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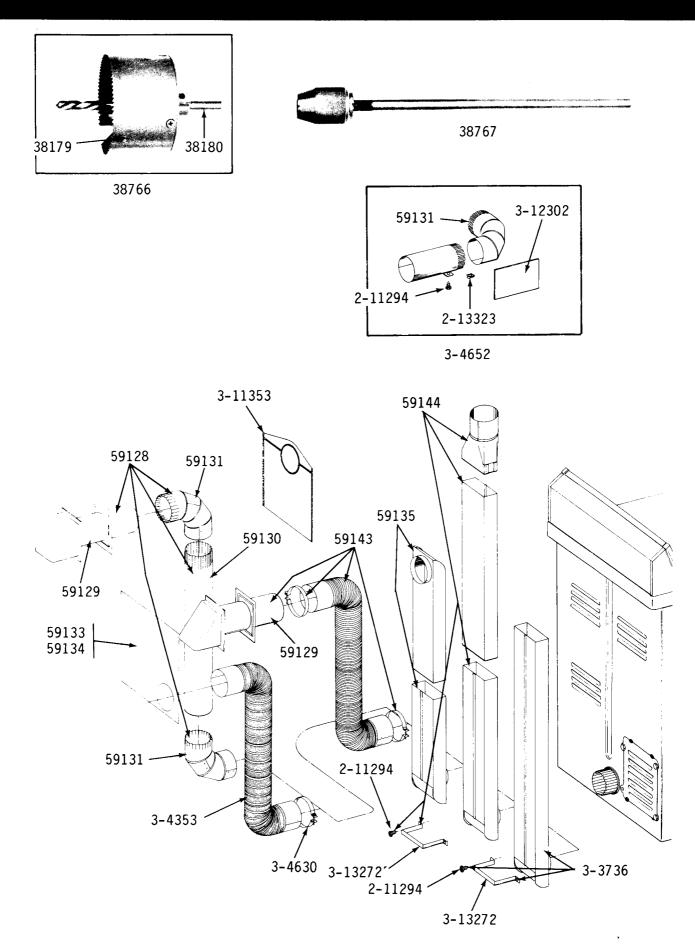
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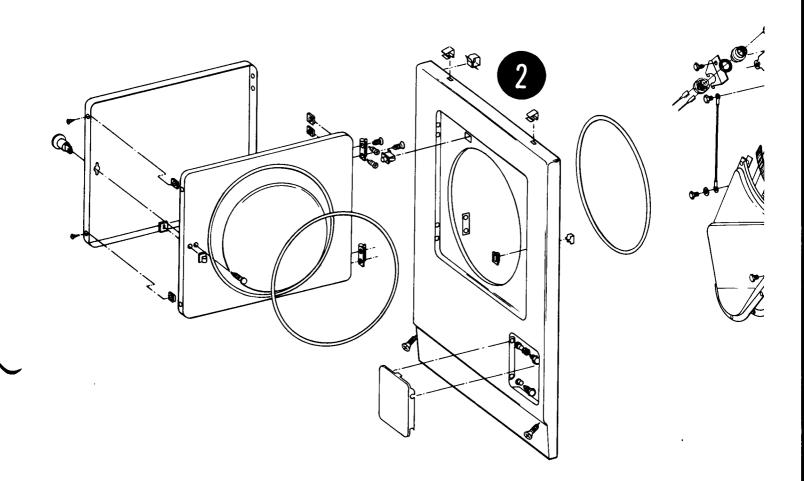


