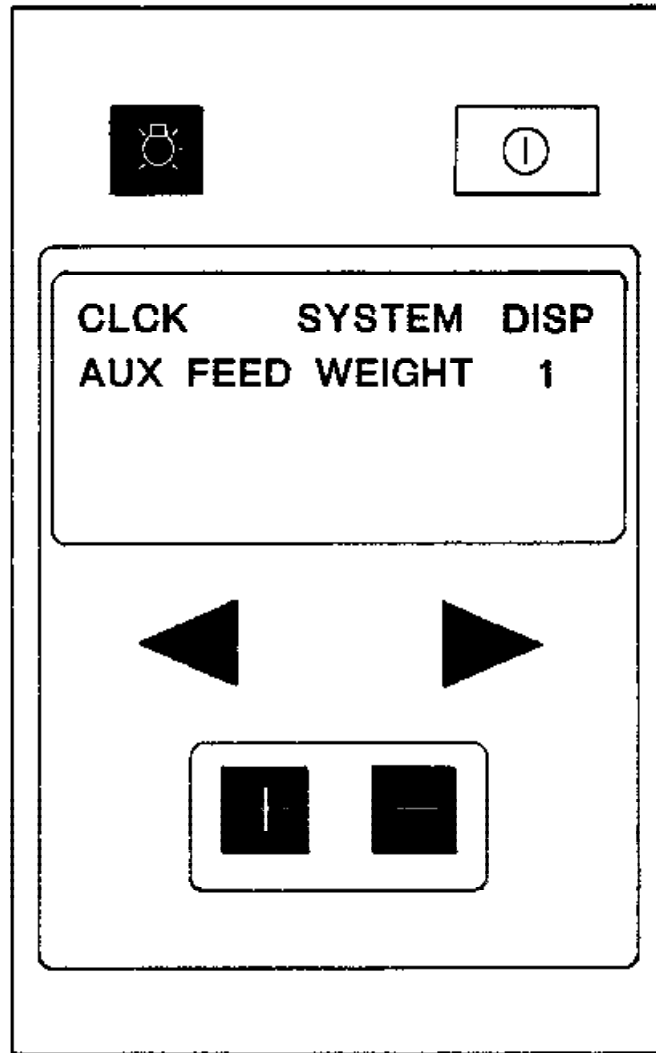


Figure 3-10, System Screen

The **Aux Feed Weight** will determine the amount of replenishment when the processor is operated with a feed switch in a Top Loader, Daylight Feed and Rewash, or an On-Line Transporter. The **Aux Feed Weight** number represents the number of film feed sensors selected when using the above options. For example, **Aux Feed** = 1 if material would operate only one sensor. (12-14" wide material)
Leave set to 1 unless on-line.

Display Set Screen

| | | |
|--------|---------|-------|
| 06:30 | OPERATE | MAN |
| P1 | READY | |
| LEFT | | RIGHT |
| 025sec | CENTER | 100% |

The figure above shows the OPERATE screen and the position of the temp. displays when programmed as shown on the right.

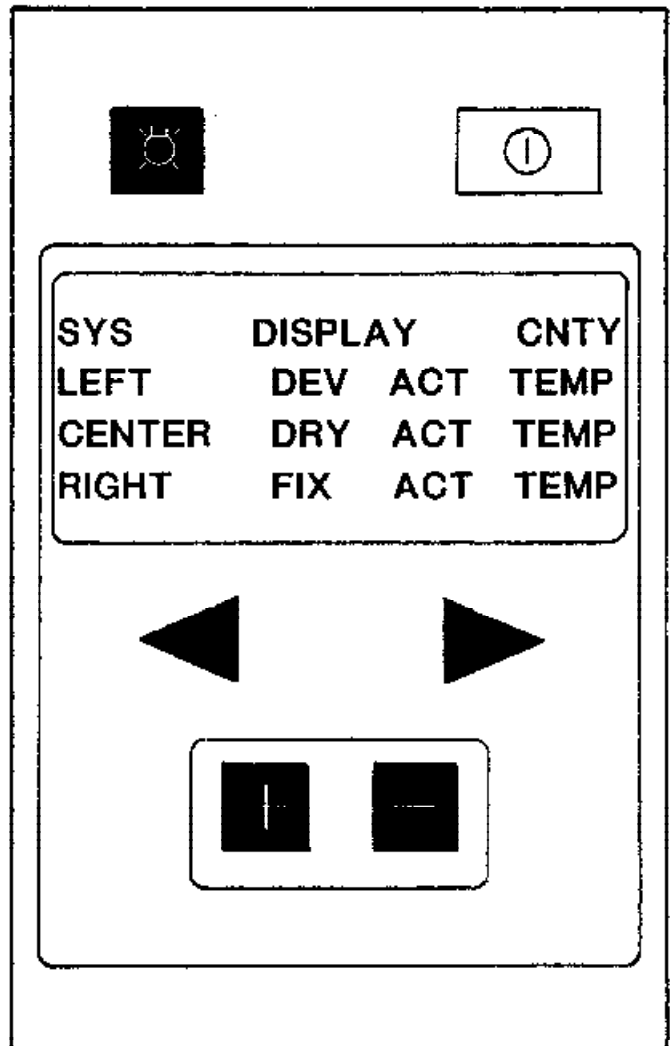


Figure 3-11, Display Set Screen

The operator or supervisor can use the **Display Set Screen** to customize the Display. This screen is used to select what data will be shown in the LEFT, RIGHT and CENTER portion of the display.

