



ELECTROLUX HOME PRODUCTS NORTH AMERICA

SERVICE MANUAL

***24" BUILT-IN DISHWASHERS
2001 MECHANICAL MODELS***

PRECISION WASH SYSTEM

Frigidaire

TAPPAN

W White-Westinghouse

Gibson

Kelvinator 

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SAFE SERVICING PRACTICES - ALL APPLIANCES

To avoid personal injury and/or property damage, it is important that **Safe Servicing Practices** be observed. The following are some limited examples of safe practices:

1. **DO NOT** attempt a product repair if you have any doubts as to your ability to complete it in a safe and satisfactory manner.
2. Before servicing or moving an appliance:
 - Remove the power cord from the electrical outlet, trip the circuit breaker to the OFF position, or remove the fuse.
 - Turn off the gas supply.
 - Turn off the water supply.
3. Never interfere with the proper operation of any safety device.
4. **USE ONLY REPLACEMENT PARTS CATALOGED FOR THIS APPLIANCE. SUBSTITUTIONS MAY DEFEAT COMPLIANCE WITH SAFETY STANDARDS SET FOR HOME APPLIANCES.**
5. **GROUNDING:** The standard color coding for safety ground wires is **GREEN**, or **GREEN** with **YELLOW STRIPES**. Ground leads are not to be used as current carrying conductors. It is **EXTREMELY** important that the service technician reestablish all safety grounds prior to completion of service. Failure to do so will create a hazard.
6. Prior to returning the product to service, ensure that:
 - All electrical connections are correct and secure
 - All electrical leads are properly dressed and secured away from sharp edges, high-temperature components, and moving parts
 - All non-insulated electrical terminals, connectors, heaters, etc. are adequately spaced away from all metal parts and panels
 - All safety grounds (both internal and external) are correctly and securely connected
 - All panels are properly and securely reassembled

ATTENTION!!!

This service manual is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. Electrolux Home Products cannot be responsible, nor assume any liability, for injury or damage of any kind arising from the use of this manual.

WHAT'S NEW

- √ **COLLAPSIBLE TOWER** - Single wash arm on low end models with collapsible tower that is molded into the spray arm. This tower retracts completely into the lower arm giving added area in the lower rack.
- √ **VENT COVER**- The vent cover has the gasket molded into the cover to prevent water leaks.
- √ **PUMP AND MOTOR ASSEMBLY** - The wash pump and motor are in one piece and is not repairable. The new design motor does not have nor need a seal to prevent water leaks. In the end of this motor is a small circuit board that is designed to make sure that the motor will always start in the proper direction. This new motor is mounted with a new mounting bracket that only requires two screws.
- √ **SANITIZE RINSE** - On the higher end models, a sanitize rinse setting has been added and the rinse temperature will reach 150°F.

FRIGIDAIRE

MODEL	FDB125RH*2	FDB345LF*2	FDB421RF*6	FDB421RF*7	FDB435RFR*6
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ELECTRICAL

Service Data Sheet	154395901	154400501	154370901	154405901	154385401
Voltage	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
Cycles	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Circuit Rating (Amps)	15 / 20	15 / 20	15 / 20	15 / 20	15 / 20
Motor (HP)	1/12 th	1/12 th	1/12 th	1/12 th	1/12 th
Motor (Amps)	1.1	1.1	1.1	1.1	1.1
Heater (Watts)	900	900	900	900	900
Total Amps	10	10	10	10	10
Temp Assure		117°F ± 5°F	N/A	N/A	117°F ± 5°F
Temp Boost		127°F (53°C)	122°F (50°C)	122°F (50°C)	127°F (53°C)
Sanitize		N/A	N/A	N/A	N/A
Hi-Limit Thermostat		200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)

COMPONENT RESISTANCE (ohms)

Timer Motor	2357	2357	7700	7700	2357
Heating Element	13.5	9.28	9.28	9.28	9.28
Pump Motor					
Vent Actuator	N/A	1893	1893	1893	1893
Dispenser	1928	1928	1928	1928	1928
Drain Motor	28	28	28	28	28
Water Valve Solenoid	699	699	699	699	699
Blower	N/A	N/A	N/A	N/A	N/A

WATER SUPPLY

Minimum Incoming Water Temperature	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)
Pressure (min/max - psi)	20 / 120	20 / 120	20 / 120	20 / 120	20 / 120
Connection (NPT)	3/8"	3/8"	3/8"	3/8"	3/8"
Normal Cycle Water Consumption (gal.)	7.2	6	6	6	6
Water valve Flow Rate (GPM)		.83	.83	.83	.83
Water Recirculation Rate (GPM)	12	12	12	12	12
Water Fill Time (Seconds)		87	87	87	87

DIAGRAMS (Located in Appendix A or B)

Service Data Sheet	B - 9	B - 16	B - 1	B - 21	B - 7
Control Panel	A - 9	A - 10	*	*	*
Door	A - 17	A - 18	*	*	*
Tub	A - 20	A - 20	*	*	*
Motor & Pump	A - 23	A - 24	*	*	*
Frame	A - 29	A - 29	*	*	*
Racks	A - 35	A - 32	*	*	*

* Information not available - Parts Catalogs not created as of this Publication date

FRIGIDAIRE

MODEL	FDB435RFS*4	FDB634CF*4	FDB635RF*6	FDP635RF*5	FDB641RA*0
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ELECTRICAL

Service Data Sheet	154385401	154396801	154396801	154396801	154403801
Voltage	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
Cycles	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Circuit Rating (Amps)	15 / 20	15 / 20	15 / 20	15 / 20	15 / 20
Motor (HP)	1/12 th	1/12 th	1/12 th	1/12 th	1/12 th
Motor (Amps)	1.1	1.1	1.1	1.1	1.1
Heater (Watts)	900	900	900	900	900
Total Amps	10	10	10	10	10
Temp Assure	117°F ± 5°F	117°F ± 5°F	117°F ± 5°F	117°F ± 5°F	N/A
Temp Boost	127°F (53°C)	122°F (50°C)	122°F (50°C)	122°F (50°C)	122°F (50°C)
Sanitize	N/A	N/A	N/A	N/A	N/A
Hi-Limit Thermostat	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)

COMPONENT RESISTANCE (ohms)

Timer Motor	2357	2357	2357	2357	7700
Heating Element	9.28	9.28	9.28	9.28	9.28
Pump Motor					
Vent Actuator	1893	1893	1893	1893	N/A
Dispenser	1928	1928	1928	1928	1928
Drain Motor	28	28	28	28	28
Water Valve Solenoid	699	699	699	699	699
Blower	N/A	N/A	N/A	N/A	N/A

WATER SUPPLY

Minimum Incoming Water Temperature	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)
Pressure (min/max - psi)	20 / 120	20 / 120	20 / 120	20 / 120	20 / 120
Connection (NPT)	3/8"	3/8"	3/8"	3/8"	3/8"
Normal Cycle Water Consumption (gal.)	6	6	6	6	6
Water valve Flow Rate (GPM)	.83	.83	.83	.83	.83
Water Recirculation Rate (GPM)	12	12	12	12	12
Water Fill Time (Seconds)	87	87	87	87	87

DIAGRAMS (Located in Appendix A or B)

Service Data Sheet	B - 7	B - 15	B - 15	B - 15	B - 20
Control Panel	*	A - 11	A - 11	B - 11	*
Door	*	A - 18	A - 18	A - 18	*
Tub	*	A - 20	A - 20	A - 19	*
Motor & Pump	*	A - 24	A - 24	A - 24	*
Frame	*	A - 29	A - 29	A - 25	*
Racks	*	A - 32	A - 32	A - 32	*

* Information not available - Parts Catalogs not created as of this Publication date

FRIGIDAIRE

MODEL	FDB641RJ*1	FDP641RA*0	FDB657RJ*1	FDB658RA*0
ELECTRICAL				
Service Data Sheet	154403801	154403801	154396201	154396201
Voltage	120 VAC	120 VAC	120 VAC	120 VAC
Cycles	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Circuit Rating (Amps)	15 / 20	15 / 20	15 / 20	15 / 20
Motor (HP)	1/12 th	1/12 th	1/12 th	1/12 th
Motor (Amps)	1.1	1.1	1.1	1.1
Heater (Watts)	900	900	900	900
Total Amps	10	10	10	10
Temp Assure	N/A	N/A	N/A	N/A
Temp Boost	122°F (50°C)	122°F (50°C)	122°F (50°C)	122°F (50°C)
Sanitize	N/A	N/A	137°F (58°C)	137°F (58°C)
Hi-Limit Thermostat	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
COMPONENT RESISTANCE (ohms)				
Timer Motor	7700	7700	2357	2357
Heating Element	9.28	9.28	9.28	9.28
Pump Motor				
Vent Actuator	N/A	N/A	1893	1893
Dispenser	1928	1928	1928	1928
Drain Motor	28	28	28	28
Water Valve Solenoid	699	699	699	699
Blower	N/A	N/A	N/A	N/A
WATER SUPPLY				
Minimum Incoming Water Temperature	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)
Pressure (min/max - psi)	20 / 120	20 / 120	20 / 120	20 / 120
Connection (NPT)	3/8"	3/8"	3/8"	3/8"
Normal Cycle Water Consumption (gal.)	6	6	6	6
Water valve Flow Rate (GPM)	.83	.83	.83	.83
Water Recirculation Rate (GPM)	12	12	12	12
Water Fill Time (Seconds)	87	87	87	87
DIAGRAMS (Located in Appendix A or B)				
Service Data Sheet	B - 20	B - 20	B - 11	B - 11
Control Panel	*	*	*	*
Door	*	*	*	*
Tub	*	*	*	*
Motor & Pump	*	*	*	*
Frame	*	*	*	*
Racks	*	*	*	*

* Information not available - Parts Catalogs not created as of this Publication date

FRIGIDAIRE (Gallery Models)

MODEL	GLDB653A*0	GLDB653J*2	GLDB656J*1	GPDB698J*1	GLDB756A*0
ELECTRICAL					
Service Data Sheet	154402401	154396801	154396201	154396201	154402501
Voltage	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
Cycles	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Circuit Rating (Amps)	15 / 20	15 / 20	15 / 20	15 / 20	15 / 20
Motor (HP)	1/12 th	1/12 th	1/12 th	1/12 th	1/12 th
Motor (Amps)	1.1	1.1	1.1	1.1	1.1
Heater (Watts)	900	900	900	900	900
Total Amps	10	10	10	10	10
Temp Assure	117°F ± 5°F	117°F ± 5°F	N/A	N/A	117°F ± 5°F
Temp Boost	122°F (50°C)	122°F (50°C)	122°F (50°C)	122°F (50°C)	N/A
Sanitize	N/A	N/A	137°F (58°C)	137°F (58°C)	137°F (58°C)
Hi-Limit Thermostat	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
COMPONENT RESISTANCE (ohms)					
Timer Motor	2357	2357	2357	2357	2357
Heating Element	9.28	9.28	9.28	9.28	9.28
Pump Motor					N/A
Vent Actuator	N/A	1893	1893	1893	1893
Dispenser	1928	1928	1928	1928	1928
Drain Motor	28	28	28	28	28
Water Valve Solenoid	699	699	699	699	699
Blower	N/A	N/A	N/A	N/A	214
WATER SUPPLY					
Minimum Incoming Water Temperature	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)
Pressure (min/max - psi)	20 / 120	20 / 120	20 / 120	20 / 120	20 / 120
Connection (NPT)	3/8"	3/8"	3/8"	3/8"	3/8"
Normal Cycle Water Consumption (gal.)	6	6	6	6	6
Water valve Flow Rate (GPM)	.83	.83	.83	.83	.83
Water Recirculation Rate (GPM)	12	12	12	12	12
Water Fill Time (Seconds)	87	87	87	87	87
DIAGRAMS (Located in Appendix A or B)					
Service Data Sheet	B - 17	B - 15	B - 11	B - 11	B - 18
Control Panel	*	A - 11	A - 3	A - 6	*
Door	*	A - 18	A - 18	A - 17	*
Tub	*	A - 21	A - 21	A - 21	*
Motor & Pump	*	A - 25	A - 25	A - 25	*
Frame	*	A - 30	A - 30	A - 31	*
Racks	*	A - 33	A - 34	A - 35	*

* Information not available - Parts Catalogs not created as of this Publication date

UNIVERSAL - MULTIFLEX

MODEL	MDB122RF*2	MDB124BA*0	MDB124BJ*1	MDB124BH*1	MDB125RH*2
ELECTRICAL					
Service Data Sheet	154396001	154407901	154396001	154396001	154395901
Voltage	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
Cycles	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Circuit Rating (Amps)	15 / 20	15 / 20	15 / 20	15 / 20	15 / 20
Motor (HP)	1/12 th	1/12 th	1/12 th	1/12 th	1/12 th
Motor (Amps)	1.1	1.1	1.1	1.1	1.1
Heater (Watts)	900	900	900	900	900
Total Amps	10	10	10	10	10
Temp Assure	N/A	N/A	N/A	N/A	N/A
Temp Boost	127°F (53°C)	127°F (53°C)	127°F (53°C)	127°F (53°C)	N/A
Sanitize	N/A	N/A	N/A	N/A	N/A
Hi-Limit Thermostat	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
COMPONENT RESISTANCE (ohms)					
Timer Motor	7700	7700	7700	7700	2357
Heating Element	9.28	9.28	9.28	9.28	9.28
Pump Motor	N/A	N/A	N/A	N/A	N/A
Vent Actuator	1893	1893	1893	1893	N/A
Dispenser	1928	1928	1928	1928	1928
Drain Motor	28	28	28	28	28
Water Valve Solenoid	699	699	699	699	699
Blower	N/A	N/A	N/A	N/A	N/A
WATER SUPPLY					
Minimum Incoming Water Temperature	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)
Pressure (min/max - psi)	20 / 120	20 / 120	20 / 120	20 / 120	20 / 120
Connection (NPT)	3/8"	3/8"	3/8"	3/8"	3/8"
Normal Cycle Water Consumption (gal.)	6	6	6	6	7.2
Water valve Flow Rate (GPM)	.83	.83	.83	.83	.83
Water Recirculation Rate (GPM)	12	12	12	12	12
Water Fill Time (Seconds)	87	87	87	87	87
DIAGRAMS (Located in Appendix A or B)					
Service Data Sheet	B - 10	B - 22	B - 10	B - 10	B - 9
Control Panel	A - 15	*	A - 15	A - 15	A - 9
Door	A - 19	*	A - 18	A - 18	A - 18
Tub	A - 21	*	A - 21	A - 21	A - 21
Motor & Pump	A - 25	*	A - 25	A - 25	A - 24
Frame	A - 28	*	A - 28	A - 28	A - 30
Racks	A - 32	*	A - 32	A - 32	A - 37

* Information not available - Parts Catalogs not created as of this Publication date

AMANA

MODEL	ADW350RA*0	ADW350RA*1	ADW550RA*0	ADW550RA*1	ADW650RA*0
ELECTRICAL					
Service Data Sheet	154382801	154396301	154382901	154396401	154383001
Voltage	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
Cycles	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Circuit Rating (Amps)	15 / 20	15 / 20	15 / 20	15 / 20	15 / 20
Motor (HP)	1/12 th	1/12 th	1/12 th	1/12 th	1/12 th
Motor (Amps)	3.4	1.1	3.4	1.1	3.4
Heater (Watts)	900	900	900	900	900
Total Amps	11	10	11	10	11
Temp Assure	N/A	N/A	N/A	N/A	N/A
Temp Boost	127°F (53°C)	127°F (53°C)	117°F ± 5°F	117°F ± 5°F	122°F ± 5°F
Sanitize	N/A	N/A	127°F (53°C)	127°F (53°C)	137°F (58°C)
Hi-Limit Thermostat	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
COMPONENT RESISTANCE (ohms)					
Timer Motor	7700	7700	2357	2357	2357
Heating Element	9.28	9.28	9.28	9.28	9.28
Pump Motor	4.3	N/A	4.3	N/A	4.3
Vent Actuator	1893	1893	1893	1893	1893
Dispenser	1928	1928	1928	1928	1928
Drain Motor	28	28	28	28	28
Water Valve Solenoid	699	699	699	699	699
Blower	N/A	N/A	N/A	N/A	N/A
WATER SUPPLY					
Minimum Incoming Water Temperature	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)
Pressure (min/max - psi)	20 / 120	20 / 120	20 / 120	20 / 120	20 / 120
Connection (NPT)	3/8"	3/8"	3/8"	3/8"	3/8"
Normal Cycle Water Consumption (gal.)	6	6	6	6	6
Water valve Flow Rate (GPM)	.83	.83	.83	.83	.83
Water Recirculation Rate (GPM)	12	12	12	12	12
Water Fill Time (Seconds)	87	87	87	87	87
DIAGRAMS (Located in Appendix A or B)					
Service Data Sheet	B - 4	B - 13	B - 5	B - 14	B - 6
Control Panel	A - 5	A - 12	A - 7	A - 13	A - 7
Door	A - 16	A - 18	A - 16	A - 18	A - 16
Tub	A - 21	A - 21	A - 21	A - 21	A - 21
Motor & Pump	A - 22	A - 25	A - 22	A - 25	A - 22
Frame	A - 29	A - 28	A - 29	A - 31	A - 29
Racks	A - 32	A - 32	A - 33	A - 33	A - 34

* Information not available - Parts Catalogs not created as of this Publication date

AMANA			CROWN	
MODEL	ADW650RA*1	ADW650RA*2	F71C12PH*1	F71C24RJ*1
ELECTRICAL				
Service Data Sheet	154382801	154396301	154395901	154403001
Voltage	120 VAC	120 VAC	120 VAC	120 VAC
Cycles	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Circuit Rating (Amps)	15 / 20	15 / 20	15 / 20	15 / 20
Motor (HP)	1/12 th	1/12 th	1/12 th	1/12 th
Motor (Amps)	3.4	1.1	1.1	31.1
Heater (Watts)	900	900	900	900
Total Amps	11	10	10	10
Temp Assure	N/A	N/A	N/A	N/A
Temp Boost	122°F ± 5°F	122°F ± 5°F	N/A	122°F (50°C)
Sanitize	137°F (58°C)	137°F (58°C)	N/A	N/A
Hi-Limit Thermostat	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
COMPONENT RESISTANCE (ohms)				
Timer Motor	2357	2357	2357	7700
Heating Element	9.28	9.28	13.5	13.5
Pump Motor	4.3	N/A	N/A	N/A
Vent Actuator	1893	1893	N/A	
Dispenser	1928	1928	1928	1928
Drain Motor	28	28	28	28
Water Valve Solenoid	699	699	699	699
Blower	N/A	N/A	N/A	N/A
WATER SUPPLY				
Minimum Incoming Water Temperature	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)
Pressure (min/max - psi)	20 / 120	20 / 120	20 / 120	20 / 120
Connection (NPT)	3/8"	3/8"	3/8"	3/8"
Normal Cycle Water Consumption (gal.)	6	6	7.2	6
Water valve Flow Rate (GPM)	.83	.83	.83	.83
Water Recirculation Rate (GPM)	12	12	12	12
Water Fill Time (Seconds)	87	87	87	87
DIAGRAMS (Located in Appendix A or B)				
Service Data Sheet	B - 4	B - 12	B - 9	B - 19
Control Panel	A - 7	A - 13	*	*
Door	A - 13	A - 18	*	*
Tub	A - 21	A - 21	*	*
Motor & Pump	A - 25	A - 22	*	*
Frame	A - 29	A - 31	*	*
Racks	A - 34	A - 34	*	*

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GIBSON

MODEL	GDP635RH*2	GDB742RJ*0	GDB742RJ*1	GDB755RJ*0	GDB755RJ*1
ELECTRICAL					
Service Data Sheet	154396801	154374101	154403001	154374001	154383001
Voltage	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
Cycles	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Circuit Rating (Amps)	15 / 20	15 / 20	15 / 20	15 / 20	15 / 20
Motor (HP)	1/12 th	1/12 th	1/12 th	1/12 th	1/12 th
Motor (Amps)	1.1	1.1	1.1	3.4	1.1
Heater (Watts)	900	900	900	900	900
Total Amps	10	10	10	11	10
Temp Assure	117°F ± 5°F	N/A	N/A	N/A	N/A
Temp Boost	122°F (50°C)	122°F (50°C)	122°F (50°C)	122°F (50°C)	122°F (50°C)
Sanitize	N/A	N/A	N/A	137°F (58°C)	137°F (58°C)
Hi-Limit Thermostat	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
COMPONENT RESISTANCE (ohms)					
Timer Motor	2357	7700	7700	2357	2357
Heating Element	9.28	9.28	9.28	9.28	9.28
Pump Motor	N/A	N/A	N/A	4.3	N/A
Vent Actuator	1893	1893	1893	1893	1893
Dispenser	1928	1928	1928	1928	1928
Drain Motor	28	28	28	28	28
Water Valve Solenoid	699	699	699	699	699
Blower	N/A	N/A	N/A	214	N/A
WATER SUPPLY					
Minimum Incoming Water Temperature	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)	120°F (49°C)
Pressure (min/max - psi)	20 / 120	20 / 120	20 / 120	20 / 120	20 / 120
Connection (NPT)	3/8"	3/8"	3/8"	3/8"	3/8"
Normal Cycle Water Consumption (gal.)	6	6	6	6	6
Water valve Flow Rate (GPM)	.83	.83	.83	.83	.83
Water Recirculation Rate (GPM)	12	12	12	12	12
Water Fill Time (Seconds)	87	87	87	87	87
DIAGRAMS (Located in Appendix A or B)					
Service Data Sheet	B - 15	B - 3	B - 19	B - 2	B - 6
Control Panel	A - 11	A - 8	*	A - 4	A - 13
Door	A - 19	A - 18	*	A - 18	A - 18
Tub	A - 20	A - 21	*	A - 21	A - 21
Motor & Pump	A - 25	A - 23	*	A - 23	A - 25
Frame	A - 26	A - 27	*	A - 27	A - 28
Racks	A - 33	A - 32	*	A - 33	A - 33

* Information not available - Parts Catalogs not created as of this Publication date

CONSTRUCTION & OPERATION

WATER DISTRIBUTION SYSTEM

The water distribution system consists of an upper and lower spray arm, upper (spray) arm delivery tube, filter, soil director, pump, sump, and check ball. The system is designed to operate only one spray arm at a time. During the first wash and first and second rinses, only the lower spray arm operates. In the second wash, third and fourth rinses the spray arms alternate about every 90 seconds.

This alternating of the spray arms is achieved with a check ball located on a ramp between two outlets of the pump. There is an outlet to the bottom spray arm and an outlet to the upper arm delivery tube. In the normal position the ball is at the bottom of the ramp, in front of the opening to the upper arm delivery tube.



When the pump starts, the force of the water pushes the ball to block the opening to the upper arm delivery tube.



Not all of the water is blocked however. The opening is constructed to allow a small amount of water to bypass

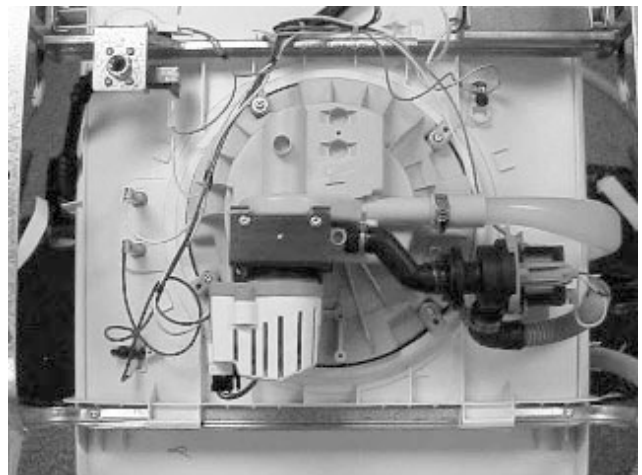
the ball and enter the tube, and fills the tube at a rate of approximately four inches a second. At the same time, the outlet to the lower spray arm is open, so the lower spray arm operates. When the pump stops, the pressure is removed from the ball and the water flows down the tube, forcing the ball up the ramp and against the outlet to the lower spray arm. If the pump remains off for more than 3 seconds, all the water in the tube escapes and the ball returns to the bottom of the ramp. But, if the pump is started in less than .6 seconds, the water from the upper arm delivery tube is still forcing the ball up the ramp against the outlet to the lower spray arm. The force of the water from the pump continues to hold the ball against the outlet to the lower spray arm which leaves the outlet to the upper arm delivery tube open. When the ball is in this position only the upper spray arm operates. This momentary stopping of the pump is controlled by a contact in the timer.

Another unique feature of the water distribution system is the two cavities of the sump. One cavity provides filtered water to the pump for recirculation through the spray arms. The other, called a quiet water cavity, allows soil to collect in the area of the macerator blade, where it is held until the drain pump removes it.

WATER DISTRIBUTION COMPONENTS

Wash Pump

The recirculation (wash) pump has three (3) functional parts, a 1/12th HP drive motor, impeller, and macerator blade. The pump circulates water at the rate of 12 gallons per minute. This pump is used only during the wash cycle, a separate pump is used during the drain cycle. The wash pump is to be replaced as a complete assembly.



Upper Spray Arm

The upper spray arm hangs from a bracket that is snapped to the upper rack. The water is supplied to the arm with a nozzle and funnel arrangement. The nozzle is located at the top of the tub and the funnel is located directly below it and directs water into the arm. All the spray jets but three face up.

Lower Spray Arm

The lower spray arm rotates on the lower spray arm support. It has two functions, washing the dishes and cleaning the filter. The jets located on the top of the arm clean the dishes and propel the arm. The three (3) jets located on the bottom of the arm are aimed to flush the soil on the filter toward the glass trap and soil director.



Lower Spray Arm With Collapsible Tower

The spray arm rotates 100% of the time with the tower assembly fully extended during the wash and rinse cycles. The arm has two functions; washing the dishes and cleaning the filter. The jets, located on the top of the arm, clean the dishes and propel the arm. The two jets located on the bottom of the arm are aimed to flush the soil on the filter toward the soil director.



Filter

Two types of filter materials are used, molded polypropylene and stainless steel, depending on the model.

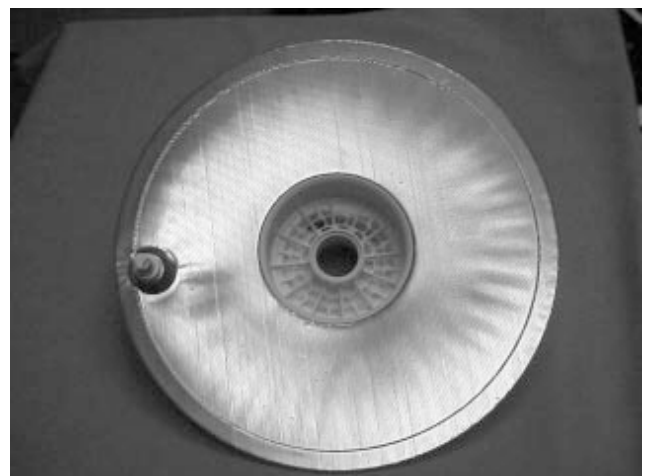
Polypropylene filter

This is a molded filter consisting of two parts; the filter, which covers the entire sump, plus an inner basket, which directs food soil to the drain portion of the pump. The inner basket can be constructed of fine polyester mesh or polypropylene around the sides of the basket. The bottoms of both baskets are open to allow the soil to enter the drain portion of the pump.



Stainless Steel Filter

The stainless steel filter covers the entire sump area with an inner basket of fine mesh polyester. The bottom of this basket is open to allow food soil to enter the drain portion of the pump.



Drain Pump

The only function of the drain pump is to remove water from the dishwasher. It is driven by a 1/25th HP drive motor. It consists of 3 function parts; a pump cover, impeller and armature, and stator. The pump only comes as an assembly. The pump cover can be removed for easy cleaning of the pump.



Drying System

The drying system on the dishwasher can employ one of three types of systems:

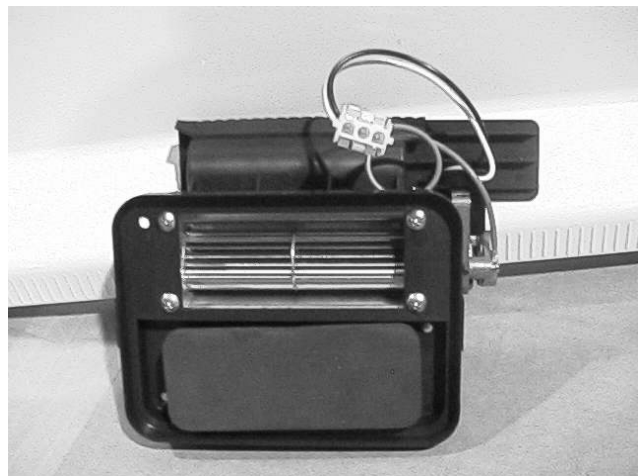
1. **Static Dry System** - The vent is located on the upper left-hand side of the door and is open at all times. This allows the warm, moist air to escape out the vent grill. Air is drawn into the dishwasher tub through the opening across the bottom of the door.
2. **Active Vent System** - The vent is closed up until the start of the dry cycle, at which time the vent is opened and the warm, moist air is allowed to escape. Also, the air is brought into the tub through the bottom of the door.
3. **Power Vent System** - This system is the same as the Active Vent System but with the addition of a blower motor. At the beginning of the dry cycle, the vent opens and a small motor with a centrifugal blower starts, accelerating the movement of air from the dishwasher.



Static Vent



Active Vent



Power Vent

The door vent actuator opens the vent only during the dry cycle. It is closed during all other cycles to minimize heat loss and to prevent noise from being transmitted into the kitchen.

DRYING SYSTEM COMPONENTS

Lower Vent Housing

The lower vent housing is located between the inner door assembly and control housing and is mounted to the inner door panel. It surrounds an opening in the inner door panel. The opening is covered with a moveable vent valve.

Vent Valve

The vent valve is a rectangular rubber covered pad slightly larger than the opening. The vent valve is attached to the vent actuator which is electrically operated.

Vent Actuator

The actuator is made up of a rod, slide, wax motor, and spring. The valve is attached to one end of the rod and the slide is inserted in the other. The spring pushes in on the slide forcing the rod to push the valve against the opening in the door panel.

When the timer enters the dry cycle, 120 VAC is applied to the wax motor. The wax motor is made up of a heating disk, wax chamber and piston. When voltage is applied to the heating disk, the wax in the chamber heats causing the wax to expand, driving the piston out. The piston forces the slide out causing the vent valve to open.

The vent actuator is replaced as a complete assembly. No individual replacement parts are available.

Blower

Models that feature *Fan Assisted Dry* use a small motor and centrifugal blower assembly which is mounted to the top section of the lower vent housing.

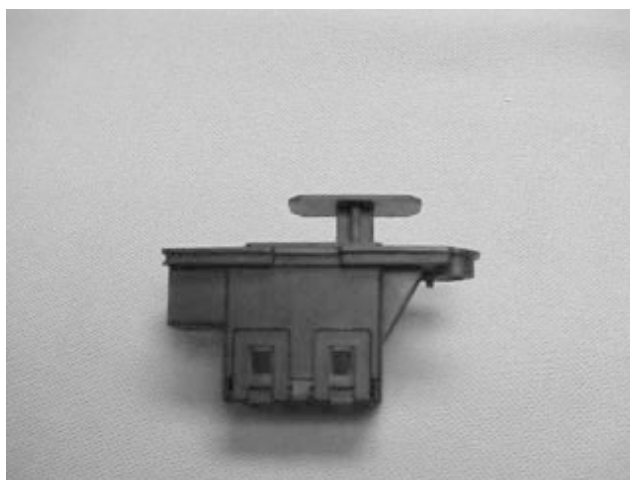
Upper Vent Housing

The upper vent Housing is screwed to the blower and directs air from the blower to the outlet in the console.

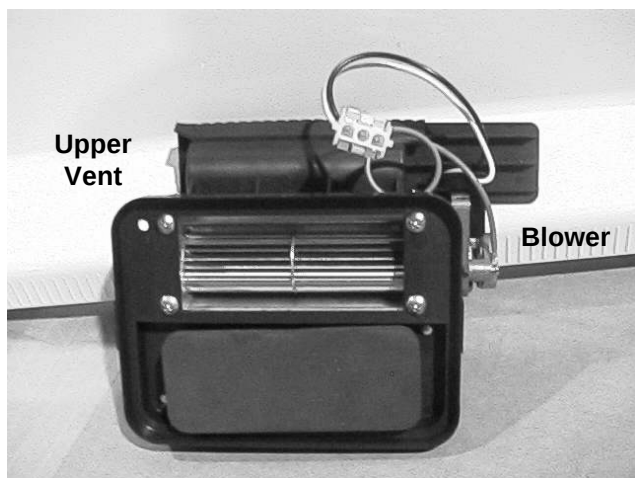
Models that do not have a blower use a different upper vent housing which connects directly to the lower vent housing.



Lower Vent Housing



Vent Actuator



Lower Vent



Vent Valve

DISPENSING SYSTEM

Detergent & Rinse Aid Dispenser

The detergent & rinse aid dispenser consists of two dispensers combined in one housing that are controlled with one wax motor actuator. The first time the actuator is energized in a cycle, it dispenses detergent. The second time the actuator is energized, it dispenses rinse aid. The amount of rinse aid dispensed can be adjusted from one to four (1 - 4) by using a pointer under the fill cap. The dispenser is replaced as a complete assembly. No individual replacement parts are available.

Dispenser Operation

The dispenser has two detergent cups:

1. A cup with a spring loaded cover with a manual or automatic release latch.
2. A cup formed in the inner door panel without a cover.

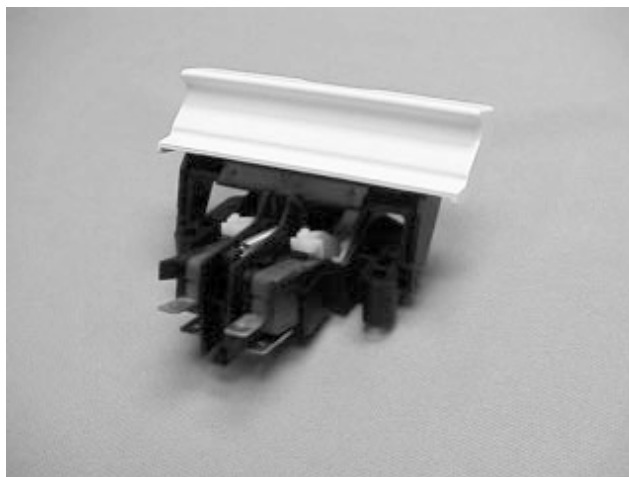
Prior to starting the dishwasher, detergent is added to the dispenser cup and the cover is latched close. The open cup is also filled but empties into the tub as soon as the door is lifted to the upright position.

The detergent in the covered cup is held until the start of the second wash. The timer then supplies 120 VAC to the dispenser actuator for one minute. It takes 30 seconds for the actuator to move the pivot arm far enough to release the cover. When power is applied to the actuator, the actuator plunger pushes the end of the pivot arm down. The pivot arm rotates on the shaft of the detergent dispenser door latch. As the shaft rotates, it turns the door latch, releasing the spring loaded cover.

The pivot arm is spring loaded so that when power is removed, it returns to the normal (horizontal) position. The other end of the pivot arm has a pin that moves in a slot(s) of the rinse injector pump arm. The rinse injector pump arm is slotted in such a way that when the actuator pushes the lever down the first time to release the detergent cup cover, the pin moves up but does not raise the rinse injector pump arm. When the timer removes power from the actuator, the spring forces the rinse injector pump arm end of the pivot arm down. The compound slot in the rinse injector pump arm directs the pivot arm pin down the front of the rinse injector pump arm and under a shorter slot in the center of the arm. When the timer reaches the middle of the final rinse cycle, it again applies 120 VAC to the dispenser actuator which forces the pivot arm up at the rinse injector end. As the pin engages the shorter slot, it raises the rinse injector pump arm which operates the pump. When the power is removed, the pivot arm spring forces the pin to the bottom of the slot. A leaf spring pushes the rinse injector pump arm to the left so that the pin returns to the original starting position.

DOOR LATCH ASSEMBLY

The door latch assembly has two functions; one is to lock the door in a closed position and the other is to operate the door switches.



The door latch assembly consists of the door handle, door handle bracket, door catch, door switch bracket, and door switches. The assembly is secured to the inner door panel with two locator pins and two screws. The panel is hidden by and accessed through the control panel.

When the door is closed, the door strike (mounted on the tub) forces the spring loaded catch to rotate back until the bottom of the catch clears the door handle bracket. At that time, the spring forces the door handle bracket to rotate. The bar at the top of the door handle rotates back under the door catch locking the door. The plunger on the bottom of the bracket rotates forward, closing the door switches.



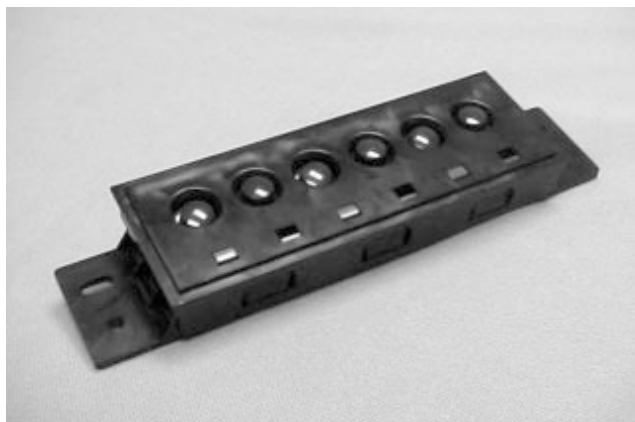
The door is released by lifting up on the door handle. When the handle is lifted up, the door handle bracket rotates in at the top, allowing the door catch to rotate open, and out at the bottom to open the door switches. When the catch is rotated to the open position, it holds the door handle bracket away from the door switches.

Selector Switch and Thermostats (Mechanical Timer Models)

Depending on the model, the selector switch could be a rocker selector switch with two selections or a push button selector switch with from two to eight buttons and consisting of from one to four switches.

Heated Dry

If the dishwasher has an option for "Heated Dry", this switch will be in series with the element. When the timer advances to the dry portion of the cycle, contacts will close to apply power to the heating element. When "ON" is selected, the contacts in the switch will be closed, applying power to the element. If "OFF" is selected, the contacts in the switch will be open.



Hi-Temp Wash

The selector switch has a selection for Hi-Temp Wash; the switch is in parallel with a thermostat mounted on the bottom of the tub and with a contact in the timer. The selector switch, temp assure thermostat, and the temp boost thermostat are all in series with the timer motor. Both thermostats are normally open thermostats. When the timer reaches the end of the second wash cycle, the contact in the timer supplying power to run the timer motor will open. At which time, if the selector switch for the Hi-Temp Wash has been selected, power to run the timer motor must come through the thermostats. The temperature of the water in the tub must rise to $137^{\circ} \pm 5^{\circ} \text{ F}$ for the thermostat to close and the timer motor to advance. If the water temperature is below $137^{\circ} \pm 5^{\circ} \text{ F}$, the timer will pause until the heating element raises the temperature of the water in the tub and allow the thermostat to close.

Hi-Temp Rinse

If the selector switch was a selection for a Hi-Temp rinse, the switch is in parallel with a thermostat mounted in the tub, and the contact in the timer, the same as the Hi-Temp wash. The operation for the Hi-Temp rinse will be the same as for the Hi-Temp wash with the exception, on some models, the temperature of the water in the tub will be $150^{\circ} \pm 5^{\circ} \text{ F}$ for the thermostat to close to give a sanitizing rinse.

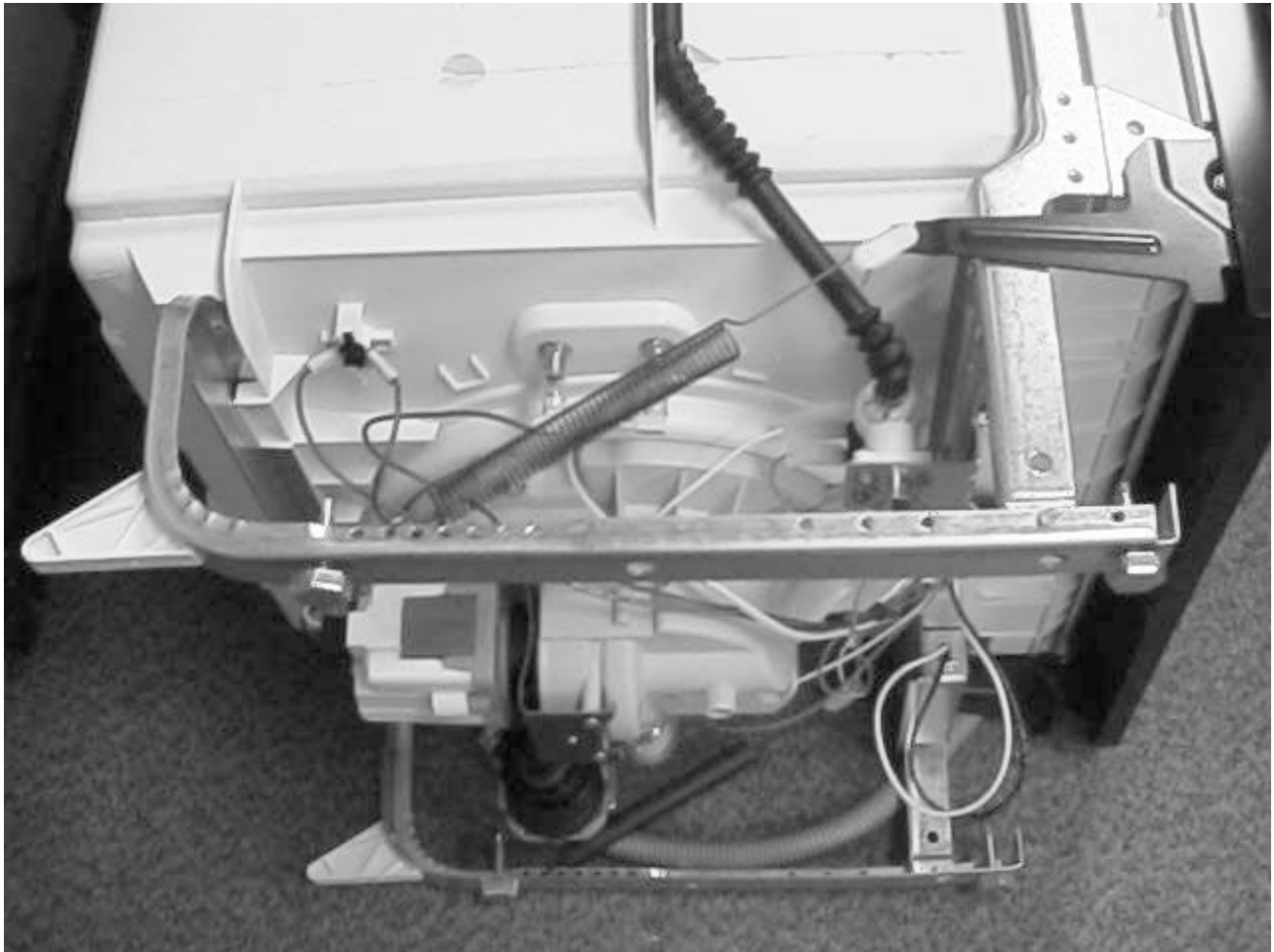
High Limit Thermostat

The High Limit Thermostat is mounted on the bottom of the tub in the left rear. This thermostat is a normally closed thermostat. It is used as a safety in the event of a component failure in the dishwasher. The thermostat will open at 200° F and will reset at 100° F .



