

Section 4:

Service Procedures,

Trouble Shooting, and Schematics

Dryer Trouble Shooting

DRYER ERROR MESSAGES

The O-Series dryer control reacts to various abnormal conditions by displaying an Error message. These messages usually contain the "Error" text, and then a general description of the message. Below is a listing of Error messages separated by each potential displayed message in bold face. Each is followed by:

- Condition that creates the displayed message on the control
- Action that the control takes responding to the condition

• Exit is the method the user (or the control) should use to bring the ma chine back to normal operation.

The actual displayed message on the control may contain the general description listed below and additional details (such as number or additional text). However, the condition, action or exit qualities of the error message should be the same for all variations.

OPERATI	OPERATION IN PROGRESS	
Condition	This error occurs when the user is attempting to start a machine operation while another operation is ending.	
Control Action	When detected, the control does not respond to user input on the buttons. There is no delay in the action once the criteria are met. The control will finish the current operation while displaying "OPERATION IN PROGRESS". Once the operation is complete, the error will no longer be displayed and the control will respond to user input normally.	
Exit	The error will be reset automatically once the current operation is complete.	
Customer Action	Once cycle is ended and the Door is opened and closed you ma select the next cycle.	
POWER L	OSS	
Condition	This error occurs when the Main Control Board detects a total loss of 24VAC power.	
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.	
Exit	The machine will not start and the Error Code will continue to be displayed until the condition is no longer present. Once the condition is removed, the machine still will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error and return the machine to Idle Mode.	
Customer Action	Test incoming Voltage. Make sure on correct Transformer tap. Test step down transformer make sure voltage within range.	

BROWN	OUT
Condition	This error occurs when the Main Control Board detects less then 21VAC at the 24VAC input.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition is no longer present. Once the condition is removed, the machine still will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error and return the machine to Idle Mode.
Customer Action	Test Incoming Power make sure Transfomer is on the correct tap. The controls transformer is located inside the control trough and steps a range of 208 to 240 volts down to 115 volts. There are two terminals on the controls transformer for the primary (incoming) power. Use the terminal marked "208V" for power supplies between 200 and 219 volts. Use the terminal marked "230V" for power supplies between 220 and 240 volts. Inspect Control board, visually inspect Resister R185, (located nest to AC Input connector.) if this resistor appears burnt replace the control board after voltage issue to the machine is corrected.
TEMP SE	NSOR SHORT
Condition	This error occurs when the control detects a short circuit from the temperature sensor.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition is no longer present. Once the condition is removed, the machine still will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error and return the machine to Idle Mode.
Customer Action	Inspect temp probe wires. Ohm test temp probe 10K Ohms at room temp.
TEMP SE	NSOR OPEN
Condition	This error occurs when the control detects an open circuit from the temperature sensor.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition is no longer present. Once the condition is removed, the machine still will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error and return the machine to Idle Mode.
Customer Action	Inspect temp probe wires. Ohm test temp probe 10K Ohms at room temp.
Customer Action	Inspect temp probe wires. Ohm test temp probe 10K Ohms at room temp.

NO HEAT	RISE
Condition	This error occurs when the control detects that the temperature is not increasing.
Control Action	When detected there is a delay of 15 minutes before the error is active. Once active, the control will display the "NO HEAT RISE" prompt, alternating with the normal Cycle Progress screen at a rate of 5 seconds on, 5 seconds off. The heating relay will also be turned off. Otherwise the cycle will continue normally.
Exit	The Error Code will continue to be displayed until the in-progress cycle is stopped and the control is returned to Idle Mode. It will then reset automatically.
Customer Action	Test Safty's, High Limit, air flow switch, and overtemp thermostat.
HEAT RI	SE OUT OF RANGE
Condition	This error occurs when the control detects that the operating temperature is greater than 220 degrees F (or 104 degrees C).
Control Action	When detected, the control will display the "HEAT RISE OUT OF RANGE" prompt, alternating with the normal Cycle Progress screen at a rate of 5 seconds on, 5 seconds off. The heating relay will also be turned off. Otherwise the cycle will continue normally. There is no delay in the action once the criteria are met.
Exit	The Error Code will continue to be displayed until the in-progress cycle is stopped and the control is returned to Idle Mode. It will then reset automatically.
Customer Action	Inspect temp probe and connections. Ohm test temp probe 10K Ohms at room temp.
NO PROX	K SENSOR OUTPUT
Condition	This error occurs when the machine control does not detect output from the prox- imity sensor(s) when the cylinder has been commanded to turn.
Control Action	When detected, there is a short delay before the error is active. When active, the control turns off the motor and the heating relay.
Exit	The machine will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	Inspect gap on sensor. Update firmware to latest rev.
PROX SE	INSOR OUT OF RANGE
Condition	This error occurs when the machine control sees output from the proximity sensor(s) that does not fall in the acceptable range for the particular washer or dryer model running at normal speeds. It also occurs when the machine control sees output from the proximity sensor that implies the tumbler is still turning when the control has commanded it to stop.
Control Action	When detected, there is a short delay before the error is active. When active, the control turns off the motor and the heating relay.
Exit	The machine will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	Inspect gap on sensor. Update firmware to latest rev.

