



Haier.

HWD1000

HWD1500

HWD1600

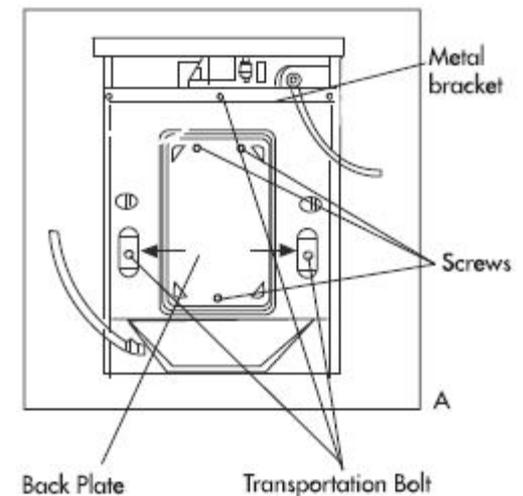
**FRONT LOAD WASHER
& DRYER COMBO**

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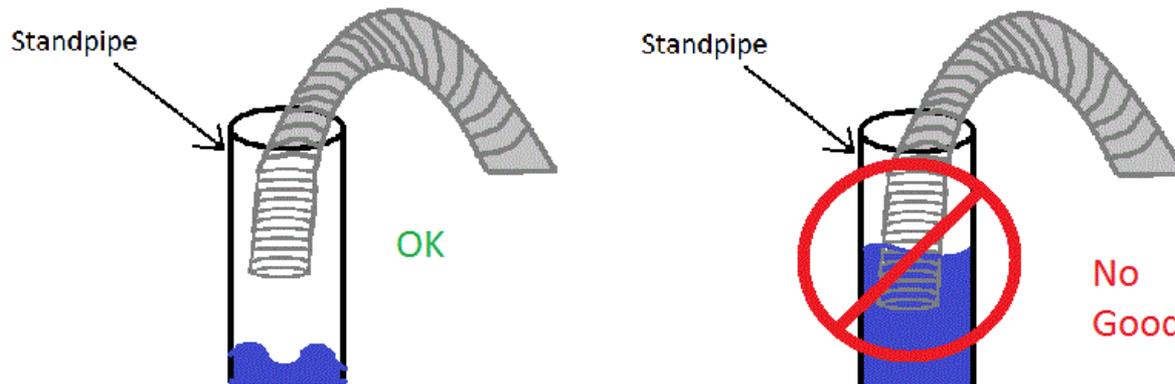
Installation Guidelines Part 1

- Do not remove the shipping bolts until the unit is at the installation space
 - Remove the shipping bolts just before the unit is to be moved into the final location
- Make sure the unit is level
 - Level can be verified by pressing on all 4 corners, if any of the corners move additional adjustment is required
 - BE SURE TO LOCK THE LEVELING LEGS



Installation Guidelines Part 2

- Make sure the Hot and cold supply lines are connected properly, unobstructed and fully open
 - Do not reuse old water supply hoses
- Make sure the drain hose is installed into the standpipe properly and secured
 - The drain hose end should not be submerged



Maintenance Guidelines

- Use High Efficiency (HE) detergent only
 - The wrong type of soap can lead to poor wash performance and possibly damage the washer
- Clean the Drain Filter every two weeks
- Inspect the door boot gasket for tears or foreign matter with each new cycle
- Clean the door boot with bleach monthly to prevent mold



Common Operation Issues

- **Clothes do not dry within 120 Minutes**
 - The washer will wash ~ 12 pounds of clothes at once but the unit only designed to dry 6.6 lbs. of clothes within 2 hours
 - 6.6 Lbs. is approximately 2 full outfits
- This unit uses energy saving vent less condensation drying, different from traditional vented drying
- Condensation drying operates like a cold drink on a hot day where the cold surface of the glass attracts moisture to the outside of the glass.
- The condensation dryer circulates air through the drum, but instead of being vented back out, it is passed through a heat exchanger. This heat exchanger is essentially a cooling surface, attracting moisture. The moisture drips into a drainpipe. After passing through the heat exchanger the air is reheated and blown back into the drum. This process is repeated throughout the dry cycle.

Common Operation Issues

- Cannot open the door
 - This unit uses a safety interlock that locks the door for three minutes after the cycle ends or the stop button is pressed
 - This is done to protect the user from flood damage and excessive heat
- Clothes come out dry but wrinkled
 - The smaller drum size may not allow garments to “fluff”, try reducing the number of garments being dried at one time.