DISHWASHER LEVELING

The dishwasher used four hex shaped leveling legs. They allow the dishwasher to be leveled to any type of flooring. The tops of the legs are tapered to 3/16" hex so a wrench or socket may be used to adjust the legs from the top of the leveler.



DISASSEMBLY

SAFETY PRECAUTIONS

Always turn off the electric power supply before servicing any electrical component, making ohmmeter checks, or making any parts replacement. Refer to safe servicing procedures at the front of this service manual before servicing the dishwasher.

All voltage checks should be made with a voltmeter having a full scale range of 130 volts or higher.

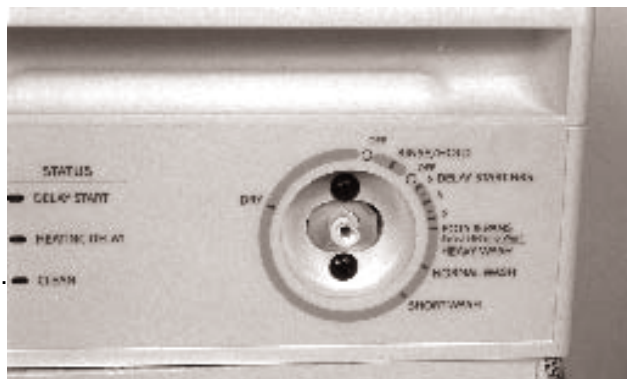
After service is completed, be sure all safety grounding circuits are complete, all electrical connections are secure, and all access panels are in place.

CONTROL PANEL - Mechanical Timer Models

1. Disconnect the dishwasher from electrical supply.
2. Remove six (6) Phillips screws from top of inner door panel.

TIMER

1. Disconnect dishwasher from electrical supply.
2. Pull timer knob off of timer shaft.
3. Remove control panel.
4. Remove two Phillips screws securing timer to control panel.



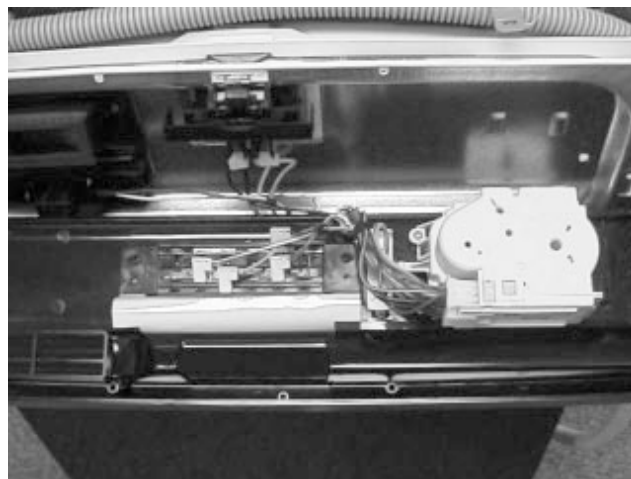
4. Unplug wiring harness plug connector to test or replace timer.
5. When replacing timer, be sure to transfer protective plastic covering to new timer.

DISASSEMBLY TIP

When removing the timer knob, slide a lightweight handkerchief between the timer knob and the control housing. Then work the handkerchief all the way around the backside of the knob. Then pull on the handkerchief, pulling the knob off from the rear.

SELECTOR SWITCH

1. Disconnect the dishwasher from electrical supply.
2. Remove control panel.
3. Remove two Phillips screws, one on each end and lift off switch.

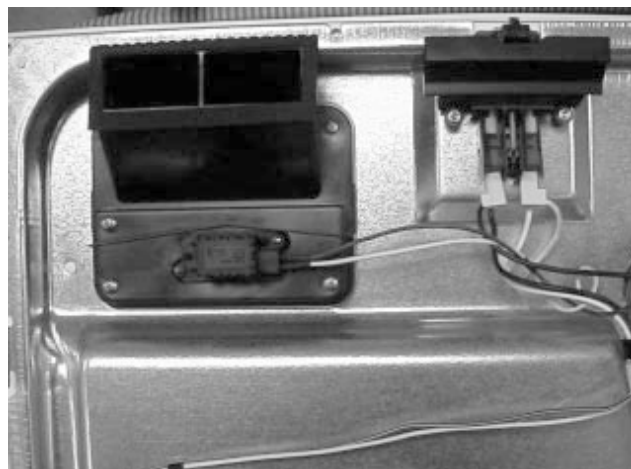


DOOR PANELS - All Models

1. Disconnect dishwasher from electrical supply.
2. The outer door panel is held to the inner door panel with two locking tabs and two screws. Loosen two lower screws securing control panel.
3. Remove two screws securing door panel to door (located at the lower section of the inner door panel).
4. Slide door panel down and outward to remove.

DOOR VENT ASSEMBLY

1. Disconnect dishwasher from electrical supply.
2. Remove outer door panel.
3. Remove control panel.
4. Disconnect wiring to blower motor and vent actuator.
5. Remove four Phillips screws securing vent to inner door panel.



VENT VALVE

1. Disconnect the dishwasher from electrical supply.
2. Remove outer door panel.
3. Remove control panel.
4. Slide the vent valve upward to remove from the actuator arm.



VENT ACTUATOR

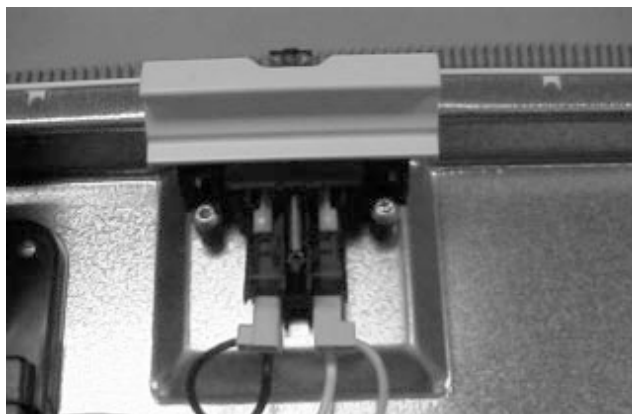
1. Remove the door vent assembly..
2. Remove vent valve.
3. Remove two Phillips screws. Slide actuator from vent housing.

VENT BLOWER

1. Remove the door vent assembly.
2. Remove the two (2) screws securing the top vent piece.
3. Remove the four (4) screws securing the lower vent to the blower motor.

DOOR LATCH ASSEMBLY

1. Disconnect dishwasher from electrical supply.
2. Remove outer door panel.
3. The door latch is held to the inner door panel with two screws and two locator pins. Remove screws and pull to remove.



DETERGENT / RINSE AID DISPENSER

1. Disconnect dishwasher from electrical supply.
2. Remove outer door panel.
3. Disconnect wiring.
4. Remove six Phillips screws and carefully push dispenser into tub.



INNER DOOR PANEL

1. To replace inner door panel, remove control panel, door vent, dispenser and latch.
2. Remove two bolts (T-25 TORX®) from each hinge and lift off.
3. Remove two bolts and nuts holding "C" arms to inner door panel.

DOOR SEAL

1. To remove seal, lift one end and pull entire seal out.
2. To replace or reinstall seal, center white mark on back of seal into center top of seal recess and press seal into place.
3. Go to bottom and form seal into seal recess making the "L" in the tub. Repeat for remaining side.
4. Push seal into recess in 5 places up one side to center top. Repeat for remaining side.
5. Close door and let door set seal into recess.

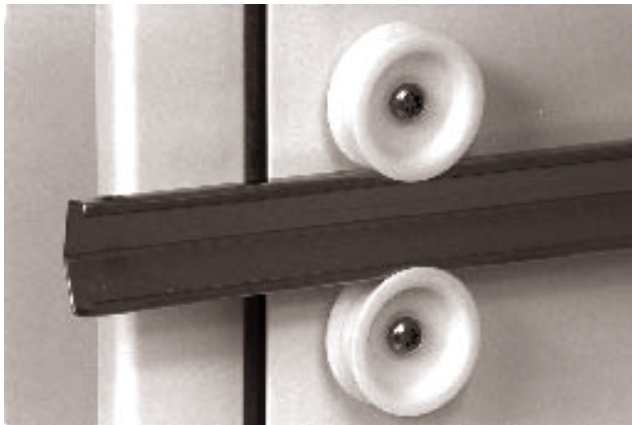


UPPER RACK

1. To remove rack, unsnap and remove retainers at end of metal track. Once retainers are removed, pull rack straight out.



2. Each rack roller is secured with a T-25 TORX® bolt.



UPPER WATER TUBE

1. To remove upper water tube, press in on top of two clips and lift up.



UPPER SPRAY ARM

1. To remove upper spray arm, unscrew plastic nut securing it to support.

WATER DISTRIBUTOR

1. The water distributor (nozzle) is screwed to the top of the upper arm delivery tube. A rubber seal is used on the top side of the tub to eliminate leaks.
2. Water distributor (nozzle) is a right-hand thread that screws counterclockwise.



KICK PLATE

1. To remove kick plate and insulation (some models) remove two Phillips screws and pull out on bottom of kick plate.

HEATING ELEMENT

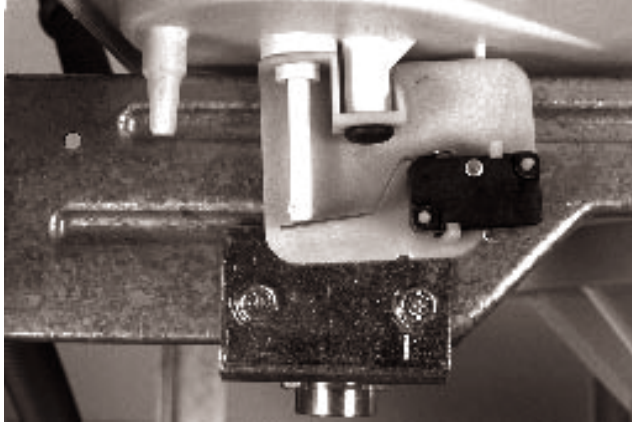
1. Disconnect dishwasher from electrical supply.
2. To remove element, disconnect wiring and remove two element mounting nuts.



3. Lift terminal ends of element into tub and rotate element sideways, out of retainers.

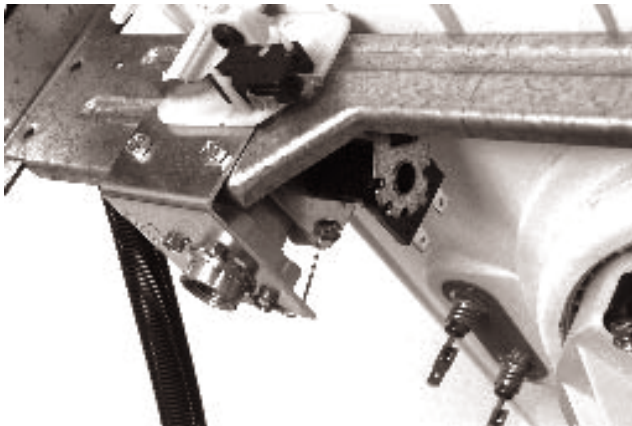
FLOAT SWITCH AND BRACKET

1. Disconnect dishwasher from electrical supply.
2. To remove float switch bracket, remove outer door panel, kick plate, and wires to float switch. A single Phillips screw secures the bracket to the tub.
3. Remove float switch by spreading mounting clips.



WATER VALVE

1. Disconnect dishwasher from electrical supply.
2. Remove outer door panel, kick plate, and wires.
3. Water valve is secured with two 5/16" hex screws.



DRAIN PUMP

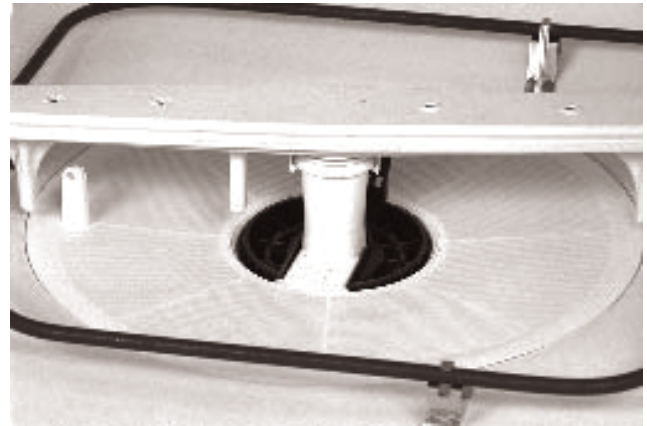
1. Disconnect dishwasher from electrical supply.
2. Remove outer door panel and kick plate.
3. Remove hoses and wiring to drain pump.
4. Remove two screws securing drain pump to mounting bracket.
5. Front housing can be removed by lifting lock tab and turning housing counterclockwise about 45° and lifting off.

LOWER SPRAY ARM

1. To remove lower spray arm, pull out on retaining clips and lift up.

GLASS TRAP

1. To remove glass trap, lift handle up and raise trap up and out of sump.



LOWER SPRAY ARM SUPPORT

1. To remove lower spray arm support, remove spray arm and glass trap, then turn support 90° clockwise and lift up.



FILTER

1. To remove filter, remove glass trap, spray arm and spray arm support. Lift filter up to remove.



3. Remove two T-20 TORX® screws on bottom of bracket.
4. Place flat blade screwdriver between bracket and sump, then lift bracket out of sump.

MOTOR AND IMPELLER

1. Disconnect dishwasher from electrical supply.
2. To remove motor, remove pump housing, motor mounting bracket, and pump cover.



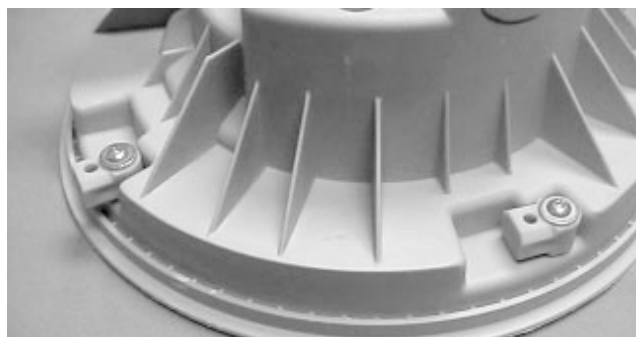
3. Place large screwdriver between housing and impeller and force impeller and motor out of housing. **DO NOT ROCK MOTOR TO RELEASE.** Lubricate with Vaseline® when reinstalling.

PUMP AND MOTOR ASSEMBLY

1. To remove pump and motor assembly, disconnect dishwasher from electrical supply. Remove glass trap, spray arm, spray arm support and filter.
2. Remove outer door panel and kick plate.
3. Disconnect delivery tube and sump drain hose.
4. Pump and motor assembly is secured in place using four retainers that rotate easily. Turn retainers 90° and lift assembly from inside of tub.
5. Remove electric wires from motor.

MOTOR MOUNTING BRACKET

1. Disconnect dishwasher from electrical supply.
2. To remove motor and motor mounting bracket, first remove pump and motor assembly.



THERMOSTATS

1. Disconnect dishwasher from electrical supply.
2. To remove either thermostat, remove outer door panel and kick plate.
3. Thermostats are located behind electrical junction box. To remove thermostat, loosen single Phillips screw, turn retainer, and drop thermostat from tub.
4. Remove wire from thermostat.

NOTE: When reinstalling thermostats, apply thermal mastic to the face of the thermostat.



HIGH LIMIT THERMOSTAT (ON TUB BOTTOM)

1. Disconnect dishwasher from electrical supply.
2. Disconnect wires from thermostat and remove single Phillips screw.
3. Determine failure causing high limit thermostat to open before replacing.



INDICATOR LAMPS - Mechanical Timer Models

1. Disconnect dishwasher from electrical supply.
2. To remove an indicator lamp, drop control panel and rotate indicator. Lift out of mounting bracket.

NOTE: Indicators are part of the wiring harness and are not available separately.

TROUBLESHOOTING TIPS

SYMPTOM	CHECK THE FOLLOWING	REMEDY
Dishwasher will not operate when turned on.	1. Fuse (blown or tripped). 2. 120 VAC supply wiring connection faulty. 3. Motor (inoperative, check resistances). 4. Door Switch (open contacts). 5. Door latch not making contact with door switch.	1. Replace fuse or reset breaker. 2. Repair or replace wire fasteners at dishwasher junction box. 3. Replace motor / impeller assembly. 4. Replace door switch. 5. Replace latch assembly.
Motor hums but will not start or run.	1. Motor (bad bearings or locked rotor). 2. Motor stuck due to prolonged non-use. 3. Motor fan blocked.	1. Replace motor. 2. Rotate motor fan or impeller. 3. Check/clear fan area.
Motor trips out on internal thermal overload protector.	1. Improper voltage. 2. Seal faces binding. 3. Motor windings shorted. 4. Glass or foreign items in pump.	1. Check voltage. 2. Rotate motor fan or impeller, or replace. 3. Replace motor/pump assembly. 4. Clean and clear blockage.
Dishwasher runs but will not heat.	1. Hi-limit thermostat open. 2. Heater element (open). 3. Wiring or terminal defective.	1. Replace thermostat. 2. Replace heater element. 3. Repair or replace.
Detergent cover will not latch or open.	1. Excess detergent on lid catch. 2. Latch mechanism defective. 3. Wiring or terminal defective. 4. Broken spring(s). 5. Defective actuator.	1. Clean catch area. 2. Replace dispenser. 3. Repair or replace. 4. Replace dispenser. 5. Replace actuator.
Dishwasher will not pump out.	1. Drain restricted. 2. Defective drain pump. 3. Air lock in drain hose. 4. Blocked impeller. 5. Open windings. 6. Wiring or terminal defective.	1. Clear restrictions. 2. Replace pump. 3. Drain hose must slope upward to side of tub. Hose must be attached on side of tub. 4. Check for blockage and clear. 5. Replace windings. 6. Repair or replace.

SYMPTOM	CHECK THE FOLLOWING	REMEDY
Dishwasher will not fill with water.	1. Water supply turned off. 2. Defective water inlet valve. 3. Check fill valve screen for obstructions. 4. Defective float switch. 5. Wiring or terminal defective. 6. Float stuck in "UP" position.	1. Turn water supply on. 2. Replace water inlet fill valve. 3. Disassemble and clean screen. 4. Repair or replace. 5. Repair or replace. 6. Clean float.
Dishwasher water siphons out.	1. Drain hose not connected to side of tub. 2. Drain hose (high) loop too low. 3. Drain line connected to a floor drain not vented.	1. Reattach drain hose. 2. Repair to proper height. 3. Install air gap at counter top.
Detergent left in dispenser.	1. Detergent allowed to stand too long in dispenser. 2. Dispenser wet when detergent was added. 3. Detergent cover held closed or blocked by large dishes. 4. Improper incoming water temperature to properly dissolve detergent. 5. See "Detergent Cover Will Not Open."	1. Instruct customer/user. 2. Instruct customer/user. 3. Instruct customer/user on proper loading of dishes. 4. Incoming water temperature of 120°F is required to properly dissolve dishwashing detergent.

APPENDIX A

Exploded Views Location Chart

Model Number	Control Panel	Door	Tub	Motor & Pump	Frame	Racks
FDB125RH*2	A - 9	A - 17	A - 20	A - 23	A - 29	A - 35
FDB345LF*2	A - 10	A - 18	A - 20	A - 24	A - 29	A - 32
FDB421RF*6	*	*	*	*	*	*
FDB421RF*7	*	*	*	*	*	*
FDB435RFR*6	*	*	*	*	*	*
FDB435RFS*4	*	*	*	*	*	*
FDB634CF*4	A - 11	A - 18	A - 20	A - 24	A - 29	A - 32
FDB635RF*6	A - 11	A - 18	A - 20	A - 24	A - 29	A - 32
FDB641RA*0	*	*	*	*	*	*
FDB641RJ*1	*	*	*	*	*	*
FDB657RJ*1	*	*	*	*	*	*
FDB658RA*0	*	*	*	*	*	*
FDP635RF*5	A - 11	A - 18	A - 19	A - 24	A - 25	A - 32
FDP641RA*0	*	*	*	*	*	*
GLDB653A*0	*	*	*	*	*	*
GLDB653J*2	A - 11	A - 17	A - 20	A - 24	A - 29	A - 32
GLDB656J*1	A - 3	A - 17	A - 20	A - 24	A - 29	A - 33
GLDB756A*0	*	*	*	*	*	*
GPDB698J*1	A - 6	A - 16	A - 20	A - 24	A - 30	A - 34
MDB122RF*2	A - 14	A - 18	A - 20	A - 24	A - 27	A - 31
MDB124BA*0	*	*	*	*	*	*
MDB124BJ*1	A - 14	A - 17	A - 20	A - 24	A - 27	A - 31
MDB124BH*1	A - 14	A - 17	A - 20	A - 24	A - 27	A - 31
MDB125RH*2	A - 9	A - 17	A - 20	A - 23	A - 29	A - 35
F71C12PH*1	*	*	*	*	*	*
F7C24RJ*1	*	*	*	*	*	*
ADW350RA*0	A - 5	A - 15	A - 20	A - 21	A - 28	A - 31
ADW350RA*1	A - 12	A - 17	A - 20	A - 24	A - 27	A - 31

* Information not available - Parts Catalogs not created as of this Publication date

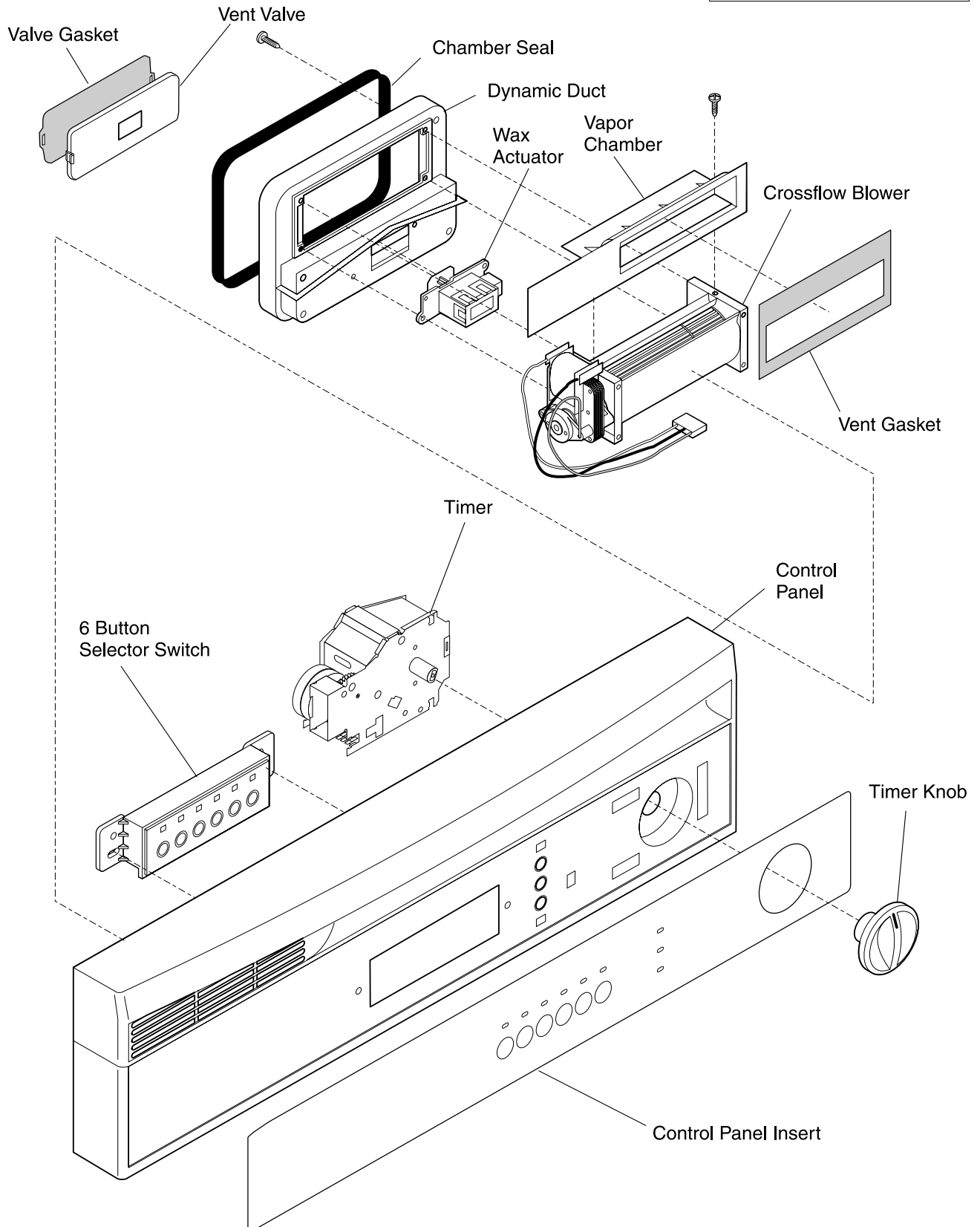
APPENDIX A (continued)

Exploded Views Location Chart

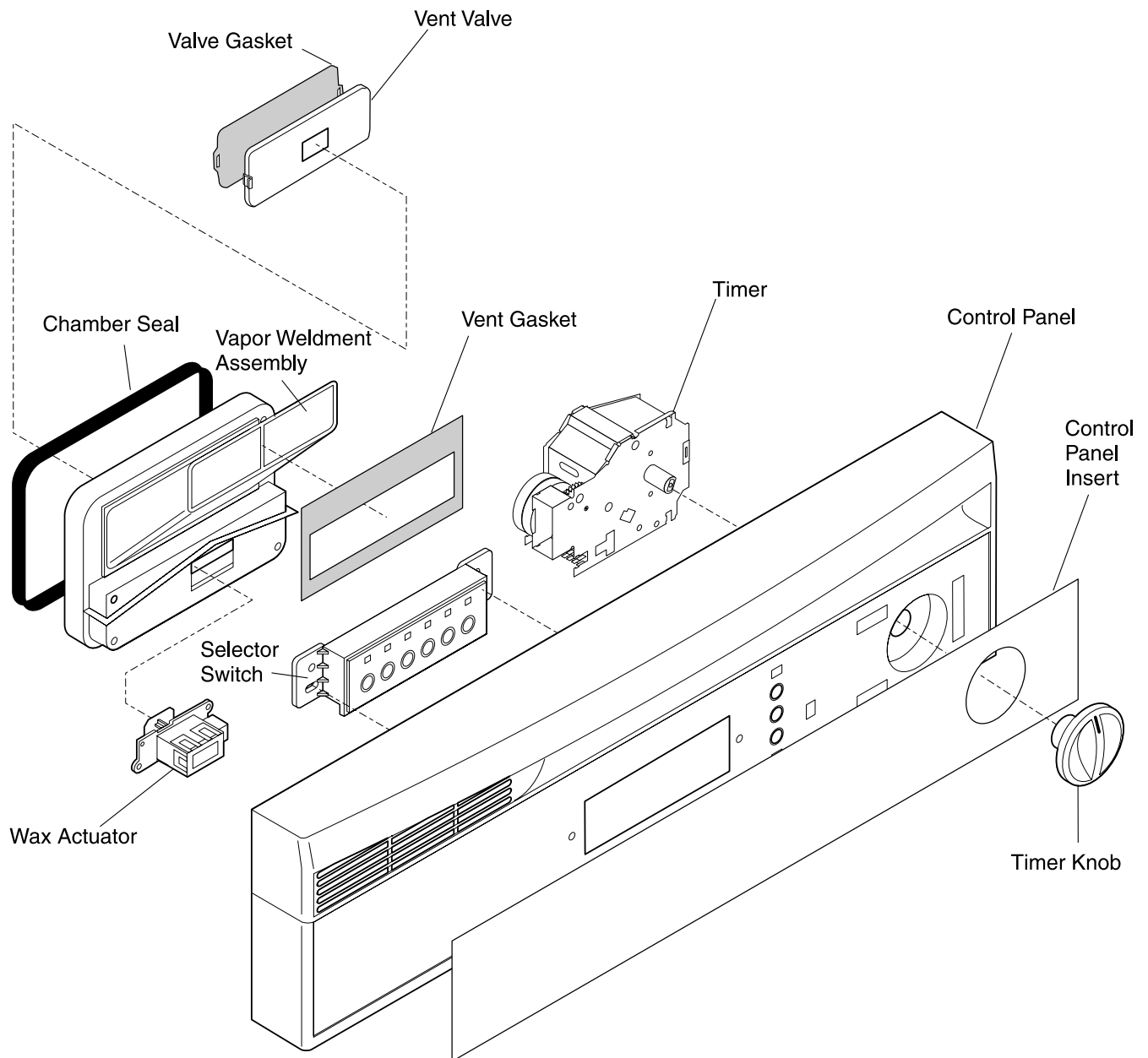
Model Number	Control Panel	Door	Tub	Motor & Pump	Frame	Racks
ADW550RA*0	A - 7	A - 15	A - 20	A - 21	A - 28	A - 32
ADW550RA*1	A - 13	A - 17	A - 20	A - 24	A - 30	A - 32
ADW650RA*0	A - 7	A - 15	A - 20	A - 21	A - 28	A - 33
ADW650RA*1	A - 7	A - 17	A - 20	A - 24	A - 28	A - 33
ADW650RA*2	A - 13	A - 17	A - 20	A - 21	A - 30	A - 33
GDP635RH*2	A - 11	A - 18	A - 19	A - 24	A - 25	A - 32
GDB742RJ*0	A - 8	A - 19	A - 20	A - 22	A - 26	A - 31
GDB742RJ*1	*	*	*	*	*	*
GDB755RJ*0	A - 4	A - 17	A - 20	A - 22	A - 26	A - 32
GDB755RJ*1	A - 13	A - 17	A - 20	A - 24	A - 27	A - 32

* Information not available - Parts Catalogs not created as of this Publication date

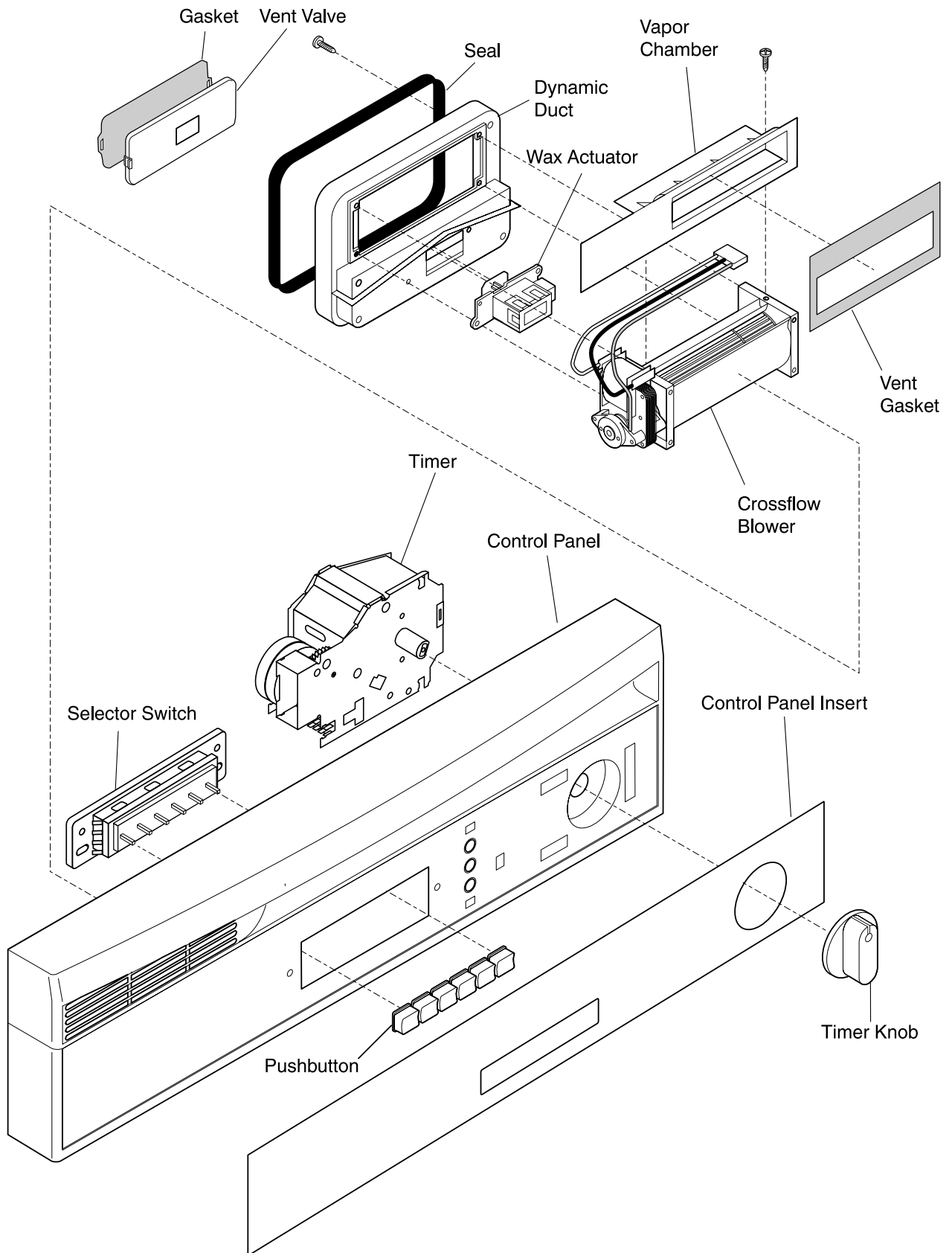
CONTROL PANEL
For Model #
GLDB656J*1



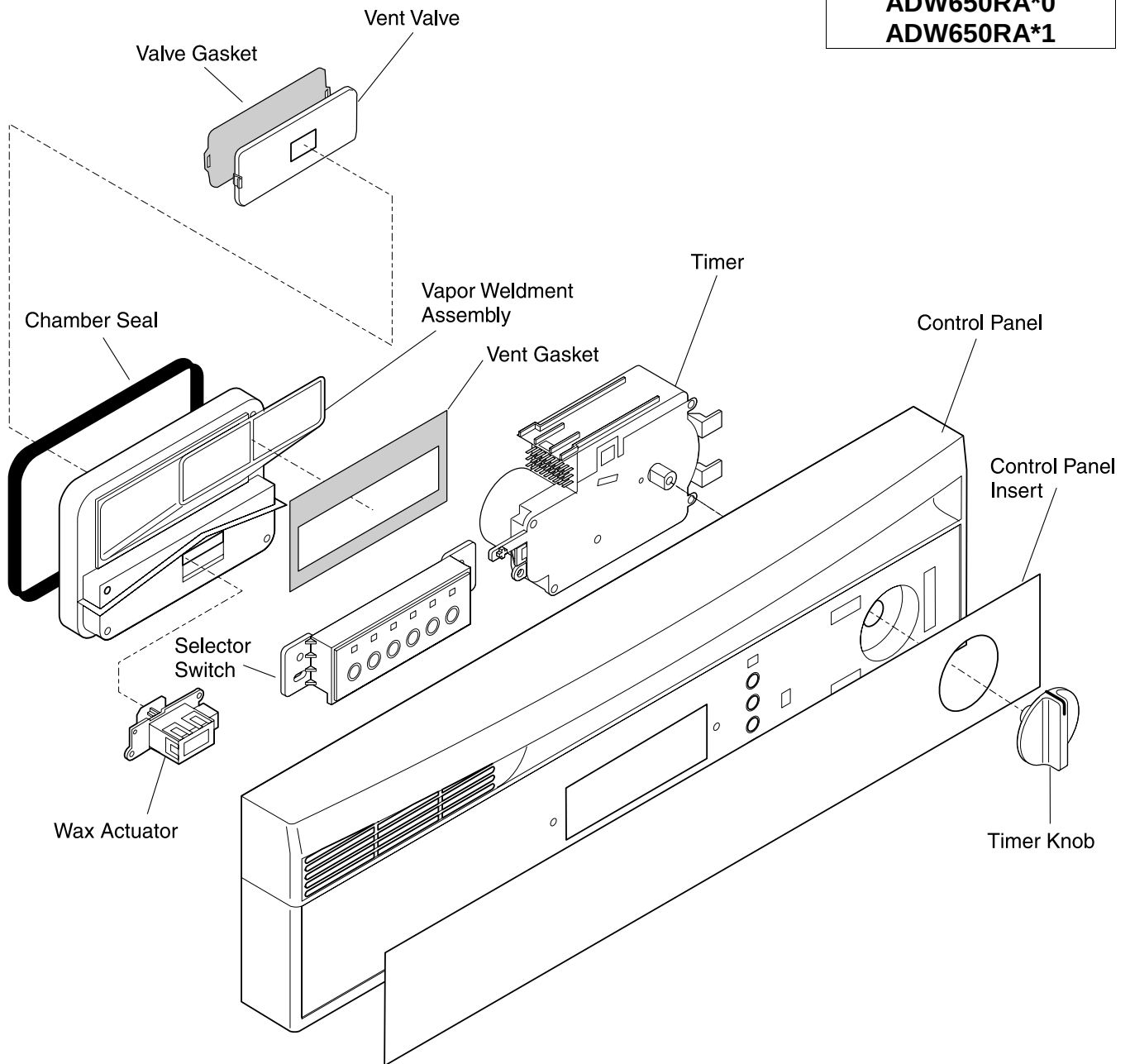
CONTROL PANEL
For Model #
GDB755RJ*0



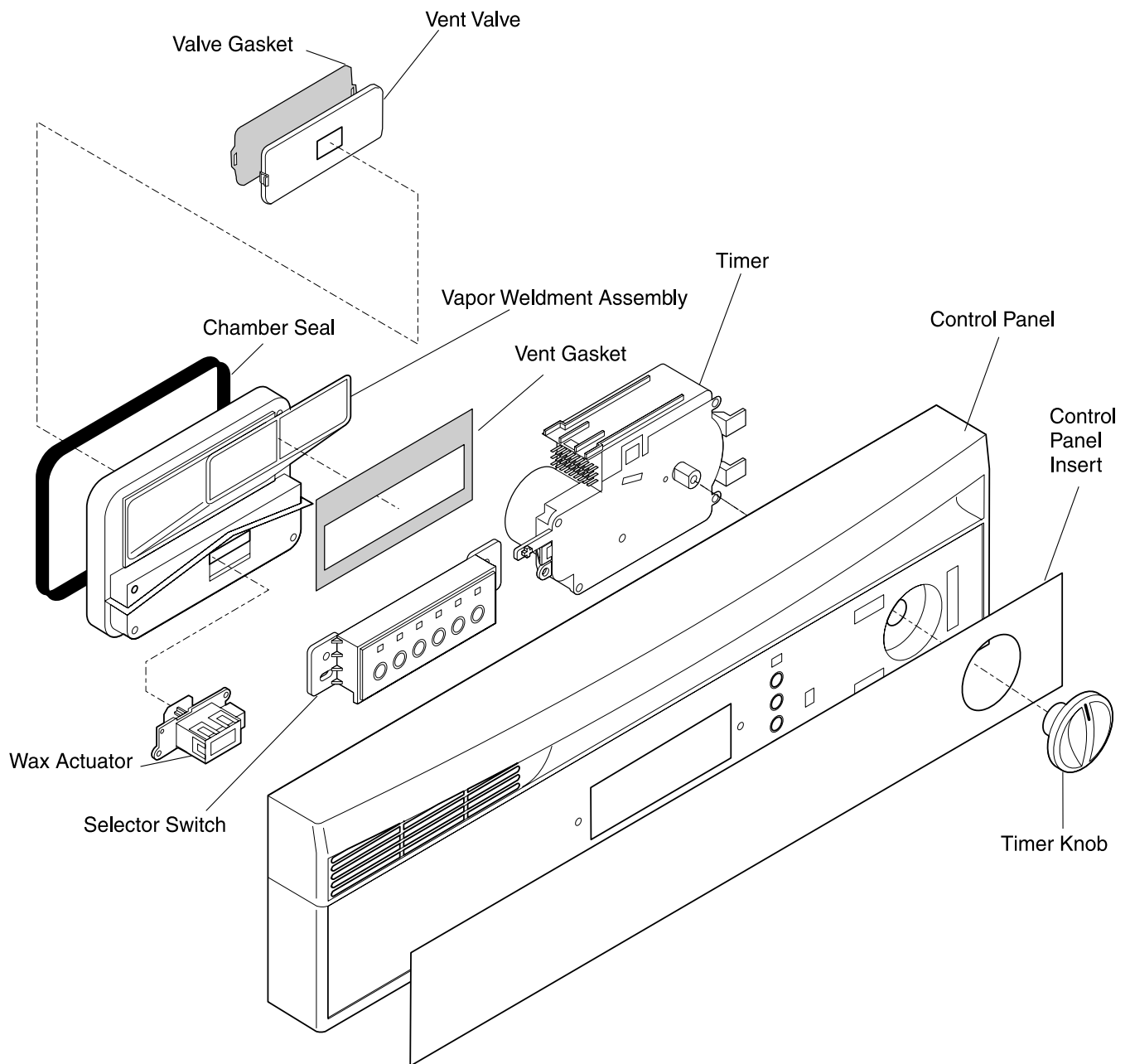
CONTROL PANEL
For Model #
GPDB698RJ*1



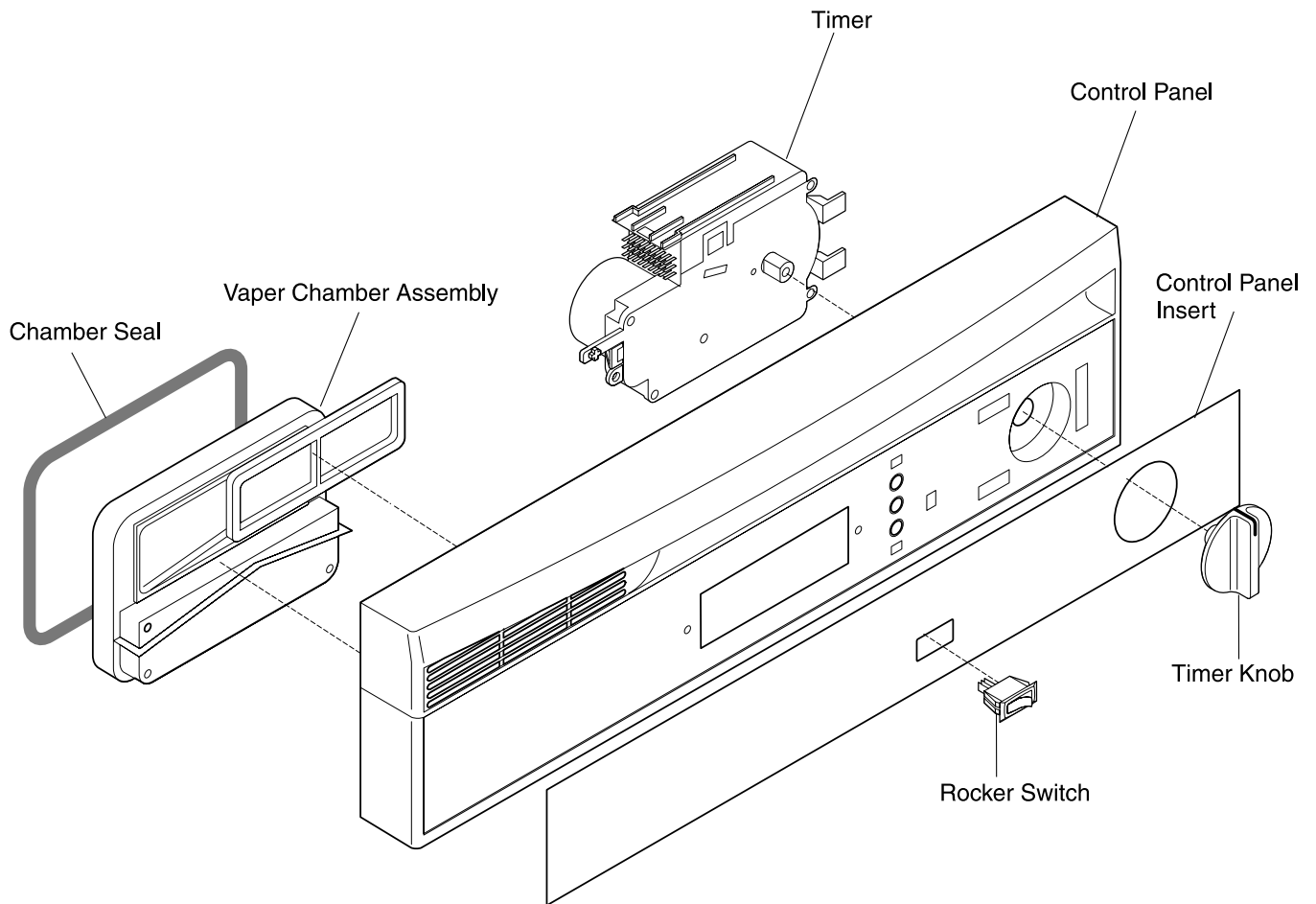
CONTROL PANEL
For Model #'s
ADW550RA*0
ADW650RA*0
ADW650RA*1