Co	L BOARD
Condition	This error occurs when the Main Control Board cannot command the input and outputs of the control system as required by the cycle programming.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error Code and return the Machine to Idle Mode. If the prompt to Reset is not available, power must be cycled to the ma- chine to reset the error.
Customer Action	
GRAPHI	CS BOARD
Condition	This error occurs when the Graphics Board cannot command the Main Control board as required by the cycle programming.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error Code and return the Machine to Idle Mode. If the prompt to Reset is not available, power must be cycled to the ma- chine to reset the error.
Customer Action	
MODEL J	UMPER MISSING
Condition	This error occurs when there is no connection to Ground (Pin 7) on the Model Jumper Header.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met. The machine control checks for this condition when power is cycled and before starting every machine cycle.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	Inspect and reseat Model Jumper harness at J6. Preform Soft reset holding down both Reset button and Button 1 on the control board. release reset button continue to hold button 1 until display appears.
MODEL J	UMPER CHANGED
Condition	This error occurs when the jumper connections to Ground (Pin 7) on the Model Jumper Header have changed since the last control check.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met. The machine control checks for this condition when power is cycled and before starting every machine cycle.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	If someone has been doing repairs on the washer, check for the correct size drive Inspect and reseat Model Jumper harness at J6. Preform Soft reset holding down both Reset button and Button 1 on the control board. release reset button con- tinue to hold button 1 until display appears.

Condition This error occurs when the jumper connections to Ground (Pin 7) on the Model Jumper Header do not match the VFD size code. Control When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met. The machine control checks for this condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode. Exit The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode. Customer If someone has been doing repairs on the washer, check for the correct size drive Inspect and reseat Model Jumper harness at J6. Preform Soft reset holding down both Reset button and Button 1 on the control board. release reset button continue to hold button 1 until display appears. MODEL JUMPER / DRIVE PARAMETER Condition This error occurs when the jumper connections to Ground (Pin 7) on the Model Jumper Header do not match the VFD parameters being used. Control When detected, the control turns off the motor and the heating relay. There is not delay in the action once the criteria are met. The machine control checks for this condition when power is cycled and before starting every machine cycle. Exit The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode. Customer If VFD replaced varify correct P/N, if control boar	MODEL 1	IUMPER / DRIVE SIZE
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	Exit	the condition no longer exists and the prompt is followed to Reset the Error Code

	VERCURRENT
Condition	This error occurs when the control receives a message that the drive has experi- enced an over current condition.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	Step 1: Check to make sure the Dryer cylinder turns freely by hand. If it turns freely, continue to step 2. If it does not, remove the belt and see if the motor turns freely by hand. If the motor turns freely, then check for obstructions in the cylinder or check the bearings. If the motor does not turn freely, replace the motor. Step 2: Check the motor wires for a short circuit between leads. If there are motor leads that have conductors touching, separate them and insulate them. If the wires are broken, splice them together or replace the motor. Step 3: Check braking resistors to see if they measure the correct resis- tance. If a resistor does not measure the proper value, replace it.
DRIVE G	ROUND FAULT
Condition	This error occurs when the control receives a message that the drive has experi- enced a ground fault condition.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	Inspect Door switch harnesses, replace loading door and lint door switches. In- spect motor harnesses for damage.
DRIVE L	OW VOLTAGE
Condition	This error occurs when the control receives a message that the drive has experi- enced a low voltage condition.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	Measure incoming line voltage at VFD, . Turn the power off to the washer. Check the wiing connections to the drive and motor. If no problem is observed, turn on power to the washer and test. If voltage correct replace VFD

