Profile HA Dryer

Models:

DPVH880EJ0WW DPVH880GJ0WW DPVH880EJ0MG DPVH880GJ0MG DPVH880EJ0MV DPVH880GJ0MV

Please refer any technical questions on this product to: <u>george.schick@ge.com</u>





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GE Consumer & Industrial Training

✓ IMPORTANT SAFETY NOTICE

✓ The information in this presentation is intended for use by individuals possessing adequate backgrounds of electrical, electronic, & mechanical experience. Any attempt to repair a major appliance may result in personal injury & property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

✓ WARNING

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

✓ RECONNECT ALL GROUNDING DEVICES

✓ If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position & properly fastened.

WARRANTY

For The Period Of:	We Will Replace:
One Year From the date of the original purchase	Any part of the dryer which fails due to a defect in materials or workmanship. During this <i>limited one-year warranty</i> , GE will also provide, <i>free of charge</i> , all labor and related service costs to replace the defective part.
Second Year From the date of the original purchase	<i>Any part</i> of the dryer which fails due to a defect in materials or workmanship. During this <i>additional one-year limited warranty</i> , you will be responsible for any labor or related service costs.
Second through Fifth Year From the date of the original purchase	<i>The extra-large or super-capacity dryer drum and main electronic control board</i> if any of these parts should fail due to a defect in materials or workmanship. During this <i>additional three-year limited warranty</i> , you will be responsible for any labor or related service costs.



WASHER / DRYER COMMUNICATION

2 ATTACH SERIAL CABLE

Attach the serial cable for washer and dryer connection to the serial port on the back of the dryer.

Attach the other end of the cable to the washer before pushing the washer into its final position.





Inside Dryer

Rear of Dryer

To turn on communications:

Press the **SETTINGS** button on the washer control panel When **DRYER LINK** appears in the display, press **ENTER** Using the arrow keys, select **ON**, then press **ENTER**.



MODEL / SERIAL / MINI MANUAL





DOOR REMOVAL



With the door open, locate and press together the tabs for the hinge cover.Close the door and pop off the hinge cover.



DOOR REMOVAL



- With the door closed, remove two Phillips screws securing door hinge to frame.
- Lift door from dryer front.



REVERSEABLE DOOR SWING



- Read the directions all the way through before starting
- Handle parts carefully to avoid scratching paint
- Provide a non-scratching work surface for the doors
- Separate screws by their related parts to avoid using them in the wrong places
- All screws must be hand tightened only
- Standard reversibility kit comes with machine

IMPORTANT: Once you begin, do not move the cabinet until doorswing reversal is completed.

TOOLS REQUIRED: Phillips head screwdriver Putty knife or thin blade screwdriver

INSTRUCTIONS



STACKED INSTALLATION

- Dryer can be stacked on washer as an installation option
- Stack kit comes packed with the washer
- Shipping weight of dryer is 200lbs

Tools Required: Phillips screwdriver Open end or adjustable wrench Pliers Level

IMPORTANT: Pedestals cannot be utilized when stacking laundry components

INSTRUCTIONS



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REVERSEABLE TUB ROTATION



- K7 (Reversing Relay) reverses tub rotation during tumble
- Tumble logic is 1 minute CW & 9 minutes CCW.
- Drum motor comes to a complete stop between direction changes

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RACK DRY



- Make sure the drum of the dryer is oriented so the rack drying system is on the left side of the dryer.
- Pull the drying rack screen out from the left side and engage the handle "posts" in the opposite baffle slots.
- Rack dry operates without the drum turning

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DISASSEMBLY – CONTROL PANEL





- Pry off main control knob with a putty knife
- This will expose a single Phillips screw under knob
- Remove the Phillips screw



DISASSEMBLY – CONTROL PANEL





With the knob and screw removed, grasp control panel on both sides & lift straight up to release hooks on control panel from grommets on machine frame.



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DISASSEMBLY – CONTROL PANEL



- One plug connects the control board to the dryer's electronic system
- Remove plug & set control aside to continue disassembly



DISASSEMBLY - TOP



- To release dryer top, remove three Phillips screws from front.
- Lift up top in front and slide top forward to disengage clips in rear

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DISASSEMBLY - TOP





Removing dryer top exposes Power Board mounted underneath.



