



1871
SYSTEM

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MODEL 1871 SYSTEM

ML-28762 *1871M*
ML-28761 *1871F*



WORLD HEADQUARTERS
TROY, OHIO 45374

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the Instruction Manuals, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

MODEL 1871 SYSTEM OPERATOR'S MANUAL

SAVE THESE INSTRUCTIONS



GENERAL

The Model 1871 System is a PLU (Price Look-up) scale, capable of storing information on as many as 1605 items (up to 52 characters of description per item), as well as totals data for each item class, and grand totals. Each item record consists of a PLU code, a UPC number, item description, class, tare weight, shelf life, and the price per unit (either weight or by count quantity). There are 33 Speed Keys available for 1 touch data access. The 1871F features fractional pound pricing capabilities. The 1871M features multiple pound pricing capabilities.

The 1871 System printer utilizes a thermal-print method of printing labels and, therefore, requires no ink or ribbon. The printer uses thermal-print labels with a preprinted format and can also use standard 2½" wide thermal-print adding machine paper for listing of the entire file, or totals. In Supervisor Mode, the 1871 can print a Speed Key grid that may be installed under the keyboard overlay to identify items corresponding to each Speed Key. Stick-on paper or standard thermal-print adding machine paper may be used. A Label Taken sensor inhibits a new label from being issued before the current label is taken.

The unit requires a dedicated power supply circuit of 115 VAC, 60 Hz. When the system is turned off, memory and date/time are maintained by a battery for a minimum of 100 hours. The battery automatically recharges when the system is turned on.

CONTROLS

SCALE/PRINTER

The main power is controlled by the main power switch located under the printer cover near the right rear side of the Scale System (Fig. 1). This switch should remain ON whenever the unit is plugged in. However, if it is turned off, it must be turned on as a part of the Power Up Sequence.

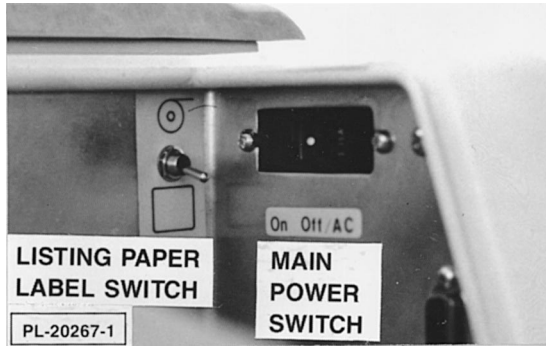


Fig. 1



Fig. 2

The display and scale re-set are controlled by the *On-Off/Rezero* switch (Fig. 2).

To rezero the scale, press the Rezero key on the keyboard.

The key shown in Fig. 3 is required to gain access to supervisor functions, which are explained in a separate Supervisor Manual.



Fig. 3

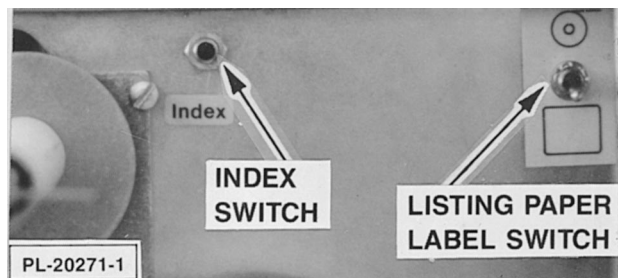


Fig. 4

The Label-Listing Paper switch (Fig. 4) must be pointing toward the label symbol (rectangle) whenever packages are being labeled. In the Supervisor's mode, point the switch to the paper symbol (circle) whenever listing paper or overlay paper is being used. The switch is located just to the rear of the paper roll.

OPERATION

The OPERATION section is broken down into five basic parts:

- The POWER UP SEQUENCE must be executed each time the system is turned on.
- VOID and REZERO explains use of these key.
- NORMAL OPERATION explains the normal routine for labeling products.
- MISCELLANEOUS PRODUCT LABELING explains the procedure for generating labels for products that do not have a PLU number assigned to them.
- OVERRIDE OF PROGRAMMED ITEM INFORMATION explains how to temporarily change data that is part of an existing item record.

POWER UP SEQUENCE

Turn on the Main Power Switch located under the printer cover.

To begin operation, turn the system's *On-Off/Rezero* switch *On*. This then activates the display.

The POWER UP SEQUENCE merely consists of entering the date, and time and is executed as described.

If the prompt DEL ALL FILES is displayed, refer to the TROUBLESHOOTING section on page 13 of this manual.

