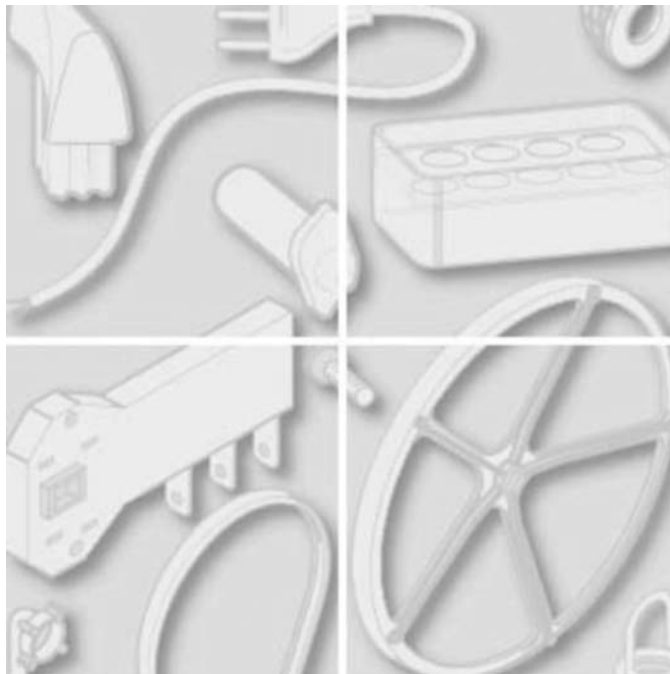




ARISTON

FAULT CODE MANUAL



FAULT CODE MANUAL

SAFE SERVICE PRACTICES

This Repair Manual is intended for persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the Appliance Service Industry. Ariston cannot be responsible, nor assumes any liability for injury or damages of any kind arising from the use or misuse of the information contained in this Repair Manual.

If you have any questions regarding the proper diagnosis, repair or operation of any Ariston Appliance, please contact the Ariston Customer Care Center or your Service Representative

SERVICING SAFEGUARDS:

To avoid personal injury and/or property damage, it is important that safe servicing practices be observed at all times. Examples of safe service practices are listed below but are not limited to the following:

- 1) Never attempt a product repair if you have any doubts as to your ability to complete the repair in a safe and satisfactory manner.
- 2) Before servicing or removing an appliance:
 - Disconnect power to the appliance.
 - Turn off the gas / LP supply.
 - Turn off the water supply.
- 3) Never interfere with the proper operation of any safety device.
- 4) Use only genuine factory replacement parts as substitutions may interfere with compliances to home safety codes or standards.
- 4) It is extremely important that all safety ground connections be reestablished prior to the completion of the service call. Failure to do so will result in a hazardous condition being created.
- 5) Prior to returning the appliance back into active service, ensure the following:
 - All electrical connections are correct and secure.
 - 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 metal parts or panels.
 - All safety grounds (both internal and external) are correctly and securely connected.
 - All access panels are properly and securely reassembled.

FAULT CODE MANUAL

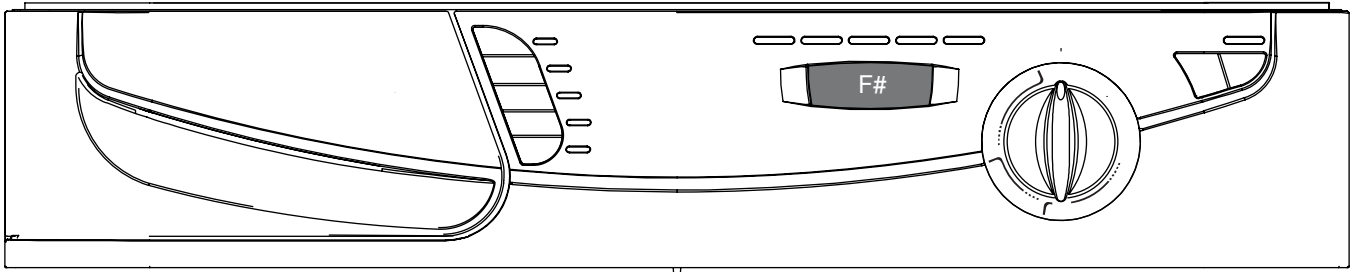
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DISHWASHERS

