Phase 8 Microprocessor User's Manual

Maytag
Benton Harbor, MI
1-800-662-3587

Part No. 113402-6

Retain This Manual In A Safe Place For Future Reference

Please read this manual carefully to thoroughly familiarize yourself with the Phase 8 microprocessor controller (computer) system features, operational instructions, and programming characteristics. This manual contains important information on how to employ all the features of your new dryer in the safest and most economical way.

This product embodies advanced concepts in engineering, design, and safety. If this product is properly maintained, it will provide many years of safe, efficient, and trouble-free operation.

We have tried to make this manual as complete as possible and hope you will find it useful. Maytag reserves the right to make changes from time to time, without notice or obligation, in prices, specifications, colors, and material, and to change or discontinue models.

"IMPORTANT NOTE TO PURCHASER"

Information must be obtained from your local gas supplier on the instructions to be followed if the user smells gas. These instructions must be posted in a prominent location near the dryer.

State of California Proposition 65 Warnings:

WARNING: This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

In the State of Massachusetts, the following installation instructions apply:

- Installations and repairs must be performed by a qualified or licensed contractor, plumber, or gasfitter qualified or licensed by the State of Massachusetts.
- If using a ball valve, it shall be a T-handle type.
- A flexible gas connector, when used, must not exceed 3 feet.

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NOTES _____

Important

Read all instructions before operating!

General User Information Coin Models

Cold Start (Initial/First Use)

Appliance is programmed at the factory as follows:

Dryer
6 min. dry time/quarter (coin 1)
$.25 dry price

Warm Start (After Power Failure)

A few seconds after power is restored, if a cycle was in progress at the time of the power failure, the display will prompt “Select Cycle to Restart”. This is to indicate the need for a fabric setting keypad to be pressed to restart dryer.

Pricing

After the door is opened following the completion of a cycle, the display indicates the cycle price (unless set for free operation). As coins or debit inputs arrive, the display will change to lead the user through the initiation of a cycle.

There are 3 types of pricing:

Fixed Cycle

A dryer set up for “Fixed Cycle” operation can only accept additional time accumulated by increments equal to the cycle price.

Top Off

A dryer set to offer “Top Off” capability will allow time to be added to an existing dry cycle in increments equal to the number of minutes of dry time per quarter (coin 1), up to 99 minutes, regardless of the cost required to start the machine. When the cycle price is not the same as the denomination of coin 1, credit in escrow will be applied at a maximum of the cycle price per key press. When the cycle price is equal to coin 1, all credit in escrow will be applied with a single key press (Accumulator Mode).

Note

A maximum of 99 minutes may be purchased; no additional credit is given when 99 minutes is in the display.

Free Cycles

This is established by setting the cycle price to zero. When this happens “SELECT CYCLE” will appear rather than a cycle price. When the cycle price is set to zero, only one cycle time is allowed to run. Multiple key presses will not add time and a free cycle will automatically terminate when the door is opened.

General User Information Non-Coin Models

Cold Start (Initial/First Use)

This appliance has 20 preset cycles, which are ready for use. To start the unit use the UP and DOWN ARROW keys to scroll through the preset cycles, until the desired cycle is highlighted, then press the START key. You can find a detailed description of the preset cycles in the chart on page 14. While a cycle is running you can press the STOP button once to pause the cycle or twice to clear it completely.

Hot Keys

Display Reason S.A.F.E. is Disabled

While machine is idle displaying “SELECT TEMPERATURE” or “S.A.F.E. DISABLED ... SELECT TEMPERATURE” press the STOP and START keys simultaneously.

Clear Current Drying Cycle

While machine is idle displaying “SELECT TEMPERATURE TO RESTART OR PRESS PAUSE TO CLEAR CYCLE”. Press the PAUSE key and the cycle will be terminated.

Clear Fault Message

While machine is displaying any fault message press and hold the PAUSE key for 3-seconds.

Control Setup Procedure

Important

Read all instructions before operating.

The fabric setting key pads along with the digital display are used to setup the dryer controls.

How to use the Keypads to Program the Controls

Coin Operated Models

The WHITES & COLORS keypad is used to increment numbers and scan through menu locations.

The PERMANENT PRESS keypad will enter program locations and save changes made.

The DELICATES keypad is used to decrement numbers and scan through menu locations.

To back out of a program location hold the DELICATES button and then press the PERM PRESS button.

Non-Coin Controllers

The UP ARROW is used to increment numbers and scan through menu locations.

The DOWN ARROW is used to decrement numbers and scan through menu locations.

The START key/ENTER key will enter program locations and save changes made.

To back out of a menu location hit the STOP key/PAUSE key.

Start Operating Setup

Caution

The service access panel must not be opened unless power is first disconnected from the dryer.