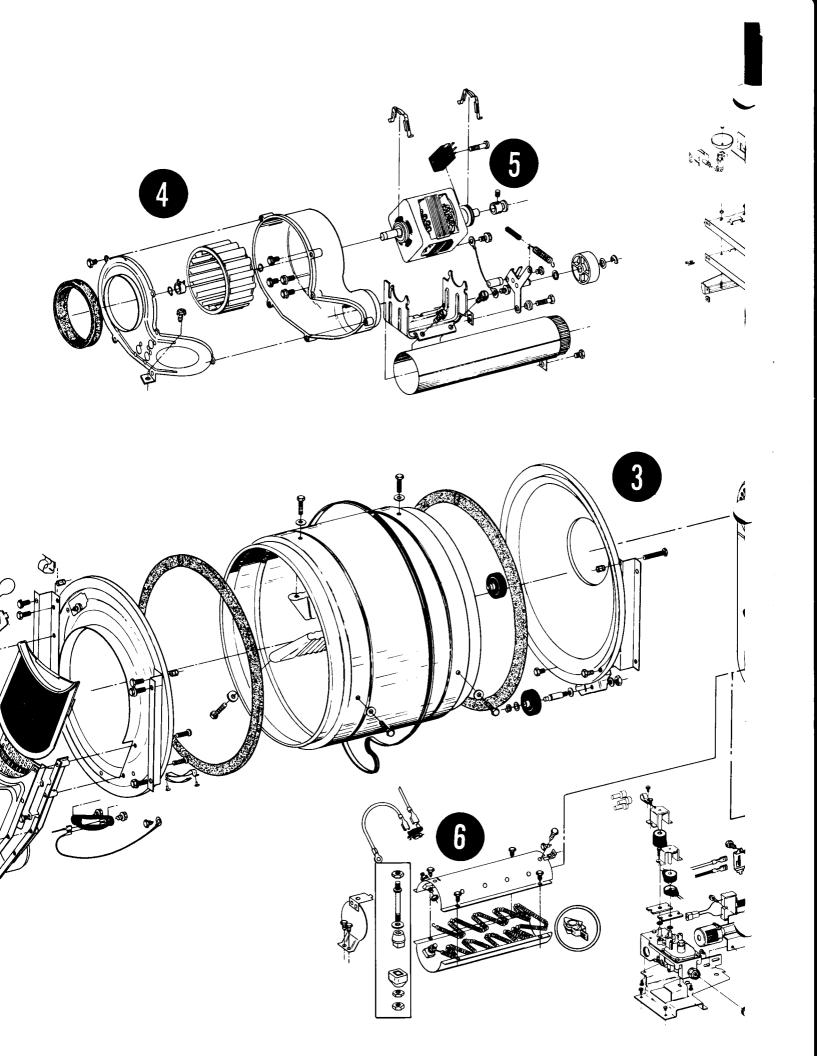
38179 38180 38766	Blade for saw Replacement drill Hole saw with drill
38767 59128	Extension for saw Vent kit - standard 4" (10.16cm) kit contains three $59130 4" \times 24"$ (10.16cm x 60.96cm) aluminum pipes, two $59131 4"$ (10.16cm) aluminum elbows and one $59129 4"$ (10.16cm) vent hood
59129	Vent hood - 4" (10.16cm) wide-mouth
59130	Aluminum pipe - 4" x 24" (10.16cm x 60.96cm)
59131 59133	Aluminum elbow - 4" (10.16cm) Aluminum window plate - 12" x 18" (30.48cm x 45.72cm)
59134	Aluminum window plate = 12 × 10 (30.10cm × 50.80cm)
59135	Vent duct assembly - 18" (45.72cm) to 30" (76.20cm) long
59143	Flexible aluminum vent kit - includes one 4" (10.16cm) vent hood, two 4" (10.16cm) clamps and one 4" (10.16cm) dia. x 8' (2.44m) flexible vent duct
59144	Rectangular vent kit with round adapter
2-11294	Screw - for exhaust duct kit - for exhaust deflector kit
2-13323	Fastener for exhaust duct kit
3-3736	Exhaust deflector kit for nonvented dryer
3-4353	Flexible aluminum vent duct - $4" \times 32"$ (10.16cm x 81.28cm) length stretches to $8'$ (2.44m)
3-4630	Clamp for flexible duct
3-4652	Exhaust duct kit for side and bottom venting
3-11353	Dacron lint bag Insulation for exhaust duct kit
3-12302 3-13272	Bracket for exhaust deflector
J-13272	D. 20101 . 0. 271.220. 201104.01