DISHWASHER MODEL					
L 63 LI 640	N/A	LL 64 LL 65	LI 670 LI 700		
NUMBER OF LED's					
4	5	6	7		
FLASHING LED FAULT CODE				FAULT	TROUBLESHOOTING
1 ■ □ □ □	2 □ ■ □ □ □	3 □ □ ■ □ □ □	4 □ □ □ ■ □ □ □	Float Switch	Water in Base Pan
1-2 ■ ■ □ □	2-3 □ ■ ■ □ □	3-4 □ □ ■ ■ □ □	4-5 □ □ □ ■ ■ □ □	No Drain	Drain Motor Disabled Filters Clogged Drain Hose Blocked
1-3 ■ □ ■ □	2-4 □ ■ □ ■ □	3-5 □ □ ■ □ ■ □	4-6 □ □ □ ■ □ ■ □	Main Motor Pressure Switch Blocked Filter	Main Motor Disabled Faulty Pressure Switch Filters Blocked
1-4 ■ □ □ ■	1-4 ■ □ □ ■ □	1-4 ■ □ □ ■ □ □	1-4 ■ □ □ ■ □ □ □	Control Board	Software of Control Board not Recognized. Run Test Program.
2 □ ■ □ □	3 □ □ ■ □ □	4 □ □ □ ■ □ □	5 □ □ □ □ ■ □ □	Water Valve	Water Valve Disabled
2-3 □ ■ ■ □	3-4 □ □ ■ ■ □	4-5 □ □ □ ■ ■ □	5-6 □ □ □ □ ■ ■ □	Fill Fault	Water Valve Disabled Turbine Disabled Control Board Faulty
2-4 □ ■ □ ■	3-5 □ □ ■ □ ■	4-6 □ □ □ ■ □ ■	5-7 □ □ □ □ ■ □ ■	Heating Element	Heating Element Disabled High Limit Open Control Board Faulty
3 □ □ ■ □	4 □ □ □ ■ □	5 □ □ □ □ ■ □	6 □ □ □ □ □ ■ □	NTC	NTC Defective or Not Positioned. Control Board Faulty.
4 □ □ □ ■	5 □ □ □ □ ■	6 □ □ □ □ □ ■	7 □ □ □ □ □ □ ■	NTC	NTC Defective or Not Positioned. Control Board Faulty.

ASL65VXS NA



F1. Motor Triac Short

Check Continuity of Motor.
 Check Motor / Control Board Wiring Connections.
 Replace Control Board and EEPROM.
 Or, Replace Motor.

F2. Main Motor

Check Motor Rotation.
 Check Continuity of Motor.
 Check Motor / Control Board Wiring Connections.
 Check Fan Blades for Blockage
 Replace Motor.
 Or, Replace Control Board and EEPROM.

F3. Front NTC Open / Short

Check Wiring Continuity to Control Board.
 Check NTC for 500K ohms, Replace NTC.
 Or, Replace Control Board and EEPROM.

F4. Not Used

F5. Not Used

F6. Not Used

F7. Not Used

F8. Heater Relay Shorted

Check Wiring Continuity at Control Board.
 Check Continuity of Heating Element – 48 ohms.

F9. EEPROM Error

Incorrect Version of EEPROM.
 Change EEPROM.

F10. Heating Element Open or High Limit Cut Out

Check Continuity of Heating Element – 48 ohms.
 Check Continuity of High Limit Cut Out.
 Check Wiring Continuity at Control Board.

F11. Not Used

F12. No Communication Between Display and Control Board

Check Wiring Continuity.
 Voltage Check from Control Board to Display.

F13. Rear NTC Open or Shorted

Check Wiring Continuity to Control Board.
 Check NTC for 500K ohms, Replace NTC.
 Or, Replace Control Board and EEPROM.

F14. Not Used

F15. Heater

Check Wiring Continuity at Control Board.
 Check Continuity of Heating Element – 48 ohms.