POWER UP SEQUENCE

ACTION	DISPLAY
1. Turn ON/OFF REZERO switch ON.	"DATE MM-DD-YY" is displayed, where: MM = Month DD = Date YY = Year.
2. To set the date, touch the six digits on the keyboard. (Ex. Sept. 1, 1986 = 090186)	"DATE" 09-01-86" is displayed.
3. To accept the date, press the Enter/Hold key.	"TIME HH-MM AM SS" or "TIME HH-MM PM SS" is displayed, where: HH = Hours MM = Minutes SS = Seconds.
4. To set the time, touch the five digits on the keyboard. (Example: 8:00 AM 0800 0 or 8:00 PM 0800 1).	"TIME 08-00 AM" or "TIME 08-00 PM" is displayed.
5. To accept the time, press the Enter/Hold key.	"SCALE WARMUP" is displayed briefly, then "09-01-86 PLU" is displayed.
	The scale is now ready to enter a PLU number and to weigh and print labels.

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5. To accept the time, press the Enter/Hold key.	"SCALE WARMUP" is displayed briefly, then "09-01-86 PLU" is displayed.
	The scale is now ready to enter a PLU number and to weigh and print labels.

VOID AND REZERO

Void

If you make a label with a mistake on it and wish to remove that transaction from the totals, follow this procedure:

1. Immediately after the label is printed, touch *Void* key.
2. "VOID TRANSACTION" is displayed (meaning that the previous transaction is subtracted from the totals).
3. Date PLU is displayed.

Rezero

If a non-zero number is shown on the WEIGHT display when the platter is empty, follow this procedure to rezero:

1. Date PLU is displayed.
2. Touch *Rezero* key.
3. SCALE WARMUP is displayed, briefly. Then WEIGHT 0.00 and Date PLU is displayed.

NORMAL OPERATION

Three modes of normal operation are available. The **Random Weight Mode** is utilized when you are labeling different products, the **Prepack Mode** is for use when you are labeling a large quantity of the same product, and the **By Count Mode** is for items that are sold "by count" instead of "by weight".

In the **Random Weight Mode** and the **By Count Mode**, label printing is started by touching the *Print* key. In the **Random Weight Mode** the PLU code and all related information is **cleared** when the package is removed from the scale platter. In the **By Count Mode**, the PLU code and related information are cleared by touching the *Clear* key.

In the **Prepack Mode**, label printing is initiated by placing a package on the scale platter. When the package is removed, the PLU code and related information are retained until the *Clear* key is touched.

The following chart describes the normal modes of operation.

1. Date PLU is displayed.
2. Touch appropriate Speed Key or enter PLU Code Number and touch ENTER/HOLD * **.
3. Go to one of the three Modes.

RANDOM WEIGHT MODE	BY COUNT MODE	PREPACK MODE
4. Place package on scale platter.	4. Touch PRINT.	4. Touch ENTER/HOLD.
5. Touch PRINT.	5. Printer issues label.	5. Place package on scale platter.
6. Printer issues label.	6. Place label on package.	6. Printer issues label.
7. Remove package from scale and apply label.	7. Repeat steps 4-6 if additional labels are needed.	7. Remove package from scale and apply label.
	8. Touch CLEAR to process a different item.	8. Repeat steps 5-7 if additional packages of the same item are to be processed.
		9. Touch CLEAR to process a different item.

*ENTER/HOLD is not required if using the PLU AUTO-LOOKUP feature.

**If Forced Tare and/or Forced Price is used, the system waits until an entry is made.

MISCELLANEOUS PRODUCT LABELING (This is an OPTION which may be programmed by a qualified Hobart service technician.)

Miscellaneous items that do not have a PLU code assigned can still be labeled with a random weight bar code and general description. There are two PLU codes (9990 & 9991) set aside for such products.

If the item is to be priced by count, touch **By Count** to automatically call up PLU code 9990. You may then enter a quantity and price to be printed on the label. A quantity of 1 is automatically selected by the system and can be changed, if desired, by touching the appropriate number(s) on the keyboard.

If the item is to be priced by weight, touch **Price** or **Tare** to automatically call up PLU code 9991. You may then enter the price per unit of weight and/or a tare weight.

The next three charts describe how to obtain labels for miscellaneous items.

**TO USE BY COUNT KEY FOR
MISCELLANEOUS BY COUNT ITEMS**

1. Date PLU is displayed.
2. Touch BY COUNT. PLU 9990 is displayed.
3. Enter the quantity on the keyboard.
4. Touch PRICE.
5. Enter the price on the keyboard.
(Example: 129 means \$1.29).
6. Touch PRINT.
7. Printer issues label.
8. Place label on package.
9. Repeat steps 5-7 if additional labels are needed.
10. Touch CLEAR to process a different item.