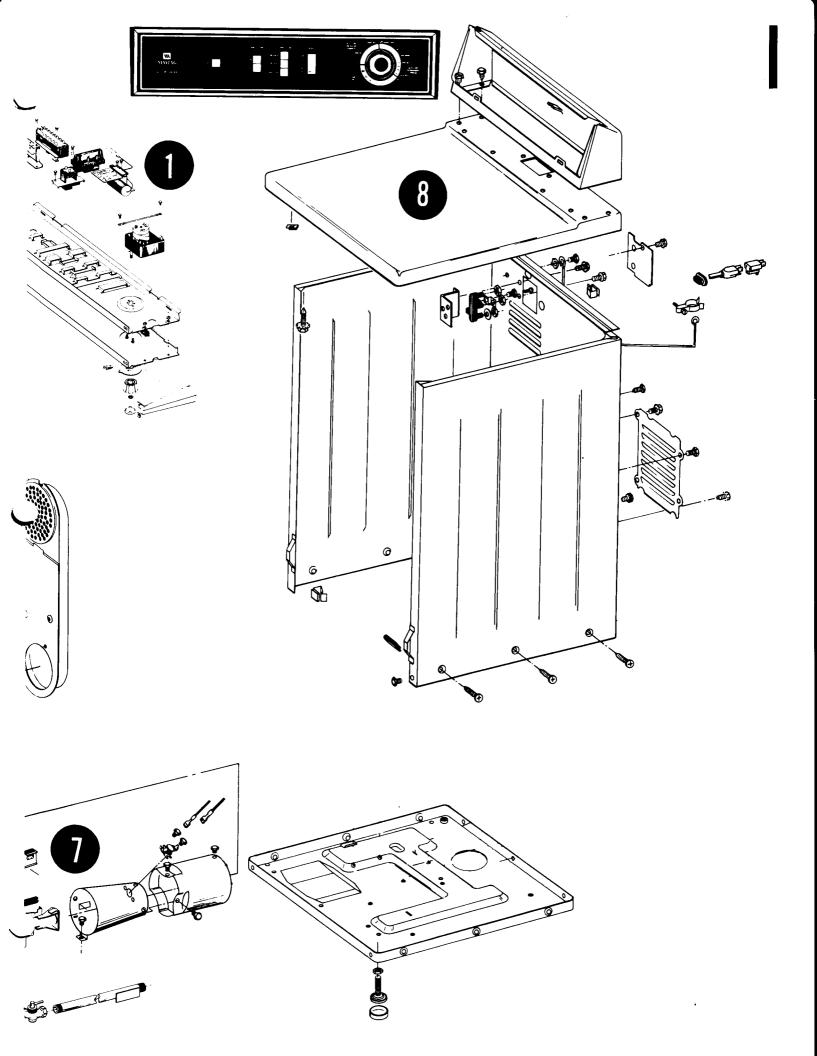


- 1 Control Panel Assembly Components
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 3 Tumbler and Related Components
 4 Blower, Regulating and Cool Down Thermostats
 5 Drive Motor and Idler
 6 Heating Element
 7 Gas Valve

- 8 Cabinet and Top Cover









Section 1 Electrical Test Equipment

(38559) MAYTAG APPLIANCE TEST METER



The Maytag appliance test meter is most effective when used to detect open or closed circuits in an electrical component. This method of testing is often referred to as "continuity testing" and is the easiest means of checking a part.

A continuity check can be safely made only after the unit being checked has been disconnected from its electrical supply and after you have removed wires from the terminals of the part being tested. Following manual activation of the part (if required) and after the meter has been set on an ohms scale, the probes of the test meter are placed on the respective terminals. Needle movement to the "O" end of the scale would indicate continuity through the part. No needle movement would indicate no continuity and a probable inoperative part.

In general, when checking for continuity, needle deflection indicates a closed circuit and no needle deflection would indicate an open circuit.

OHMS (RESISTANCE MEASUREMENTS)

When checking resistance be certain the unit is disconnected from its power supply. Failure to do so will result in meter damage when performing checks. For accurate readings, wires should be disconnected from both sides of the component.

SET METER FOR USE AS FOLLOWS:

- Calibrate meter by touching test probes together and turning adjusting dial until meter reads "0" on green scale. Recheck calibaration whenever scale is changed. (Replace battery if dial will not bring meter reading to "0".)
- 2. Select the scale most easily read and place test probes on respective terminals. When checking a switch the reading would normally be either open or closed. A reading of 70 on the R \times 10 scale would for example be 700 ohms resistance.

The following chart shows typical resistance values for some of the components found on Maytag dryers.

