Dishwasher — Technical Information

ADB3500AW*, MDBM755AW*, MDB7751AW*, MDB8751AW*, MDB8951AW*

- 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 for detailed installation, operating, testing, troubleshooting, and disassembly instructions

▲ CAUTION

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

WARNING

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Benefits	ADB3500AW*	MDBM755AW* MDB7751AW*	MDB8751AW*	MDB8951AW*
Wash cycles	5	4	6	5
Heavy Wash	Х	Х	Х	X
Normal Wash	X	Х	X	X
Quick Wash	X			
Light Wash		X	X	X
Insta Wash			Х	X
Auto Clean			Х	Х
Rinse Only	X	X	Х	Х
Features				
Sound package	Sofsound III™	QuietSeries™ 200	QuietSeries™ 300	QuietSeries™ 400
High Temp Wash	Х	Х	Х	Х
Electronic Controls	X	Х	Х	Х
Sanitizer		X	X	X
Sensor clean	X	X	X	X
Water Filtration	100% Filtered wash water	Micro-Fine Plus Filtration	Micro-Fine Plus Filtration	Micro-Fine Plus Filtration
Delay Start	2,4 or 6 Hour Delay Start	2,4 or 6 Hour Delay Start	1-9 Hour Delay Start	1-9 Hour Delay Start
Energy Star	X	X	X	X
Hard Food Disposer	×	Х	Х	Х
Child lockout	X	X	X	X
Touch Pad Controls	10	7	12	13
Silverware Location	In door	Wash Compartment	Wash Compartment	Wash Compartment
Low rinse aid indicator	Х			

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Component Specifications

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Specifications	Value	
Power Source		
Voltage AC	120 VAC	
Amperage (Single Unit)	15 A	
Frequency	60 Hz	
Motor horsepower	1/3	
Dimensions		
Height-overall	33 ½" to 35 ¼"	
Weight	71	

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)	3 to 4 Ω
	Control Panel	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 90 seconds	Measure resistance from J6 Pin 1 Purple (Vent) to ST4 Black (Common)	1.2 k Ω

Component Specifications

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Illustration	Component	Test Procedure	Results
	Dispenser wax motor 120V with 1/4" actuation stroke within 90 seconds	Measure resistance from J6 Pin 3 Tan (Dispenser) to ST4 Black (Common)	2 k Ω
	Limit Thermostat	Close on Temperature drop @ 149°F ± 7°F (Temp)	0Ω = Closed Infinite Ω = Open
	Sensor/Thermistor	$10 \text{K}\Omega \pm 3\%$ at 77°F and $2.4 \text{ k}\Omega \pm 6.5\%$ at 140°F J5 pin 1 - Orange (Temp) to J5 Pin 4 - Red (Neutral)	$\begin{array}{ll} \text{Infinite } \Omega = \text{Open} \\ 0 \ \Omega & = \text{Closed} \end{array}$
	Heater/Heating Element 120v/60hz, 650 watts ± 5% in air, 830 watts ± 5% in 90°F water	Measure resistance from ST1 Red/Black (Heater) to ST11 White (Common)	16Ω (This value assumes the high limit thermostat is closed).
	Drain Motor 120v/60hz 45 watts	Measure resistance from ST6 Gray (Drain) to ST4 Black (Common)	25 Ω

Component Readings/Testing



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Manual Function Test

A Manual Function Test may be started by pressing the **Heated Dry** key 5 times followed by the **Start** key within 8 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:

KEY	Function	LED
Hi Temp Wash	Wash Motor	Hi Temp Wash
Delay	Water Inlet Valve	Delay
Heated Dry	Heating Element	Heated Dry
Cycles Select / Normal		
First Press	No Action	Heavy Wash
Second Press	Dispenser	Normal Wash
Third Press	Drain Pump	Light Wash / China Crystal

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.