DISASSEMBLY - FRONT REMOVAL





With top removed, disconnect two plugs (one for moisture sensor & one for door switch and light) located next to power Board.



DISASSEMBLY - FRONT REMOVAL





• <u>Loosen</u> but do not remove two Phillips screws at bottom holding front of the dryer to the frame of the machine.

• Remove four Phillips screws at the top of the cabinet front.

• Grasp cabinet front on both sides and lift off loosened screws at bottom.



DRUM SLIDES



- Four individual slides Two Teflon & Two Nylon
- All snap in to slide frame



DRUM LIGHT



Light is energized when door is opened or it can be turned by depressing drum light pad on control panel.



- Threaded bulb base
- 120vac 10W
- Part# WE4M305



DISASSEMBLY – DRUM REMOVAL



- After releasing belt from pulleys, remove either of the screws indicated in photo and slightly expand that side panel ever so slightly.
- Grasp the belt and lift the drum out of the dryer cabinet.



Dual Idler Pulley System & Belt Removal



- Before removing or reinstalling the belt, GE Factory Service Technicians are required to wear Abratex Sleeves and use a kneel pad or knee pads.
- Kneel or sit on the floor. Un-hook the belt from the motor pulley.
- When reinstalling the belt, hook the belt on the motor pulley first, then idler pulleys.



IDLER SWITCH





Switch position above shown in the closed mode.

If belt breaks, idler arm falls down on switch leaf and opens switch contacts.



REAR DRUM BEARING



Rear bearing part # - WE1M462



COMPONENT LOCATIONS (Gas Version)





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COMPONENT LOCATIONS (Gas Version)



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COMPONENT LOCATIONS (Gas Version)



New location for the 120V electric calrod heater for the "rack dry" feature. (New photo when available).



RACK DRY SCHEMATIC (Gas Version)



- With power off check for resistance between J9 & J10 Pin# 5 on PB.
- Should be @ 210hms.
- Confirms continuity of Rack Dry Thermostat & Calrod.
- Apply power, with unit in rack dry, check for 120vac at same points.
- Presence of 120vac confirms control component operation.



RACK DRY INTERLOCK (Electric only)



- In the Rack Dry Mode, the Rack Dry Interlock opens the heat circuit when the door is opened.
- As a customer education note, the rack dry heat will also turn off if the drum light is energized.



PURPLE

WHITE

DOR SWITCH

<u>COMPONENT LOCATIONS (Electric Version)</u>





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<u>COMPONENT LOCATIONS (Electric Version)</u>



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DISASSEMBLY – DRUM MOTOR





- To remove Drum motor, snap off two spring retainer clips.
- Lift motor from bracket.
- Disconnect two electrical plugs, one from motor switch & the other from the K7 reversing relay.



DRUM MOTOR SCHEMATIC





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DRUM MOTOR SCHEMATIC



Quick Checks:

- With power off check for resistance between J2 Pin# 4 & J10 Pin# 1 on PB.
- Should be @ 2.10hms.
- With open Start winding, resistance would be 4.3 Ohms.
- With open Run winding, resistance would be 3 Ohms.
- Apply power, with unit in dry mode, check for 120vac at same points.
- Presence of 120vac confirms control component operation.

BLOWER MOTOR ASSEMBLY



AC INPUT

- AC Input 120VAC
- Logic Voltage In Red Wire +5VDC / Yellow Wire Logic DC Ground
- Hall Effect Output Frequency Equal to RPM of Motor



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DISASSEMBLY - BLOWER MOTOR





To remove the blower motor:

- Loosen the 3/8" screw securing the blower wheel bracket
- Remove small Phillips screw securing the outlet control backup thermostat
- Remove two large Phillips screws holding motor plate to frame


DISASSEMBLY - BLOWER MOTOR



- Remove three Phillips screws securing motor plate to dryer floor.
- While holding blower wheel, slide entire motor assembly towards the rear, thus backing plate out of slots in the floor and sliding blower wheel off shaft.



DISASSEMBLY - BLOWER MOTOR



- Tilt assembly towards the rear and remove three Phillips screws holding motor to plate.
- Separate the two electrical plugs connected to motor.
- Lift motor out of dryer.