Heating Element

10.23 ohms

Gas Valve

Disconnect radiant sensor and igniter wires. Measure across igniter wires or igniter plug from valve to get a resistance value of 425-450 ohms.

Measure across sensor wires to get a resistance of 450-475 ohms.

Drive Motor

Red terminal to Gray terminal

1.5 ohms

In order to measure the individual windings the red and gray wires will have to be pulled off of the start switch.

Run winding only 2.25 ohms Start winding only 3 ohms

Glow Bar Igniter

Because of the make-up of the igniter, the resistance will vary over a rather wide range. Values from 180 ohms to 400 ohms would be typical with an igniter at room temperature.

Shut-Off Solenoid — Electronic Control Models

50 ohms — 55 ohms

These resistances are not meant to be used as the exact values to determine whether a component is good or bad. They are provided so that you may have an idea of the resistance that you can see in testing components on Maytag dryers.

VOLTAGE CHECKS

For the most part these checks will consist of taking readings at the wall receptacle in order to determine the availability of voltage to the product. Voltage checks on individual components of a product are not recommended due to the possibility of electrical shock. Component part testing is best accomplished through continuity checks with a 38559 Maytag appliance test meter.

NOTE: Use of the meter on voltage higher than indicated range may cause permanent damage to the meter. To prevent damage first select highest range and then lower for readings which fall within the lower scale.

SET UP METER FOR USE AS FOLLOWS:

- 1. Turn selector knob to desired meter function and appropriate range.
- 2. Plug black lead into socket marked (black).
- 3. Plug red lead into socket marked + (red).
- 4. Place test leads into receptacle in order to determine voltage available.

TEMPERATURE READINGS RANGE (50°F. TO 300°F.)

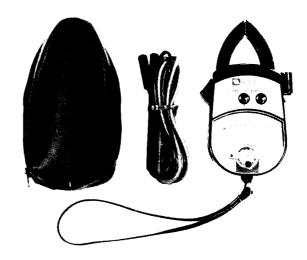
Dryer — Air temperature readings can be taken at the lint filter by removing the filter and placing the

accessory temperature probe (Part No. 38562) directly in the lint filter opening. Cycling of the thermostats can actually be observed as can the temperature of the exhausted air.

SET UP METER FOR USE AS FOLLOWS:

- 1. Turn selector knob to TEMP.
- 2. Insert black negative lead of temperature probe into socket marked (black).
- 3. Insert red positive lead of temperature probe into socket marked + (red).
- 4. To calibrate meter, touch black plug from red positive lead to black negative lead and turn calibration dial until needle aligns with CAL.
- 5. Probe is ready to use read blue scale on meter face marked TEMP.

(38186) Clamp-On-Ammeter



Each circuit in an appliance has a "normal" current draw which is an indication of the performance of that circuit. Current draw levels less than or more than normal give clues to malfunctions. The clampon ammeter measures these currents without breaking the circuit by measuring the strength of the magnetic field developed around each conductor. Current is read by separating the conductors and clamping the jaws of the ammeter around each conductor on which current is to be read. Low amperage readings indicate problems such as damaged heating elements, excess belt slippage, etc. High amperage readings indicate the unit being tested is operating under an increased mechanical or electri-

cal load. Worn parts or low voltage will show up as low amperage readings.

NOTE: Overloads on a circuit breaker or fuse can be traced to the product being tested or the circuit breaker (or fuse) by checking the product's current draw. If the amperage reading is less than the breaker reading, the breaker or fuse box is at fault.

USE OF AMMETER ON DRYER

There are two currents of concern to us in an electric dryer; the heating element current and the drive motor current. These currents can be measured by use of a "split line cord" extension for the dryer cord or by attaching the ammeter to the respective power line wires at the dryer terminal block. Current measured should be 21 amps on the heating element side of the line, 24 amps on the drive motor side of the line and 4 amps on the center or neutral line.

(38183) Motor Test Cord



The motor test cord may be used to electrically check operation of the drive motor while still installed in the unit. Testing of the motor in this

manner determines whether or not it will run independently of other electrical components.

Two test leads are required to check operation of the drive motor. To check the motor for running, hook up test cord as shown.

Location of terminals on motor may vary from drawing.