Before proceeding it is worth noting that, despite all the options available, an owner can simply choose to uncrate a new commercial machine, hook it up, plug it in and have a unit which operates.

Note

On stacked dryers programming selections apply to both dryers.

Entering and Exiting Service Mode

Entering

Transition the service switch to enter the service mode on coin models. Enter the service mode by holding down the STOP and UP ARROW key on non-coin models. Service mode can also be accessed via Maytag data acquisition (DA) communications. Please note that only the "vending parameters, count settings, and clock settings" will be available with this method.

Exiting

First make sure the perm press key has been depressed to save any changes that have been made and then transition the service switch on coin models. On non-coin models, exit by pressing the STOP key.

NOTES

Machine Info

Money
Reg Cycle
Spec Cycle
SN#
Software Rev

Program Setup

Control Settings

Language (English, French, Spanish)
Temp Scale (F, C)
Currency Symbol (U.S.D., No Symbol, No Decimal)
Top Back Light (0-200)
Bottom Back Light (0-200)

Machine Settings

Lint Cleaning Frequency (0-3 Hours)
Axial Max Temp (100-180 F / 38-82 C)

Whites & Colors

Dry Temp (100-160 F / 38-71 C)
Cool Time (0-9 Minutes)

Perm Press

Dry Temp (100-160 F / 38-71 C)
Cool Time (0-9 Minutes)

KEY FUNCTIONS

DELICATE
Scroll down/decrease value

WHITES AND COLORS
Scroll up/increase value

PERMANENT PRESS
Accept selection

Hold DELICATES, then press PERMANENT PRESS to back out of a location.

Delicates

Dry Temp (100-160 F / 38-71 C)
Cool Time (0-9 Minutes)

Vending Options

Reg Cycle Time (1-99 Min)
Reg Cycle Price (0-9.95)
Special Pricing (Off / On)
Spec Cycle Time (1-99 Min)
Spec Cycle Price (0-9.95)
Vending Mode (Top Off / Fixed Cycle)
Coin 1 (0.5 - 9.95)
Coin 2 (0.5 - 9.95)
Add Coins Mode (Off / On)
Price Suppress (Off / On)
Payment Mode (Coin & Debit / Coin / Debit / Enhanced Debit)
Clear Escrow (Off / On)
Penny Increment (0-4)

Count Settings

Cycle Count Opt (Off / Non Resettable)
Cycle Count (Reg Cycle / Special Cycle)
Money Count Opt (Off / Non Resettable)
Money Count (Vault / Reset)
Vault Viewing (Off / On)

Clock Settings

Current Hours (0-23)
Current Minutes (0-59)
Current Day (Sunday-Saturday)
View Clock (Time / Day)
Special Start (0-23)
Special Stop (0-23)
Special Day (Sunday-Saturday)

Diagnostic Mode

Fault Recording
Diagnostic Cycle
Help Mode
Factory Settings

Machine Info

Hours
Serial #
Software Rev

Program Setup

Control Settings

Language (Language 1, Language 2)
Temp Scale (F, C)
Buzzer Settings (End of Cycle, Beep Count)
Dry Mode (Coin, Free, OPL)
Top Back Light (0-200)
Bottom Back Light (0-200)
Auto Cycle Timeout (0-99)

Machine Settings

Model
Rotation Sensor (OFF / ON)
Lint Cleaning Frequency (0-3 Hours)
Axial Max Temp (100-180 F / 38-82 C)
Burner Setup (One / Two)

KEY FUNCTIONS

DOWN ARROW
Scroll down/decrease value

UP ARROW
Scroll up/increase value

ENTER KEY
Accept selection

Press STOP key to back out of a location.

Diagnostic Mode

Fault Recording
Diagnostic Cycle
Help Menu
Factory Settings

Programming Selections

MAIN MENU

When service mode is first entered, the control will enter the SERVICE MODE main menu. This main menu will serve as the gateway to all of the service mode features. The features include MACHINE INFO, PROGRAM SETUP, and DIAGNOSTIC MODE.

Note

If a fault occurs while in normal operation, and the faults were not cleared, then these faults will be displayed in the upper display when the SERVICE SWITCH has been transitioned. Pressing the PERM PRESS key will enable the user to enter into service mode.

SERVICE MODE
1: MACHINE INFO
2: PROGRAM SETUP
3: DIAGNOSTIC MODE

The WHITE & COLORS/ UP ARROW and the DELICATES/ DOWN ARROW keys will enable the user to scroll through all the menu items.

Each menu in service mode will contain a list of selectable items. The use of the WHITE & COLORS / UP ARROW and the DELICATES/ DOWN ARROW keys on the keypad will enable the currently selected item to change. The currently selected menu item will appear with a box around it.