Common Operation Issues

- Unit does not seem to fill properly
 - Front load washers are designed to use less water than older style washers,
 - it is normal to see only 1/3 of the drum filled with water
- The unit fills and pumps even during the dry cycle
 - This unit utilizes condensation drying which requires cold water to speed the drying process. This is normal

Common Operation Issues

- **Musty Smell**
 - Inspect the door boot assembly for mold etc.
 - Be sure to use HE soap only
- **Does not Drain**
 - Inspect the drain pump filter for obstructions or debris



Common Operation Issues

- Water remains in the detergent cup after the cycle
 - On occasion, soap may clump or cake blocking the drain hole in the detergent cup, if the water in the cup is clear no service is required.
 - Inspect the detergent dispenser for foreign matter or debris which might block the siphon process
 - Be sure to use only HE soap
- Incorrect water temperature
 - Verify the Hot water line is connected to the red fitting and cold to the blue fitting. (Do not assume)
 - Verify both water supplies are turned on
 - Verify the Hot water temperature is at least 120 F

Common Operation Issues

- Does not Fill
 - Verify both supply lines are connected properly and the taps are turned on (do not assume red is hot and blue is cold, verify)
- Excessive Suds
 - Use HE Soap only and in the correct quantity



Common Operation Issues

- Does not Spin
 - Inspect the drain pump filter for obstructions or debris
- Excessive Vibration
 - Verify the unit is level and all four legs are supporting weight
 - Be sure to Lock the leveling legs
- Some water is drained before the initial wash
 - Units are tested randomly at the factory, water might remain in the drain system after the testing
- UnB (Unbalance error) is displayed
 - Rebalance the load or if necessary remove some items



Common Operation Issues

- Leaks around the door
 1. Inspect the door boot for debris or foreign matter, items as small as hair can prevent the door from sealing properly
 2. Inspect the door boot for misalignment
 3. Verify the door is closing and latching properly
 4. Use HE soap only
- Leaks around the soap dispenser
 1. Verify the dispenser drawer is closed all the way
 2. Verify the trays are not being overfilled
 3. Verify the unit is level
 4. Use HE soap only
- Leaks around the Rear
 1. Inspect the water lines are connected properly (no crossed threads or missing washers)
 2. Verify the drain hose is secured properly and inserted properly into the standpipe

Component Test Information

Component	Nominal DC resistance	Possible Related Error code or Symptom
Hot water Valve	1.05 K ohms	Err5
Heater Assembly	11 Ohms	Err9, Err13
Pre wash valve	1.05K ohms	Err5
Main Wash Valve	1.06 K ohms	Err5
Dryer Fan Motor	9 ohms	Err9 , Err13
Dryer Heating element	11 Ohms	Err9, Err13
Water Level Pressure sensor	15 ohms	Err5

HWD1000 Error Code Chart Part 1

Note	This chart assumes all operation issues have already been attempted	
Error Number	Repair Scenario	Parts Recommendation
Err1	Verify the door latch data is being fed back to the Main PCB	Door latch assembly
Err2	Access test mode and verify the drain pump drive signal is working. Inspect the drain pump for restrictions	Drain Pump Assembly
Err5	Check the electrical connections to the water valves	Water Valve
Err7	Check the electrical connections at the drive motor, motor control PCB and Main PCB	Motor Control PCB
Err8	Inspect the pressure tube from the tub to the pressure sensor looking for kinks or leaks. Inspect the electrical connections from pressure sensor to the Main PCB	Pressure sensor
Err9	Check the electrical connections at the dryer heater and the dryer motor including the fuse and thermal cutout	Dryer Motor
Err 11	Inspect the pressure tube from the tub to the pressure sensor looking for kinks or leaks. Inspect the electrical connections from pressure sensor to the Main PCB	Pressure sensor
Err 12	Inspect the wiring from main PCB to the drain pump. Inspect the drain pump for restrictions	Drain Pump Assembly

HWD1000 Error Code Chart Part 2

Note	This chart assumes all operation issues have already been attempted	
Error Number	Repair Scenario	Parts Recommendation
Err 13	Inspect the pressure tube from the tub to the pressure sensor looking for kinks or leaks. Inspect the electrical connections from pressure sensor to the Main PCB	Pressure sensor
E22	Check the electrical connections at the Main PCB	Main PCB
Err 31	Verify the connections and operation of the Main Drum Motor	Main PCB
EC 3	Check the electrical connections from the Main PCB to the drive motor	Motor Control PCB
EC 4	Verify the continuity of the dryer heater, dryer fuse and thermal cutout. Open the dryer housing and verify there is NOT a lint buildup.	Dryer Heater
EC5	Verify the connections and operation of the dryer temp thermistor	Dryer Thermistor
U02	Verify the connections and operation of the door latch	Door Latch
U03	Check the drum for an unbalance condition	N/A
U04	Verify the connections and operation of the door latch	Door Latch