CHECKING HEAT CONTACTS MOTOR CENTRIFUGAL SWITCH

- 1. Disconnect dryer power source.
- 2. Gain access to motor and remove blue and black leads from motor switch.
- 3. Use either of the following test methods using appropriate caution.

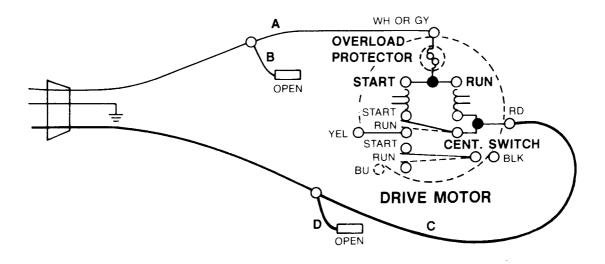
A. Live test — use caution

- 1. Using a 2-1110 wiring coupler, connect blue and black wires removed from motor switch. switch.
- 2. Reconnect dryer to power and set for heat cycle.
- 3. Start dryer, if heat is produced, replace motor switch on motor. If no heat, continue additional circuit checks.

B. Continuity Check

(Insulate wires removed from motor switch.)

- 1. Using clip adapters supplied with the Maytag Appliance Test Meter, attach meter probes to the blue and black motor switch terminals.
- 2. Arrange probe leads away from any moving parts and set meter on RX1 range.
- Reconnect dryer to power source and start dryer, continuity on meter indicates good switch. No continuity, replace motor switch or motor.
- 4. Open door to stop dryer. When motor stops, motor switch contacts must open, if not replace switch or motor.





Section 2

Electrical-Mechanical Troubleshooting

WILL NOT RUN

Dryer won't start or run.

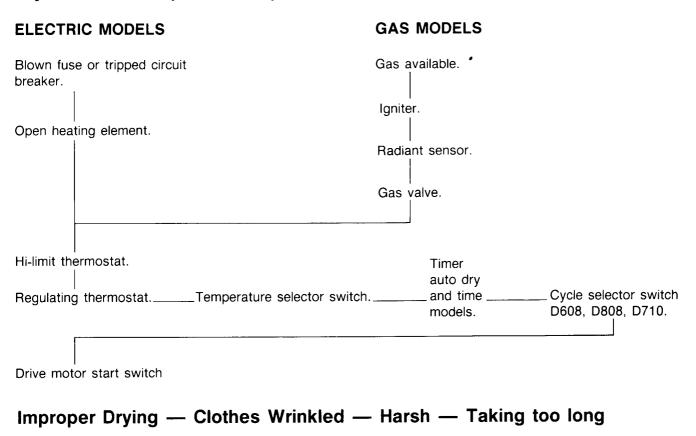
up to their corresponditerminals.	ng——— Dryer is pl	lugged in.———Blown f	use or circuit breaker.		
Door switch	Push-to-start switch Time and auto dry models.	Timer. Time and auto dry models.	_ Start control switch. Electronic control models.		
Cool down thermostat D712 only.	Drive motor.				
Drive motor runs — drum won't turn.					
Belt off or broken. ——	——Motor pulley loose or off.	Idler tension spring	ldler pulley.		
Dryer runs a few minutes and then stops — Motor overload protector opens.					
Lint build-up around dr motor.	iveLow voltage.	Blower impeller blocked.	————Drive motor.		

Dryer blows fuses or trips circuit breaker.

GAS MODELS ELECTRIC MODELS During ignition the dryer will draw The amperage readings are 7 amps. With the burner on, the at 240 volts. One line will be 24 dryer will draw 4.5 amps. If the amps and the other line will be 21 amps. The neutral line will be dryer is drawing the above amperage and the fuse blows, at 4.5 amps. If you have the the problem is not the dryer. above amperage readings, the Check the fuse box, circuit problem is not the dryer. Check breaker or house wiring. the fuse box, circuit breaker or house wiring. Igniter. Shorted heating element. Incorrect wiring or a wire shorting — — Drive motor. to ground.

WILL NOT DRY

Dryer won't heat (motor runs).