BLOWER MOTOR SCHEMATIC



Quick Checks:

- With power off check for resistance between J2 Pin# 5 & N at J1 on PB.
- Should be @ 210hms.
- Apply power, check for 120vac at same points.
- Presence of 120vac confirms control component operation.



DUAL STAGE GAS VALVE



- Two stage gas valve ensures better heat control
- First stage low flame low heat
- Second stage normal flame high heat
- Control regulates valve operation for proper heat levels



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DUAL STAGE GAS VALVE / LP CONVERSION



To convert dryer to LP operation, entire gas valve needs to be replaced



DUAL STAGE GAS VALVE - REMOVAL



- To remove the gas valve assembly, first disconnect gas supply.
- Disconnect all electrical plugs and terminal connections
- Remove two Phillips screws that secure valve to dryer floor
- Pull assembly back to disengage tabs from dryer floor

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IGNITOR



- To replace ignitor, disconnect electrical plug & remove single Phillips screw.
- Plug & harness comes with ignitor.
- Part# WE4X739



THERMISTORS / THERMOSTATS

Gas

THERMISTORS	THERMISTORS RESISTANCE VALUES AT						
k ohns	ŀ	•C					
78 – 82	86	30					
98 - 102	77	25					
118 - 122	69	21					

<u>Electric</u>

THERMISTERS RESISTANCE VALUES AT					
k ohms	۴F	°C			
78 - 82	86	30			
98 - 102	77	25			
118 - 122	69	21			

	TEMPERATURE F				TEMPERATURE [•] C			
INERMOSTAT	OPEN		CLOSE		OPEN		CLOSE	
OUTLET CONTROL BACKUP	165	± 5	155	± 5	74	± 3	68	± 3
HIGH-LIMIT	180	± 5	165	± 7	82	± 3	74	± 4
INLET-SAFETY	300	± 8	260	± 12	149	± 4	127	± 7
RACK DRY	130	± 5	115	± 6	54	± 3	46	± 3

THEDWOGTAT	TEMPERATURE F				TEMPERATURE C			
INERMUSIAI	OPEN		CLOSE		OPEN		CLOSE	
OUTLET CONTROL BACKUP	165	± 5	155	± 5	74	± 3	68	± 3
HIGH-LIMIT	315	± 10	250	± 15	157	± 6	121	± 9
INLET-SAFETY	210	± 5	180	± 7	99	± 3	82	± 4
rack dry	130	± 5	115	± 6	54	± 3	46	± 3



AIR FLOW

Gas Dryer

Electric Dryer





FLAME DETECTOR



• Very similar in operation and appearance to what we have used for years

• To replace, remove one Phillips screw, release tab from slot & remove wires





Quick Checks:

- With power off check for resistance between J18 & J2 Pin# 1 on PB.
- With 2nd stage gas valve intact, resistance should be @ 164Ohms.
- With open Ignitor, resistance is @ 408 Ohms.
- With open Flame Detector, resistance is @ 722 Ohms
- Also confirms continuity of Inlet Safety & Outlet Control BU Thermostats.
- Restore power & check for 120vac at same points.
- Presence of 120vac confirms operation of control components.



TRIAC - ELECTRIC HEATER CONTROL



MT1 – Orange MT2 – Blue Gate - Grey

 Replacement Triac comes with heatsink assembly





LINE FUSES (Electric Version)



- Line fuses have been added to the Electric Dryer circuit.
- Separate fuses. One in the L1 side of the line and one in the L2 side.



USER INTERFACE BOARD (backside)



One plug connects control board to the rest of the machine system To remove control board from panel, first remove five Phillips screws. Next, release four tabs and lift control board from front panel.



USER INTERFACE BOARD (front view)



Part # - WE4M418



POWER BOARD





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POWER BOARD

Power Board-Gas Models





POWER BOARD

Power Board-Electric Models





POWER BOARD (Electric)



Check for 240vac line voltage between J1 Pin# 1 & J2 Pin# 3.



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POWER BOARD (Electric)





Check for heater current around orange wire to Triac MT1.