If the menu contains a list of items that will lead to a sub-menu, then the items will be listed in ascending numbered order starting at one (1). Once the item is selected and entered, the controls will go to the sub-menu.

If the menu item does not lead to a sub-menu, the items will only be listed and not numbered. When the item is selected and entered, the selected item will become highlighted.

Some of these items without a sub-menu do contain selectable parameters. These parameters will be viewed to the right of the item. Once the item is highlighted, the parameter can be changed.

1: MACHINE INFORMATION

Machine information will display the MONEY, REGULAR CYCLES, SPECIAL CYCLES, SERIAL NUMBER, and the SOFTWARE REV. All of the items on the MACHINE INFORMATION SCREEN will be read only.

MACHINE INFO

MACHINE INFORMATION	
MONEY:	**XX.XX**
REG CYCLES:	**XXXXXX**
SPEC CYCLES:	**XXXXXX**
SERIAL NUMBER:	**123456**
SOFTWARE REV:	**105**

Actual listing will be as follows:

MONEY:	XX.XX	Money Amount of coin accumulated since last cleared.
REG CYCLES:	XXXXXX	Regular cycles Total amount of regular cycle run.
SPEC CYCLES:	XXXXXX	Special cycles Total amount of special cycles run.
SERIAL NUMBER:	XXXXXX	Serial number The 6 digit serial number entered by the factory.
SOFTWARE REV:	XXX	Software revision The software revision loaded on the control board.

Note

If money count option is off, the MONEY location will have a value of 0. Similarly, if cycle count is off, the REG CYCLES and SPEC CYCLES locations will have a value of 0.

2: COIN MODEL PROGRAM SETUP

While the control is displaying *"SERVICE MODE"* and PROGRAM SETUP is highlighted, press the **PERM PRESS** key to enter this menu.

Note

All default settings are illustrated in underlined bold italics.

1: CONTROL SETTINGS

CONTROL SETTINGS
1: LANGUAGE
2: TEMP SCALE
3: CURRENCY SYMBOL
4: TOP BACKLIGHT
5: BOTTOM BACKLIGHT

1: LANGUAGE (Only English is currently available)
ENGLISH
FRENCH
SPANISH

2: TEMP SCALE – will display temperatures as degrees Fahrenheit or Celsius.
° F */ ° C*

3: CURRENCY SYMBOL – changes type of symbol displayed with amounts of money displayed.
US DOLLAR ($)
NO SYMBOL
NO SYMBOL OR DECIMAL

4: TOP BACKLIGHT – adjusts brightness of top display.
0 (adjustable from 0 to 200 where 0 = brightest and 200 is dimmest)

5: BOTTOM BACKLIGHT – adjusts brightness of bottom display.
0 (adjustable from 0 to 200 where 0 = brightest and 200 is dimmest)

2: MACHINE SETTINGS

1: LINT CLEAN FREQ. – adjusts time between prompts to clean lint.
2 (adjustable between 0-3 hours)

Note

When the lint frequency is set to 0, the request to clean lint will occur at the end of each cycle run.

2: AXIAL MAX TEMP – adjusts axial probes set temperature
180 (adjustable between 100-180° F / 38-82° C)

3: WHITES & COLORS

1: DRY TEMP
160 (100 – 160° F / 38 – 71° C)

2: COOL TIME
2 (0 – 9 minutes)

4: PERM PRESS

1: DRY TEMP
130 (100 – 160° F / 38 – 71° C)

2: COOL TIME
2 (0 – 9 minutes)

5: DELICATES

1: DRY TEMP
120 (100 – 160°F / 38 – 71° C)

2: COOL TIME
2 (0 – 9 minutes)

6: VENDING OPTIONS

1: REG. CYCLE TIME – adjusts number of minutes per regular cycle price.
6 (1 – 99 minutes)

2: REG. CYCLE PRICE – adjusts the amount required to start a cycle.
.25 (0.00 – 9.95) this number will increment in 5 cent intervals.

Note

When the cycle price is set to 0, only one (1) cycle time is allowed to run. Multiple key presses will not add time and main door will clear all remaining time.

3: SPECIAL PRICING
OFF */ ON*

4: SPECIAL CYCLE TIME – adjusts number of minutes per special cycle price.
6 (1-99 minutes)

5: SPECIAL CYCLE PRICE – adjusts the amount required to start a cycle for special cycles.
.25 (0.00 – 9.95) this number will increment in 5 cent intervals.

Note

When the cycle price is set to 0, only one (1) cycle time is allowed to run. Multiple key presses will not add time and opening main door will clear all remaining time.

