



ELECTROLUX MAJOR APPLIANCES OF NORTH AMERICA

# ***SERVICE MANUAL***

***Commercial Dryers***

***Gas & Electric***

***Models***

*Frigidaire*

***TAPPAN***

***W*** White-Westinghouse

**Gibson**

***Kelvinator*** 

# 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.

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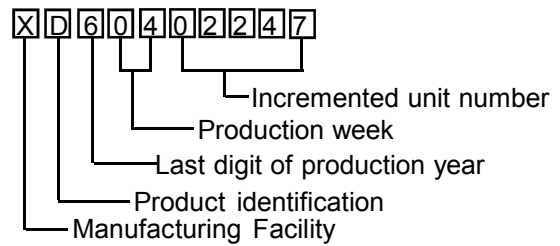
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## QUICK REFERENCE SHEET

1. Serial nameplate location: on the front panel at the left side of the dryer door opening.

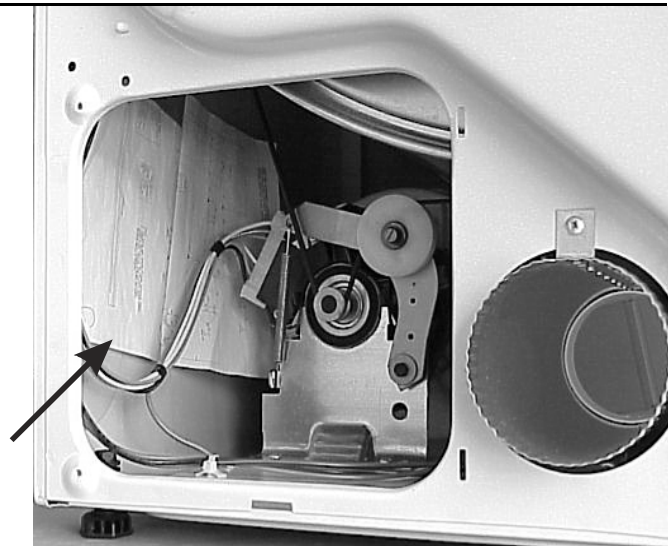


2. Serial number breakdown.



3. Wiring diagram location:

On the right-hand bodyside inside rear access panel.



## QUICK REFERENCE SHEET

SPECIFICATION	ELECTRIC MODELS	GAS MODELS
<b>Electrical</b>		
Volts 120/208 or 120/240	120/208 or 120/240	120
Amps (circuit)	30	15
Motor wattage	160-350 Watts	160-350 Watts
Heat input (Watts @ 208/240 VAC)	3200/4500	---
Heat input (BTU/Hr.)	---	20,000
Auto. Elec. Ignition	---	Yes
<b>Drum</b>		
Size (Cu. Ft.)	5.75	5.75
Finish	Powder Paint Epoxy	Powder Paint Epoxy
R.P.M.	48 - 54	48 - 54
<b>Airflow CFM</b>	200	200
<b>DRUM TEMPERATURES</b> (Max. opening on 1st cycle)		
High	134° - 180°	140° - 180°
Medium	130° - 170°	130° - 170°
Low	120° - 165°	120° - 165°
<b>Dimension (Inches)</b>		
Height	43 5/8"	43 5/8"
Width	26 7/8"	26 7/8"
Depth	25.5"	25.5"
<b>Vent Capability**</b>	4-Way	3-Way
<b>Top Finish</b>	Powder Paint Enamel	Powder Paint Enamel
<b>Port Opening (Sq. In.)</b>	235	235

\*\* Electric dryers can be vented four ways: through back, bottom, right or left side.

\*\* Gas dryers can be vented three ways: through back, bottom, or right side.

## QUICK REFERENCE SHEET

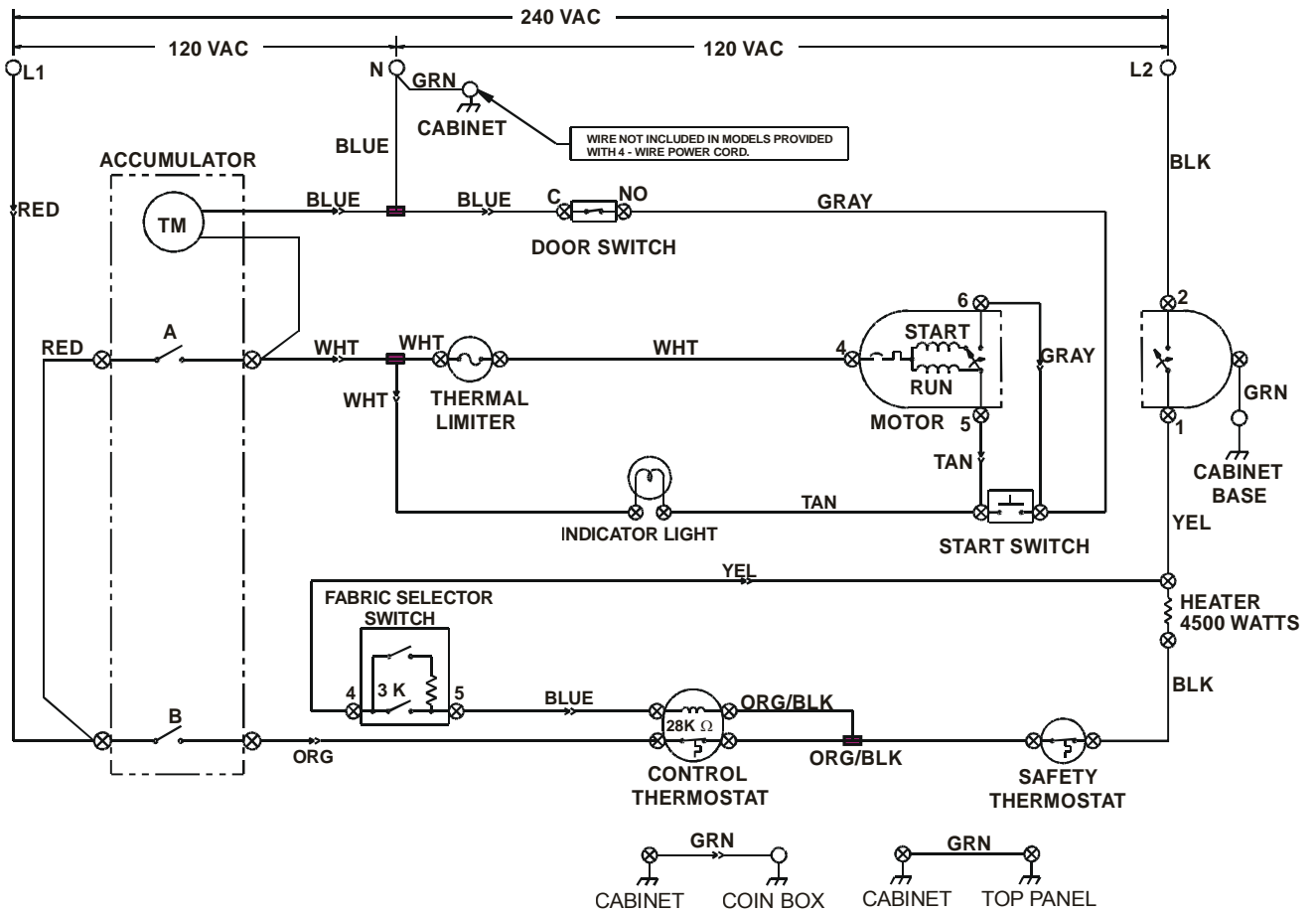
Component Resistances*	Electric Models	Gas Models
<b>Drive motor (120 volt, 60 Hz, 1/4 h.p. 1725 rpm)</b>		
Motor Start Winding	4.5 Ohms	4.5 Ohms
Motor Run Winding	3.8 Ohms	3.8 Ohms
<b>Heating Element</b>	12.8 Ohms	
<b>Burner Assembly</b>		
Ignitor	—	50 - 400 Ohms
Secondary Coil	—	1200 Ohms
Booster Coil	—	1320 Ohms