	NTERNAL
Condition	This error occurs when the control receives a message that the drive has experi-
	enced an internal error.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	Turn the power off to the washer. Wait one minute. Turn the power on to the washer. If problem reappears, contact your Dexter representative.
DRIVE E	XCEPTION
Condition	This error occurs when the control receives a message that the drive has logged an exception code.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	
AUTODR	Y OOR LOW
Condition	This error occurs when the machine control sees output from the RMC sensor (secondary) board that is out-of-range at 0V or lower.
Control Action	When detected there is a delay of 5 minutes before the error is active. Once ac- tive, the control will display the "AUTODRY OOR LOW" prompt and the current drying stage will end. The next stage will begin and the error will continue to be displayed alternating with the Cycle Progress screen during the remainder of the stage.
Exit	The Error Code will continue to be displayed until the cycle is stopped and the control is returned to Idle mode.
Customer Action	

Condition	This error occurs the control cannot communicate with the VFD.
Control Ac- tion	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	Inspect Drive code before powering down. Inspect Data communication Cable between Drive and control board. replace Data cable.
DRIVE EN	IABLE
Condition	This error occurs when the control sees a message that the VFD Enable circuit is not closed.
Control Ac- tion	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.
Customer Action	Inspect yellow wires to Drive DCM & MI6
OUT OF S	ERVICE
Condition	This error occurs when the user has designated that the machine control should be made inoperable.
Control Ac- tion	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed the user changes the Out of Service state.
Customer Action	The User will have to go into management Settings to put back in service.
AUTODRY	COMMUNICATION 1
Condition	This error occurs when the machine control does not detect CAN communication from the RMC stationary (primary) board.
Control Ac- tion	When detected, there is a delay of 30 seconds before the error is active. When active, the control will display the "AUTODRY COMMUNICATION 1" prompt and the current drying stage will end. AutoDry Communication Error 1 will alternate on the display for 5 seconds on, then 5 seconds off continuously until the end of the drying cycle which continues as normal. The error occurs within 5 seconds of a CAN communication malfunction. Eventually, if CAN communications are missing for 5 minutes, AutoDry communication Error 2 will be displayed
Exit	The Error Code will continue to be displayed until the cycle is stopped and the control is returned to Idle mode.
Customer Action	Check harness between control and stationary board for dammage, if yes re- place. Check the distance between the RMC stationary and rotating boards to ensure a 3/16" gap between them. Re-syncronise RMC Boards. Next Test for Voltage on CAN connector, Green is ground, Red 12Vdc, Yellow 24Vdc.

AUTODR	AUTODRY COMMUNICATION 2	
Condition	AutoDry Communication Error 2 is caused when there is a fault in the wireless communication between the RMC stationary and rotating board. AutoDry Commu- nication Error 2 can also be caused by a loss of sync between the RMC stationary and rotating boards. See RMC Sync slides for more information. A loss of sync is not typical unless a new RMC stationary or rotating board has been installed.	
Control Action	When the RMC stationary board tries to send/receive communication to/from the rotating board and fails, it will reboot. After 5 minutes of failed attempts of communicating, AutoDry Communication Error 2 is displayed. If the CAN bus is not functioning to allow communication between the RMC stationary board and the control board, then AutoDry Communication Error 2 will appear after AutoDry Communication Error 1 has been displayed.	
Exit	The Error Code will continue to be displayed until the cycle is stopped and the control is returned to Idle mode.	
Customer Action	Inspect harness between control and stationary board for dammage, if yes re- place. Check the distance between the RMC stationary and rotating boards to en- sure a 3/16" gap between them. Re-syncronise RMC Boards. Next Test for Voltage on CAN connector, Green is ground, Red 12Vdc, Yellow 24Vdc.	
AUTODR	Y COMMUNICATION 3	
Condition	AutoDry Communication Error 3 is caused by 5 minutes of faulty data being trans- mitted between the RMC stationary and rotating boards. Data is being transmit- ted, but likely the charging coils in the RMC stationary and rotating boards are too far apart to sufficiently power the RMC rotating board and collect a voltage read- ing from the sensor strip.	
Control Action	When detected, there is a delay of 30 seconds before the error is active. When active, the control will display the "AUTODRY COMMUNICATION 3" prompt and the current drying stage will end. The next stage will begin and the error will continue to be displayed alternating with the Cycle Progress screen during the remainder of the stage.	
Exit	The Error Code will continue to be displayed until the cycle is stopped and the control is returned to Idle mode.	
Customer Action	Check the distance between the RMC stationary and rotating boards to ensure a 3/16" gap between them. See Service Procedures	