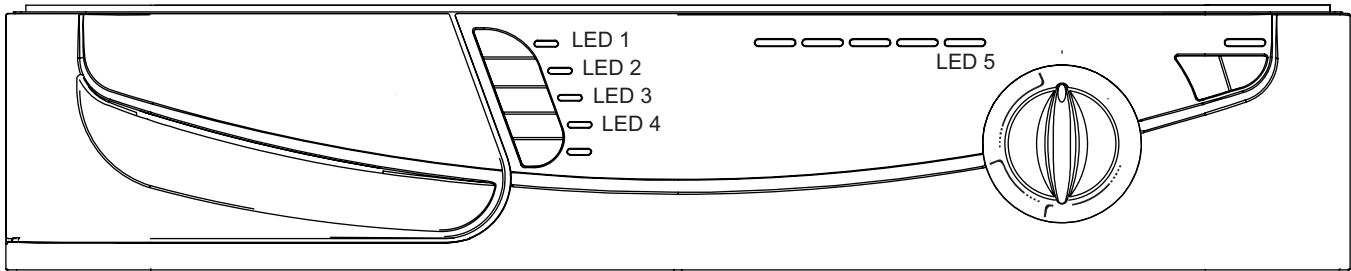
F16. Not Used

F17. Control Board Main Relay

Replace Control Board and EEPROM.

F18. Not Used

ASL75VXS NA



FAULT	LED 1	LED 2	LED 3	LED 4	LED 5	FAULT	LED 1	LED 2	LED 3	LED 4	LED 5
F 1	OFF	OFF	OFF	FLASH	OFF	F 10	FLASH	OFF	FLASH	OFF	OFF
F 2	OFF	OFF	FLASH	OFF	OFF	F 11	FLASH	OFF	FLASH	FLASH	OFF
F 3	OFF	OFF	FLASH	FLASH	OFF	F 12	FLASH	FLASH	OFF	OFF	OFF
F 4	OFF	FLASH	OFF	OFF	OFF	F 13	FLASH	FLASH	OFF	FLASH	OFF
F 5	OFF	FLASH	OFF	FLASH	OFF	F 14	FLASH	FLASH	FLASH	OFF	OFF
F 6	OFF	FLASH	FLASH	OFF	OFF	F 15	FLASH	FLASH	FLASH	FLASH	OFF
F 7	OFF	FLASH	FLASH	FLASH	OFF	F 16	OFF	OFF	OFF	OFF	FLASH
F 8	FLASH	OFF	OFF	OFF	OFF	F 17	OFF	OFF	OFF	FLASH	FLASH
F 9	FLASH	OFF	OFF	FLASH	OFF	F 18	OFF	OFF	FLASH	OFF	FLASH

F1. Motor Triac Short

Check Continuity of Motor.
 Check Motor / Control Board Wiring Connections.
 Replace Control Board and EEPROM.
 Or, Replace Motor.

F2. Main Motor

Check Motor Rotation.
 Check Continuity of Motor.
 Check Motor / Control Board Wiring Connections.
 Check Fan Blades for Blockage
 Replace Motor.
 Or, Replace Control Board and EEPROM.

F3. Front NTC Open / Short

Check Wiring Continuity to Control Board.
 Check NTC for 500K ohms, Replace NTC.
 Or, Replace Control Board and EEPROM.

F4. Condensation Pump

Check Condensation Pump for Blockage.
 Check Float.
 Check Wiring Continuity to Control Board.
 Check Voltage to Pump.
 Replace Pump.
 Or, Replace Control Board and EEPROM.

F5. Condensation Pump

Check Condensation Pump for Blockage.
 Check Float.
 Check Wiring Continuity to Control Board.
 Check Voltage to Pump.
 Replace Pump.
 Or, Replace Control Board and EEPROM.

F6. Not Used

F7. Not Used

F8. Heater Relay Shorted

Check Wiring Continuity at Control Board.
 Check Continuity of Heating Element – 48 ohms.

F9. EEPROM Error

Incorrect Version of EEPROM.
 Change EEPROM.

F10. Heating Element Open or High Limit Cut Out

Check Continuity of Heating Element – 48 ohms.
 Check Continuity of High Limit Cut Out.
 Check Wiring Continuity at Control Board.