Diagnostic Tips

To check control, LED's 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 Readings (All Models)

Heavy Wash * Normal Wash * Light Wash / China Crystal / Gentle Wash /	Connector J1 J1	Measure Between Pin 9 - Pin 5 Pin 9 - Pin 6
Quick * Rinse Only * Auto Clean / Sensor Clean * Heated Dry Sanitize * Hi Temp Wash	J1 J1 J1 J1 J1	Pin 9 - Pin 7 Pin 9 - Pin 8 Pin 10 - Pin 5 Pin 11 - Pin 5 Pin 11 - Pin 6 Pin 11 - Pin 8

(Front Only Controls)

An unpressed switch will read as an open circuit.

A pressed switch will read as 10k□.

* On select models

Field Service Test

A Field Service Test may be started by pressing the **Heated Dry** key 6 times followed by the **Start** key within 8 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

The time for the Thermistor check / Turbidy Sensor check & calibration may vary slightly.

The Field Service Test will not repeat. The **Heavy Wash** LED will **Flash** during the test mode. All Indicator lights (except **Heavy Wash**) will illuminate. If the dishwasher door is opened during the test, the test sequence will pause, and resume when the door is closed. To cancel the 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 **(Delay / Delay 2 hr)** LED and one of the following:

Turbidity Sensor - failure - Hi Temp Wash LED Thermistor - failure - Heavy Wash LED Motor - high current - Normal Wash LED Motor - low current - Light Wash LED Memory Failure - Heated Dry LED

Membrane Readings (Front & Top Controls)

	Connector	Measure Between
Insta Wash *	J1	Pin 10 - Pin 6
Tough Scrub Plus / Super Scrub / Power Scrul	b* J1	Pin 10 - Pin 7
160° Wash *	J1	Pin 10 - Pin 8
Tough Scrub / Extra Wash / Hi Temp *	J1	Pin 11 - Pin 7
Model ID Jumper *	J1	Pin 12 - Pin 8
Start / Cancel	J3	Pin 9 - Pin 5
Delay	J3	Pin 9 - Pin 6

(Top Only Controls)

	Connector	Measure Between
Insta Wash *	J1	Pin 10 - Pin 6
Tough Scrub Plus / Super Scrub *	J1	Pin 10 - Pin 7
160° Option	J1	Pin 10 - Pin 8
Tough Scrub / Extra Wash / Hi Temp *	J1	Pin 11 - Pin 7
Model ID Jumper *	J1	Pin 12 - Pin 6
Start Cancel	J1	Pin 13 - Pin 12
Delay	J1	Pin 13 - Pin 14
Delay		

Load Readings

	ivieasure between	Resuit
Heater ¹	ST1 (Heater) - ST11 (Dlb Neutral)	16□
Wash Motor	ST5 (Motor Common) - ST8 (Motor Mair	n) 3 to 4□
Drain Motor	ST6 (Drain) - ST4 (Dlb Line)	25□
Dispenser Wax Motor	J6 Pin 3 (Disp) - ST4 (Dlb Line)	2k□
Water Valve ²	J6 Pin 4 (Inlt) - ST4 (Dlb Line)	1.1k□
Thermistor	J5 Pin 1 (Temp) - J5 Pin 4 (Neutral)	See Component Info

Notes:

- 1. This value assumes the high limit thermostat is closed.
- 2. This value assumes the float switch is closed.
- 3. Results are approximated values.

