Technical Information- Dishwasher

MDB6600AWB MDB7600AWB MDB7650AWB

MDB6600AWQ MDB7600AWQ MDB7650AWQ

MDB6600AWS MDB7600AWS MDB7650AWS

MDB6600AWW MDB7600AWW MDB7650AWW

Due to possibility of personal injury or property damage, always contact an authorized technician for servicing or repair of this unit. Refer to Service Manual 16021814.

All safety information must be followed as provided in Service Manual 16021814.

4

WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to dishwasher before servicing, unless testing requires power.

| Specifications MDB6600AW* | | Benefits MDB6600AW* | | MDB7600AW* | MDB7650AW* |
|---------------------------|----------------|---------------------|---|------------|------------|
| | MDB7600AW* | | | | |
| | MDB7650AW* | | | | |
| Power Source | | Wash cycles | 5 | 5 | 5 |
| Voltage AC | 120 VAC | Heavy Wash | Х | Х | Х |
| Amperage (Single Unit) | 15 A | Normal Wash | Х | Х | Х |
| Frequency | 60 Hz | Light Wash | Х | Х | Х |
| Motor horsepower | 1/3 | Rinse Only | Х | Х | Х |
| Receptacle | N/A | Auto Clean | Х | Х | Х |
| Plug | N/A | Drying System | Х | Х | Х |
| Dimensions | | Features | | | |
| Height-overall | 33 ½" to 35 ¼" | QuietSeries 300™ | | Х | Х |
| Width | 23 7/8" | QuietSeries 200™ | Х | | |
| Depth | 23 1/2" | *ToughScrub™ | Х | Х | Х |
| Weight | | *Extra Rinse X | | Х | Х |
| Un-crated | 65 lbs. | *Sanitizer | Х | Х | Х |
| | | 2/4/6 Hour Delay | Х | | |
| | | Start | | | |
| | | 1-9 Hour Delay | | Х | Х |
| | | Start | | | |
| | | Control Lock | Х | Х | Х |
| | | Energy Star | Х | Х | Х |
| | | Active Vent Dry | Х | Х | Х |
| | | Finer Filtration | Х | Х | Х |
| | | Hard Food | Х | Х | Х |
| | | Disposer | | | |
| | | Remaining Time | | Х | |
| | | Countdown | | | |
| | | Display | | | |
| | | 11 Touch Pad | X | X | Х |
| | | Controls | | | |

*On selected models only

Component Specifications

WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to dishwasher before servicing, unless testing requires power.

| Illustration | Component | Test Procedure | Results |
|--------------|---|--|--|
| | Dishwasher Motor CCW rotation only viewed from shaft end. 1/3HP 120V/60hz, 3.2 amps, 3250 RPM Main Wattage, 285 watts Start Wattage, 1115 watts | Measure resistance from ST5 (Motor Common – blue) to ST8 (Motor Main - yellow) See Component Specifications/Motor Connections for details. | 3 to 4 Ω |
| | Control Board | See Component Specifications/ Membrane Readings for troubleshooting/pin-out instructions. | |
| | Water valve 120V/60hz, 7 watts 1.13 ± .10 gpm at 20- 120 psi | Measure resistance from J6 Pin 4 Aqua (Float switch) to ST4 Black (Common) | 1.1 k Ω (This value assumes the float switch is closed). |
| | Vent wax motor 120V with 1/4" actuation stroke within 60 seconds | Measure resistance from J6 Pin 1 Purple (Vent) to ST4 Black (Common) | 1.2 k Ω |
| | Dispenser wax motor 120V with 1/4" actuation stroke within 60 seconds | Measure resistance from J6 Pin 3 Tan (Dispenser) to ST4 Black (Common) | 2 k Ω |

Component Specifications

WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to dishwasher before servicing, unless testing requires power.