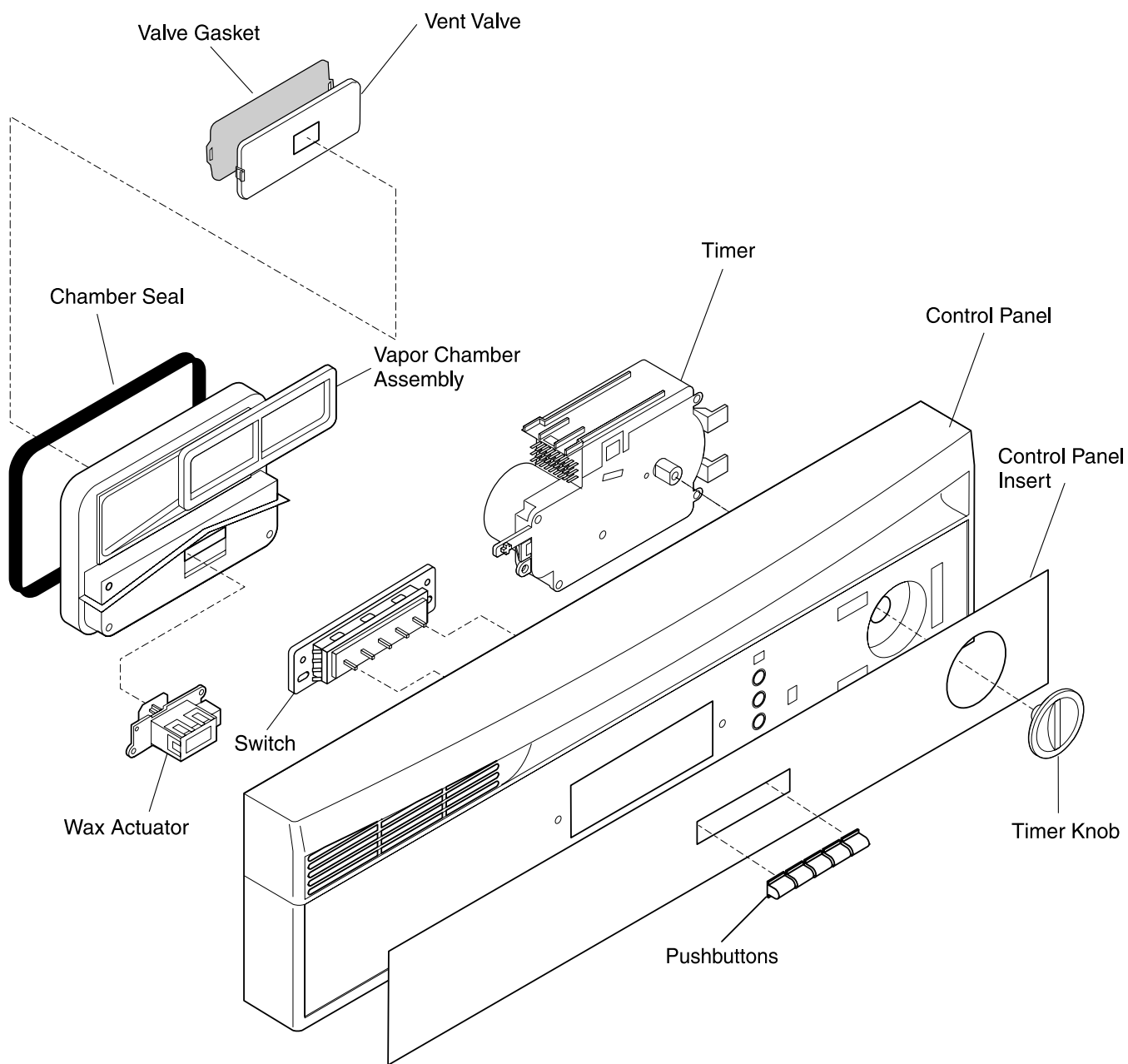
CONTROL PANEL
For Model #
GDB742RJ*0



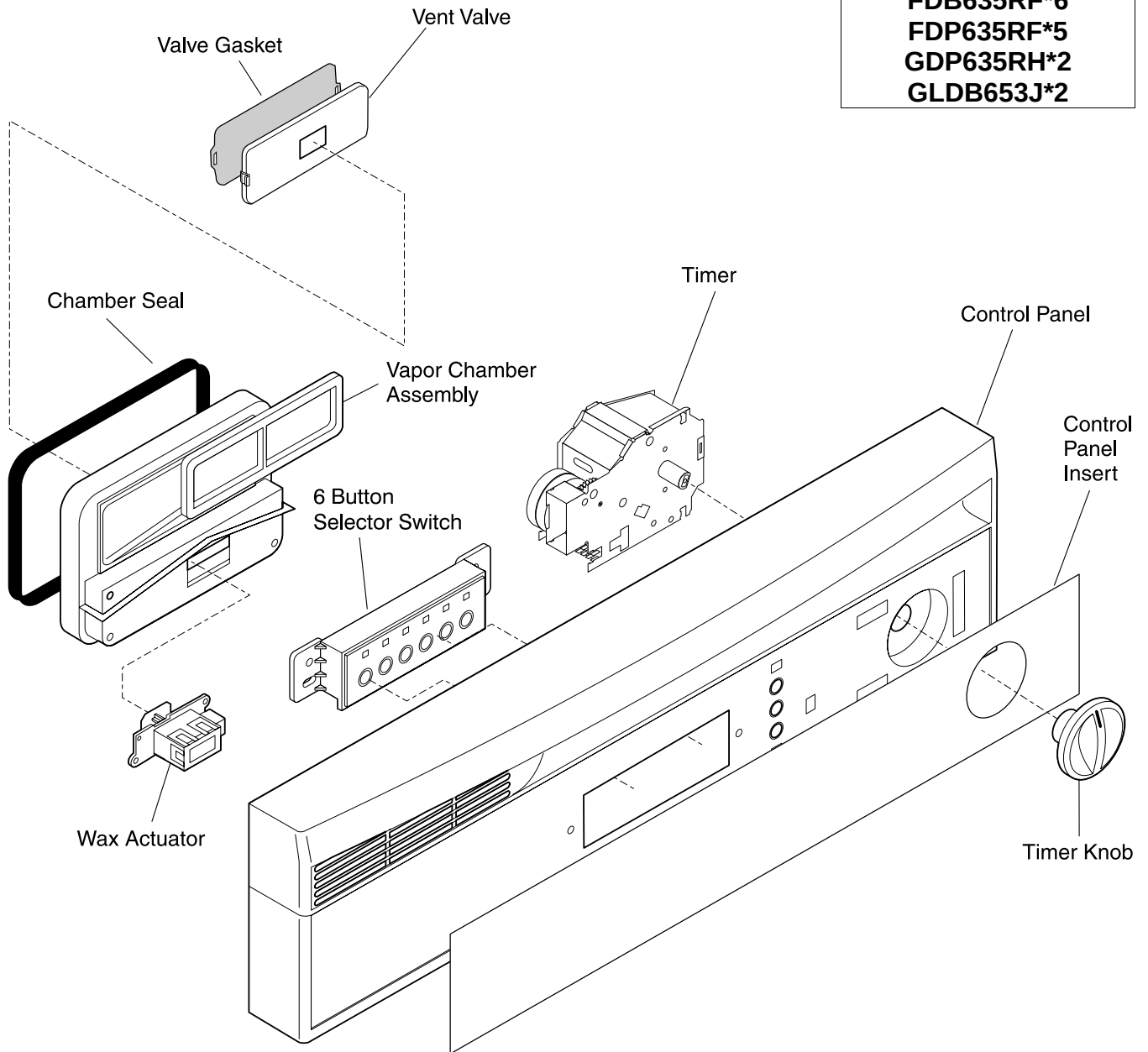
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For Model #'s
FDB125RH*2
MDB125RH*2



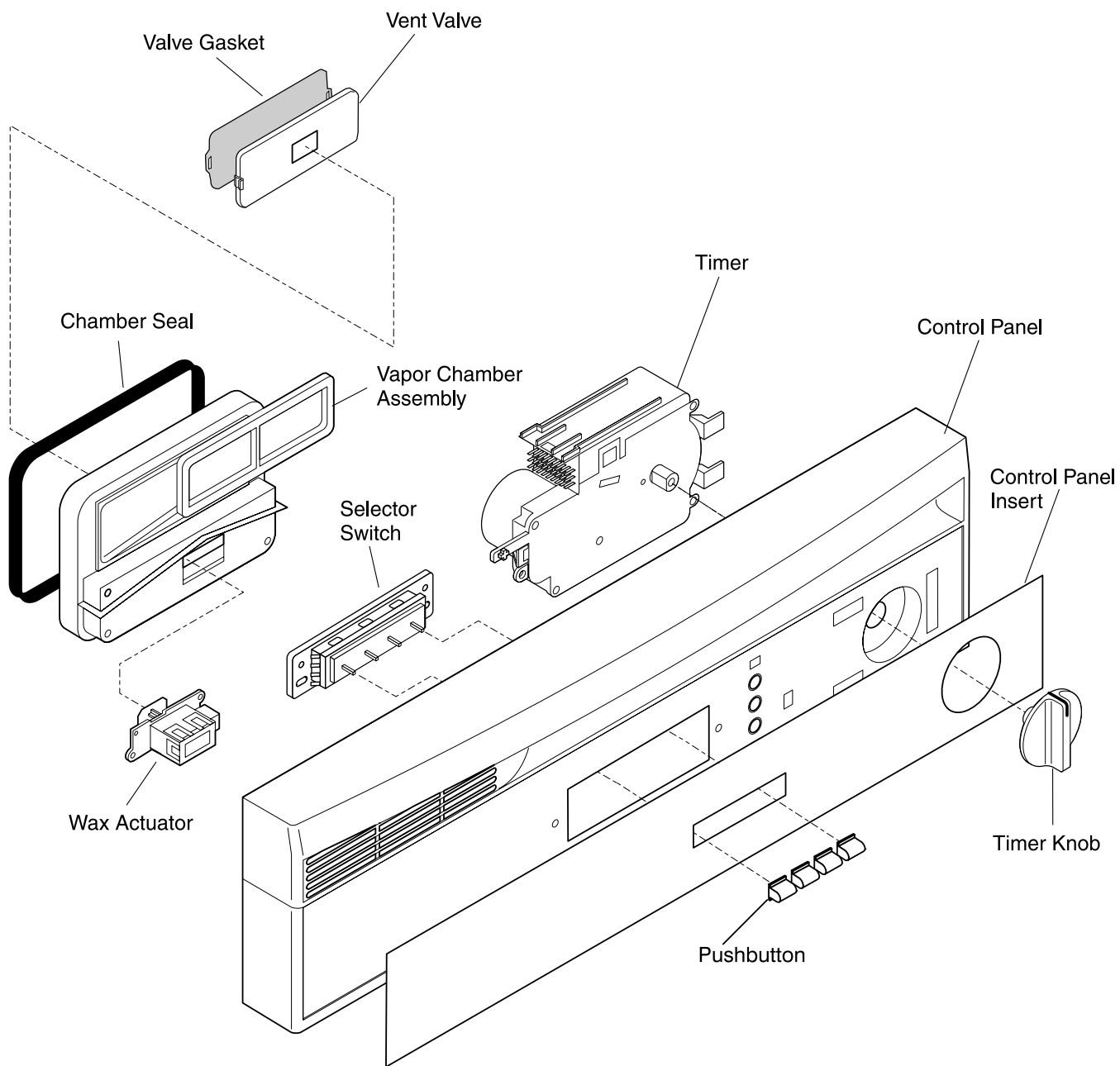
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For Model #
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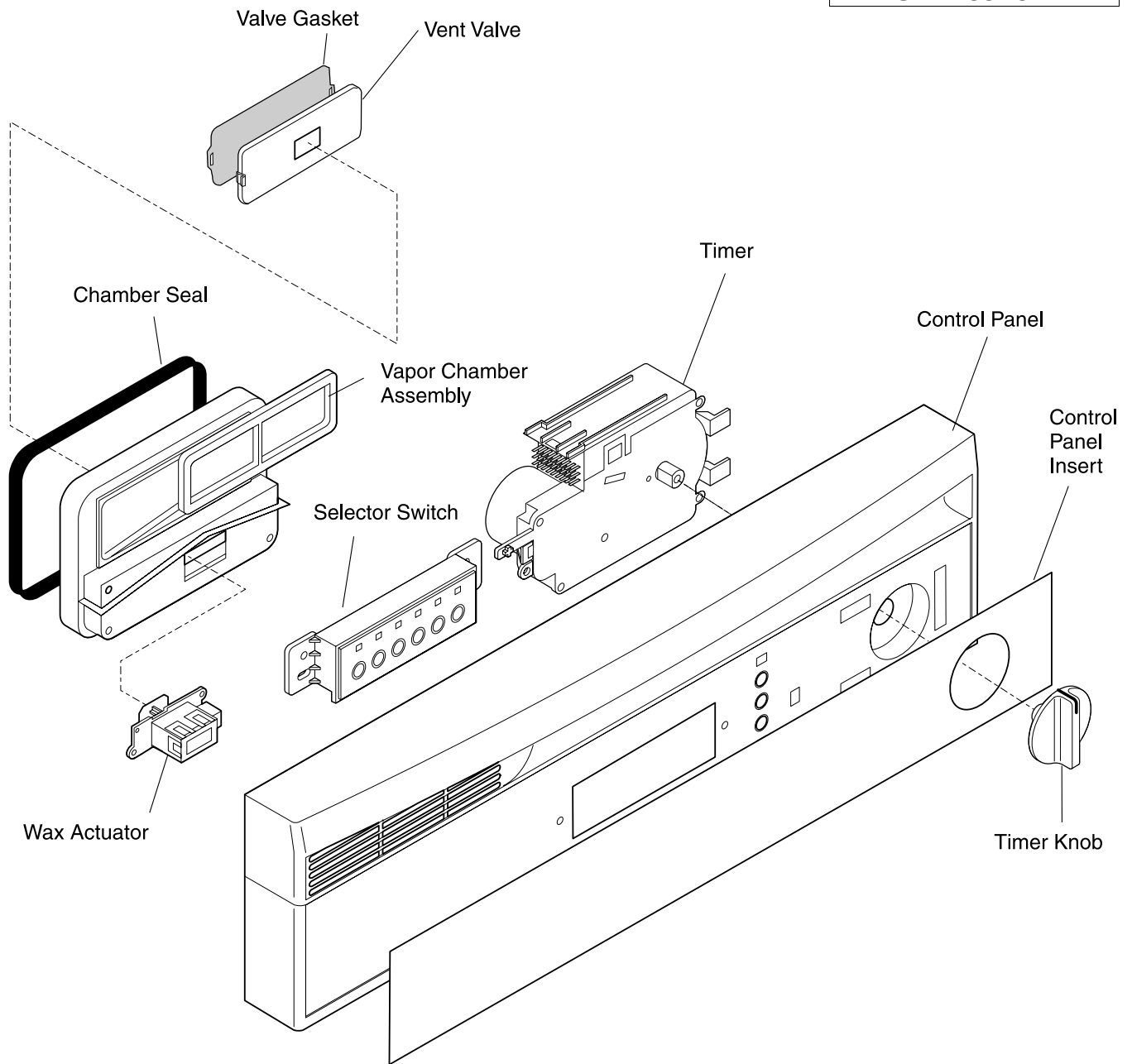
CONTROL PANEL
For Model #'s
FDB634CF*4
FDB635RF*6
FDP635RF*5
GDP635RH*2
GLDB653J*2



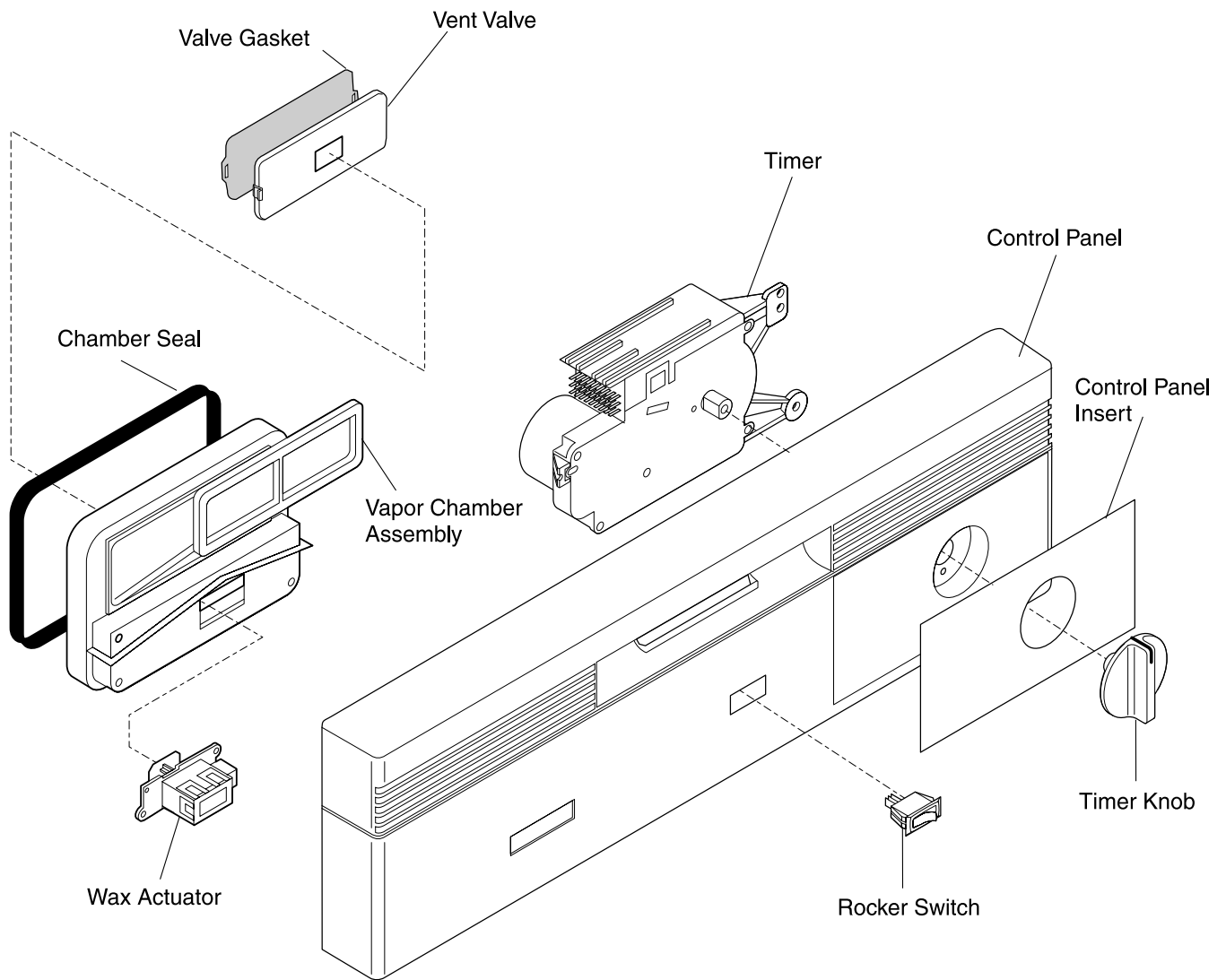
CONTROL PANEL
For Model #
ADW350RA*1



CONTROL PANEL
For Model #'s
ADW550RA*1
ADW650RA*2
GDB755RJ*1



CONTROL PANEL
For Model #'s
MDB122RF*2
MDB124BJ*1
MDB124BH*1



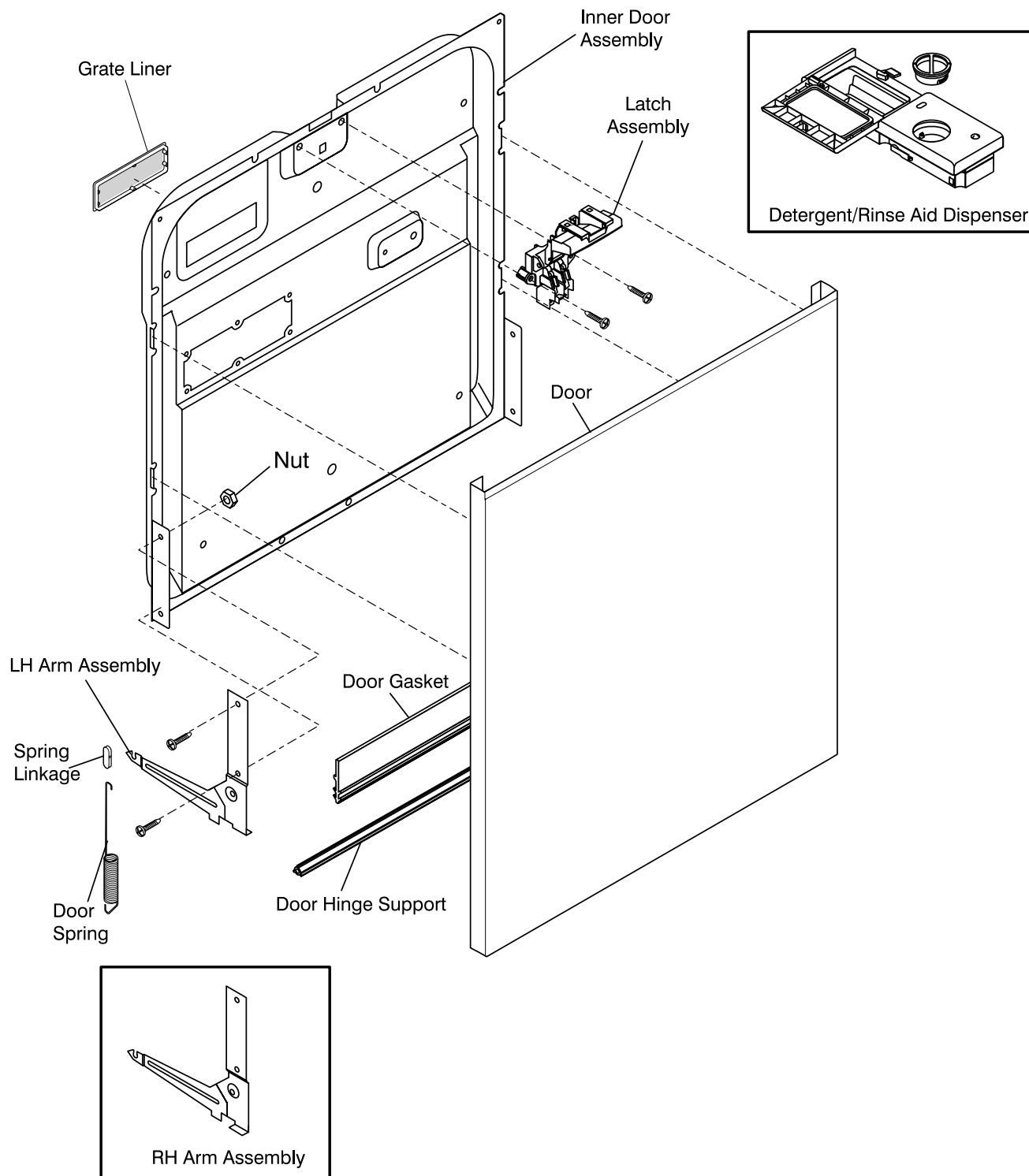
DOOR

For Model #'s

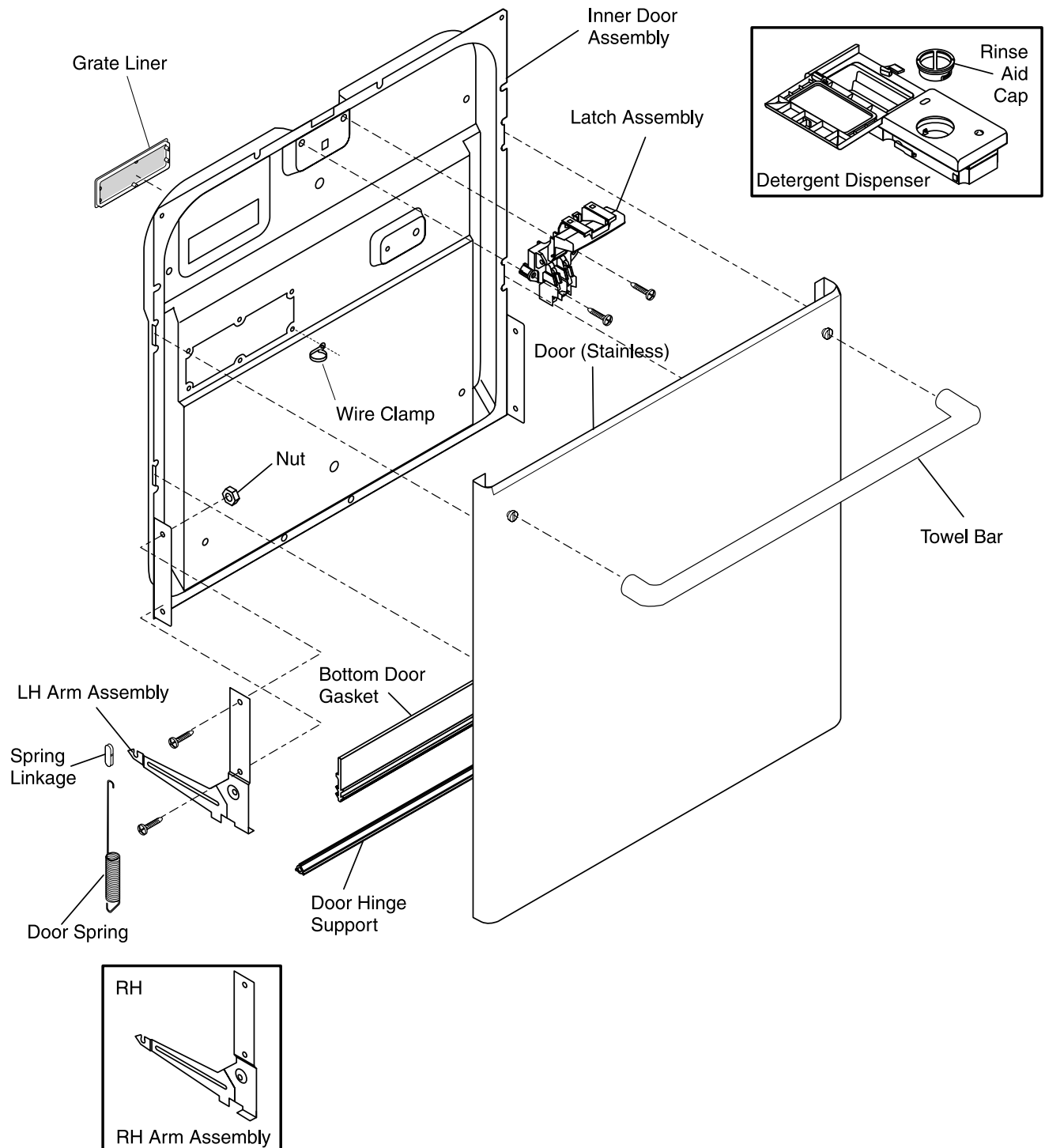
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ADW550RA*0

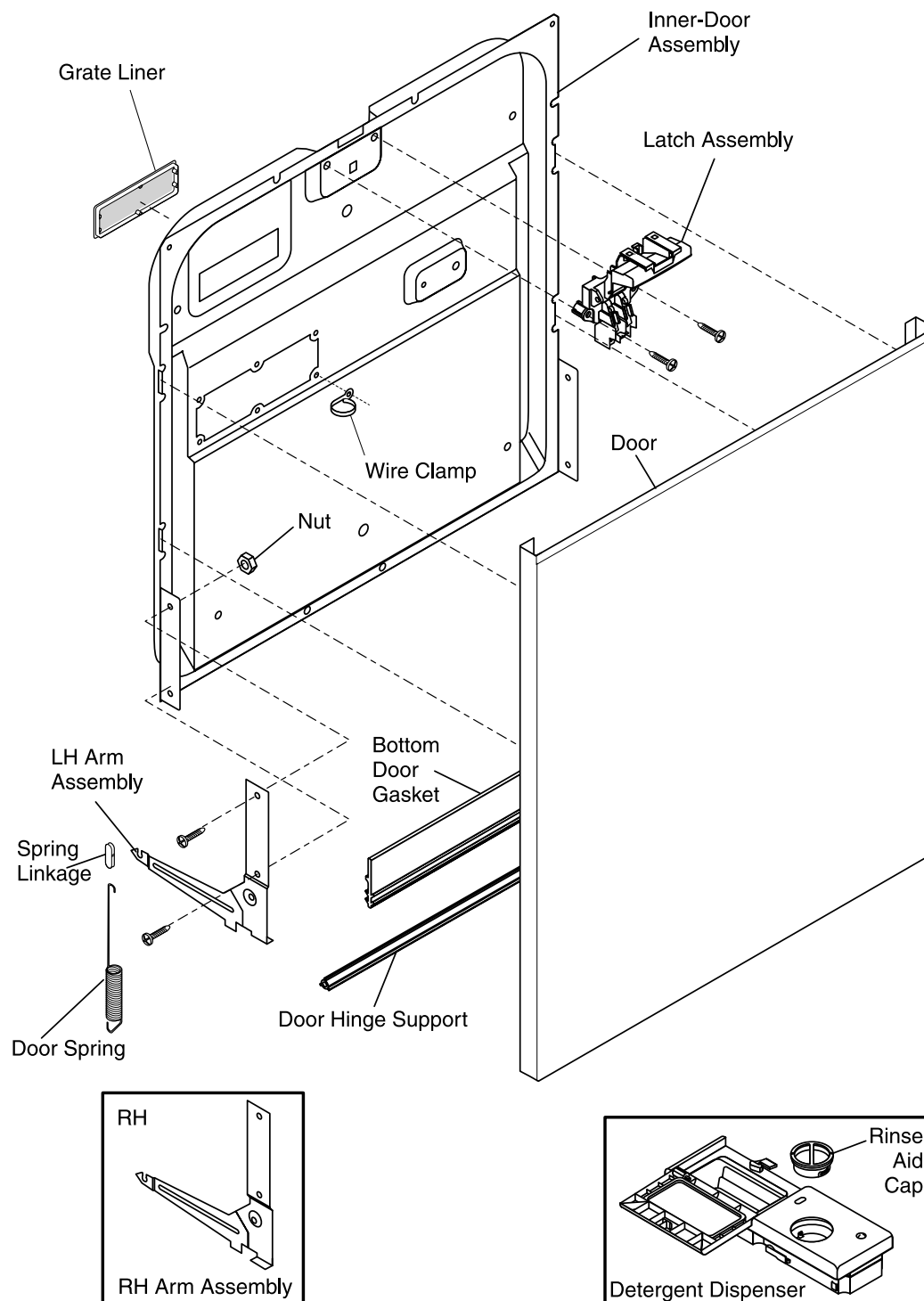
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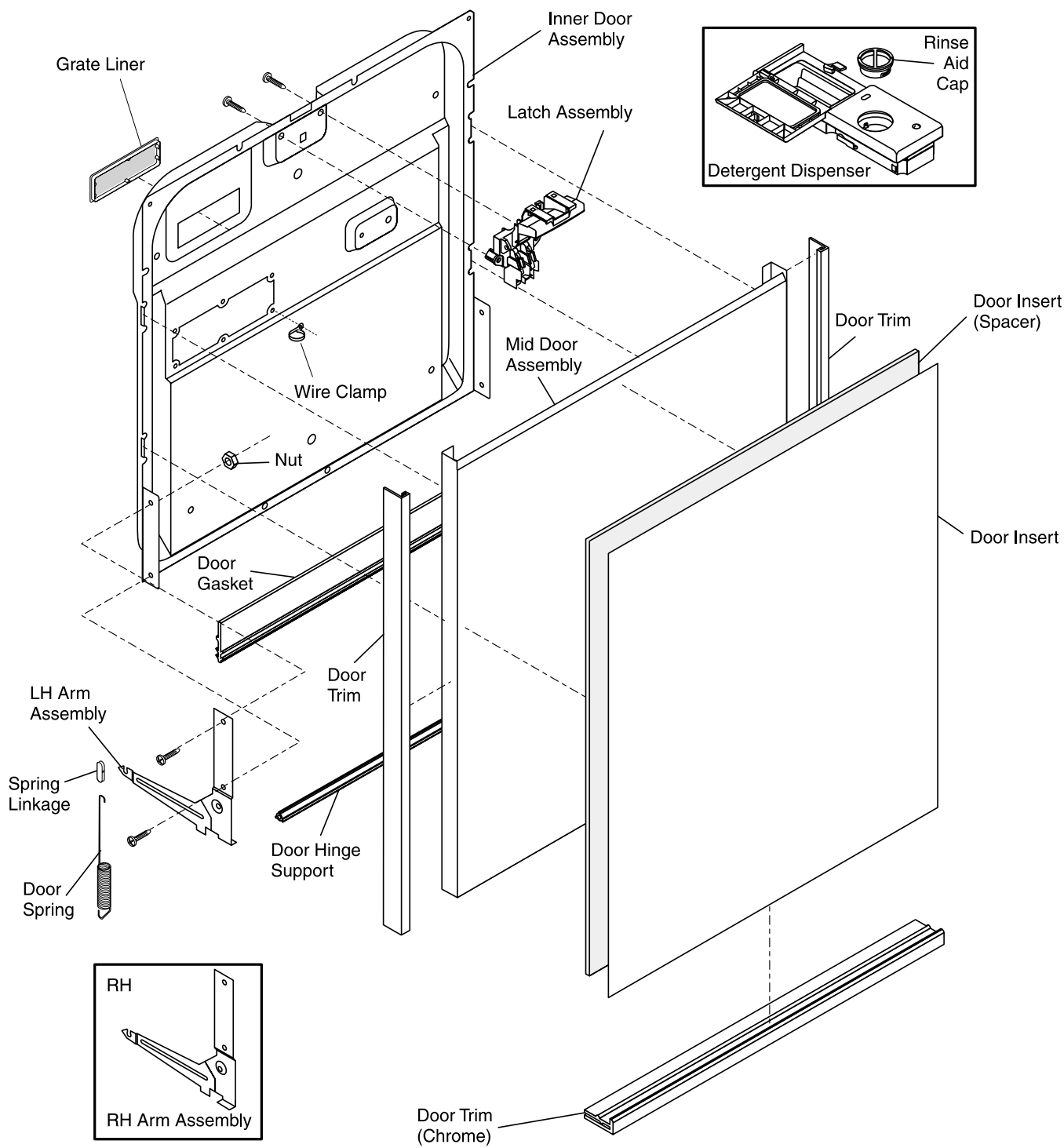
DOOR
For Model #
GPDB698J*1



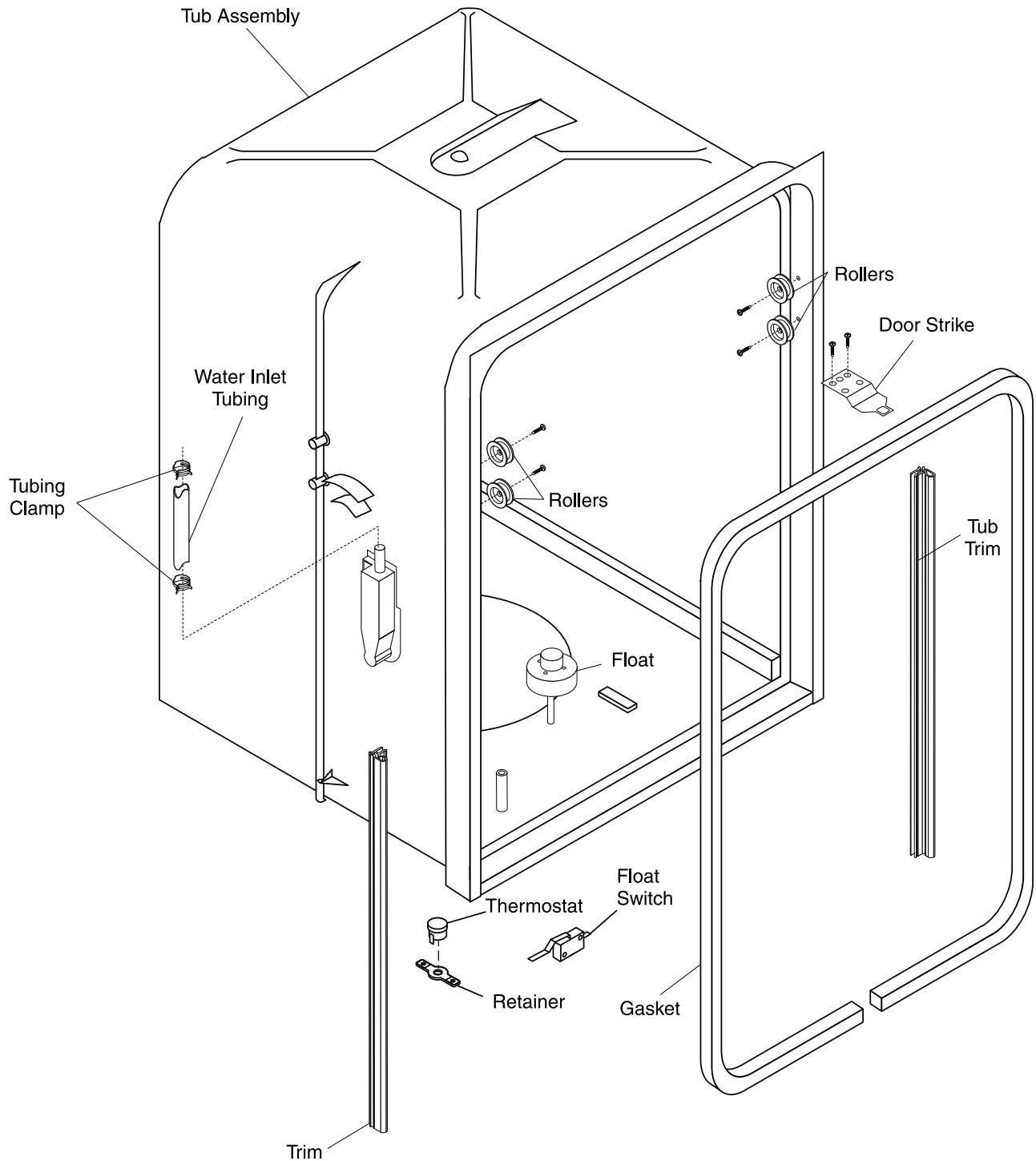
DOOR		
For Model #'s		
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ADW650RA*2	GLDB656J*1	MDB124BH*1
ADW550RA*1	GDB742RJ*0	MDB125RH*1
ADW650RA*1	GDB755RJ*0	
FDB125RH*2	GDB755RJ*1	



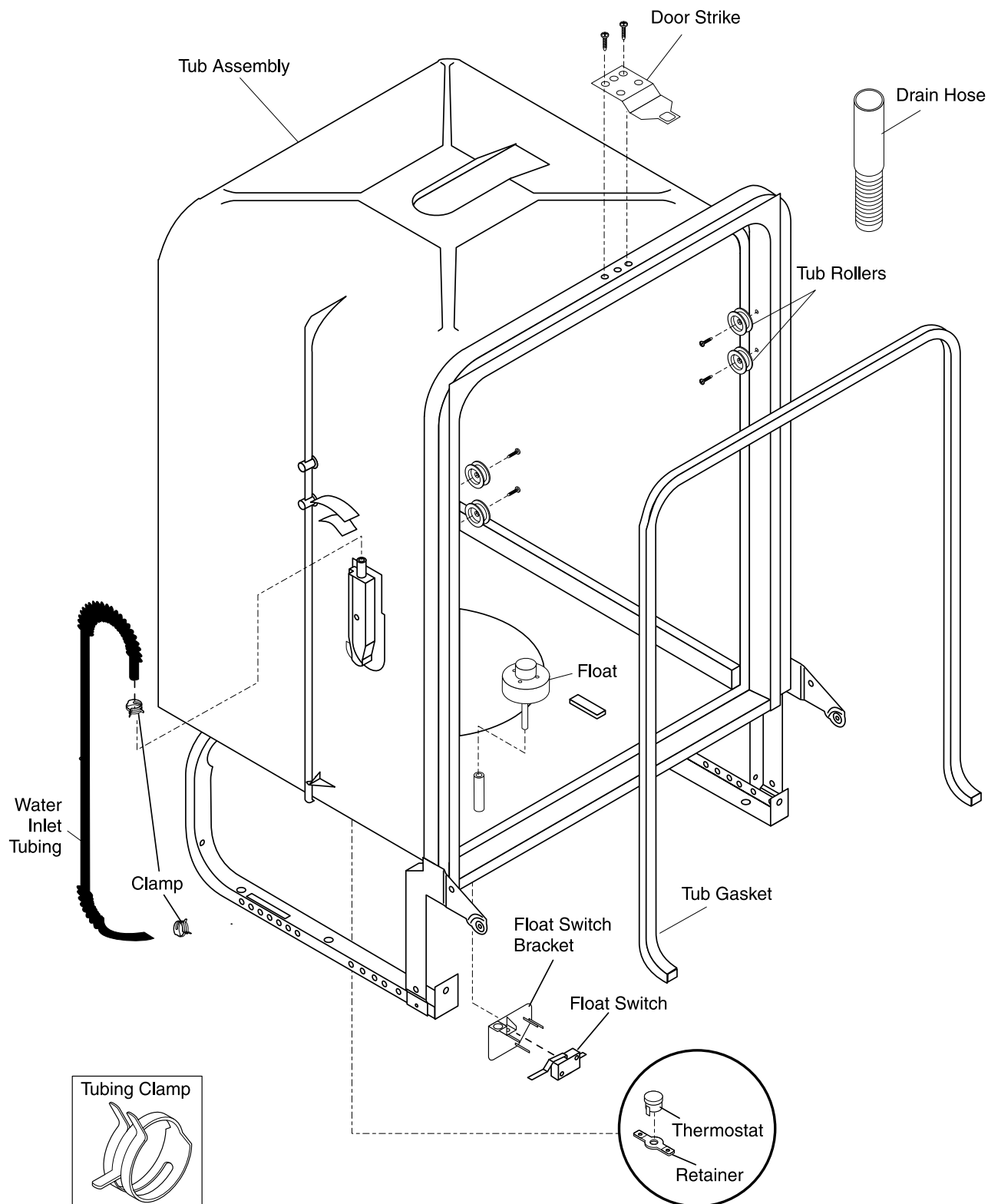
DOOR		
For Model #'s		
FDB345CF*2	FDB635RF*6	GDP635RH*2
FDB634CF*4	FDP635RF*5	MDB122RF*2