TO USE PRICE KEY FOR MISCELLANEOUS WEIGHT ITEMS

1. Date PLU is displayed
2. Touch PRICE. PLU 9991 is displayed.
3. If fractional pound scale, touch $\frac{1}{4}$ #, $\frac{1}{2}$ # or 1#. If multiple pound scale, touch the appropriate number (1 is automatic) and then touch *lbs. for*. If kilogram scale, touch .1 kg or 1 kg.
4. Enter the price on the keyboard.
(Example: 129 means \$1.29).
5. Touch TARE.
6. Enter the tare weight on the keyboard
(Example: 02 means .02 lbs).
7. Go to one of the two Modes.

RANDOM WEIGHT MODE

8. Place package on scale platter.
9. Touch PRINT.
10. Printer issues label.
11. Remove package from scale and apply label.

PREPACK MODE

8. Touch ENTER/HOLD.
9. If you want to change the item's SHELF LIFE, touch SHELF LIFE key. Enter the new shelf life and touch ENTER/HOLD.
10. Place package on scale platter.
11. Printer issues label.
12. Remove package from scale and apply label.
13. Repeat items 10-12 if additional packages of the same item need processed.
14. Touch CLEAR to process a different item.

TO USE TARE KEY FOR MISCELLANEOUS WEIGHT ITEMS

1. Date PLU is displayed.
2. Touch TARE. PLU 9991 is displayed.
3. Enter the tare weight on the keyboard.
(Example: 02 means .02 lbs).
4. Touch PRICE.
5. If fractional pound scale, touch $\frac{1}{4}$ #, $\frac{1}{2}$ # or 1#. If multiple pound scale, touch the appropriate number (1 is automatic) and then touch *lbs. for*. If kilogram scale, touch .1 kg or 1 kg.
6. Enter the price on the keyboard.
(Example: 129 means \$1.29).
7. Go to one of the two Modes.

RANDOM WEIGHT MODE

8. Place package on scale platter.
9. Touch PRINT.
10. Printer issues label.
11. Remove package from scale and apply label.

PREPACK MODE

8. Touch ENTER/HOLD.
9. If you want to change the item's shelf life, touch SHELF LIFE key. Enter the new shelf life and touch ENTER/HOLD.
10. Place package on scale platter.
11. Printer issues label.
12. Remove package from scale and apply label.
13. Repeat steps 10-12 if additional packages of the same item need processed.
14. Touch CLEAR to process a different item.

OVERRIDE OF PROGRAMMED ITEM FILE INFORMATION (This is an OPTION which may be programmed by a qualified Hobart service technician).

Occasionally, it becomes necessary to temporarily change product data that is stored in the item file; for example, when marking down day-old items, honoring a customer's rain check for a previous sale item, or when using a packaging tray other than the normal one.

Data available for override includes price, tare weight, by count quantity, and shelf life when in the Prepack Mode. This override is temporary and does not affect the permanent item record stored in the item file.

This chart describes how to override any or all available data.

1. Date PLU is displayed.
2. Touch the appropriate Speed Key or enter the PLU Code Number and touch ENTER/HOLD *.
3. Go to one of the three Modes.

BY COUNT MODE	RANDOM WEIGHT MODE	PREPACK MODE
4. If you want to override the By Count Quantity go to step 5; otherwise go to step 7.	4. If you want to override the price, go to step 5; otherwise go to step 8.	4. If you want to override the Price, to to step 5; otherwise go to step 8.
5. Touch BY COUNT for quantity override.	5. Touch PRICE for price override.	5. Touch PRICE for price override.
6. Enter the new quantity on the keyboard. Example: 3 (1 is automatic).	6. If fractional pound scale - touch ¼#, ½#, or 1#. If Multiple pound scale, touch the appropriate number (1 is automatic) and then touch <i>lbs. for.</i> If kilogram scale, touch .1 kg or 1 kg.	6. If fractional pound scale - touch ¼#, ½#, or 1#. If Multiple pound scale, touch the appropriate number (1 is automatic) and then touch <i>lbs. for.</i> If kilogram scale, touch .1 kg or 1 kg.
7. If you want to override the Price, go to step 8; otherwise go to step 10.		
8. Touch PRICE for price override.	7. Enter the new price on the keyboard. (Example: 129 means \$1.29).	7. Enter the new price on the keyboard. (Example: 129 means \$1.29).
9. Enter the new price on the keyboard. (Example: 129 means \$1.29).	8. If you want to override the tare, go to step 9; otherwise to got step 11.	8. If you want to override the tare, go to step 9; otherwise go to step 11.
10. Touch PRINT.	9. Touch TARE for tare weight override.	9. Touch TARE for tare weight override.
11. Printer issues label.		
12. Place label on package.	10. Enter the new tare weight on the keyboard. (Example: 02 means .02 lbs).	10. Enter the new tare weight on the keyboard. (Example: 02 means .02 lbs).
13. Repeat steps 10-12 if additional labels are needed.		
14. Touch CLEAR to process a different item.	11. Place package on scale platter.	11. Touch ENTER/HOLD.