Lint filter is clean.——Restriction in exhaust.——Exhaust hood door stuck.——Exhaust too long.-

Poor make-up air. —	Incorrect drum speed. Adjust motor pulley or wrong motor pulley.	- Blower impeller b		alve cycles
Shorted heating —— element — electric dryers only	Customer overloading o	dryer	Check clothing labels for fabric content.	3

WILL NOT SHUT OFF

Time Dry Models

Timer motor — Timer

Auto Dry Models

Set timer for time dry. Check voltage across timer motor. If ——timer will not advance, replace timer.	When valve or element cycles — off, should have power to — timer motor. If not, proceed with next check.	Dryer cycling on hi limit ther- mostat. Check following.
Lint filter clean. ——Restriction in e	exhaust.—— Exhaust hood door stuck	k.—Exhaust too long.
Regulating thermostat.——Custon	ner is overloading dryer.	

WON'T SHUT OFF ON AIR FLUFF — D510

Dryer will shut off on air fluff only when the timer is set to Time Dry.

ELECTRONIC CONTROL MODELS D608, D710, D712, D808, D810

DRYER WON'T SHUT OFF. "SOLENOID NEVER ENERGIZES."

D608, D808

Be sure dryer heats, dries

Check for loose wires and be
clothes and condition relates to ——sure that all wires are conmalfunction of control.

Check for loose wires and be
sure that all wires are connected to correct terminals.

Blue at sensor coupler. Set
dial to damp dry. If dryer
shuts off within 60 seconds,
difficulty is caused from
leakage in sensor circuit.

Edgeboard connector with Shut-off solenoid. Unplug dryer Cycle selector switch. See and check for continuity Electrical Section for switch capacitor. Set dryer to regular between the two solenoid tercycle and start unit. While dryer is operating observe minals. neon bulb. If neon bulb flickers, replace edgeboard connector Electronic control board. with capacitor. D710, D712, and D810 Dryers, Permanent Press and Regular. Edgeboard connector with Electronic control board. Insert Be sure dryer heats, dries capacitor. Start dryer. While clothes and condition relates to -38204 electronic control test dryer is operating observe malfunction of control. board. Start dryer. If dryer neon lamp. If neon bulb flickshuts off in approximately 10 ers, replace edgeboard connecseconds, replace electronic tor with capacitor. control board. Sensor Circuit. Disconnect Shut-off solenoid. Unplug dryer Start control switch. With dryer and check for continuity unplugged and dial set on reg-White/Blue wire at coupler and ular, depress push-to-start butbetween the two solenoid terstart dryer on regular setting. ton. Check for continuity on If dryer shuts off in 12 to 15 minals. the start control switch minutes on dry or 18 to 22 minutes on 'more dry', diffibetween terminals White/Red to Orange on D710 dryers. On culty is caused from leakage to D810 dryers, check for conground in sensor circuit. tinuity between terminals Dryness control switch. Check for White/Red to Orange/Black on continuity between dryness constart control switch and on trol switch terminals. With normal D712, between White/Red 31 dry button depressed, you should and Yellow 35. No continuity, have continuity. replace start control switch. DRYER WON'T SHUT OFF "SOLENOID ENERGIZES". - D608, D710, D712, D808, D810. (Except when permanent press with adjustable press care is selected on models D712-D810) D608, D808 D710, D712, D810 Check to be sure start control Check to be sure selector switch switch tab is not broken. If start tab is not broken off. If tab is broken, replace selector switch. control switch tab is broken, After replacing selector switch, replace start control switch. After check for bent solenoid bracket. replacing start control switch, check for bent solenoid bracket. If bracket is bent, bend bracket Bend bracket up if bent. slightly upward. ----Cool-down thermostat. Shut-off linkage. Check for off ------ Bent solenoid bracket. If heat -stavs on, check for bent soleor broken shut-off solenoid noid bracket. linkage. Selector or start control

switch. Check switch per sche- matic of dryer being serviced.

MISCELLANEOUS

Dryer noisy.