TUB
For Model #'s
FDP635RF*5
GDP635RH*2



TUB					
For Model #'s					
ADW350RA*0	ADW650RA*0	FDB345LF*2	GDB755RJ*0	GPDB698J*1	MDB124BH*1
ADW350RA*1	ADW650RA*1	FDB634CF*4	GDB755RJ*1	MDB122RF*2	MDB125RH*2
ADW550RA*0	ADW650RA*2	FDB635RF*6	GLDB653J*2	MDB124BJ*1	
ADW550RA*1	FDB125RH*2	GDB742RJ*0	GLDB656J*1	MDB124BJ*1	



MOTOR & PUMP

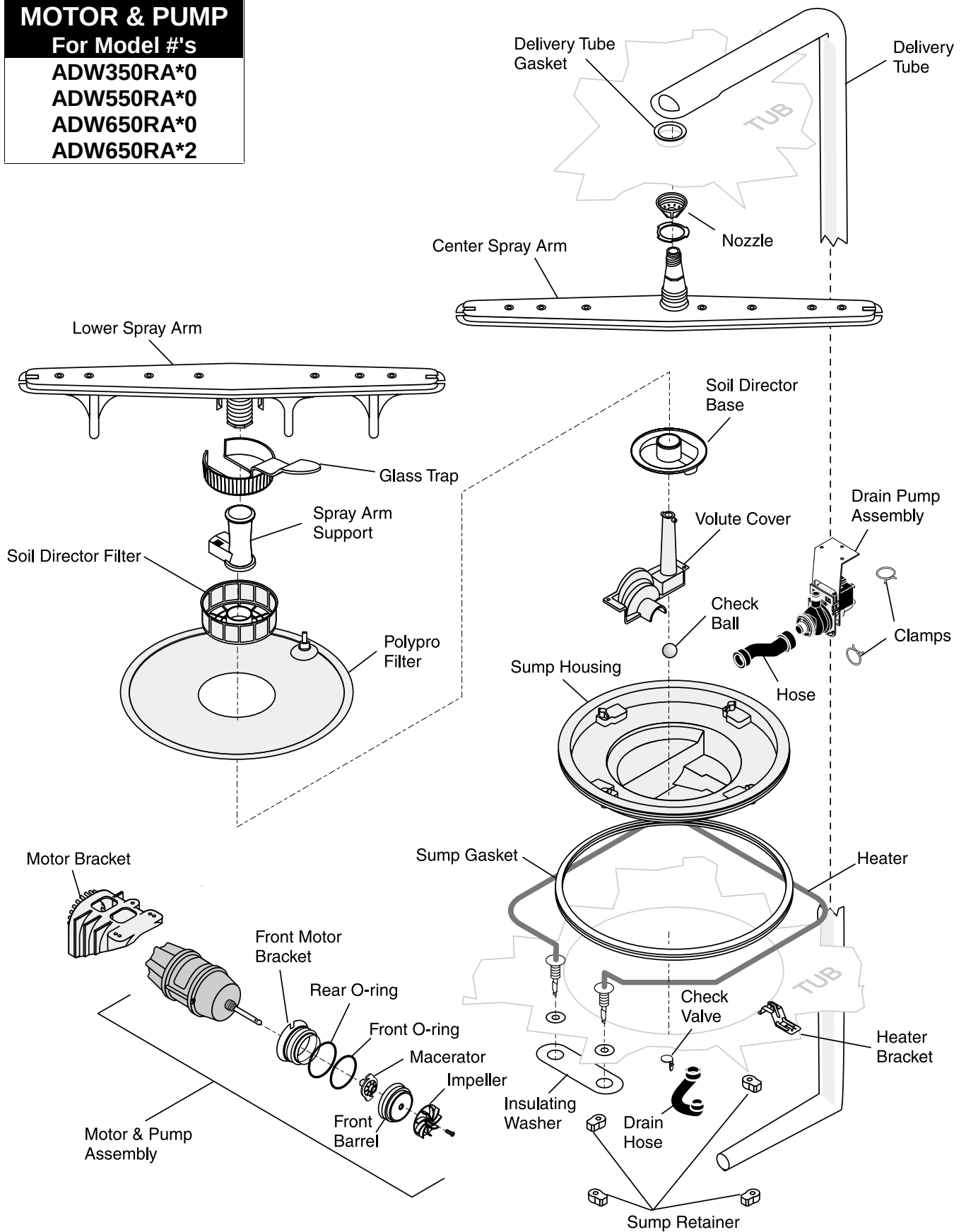
For Model #'s

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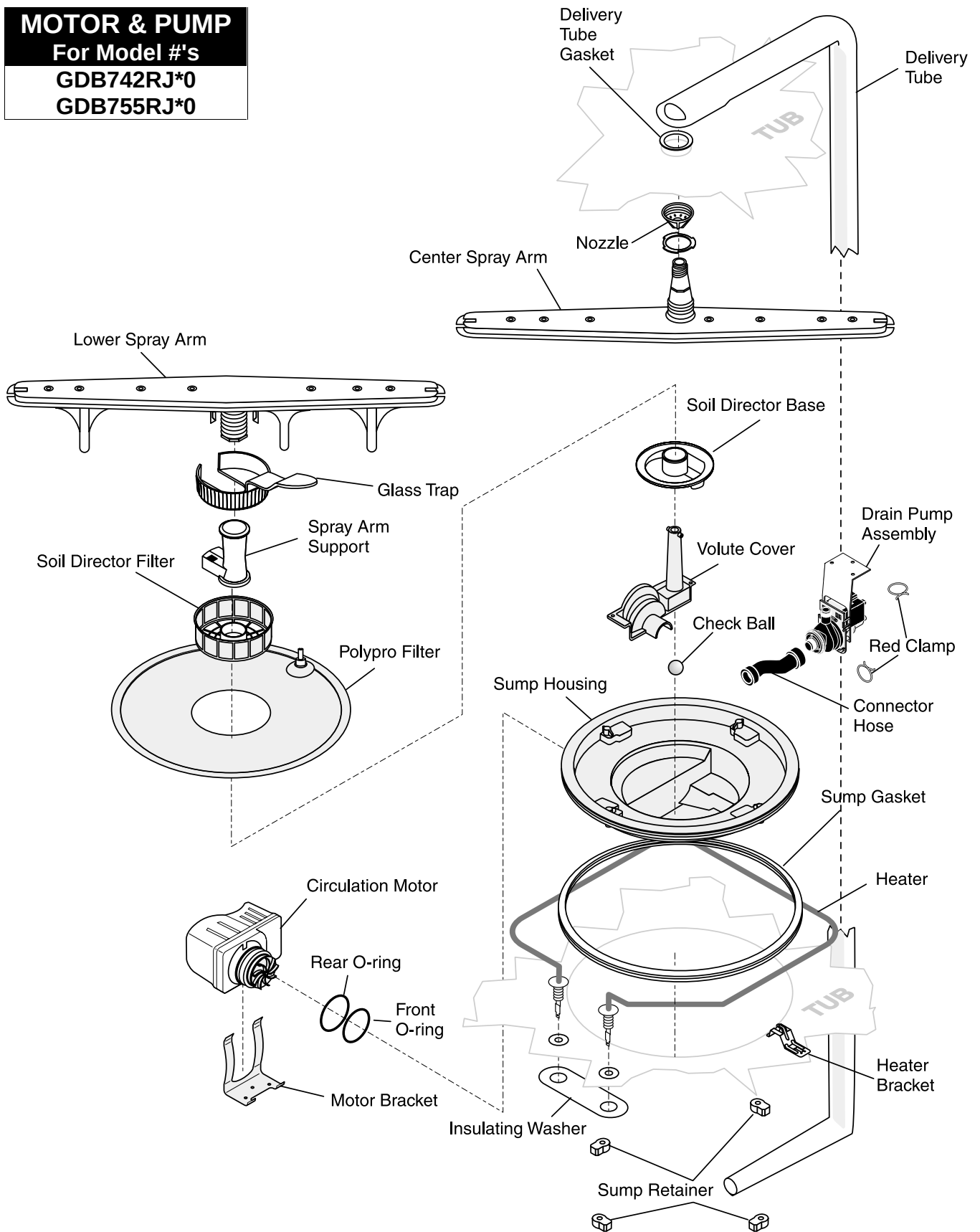
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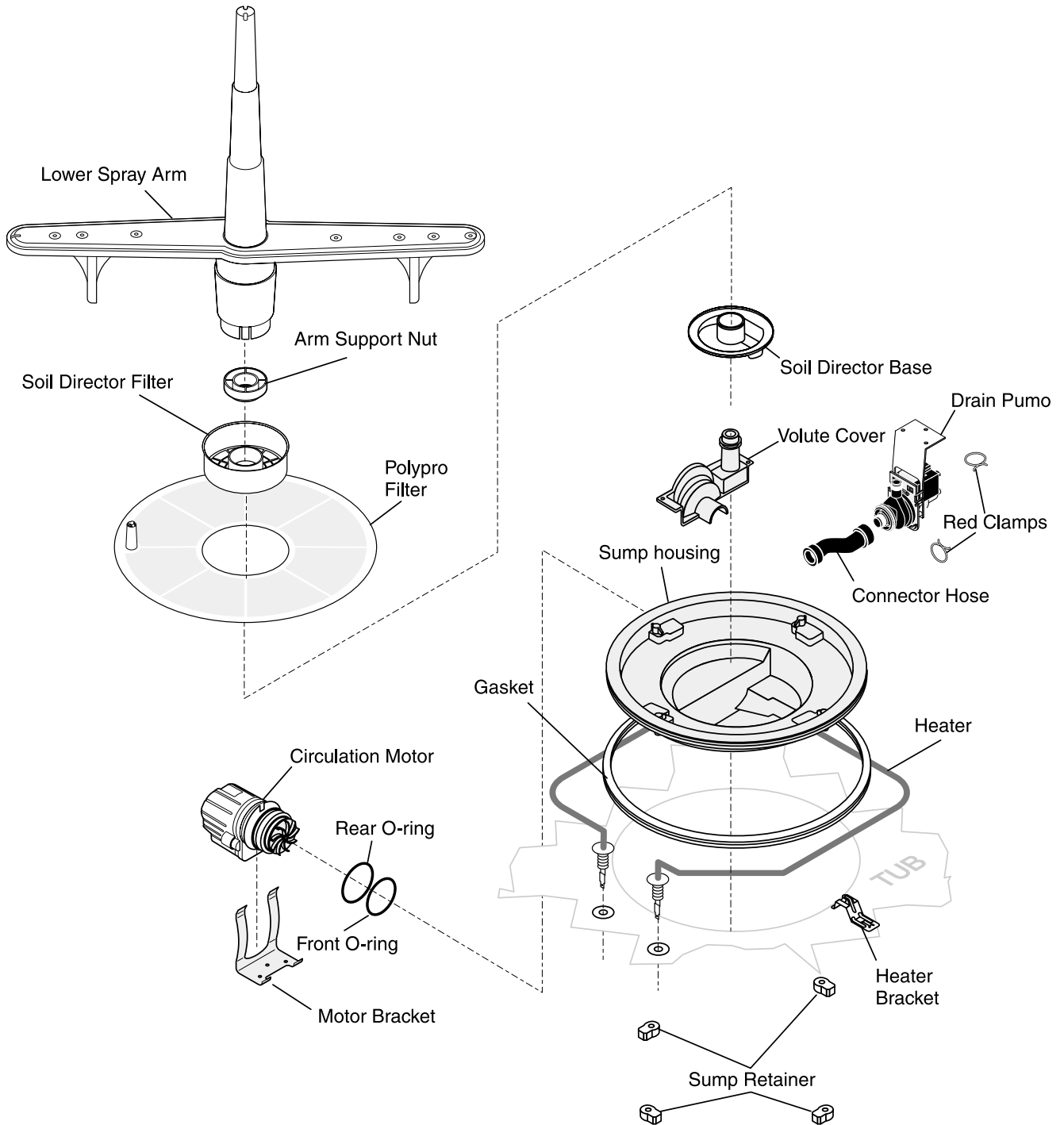
ADW650RA*2



MOTOR & PUMP
For Model #'s
GDB742RJ*0
GDB755RJ*0



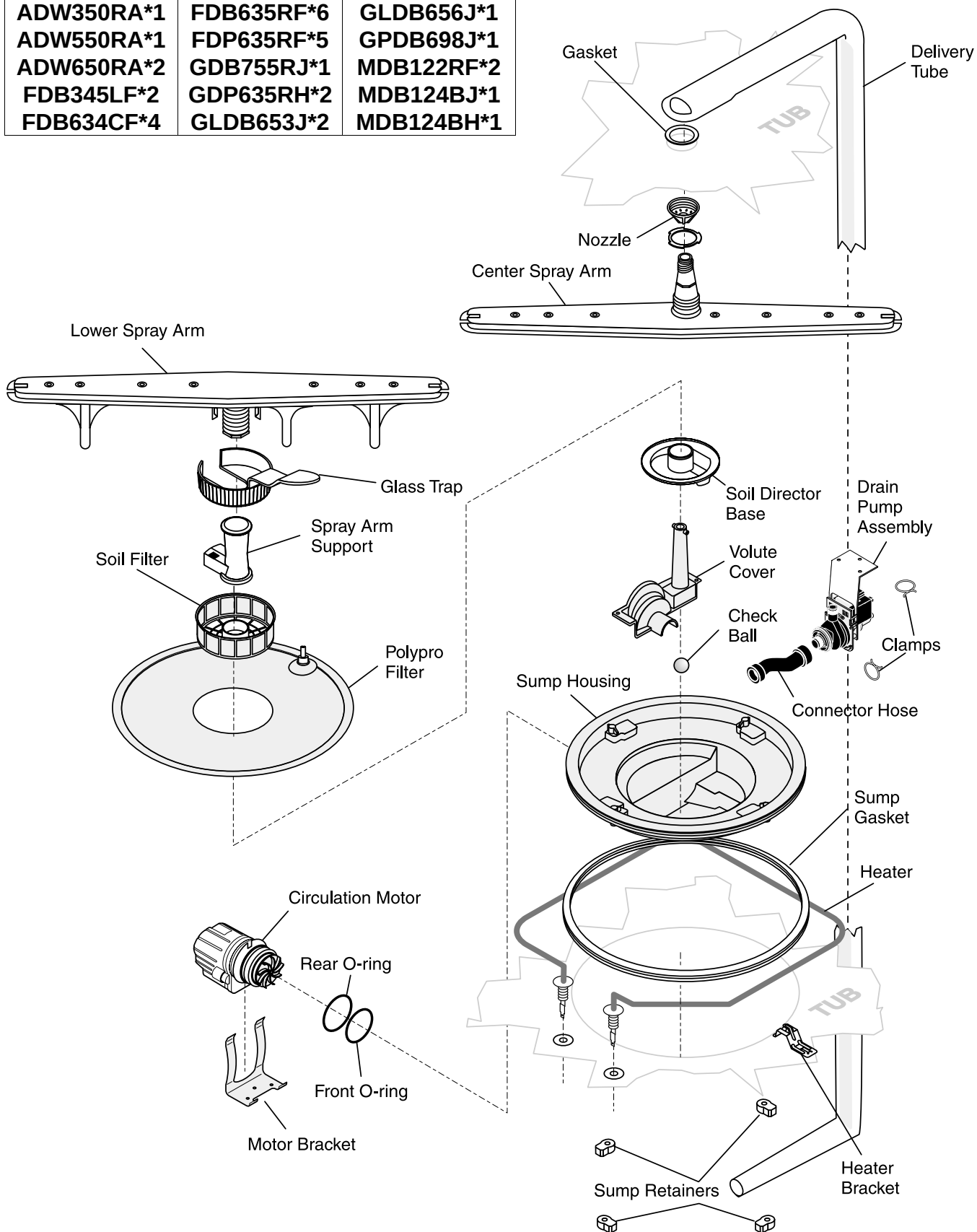
MOTOR & PUMP
For Model #'s
FDB125RH*2
MDB125RH*2



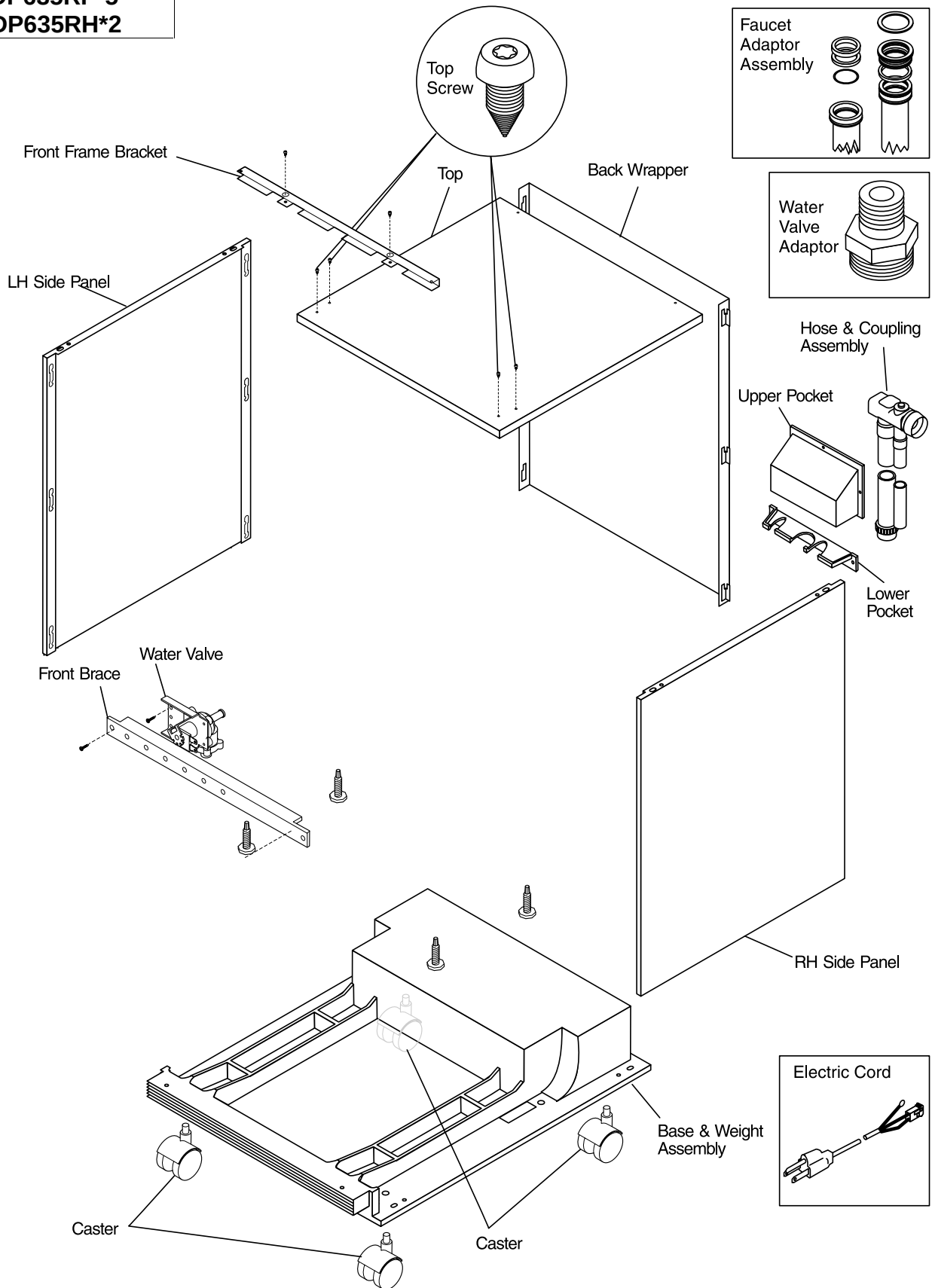
MOTOR & PUMP

For Model #'s

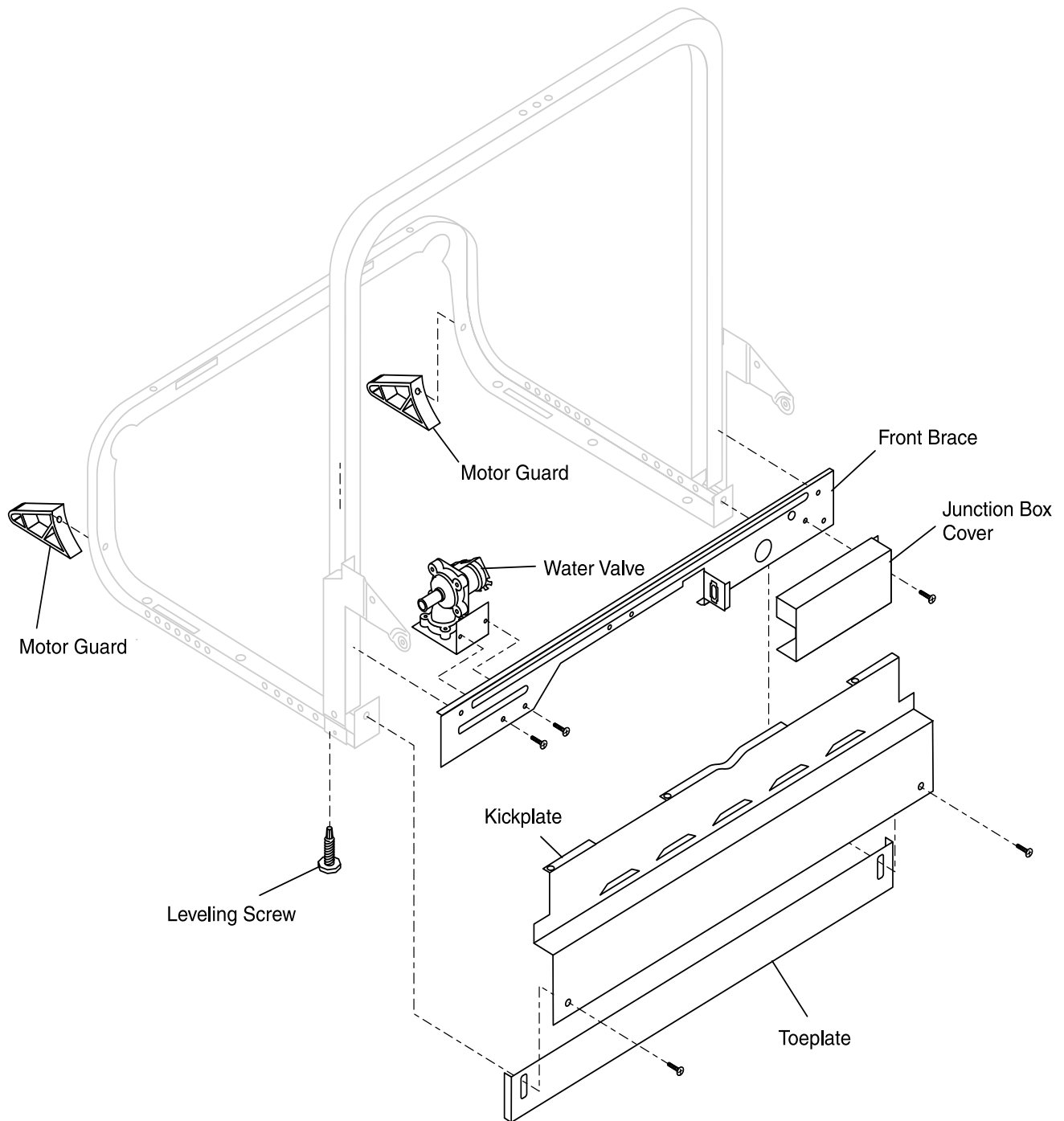
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ADW550RA*1	FDP635RF*5	GPDB698J*1
ADW650RA*2	GDB755RJ*1	MDB122RF*2
FDB345LF*2	GDP635RH*2	MDB124BJ*1
FDB634CF*4	GLDB653J*2	MDB124BH*1



FRAME
For Model #'s
FDP635RF*5
GDP635RH*2



FRAME
For Model #'s
GDB742RJ*0
GDB755RJ*0



FRAME

For Model #'s

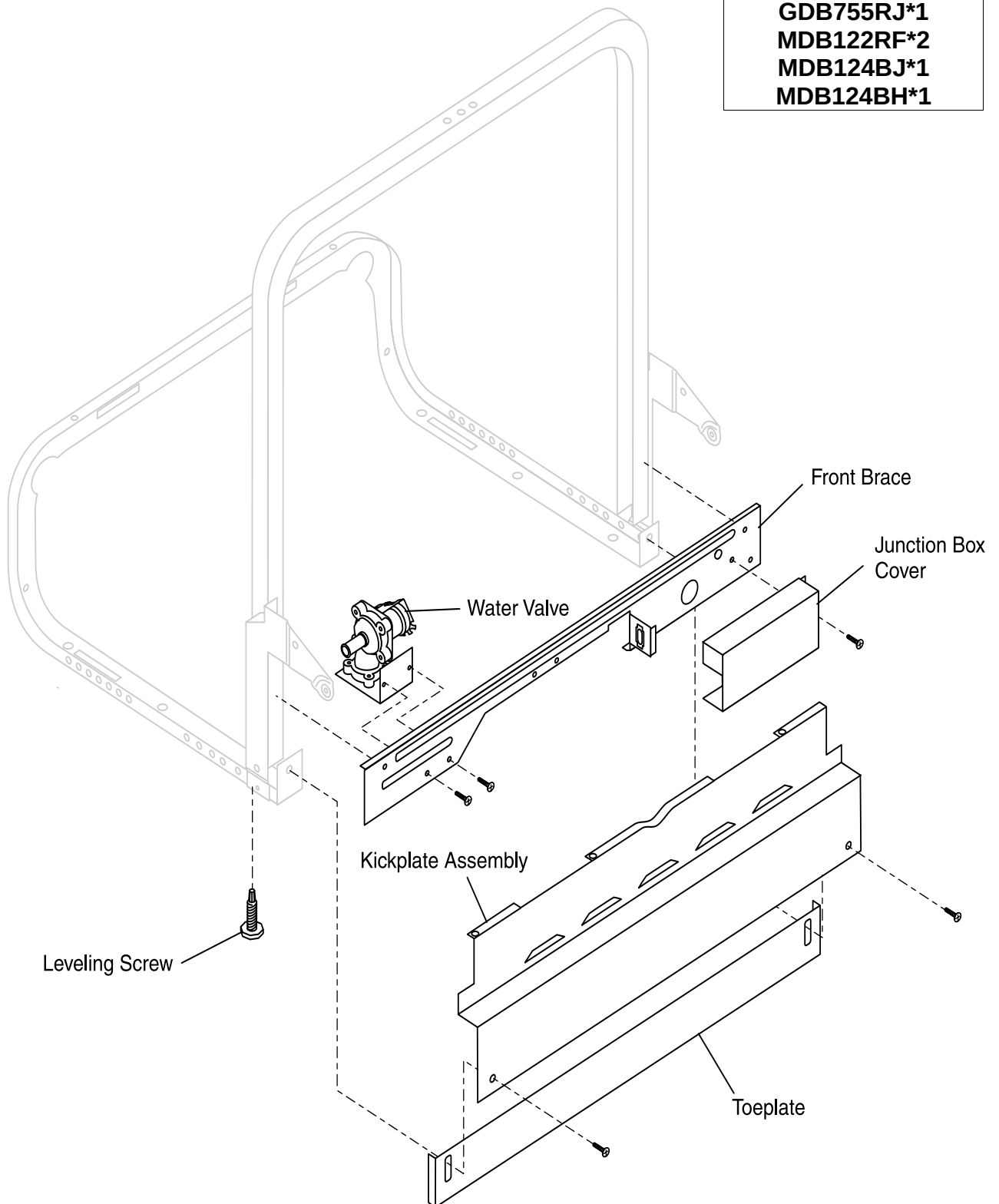
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GDB755RJ*1