\* +/- 10% @ 77° F



### SAMPLE WIRING DIAGRAM FOR ELECTRIC MODELS

CAUTION: DISCONNECT ELECTRIC CURRENT BEFORE SERVICING. LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.



1ACCUMULATION.

DRIVE MOTOR	
HEATER	

**NOTES:**

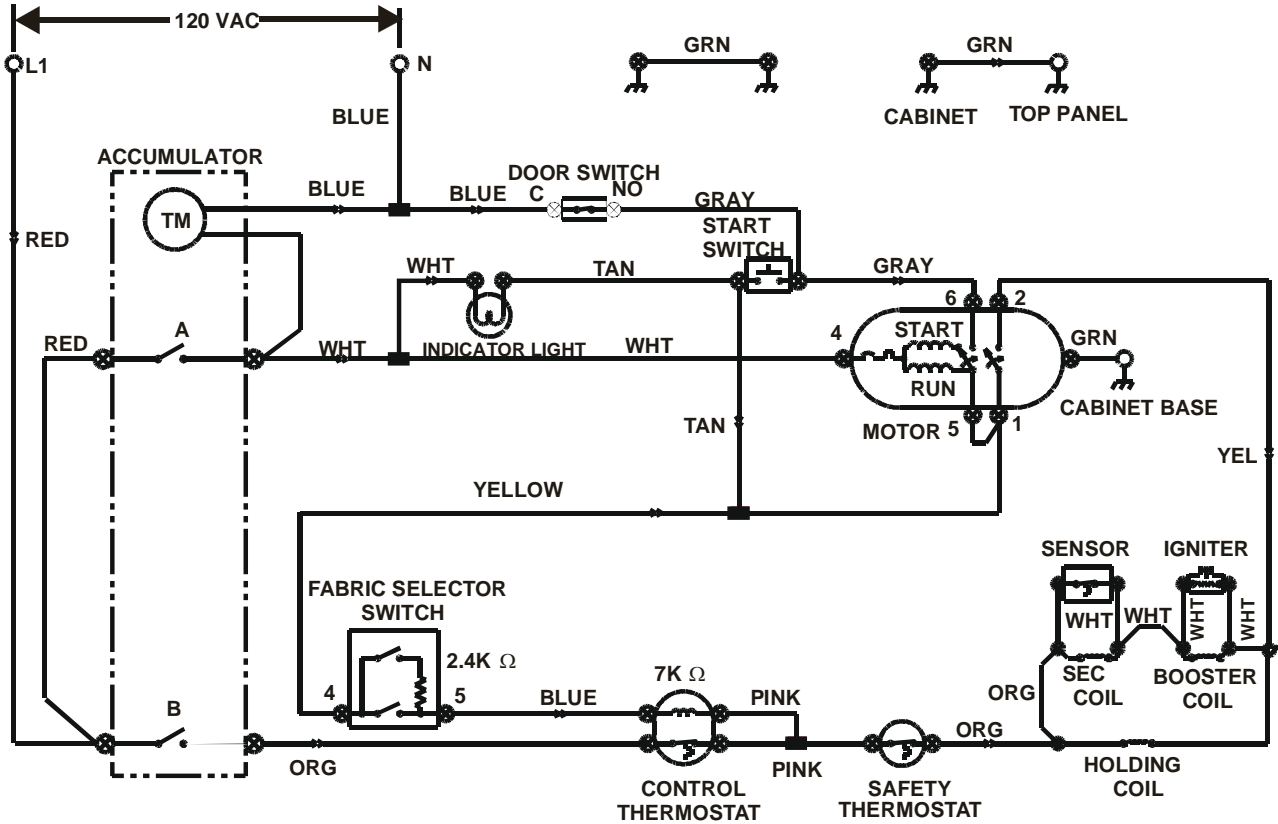
1. All wiring must conform to local electrical codes.
2. Connect dryer to a 30 amp individual branch circuit.
3. Motor at rest, thermostat closed and fabric selector switch at regular.

WIRING CODES	
⊗	QUICK DISCONNECT TERMINALS
+	CONNECTION
+	NO CONNECTION
⚡	MOTOR SWITCH
⊕	SPLICE
⚡	MOTOR PROTECTOR
⚡	CHASSIS (CABINET) GROUND
○	SCREW TERMINAL
⊗	HARNESS CONNECTOR TERMINAL
⊗	INSULATED TERMINAL
⚡	TRANSIENT VOLT SUPPRESSOR

FABRIC SELECTOR SWITCH	
FUNCTION	RESISTANCE Ω
HIGH	INFINITY
MEDIUM	3K +/-5%
LOW	10 MAX

### SAMPLE WIRING DIAGRAM FOR GAS MODELS

CAUTION: DISCONNECT ELECTRIC CURRENT BEFORE SERVICING. LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.