* ENTER/HOLD is not required if using the AUTO-LOOKUP feature.

(continued on next page.)

RANDOM WEIGHT MODE

12. Touch **PRINT**.
13. Printer issues label.
14. Remove package from scale and apply label.

PREPACK MODE

12. If you want to override the shelf life, go to step 13; otherwise, go to step 16.
13. Touch **SHELF LIFE** for shelf life override.
14. Enter the new shelf life on the keyboard. (Example: 30 means 30 days). (Entering 999 inhibits printing of the date on the label).
15. Touch **ENTER/HOLD**.
16. Place package on scale platter.
17. Printer issues label.
18. Remove package from scale and apply label.
19. Repeat steps 16-18 if additional packages of the same item are to be processed.
20. Touch **CLEAR** to process a different item.

TO MAKE A VALUE ONLY LABEL (Miscellaneous By Count PLU)

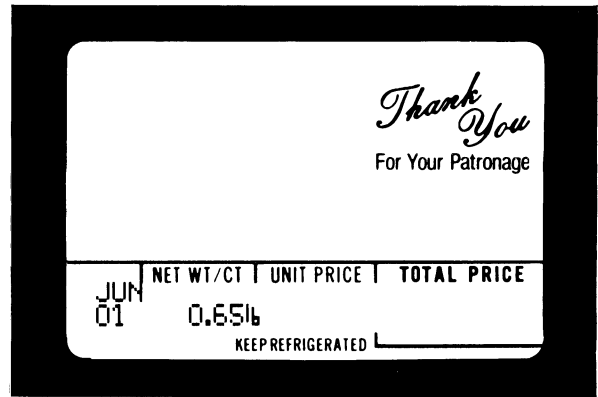
1. Date PLU is displayed.
2. Touch **BY COUNT**. PLU 9990 is displayed.
3. Touch **PRICE**.
4. Enter the price on the keyboard. (Example: 129 means \$1.29.)
5. Touch **PRINT**.

Note: A Value Only Label can be printed on any By Count PLU when the By Count Quantity is set to 1.



TO MAKE A WEIGHT ONLY LABEL

1. Date PLU is displayed.
2. Touch **PRICE**.
3. Place package on platter
4. Touch **PRINT**.



VERIFY CORRECTNESS OF WEIGHT AND PRICE

Verification of information on labels should be made routinely. Check the multiplication of price-per-pound times weight and check the indicated weight against printed weight. Weigh the same package several times to verify consistency. Bear in mind that some packages which weigh near the middle of the .01 lb. increment will normally vary up or down by .01 lb. Greater variations than .01 lb. indicate a need for adjustment of the system. In such cases, or whenever necessary, call your authorized Hobart service representative.

MAINTENANCE

CLEANING

It is important to keep the printer cover closed during use. Use appropriate food containers and wrapping material when weighing product.

Use a damp cloth moistened with mild detergent and water solution to wipe the exterior of the scale to remove dust and food soil. **DO NOT** use harsh detergents or abrasive cleansers.

To remove scale platter for cleaning, grasp tray on left side and lift toward right.

To remove the printer service door for cleaning — lift open the door, press down on the latch spring tab, slide the door forward and lift up. Reverse this procedure to replace the door.

WARNING: BEFORE USING F.D. CLEANER ALL FOOD PRODUCTS AND PACKAGING MATERIALS MUST BE REMOVED FROM THE AREA OR CAREFULLY PROTECTED. ALSO ALL ODOR OF THE CLEANER MUST DISSIPATE BEFORE FOOD PRODUCTS OR PACKAGING MATERIALS ARE EXPOSED.

To remove adhesive from rollers, soak a cotton swab in FD Cleaner and wipe rollers clean.

Wash the Keyboard overlay by gently wiping with a lint free cloth or pad moistened with a neutral pH solution of non-abrasive detergent and water.