POWER BOARD (Electric)



Check for Triac gate voltage (0 - 5vdc) between J4 Pin#3 (logic ground) and J27 (Jumper to the left of diode).



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How to enter the service mode:

From the idle state, (power off) press "My Cycle" then "Delay Start" then "My Cycle" then "Delay Start".





Upon entering the service mode, the control will be in "Test Selection Mode" and display the list of tests on the VFD.





• Scroll through the list of tests by using the up or down cursor arrows.

• The current selection will be represented by inverted text.





Once the desired test is highlighted, press "Enter" to begin the test.





During a test, press "Power" to terminate it and go back to the test selection mode.





Press "Power" during the test selection mode to exit the "Service mode".



SERVICE MODE SELECTIONS

Menu	Display	Action	Range			
Configure UI	Configure UI					
Error Codes	Error codes		No error codes			
Version Info	software versions for UI & MC					
EEProm Check	In progress	Check EEProm	UI Memory Check Ok			
UI Test	Control lights come 'On'	Check LEDs	All LEDs should light			
	[Left side then Right side]		ир			
Key Continuity	Check the button sound	Press each button to	All buttons should			
		check button sounds	beep once pressed			
Outlet	Outlet Thermistor	Check for outlet				
Thermistor	Temperature : [°F]	thermistor operation				
Inlet	Inlet Thermistor	Check for inlet				
Thermistor	Temperature : [°F]	thermistor operation	Drum should tumble			
	CF Switch : Open	Press Start to check for	and change direction			
		drum tumble	each 30 seconds.			
Moisture	Outlet Thermistor	Check the moisture	Moisture should be			
Sensor	Moisture : [V]	sensors	4.5 V to 5.0 V			
Blower/Exhaust	Blower/Exhaust Test	Check the exhaust				
	Current [RPM]	restriction				
	Open Exhaust					
Dryer Rack	Dryer Rack Temperature [°F]	Check for the rack-Inlet				
		thermistor operation				
For the last two the blower fan is active						



ERROR CODES

Error Code

E1 – Interface EEPROM
E101 – Power EEPROM
E2 – Inlet Short
E4 – Inlet Open
E3 – Outlet Short
E5 – Outlet Open
E61 – Check Electrical
Connection
E81 – Power Model

E10 – Blower Motor E11 – Blocked Airflow E12 – Drum Motor

E16 – LIN Comm Fail

E17 – VFD Communication Error E18 – Stuck Button

Description

Reading or writing improperly. Replace UI board. Reading or writing improperly. Replace power board. Inlet thermistor shorted, check & replace if necessary. Inlet thermistor open, check & replace if necessary. Outlet thermistor shorted, check & replace if necessary. Outlet thermistor open, check & replace if necessary. Input voltage too high, please check power connections.

No model select connector detected, check model selector on power board.

Blower is not rotating properly. Please check.

Check ventilation system.

Motor is not rotating properly or centrifugal switch is bad. Please check.

There is a problem with the communication between the Machine Control and the User Interface Control.

There is a problem with the serial communication interface between the UI and VFD Stuck kova, Places shock

Stuck keys. Please check.







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END OF PRESENTATION

QUESTIONS???



Installation Instructions

REVERSING THE DOOR SWING (if desired)

IMPORTANT NOTES

- Read the instructions all the way through before starting.
- Handle parts carefully to avoid scratching paint.
- Provide a non-scratching work surface for the doors.
- Set screws down by their related parts to avoid using them in the wrong places.
- All screws must be hand-tightened.
- Normal completion time to reverse the door swing is 30–60 minutes.

IMPORTANT: Once you begin, do not move the cabinet until door-swing reversal is completed.

These instructions are for changing the hinges from the right side to the left side—if you ever want to switch them back to the right side, follow these same instructions and reverse all references to the left and right.

TOOLS YOU WILL NEED

Phillips head screwdriver

Putty knife or thin-blade screwdriver











Remove the side hinge cap by opening the dryer door and removing the screw from behind the hinge. Then using your hand, pop the hinge cap off the dryer.



Hold the door and remove the 2 hinge screws (#10 x 0.75" tapping screws). Pull the door away from the dryer front panel.



2 DISASSEMBLE THE DOOR ASSEMBLY

Lay the door down on a soft, protected, flat surface so that the inner part faces upward (door resting on the handle side).