1ACCUMULATION.

DRIVE MOTOR	
HEATER	

#### NOTES:

1. All wiring must conform to local electrical codes.
2. Connect dryer to a 15 amp individual branch circuit.
3. Motor at rest, thermostat closed and fabric selector switch at regular.

WIRING CODES	
⊗	QUICK DISCONNECT TERMINALS
+	CONNECTION
+	NO CONNECTION
⊕	MOTOR SWITCH
⊕	SPLICE
⊕	MOTOR PROTECTOR
⊕	CHASSIS (CABINET) GROUND
○	SCREW TERMINAL
⊕	HARNESS CONNECTOR TERMINAL
⊕	INSULATED TERMINAL
⊕	TRANSIENT VOLT SUPPRESSOR

FABRIC SELECTOR SWITCH	
FUNCTION	RESISTANCE Ω
HIGH	INFINITY
MEDIUM	2.4K +/-5%
LOW	10 MAX

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## SECTION A - INSTALLATION INSTRUCTIONS GAS & ELECTRIC DRYER

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Before beginning installation, carefully read these instructions. This will simplify the installation and ensure the dryer is installed correctly and safely. Leave these instructions near the Dryer after installation for future reference.

NOTE: The electrical service to the Dryer must conform with local codes and ordinances and the latest edition of the National Electrical Code, ANSI/NFPA 70, or in Canada, the Canadian electrical code C22.1 part 1.

NOTE: The gas service to the Dryer must conform with local codes and ordinances and the latest edition of the National Fuel Gas Code ANSI Z223.1.

**⚠ WARNING** For your safety the information in this manual must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquid in the vicinity of this or any other appliance.

- **WHAT TO DO IF YOU SMELL GAS**

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Clear the room, building or area of all occupants.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation must be performed by a qualified or licensed contractor, plumber, or gasfitter qualified or licensed by the state, province, or region where this appliance is being installed.

## PRE-INSTALLATION REQUIREMENTS

### Tools and Materials Required for Installation:

1. Phillips head screwdriver.
2. Channel-lock adjustable pliers.
3. Carpenter's level.
4. Flat or straight blade screwdriver.
5. Duct tape.
6. Rigid or flexible metal 4 inch (10.2 cm) duct.
7. Vent hood.
8. Pipe thread sealer (Gas).
9. Plastic knife

## ELECTRICAL REQUIREMENTS

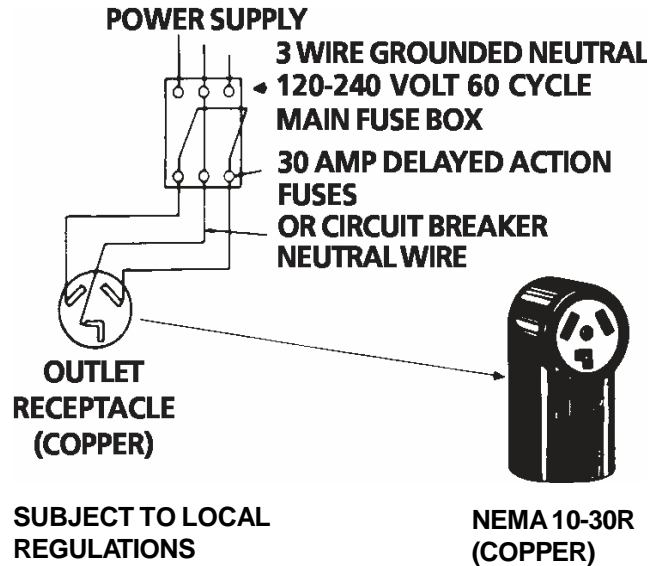
### ELECTRIC Dryer

**CIRCUIT** - Individual 30 amp. branch circuit fused with 30 amp. minimum time delay fuses or circuit breakers.

**POWER SUPPLY** - 3 wire, 240 volt, single phase, 60 Hz, Alternating Current.

**POWER SUPPLY CORD KIT** - The dryer **MUST** employ a 3-conductor power supply cord NEMA 10-30 type SRDT rated at 240 volt AC minimum, 30 amp., with 3 open end spade lug connectors with upturned ends or closed loop connectors and marked for use with clothes dryers. If being installed in a new branch circuit installation, manufactured (mobile) home, recreational vehicle or area which prohibits grounding through the neutral conductor, the dryer **MUST** employ a 4-conductor power supply cord NEMA 14-30 type SRDT or ST (as required) rated at 240 volt AC minimum, 30 amp., with 4 open end spade lug connectors with upturned ends or closed loop connectors and marked for use with clothes dryers. See ELECTRICAL CONNECTIONS FOR A 4-WIRE SYSTEM.

**OUTLET RECEPTACLE** - NEMA 10-30R or NEMA 14-30R receptacle to be located so the power supply cord is accessible when the dryer is in the installed position



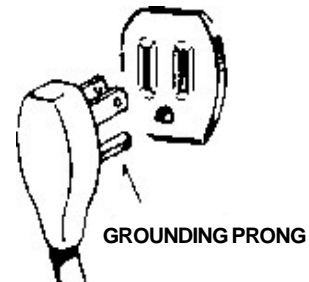
### GAS Dryer

**CIRCUIT** - Individual 15 amp. branch circuit fused with a 15 amp. maximum time delay fuse or circuit breaker.

**POWER SUPPLY** - 3 wire, 120 volt single phase, 60 Hz, Alternating Current.

**POWER SUPPLY CORD** - The dryer is equipped with a 120 volt 3-wire power cord.

**NOTE:** Do not under any circumstances remove grounding prong from plug.



## EXHAUST SYSTEM REQUIREMENTS

Use only 4 inch (10.2 cm) diameter (minimum) rigid or flexible metal duct and approved vent hood which has a swing-out damper(s) that open when the dryer is in operation. When the dryer stops, the dampers automatically close to prevent drafts and the entrance of insects and rodents. To avoid restricting the outlet, maintain a minimum of 12 inches (30.5 cm) clearance between the vent hood and the ground or any other obstruction.

**⚠️ WARNING** The following are specific requirements for proper and safe operation of your dryer. Failure to follow these instructions can create excessive drying times and fire hazards.