6: VENDING MODE – refer to general user information for explanation.
TOP OFF */ FIXED CYCLE*

7: COIN 1 – adjusts the numerical value of coin input 1.
.25 (0.00 – 9.95) this number will increment in 5 cent intervals.

8: COIN 2 / TOP OFF – adjusts the numerical value of coin input 2 unless computer is set to enhanced debit, then the number will be the top off amount.
1.00 (0.00 – 9.95) this number will increment in 5 cent intervals.

9: ADD COINS MODE – when ON is selected, display will view number of coins required rather than their numerical value.
OFF */ ON*

10: PRICE SUPPRESS – when ON is selected, display will show “available” or “add” rather than the numerical value of the money to be added.
OFF */ ON*

11: PAYMENT MODE
COIN AND DEBIT
COIN ONLY
DEBIT ONLY
ENHANCED DEBIT

Note

When a Gen 2 debit card system is connected to the control, this option will automatically change to ENHANCED DEBIT.

12: CLEAR ESCROW – when ON, money will be held in escrow for 30 minutes and without further escrow or cycle activity will be cleared.
OFF / ***ON***

13: PENNY INCREMENT
0 (0 – 4)

This menu item will only be available if the payment mode is set for debit card systems.

7: COUNT SETTINGS

1: CYCLE COUNT OPT
OFF
NON RESETTABLE

Once this item is turned to NON RESETTABLE, it can not be shut off!

2: CYCLE COUNT
REGULAR CYCLES -XXXXXX
SPEC CYCLES -XXXXXX

3: MONEY COUNT OPT
OFF
ON
NON RESETTABLE

Once this item is turned to NON RESETTABLE, it can not be turned on or shut off!

4: MONEY COUNT
VAULT XXXXXX
(If money count option is off, this value will equal 0)
RESET
NO */ YES*

5: VAULT VIEWING
OFF */ ON*

8: CLOCK SETTINGS

1: CURRENT HOUR
00 *– 23 (Hour)* (After the time is set, the RAM setting will be used as default)

2: CURRENT MINUTES
00 *– 59 (Minute)* (After the time is set, the RAM setting will be used as default)

3: CURRENT DAY
SUNDAY (After the day is set, the RAM setting will be used as default)
MONDAY
TUESDAY
WEDNESDAY
THURSDAY
FRIDAY
SATURDAY

4: VIEW CLOCK
HOUR: MINUTES: SECONDS (In Military Time)
CURRENT DAY

Note

Time setting will not progress when power is disconnected. The time clock will continue running, only if optional battery is connected.

5: SPECIAL START
00 *– 23 (Hour)*

6: SPECIAL STOP
00 *– 23 (Hour)*

7: SPECIAL DAY
Once a special day has been turned on, that day will now be highlighted once this menu is viewed.
1: SUNDAY
OFF */ ON*

2: MONDAY
OFF */ ON*

3: TUESDAY
OFF */ ON*

4: WEDNESDAY
OFF */ ON*

5: THURSDAY
OFF */ ON*

6: FRIDAY
OFF */ ON*

7: SATURDAY
OFF */ ON*

3: NON-COIN MODEL PROGRAM SETUP

1: CONTROL SETTINGS

1: LANGUAGE
1: LANGUAGE 1
ENGLISH
FRENCH
ITALIAN
SPANISH
DUTCH
JAPANESE

2: LANGUAGE 2
NONE
ENGLISH
FRENCH
ITALIAN
SPANISH
DUTCH
JAPANESE

2: TEMP SCALE
° F / ° C

3: BUZZER SETTINGS
1. END OF CYCLE
OFF */* ***ON***

2. BEEP COUNT
5 (adjustable between 1-10 beeps)

4: DRY MODE
COIN DRY MODE
FREE DRY MODE
OPL DRY MODE

5: TOP BACKLIGHT
0 (adjustable from 0 to 200 where 0 = brightest and 200 is dimmest)

6: BOTTOM BACKLIGHT
0 (adjustable from 0 to 200 where 0 = brightest and 200 is dimmest)

7: AUTO CYCLE TIMEOUT
99 (adjustable from 0 to 99 minutes)

2: MACHINE SETTINGS

1: MODEL
GAS NON-REV
ELECTRIC NON-REV
STEAM OR OIL NON-REV
GAS REV
ELECTRIC REV
STEAM OR OIL REV

2: ROTATION SENSOR
OFF / ***ON***

3: LINT CLEAN FREQ
3 (adjustable between 0-3 hours, 0 being off)

4: AXIAL MAX TEMP
180 (adjustable between 100-180° F)

5: BURNER SETUP
ONE BURNER */ TWO BURNERS*
(This menu item will not be available for stack units)

4: DIAGNOSTIC MENU

1: FAULT RECORDING

UPPER DRYER FAULTS
When a fault is recorded on the top pocket, it can be viewed in this location. If no fault(s) has been recorded, then *"NO UPPER FAULTS"* will be displayed.