F11. Condensation Pump

Check Condensation Pump for Blockage.
 Check Float.
 Check Wiring Continuity to Control Board.
 Check Voltage to Pump.
 Replace Pump.
 Or, Replace Control Board and EEPROM.

F12. No Communication Between Display and Control Board

Check Wiring Continuity.
 Voltage Check from Control Board to Display.

F13. Rear NTC Open or Shorted

Check Wiring Continuity to Control Board.
 Check NTC for 500K ohms, Replace NTC.
 Or, Replace Control Board and EEPROM.

F14. Not Used

F15. Heater

Check Wiring Continuity at Control Board.
 Check Continuity of Heating Element – 48 ohms.

F16. Not Used

F17. Control Board Main Relay

Replace Control Board and EEPROM.

F18. Not Used

AW 120 NA / AW 122 NA**FAULT CODES**

A repair fault is signaled by the continuous rotating of the Program Knob and the flashing of the Door Locked LED. The Fault Code is determined by counting the sequence of individual flashes of the LED (2 flashes = F2). The LED will flash the Fault Code sequence and then delay for approximately eight (8) seconds, repeating the Fault Code sequence and eight second delay continually.

TECH NOTE: The unit can be turned off without harm and the Fault Code sequence will repeat when power is reapplied.

F1. Triac Short

Replace Control Board.

F2. Main Motor

Check Main Motor connections.
Replace Main Motor.
Or, replace Control Board.

F3. NTC (Water Temp) Open / Short

Check wiring continuity to Control Board.
Replace NTC.
Or, replace Control Board.

F4. Pressure Switch

Check wiring continuity to Control Board.
Replace Pressure Switch.
Or, replace Control Board.

F5. Blocked Drain Motor or Pressure Switch shorted in Empty position

Check Drain Hose.
Check Drain Motor clean out for obstruction.
Check voltage at Drain Motor.
Check Pressure Switch wiring continuity.
Replace Drain Motor / Pressure Switch.
Or, replace Control Board.

F6. Program Selector

Check wiring continuity to Control Board.
Replace Program Selector.
Or, replace Control Board.

F7. Not Used**F8. Pressure Switch Shorted in Full Position**

Check Pressure Switch wiring continuity.
Or, replace Pressure Switch.
Or, replace Control Board.

F9. Control Board Error

Incorrect version of Control Board or EEPROM.
Change Control Board and EEPROM.

F10. Pressure Switch Shorted

Check wiring continuity to Control Board.
Replace Pressure Switch.
Or, replace Control Board.

F11. Drain Motor

Check wiring continuity to Control Board.
Check Drain Motor clean out for obstruction.
Voltage check at Drain Motor.
Check Pressure Switch.
Replace Drain Motor.
Or, replace Control Board.

F12. Not Used**F13 - F16 Applies Only to Combo Models****F13. NTC (Dryer Temp) Open / Short**

Check wiring continuity to Control Board.
Replace NTC.
Or, replace Control Board.

F14. Dryer Heating Element is Open

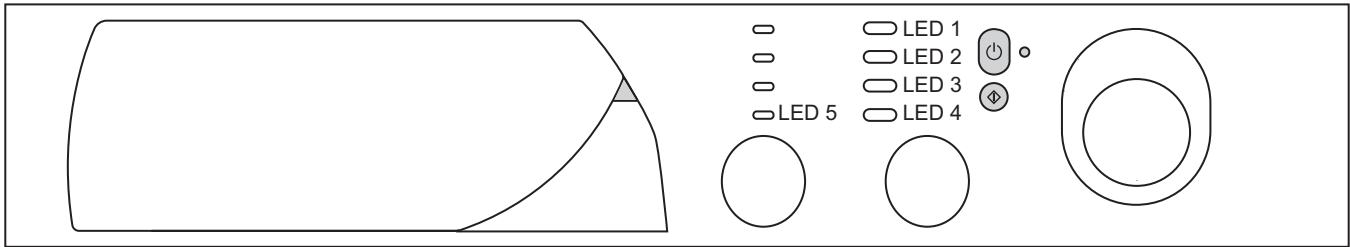
Check Dryer Heating Element continuity.
Check wiring from Element to Control Board.
Replace Heating Element.
Or, replace Control Board

F15. Dryer Heating Element Relay Shorted

Check Dryer Heating Element continuity.
Check wiring from Element to Control Board.
Replace Control Unit.