Co	This among assume these are available and diving here been detected at the OUD
Condition	This error occurs when an overheat condition has been detected at the OHP sen- sor
Control Action	When detected there is a calculated delay before the error is active. Once active, the control turns off the heating relays, the control buzzer is turned on, and the alarm relay closes. After 5 seconds, tumbler rotation may occur. If the dryer is equipped with a Fire Suppression system, water may be injected into the dryer cylinder.
Exit	The Error Code will continue to be displayed until the condition is no longer pres- ent and the mechanical Reset button is pressed on the Main Control board.
Customer Action	If a true overheat has not occured, Inspect for restricted exhaust Inspect Har- ness connection. Ohm Test Overheat temp probe 10K.
OVERHE	AT SENSOR SHORT
Condition	This error occurs when the control detects a short circuit from the overheat tem- perature sensor.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition is no longer present. Once the condition is removed, the machine still will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error and return the machine to Idle Mode.
Customer Action	Inspect Harness connection. Ohm Test temp probe 10K
OVERHE	AT SENSOR OPEN
Condition	This error occurs when the control detects an open circuit from the overheat temperature sensor.
Control Action	When detected, the control turns off the motor and the heating relay. There is no delay in the action once the criteria are met.
Exit	The machine will not start and the Error Code will continue to be displayed until the condition is no longer present. Once the condition is removed, the machine still will not start and the Error Code will continue to be displayed until the prompt is followed to Reset the Error and return the machine to Idle Mode.
Customer Action	Inspect Harness connection. Ohm Test temp probe 10K

Close Do	Close Door	
Condition	This Error occures when the control detects that either the loading door or the	
	Lint compartment door circurcit is not closed	
Control Action	When detected, the control will not allow the cycle to start. the display "Close Door" will stay present untill the circuit is closed	
Exit	When detected will not start until circuict is closed.	
Customer Action	Inspect Door switched and wiring. Inspect lint door paddle make sure fully en- gauging lint door switch.	
Control	Board Error 11	
Condition	Model jumper not Selected or detected. Relay Board or control board.	
Control Action	Error will display and cycle will stop.	
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.	
Customer Action	Inspect Model Jumper on Relay board (P3) make sure connected and present. Inspect I2C harness between control (Relay Exp.)and relay board (P1). Inspect for 12VO_SW LED make sure iluminated. If not test 12Vdc power supply, (must be 11.4 or above). Inspect harnesses if pinched of damaged (loading door and lint switch).	
Control	Board Error 66	
Condition	Model jumper not Selected or detected. Relay Board or control board.	
Control Action	Error will display and cycle will stop.	
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.	
Customer Action	Inspect Model Jumper on Relay board (P3) make sure connected and present. Inspect I2C harness between control (Relay Exp.)and relay board (P1). Inspect for 12VO_SW LED make sure iluminated. If not test 12Vdc power supply, (must be 11.4 or above). Inspect harnesses if pinched of damaged (loading door and lint switch).	
Control	Board Error 68	
Condition	Model jumper not Selected or detected. Relay Board or control board.	
Control Action	Error will display and cycle will stop.	
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.	
Customer Action	Inspect Model Jumper on Relay board (P3) make sure connected and present. Inspect I2C harness between control (Relay Exp.)and relay board (P1). Inspect for 12VO_SW LED make sure iluminated. If not test 12Vdc power supply, (must be 11.4 or above). Inspect harnesses if pinched of damaged (loading door and lint switch).	
Part # 8533-125-		
ait # 0000-125-		

Control	Control Board Error 82	
Condition	Model jumper not Selected or detected. Relay Board or control board.	
Control Action	Error will display and cycle will stop.	
Exit	The machine will not start and the Error Code will continue to be displayed until the condition no longer exists and the prompt is followed to Reset the Error Code and return the Machine to Idle Mode.	
Customer Action	Inspect Model Jumper on Relay board (P3) make sure connected and present. Inspect I2C harness between control (Relay Exp.)and relay board (P1). Inspect for 12VO_SW LED make sure iluminated. If not test 12Vdc power supply, (must be 11.4 or above). Inspect harnesses if pinched of damaged (loading door and lint switch).	