MDB122RF*2

MDB124BJ*1

MDB124BH*1



FRAME

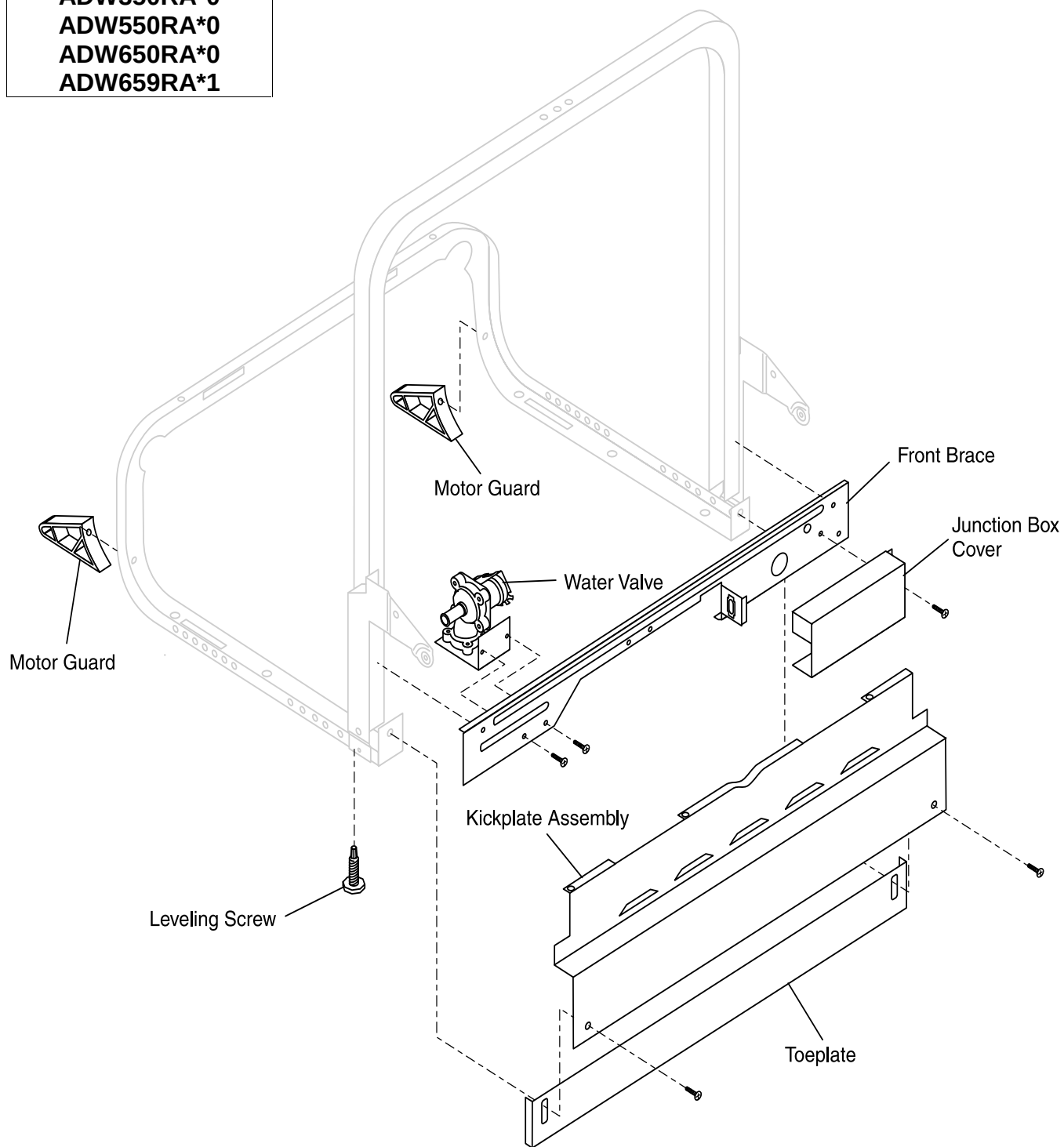
For Model #'s

ADW350RA*0

ADW550RA*0

ADW650RA*0

ADW659RA*1



FRAME

For Model #'s

FDB125RH*2

FDB345LF*2

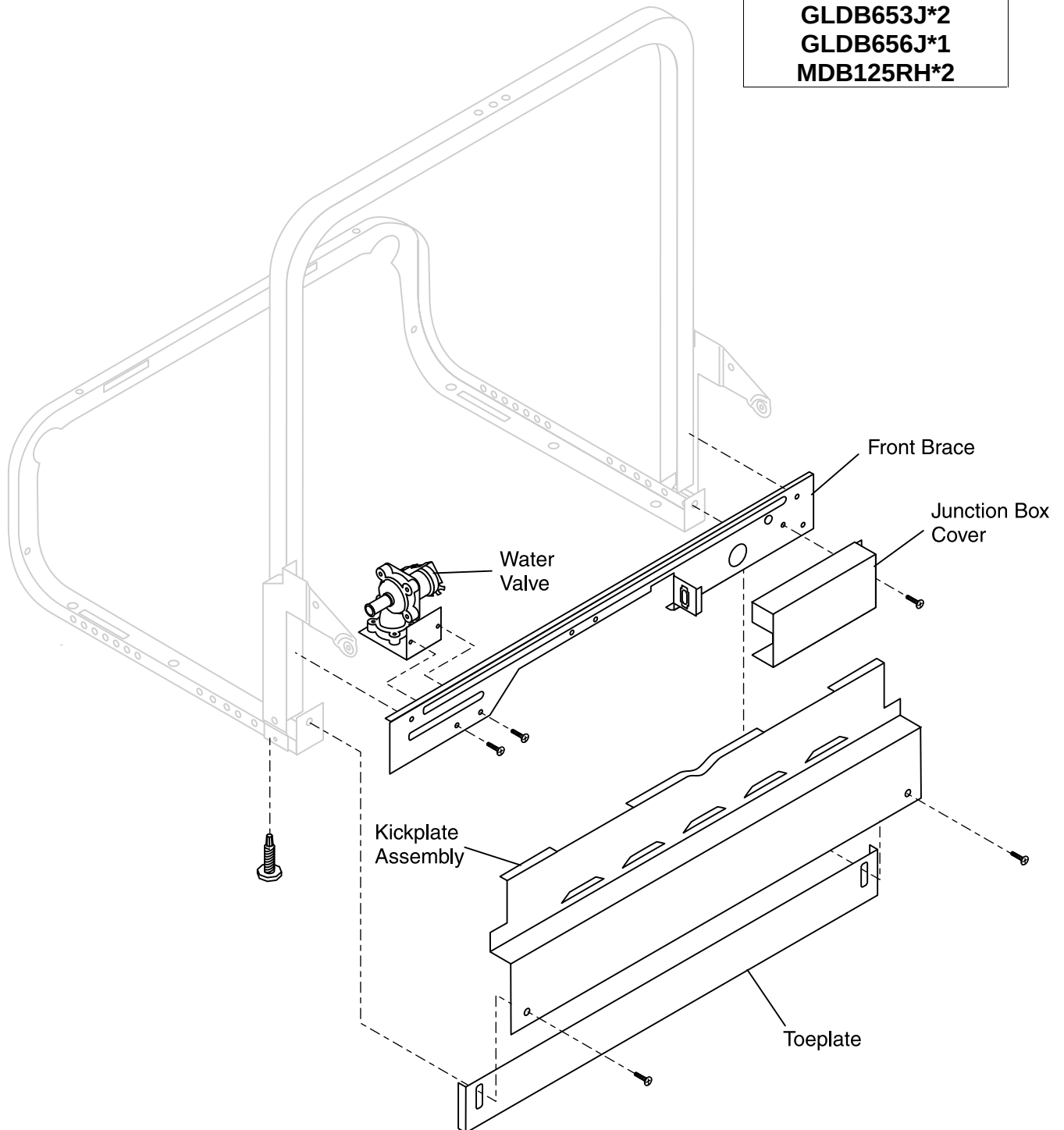
FDB634CF*4

FDB635RF*6

GLDB653J*2

GLDB656J*1

MDB125RH*2



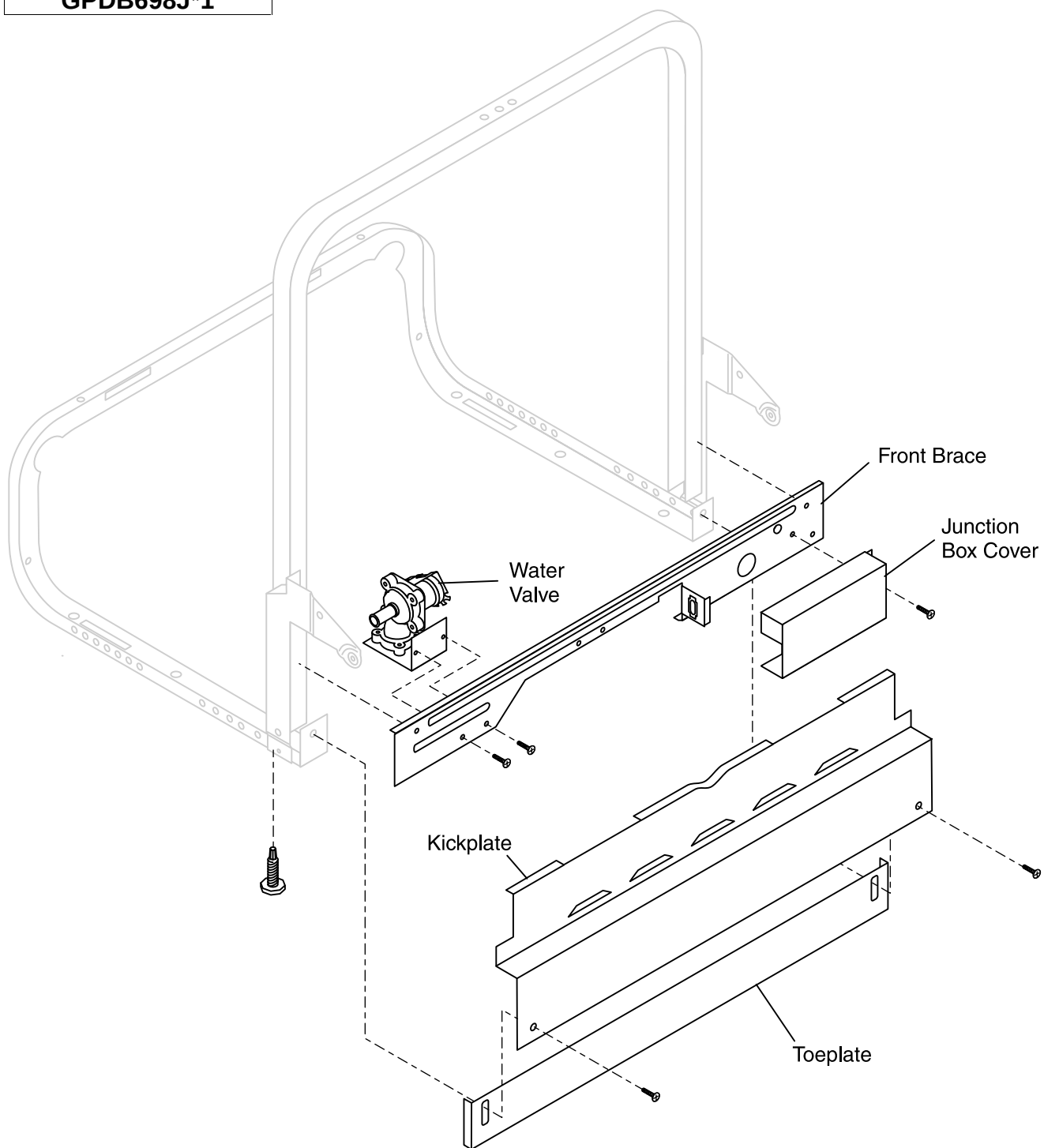
FRAME

For Model #'s

ADW550RA*1

ADW650RA*2

GPDB698J*1



RACKS

For Model #'s

ADW350RA*0

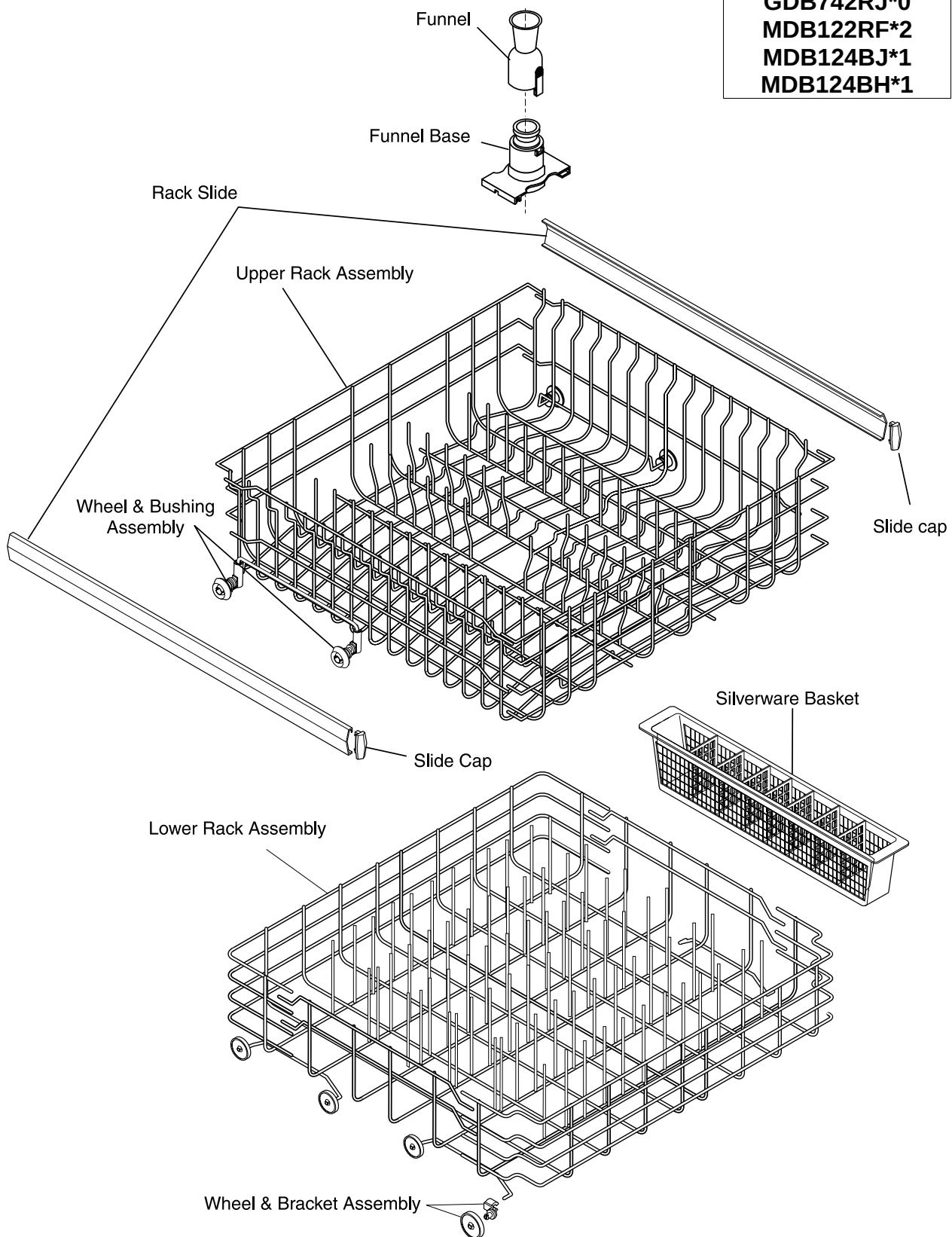
ADW350RA*1

GDB742RJ*0

MDB122RF*2

MDB124BJ*1

MDB124BH*1



RACKS

For Model #'s

ADW550RA*0

ADW550RA*1

FDB345LF*2

FDB634CF*4

FDB635RF*6

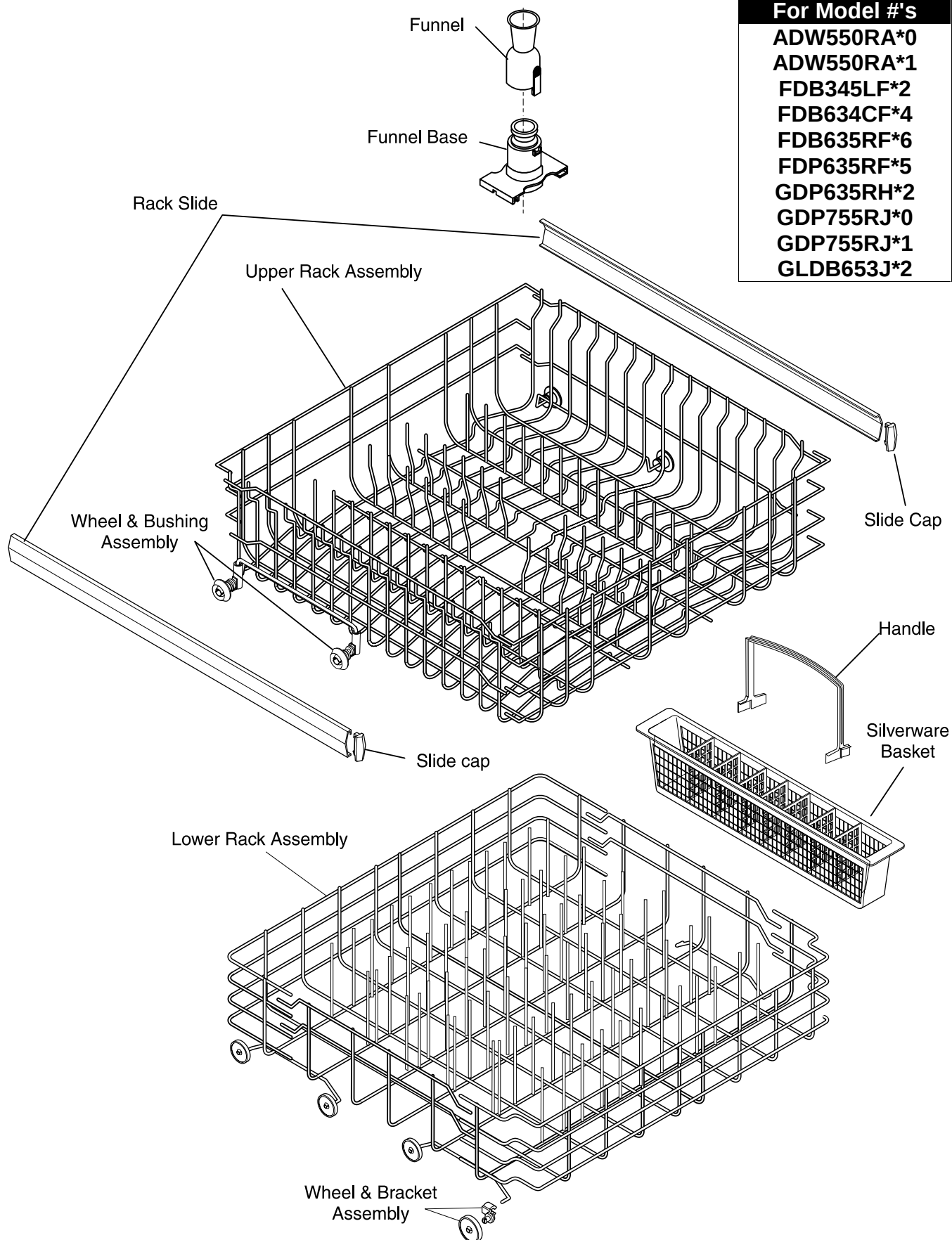
FDP635RF*5

GDP635RH*2

GDP755RJ*0

GDP755RJ*1

GLDB653J*2



RACKS

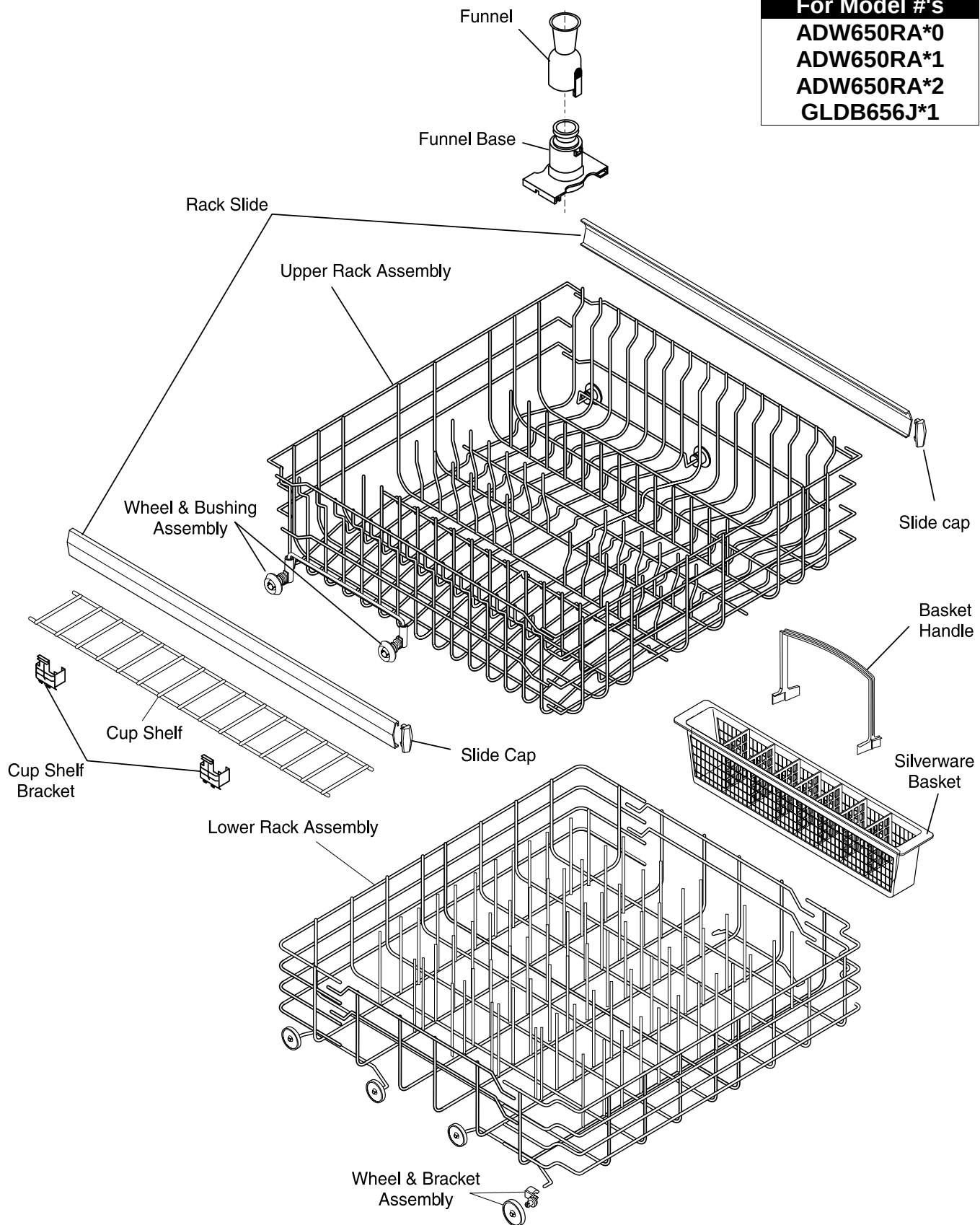
For Model #'s

ADW650RA*0

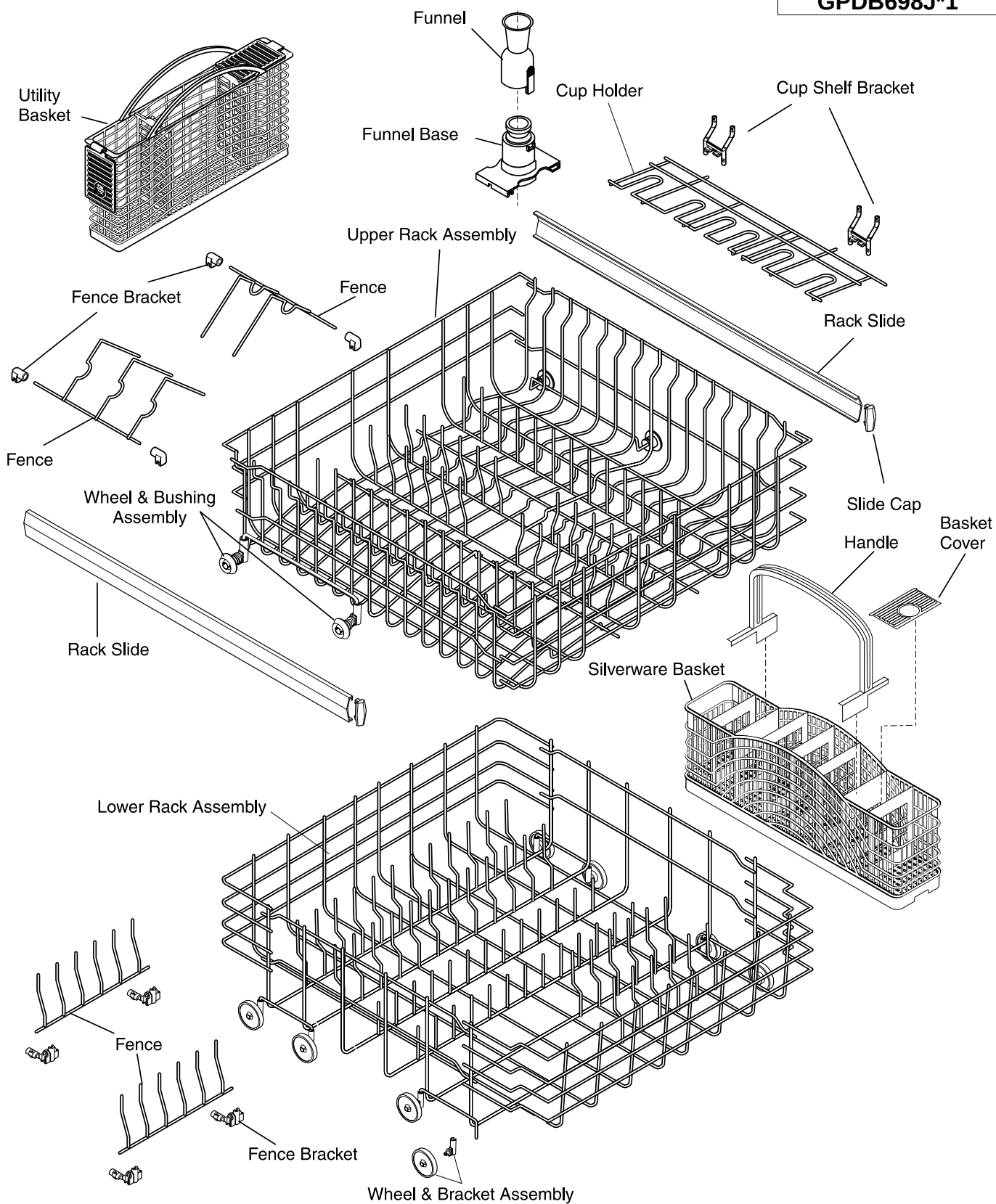
ADW650RA*1

ADW650RA*2

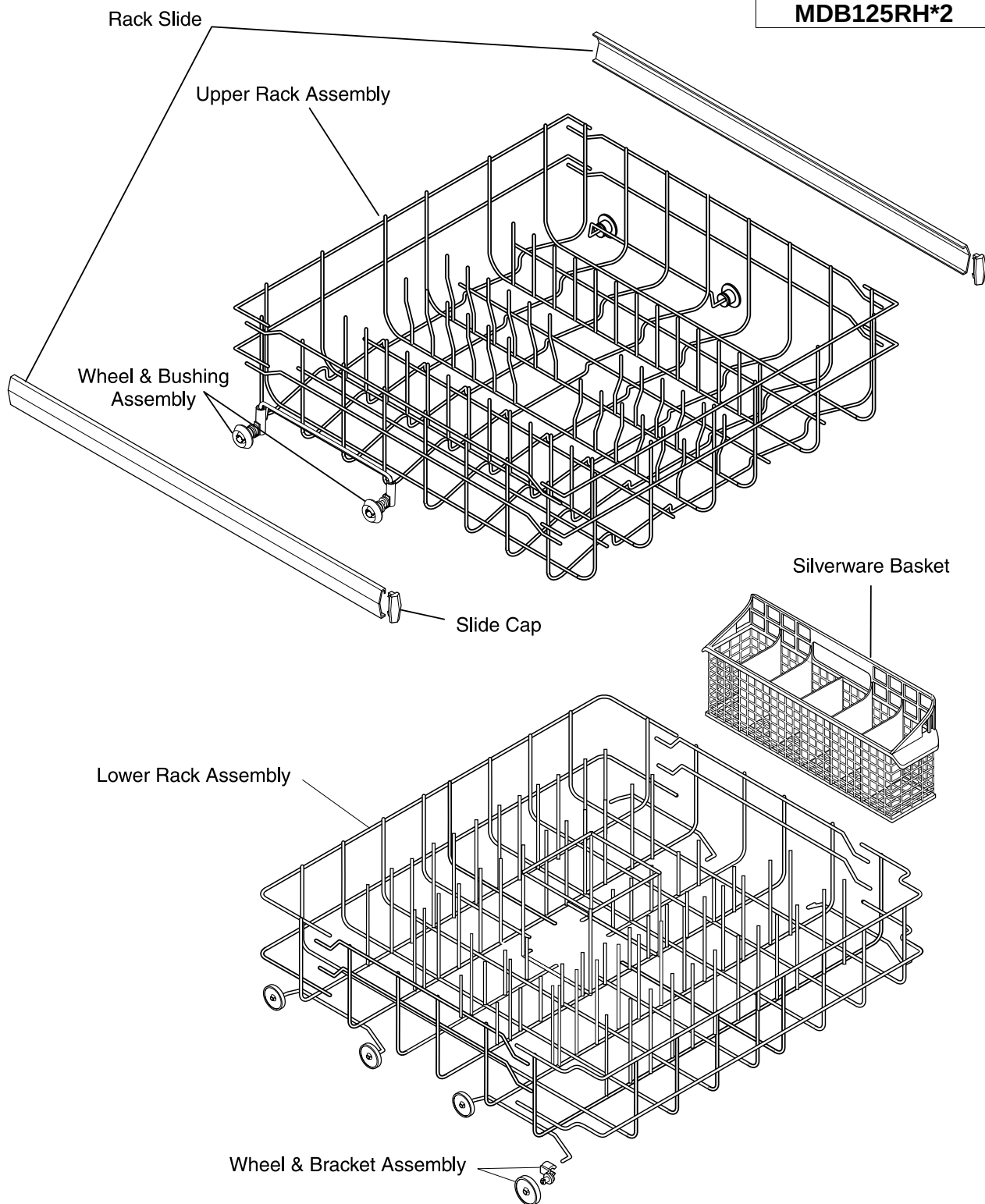
GLDB656J*1



RACKS
For Model #
GPDB698J*1



RACKS
For Model #'s
FDB125RH*2
MDB125RH*2



APPENDIX B

SERVICE DATA SHEETS

SERVICE DATA SHEET #	PAGE
154370901	B - 1
154374001	B - 2
154374101	B - 3
154382801	B - 4
154382901	B - 5
154383001	B - 6
154385401	B - 7
154390501	B - 8
154395901	B - 9
154396001	B- 10
154396201	B - 11
154396301	B - 12
154396401	B - 13
154396501	B - 14
154396801	B - 15
154400501	B - 16
154402401	B - 17
154402501	B - 18
154403001	B - 19
154403801	B - 20
154405901	B - 21
154407901	B - 22

SERVICE DATA SHEET

This information is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. Frigidaire Company cannot be responsible, nor assume any liability, for injury or damage of any kind arising from the use of this Service Data Sheet.

P/N: 154370901

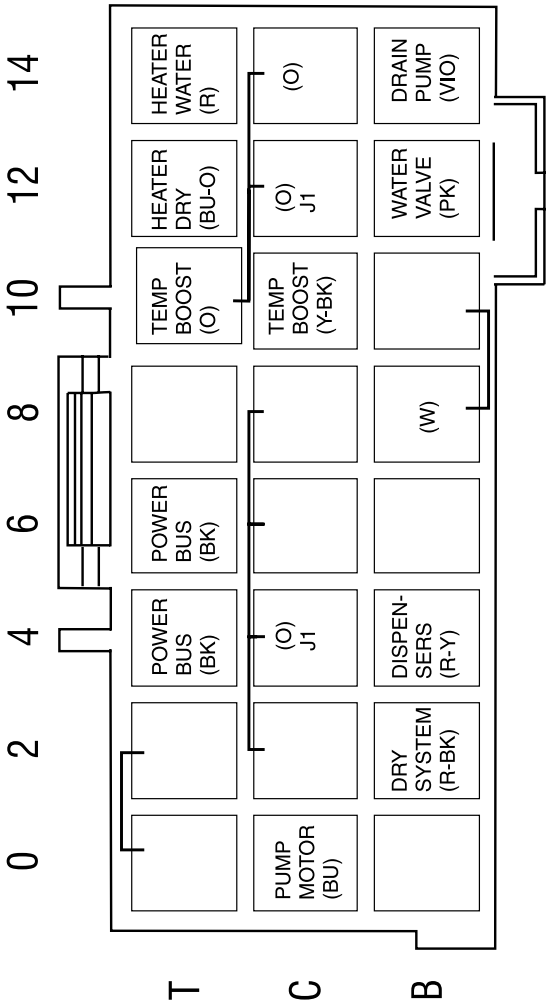


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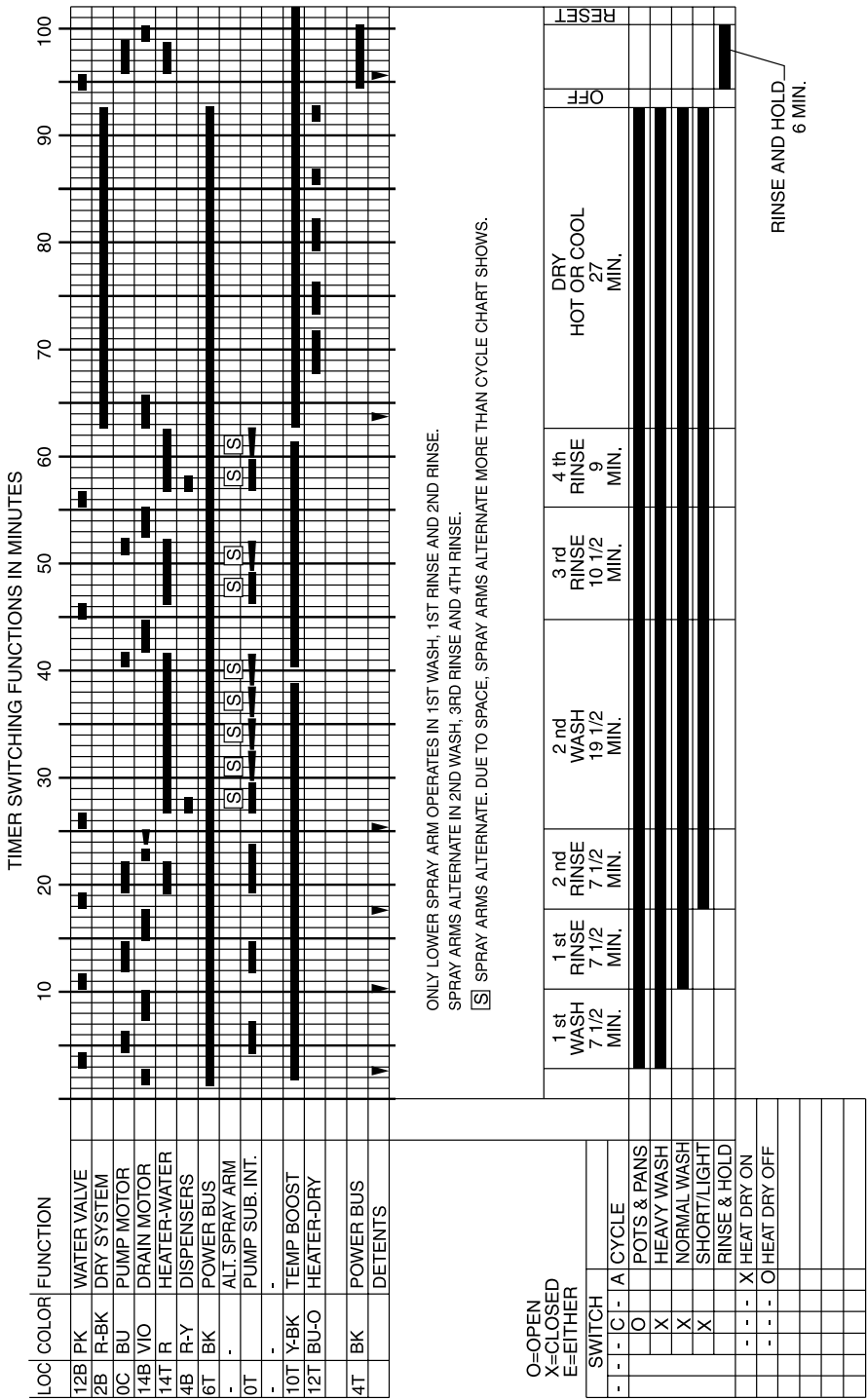
Color Code

BK.....Black	O.....Orange	R-BK.....Red/Black
BK-W.....Black/White	O-BK.....Orange/Black	R-W.....Red/White
BK-Y.....Black/Yellow	O-W.....Orange/White	R-Y.....Red/Yellow
BR.....Brown	PK.....Pink	VIO.....Violet
BR-W.....Brown/White	PK-BK.....Pink/Black	W.....White
BU.....Blue	PK-W.....Pink/White	Y.....Yellow
BU-O.....Blue/Orange	R.....Red	Y-BK.....Yellow/Black

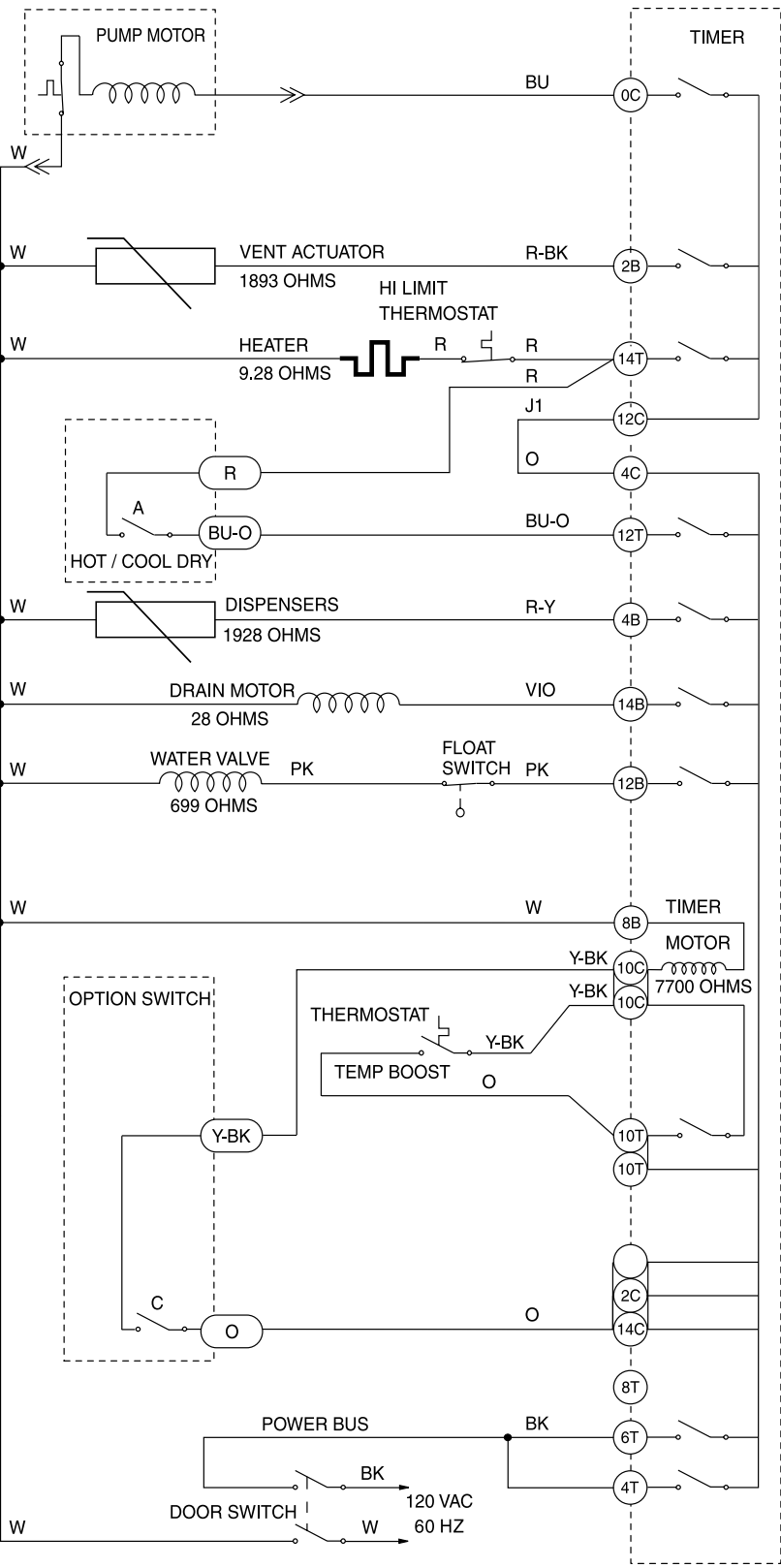
Timer Block



Cycle Chart



Wiring Diagram



SERVICE DATA SHEET

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P/N: 154374001

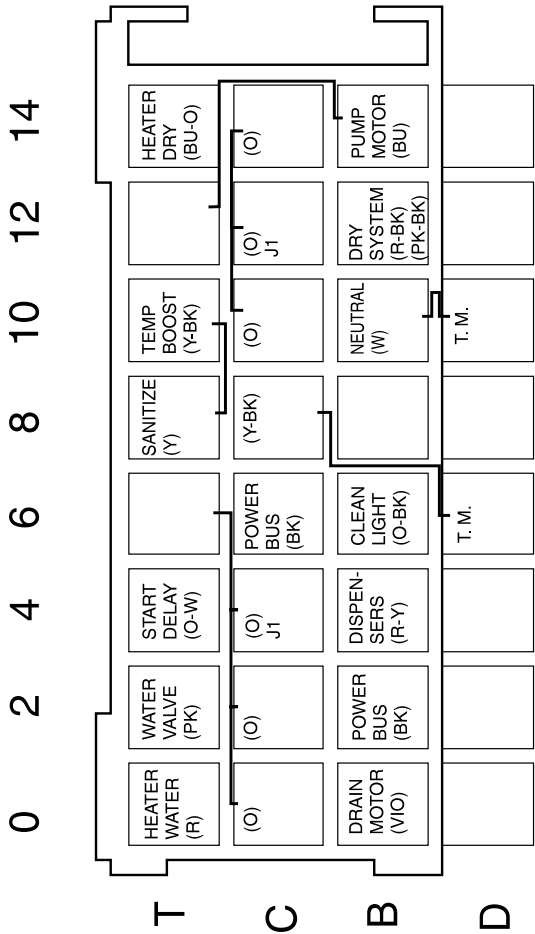
Models: 650 Series

000122

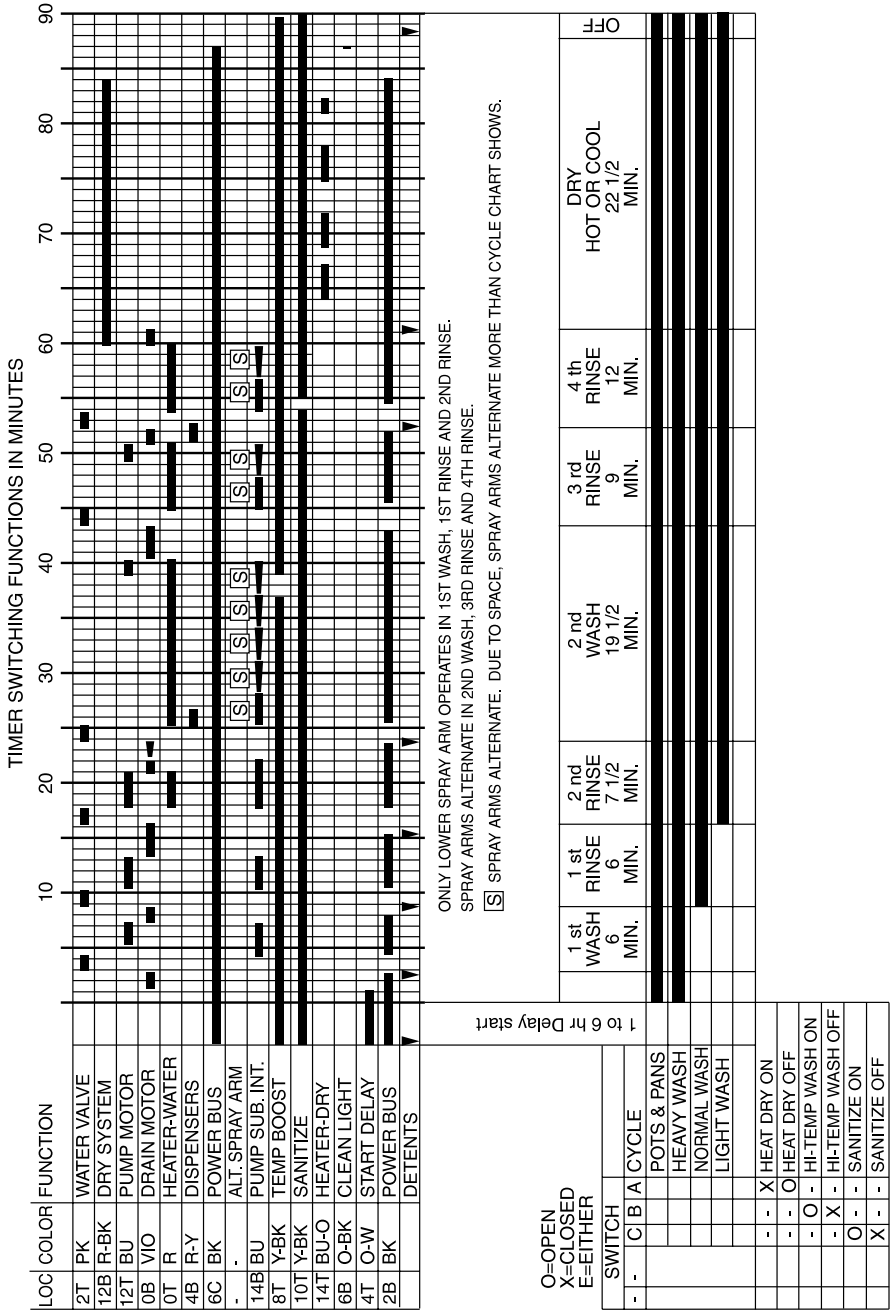
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BK-W.....Black/White	O-BK.....Orange/Black	R-W.....Red/White
BK-Y.....Black/Yellow	O-W.....Orange/White	R-Y.....Red/Yellow
BR.....Brown	PK.....Pink	VIO.....Violet
BR-W.....Brown/White	PK-BK.....Pink/Black	W.....White
BU.....Blue	PK-W.....Pink/White	Y.....Yellow
BU-O.....Blue/Orange	R.....Red	Y-BK.....Yellow/Black

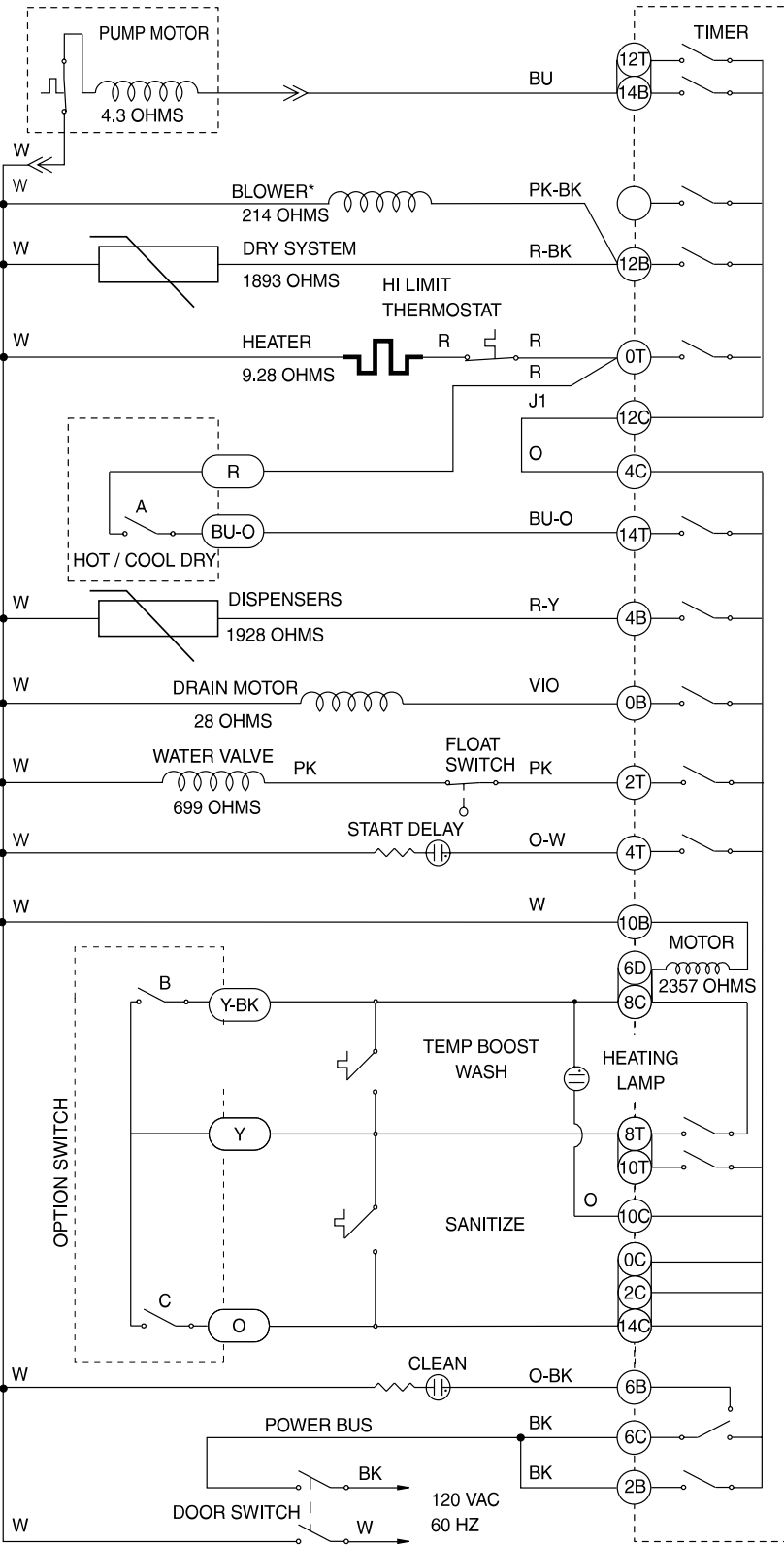
Timer Block



Cycle Chart



Wiring Diagram



*Some Models.

SERVICE DATA SHEET

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P/N: 154374101

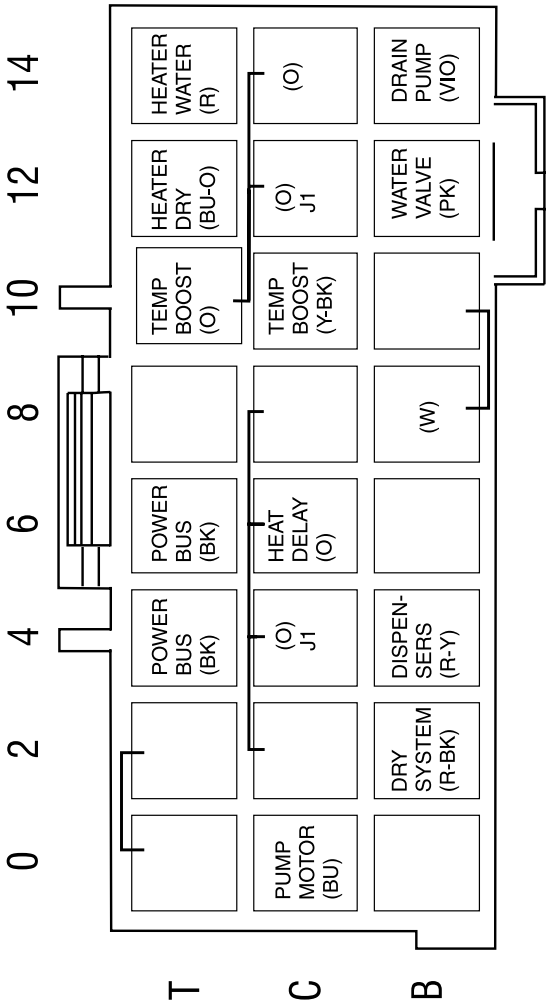
Models: 640 Series

000124

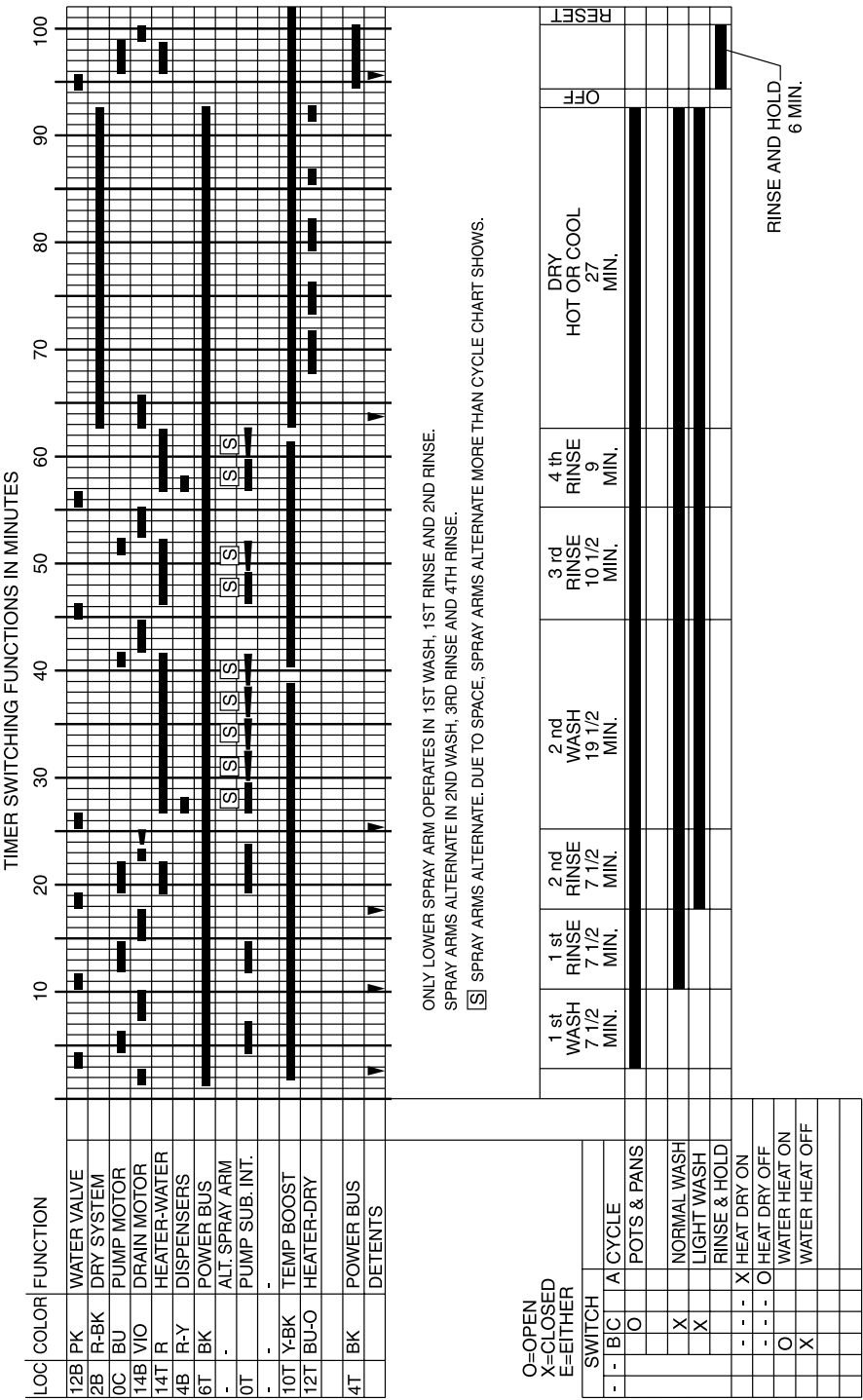
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BK-W..... Black/White	O-BK.....Orange/Black	R-W.....Red/White
BK-Y.....Black/Yellow	O-W.....Orange/White	R-Y.....Red/Yellow
BR.....Brown	PK.....Pink	VIO.....Violet
BR-W.....Brown/White	PK-BK.....Pink/Black	W.....White
BU.....Blue	PK-W.....Pink/White	Y.....Yellow
BU-O..... Blue/Orange	R.....Red	Y-BK.....Yellow/Black

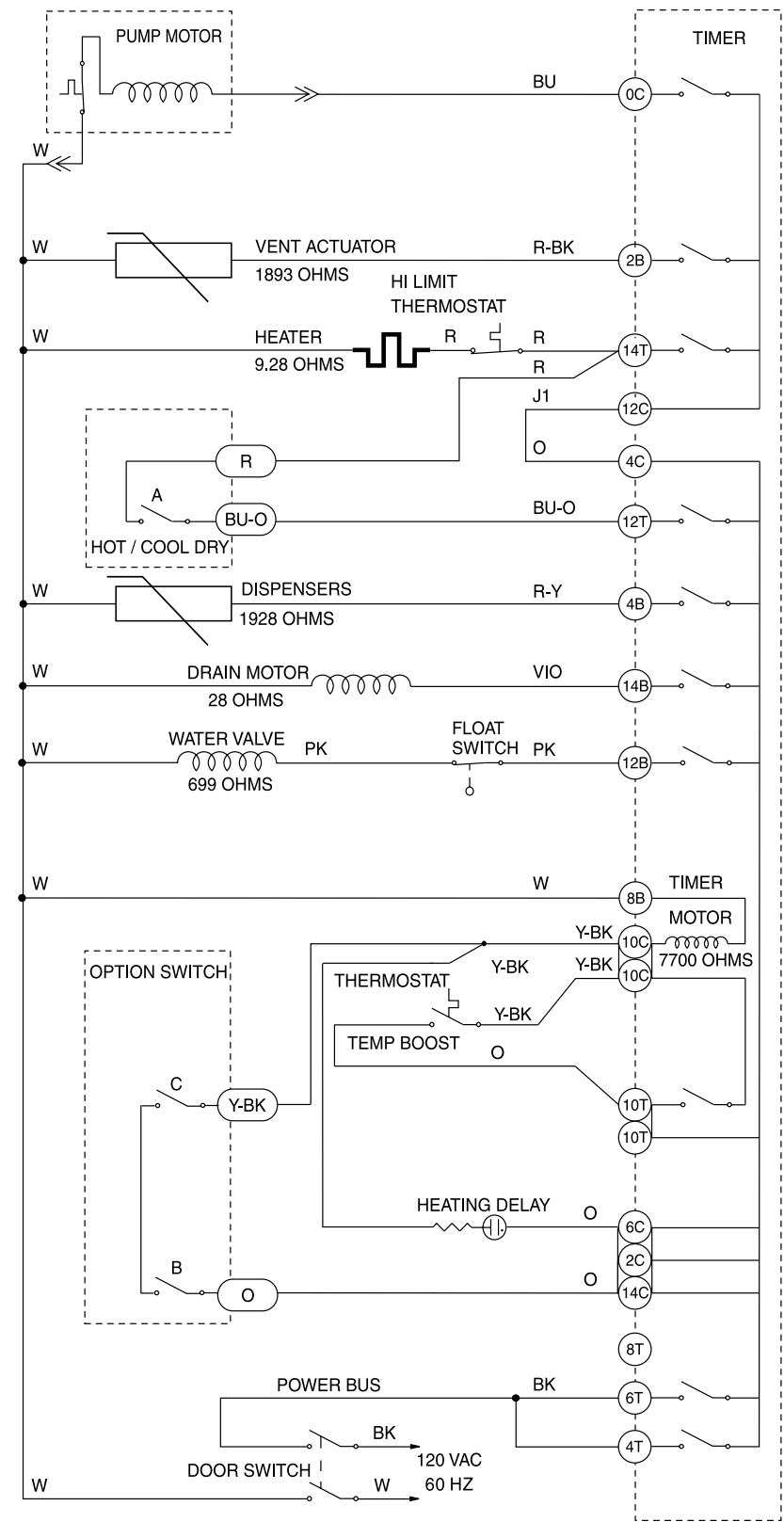
Timer Block



Cycle Chart



Wiring Diagram



SERVICE DATA SHEET

This information is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. Amana Appliances cannot be responsible, nor assume any liability, for injury or damage of any kind arising from the use of this Service Data Sheet.