F16. Not Used

AW 125 NA



FAULT	LED 1	LED 2	LED 3	LED 4	LED 5	FAULT	LED 1	LED 2	LED 3	LED 4	LED 5
F 1	OFF	OFF	OFF	FLASH	OFF	F 10	FLASH	OFF	FLASH	OFF	OFF
F 2	OFF	OFF	FLASH	OFF	OFF	F 11	FLASH	OFF	FLASH	FLASH	OFF
F 3	OFF	OFF	FLASH	FLASH	OFF	F 12	FLASH	FLASH	OFF	OFF	OFF
F 4	OFF	FLASH	OFF	OFF	OFF	F 13	FLASH	FLASH	OFF	FLASH	OFF
F 5	OFF	FLASH	OFF	FLASH	OFF	F 14	FLASH	FLASH	FLASH	OFF	OFF
F 6	OFF	FLASH	FLASH	OFF	OFF	F 15	FLASH	FLASH	FLASH	FLASH	OFF
F 7	OFF	FLASH	FLASH	FLASH	OFF	F 16	OFF	OFF	OFF	OFF	FLASH
F 8	FLASH	OFF	OFF	OFF	OFF	F 17	OFF	OFF	OFF	FLASH	FLASH
F 9	FLASH	OFF	OFF	FLASH	OFF	F 18	OFF	OFF	FLASH	OFF	FLASH

F1. Motor Triac Short

Check Continuity of Motor.
Check Motor / Control Board Wiring Connections.
Replace Control Board and EEPROM.
Or, Replace Motor.

F2. Main Motor

Check Motor Rotation.
Check Continuity of Motor.
Check Motor / Control Board Wiring Connections.
Check Tach Continuity 177 ohms.
Replace Motor.
Or, Replace Control Board and EEPROM.

F3. NTC (Water Temp) Open / Short

Check Wiring Continuity to Control Board.
Check NTC for 20K ohms, Replace NTC.
Or, Replace Control Board and EEPROM.

F4. Pressure Switch

Check Wiring Continuity to Control Board.
Inspect Pressure Switch Hose for Damage or Holes.
Replace Pressure Switch.
Or, Replace Control Board and EEPROM.

F5. Blocked Drain Motor or Pressure Switch shorted in Empty position

Check Drain Hose.
Check Drain Motor Clean Out for Obstruction.
Check voltage at Drain Motor.
Inspect Pressure Switch Hose for Damage or Holes.
Check Pressure Switch Wiring Continuity.
Replace Drain Motor / Pressure Switch.
Or, Replace Control Board and EEPROM.

F6. Not Used

F7. Heater Relay Stuck or Heater Element Open

This Fault Signaled when Pressure Switch in Empty Position.
Check Wiring Continuity to Control Board.
Check Continuity of Heating Element – 31 ohms.
Inspect Pressure Switch Hose for Damage or Holes.
Check Pressure Switch Wiring Continuity.

F8. Heater Relay Shorted or Pressure Switch Shorted in Full Position

Check Wiring Continuity to Control Board.
Check Continuity of Heating Element – 31 ohms.
Inspect Pressure Switch Hose for Damage or Holes.
Check Pressure Switch Wiring Continuity.

F9. EEPROM Error

Incorrect Version of EEPROM.
Change EEPROM.

F10. Pressure Switch Shorted

Inspect Pressure Switch Hose for Damage or Holes.
Check Pressure Switch Wiring Continuity.
Replace Pressure Switch.

F11. Drain Motor

Check Wiring Continuity to Control Board.
Check Drain Motor Clean Out for Obstruction.
Voltage Check at Drain Motor.
Check Drain Motor Continuity 165 ohms.
Check Pressure Switch.

F12. No Communication Between Display and Control Board

Check Wiring Continuity.
Voltage Check from Control Board to Display.