1: TT=#:## CODE = (Description of fault)

2: TT=#:## CODE = (Description of fault)

3: TT=#:## CODE = (Description of fault)

4: TT=#:## CODE = (Description of fault)

5: TT=#:## CODE = (Description of fault)

Note
TT = Two minute Ticker Count.

LOWER DRYER FAULTS
When a fault is recorded on the bottom pocket, it can be viewed in this location. If no fault(s) has been recorded, then *"NO LOWER FAULTS"* will be displayed.

1: TT=#:## CODE = (Description of fault)

2: TT=#:## CODE = (Description of fault)

3: TT=#:## CODE = (Description of fault)

4: TT=#:## CODE = (Description of fault)

5: TT=#:## CODE = (Description of fault)

Note
TT = Two minute Ticker Count.

NOTES

EVENTS

E1:XX
E2:XX
E3:XX
E4:XX
E5:XX
E6:XX
E7:XX
E8:XX
E9:XX
EA:XX
EB:XX
EC:XX
ED:XX
RESET

This will reset all of the event counts to 0.

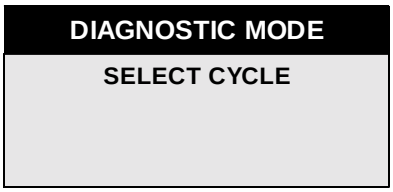
All CODES starting with an “E” represents an event. An event failure is one that would still allow the dryer to run in a safe condition. The numeric value after “E” will represent which of the eight event failures occurred. The two (2) digit number after this indicates the amount of times that event failure occurred. The eight (8) event code failures are listed in table 3.

FAILURE I.D.	FAILURE DESCRIPTION
E1	Top Radiant Sensor fault count
E2	Top Burner Ignition fault count
E3	Top Exhaust High Limit
E4	Bottom Radiant sensor fault count
E5	Bottom Burner ignition fault count
E6	Bot Exhaust High Limit
E7	Coin 1 Bad Coin count
E8	Coin 2 Bad Coin Count

Diagnostic Cycle

Diagnostic mode enables the user to run the dryer(s) and access items to troubleshoot a problem with the dryer.

When the diagnostic menu is first selected, the controls will prompt the user to start a cycle as seen below. This prompt will be seen on both displays.



Note

Once a cycle is selected, the control will clear the fault condition so that dryer can be started. This will also clear all credit in escrow and any cycle time remaining on both pockets.

When the dryer is still in an idle state, one of the three cycles must be selected. Once a cycle is selected on one of the pockets, that pocket will enter into running mode. The time of the selected cycle will be equal to the value entered as the “regular cycle time” under “vending parameters”. The cycle’s temperature will correspond to the selected cycle’s parameter settings under SETUP mode.

Once a cycle has been selected the temperature keys will now enable the user to access different features.

- Pressing the “WHITES & COLORS” key will add time to current running cycle. (1 minute at a time)
- Pressing the “PERM PRESS” key will pause the current running cycle.
- Pressing the “DELICATES” key will access the HELP MENU.

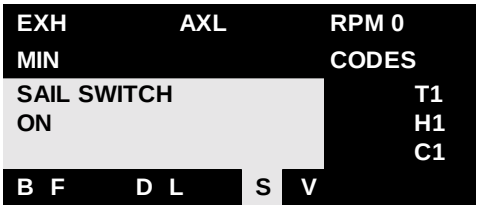
Note

If the service switch is toggled while a diagnostic cycle is running and no diagnostic codes are being reported, the current diagnostic cycle will continue to run in the normal Customer Mode.

When a cycle is running, the control will display DIAGNOSTIC MODE at the top of the display.

If a fault occurs during diagnostic mode, the control will enter into a fault cool down and the occurring fault will be displayed. The fault can be cleared by reentering the diagnostic cycle.

The help menu allows the user to view the status of different parts of the dryer. When a feature is highlighted, the center section will list that feature and its current status. The items in the help menu will refer to the current running cycle that was selected in diagnostic mode.



Pressing the WHITES & COLORS key will allow the user to move the highlighted bar around the help menu screen. The screen shot above shows “S” highlighted. Highlighting “S” will show the status of the sail switch.

Pressing the DELICATES key will return the controls to diagnostic mode.

The table below shows the standard features available and the symbol they correlate with.