P/N: 154382901

Amana P/N: 12425412SP

Amana

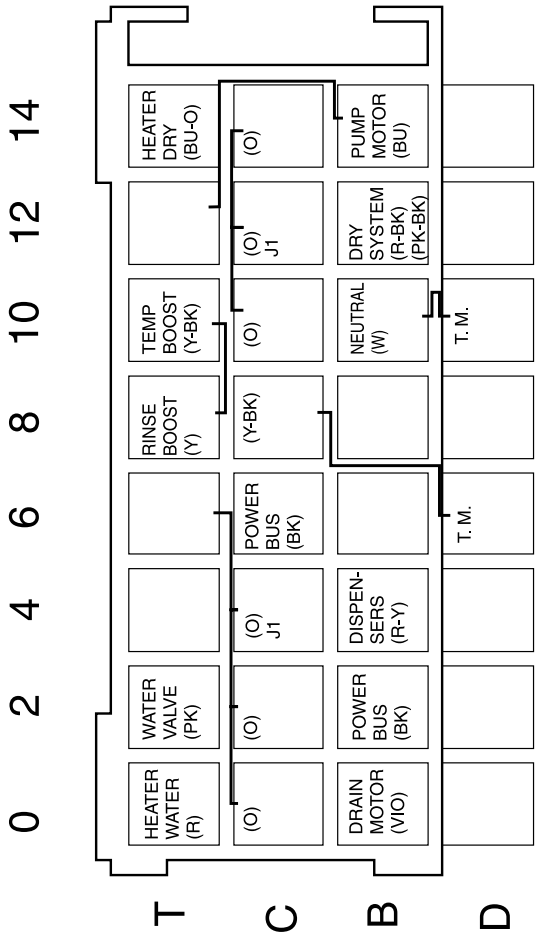
Model ADW55ORA

000705

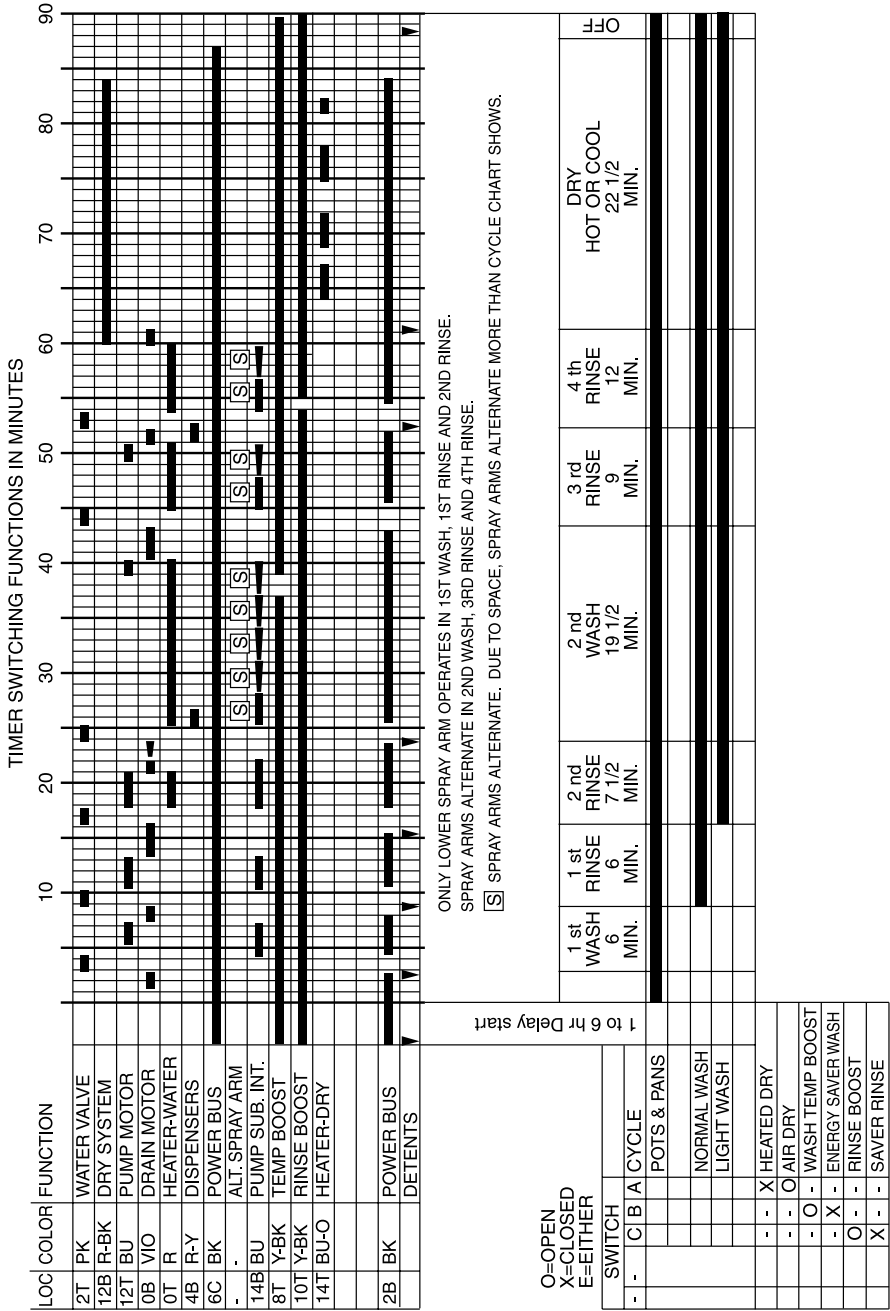
Color Code

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BK-W.....Black/White	O-BK.....Orange/Black	R-W.....Red/White
BK-Y.....Black/Yellow	O-W.....Orange/White	R-Y.....Red/Yellow
BR.....Brown	PK.....Pink	VIO.....Violet
BR-W.....Brown/White	PK-BK.....Pink/Black	W.....White
BU.....Blue	PK-W.....Pink/White	Y.....Yellow
BU-O.....Blue/Orange	R.....Red	Y-BK.....Yellow/Black

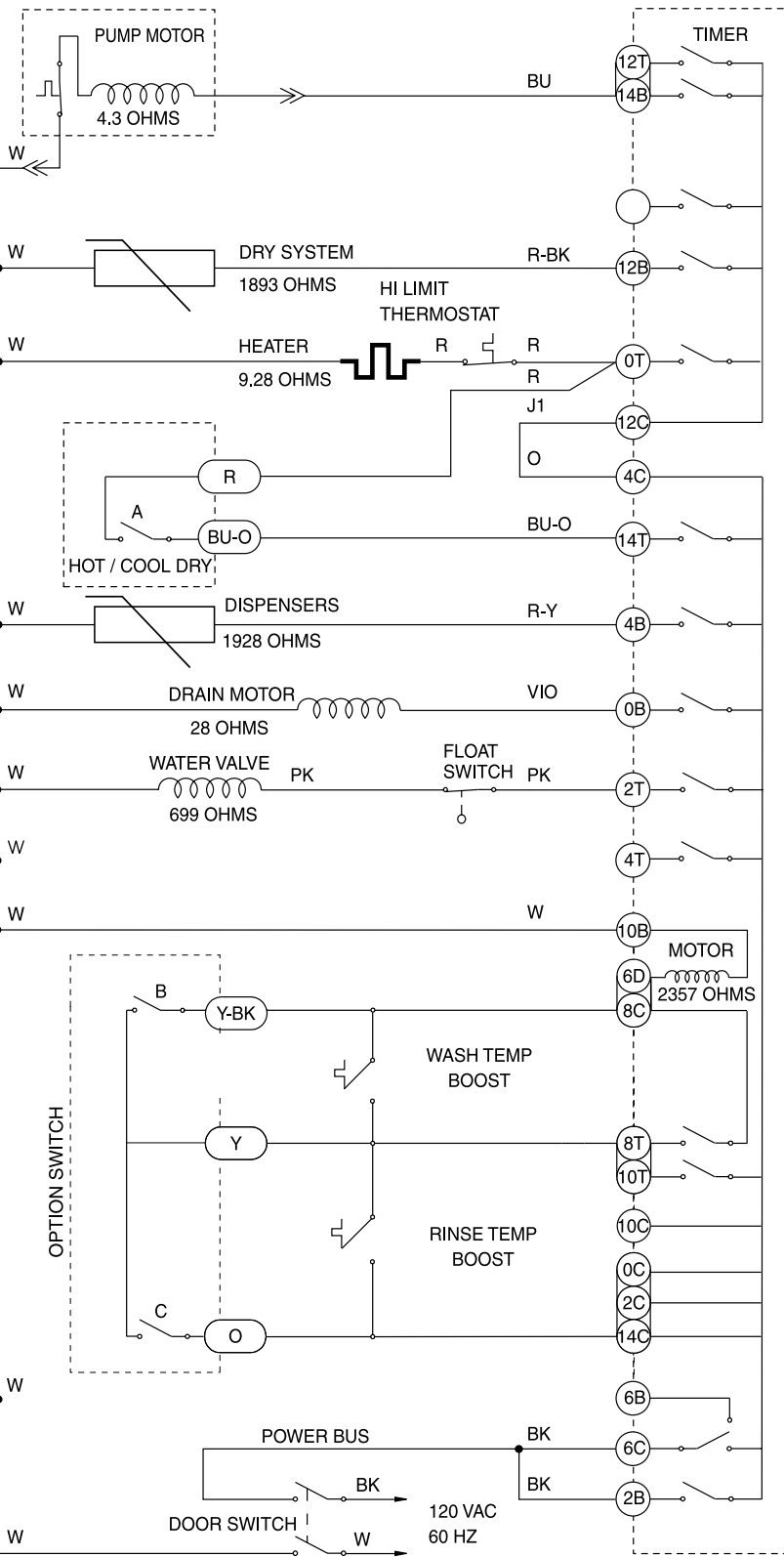
Timer Block



Cycle Chart



Wiring Diagram



SERVICE DATA SHEET

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P/N: 154383001

Amana P/N: 12425413SP

Amana

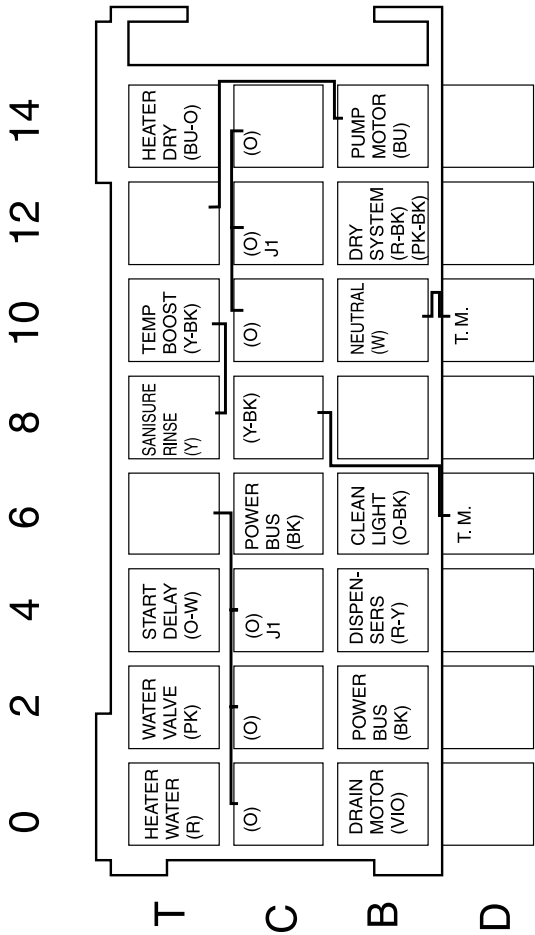
Model ADW65ORA

000706

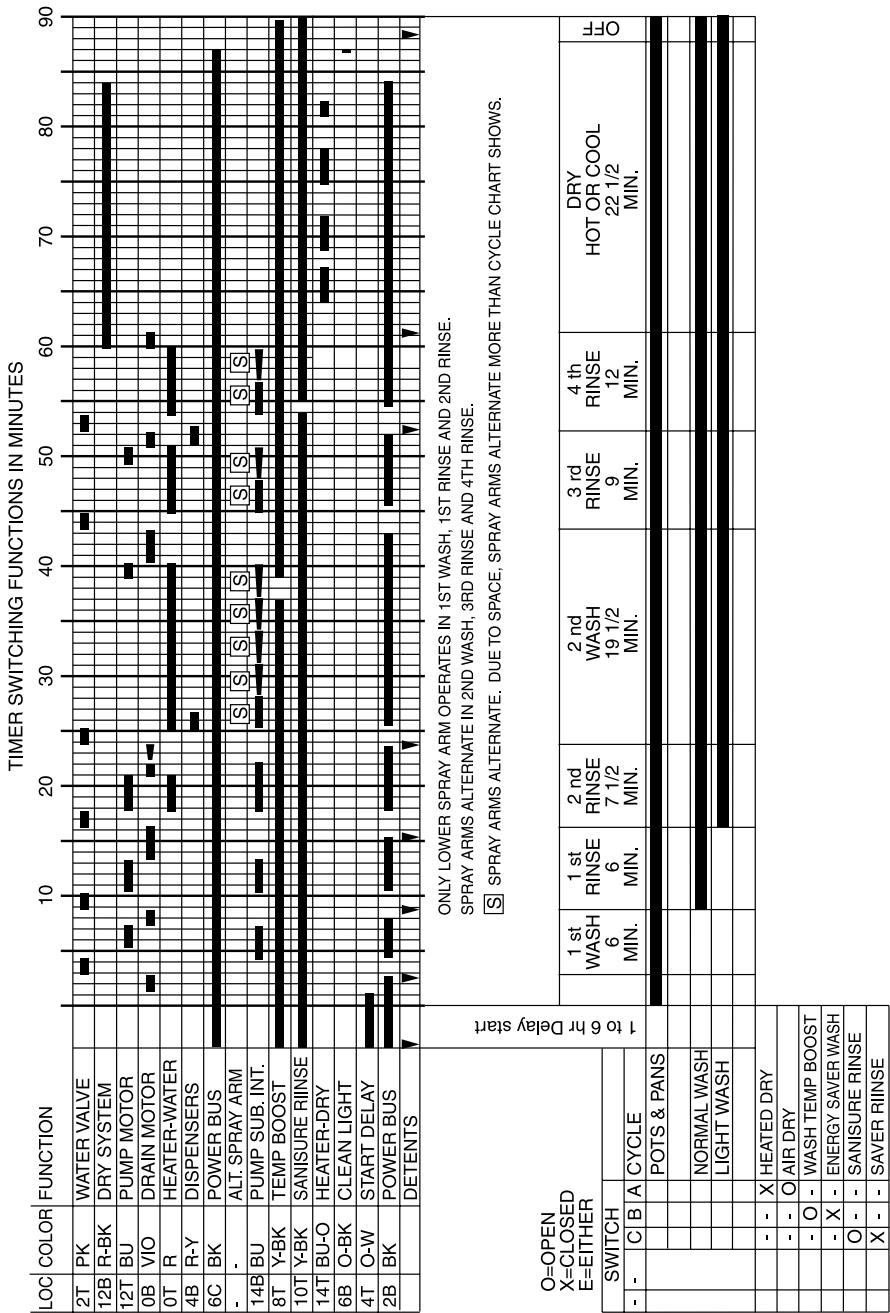
Color Code

BK.....Black	O.....Orange	R-BK.....Red/Black
BK-W.....Black/White	O-BK.....Orange/Black	R-W.....Red/White
BK-Y.....Black/Yellow	O-W.....Orange/White	R-Y.....Red/Yellow
BR.....Brown	PK.....Pink	VIO.....Violet
BR-W.....Brown/White	PK-BK.....Pink/Black	W.....White
BU.....Blue	PK-W.....Pink/White	Y.....Yellow
BU-O.....Blue/Orange	R.....Red	Y-BK.....Yellow/Black

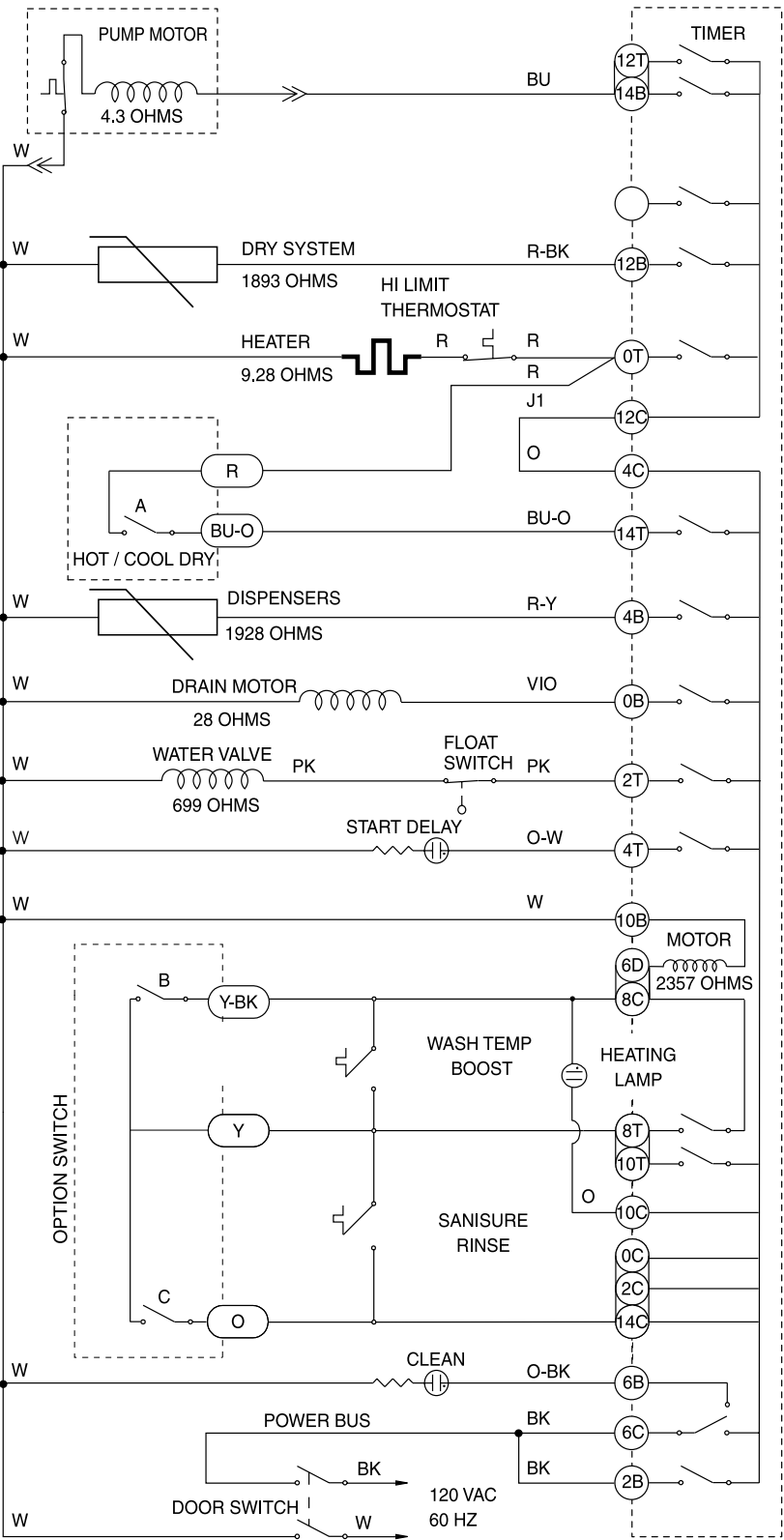
Timer Block



Cycle Chart



Wiring Diagram



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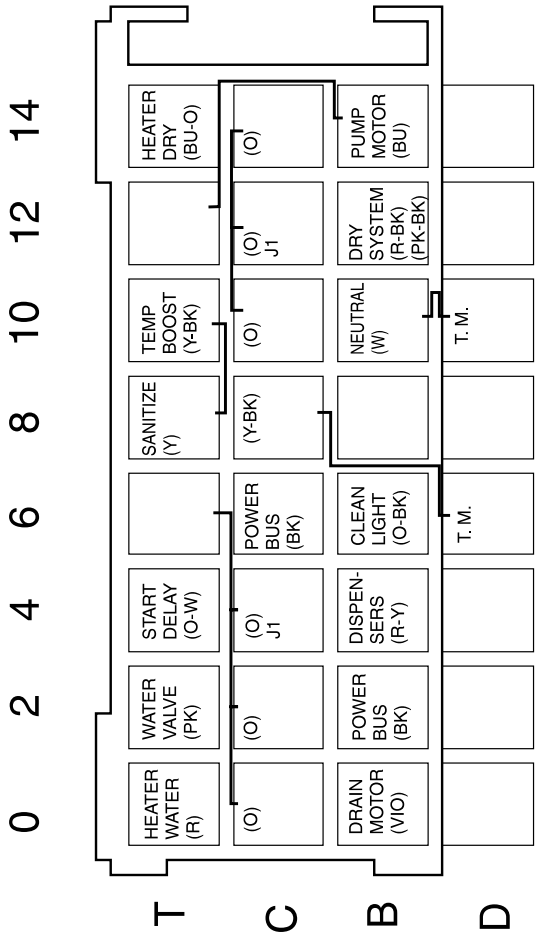
P/N: 154390501
Amana P/N: 12425415SP

Amana
Model ADW650RA
000925

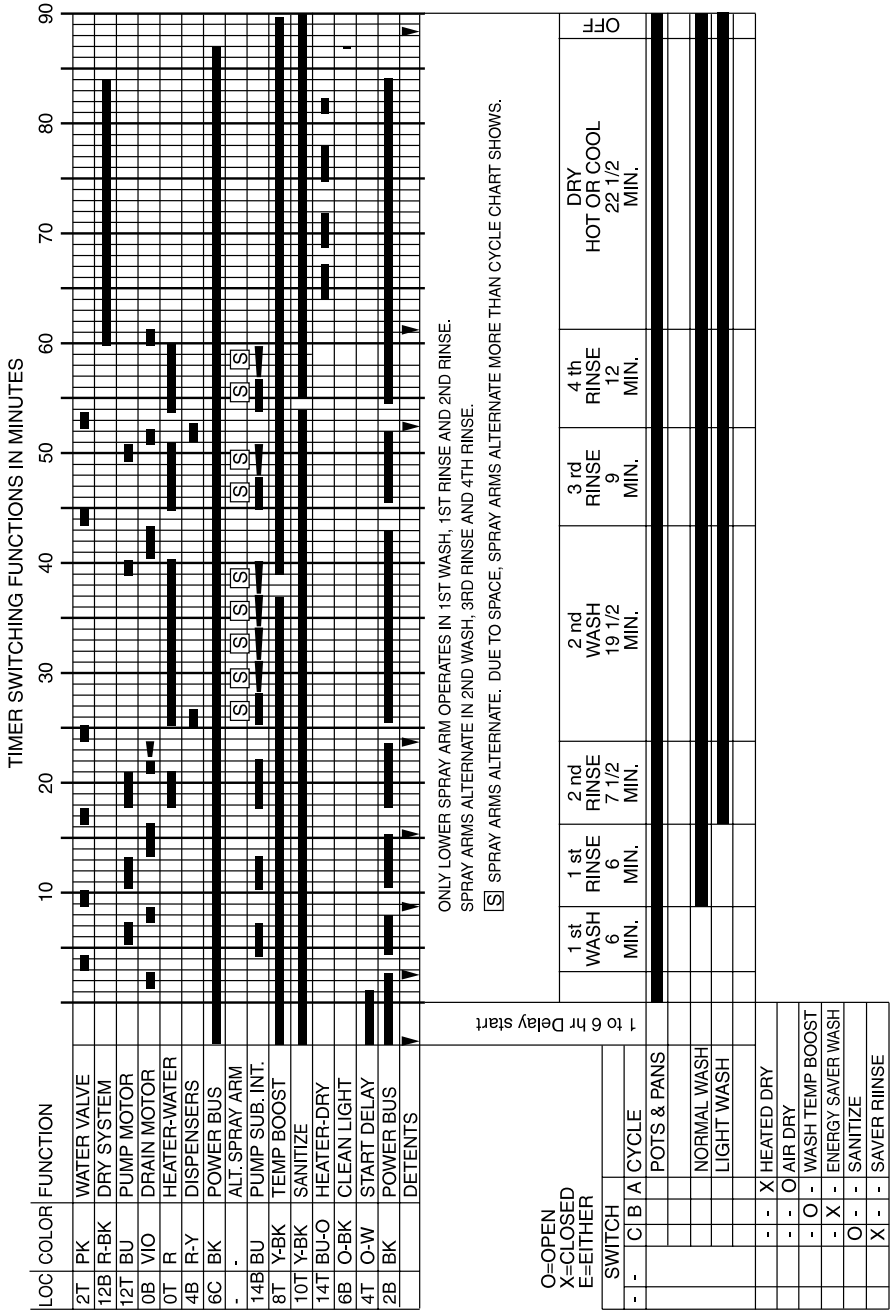
Color Code

BK.....Black	O.....Orange	R-BK.....Red/Black
BK-W.....Black/White	O-BK.....Orange/Black	R-W.....Red/White
BK-Y.....Black/Yellow	O-W.....Orange/White	R-Y.....Red/Yellow
BR.....Brown	PK.....Pink	VIO.....Violet
BR-W.....Brown/White	PK-BK.....Pink/Black	W.....White
BU.....Blue	PK-W.....Pink/White	Y.....Yellow
BU-O.....Blue/Orange	R.....Red	Y-BK.....Yellow/Black

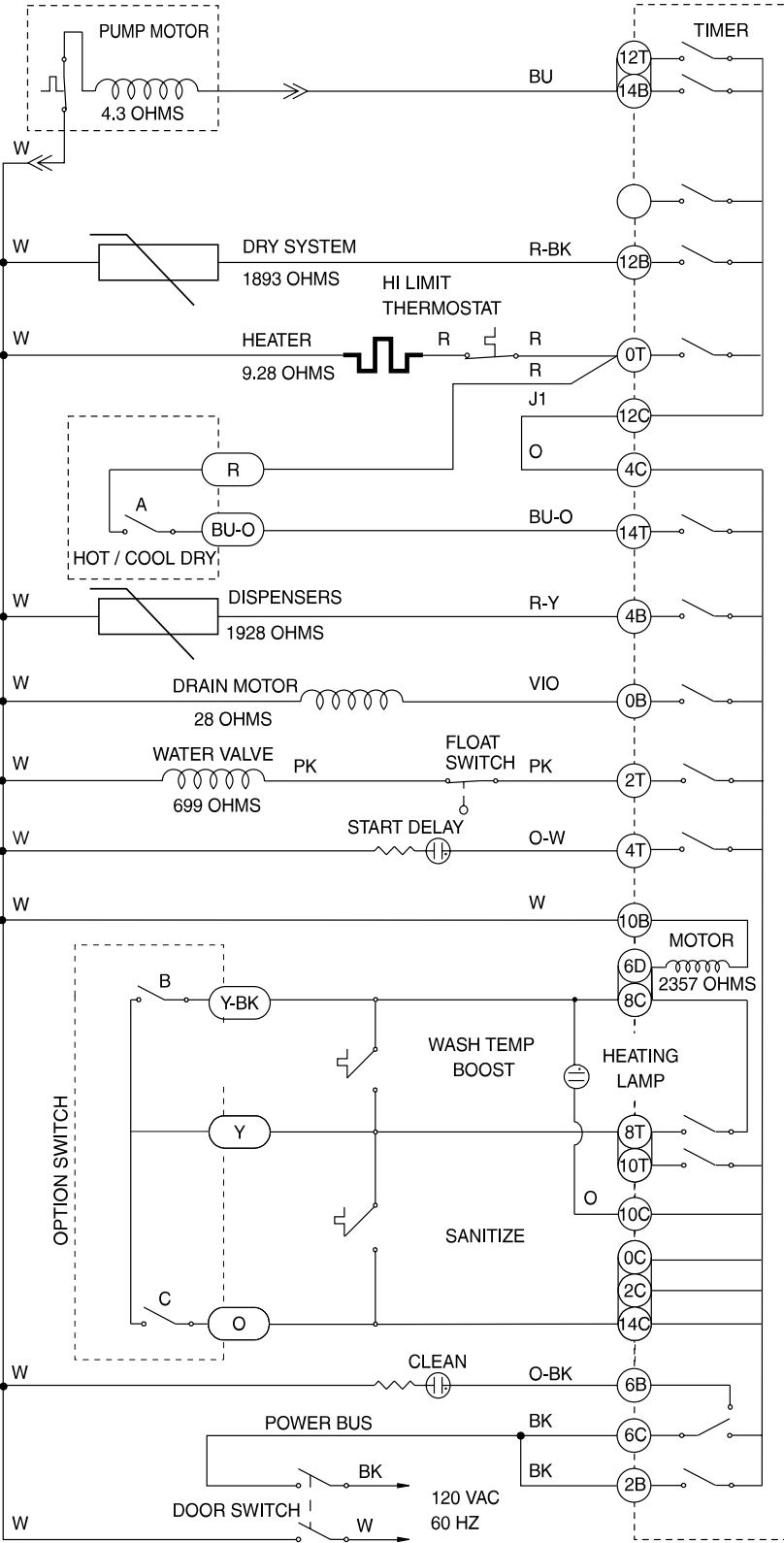
Timer Block



Cycle Chart



Wiring Diagram



SERVICE DATA SHEET

P/N: 154395901

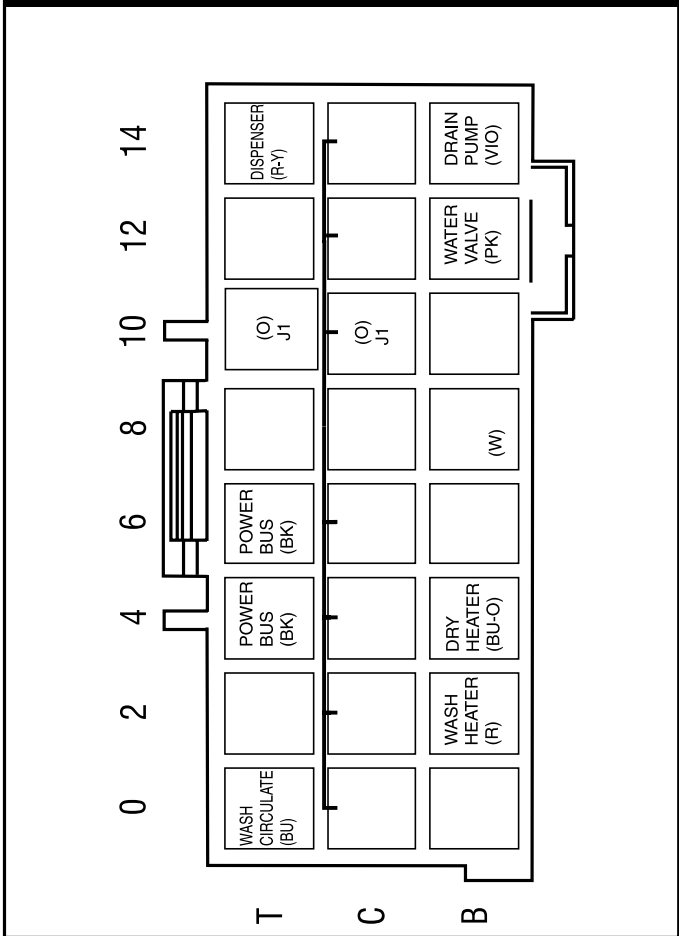
Models: F71C12, FDB125, MDB125

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Color Code

BK.....	Black	R.....	Red
BU.....	Blue	VIO.....	Violet
BU-O.....	Blue/Orange	W.....	White
O.....	Orange	R-Y.....	Red/Yellow
PK.....	Pink		

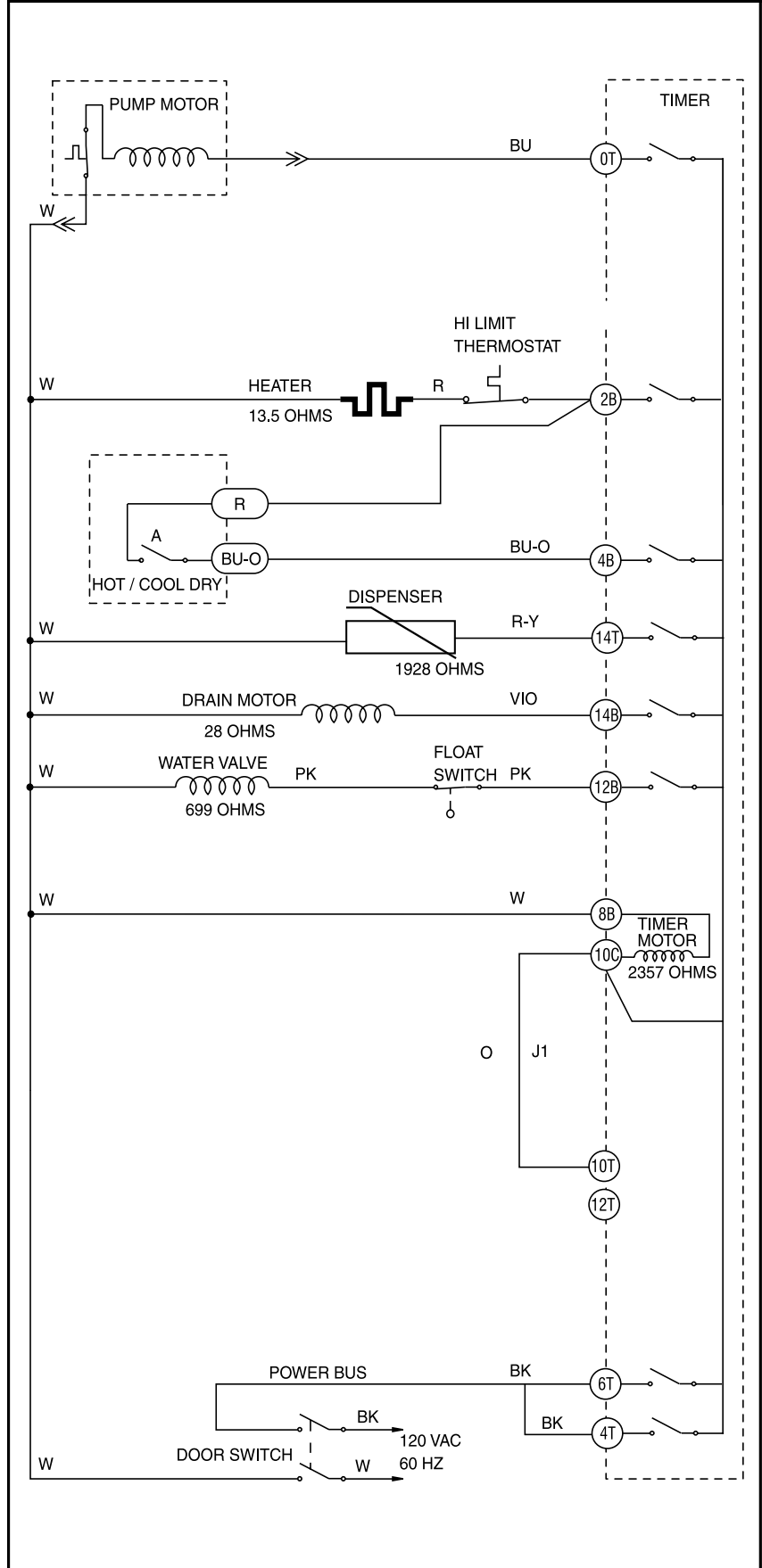
Timer Block



Cycle Chart

[illegible]

Wiring Diagram



SERVICE DATA SHEET

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P/N: 154396001

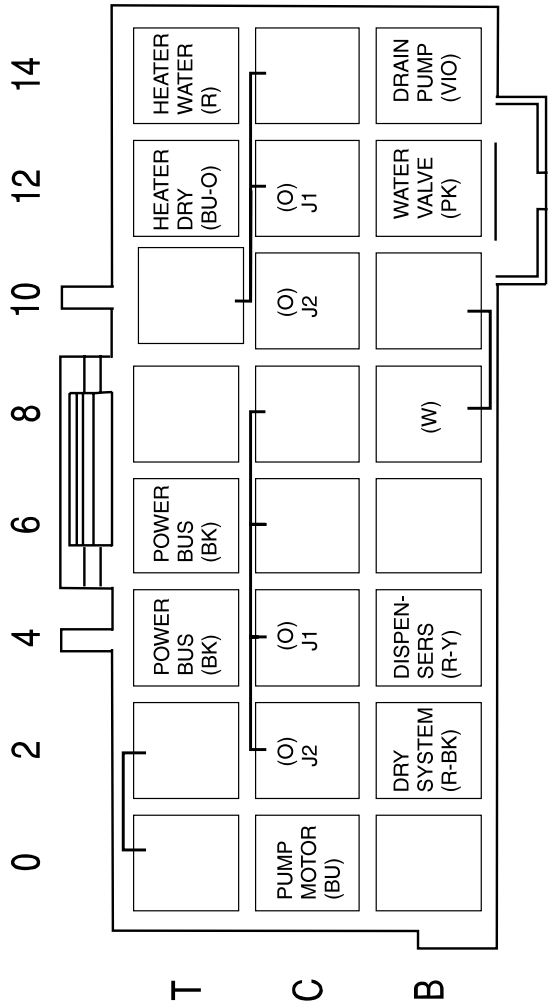
Models:
MDB122, MDB124

010302

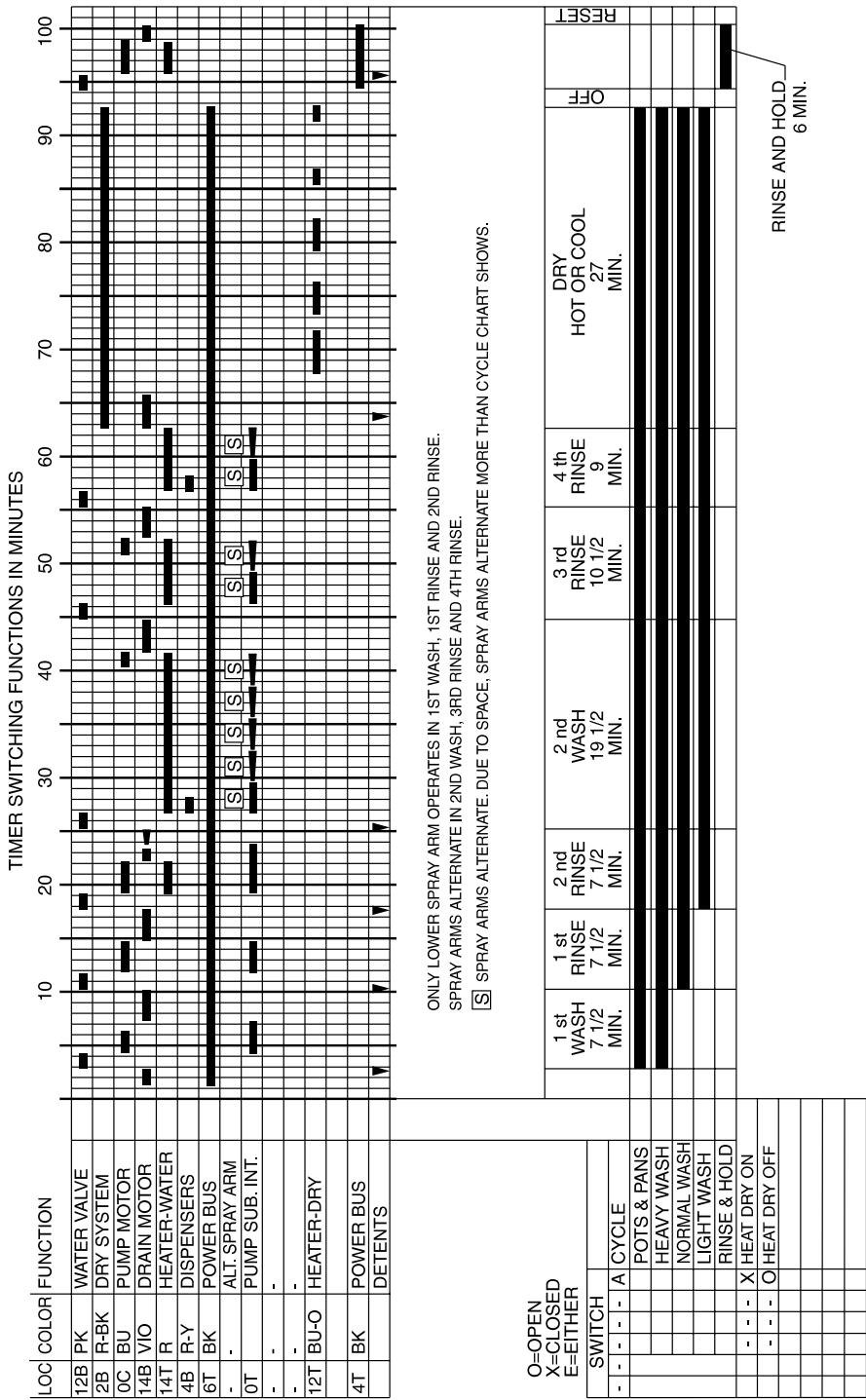
Color Code

BK.....Black PK.....Pink VIO.....Violet
BU.....Blue R.....Red W.....White
BU-O.....Blue/Orange R-BK.....Red/Black
O.....Orange R-Y.....Red/Yellow