F13. Not Used

F14. Not Used

F15. Not Used

F16. Not Used

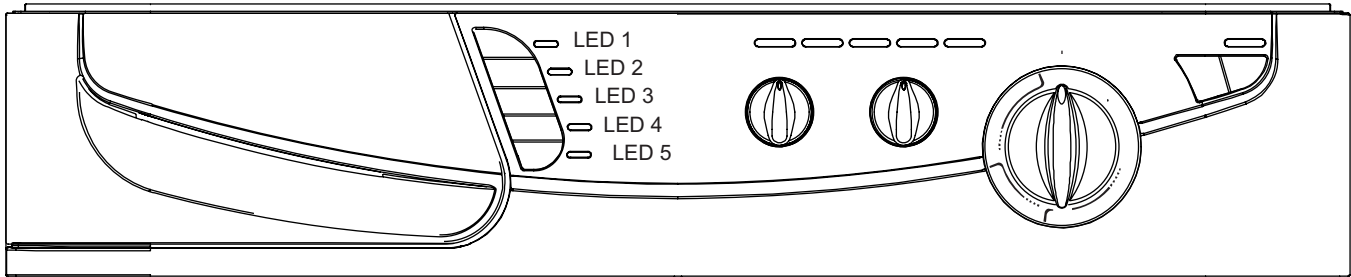
F17. Door Open, or Door Lock Faulty

Check if Door is Closed.
Check Door Lock Wiring Connector.
Check Voltage to Door Lock.

F18. 3 Phase Motor Control Faulty

Check Control Board.
Change Control Board and EEPROM.

AW 129 NA



FAULT	LED 1	LED 2	LED 3	LED 4	LED 5	FAULT	LED 1	LED 2	LED 3	LED 4	LED 5
F 1	OFF	OFF	OFF	FLASH	OFF	F 10	FLASH	OFF	FLASH	OFF	OFF
F 2	OFF	OFF	FLASH	OFF	OFF	F 11	FLASH	OFF	FLASH	FLASH	OFF
F 3	OFF	OFF	FLASH	FLASH	OFF	F 12	FLASH	FLASH	OFF	OFF	OFF
F 4	OFF	FLASH	OFF	OFF	OFF	F 13	FLASH	FLASH	OFF	FLASH	OFF
F 5	OFF	FLASH	OFF	FLASH	OFF	F 14	FLASH	FLASH	FLASH	OFF	OFF
F 6	OFF	FLASH	FLASH	OFF	OFF	F 15	FLASH	FLASH	FLASH	FLASH	OFF
F 7	OFF	FLASH	FLASH	FLASH	OFF	F 16	OFF	OFF	OFF	OFF	FLASH
F 8	FLASH	OFF	OFF	OFF	OFF	F 17	OFF	OFF	OFF	FLASH	FLASH
F 9	FLASH	OFF	OFF	FLASH	OFF	F 18	OFF	OFF	FLASH	OFF	FLASH

F1. Motor Triac Short

Check Continuity of Motor.
Check Motor / Control Board Wiring Connections.
Replace Control Board and EEPROM.
Or, Replace Motor.

F2. Main Motor

Check Motor Rotation.
Check Continuity of Motor.
Check Motor / Control Board Wiring Connections.
Check Tach Continuity 177 ohms.
Replace Motor.
Or, Replace Control Board and EEPROM.

F3. NTC (Water Temp) Open / Short

Check Wiring Continuity to Control Board.
Check NTC for 20K ohms, Replace NTC.
Or, Replace Control Board and EEPROM.

F4. Pressure Switch

Check Wiring Continuity to Control Board.
Inspect Pressure Switch Hose for Damage or Holes.
Replace Pressure Switch.
Or, Replace Control Board and EEPROM.

F5. Blocked Drain Motor or Pressure Switch shorted in Empty position

Check Drain Hose.
Check Drain Motor Clean Out for Obstruction.
Check voltage at Drain Motor.
Inspect Pressure Switch Hose for Damage or Holes.
Check Pressure Switch Wiring Continuity.
Replace Drain Motor / Pressure Switch.
Or, Replace Control Board and EEPROM.