Connector Massura Batusan

^{*} On select models

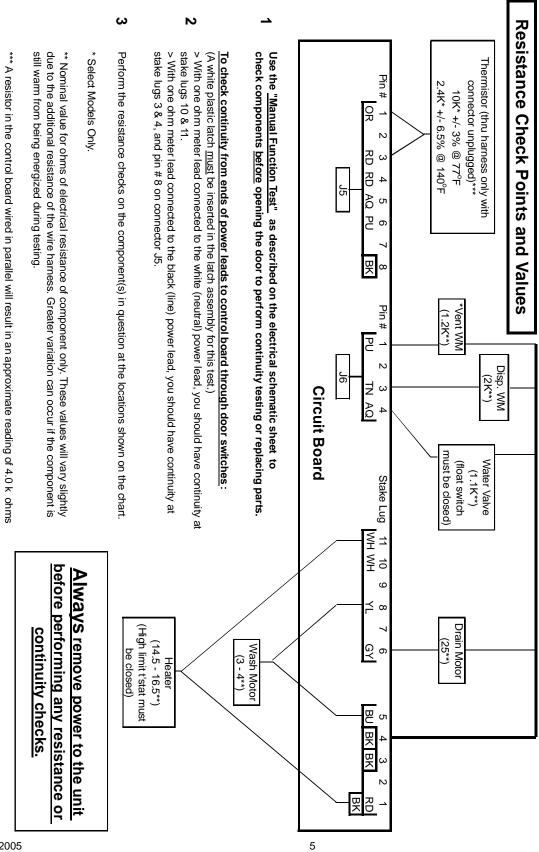
Electrical Diagnostics

with connector J5 plugged in.



WARNING

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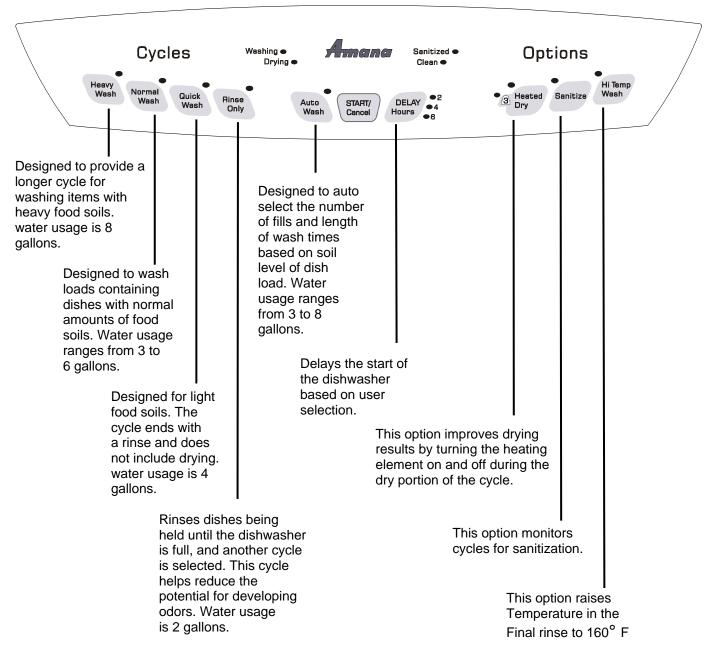
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Control Definition

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WARNING

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Light Wash-**Insta Wash**Designed to wash loads containing dishes that are lightly soiled Water usage is 5 gallons.
Designed to wash loads containing dishes that are lightly soiled Water usage is 5 gallons.

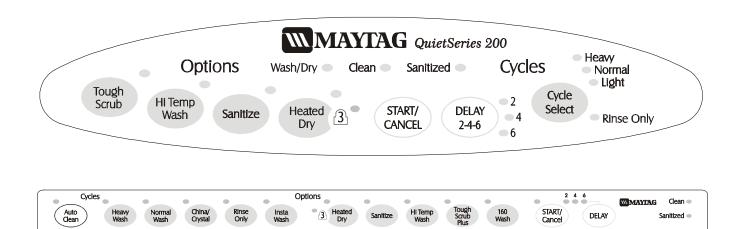
Auto Clean- Designed to auto select the number of fills and length of wash times based on soil level of dish load.

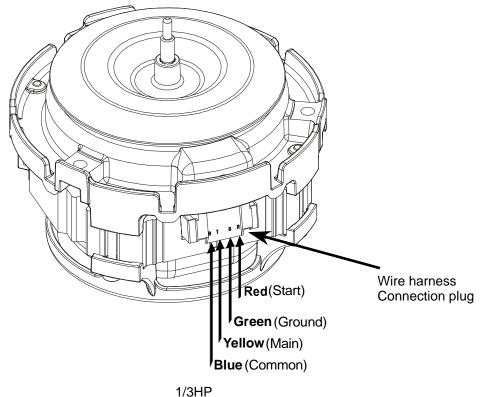
Water usage ranges from 3 to 8 gallons.