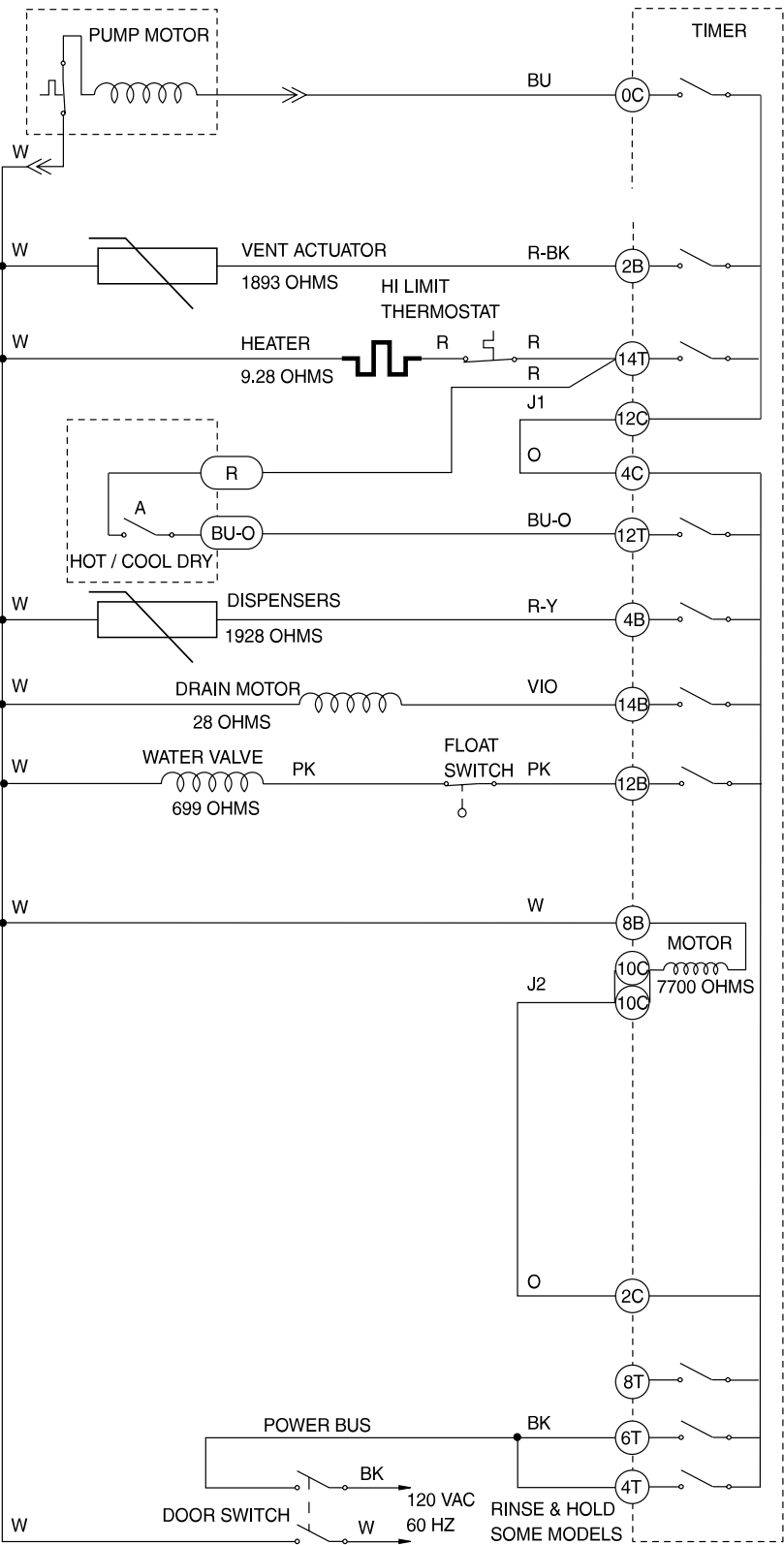
Timer Block



Cycle Chart



Wiring Diagram



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P/N: 154396201

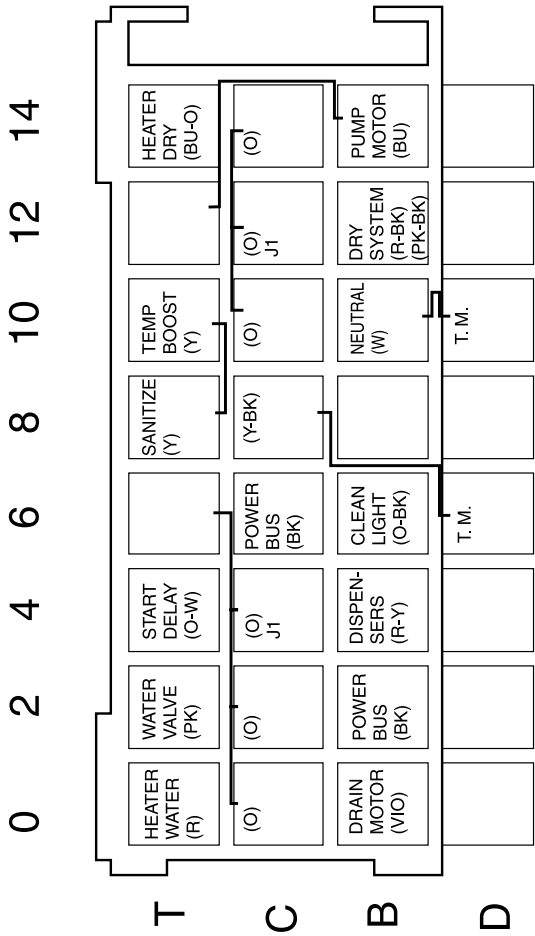
Models: 650 Series

010223

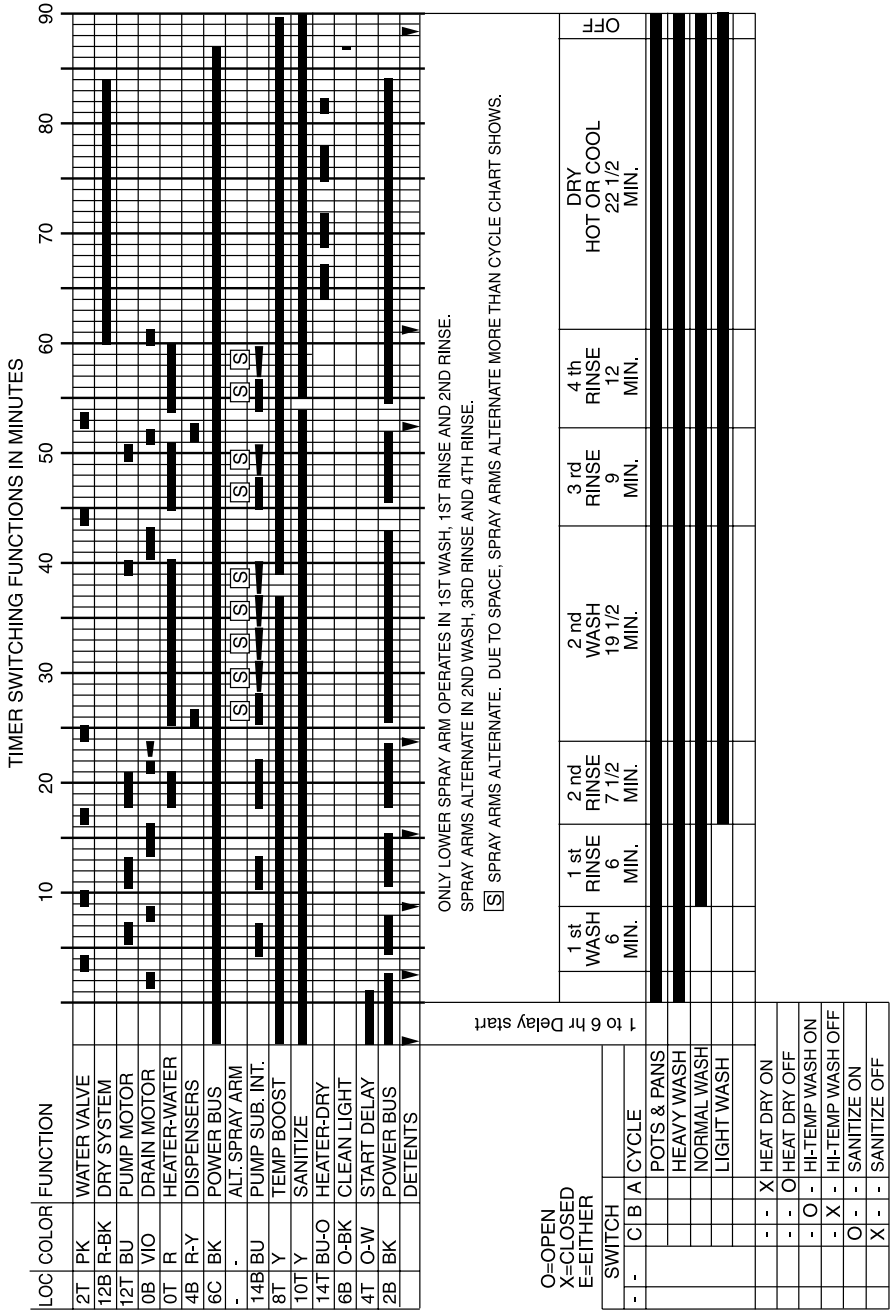
Color Code

BK..... Black
BU..... Blue
BU-O..... Blue/Orange
O..... Orange
O-BK..... Orange/Black
O-W..... Orange/White
PK..... Pink
PK-BK..... Pink/Black
R..... Red
R-BK..... Red/Black
R-Y..... Red/Yellow
VIO..... Violet
W..... White
Y..... Yellow
Y-BK..... Yellow/Black

Timer Block

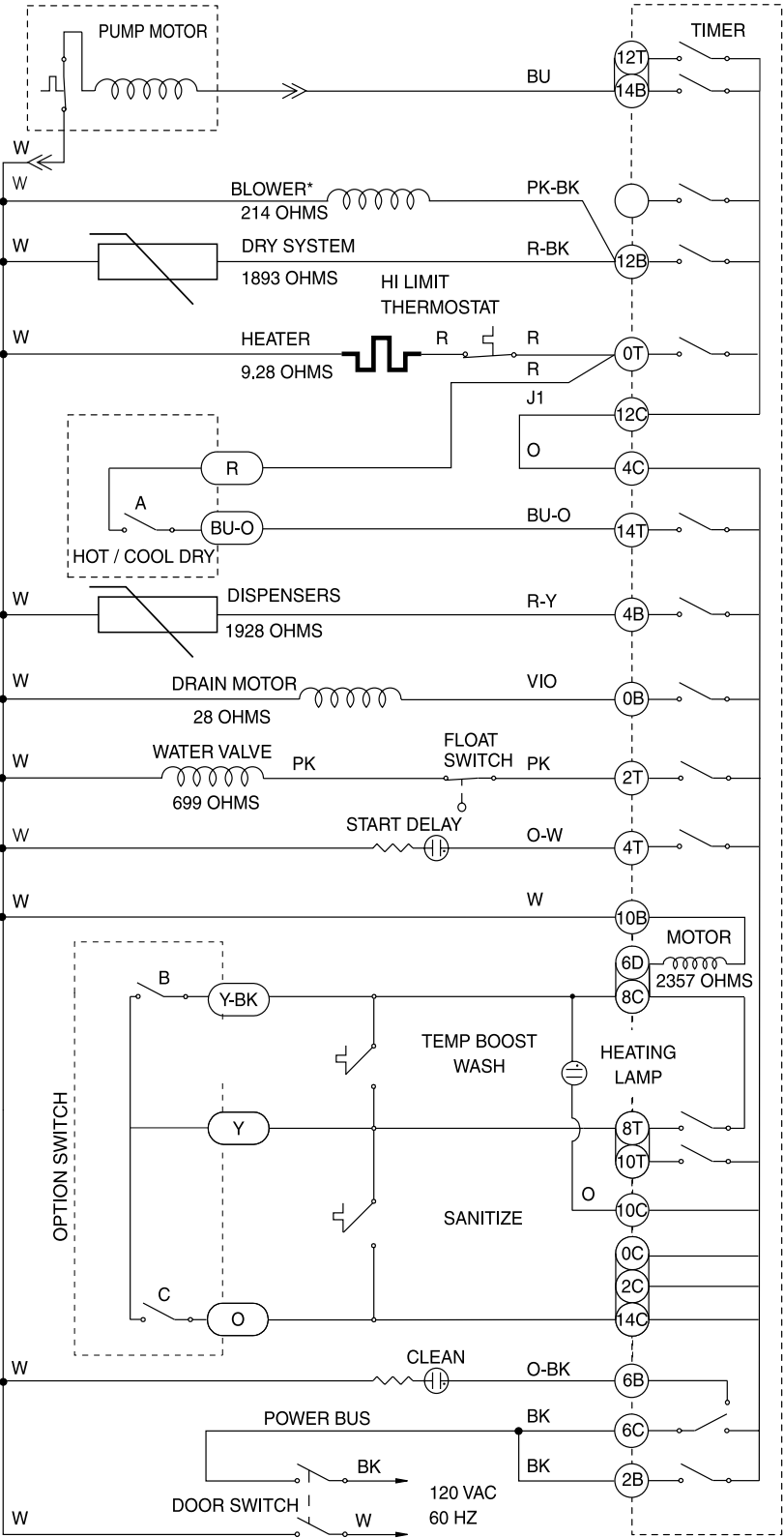


Cycle Chart



ONLY LOWER SPRAY ARM OPERATES IN 1ST WASH, 1ST RINSE AND 2ND RINSE.
SPRAY ARMS ALTERNATE IN 2ND WASH, 3RD RINSE AND 4TH RINSE.
[S] SPRAY ARMS ALTERNATE MORE THAN CYCLE CHART SHOWS.

Wiring Diagram



*Some Models.

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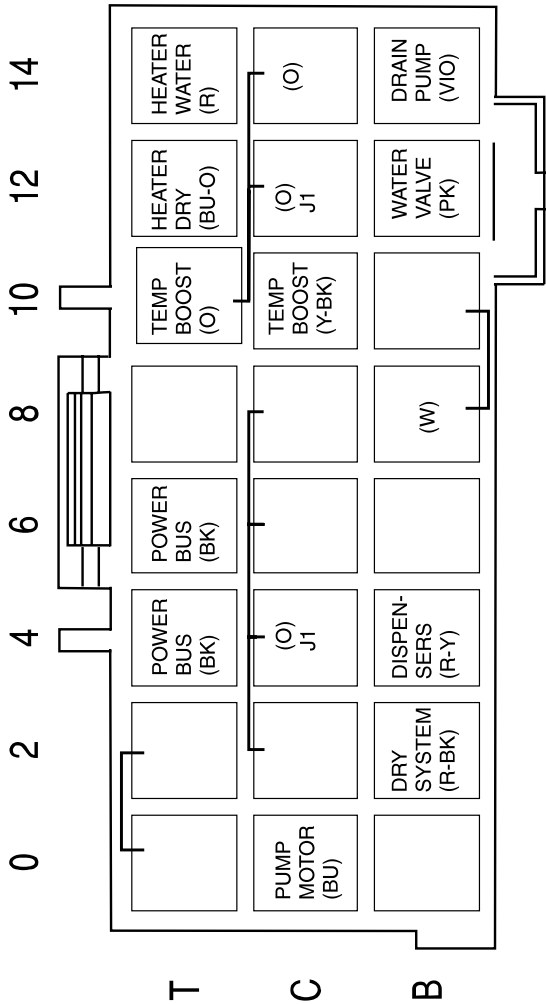
P/N: 154396301
Amana P/N: 12425419SP

Amana
Model: ADW350RA
010406

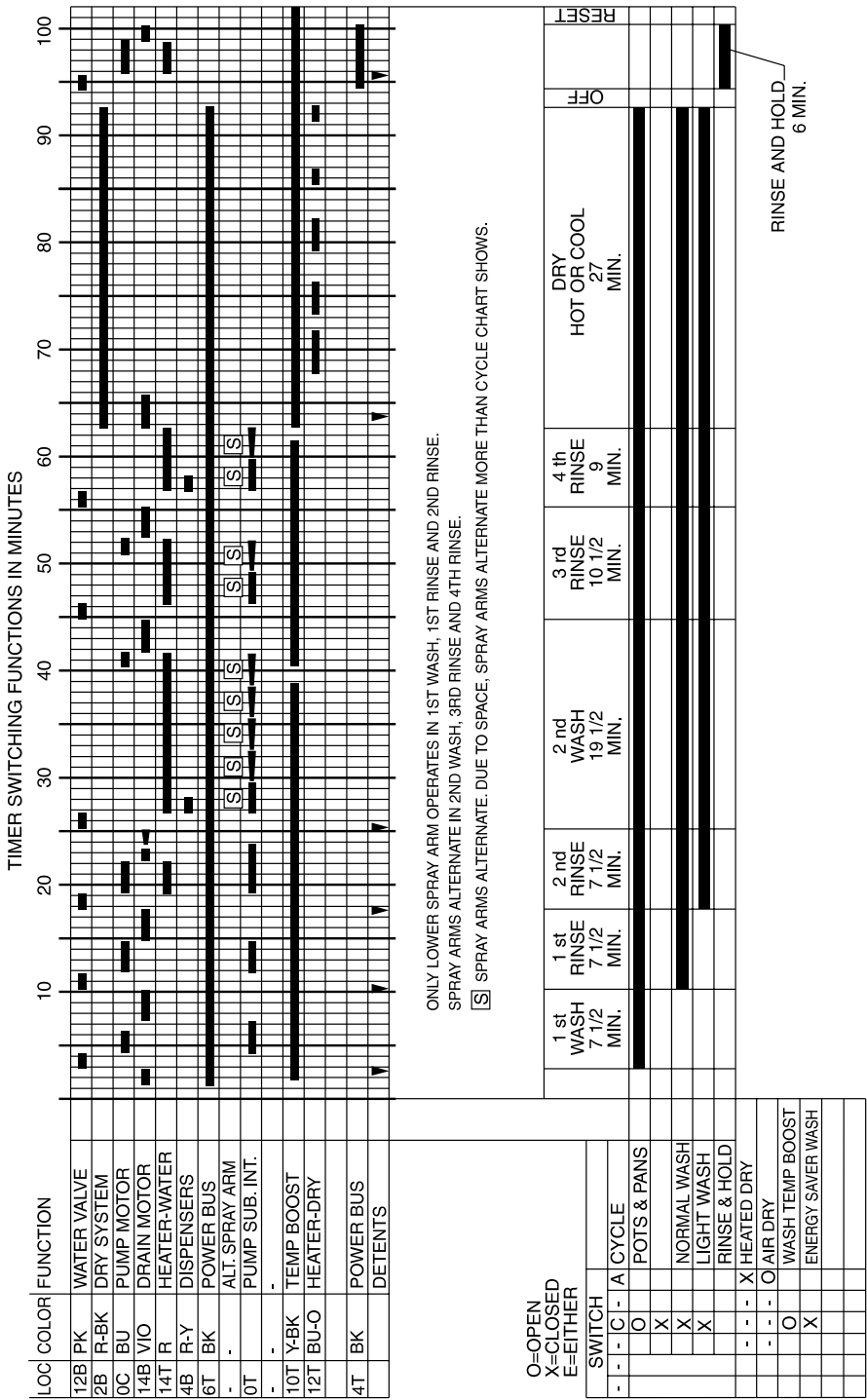
Color Code

BK..... Black PK.....Pink VIO.....Violet
BU.....Blue R.....Red W.....White
BU-O..... Blue/Orange R-BK.....Red/Black Y-BK..... Yellow/Black
O.....Orange R-Y.....Red/Yellow

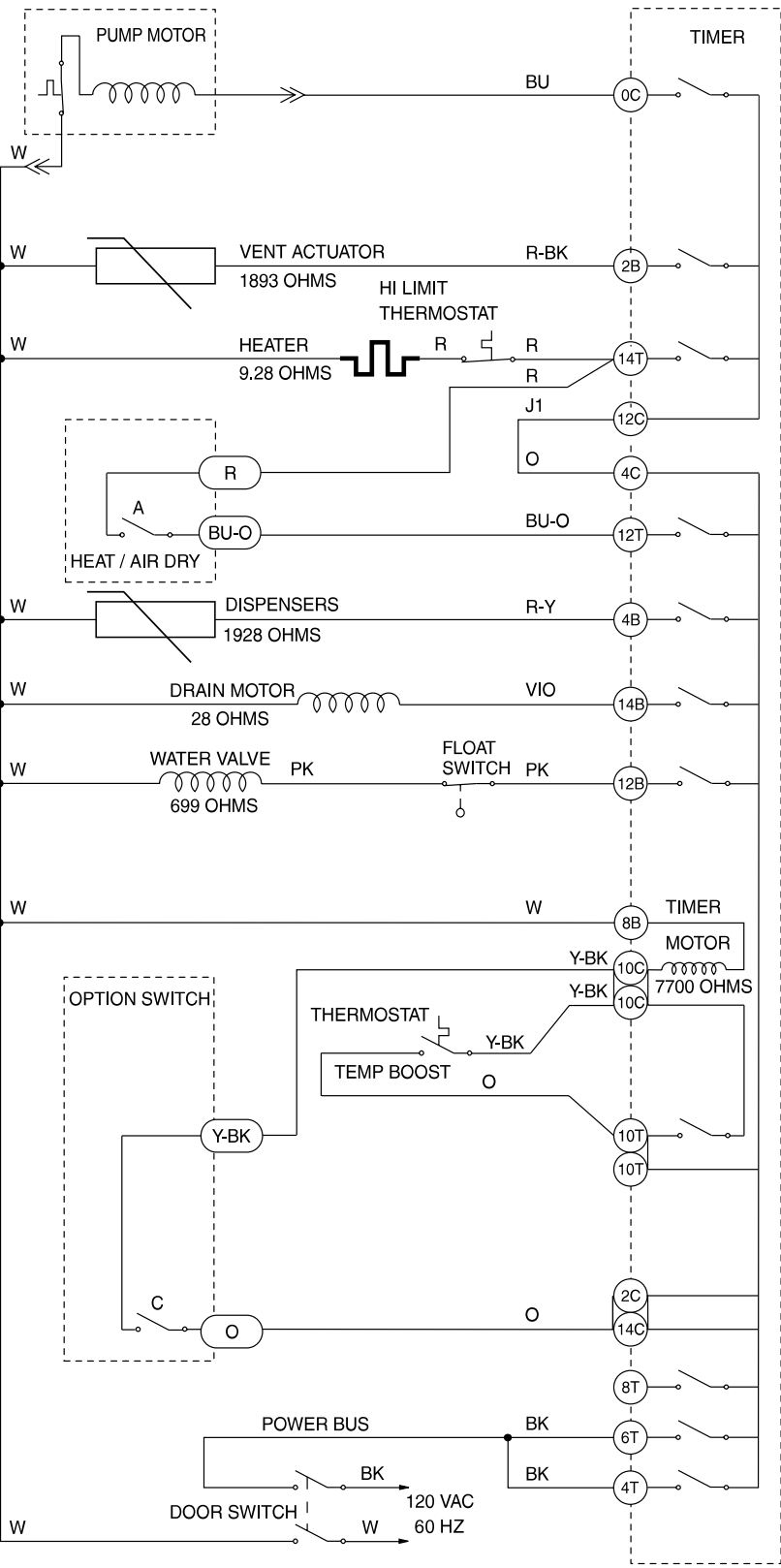
Timer Block



Cycle Chart



Wiring Diagram



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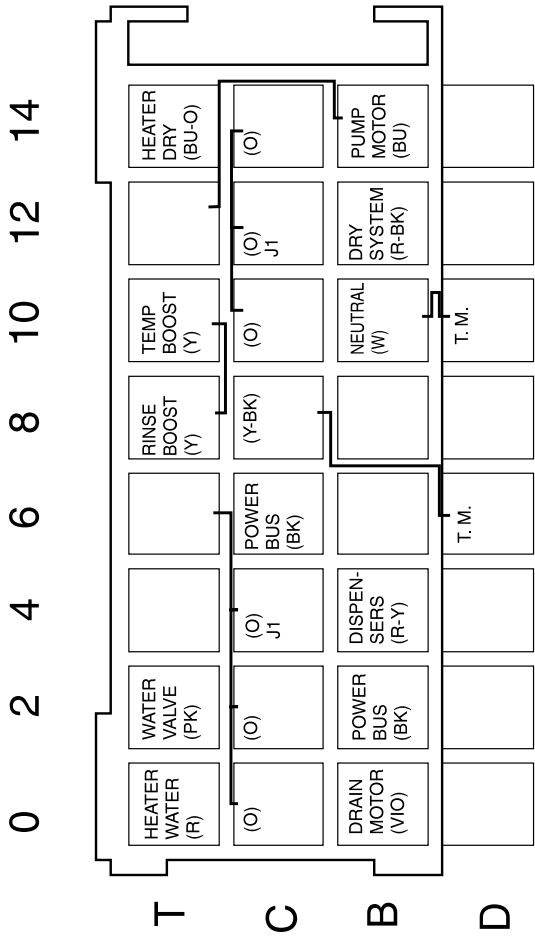
P/N: 154396401
Amana P/N: 12425418SP

Amana
Model ADW550RA
010406

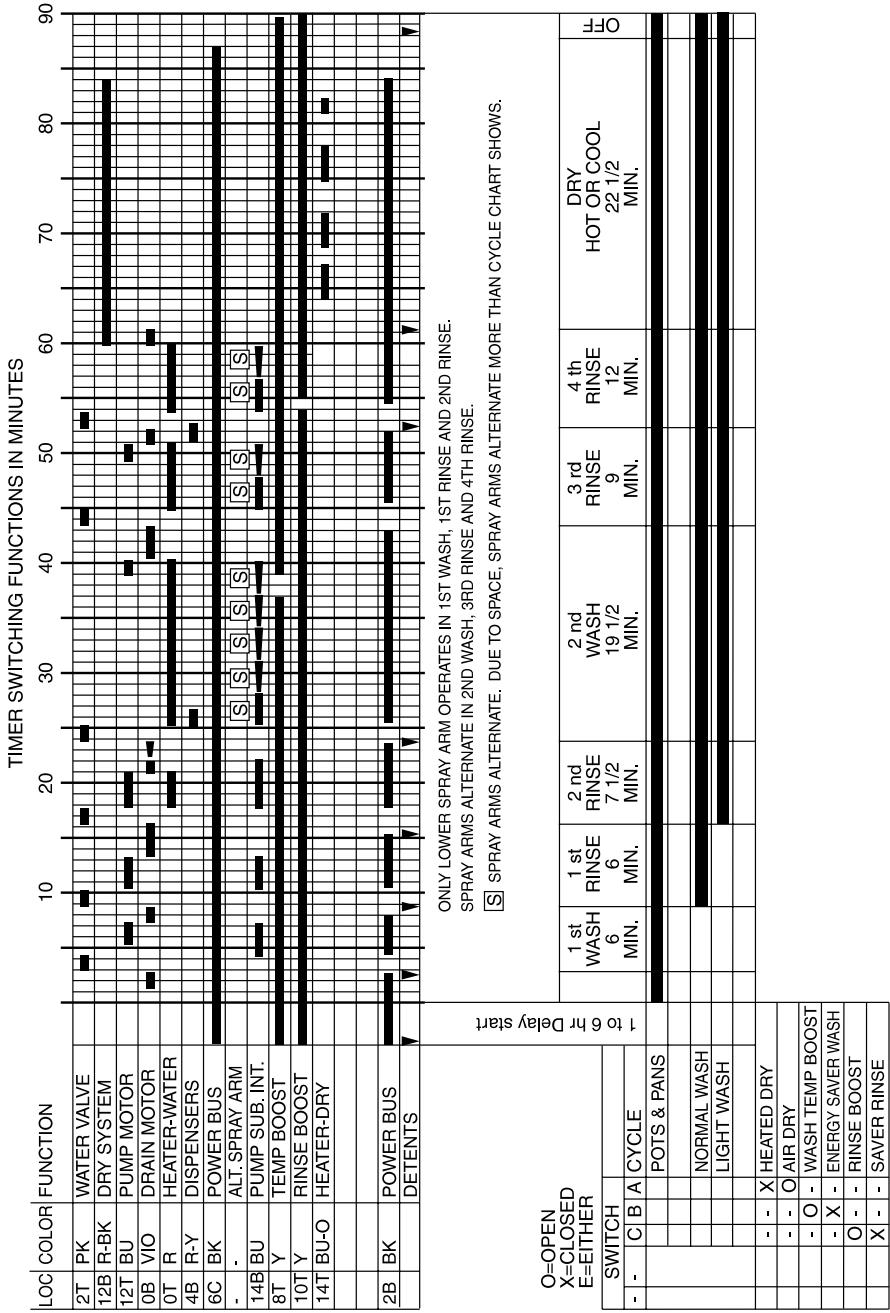
Color Code

BK..... Black PK.....Pink VIO.....Violet
BU.....Blue R.....Red W.....White
BU-O..... Blue/Orange R-BK.....Red/Black Y.....Yellow
O.....Orange R-Y.....Red/Yellow Y-BK..... Yellow/Black

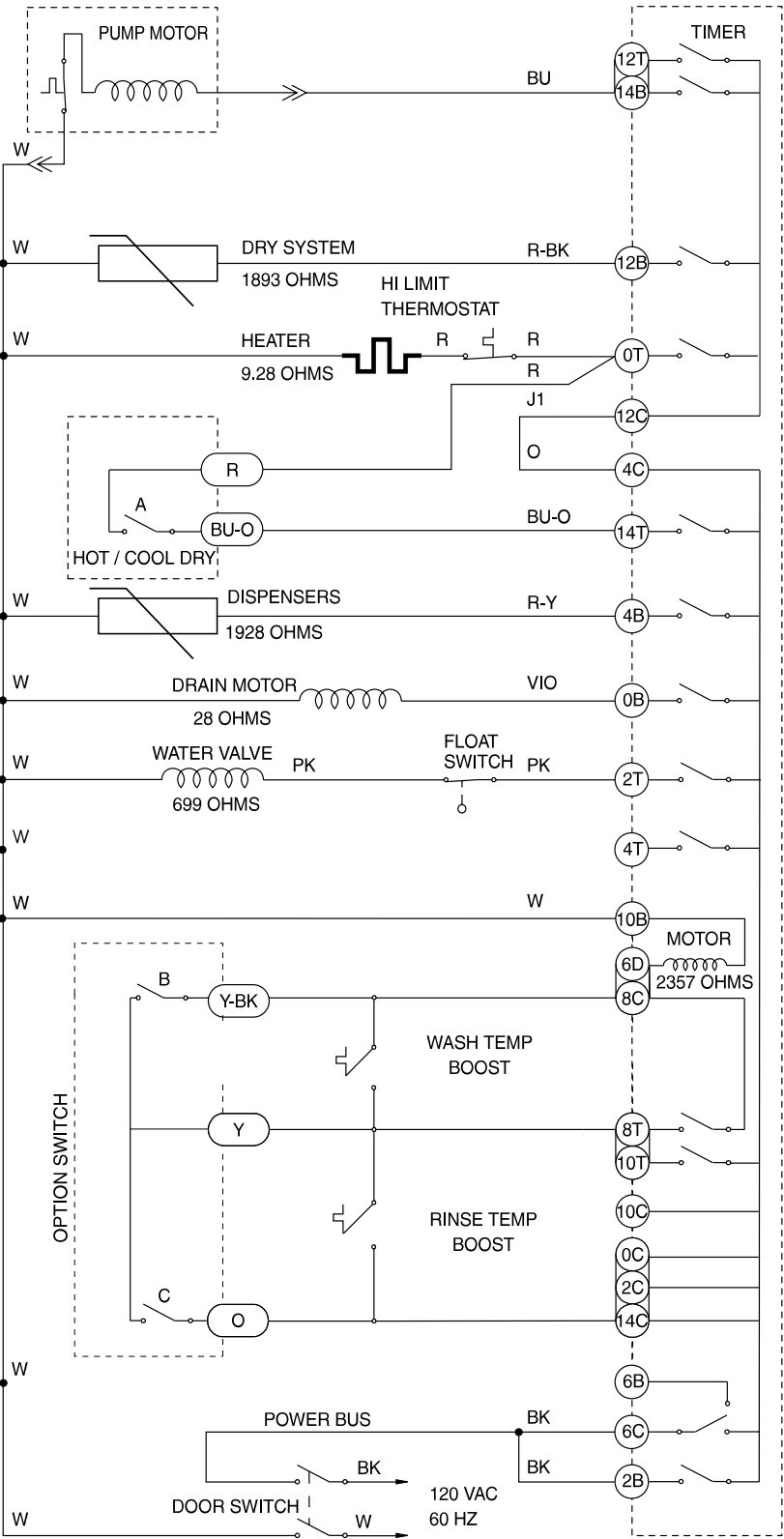
Timer Block



Cycle Chart



Wiring Diagram



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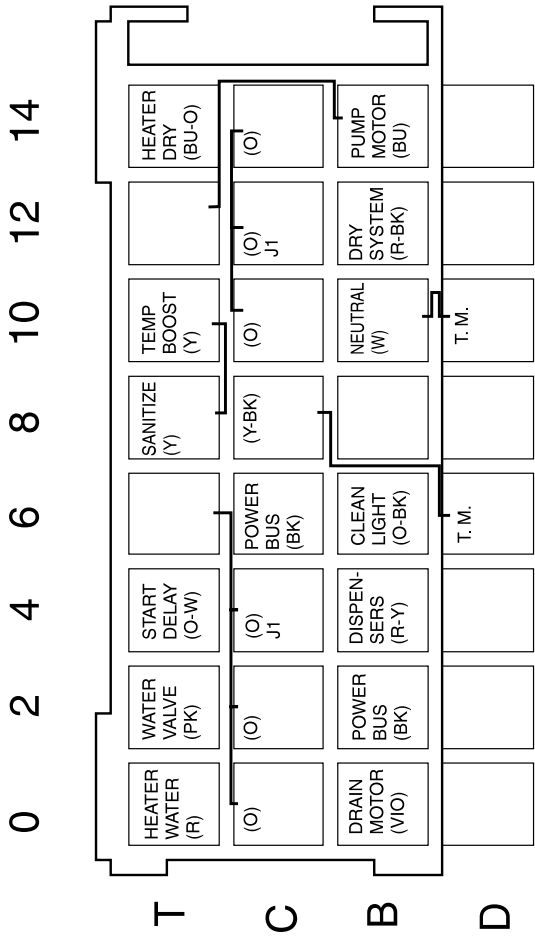
P/N: 154396501
Amana P/N: 12425417SP

Amana
Model ADW650RA
010409

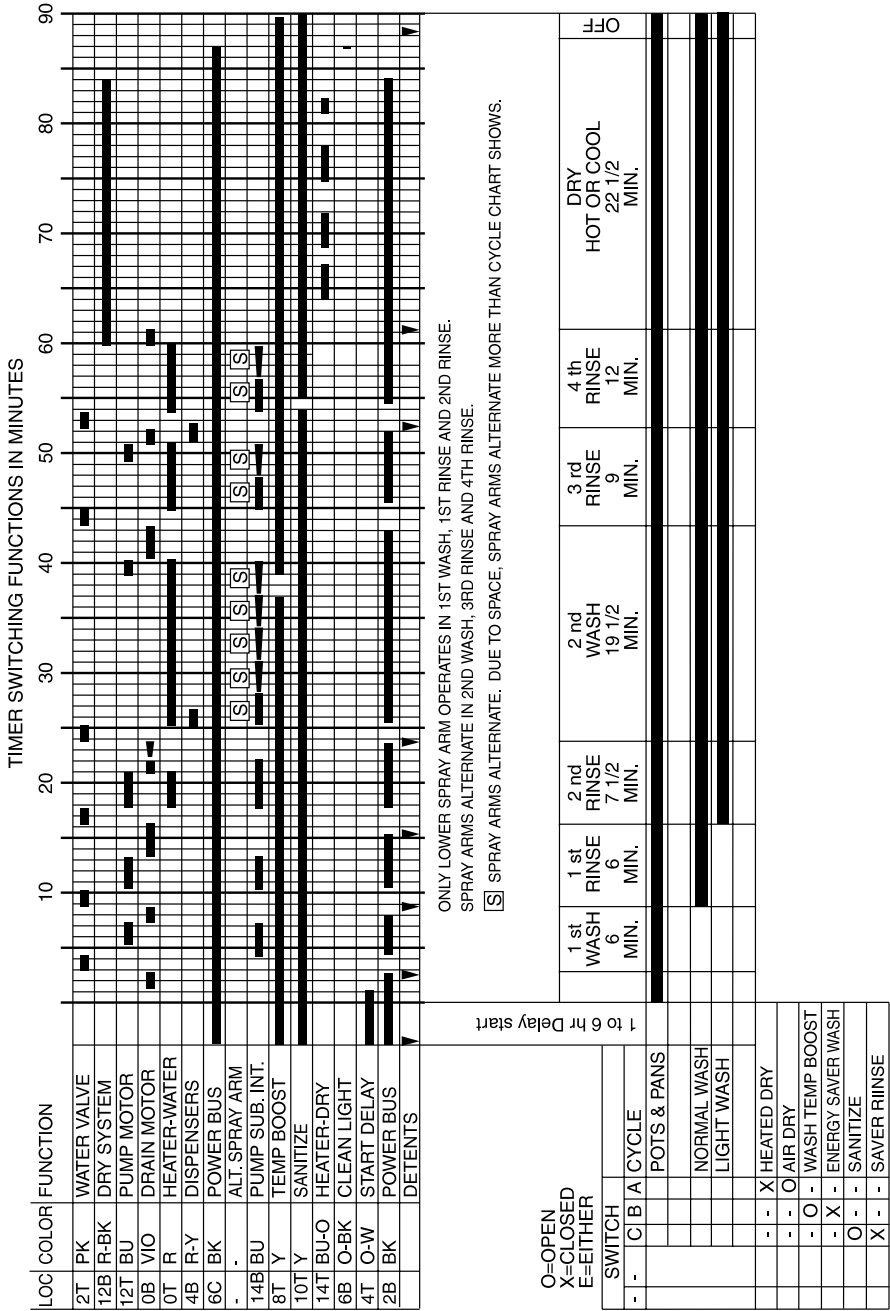
Color Code

BK.....Black O-W.....Orange/White VIO.....Violet
BU.....Blue PK.....Pink W.....White
BU-O.....Blue/Orange R.....Red Y.....Yellow
O.....Orange R-BK.....Red/Black Y-BK.....Yellow/Black
O-BK.....Orange/Black R-Y.....Red/Yellow

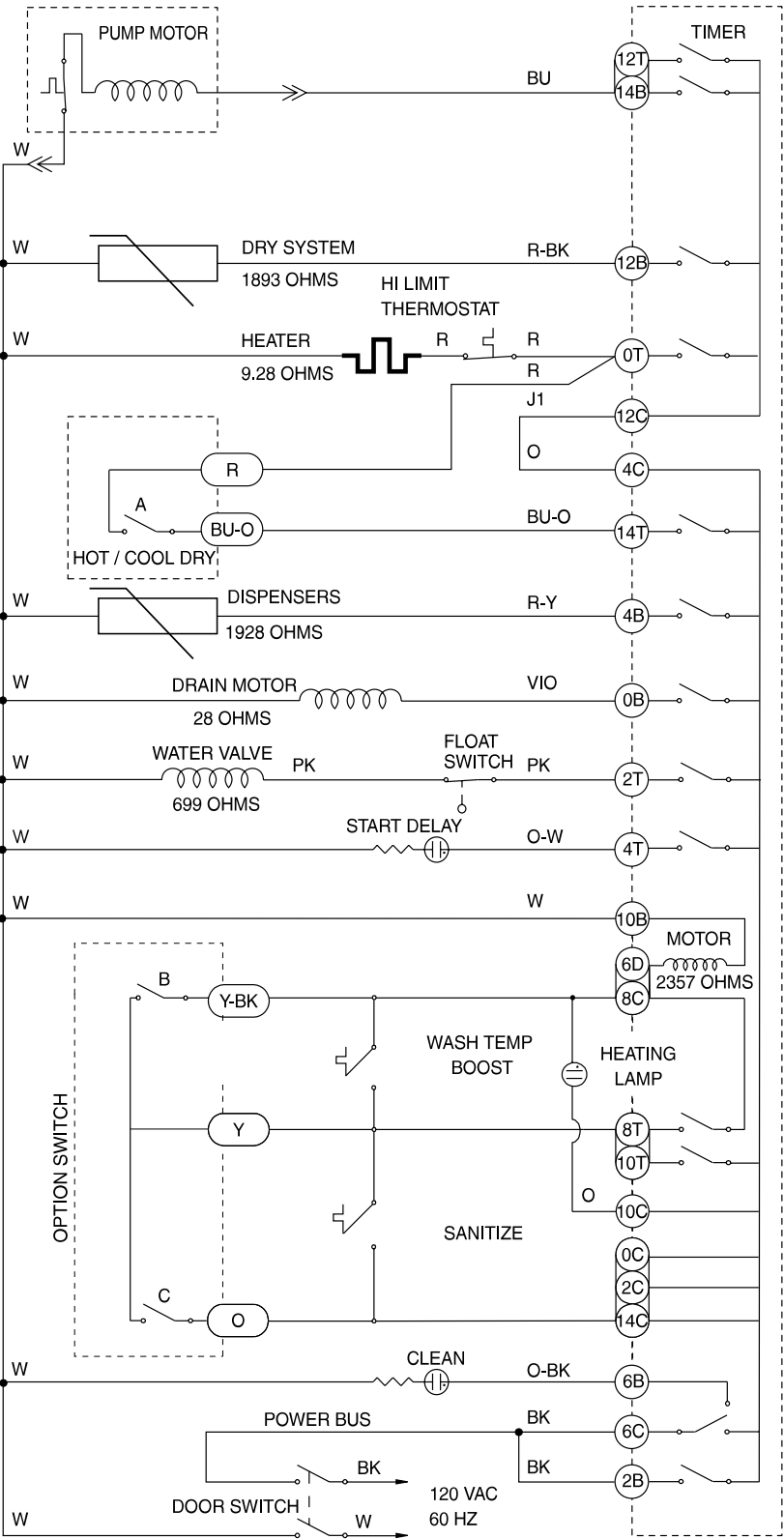
Timer Block



Cycle Chart



Wiring Diagram



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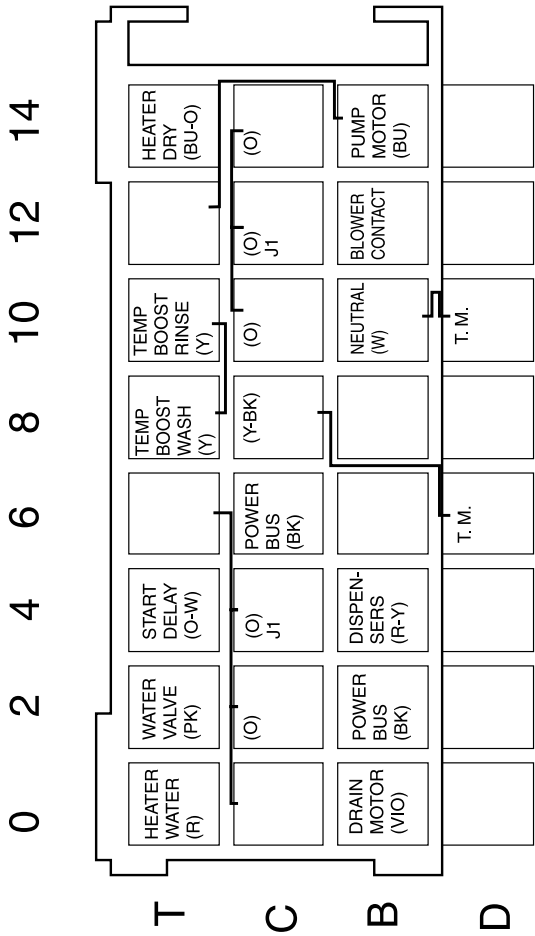
P/N: 154402401