F6. Not Used

F7. Heater Relay Stuck or Heater Element Open

This Fault Signaled when Pressure Switch in Empty Position.
Check Wiring Continuity to Control Board.
Check Continuity of Heating Element – 31 ohms.
Inspect Pressure Switch Hose for Damage or Holes.
Check Pressure Switch Wiring Continuity.

F8. Heater Relay Shorted or Pressure Switch Shorted in Full Position

Check Wiring Continuity to Control Board.
Check Continuity of Heating Element – 31 ohms.
Inspect Pressure Switch Hose for Damage or Holes.
Check Pressure Switch Wiring Continuity.

F9. EEPROM Error

Incorrect Version of EEPROM.
Change EEPROM.

F10. Pressure Switch Shorted

Inspect Pressure Switch Hose for Damage or Holes.
Check Pressure Switch Wiring Continuity.
Replace Pressure Switch.

F11. Drain Motor

Check Wiring Continuity to Control Board.
Check Drain Motor Clean Out for Obstruction.
Voltage Check at Drain Motor.
Check Drain Motor Continuity 165 ohms.
Check Pressure Switch.

F12. No Communication Between Display and Control Board

Check Wiring Continuity.
Voltage Check from Control Board to Display.

F13. Not Used

F14. Not Used

F15. Not Used

F16. Not Used

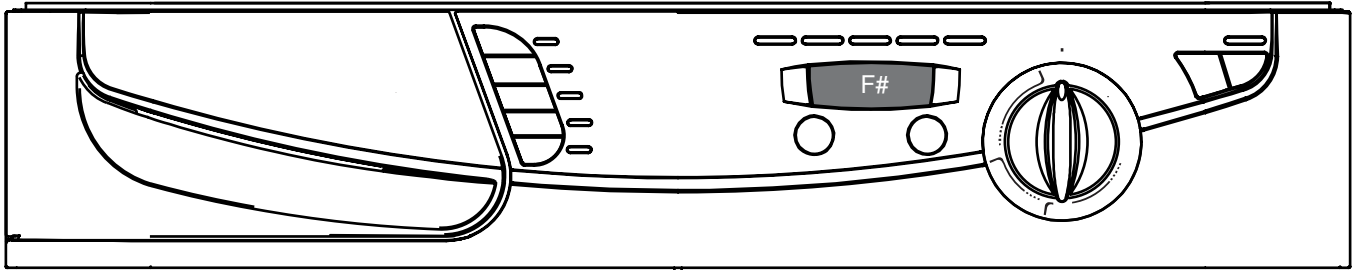
F17. Door Open, or Door Lock Faulty

Check if Door is Closed.
Check Door Lock Wiring Connector.
Check Voltage to Door Lock.

F18. 3 Phase Motor Control Faulty

Check Control Board.
Change Control Board and EEPROM.

AW 149 NA



F1. Motor Triac Short

Check Continuity of Motor.
 Check Motor / Control Board Wiring Connections.
 Replace Control Board and EEPROM.
 Or, Replace Motor.

F2. Main Motor

Check Motor Rotation.
 Check Continuity of Motor.
 Check Motor / Control Board Wiring Connections.
 Check Tach Continuity 177 ohms.
 Replace Motor.
 Or, Replace Control Board and EEPROM.

F3. NTC (Water Temp) Open / Short

Check Wiring Continuity to Control Board.
 Check NTC for 20K ohms, Replace NTC.
 Or, Replace Control Board and EEPROM.

F4. Pressure Switch

Check Wiring Continuity to Control Board.
 Inspect Pressure Switch Hose for Damage or Holes.
 Replace Pressure Switch.
 Or, Replace Control Board and EEPROM.

F5. Blocked Drain Motor or Pressure Switch shorted in Empty position

Check Drain Hose.
 Check Drain Motor Clean Out for Obstruction.
 Check voltage at Drain Motor.
 Inspect Pressure Switch Hose for Damage or Holes.
 Check Pressure Switch Wiring Continuity.
 Replace Drain Motor / Pressure Switch.
 Or, Replace Control Board and EEPROM.