CHANGING LABEL ROLL

When the label supply is depleted, **OUT OF LABELS** will be displayed by the system. To replace the label roll, lift the printer cover, turn off the main power switch, and follow the instructions inside the printer cover.

There are three switches inside the printer housing. Pressing the push button Index switch will cause the next label to be dispensed. The Label/Listing Paper switch must be set on the appropriate setting for either Label Stock or Listing Paper. The Main Power switch turns the electric power to the unit ON or OFF.

TROUBLESHOOTING

ERROR MESSAGES

This section contains explanations of error messages which are displayed when operator attention is required.

DEL ALL FILES—	This indicates that the battery (which supplies power for the scale's memory when turned off) has nearly been exhausted and, as a result, the integrity of the memory is questionable. The memory can either be retained (for supervisor's review) by touching Clear , or deleted by touching Enter/Hold , at which time the entire file will have to be reloaded.
INVALID CHAR —	The printer has received an invalid print character for a given field (e.g. a letter where a number should be or vice versa). The item record should be examined by the supervisor for accuracy.
NO RECORD —	The PLU code which was entered is not in the file. Check and re-enter number.
OUT OF LABELS —	The label stock is depleted. Replace label roll and continue operation.
PRINTER ERROR —	If label stock is not depleted touch Clear and try printing again. If message reappears, turn the Main Power switch off and back on and try printing again. If message persists, first contact your Supervisor. Your Supervisor will determine whether your local Hobart Service Office should be called.
SCALE WARMUP —	Scale components are warming up for operation. If dashes appear in the weight display, clear the scale platter or install the platter properly and power up again. The scale should read zero in the weight display within seconds indicating that you are ready to weigh.
WRONG PAPER —	This indicates that the selector switch inside the printer housing is set for the wrong type of Label or Listing Paper being used or that labels are out of position. 1) Open the printer housing cover and check the type of Label/Listing Paper being used and make sure it matches the setting on the selector switch. 2) Check to see that the labels are in the correct position. 3) Depress the push button index switch to determine if the labels will advance properly. If these suggestions do not correct the problem, contact your Supervisor.
LABEL NOT TAKEN —	A label is still positioned in the label ejection slot waiting to be used on a package. Remove the label before again attempting to print a label.

- If dashes appear in the TOTAL PRICE display, the price is over capacity.
- If dashes appear in the TARE WEIGHT display, a tare weight will have to be entered before proceeding with operation. If a tare weight has already been entered, dashes indicate that it is over capacity.
- If dashes appear in the WEIGHT display and the prompt SCALE WARMUP is not displayed, the weight on the scale platter exceeds scale capacity.

GLOSSARY

By Count — Pricing of items such as 3 items for \$1.19.

Exception Price — The special pricing of individual items when there is a By Count price. For example say the By Count price is 3 items for \$1.00 and the Exception Price is \$.39. One item will be priced \$.39, two items will be priced \$.78, while three items will be priced \$1.00 instead of \$1.17.

Forced Price — When 0.00 is the Price in the item record, the operator is forced to enter the Price at the keyboard when that PLU is called up.

Forced Tare — When the Tare field is blank in the item record, the operator is forced to enter the Tare at the keyboard when that PLU is called up.

Fractional Pricing — Pricing of items by the $\frac{1}{4}$ pound means that 4 ounces (or $\frac{1}{4}$ lb.) costs that price. Pricing of items by the $\frac{1}{2}$ pound means 8 ounces (or $\frac{1}{2}$ lb.) costs that price. For example, an item with $\frac{1}{4}$ # priced at \$1.00, is proportional to \$4.00/lb. This is a feature of Model 1871F, not 1871M.

Item File — A series of item records stored in the scale's memory.

Item Record — The information about each item that is stored in the scale's memory.

lbs. for — Pricing of multiple pounds for a single price such as 4 pounds for \$1.28. Any weight would be priced proportionately - for example 1.25 pounds would cost \$.40. This is a feature of Model 1871M, not 1871F.

Loaded — Entered into the scale's memory.

PLU Code — This is the number assigned to each item which is used to look up all information for labeling.

Prompt — A displayed instruction or message from the scale.

Speed Key — The thirty-three keys on the keyboard, each of which accesses a particular product code.

Tare — Weight of packaging material (tray, film, soaker pad, etc.) for which the customer does not pay.

UPC (Universal Product Code) — The bar code symbol which can be scanned at the check-out counter.

Value Only Label — This label is produced when a By Count PLU has the By Count Quantity set to 1.