**⚠️ Do not use plastic flexible duct to exhaust the dryer.** Excessive lint can build up inside exhaust system and create a fire hazard and restrict air flow. Restricted air flow will increase dryer times. If your present system is made up of plastic duct or metal foil duct, **replace it** with a rigid or flexible metal duct. **Ensure the present duct is free of any lint prior to installing dryer duct.**



**⚠️ If the dryer is not exhausted outdoors, some fine lint will be expelled into the laundry area.** An accumulation of lint in any area of the home can create a health and fire hazard. **The dryer exhaust system MUST be exhausted to the outside of the dwelling!**



**⚠️ Do not allow combustible materials (for example: clothing, draperies/curtains, paper) to come in contact with exhaust system.** The dryer **MUST NOT** be exhausted into a chimney, a wall, a ceiling, or any concealed space of a building which can accumulate lint, resulting in a fire hazard.

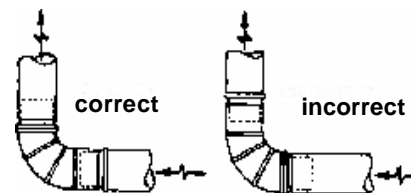
**⚠️ Exceeding the length of duct pipe or number of elbows allowed in the "MAXIMUM LENGTH" charts can cause an accumulation of lint in the exhaust system.** Plugging the system could create a fire hazard, as well as increase drying times.

**⚠️ Do not screen the exhaust ends of the vent system, nor use any screws or rivets to assemble the exhaust system.** Lint can become caught in the screen, on the screws or rivets, clogging the duct work and creating a fire hazard as well as increasing drying times. Use an approved vent hood to terminate the duct outdoors, and seal all joints with duct tape. All male duct pipe fittings **MUST** be installed downstream with the flow of air.

**⚠️ WARNING Explosion hazard.** Do not install the dryer where gasoline or other flammables are kept or stored. If the dryer is installed in a garage, it must be a minimum of 18 inches (45.7 cm) above the floor. Failure to do so can result in death, explosion, fire or burns.

MAXIMUM LENGTH of 4" (10.2 cm) Dia. Rigid Metal Duct			
VENT HOOD TYPE			
(Preferred)			
Number of 90° Turns		Louvered	
	4" (10.2 cm)		6.35 cm
0	60 ft. (18.28 m)		48 ft. (14.63 m)
1	52 ft. (15.84 m)		40 ft. (12.19 m)
2	44 ft. (13.41 m)		32 ft. (9.75 m)
3	32 ft. (9.75 m)		24 ft. (7.31 m)
4	28 ft. (8.53 m)		16 ft. (4.87 m)

MAXIMUM LENGTH of 4" (10.2 cm) Dia. Flexible Metal Duct			
VENT HOOD TYPE			
(Preferred)			
Number of 90° Turns		Louvered	
	4" (10.2 cm)		6.35 CM
0	30 ft. (9.14 m)		18 ft. (5.49 m)
1	22 ft. (6.71 m)		14 ft. (4.27 m)
2	14 ft. (4.27 m)		10 ft. (3.05 m)
3	NOT RECOMMENDED		



INSTALL MALE FITTINGS IN CORRECT DIRECTION

In installations where the exhaust system is not described in the charts, the following method must be used to determine if the exhaust system is acceptable:

1. Connect an inclined or digital manometer between the dryer and the point the exhaust connects to the dryer.
2. Set the dryer temperature to low heat and start the dryer.
3. Read the measurement on the manometer.
4. The system back pressure **MUST NOT** be higher than 0.75 or lower than .10 inches of water column. If the system back pressure is less than 0.75 inches and more than .10 inches of water column, the system is acceptable. If the manometer reading is

higher than 0.75 inches of water column, the system is too restrictive and the installation is unacceptable.

Although vertical orientation of the exhaust system is acceptable, certain extenuating circumstances could affect the performance of the dryer:

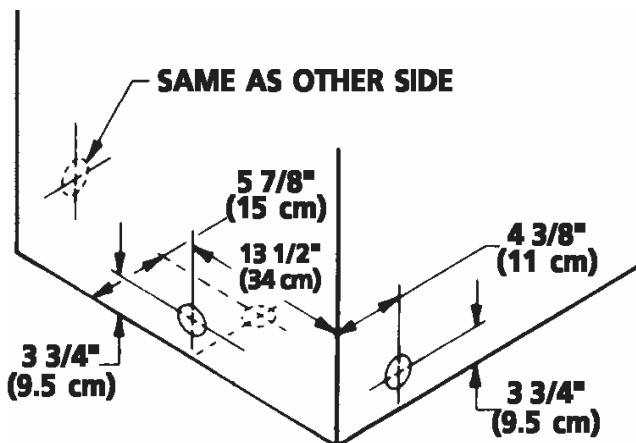
- Only the rigid metal duct work should be used.
- Venting vertical through a roof may expose the exhaust system to down drafts causing an increase in vent restriction.
- Running the exhaust system through an uninsulated area may cause condensation and faster accumulation of lint.
- Compression or crimping of the exhaust system will cause an increase in vent restriction.

The exhaust system should be inspected and cleaned a minimum of **every 6 months** with normal usage. The more the dryer is used, the more often you should check the exhaust system and vent hood for proper operation.

### EXHAUST DIRECTION

All dryers shipped from the factory are set up for rear exhausting. However, on electric dryers, exhausting can be to the right or left side of the cabinet or the bottom of the dryer. On gas dryers, exhausting can be to the right side of the cabinet or the bottom of the dryer. Directional exhausting can be accomplished by installing Exhaust Kit, P/N 131456800, available through your parts distributor. Follow the instructions supplied with the kit.

### EXHAUST DUCT LOCATING DIMENSIONS



### GAS SUPPLY REQUIREMENTS

**⚠ WARNING** Replace copper connecting pipe that is not plastic-coated. Stainless steel or plastic-coated brass **MUST** be used.

1. Installation **MUST** conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1 (latest edition)
2. The gas supply line should be of 1/2 inch (1.27 cm) pipe.
3. If codes allow, flexible metal tubing may be used to connect your dryer to the gas supply line. The tubing **MUST** be constructed of stainless steel or plastic-coated brass.
4. The gas supply line **MUST** have an individual shutoff valve.
5. A 1/8 inch (0.32 cm) N.P.T. plugged tapping, accessible for test gauge connection, **MUST** be installed immediately upstream of the gas supply connection to the dryer.
6. The dryer **MUST** be disconnected from the gas supply piping system during any pressure testing of the gas supply piping system at test pressures in excess of 1/2 psig (3.45 kPa).
7. The dryer **MUST** be isolated from the gas supply piping system during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.45 kPa).