The options are:

- Dev Actual Temp**
- Dev Set Temp**
- Fix Actual Temp**
- Fix Set Temp**
- Dryer Set Temp**
- Dryer Act Temp**

Use the ► to highlight the [L] in LEFT then press [+] to select from the list above. Repeat for CENTER and RIGHT.

Country Screen

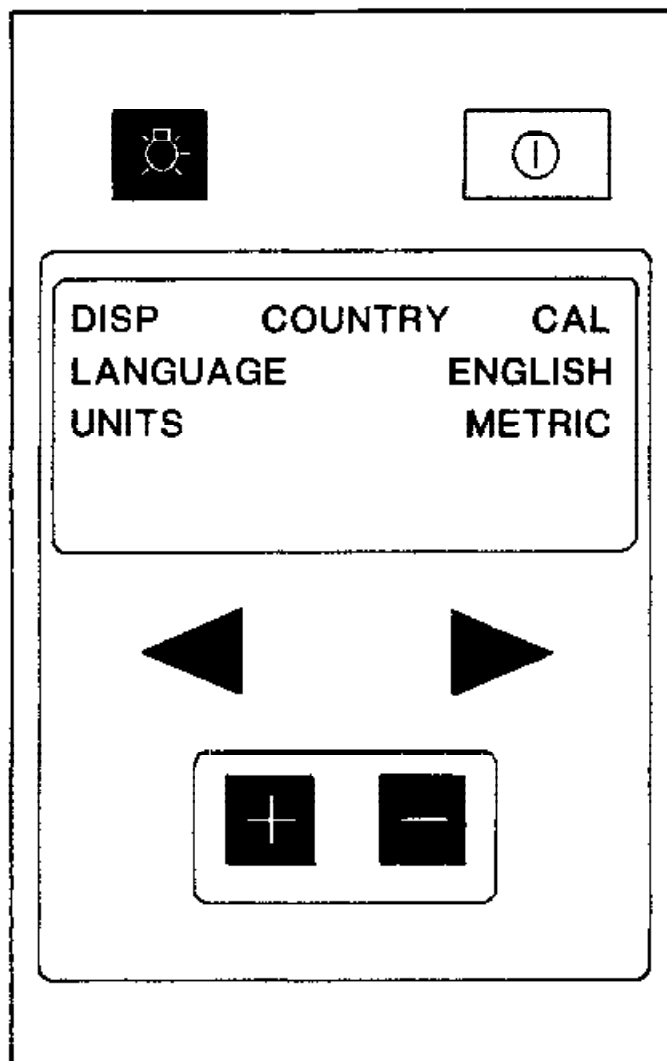


Figure 3-12, Country Service Screen

This screen is used to set the **Language** displayed and the **Units for Temperature** English or Metric (Deg. F or Deg. C) and **Replenishment** (ML/100 In² or M²).

Note: Changing from English to Metric will **NOT** calculate the correct temperature settings. i.e. 95° F = 35° C. Check all screens for conversion errors.