Tough Scrub- This option adds fills, heat and/or wash time to the wash cycle.

Control Definition/Motor Connectivity

WARNING

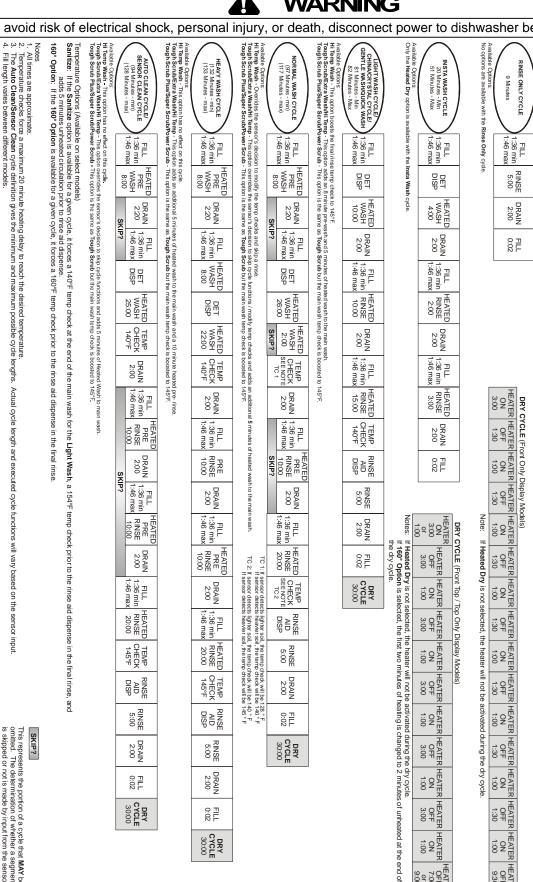




Cycle Chart

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This represents the portion of a cycle that MAY be omitted. The determination of whether a segment is skipped or not is made by input from the sensor.

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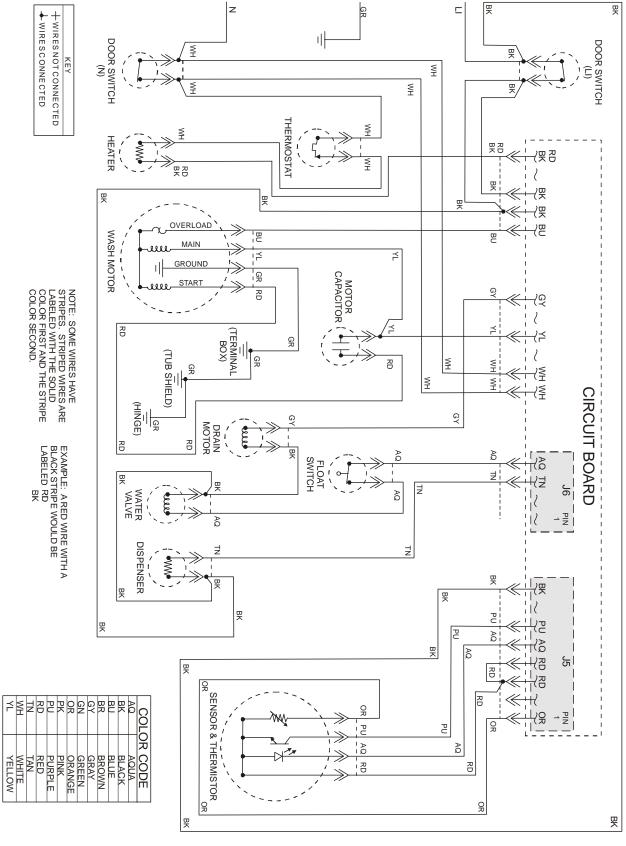
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HEATER OFF 9:30

HEATER OFF 7:00 or 9:00

Wiring Diagram

WARNING



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