### LOCATION OF YOUR DRYER

#### DO NOT INSTALL YOUR DRYER:

1. In an area exposed to dripping water or outside weather conditions.
2. In an area where it will come in contact with curtains, drapes, or anything that will obstruct the flow of combustion and ventilation air.
3. On carpet. Floor **MUST** be solid with a maximum slope of 1 inch (2.54 cm).

#### INSTALLATION IN RECESS OR CLOSET

1. A dryer installed in a bedroom, bathroom, recess or closet, **MUST** be exhausted outdoors.
2. No other fuel burning appliance shall be installed in the same closet as the Gas dryer.
3. Your dryer needs the space around it for proper ventilation.

**DO NOT INSTALL YOUR DRYER IN A CLOSET WITH A SOLID DOOR.**

4. A minimum of 120 square inches (774.2 square cm) of opening, equally divided at the top and bottom of the door, is required. Air openings are required to be unobstructed when a door is installed. A louvered door with equivalent air openings for the full length of the door is acceptable.

Closet door ventilation required: 2 louvered openings each 60 square inches (387 square centimeters) — 3 inches (7.6 cm) from bottom and top of door.

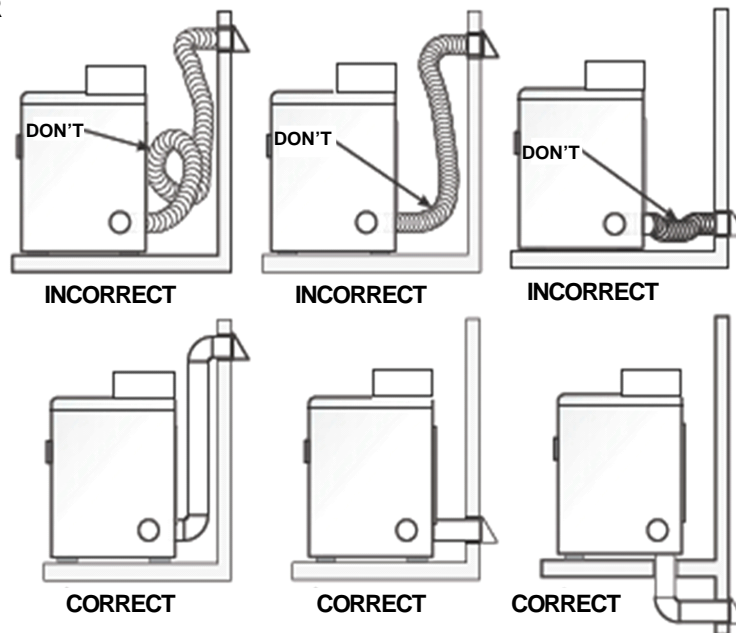
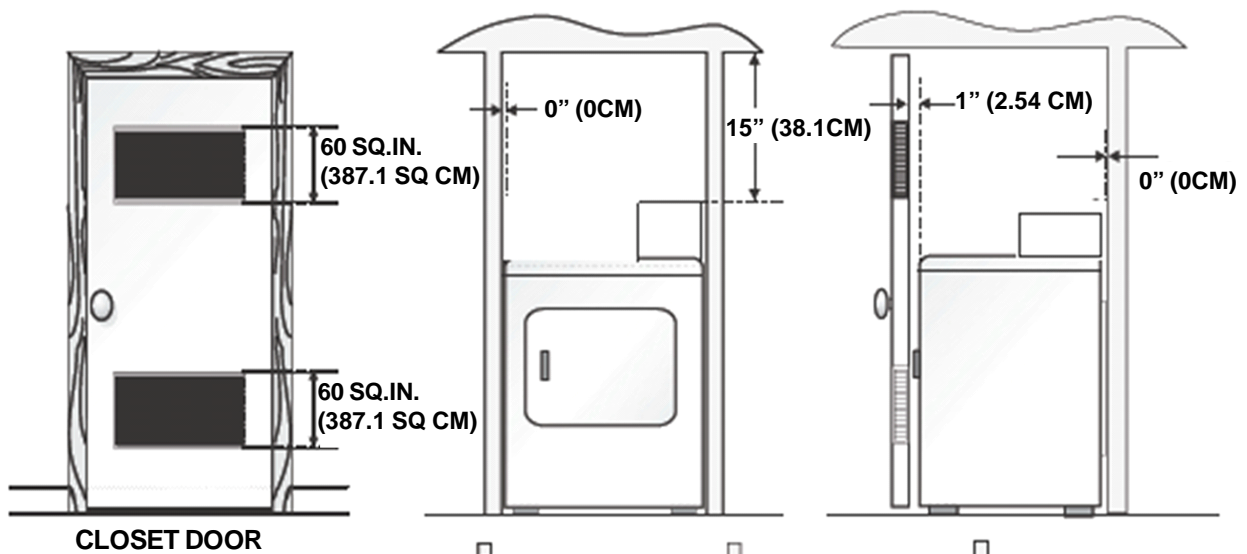
**NOTE:** Under counter and stack models - 0 inches (0 cm) for sides, rear, and top.