-			
	Thumping sound. Rear drum roller(s) worn or misaligned.	Thumping sound. Check drui	n
•	Ticking sound. Check for an object caught in the blower.	Scraping sound. Front or rea bulkhead felt seal out of pos tion.	
arings mounted to the front ———	Popping or squealing sound. Check for a sticky belt or trayed belt.		
uzzer will not buzz at en	d of cycle. (Auto dry M	lodels)	
sure all wires are con- cted and wired correctly on timer, buzzer and drive otor.	Buzzer —	— Motor centrifugal switch sticl ing in run position.	(-
uzzer stays on too long	or goes off too quickly.	(Auto dry Models)	
ngth of time the buzzer ys on is dependent upon time it takes the motor to w down, allowing the motor itch to reset. The normal e increment is between 2 d 3 seconds.			
uzzer will not buzz durin	g Press Care Setting ([D610-D612 Dryers).	
th dial set on auto dry permanent - ess and the press care "on" button bressed, the buzzer will sound at the dof the normal 10 minute cool-dow er this, the dryer will continue to tu clothes in cool air for 24 minutes. ring this 24 minutes, the buzzer will und approximately every 5 minutes ee to eight seconds. If buzzer does a sound, proceed on.	e n. m-	——Miswired press ———Buzz care switch or timer.	er.
ring this 24 minutes, the buzzer will und approximately every 5 minutes ee to eight seconds. If buzzer does			

Buzzer will not periodically buzz during permanent press cool down (D512) _____ Timer

MISCELLANEOUS Pertaining to Electronic Control Dryers

Dryer shuts off before clothes are dry.

Dryer should be externally — Sensor circuit open. — Broken ground strap. grounded.

Loose wire connections or — Capacitor & edgeboard con- Electronic control board. incorrect wiring.

Timer will not advance during permanent press with Adjustable Press Care (D712 and D810).

Shut off solenoid must energize before timer will advance.

Timer. Check for continuity
between timer terminals black
and pink/black on D810 and
on D712 between black and
yellow.

Check for incorrect wiring or — Timer motor.

Start control switch. Check for
continuity between start control switch terminals pink/black
and red/black on D810 and
D712.

Time will not advance during Time Dry (D712)

Timer-check for continuity———Timer motor. between black and pink.

Repeating chime does not ring — Permanent Press Cycle.

Dryer must proceed to "cool-Cycle selector switch with dial Start control switch. Check for down" before repeating chime set on Permanent Press. continuity between terminals pink/black and red/black on will ring. Repeat chime switch Check for continuity between must be "on". pink to red/black on D710 dry-D710 dryers. On D712 and ers cycle selector switch. On D810 dryers, check between D608 and D808 check for conblue and white/brown on the start control switch with the tinuity on switch between gray and blue. When making this switch in the off position. check on D608 and D808 dryers, the selector switch should be in the off position. Timer D810. Check for con- If problem is not found in tinuity between orange and above checks, replace elecbrown timer terminals. On tronic control board. D712 check for continuity between brown and white/

brown.

Repeating chime does not sound during Permanent Press with Adjustable Press Care Setting (D712 and D810 dryers).

The chime will sound during this setting every 8 minutes — until the last 2-3 minutes. During the last 2-3 minutes, the chime will sound every 30 seconds until completion of the cycle.

Chime switch (D810) only. Be sure switch is on. With switch on, no continuity between terminals.

Start control switch. After solenoid energizes unplug dryer and check for continuity between pink to white/blue and pink/black to red/black on start control.

Timer. With Press care selection made, check for continuity between timer terminals white/ blue to brown on both the D712 and D810. On D712, also check from black to yellow and on the D810 check from black to pink-black.

If problem is not located in above checks, replace electronic control board.

Chime not loud enough.

Check to be sure chime actuator assembly is not broken or – loose.

Assuming everything is all right, the sound level of the chime cannot be changed.

Clothes not dry enough.

Be sure dryer is operating efficiently and controls are work-ing properly. Without a load of clothes in the dryer and the normal dry-ness selected, the dryer will shut off in approximately 14 minutes. With extra dryness selected, the dryer will shut off in approximately 22 minutes. If the dryer does not shut off according to the times listed, proceed on.

Temperature and dryness switch. On D608 and D808 dryers check for continuity between Gray 3 and Yellow 6 on temperature and dryness switch. On normal dryness there will be continuity and on extra dryness there will not be continuity.

Dryness switch on the D710, D712 and D810 dryers. Check for continuity between the two-switch terminals. On normal dry you will receive continuity and an extra dry you will not.

If dryer is operating as intended and customer prefers clothes drier, advise customer on aspects of electronic control dryers and how they dry the clothes to a certain dryness level.



Section 3

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