4

| Illustration | Component | Test Procedure | Results |
|--------------|--|---|--|
| | Limit Thermostat | Close on Temperature drop @ 149°F ± 7°F (Temp) Open on Temperature drop @ 164°F ± 4°F (Temp) | 0Ω = Closed Infinite Ω = Open |
| | Sensor/Thermistor | $10K\Omega \pm 3\%$ at 77°F and 2.4 k $\Omega \pm$ 6.5% at 140°F J5 pin 1 - Orange (Temp) to J5 Pin 4 - Red (Neutral) | Infinite Ω = Open 0 Ω = Closed |
| | Heater/Heating Element 120v/60hz, 650 watts ± 5% in air, 830 watts ± 5% in coldwater | Measure resistance from ST1 Red/Black (Heater) to ST11 White (Common) | 16 Ω (This value assumes the high limit thermostat is closed). |
| | Drain Motor 120v/60hz | Measure resistance from ST6 Gray (Drain) to ST4 Black (Common) See section "Motor Connections and Diagram" for wiring contacts. | 25 Ω |

Component Readings/Testing

WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to dishwasher before servicing, unless testing requires power.

Manual Function Test

A Manual Function Test may be started by pressing the Normal Wash key 5 times followed by the Start key within 6 seconds.

The Normal Wash LED will Flash 3 times indicating manual test mode is active. Specific keypads will turn on or off a component as follows:

| Wash Motor |
|--|
| Drain Motor |
| Water Valve |
| Soap Dispenser (cycle once) Rinse Aid (cycle twice) |
| Vent |
| Heating Element |
| |

When a component is activated by pressing a specific keypad, the LED above the keypad will be On. The test will cancel 120 seconds after the last keypad is pressed. The display (if available) will show '99' until the remaining timeout period is less than 99 seconds. At this point it will countdown until the mode times out, is cancelled, or another key is pressed. To cancel test, press the Start / Cancel keypad.

Sales Floor Demo Mode

Press Extra Rinse keypad 5 times within 6 seconds. The LEDs will illuminate in a progressive order until all are lit. All LED's will stay on for 1 second then all go off simultaneously. The display (if available) will begin at '50' and sequence down to '0' at a 1 second interval and repeat until this mode is terminated. This mode will repeat.

To cancel, press the Start / Cancel keypad.

Diagnostic Tips

To check control LEDs, enter Sales Floor Demo Mode. If control fails to perform as described, replace control. To check control and components, enter Field Service Test. If control fails to perform sequence as described, and a fault is detected, determine failure as described in the Field Service Test. If a load component failure has been diagnosed, proceed to the Manual Function Test. To check individual load components for proper operation, enter Manual Function Test. Follow test procedure as described. Repair or replace component as needed.

Note: The High Current or Low Current Motor Error may be detected during a wash cycle selected by a consumer. If this happens, the control will go into a 30 second auto restart mode and shut down if the unit is not able to restart the motor. Membrane Deeding

| | viemp | rane | Readings | |
|---|-------|------|-----------|--|
| (| Front | Only | Controls) | |
| | | ~ | | |

| Connector | Measure Between |
|-----------|---|
| .11 | Pin 9 - Pin 5 |
| 11 | Pin 0 Pin 6 |
| 51 | FII19 - FII10 |
| J1 | Pin 9 - Pin 7 |
| J1 | Pin 9 - Pin 8 |
| J1 | Pin 10 - Pin 5 |
| J1 | Pin 10 - Pin 6 |
| J1 | Pin 10 - Pin 7 |
| J1 | Pin 11 - Pin 5 |
| J1 | Pin 11 - Pin 6 |
| J1 | Pin 11 - Pin 7 |
| J1 | Pin 10 - Pin 8 |
| J1 | Pin 11 - Pin 8 |
| J1 | Pin 12 - Pin 7 |
| | Connector J1 J1 J1 J1 J1 J1 J1 J1 J1 J1 |

An unpressed switch will read as an open circuit.

A pressed switch will read as 10 k ohms.

* On select models

Field Service Test

A Field Service Test may be started by pressing the Heavy Wash key 5 times followed by the Start key within 6 seconds. This test must be performed with clean water to insure proper sensor performance.

"88" will appear in the display (if available*) and the following sequence of events will occur:

| SECONDS | FUNCTIONS / ACTIVE LOADS |
|---------|---|
| 106 | Vent Wax Motor/Water Valve |
| 5 | Thermistor check/Turbidity Sensor check & calibration - no loads active. |
| 120 | Wash Motor/Vent Wax Motor/Dispenser Wax Motor |
| 180 | Wash Motor/Heater/Vent Wax Motor |
| 120 | Drain Pump |
| 4 | Water Valve |

Time frame for Thermistor/Turbidity Sensor check & calibration may vary slightly.