**MINIMUM INSTALLATION CLEARANCES (Inches)**

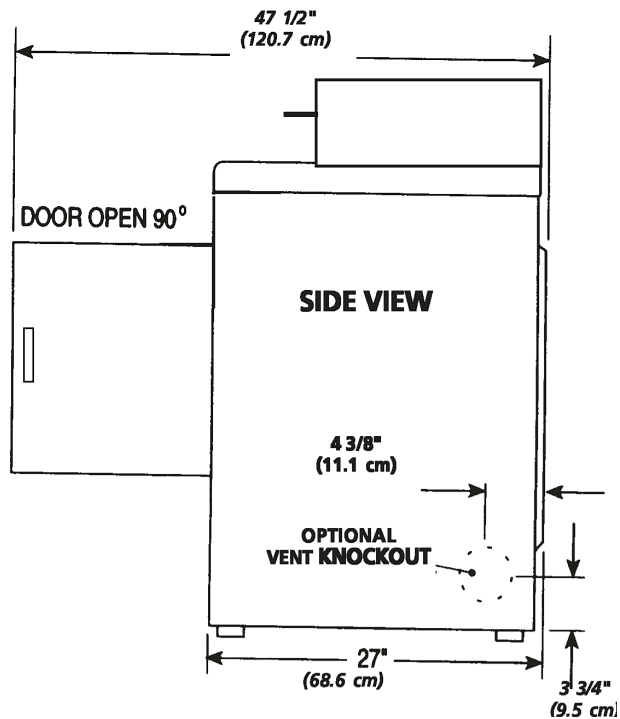
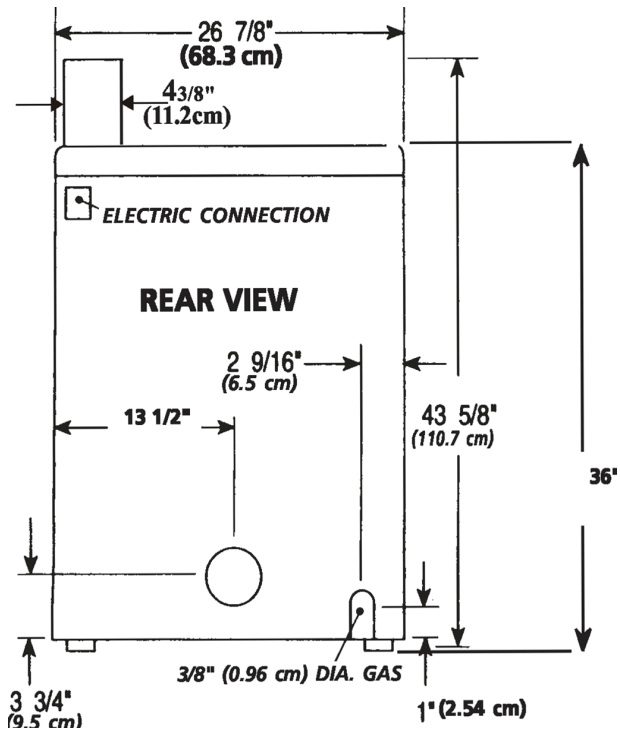
	SIDES	REAR	TOP	FRONT
Alcove	0 (0 cm)	0 (0 cm)	15 (38.1 cm)	
Closet	0 (0 cm)	0 (0 cm)	15 (38.1 cm)	1 (2.54 cm)

**THIS DRYER MUST BE EXHAUSTED OUTDOORS.**

5. The following illustrations show minimum clearance dimensions for proper operation in a recess or closet installation.



## ROUGH-IN DIMENSIONS

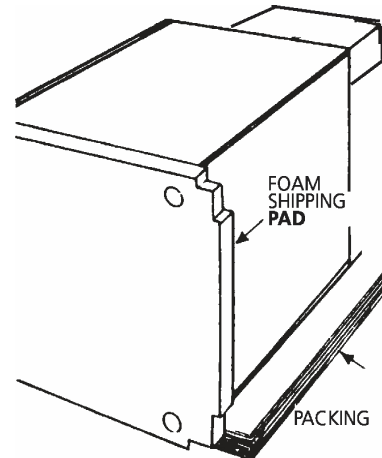


## UNPACKING

1. Using the four shipping carton corner posts (two on each side), carefully lay the dryer on its left side and remove foam shipping base.

**CAUTION** To prevent damage, do not use the control panel or coin meter housing as a means to pick up or move the dryer.

2. Return the dryer to an upright position.



## REVERSING DOOR SWING

Your dryer is designed so the door swing may be reversed at anytime without additional parts. Conversion is accomplished by transferring hinges to the opposite side of the cabinet.

### To change the direction of the door opening:

1. Open the dryer door. Remove the four hinge hole plugs from the left side of the door opening. Place nearby for future installation.

**NOTE:** You may need a plastic knife to help pull out the plugs. Be careful not to scratch the paint.

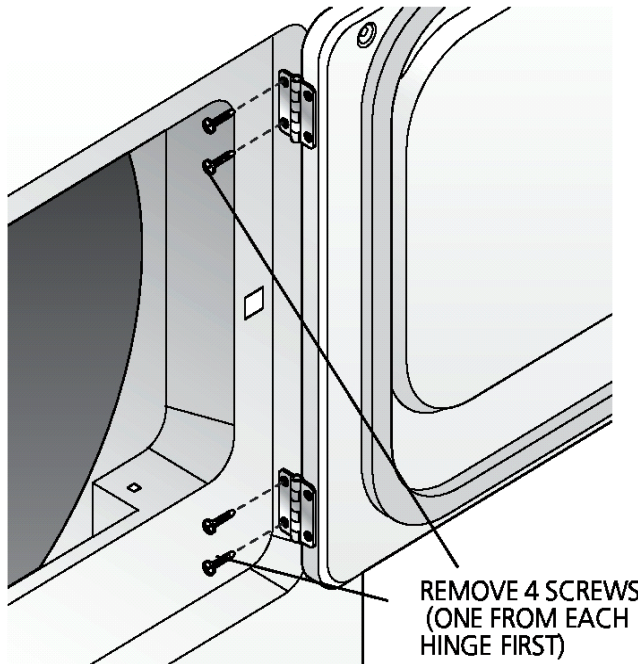
2. Remove the four screws that secure the door hinges to the dryer front panel.

**NOTE:** Remove one screw from each of the two hinges first. Hold the door firmly before removing the last two screws.

3. Rotate the door 180° and reinstall the door hinges to the dryer front panel with the four screws.

4. Install the four hinge hole plugs in the open screw holes on the right side of the door opening.





## ELECTRICAL INSTALLATION

Before proceeding with electrical installation, install the dryer's coin-metering system (when used) in accordance with the separate instructions provided with the meter.

### ALL ELECTRIC Dryers

**⚠ WARNING** The following are specific requirements for proper and safe electrical installation of your dryer. Failure to follow these instructions can create electrical shock and/or a fire hazard.

**⚠ WARNING** This appliance MUST be properly grounded. Electrical shock can result if the dryer is not properly grounded. Follow the instructions in this manual for proper grounding.

**⚠ WARNING** Do not use an extension cord with this dryer. Some extension cords are not designed to withstand the amounts of electrical current this dryer utilizes and can melt, creating electrical shock and/or fire hazard. Locate the dryer within reach of the receptacle for the length power cord to be purchased, allowing some slack in the cord. Refer to the pre-installation requirements in this manual for the proper power cord to be purchased.

**⚠ WARNING** A U.L. listed strain relief must be in-

stalled onto power cord. If the strain relief is not attached, the cord can be pulled out of the dryer and can be cut by any movement of the cord, resulting in electrical shock.