Calibrate Screen

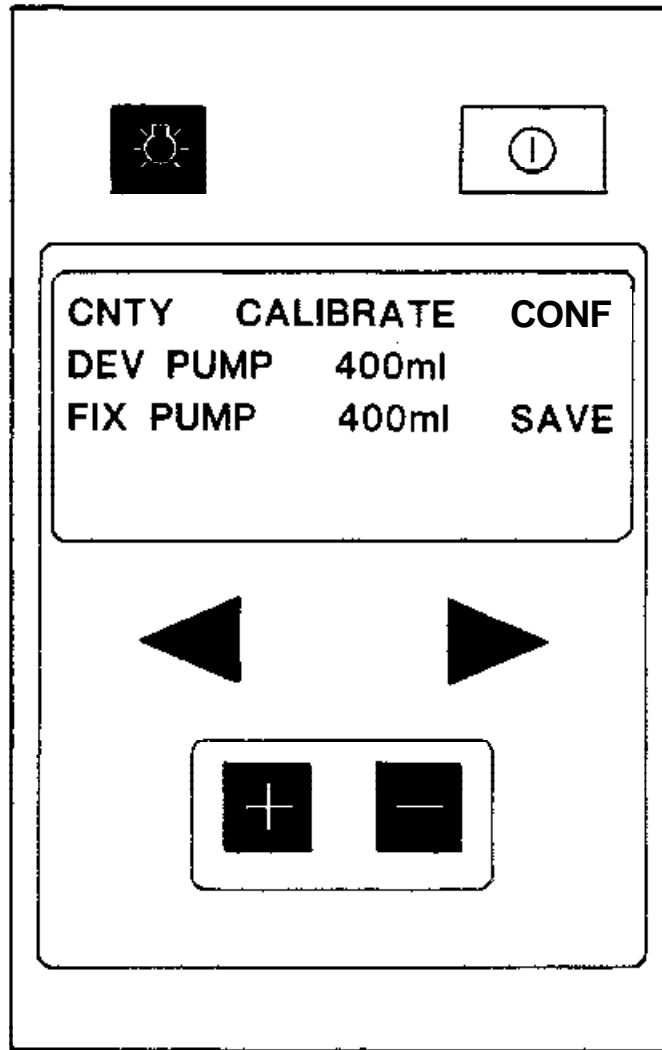


Figure 3-13, Calibrate Screen

The **Calibrate Screen** is used to tell the microprocessor about the performance of the particular oscillating pumps in this processor. This calibration is required when installing the processor for the first time and after replacing a pump (no mechanical adjustments are necessary).

To calibrate, remove the processor cover. Remove the Dev supply hose from the drive shaft plate and hold the end over a measuring cup of at least 500ml capacity. On the **Calibrate Screen** place the cursor on the **[D]** in DEV Press **[+]** (pump time will be 20 seconds). Enter the amount collected for the DEV replacing the default 400. Repeat for Fix. When both are complete put the cursor over the **[S]** in SAVE and press **[+]**. The cursor will pop up to the **[C]** in CON.

Model Configuration Screen

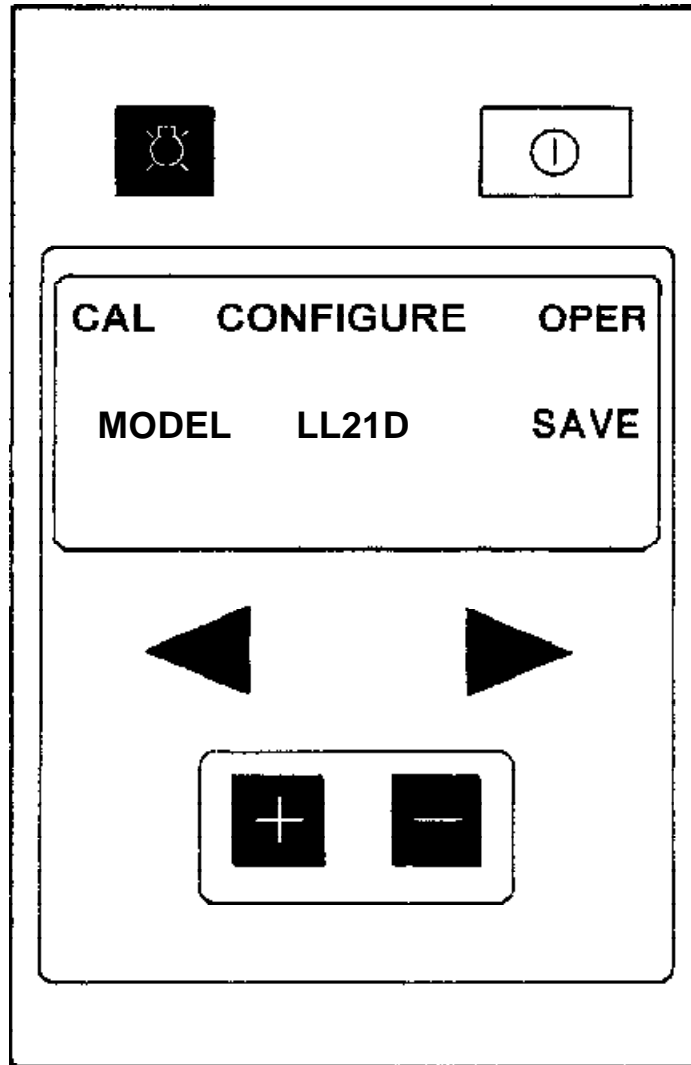


Figure 3-14 Model Configuration Screen

CAUTION: This procedure will reset all programmed settings to the factory defaults.

This is NOT the screen to use to save all your programming !

See page 3-6 for the proper method of saving user programmed settings.

This screen will appear if the settings have been erased by a voltage surge or static electricity zap. It will be necessary to re-configure if the EEPROMs or the MPC or MPOP board is replaced.

To set the correct model, move the cursor to the MODEL line and press [+].

ENTER PASSWORD will appear. After entering the password (see page 3-6) press the [+] to change the model (usually LL21D, Max26 or MX2629).

Put the cursor over the [S] in Save and press [+]. The processor will turn itself off. Press the white Power button and the processor will start in the OPERATE screen. Re-program all user values as necessary.