010319

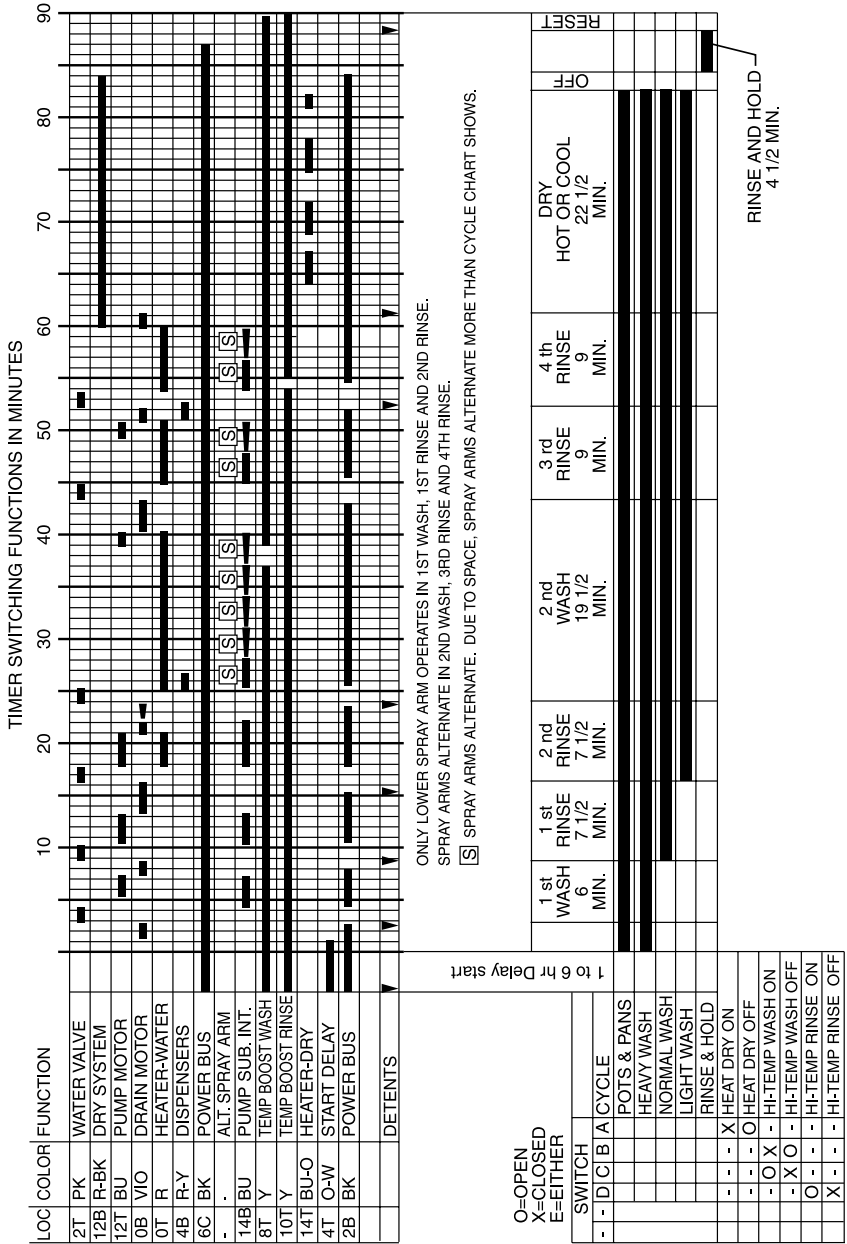
Color Code

BK.....Black
BU.....Blue
BU-O.....Blue/Orange
O.....Orange
O-W.....Orange/White
PK.....Pink
R.....Red
R-Y.....Red/Yellow
VIO.....Violet
W.....White
Y.....Yellow
Y-BK.....Yellow/Black

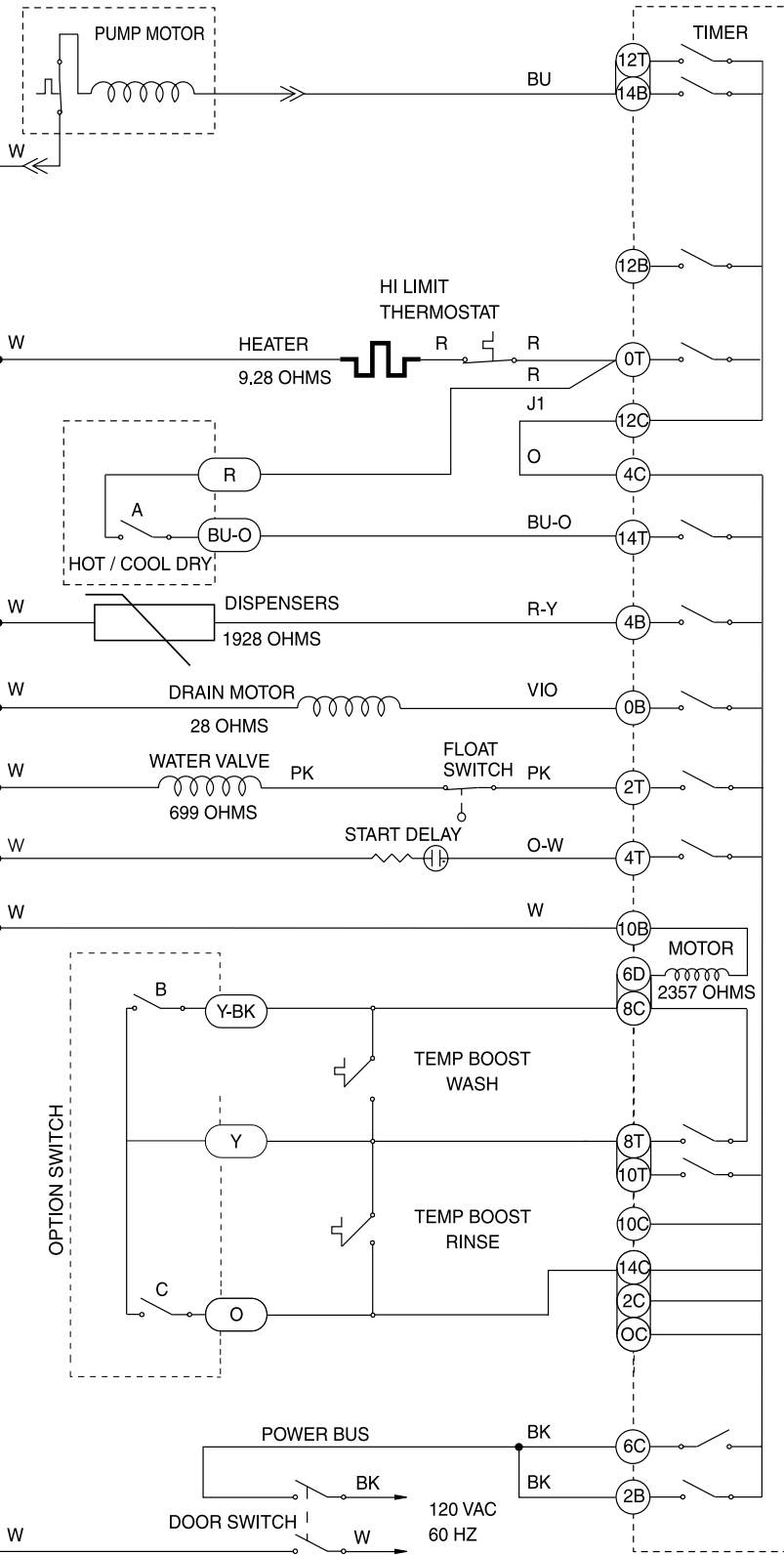
Timer Block



Cycle Chart



Wiring Diagram



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P/N: 154403001

010322

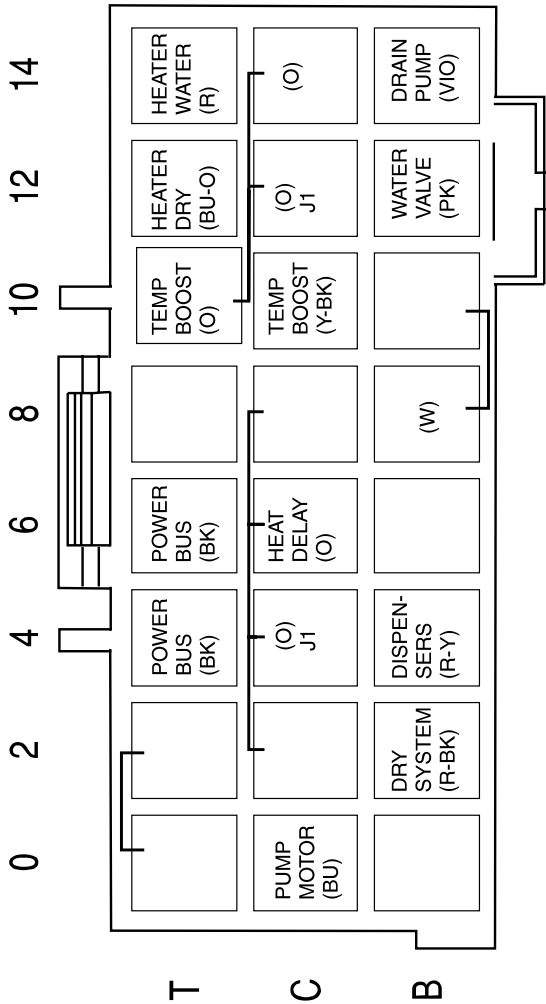
Color Code

BK.....Black
BU.....Blue
BU-O.....Blue/Orange
O.....Orange

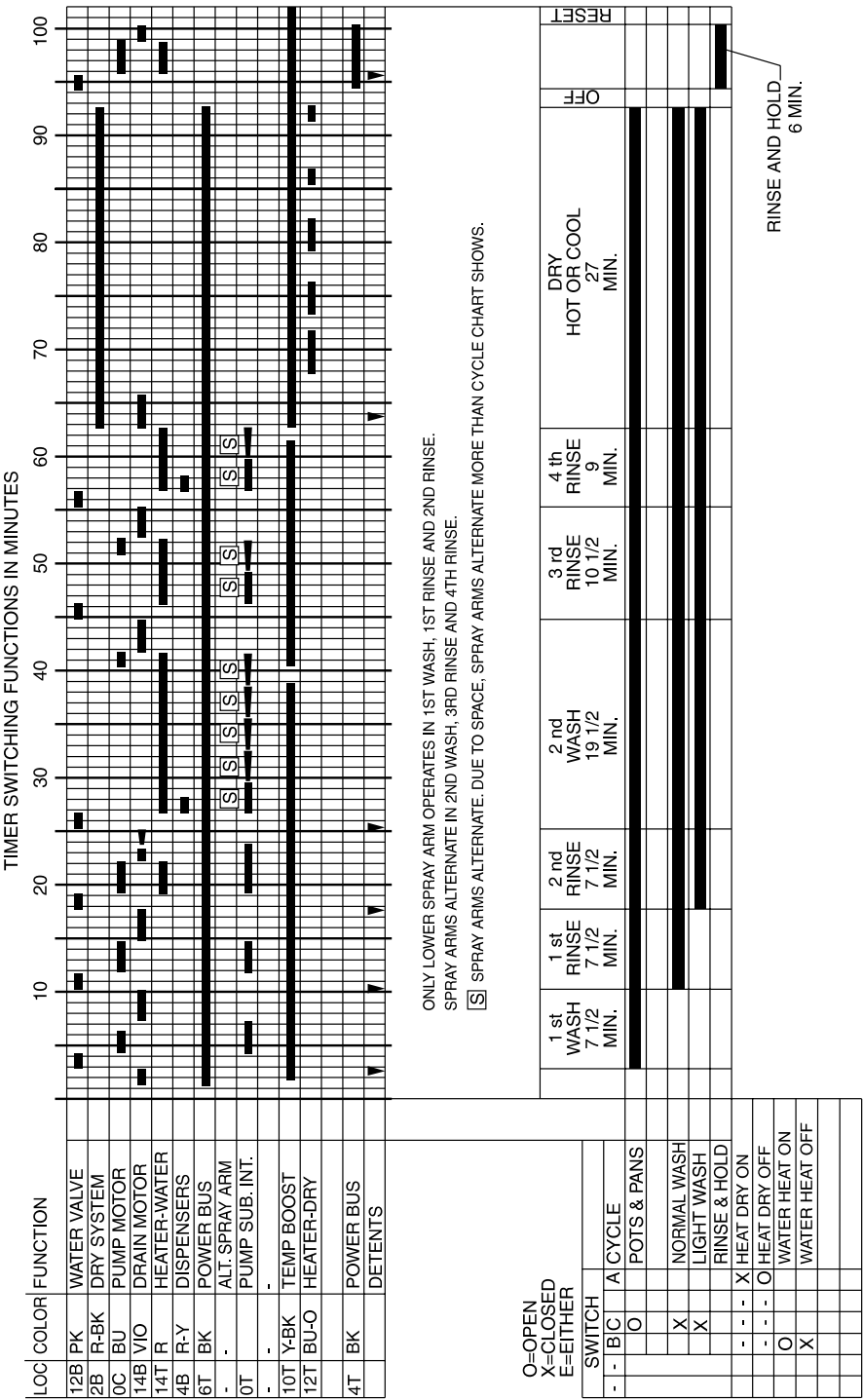
PK.....Pink
R.....Red
R-BK.....Red/Black
R-Y.....Red/Yellow

VIO.....Violet
W.....White
Y-BK.....Yellow/Black

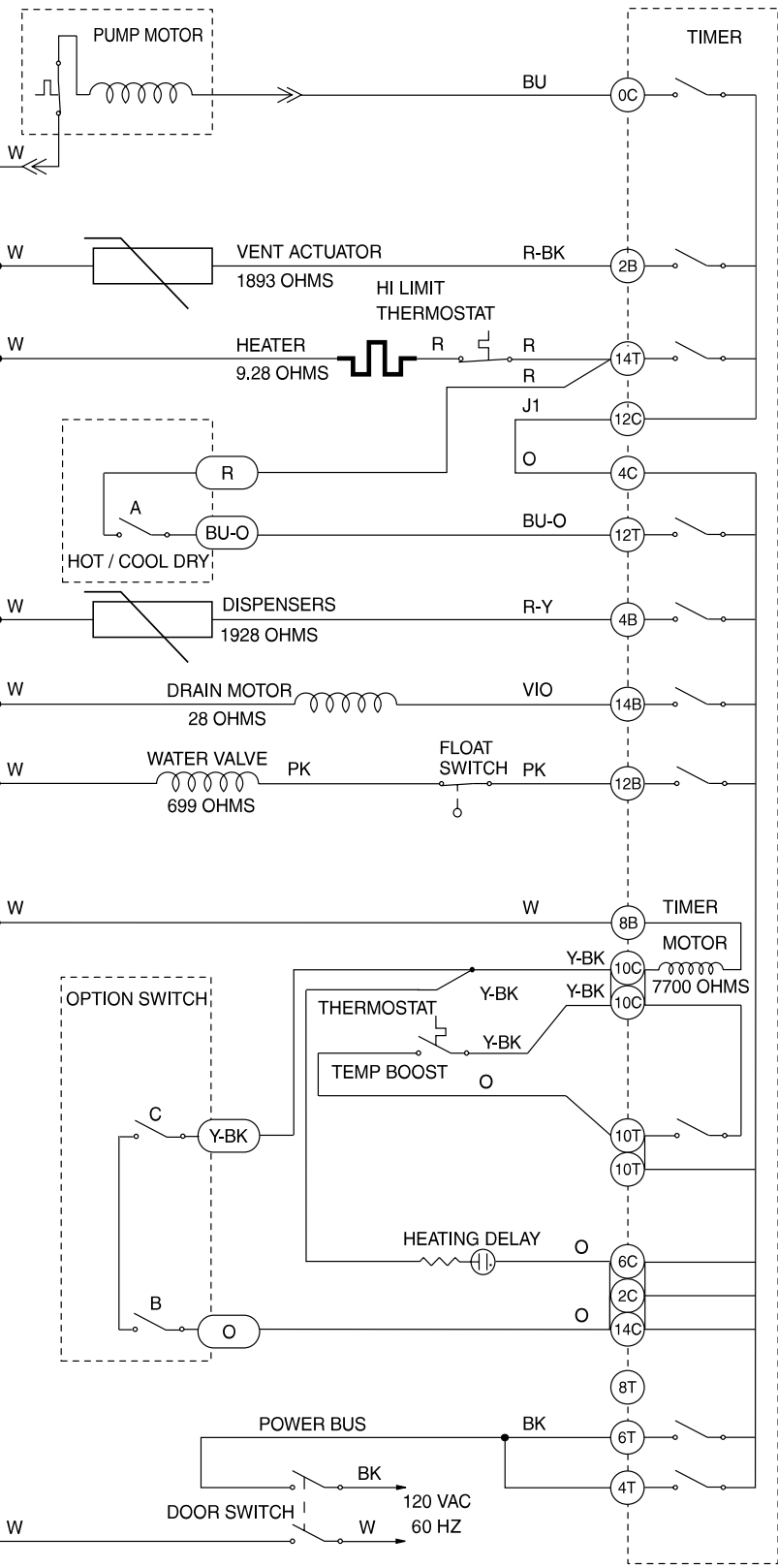
Timer Block



Cycle Chart



Wiring Diagram



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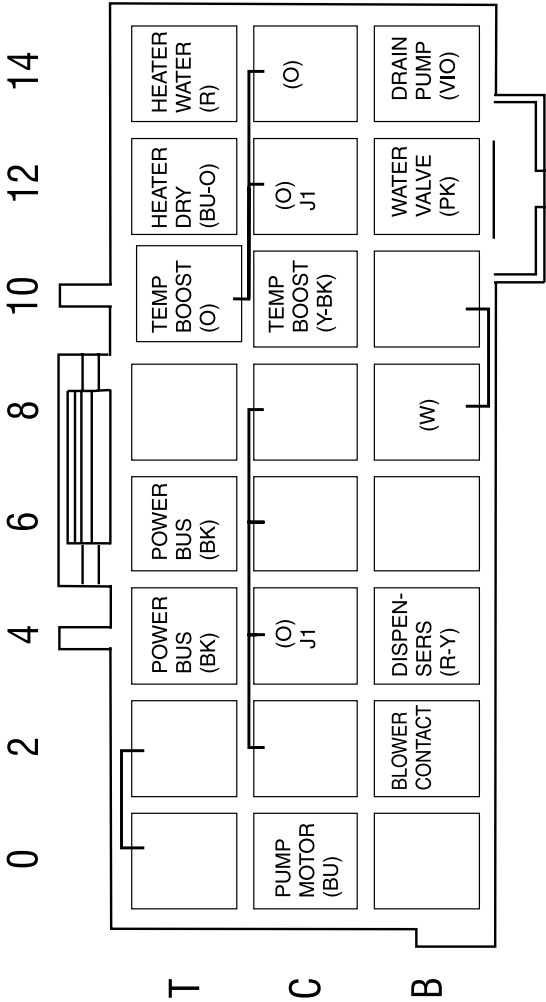
P/N: 154403801

010330

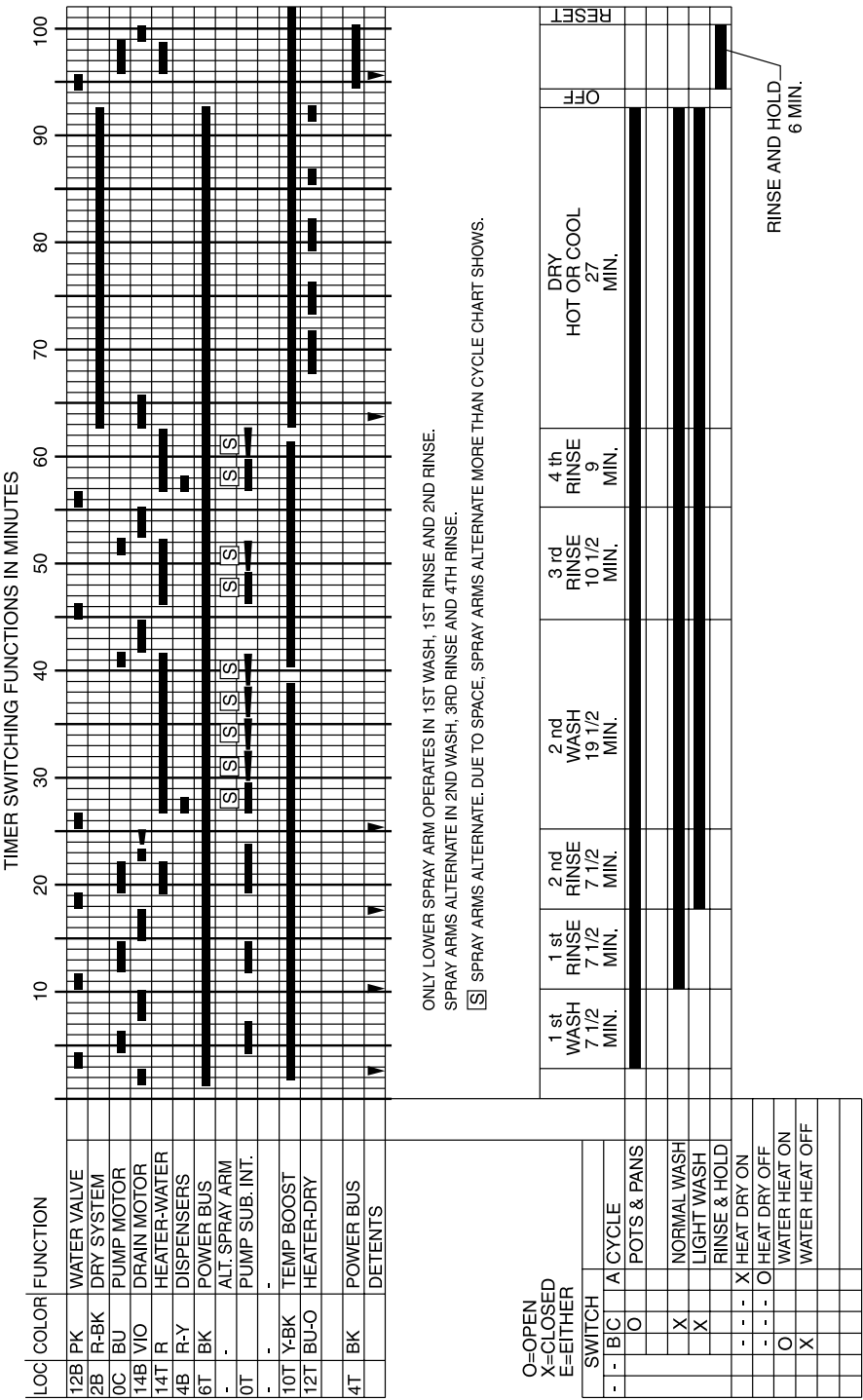
Color Code

BK.....Black PK.....Pink W.....White
BU.....Blue R.....Red Y-BK.....Yellow/Black
BU-O.....Blue/Orange R-Y.....Red/Yellow
O.....Orange VIO.....Violet

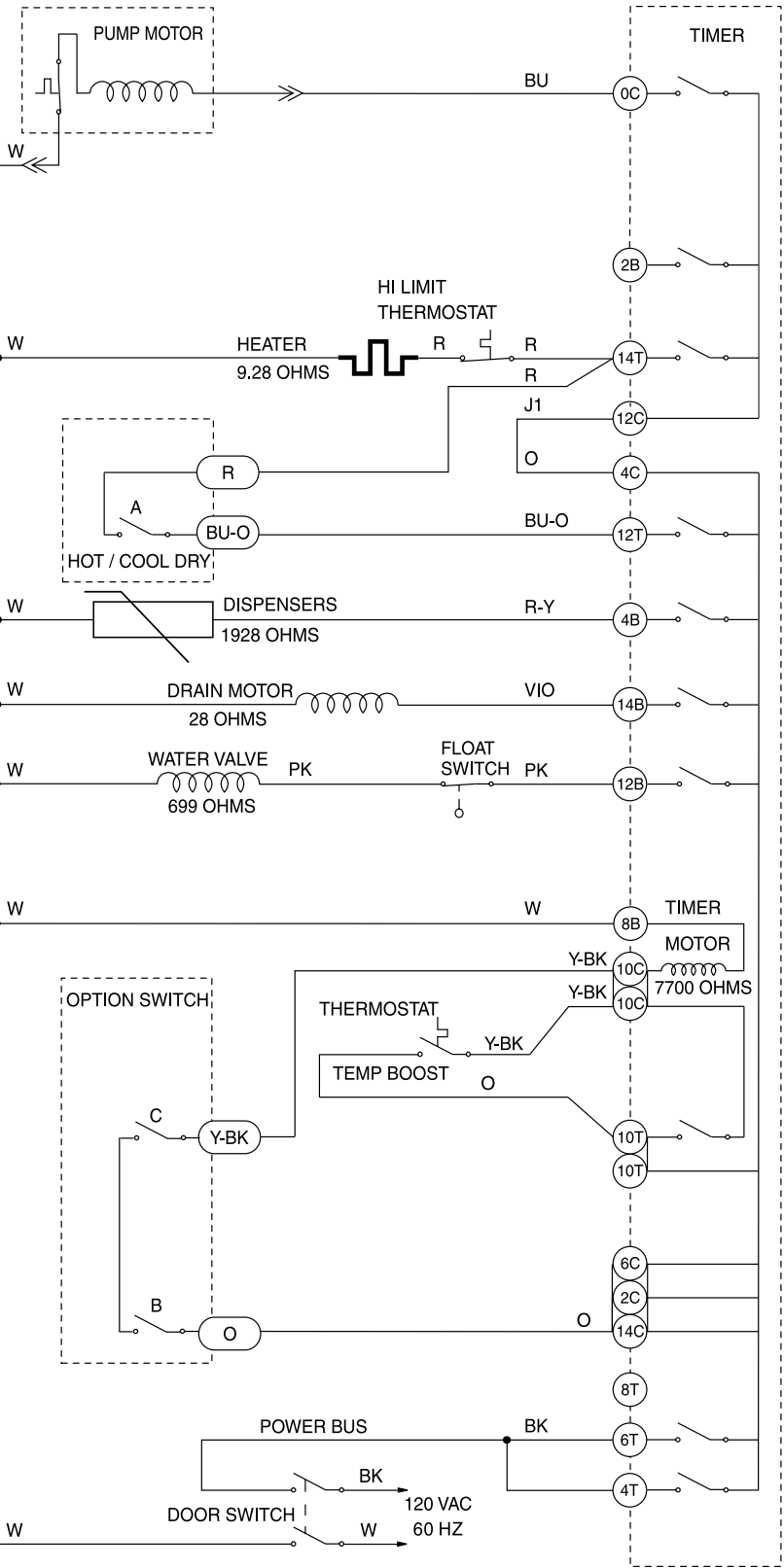
Timer Block



Cycle Chart



Wiring Diagram



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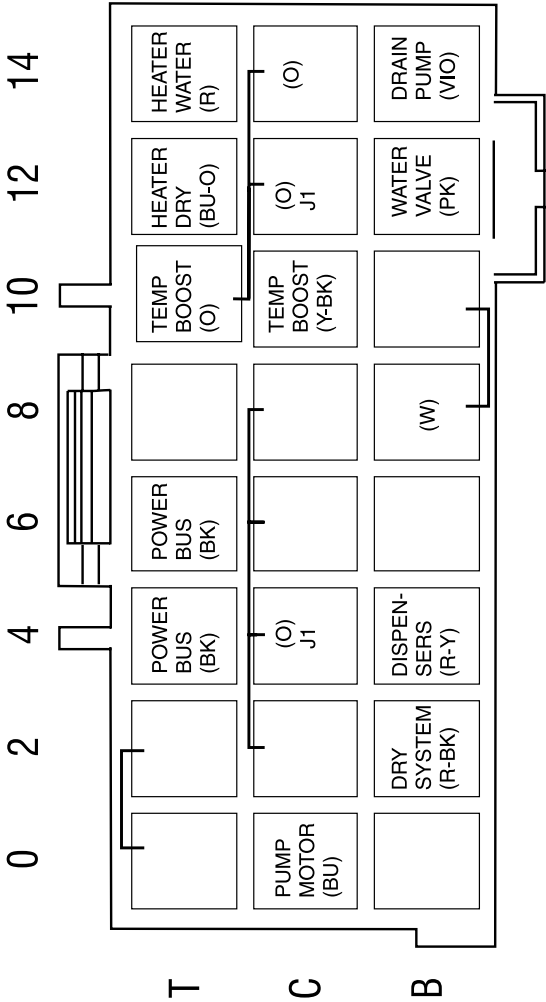
P/N: 154405901

010502

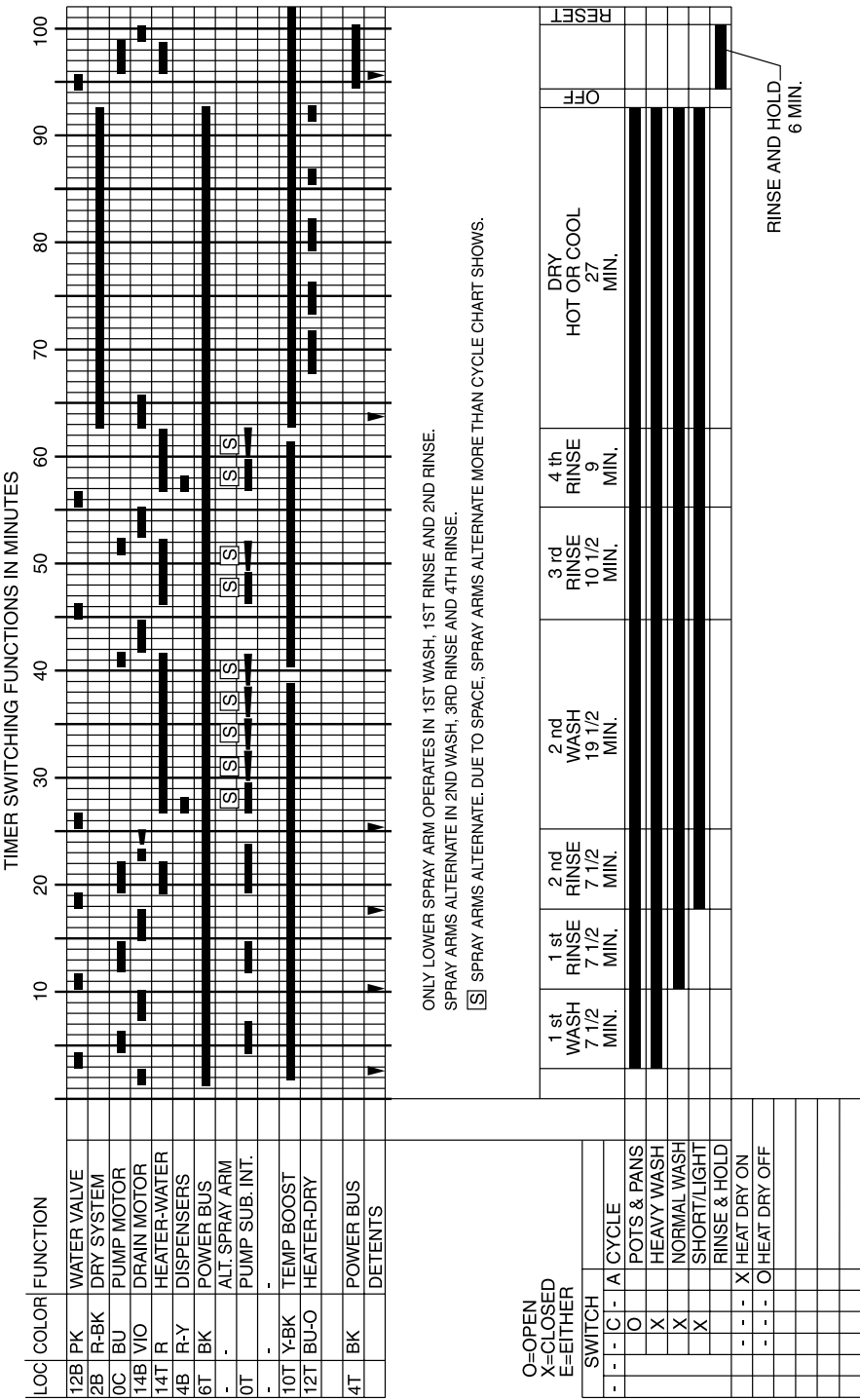
Color Code

BK..... Black PK.....Pink VIO.....Violet
BU.....Blue R.....Red W.....White
BU-O..... Blue/Orange R-BK.....Red/Black Y-BK.....Yellow/Black
O.....Orange R-Y.....Red/Yellow

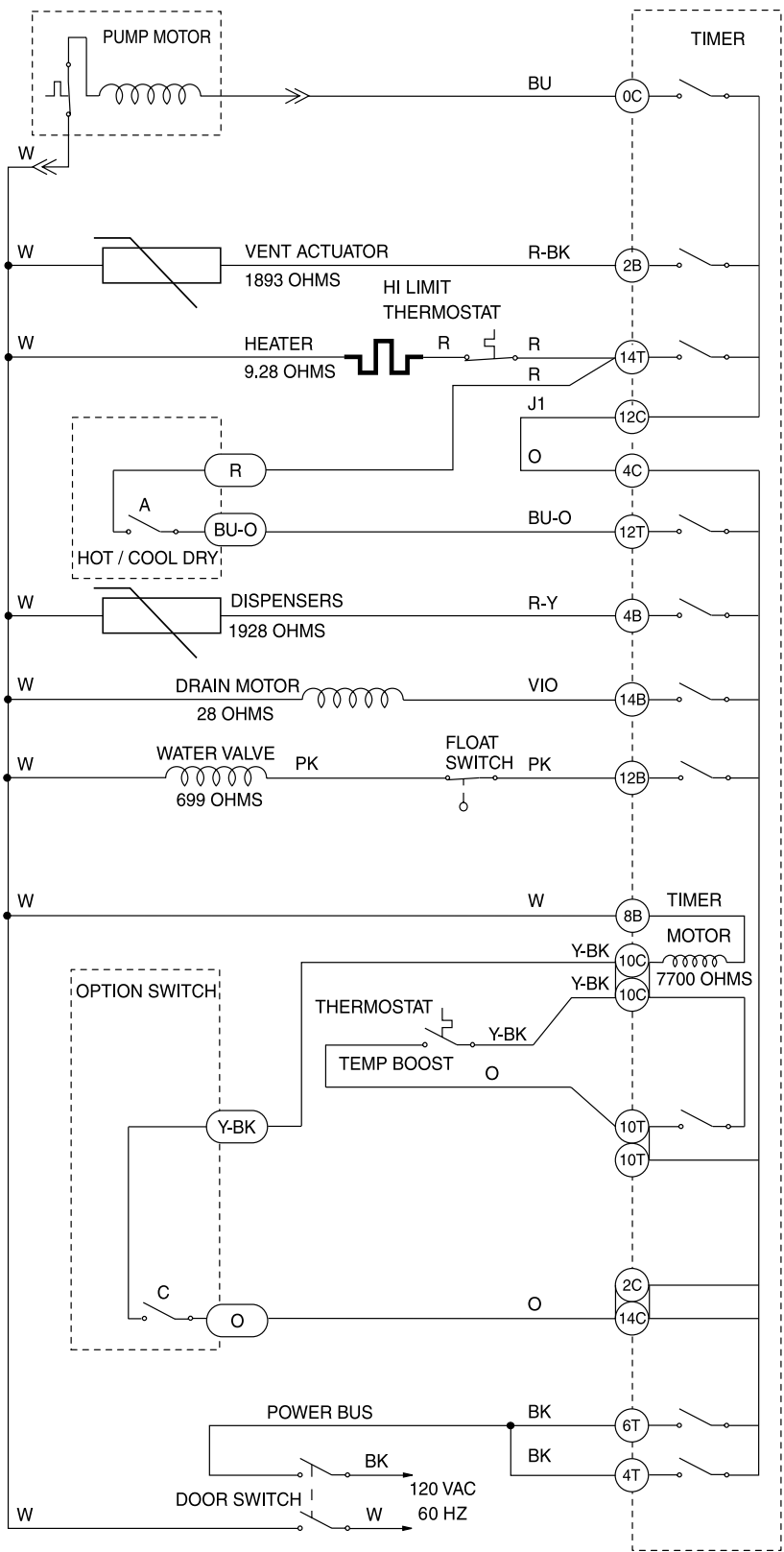
Timer Block



Cycle Chart



Wiring Diagram



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P/N: 154407901

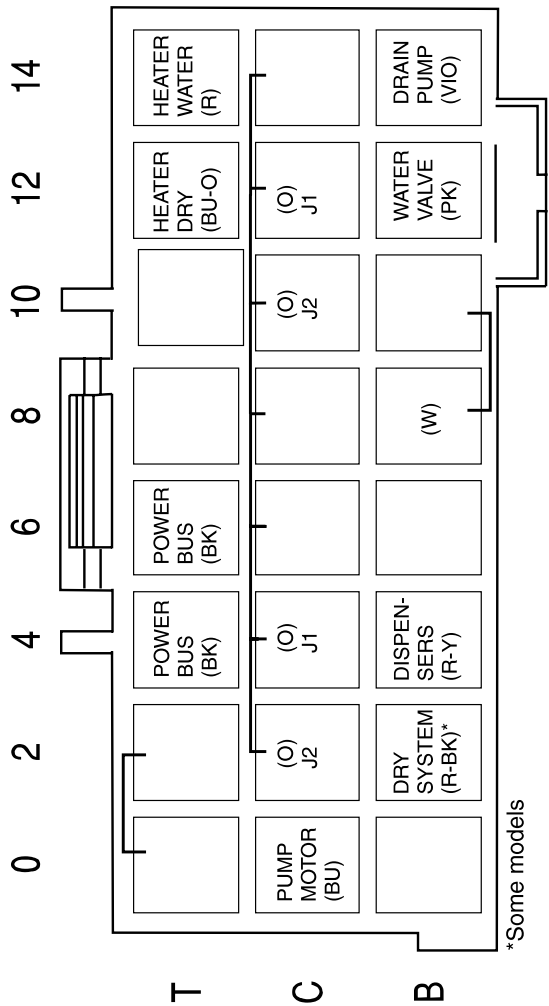
Models:
MDB122, MDB124

010522

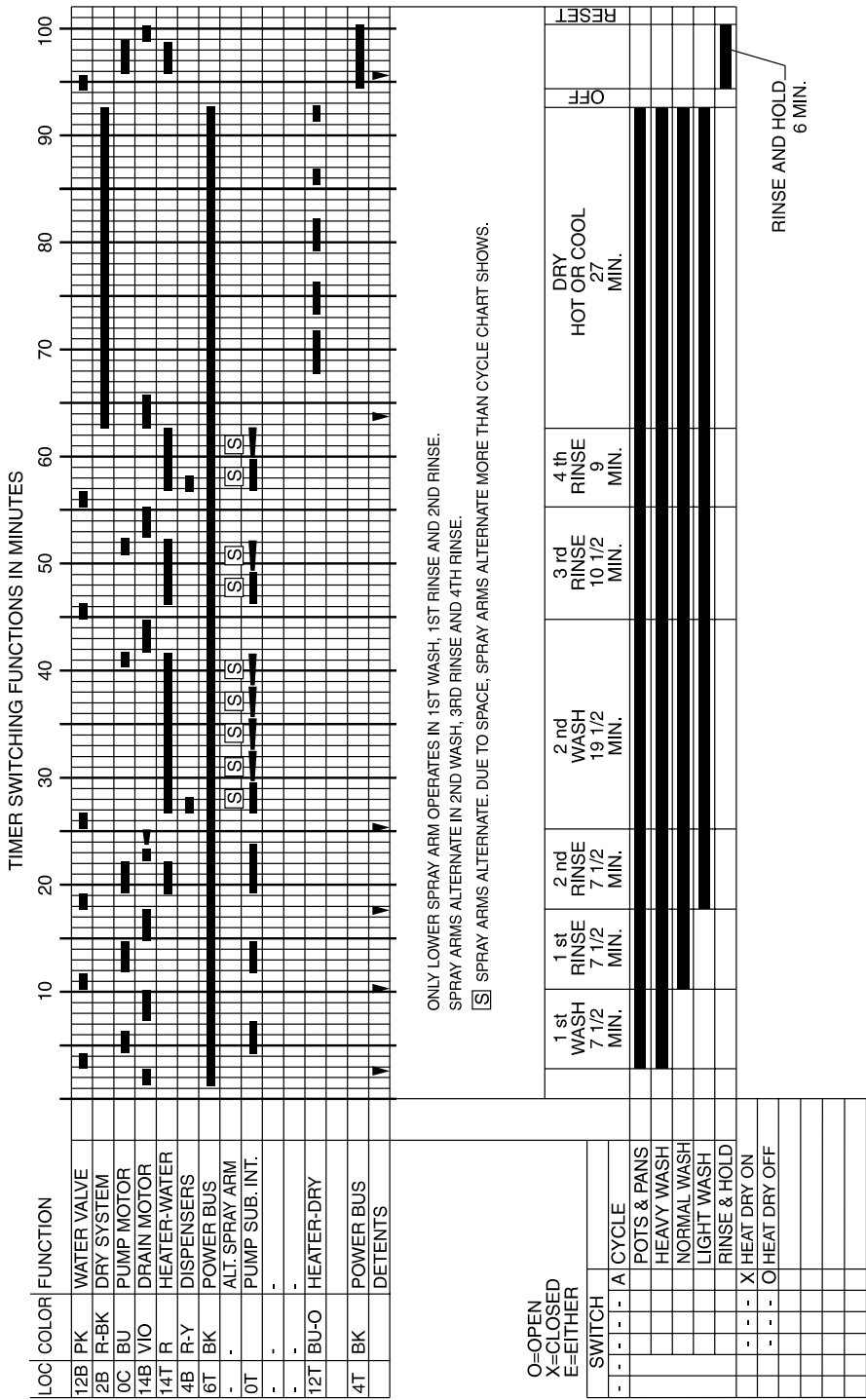
Color Code

BK.....Black PK.....Pink VIO.....Violet
BU.....Blue R.....Red W.....White
BU-O.....Blue/Orange R-BK.....Red/Black
O.....Orange R-Y.....Red/Yellow

Timer Block



Cycle Chart



Wiring Diagram