**⚠ WARNING** Do not use an aluminum wired receptacle with a copper wired power cord and plug (or vice versa). A chemical reaction occurs between copper and aluminum and can cause electrical shorts. The proper wiring and receptacle is a copper wired power cord with a copper wired receptacle.

**NOTE:** Dryers operating on 208 volt power supply will have longer drying times than operating on 240 volt power supply.

## GROUNDING REQUIREMENTS

### ELECTRIC Dryer

**⚠ DANGER** Improper connection of the equipment grounding conductor can result in a risk of electrical shock. Check with a licensed electrician if you are in doubt as to whether the appliance is properly grounded.

For a grounded, cord-connected dryer:

1. The dryer **MUST** be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electrical shock by a path of least resistance for electrical current.
2. If your dryer is equipped with a power supply cord having an equipment-grounding conductor and a grounding plug, the plug **MUST** be plugged into an appropriate, copper wired receptacle that is properly installed and grounded in accordance with all local codes and ordinances. If in doubt, call a licensed electrician.

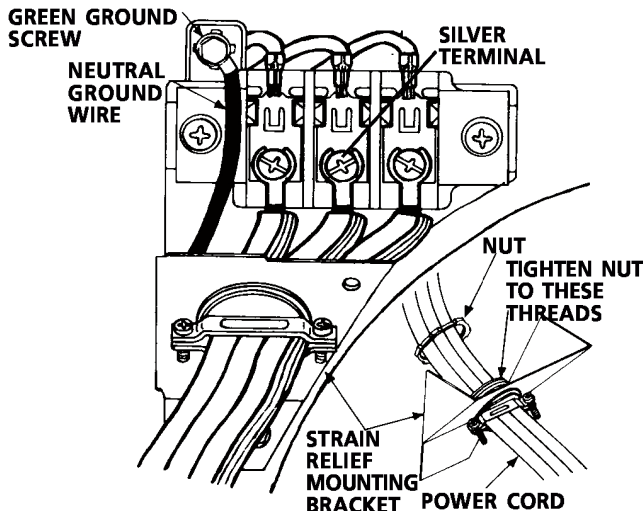
**Do not modify plug provided with the appliance.**

For a permanently connected dryer:

1. The dryer **MUST** be connected to a grounded metal, permanent wiring system; or an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the appliance.

### ALL GAS Dryers

This dryer is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.



**ELECTRICAL CONNECTIONS  
FOR 3-WIRE SYSTEM**

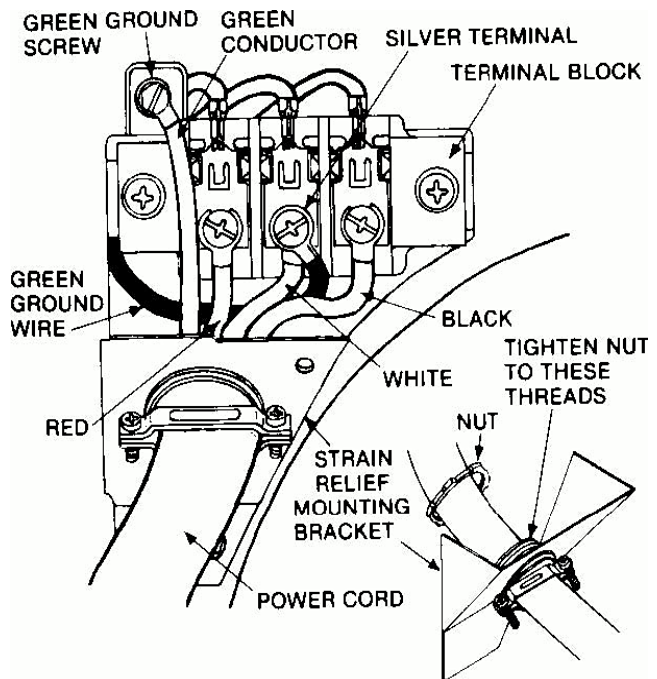
**ELECTRIC Dryer**

1. Remove the screws securing the terminal block access cover and the strain relief mounting bracket located on the back of the dryer upper corner.
2. Install a U.L. listed strain relief into the power cord entry hole of the mounting bracket. Finger tighten the nut only at this time.
3. Thread a U.L. listed 30 amp. power cord, NEMA 10-30 Type SRDT, through the strain relief.
4. Attach the power cord neutral (center wire) conductor to the silver colored center terminal on the terminal block. Tighten the screw securely.
5. Attach the remaining two power cord outer conductors to the outer brass colored terminals on the terminal block. Tighten both screws securely.

**⚠ WARNING** Do not make a sharp bend or crimp wiring/ conductor at connections.

6. Reattach the strain relief mounting bracket to the back of the dryer with two screws. Tighten screws securely.
7. Tighten the screws securing the cord restraint firmly against the power cord.

8. Tighten the strain relief nut securely so that the strain relief does not turn.
9. Reinstall the terminal block cover.



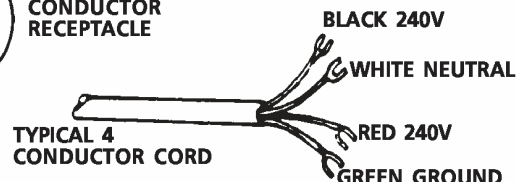
**ELECTRICAL CONNECTIONS  
FOR 4-WIRE SYSTEM**

**ELECTRIC Dryer**

1. Remove the screws securing the terminal block access cover and the strain relief mounting bracket located on the back of the dryer upper corner.
2. Install a U.L. listed strain relief in the entry hole of the mounting bracket. Finger tighten the nut only at this time.
3. Remove the ground wire from the green ground screw located above the terminal block.
4. Thread a U.L. listed 30 amp power cord, NEMA 14-30 type ST or SRDT through the strain relief.



**TYPICAL 4  
CONDUCTOR  
RECEPTACLE**



**30 AMP NEMA 14-30 TYPE SRDT OR ST**

5. Attach the green power cord ground wire to the cabinet with the green ground screw.
6. Attach the white (neutral) power cord conductor from the power cord and the neutral ground wire from the dryer harness (removed from the ground screw in step 3) to the silver-colored center terminal on the terminal block. Tighten the screw securely.
7. Attach the red and black power cord conductors to the outer brass-colored terminals on the terminal block.