FEATURE SYMBOL	FEATURE TEXT (1st line of 2nd section)	FEATURE	FEATURE INFORMATION (2nd line of 2nd section)
B	BLOWER	Fan output	ON - OFF
F	FORWARD	Forward drive output	ON - OFF
D	DOOR	Main Door	OPEN - CLOSED
L	LINT	Lint Door	OPEN - CLOSED
AXL	AXIAL TEMP PROBE	Axial Thermistor Probe	In Deg. ºF or ºC
CODE	HELP CODE MENU	Help Menu Code	Ref. 6.2.3
RPM	TUMBLER ROTATION SPEED	Tumbler Speed in Revolutions Per Minute	Revolutions per Minute
EXH	EXHAUST TEMP PROBE	Exhaust Temperature Probe	In Deg. ºF or ºC
S	SAIL SWITCH	Sail Switch	OPEN - CLOSED
T1	THERMOSTAT BURNER 1	Thermostat (Heat Output Burner 1)	ON - OFF
H1	HEAT RETURN BURNER 1	Heat Return Burner 1	ON - OFF
C1	HEAT RELAY 1 CONTACTS	Heat relay 1 contacts	OPEN - CLOSED
V	VAULT SWITCH	Vault Switch	OPEN - CLOSED

If the help menu feature “CODE” is selected, the center section will present “help codes”, and “events”. All of the items in the code menu will automatically scroll up and continue to scroll until WHITES & COLORS is pressed to select a new help menu feature.

All CODES starting with an “H” represent some condition that could interfere with the proper functioning of the dryer. This would include communications problems between the controls board and a debit card reader. There could be up to 3 “H” codes listed within the HELP MENU.

- H1 represents the last failure recorded.
- H2 represents the second to last failure recorded.
- H3 represents the third to last failure recorded.

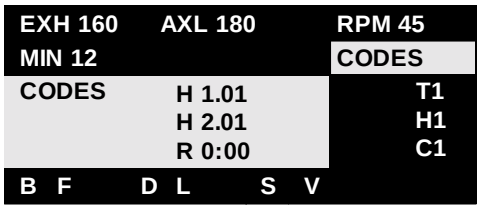
Each help code will be followed by a two (2) digit code. This (2) digit code will reflect a particular issue.

HELP CODE	CODE DESCRIPTION
.71	Card balance message received from Gen 2 card reader at improper time.
.74	Remaining balance message received from Gen 2 card reader at improper time.
.75	Cycle selected polling message received from Gen 2 card reader at improper time.
81	Lower Exhaust Probe Fault
86	Upper Exhaust Probe Fault
87	Upper Axial Probe Fault
82	Lower Axial Probe Fault
89	Upper Sail Switch Open Fault
88	Upper Sail Switch Closed Fault
84	Lower Sail Switch Open Fault
83	Lower Sail Switch Closed Fault

Pressing the DELICATES key will return the controls to diagnostic mode.

Codes can be cleared by pressing PERM PRESS while “codes” are selected or by selecting Reset Under Events - Fault Recording.

Screen Layout



If a fault occurs while in help mode, the fault will be displayed as a Help Code or event code.

- Pressing DELICATES will return you to the HELP MODE screen.
- Pressing and holding DELICATES and PERM PRESS for 3 or more seconds will clear the fault and return you to the Diagnostic Cycle start up screen.

The last item listed in the code menu will identify the revision of the software that is being used on the control board.

Faults

(D17 Upper) (D6 Lower) Exhaust Probe

An exhaust probe fault occurs when the control detects that the exhaust temperature transducer is reading a temperature that is out of the probe’s normal operating temperature range for more than 3-seconds. If the probe fault occurs in a drying cycle the control will enter the fault cool down mode and will run for the full 3 minutes of fault cool down; the control will not be able to shut down based on temperature. Fault cool down can be exited if the fault is manually cleared by entering the diagnostic cycle for more than 3-seconds. There is an automatic fault clearing feature for this fault. If the fault condition no longer exists, the control will clear the fault condition and return to READY mode.

(D18 Upper) (D2 Lower) Axial Probe

An axial thermistor probe fault occurs when the control detects that the axial thermistor is reading a temperature that is out of the probe’s normal operating temperature range for more than 3-seconds, usually an open or shorted probe condition. If the probe fault occurs in a drying cycle the control will enter the fault cool down mode and will run for the full 3 minutes of fault cool down, the control will not be able to shut down based on temperature. Fault cool down can be exited if the fault is manually cleared by entering the diagnostic cycle. There is an automatic fault clearing feature for this fault. If the fault condition no longer exists, the control will clear the fault condition and return to READY mode.