The Field Service Test will not repeat. The Heavy Wash LED will Flash during the test mode. Indicator lights (except Heavy Wash and the Display) will illuminate per Sales Floor Demo Mode. If the dishwasher door is opened during the test, the test sequence will pause, and resume when the door is closed. To the cancel test, press the Start / Cancel keypad.

The control has been designed to test the Sensor Memory and Motor. During the Field Service Test, if a fault has been detected, the test will abort any time after the motor current has been checked and 2 or more LED's will begin to Flash. A Memory / Software Check will occur immediately after the test is started. The (See Note **) LED and one of the following:

> Turbidity Sensor - failure - Rinse Only LED Thermistor - failure - Heavy Wash LED Motor - high current - Normal Wash LED Motor - low current - Light Wash LED Memory Failure - Heated Dry LED

* On select models

** On units with Front Controls only, this will be the Clean LED, on units with Top & Front Controls, this will be the Delay LED

Membrane Readings (Front & Top Controls)

| | Connector | Measure Between |
|-------------------|-----------|-----------------|
| Auto Clean | J1 | Pin 10 - Pin 5 |
| Heavy Wash | J1 | Pin 9 - Pin 5 |
| Normal Wash | J1 | Pin 9 - Pin 6 |
| Light Wash | J1 | Pin 9 - Pin 7 |
| Rinse Only | J1 | Pin 9 - Pin 8 |
| Quick Wash | J1 | Pin 10 - Pin 6 |
| Heated Dry | J1 | Pin 11 - Pin 5 |
| Sanitize | J1 | Pin 11 - Pin 6 |
| Extra Rinse | J1 | Pin 11 - Pin 8 |
| Tough Scrub Plus | J1 | Pin 10 - Pin 7 |
| 160° Wash | J1 | Pin 10 - Pin 8 |
| Model ID Jumper * | J1 | Pin 12 - Pin 8 |
| Start / Cancel | J3 | Pin 9 - Pin 5 |
| Delav | 13 | Pin 9 - Pin 6 |

An unpressed switch will read as an open circuit. A pressed switch will read as 10 k ohms. * On select models

Load Readings

| | Measure between: | Result |
|--------------------------|--------------------------------------|--------------------|
| Heater ¹ | ST1 (Heater) - ST11 (Dlb Neutral) | 16 ohms |
| Wash Motor | ST5 (Motor Common) - ST8 (Motor Main | n) 3 to 4 ohms |
| Drain Motor | ST6 (Drain) - ST4 (Dlb Line) | 25 ohms |
| Vent Wax Motor | J6 Pin 1 (Vent) - ST4 (Dlb Line) | 1.2 k ohms |
| Dispenser Wax Motor | J6 Pin 3 (Disp) - ST4 (Dlb Line) | 2 k ohms |
| Water Valve ² | J6 Pin 4 (Inlt) - ST4 (Dlb Line) | 1.1 k ohms |
| Thermistor | J5 Pin 1 (Temp) - J5 Pin 4 (Neutral) | See Component Info |
| | | |

Notes:

This value assumes the high limit thermostat is closed. 1.

This value assumes the float switch is closed. 2.