F6. Not Used

F7. Heater Relay Stuck or Heater Element Open

This Fault Signaled when Pressure Switch in Empty Position.
 Check Wiring Continuity to Control Board.
 Check Continuity of Heating Element – 31 ohms.
 Inspect Pressure Switch Hose for Damage or Holes.
 Check Pressure Switch Wiring Continuity.

F8. Heater Relay Shorted or Pressure Switch Shorted in Full Position

Check Wiring Continuity to Control Board.
 Check Continuity of Heating Element – 31 ohms.
 Inspect Pressure Switch Hose for Damage or Holes.
 Check Pressure Switch Wiring Continuity.

F9. EEPROM Error

Incorrect Version of EEPROM.
 Change EEPROM.

F10. Pressure Switch Shorted

Inspect Pressure Switch Hose for Damage or Holes.
 Check Pressure Switch Wiring Continuity.
 Replace Pressure Switch.

F11. Drain Motor

Check Wiring Continuity to Control Board.
 Check Drain Motor Clean Out for Obstruction.
 Voltage Check at Drain Motor.
 Check Drain Motor Continuity 165 ohms.
 Check Pressure Switch.

F12. No Communication Between Display and Control Board

Check Wiring Continuity.
 Voltage Check from Control Board to Display.

F13. Not Used

F14. Not Used

F15. Not Used

F16. Not Used

F17. Door Open, or Door Lock Faulty

Check if Door is Closed.
 Check Door Lock Wiring Connector.
 Check Voltage to Door Lock.

F18. 3 Phase Motor Control Faulty

Check Control Board.
 Change Control Board and EEPROM.

AWD 120 NA / AWD121 NA / AWD129 NA

FAULT CODES

A repair fault is signaled by the continuous rotating of the Program Knob and the flashing of the Door Locked LED. The Fault Code is determined by counting the sequence of individual flashes of the LED (2 flashes = F2). The LED will flash the Fault Code sequence and then delay for approximately eight (8) seconds, repeating the Fault Code sequence and eight second delay continually.

TECH NOTE: The unit can be turned off without harm and the Fault Code sequence will repeat when power is reapplied.

F1. Triac Short

Replace Control Board.

F2. Main Motor

Check Main Motor connections.
Replace Main Motor.
Or, replace Control Board.

F3. NTC (Water Temp) Open / Short

Check wiring continuity to Control Board.
Replace NTC.
Or, replace Control Board.

F4. Pressure Switch

Check wiring continuity to Control Board.
Replace Pressure Switch.
Or, replace Control Board.

F5. Blocked Drain Motor or Pressure Switch shorted in Empty position

Check Drain Hose.
Check Drain Motor clean out for obstruction.
Check voltage at Drain Motor.
Check Pressure Switch wiring continuity.
Replace Drain Motor / Pressure Switch.
Or, replace Control Board.

F6. Program Selector

Check wiring continuity to Control Board.
Replace Program Selector.
Or, replace Control Board.

F7. Not Used

F8. Pressure Switch Shorted in Full Position

Check Pressure Switch wiring continuity.
Or, replace Pressure Switch.
Or, replace Control Board.

F9. Control Board Error

Incorrect version of Control Board or EEPROM.
Change Control Board and EEPROM.

F10. Pressure Switch Shorted

Check wiring continuity to Control Board.
Replace Pressure Switch.
Or, replace Control Board.

F11. Drain Motor

Check wiring continuity to Control Board.
Check Drain Motor clean out for obstruction.
Voltage check at Drain Motor.
Check Pressure Switch.
Replace Drain Motor.
Or, replace Control Board.

F12. Not Used

F13. NTC (Dryer Temp) Open / Short

Check wiring continuity to Control Board.
Replace NTC.
Or, replace Control Board.

F14. Dryer Heating Element is Open

Check Dryer Heating Element continuity.
Check wiring from Element to Control Board.
Replace Heating Element.
Or, replace Control Board

F15. Dryer Heating Element Relay Shorted

Check Dryer Heating Element continuity.
Check wiring from Element to Control Board.
Replace Control Unit.

F16. Not Used