(D21 Upper) (D7 Lower) Sail Switch Closed

A sail switch closed fault occurs when a cycle is starting up from either READY mode, PAUSE mode or any other idle state. Once a temperature/cycle is selected the control will start the time and verify the sail switch is open, if it is not, the control will display on the screen that the control is “STARTING” and will not turn on the FAN, DRIVE or HEAT. The control will allow the sail switch 30-seconds to open before the control faults out with a SAIL SWITCH CLOSED FAULT. Once a SAIL SWITCH CLOSED FAULT is detected the control will log the fault and will not allow the cycle to continue. The control will display “SAIL SWITCH CLOSED FAULT, SELECT TEMP TO RESTART, when the fault is detected.

(D20 Upper) (D4 Lower) Sail Switch Open

A sail switch open fault occurs when a cycle is starting from either READY mode, PAUSE mode or any other idle state. If the sail switch does not close within the allotted 10-seconds the control will log the fault and will not allow the cycle to continue. The control will display “SAIL SWITCH OPEN FAULT, CHECK MAIN DOOR AND LINT ACCESS AND SELECT TEMP TO RESTART.” A sail switch open fault can also occur once a cycle is in process. If the control detects that the sail switch has opened, the heat will immediately turn off and if the sail switch fails to close within the allotted 30-seconds, the control will fault and display “SAIL SWITCH OPEN FAULT, CHECK MAIN DOOR AND LINT ACCESS AND SELECT TEMP TO RESTART.”

(D22 Upper) (D8 Lower) Latched Heat Relay

A latched heat relay fault occurs when the control detects that the heat relay contacts are closed when the heat output should be off. In the event the control detects that the relay is closed and the heat signal should be off, the control will immediately shut down and will open the interposing relay.

(D23 Upper) (D15 Lower) Burner Return Voltage

A burner return voltage fault occurs when the control detects that the burner return signal is active but the heat relay contacts are open and the heat output should be off. In the event the control detects that the signal is active and the heat signal should be off, the control will immediately shut down and will open the interposing relay.

(D14 Upper) (D12 Lower) Rotation Sensor Fault

A rotation sensor fault occurs when the control is in a cycle and does not detect any rotation sensor pulses in more than 10-seconds. At which point the control will enter fault cool down mode where the fan will remain active for 3 minutes or the exhaust probe temp is below 100° F.

(D19 Upper) (D3 Lower) Exhaust High Temp Fault

An exhaust high temperature fault occurs when the exhaust probe is detecting a tumbler temperature that is 20° F above the max dryer temperature set point for more than 10-seconds. At which point the control will enter fault cool down mode until the exhaust temperature probe reads less than 100° F or the dryer has been in fault cool down for more than 3 minutes.

(D5 Coin 1) (D13 Coin 2) Blocked Coin Drop

This diagnostic code occurs if the control senses a blockage in the coin input. If the coin input is blocked for more than 8-seconds the control will go to out of order and will not allow the control to start a cycle. This fault has both automatic and manual fault clearing. If the condition is corrected the control will recover from out of order immediately after the blockage is no longer seen.

D16 – Gen 2 Card Reader Did Not Communicate In Previous 5 Minutes

This fault occurs when the control has lost communication with the Debit Card reader. When this fault occurs the control will log the fault and will display D16 on the display instead of the cycle price information.

Events

(E1 Upper) (E4 Lower) Radiant Sensor Fault Count

A radiant sensor fault count will occur when a gas model dryer attempts to turn on the burner system and never receives a 120V return signal on the gas return signal within a predefined time. This is considered an event and a counter will keep track of how many times this fault condition is occurring.

(E2 Upper) (E5 Lower) Burner Ignition Fault Count

A burner ignition fault count will occur when a gas model dryer attempts to turn on the burner system and receives a 120V on the burner return signal but it does not transition to a 0V return signal within a predefined time.

(E3 Upper) (E6 Lower) Exhaust High Limit

This location is a count of the times that the exhaust high limit has been sensed in the open position.

(E7 Coin 1) (E8 Coin 2) Bad Coin Count

This location is a count of all the bad coin occurrences that were detected from the coin input.

Editing Non-Coin Cycles

Choosing Cycle to Edit

At the READY message, use the “UP” and “DOWN” arrow keys to select the cycle type that you would like to edit.

Once the desired cycle is chosen, press and hold the “ENTER” for 3-seconds. This menu will also allow the user to view and edit each particular item’s settings. Using the UP and DOWN arrow keys will allow the user to scan through each parameter. Pressing “ENTER” while the parameter is boxed, will allow the user to adjust the parameter.

Note

A cycle can only be edited if the controller is in the “READY” state, no fault condition may exist, and all doors need to be closed.