3. Results are approximate values.

Electrical Diagnostics

| | | | | VARN | ING | |
|---|--|--|---|---|--|---|
| sk of e ing red | lectrical shoo quires power. | ck, per | sonal injury, or de | eath, disco | connect power to dishwasher before servicing, | |
| | | ω | N | - | Re | |
| *** A resistor in the control board wired in parallel will result in an approximate reading of 4.0 k ohms with connector J5 plugged in. | * Select Models Only. ** Nominal value for ohms of electrical resistance of component only. These values will vary slightly due to the additional resistance of the wire harness. Greater variation can occur if the component is still warm from being energized during testing. | Perform the resistance checks on the component(s) in question at the locations shown on the chart. | To check continuity from ends of power leads to control board through door switches : (A white plastic latch <u>must</u> be inserted in the latch assembly for this test.) > With one ohm meter lead connected to the white (neutral) power lead, you should have continuity at stake lugs 10 & 11. > With one ohm meter lead connected to the black (line) power lead, you should have continuity at stake lugs 3 & 4, and pin # 8 on connector J5. | Use the <u>"Manual Function Test"</u> [as described on the electrical schematic sheet (6 918139)] to check components <u>before</u> opening the door to perform continuity testing or replacing parts. | sistance Check Points and Values Themistor (thru harness only with connector unplugged)*** 10K* +/- 35% @ 77°F 2.4K* +/- 6.5% @ 140°F 2.4K* +/- 6.5% @ 140°F UTL AG Pin # 1 2 3 4 5 6 7 8 Pin # 1 2 3 4 5 6 7 8 Pin # 1 2 3 4 5 6 7 8 Pin # 1 2 3 4 5 6 7 8 Pin # 1 2 3 4 5 6 7 8 Pin # 1 2 3 4 J5 UTL TN AG Gircuit Board | |
| | <u>Always</u> remove power to the unit before performing any resistance or <u>continuity checks.</u> | be closed) | Heater (14.5 - 16.5**) (High limit t'stat must | Wash Motor (3 - 4**) | Drain Motor (25**) H WH YL GY HWH YL GY BU BK BK RD BK | |
| | of reference of the control board wired in parallel will result in an approximate reading of 4.0 k ohms with connector J5 plugged in. | * Select Models Only: * Nominal value for ohms of electrical resistance of component only. These values will vary slightly due to the additional resistance of the wire harness. Greater variation can occur if the component is still warm from being energized during testing. ** A resistor in the control board wired in parallel will result in an approximate reading of 4.0 k ohms with connector J5 plugged in. | 3 Perform the resistance checks on the component(s) in question at the locations shown on the chart. be closed) * Select Models Only. * Nominal value for ohms of electrical resistance of component only. These values will vary slightly due to the additional resistance of the wire harness. Greater variation can occur if the component is still warm from being energized during testing. Mways remove power to the unit before performing any resistance or component only. These values will vary slightly due to the additional resistance of the wire harness. Greater variation can occur if the component is still warm from being energized during testing. Mways remove power to the unit before performing any resistance or continuity checks. Continuity checks. *** A resistor in the control board wired in parallel will result in an approximate reading of 4.0 k ohms with connector J5 plugged in. **** | A white plastic latch <u>must</u> be inserted in the latch assembly for this test.) Section 2 Section | A control to be the " <u>Manual Function Test"</u> [as described on the electrical schematic sheet (6 918139)] to the character opening the door to perform continuity testing or replacing parts. Conteck continuit from ends of power leads to control board through door switches: A while plastic latch <u>must be increased in the latch assembly for this test</u> ; With one ohm meter lead connected to the while (neutral) power lead, you should have continuity at stake lugs 3 & 4, and pin # 8 on connector Js. Perform the resistance checks on the component(s) in question at the locations shown on the chart. Select Models Only 'Nominal value for other of electrical resistance of component only. These values will vary slightly due to the additional resistance. Greater variation can occur if the component is the <u>stance or</u> to the unit. <u>Always remove power to the unit</u> before performing any resistance or continuity chart. <u>Always remove power to the unit</u> <u>before performing any resistance or</u> <u>continuity checks.</u> | A determined with the end of the set of the end of the set of the set of the end of the set of t |

May 2004 ©2004 Maytag Services

Motor Connectivity

WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to dishwasher before servicing, unless testing requires power.



1/3HP 120V/60hz, 3.2 amps, 3250 RPM

Wiring Diagram

To avoid risk of electrical shock, personal injury, or death, disconnect power to dishwasher before servicing, unless testing requires power.