HWD15/1600 Error Code Chart Part 1

Note	This chart assumes all operation issues have already been attempted	
Error Number	Possible solution	Parts Recommendation
Err1	Inspect the door latch and the wiring connecting the door latch to the Man PCB	Door Latch
Err2	Inspect the wiring from the Main PCB to the drain pump, Inspect the drain pump for restrictions or clogs	Drain Pump
Err5	Inspect the electrical connections from the Main PCB to the water valves	Water Valve
Err7	Inspect the electrical connections from the Main PCB to the motor control PCB,	Motor Control PCB

HWD15/1600 Error Code Chart Part 2

Note	This chart assumes all operation issues have already been attempted	
Error Number	Possible solution	Parts Recommendation
Err8	Inspect the water line from the drum to the pressure sensor look for restrictions or loose connections, Inspect the electrical connections from the pressure sensor to the Main PCB	Pressure Sensor
Err9	Verify the continuity of the dryer heater, dryer fuse and thermal cutout. Open the dryer housing and verify there is NOT a lint buildup.	Dryer Heater
Er 10	Inspect the pressure tube from the tub to the pressure sensor looking for kinks or leaks. Inspect the electrical connections from pressure sensor to the Main PCB	Pressure sensor
Err 12	Inspect the wiring from the Main PCB to the drain pump, Inspect the drain pump for restrictions or clogs	Pressure Sensor
Err 13	Unplug the unit and plug it back in to reset the CPU. Verify the continuity of the dryer heater, dryer fuse and thermal cutout. Open the dryer housing and verify there is NOT a lint buildup.	Main PCB
UnB	Rebalance the load and verify the unit is not being overloaded	N/A

HWD15/1600 Self Check Mode

Press the and hold the extra rinse button and then spin the mode selector knob . Keep pressing the extra rinse button the screen will display "tEst.

Use the Start/Pause Button to advance through the test functions, If an error is encountered the unit will NOT advance to the next test.

To exit the Self test Mode unplug the unit

Number	Item	Confirmation message	Error message
Test 1	Dryer Temp sensor	88:88	
Test 2	Door Lock	77:77	ERR1
Test 3	Water Valve Test	66:66	ERR5
Test 4	Drum Motor Test	55:55	
Test 5	Dryer Heater Test	33:33	
Test 6	Drain Pump Test	11:11	
Test End		End	

Poor Drying Performance troubleshooting

- Drying more than 6.6 Lbs. of clothing will greatly extend drying time
- Defeat the door latch switch and verify there is air movement into the door boot gasket during drying operation
- Open the dryer housing plenum and inspect the squirrel cage motor as well as the heating element
 - Dust paper or similar items can block the air movement



HWD1000 Service Parts List

Part Number	Description	Truck Stock
WD-4550-05	Fan Drive Motor	Y
WD-5470-14	Drain Pump	Y
WD-7800-11	Hot water Valve	
WD-7800-96K	Main Water Valve	
WD-0140-01	Door Latch Assembly	
WD-7350-08	Thermostat (this includes the fusible link)	Y
WD-3500-01	Pressure Switch	Y
WD-3100-72	Door Boot	Y
WD-5800-33	Door Boot Spring	
WD-2500-05	Heater Assembly	
WD-6250-08	Thermistor	Y

HWD1500 Service Parts List

Part Number	Description	Truck Stock
WD-4550-88	Fan Drive Motor	Y
WD-5470-22	Drain Pump	Y
WD-7800-11	Hot water Valve	
WD-7800-96	Main Water Valve	
WD-6955-01	Door Latch Assembly	
WD-7350-08	Thermostat (this includes the fusible link)	Y
WD-1650-33	Pressure Switch	Y
WD-5210-11	Motor Control PCB	
WD-3100-100	Door Boot	Y
WD-5800-33	Door Boot Spring	
WD-2500-05	Heater Assembly	
WD-6250-08	Thermistor	Y

HWD1600 Service Parts List

Part Number	Description	Truck Stock
WD-4550-88	Fan Drive Motor	Y
WD-5470-22	Drain Pump	Y
WD-7800-11	Hot water Valve	
WD-7800-96	Main Water Valve	
WD-6955-01	Door Latch Assembly	
WD-7350-08	Thermostat (this includes the fusible link)	Y
WD-1650-33	Pressure Switch	Y
WD-5210-11	Motor Control PCB	
WD-3100-100	Door Boot	Y
WD-5800-33	Door Boot Spring	
WD-2500-05	Heater Assembly	
WD-6250-08	Thermistor	Y