The following are the default cycle descriptions:

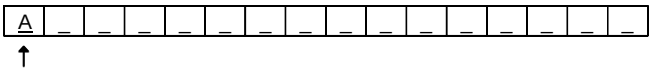
Cycle	Name	Cycle Type Auto / Manual	Dryness			Cool Down Manual Only		Reversing		
			Time Manual Only	Level Auto Only	Temp 100º-160º F 38º-71º C	Time 0-99 min.	Temp 70º-100º F 21º-38º C	Mode Off / On	Spin 120-240 sec.	Stop 5-10 sec.
1	DENIM	AUTO	50	DRY	160º F / 71º C	4	100º F / 38º C	ON	240	5
2	HEAVY	AUTO	50	DRY	155º F / 68º C	4	100º F / 38º C	OFF	240	5
3	TOWELS	AUTO	40	XDRY	155º F / 68º C	2	100º F / 38º C	ON	240	5
4	HAND TOWELS	AUTO	40	DRY	155º F / 68º C	2	100º F / 38º C	OFF	240	5
5	WHITES	AUTO	40	XDRY	155º F / 68º C	2	100º F / 38º C	OFF	240	5
6	COLORS	AUTO	40	DRY	145º F / 63º C	2	100º F / 38º C	OFF	240	5
7	SHEETS	AUTO	40	DRY	141º F / 61º C	2	100º F / 38º C	ON	120	5
8	COTTONS	AUTO	40	FIN	140º F / 60º C	2	100º F / 38º C	OFF	240	5
9	DELICATES	AUTO	40	FIN	130º F / 54º C	2	70º F / 21º C	OFF	240	5
10	EXTRA DELICATE	AUTO	40	FIN	100º F / 38º C	2	70º F / 21º C	OFF	240	5
11	WRINKLE REMOVAL	MANUAL	5	DRY	160º F / 71º C	0	70º F / 21º C	OFF	240	5
12	TOUCH UP	MANUAL	15	DRY	155º F / 68º C	2	100º F / 38º C	OFF	240	5
13	CASUAL	MANUAL	40	DRY	150º F / 66º C	2	100º F / 38º C	OFF	240	5
14	DUVET	MANUAL	50	DRY	125º F / 52º C	4	70º F / 21º C	ON	120	5
15	HAND WASH	MANUAL	20	DRY	125º F / 52º C	4	70º F / 21º C	ON	240	5
16	SILK	MANUAL	20	DRY	120º F / 49º C	10	70º F / 21º C	ON	240	5
17	WOOLENS	MANUAL	30	DRY	100º F / 38º C	10	70º F / 21º C	ON	240	5
18	AIR	MANUAL	0	DRY	100º F / 38º C	20	70º F / 21º C	ON	240	5
19	NEW CYCLE 1	MANUAL	30	DRY	150º F / 66º C	4	100º F / 38º C	OFF	240	5
20	NEW CYCLE 2	MANUAL	30	DRY	150º F / 66º C	4	100º F / 38º C	OFF	240	5

Editing Cycle Name

This option will allow the user to rename the cycle that was chosen under the “CYCLE SETTINGS” message. Up to 16 characters are available for each cycle name.

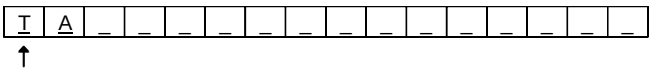
When this option is chosen by pressing ENTER, the display will transition to an edit CYCLE NAME menu. Once ENTER is pressed, the name will change to 16 underlined character spaces. Pressing PAUSE will exit out of the edit cycle name menu and none of the changes will be saved.

Example:



Use the “UP” and “DOWN” arrow keys to scroll through the available characters. The available characters are (A-Z), space, (0-9), and → . Once “ENTER” is pressed, the next character can now be changed.

Example:



Once the last character is entered, choose the → and press ENTER. This will save the new cycle name.

Note

There is no need to enter (spaces) in any of the remaining character spaces. Once the “ENTER” key is pressed, all remaining characters will become spaces.

Editing Dry Settings

This option will allow the user to change a particular cycle’s settings.

Once a dry setting has been chosen, the display will bring the user to that menu items menu selection menu.

CYCLE TYPE
AUTO
MANUAL

CYCLE TIME (Only used if MANUAL cycle type is selected)
0 to 99 (minutes)

DRY LEVEL (Only used if AUTO cycle type is selected)
FIN (FINISHING)
DRY
XDRY

DRY TEMP
100 to 160 F (degrees Fahrenheit)
38 to 71 C (degrees Celsius)

COOL TIME (Only used if MANUAL cycle type is selected)
0 to 99 M (minutes)

COOL DOWN TEMP (Only used if MANUAL cycle type is selected)
70 to 100 F (degrees Fahrenheit)
21 to 38 C (degrees Celsius)

6: REVERSING MODE
*OFF / **ON***

7: REV SPIN TIME
120 to 240 S (seconds)

8: REV STOP TIME
5 to 10 S (seconds)

NOTES