WARNING



May 2004 ©2004 Maytag Services

Cycle Chart

| A WARNING | | | | | | | | |
|---|---|--|--|---|---|---|--|--|
| To avoid risk of electrical shock, personal injury, or death, disconnect power to dishwasher before servicing, | | | | | | | | |
| | | | 22m2 22 | | | <u> </u> | | |
| Notes 1. All times are approximate 2. Temperature checks force a maximum 20 minute heating delay to reach the desired temperature. 3. The Auto Clean cycle telinition gives the minimum and maximum possible cycle tengths. Actual cycle length and executed cycle functions will vary based on the sensor input. 4. Fill length varies between different models. The sense of the desired temperature. The desired temperature checks force a maximum possible cycle tengths. Actual cycle length and executed cycle functions will vary based on the sensor input. The desired temperature checks force and the desired temperature checks force and the desired temperature checks force and maximum possible cycle tengths. Actual cycle length and executed cycle functions will vary based on the sensor input. The desired temperature checks force and temperature checks fo | Autocontent Carton of the second | HEAVY WASH CYCLE (130 Munutes - min) FILL PRE (131 munutes - min) FILL PRE (130 munutes - min) HEATED PRE (130 munutes - min) HEATED PRE (146 max) HEATED DRAN (130 min) HEATED PRAN (136 min) FILL PRE (136 min) HEATED PRAN (136 min) FILL PRE (146 max) HEATED PRAN (136 min) FILL PRE (146 max) HEATED PRAN (136 min) FILL PRE (146 max) HEATED PRAN (136 min) FILL PRE (146 max) HEATED PRAN (136 min) FILL PRE (136 min) HEATED PRAN (136 min) FILL PRE (146 max) HEATED PRAN (136 min) FILL PRE (136 min) HEATED TEMP PRAN (136 min) FILL PRE (136 min) HEATED TEMP PRAN (136 min) FILL PRAN (136 min) HEATED TEMP PRAN (136 min) FILL PRAN (136 min) HEATED TEMP PRAN (136 max) HEATED TEMP PRAN (136 min) HEATED TEMP PRAN (136 min) | Transferrite Transferrite Transferrite Transferrite Analysis and a dational if a minutes of transferrite and wash and provide to board or 195°. Transferrite Transferrite Transferrite Transferrite Analysis and the main wash and provide to board or 195°. NORMAL WASH CYCLE (18 Minutes - main) HEATED TSM DEAN WASH METED 200 TEMP 136 min (18 Minutes - main) ELL (14 max DET WASH METED 200 TEMP 200 ELL (146 max METED USS TEMP 200 FILL (146 max HEATED (100 TEMP 200 FILL (146 max HEATED (100 TEMP (146 max FILL (100 METED (100 TEMP (146 max FILL (100 METED (100 TEMP (120 FILL (146 max FILL | Extra Rine - The options adds an additional II between the main wash and the final rises for an additional 5 minutes of unheated rines. Notes: If Headed Dry is not selected, the heater will not be activated during the dry cycle. If Wash cycle If Headed Dry is not selected, the heater will not be activated during the dry cycle. If Wash is selected, the heater will not be activated during the dry cycle. Full wash cycle Full heat DET HEATED Is 6 min DET HEATED Is 6 min DET HEATED 1:36 min DET HEATED 1:36 min DET HEATED 1:36 min Rink Price Rink Price Rink Price DET Main Price DET Heat red 1:36 min Price DET Heat red 1:36 min Fill wash is compared to a made and the final rines for an additional 5 minutes of unheated rines. Notes: If Headed Dry is not selected, the heater will not be activated during the dry cycle. Det wash is compared to a minutes of unheated at the end of the dry cycle. Available options: The Rine Price Text Price Text Price Text Price Det Price Det Price Det Price Store Det Price Store Store Det Price Store Det Price Store Det Price Store Store Det Price Store Store Det Price Store Store Det Price Store Store | Autobe Options: No options are available options: 3:00 1:30 1:00 <t< th=""><th>Index FLL 1:36 min 500 INSE 200 DAAN 200 FLL 1:36 min 500 INSE 200 DAAN 02 FLL 1:36 min 500 INSE 02 DAAN 02</th></t<> | Index FLL 1:36 min 500 INSE 200 DAAN 200 FLL 1:36 min 500 INSE 200 DAAN 02 FLL 1:36 min 500 INSE 02 DAAN 02 | | |

May 2004 ©2004 Maytag Services Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com