Remove the 7 screws (#10 \times 1.125" tapping screws) located around the perimeter of the door.



Turn the door assembly over and separate the chrome cover from the inner door. Put the inner door aside on a soft, protected flat surface.



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RETURN

STACKING THE WASHER AND DRYER (if desired)

BEFORE YOU BEGIN

Read these instructions completely and carefully.

- **IMPORTANT** Save these instructions for local electrical inspector's use.
- IMPORTANT Observe all governing codes and ordinances.
- Note to Installer Be sure to leave these instructions with the Consumer.
- Note to Consumer Keep these instructions for future reference.
- Service **must** be performed by a qualified installer.
- Proper installation is the responsibility of the installer.

FOR YOUR SAFETY:

A WARNING -

- Electric Shock Hazard. Disconnect power before installing. Failure to do so could result in serious injury or death.
- Potential Personal Injury. More than two people are recommended to lift the dryer into position because of its weight and size. Failure to do so could result in personal injury or death.
- Avoid Tipping and Rupture of Utility Services. Dryer must be securely attached to the washer. DO NOT place the washer on top of the dryer. Failure to do so could result in personal injury/death or property damage.
- Mobile Home or Manufactured Home Installation – Stacking of a gas dryer is not permitted in a mobile home or manufactured home.

MINIMUM CLEARANCE OTHER THAN ALCOVE OR CLOSET INSTALLATION

Minimum clearance to combustible surfaces and for air opening are: 0" both sides, 1" front and 3" rear. Consideration must be given to provide adequate clearance for installation and service.

REQUIREMENTS FOR ALCOVE OR CLOSET INSTALLATION

- Your dryer is approved for installation in an alcove or closet, as stated on a label on the dryer back.
- The dryer MUST be vented to the outdoors. See the EXHAUSTING THE DRYER section.
- Minimum clearance between dryer cabinet and adjacent walls or other surfaces is:
 - 0" either side

3" front and rear

- Minimum vertical space from floor to overhead shelves, cabinets, ceilings, etc., is 52".
- Closet doors must be louvered or otherwise ventilated and have at least 60 square inches of open area equally distributed. If the closet contains both a washer and a dryer, doors must contain a minimum of 120 square inches of open area equally distributed.
- The closet should be vented to the outdoors to prevent gas pocketing in case of gas in the supply line.
- No other fuel-burning appliance shall be installed in the same closet with the dryer (gas models only).

NOTE: WHEN THE EXHAUST DUCT IS LOCATED AT THE REAR OF THE DRYER, MINIMUM CLEARANCE FROM THE WALL IS 5.5 INCHES.

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3 INSTALL BRACKET TO DRYER

- A. Align the holes in the left bracket with the holes in the bottom left corner of the dryer. Use a Phillips screwdriver to install the 2 #12 x 1" tapping screws.
- **B.** Repeat the above step with the right bracket on the bottom right corner of the dryer.
- C. Set the dryer upright.

NOTE: Make sure to set the dryer on a piece of packing material so the brackets that are attached to the bottom of the dryer do not damage the floor.



INSTALL DRYER AND BRACKET ON WASHER

A. Lift the dryer on top of the washer. Be careful not to scratch the top of the washer with the brackets. Protect the washer control panel with cardboard or other protection. Be sure to lift the dryer high enough to clear the washer control panel.

AWARNING - Potential

Personal Injury. More than two people are recommended to lift the dryer into position because of its weight and size. Failure to do so could result in personal injury or death.

B. Align the holes in the bracket with the holes in the back of the washer. Using a Phillips screwdriver, attach the 2 #8 x 1/2" tapping screws. Repeat on both sides of the washer.



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5 FINALIZE THE INSTALLATION

- A. Refer to the washer Installation Instructions to complete the washer installation.
- **B.** Refer to the dryer Installation Instructions to complete the dryer installation.
- C. Carefully slide or walk the stacked washer and dryer into place. Use felt pads or other sliding device to assist moving and to protect flooring.

AWARNING – Potential Personal Injury. Do not push on the dryer once installed to top of the washer. Pushing on the dryer may result in pinched fingers.







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