**⚠ WARNING** Do not make a sharp bend or crimp wiring/conductor at the connections.

8. Tighten the screws securing the cord restraint firmly against the power cord.
9. Tighten the strain relief nut securely so the strain relief does not turn.
10. Reinstall the terminal block access cover.

## INSTALLATION

### 1. GAS CONNECTION (Gas dryers only)

- a. Remove the shipping cap from gas pipe at the rear of the dryer.

**NOTE:** **DO NOT** connect the dryer to L.P. gas service without converting the gas valve. An L.P. conversion kit must be installed by a qualified gas technician.

- b. Connect a 1/2 inch (1.27 cm) I.D. semi-rigid or approved pipe from gas supply line to the 3/8 inch (0.96 cm) pipe located on the back of the dryer. Use a 1/2 inch to 3/8 inch (1.27 cm to 0.96 cm) reducer for a connection. Apply an approved thread sealer that is resistant to the corrosive action of liquefied gases on all pipe connections.
- c. Open the shutoff valve in the gas supply line.
- d. Test all connections by brushing on a soapy water solution.

**NEVER TEST FOR GAS LEAKS WITH AN OPEN FLAME.**

2. Connect the exhaust duct to outside exhaust system. Use duct tape to seal all joints.
3. With the dryer in its final position, adjust one or more

of the legs until the dryer is resting solid on all four legs. Place a level on top of the dryer. **THE DRYER MUST BE LEVEL AND RESTING SOLID ON ALL FOUR LEGS.**

4. Plug the power cord into a grounded outlet.

**NOTE:** Check to ensure the power is off at circuit breaker/fuse box before plugging the power cord into the outlet.

5. Turn on the power at the circuit breaker/fuse box.

**⚠ CAUTION** Before operating the dryer, make sure the dryer area is clear and free from combustible materials, gasoline, and other flammable vapors. Also see that nothing (such as boxes, clothing, etc.) obstructs the flow of combustion and ventilation air.

6. Run the dryer through a cycle check for proper operation.

**NOTE:** On gas dryers, before the burner will light, it is necessary for the gas line to be bled of air. If the burner does not light within 45 seconds the first time the dryer is turned on, the safety switch will shut the burner off. If this happens, turn the timer to "OFF" and wait 5 minutes before making another attempt to light.

7. Place these instructions in a location near the dryer for future reference.

**NOTE:** A wiring diagram is located inside the dryer.

## REPLACEMENT PARTS

If replacement parts are needed for your dryer, contact the source where you purchased your dryer, call 1-800-944-9044, or visit our website, [www.frigidaire.com](http://www.frigidaire.com), for the Frigidaire Company Authorized Parts Distributor nearest you.

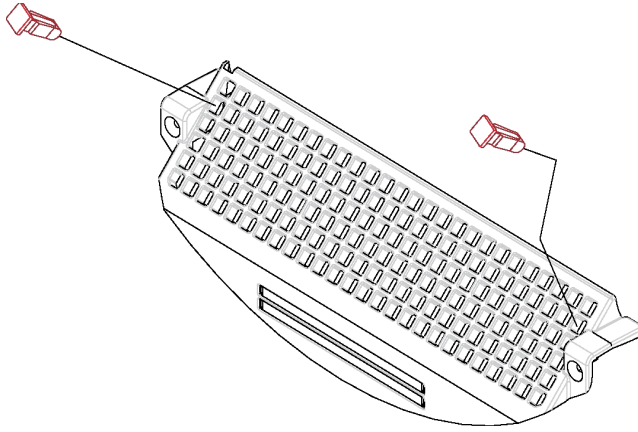
**⚠ CAUTION** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

**⚠ WARNING** Destroy the carton and plastic bags after the dryer is unpacked. Children might use them for play. Cartons covered with rugs, bedspreads, or plastic sheets can become airtight chambers causing suffocation. Place all materials in a garbage container or make materials inaccessible to children.

**⚠ WARNING** The instructions in this manual and all other literature included with this dryer are not meant to

cover every possible condition and situation that may occur. Good safe practice and caution **MUST** be applied when installing, operating and maintaining any appliance.

### Lint Blade Retaining Pin Location and Orientation



**Install the pins after the lint blade is installed.**

## Commercial Appliance Warranty Information

Your appliance is covered by a one year limited warranty. For one year from your original date of purchase, Electrolux will pay all costs for repairing or replacing any parts of this appliance that prove to be defective in materials or workmanship when such appliance is installed, used and maintained in accordance with the provided instructions.

### **SAMPLE WARRANTY ALWAYS REFER TO WARRANTY WITH PRODUCT**

#### **Exclusions**

#### **This warranty does not cover the following:**

1. All labor costs on commercial laundry products.
2. Payment acceptance devices for commercial laundry products.
3. Products with original serial numbers that have been removed, altered or cannot be readily determined.
4. Normal wear and tear and gradual deterioration.
5. Product that has been transferred from its original owner to another party or removed outside the USA or Canada.
6. Rust on the interior or exterior of the unit.
7. Products purchased "as-is".
8. Food loss due to any refrigerator or freezer failures.
9. Damage caused at any time during shipment.
10. Service calls which do not involve malfunction or defects in materials or workmanship, or for appliances used other than in accordance with the provided instructions.
11. Service calls to correct the installation of your appliance or to instruct you how to use your appliance.
12. Expenses for making the appliance accessible for servicing, such as removal of trim, cupboards, shelves, etc., which are not a part of the appliance when it is shipped from the factory.
13. Service calls to replace appliance light bulbs, air filters, water filters, other consumables, or knobs, handles, or other cosmetic parts.
14. Surcharges including, but not limited to, any after hour, weekend, or holiday service calls, tolls, ferry trip charges, or mileage expense for service calls to remote areas, including the state of Alaska.
15. Damages to the finish of appliance and/or location that are incurred during installation, including but not limited to floors, cabinets, walls, etc.
16. Damages caused by: services performed by unauthorized service companies; use of parts other than genuine Electrolux parts or parts obtained from persons other than authorized service companies; or external causes such as abuse, misuse, inadequate power supply, accidents, fires, or acts of God.
17. Labor costs after ninety (90) days from your original date of purchase incurred for product repair or replacement as provided herein for appliances operated by a concessionaire or vendor in a trailer or other motorized vehicle or at varying locations.

**DISCLAIMER OF IMPLIED WARRANTIES; LIMITATION OF REMEDIES** CUSTOMER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR OR REPLACEMENT AS PROVIDED HEREIN. CLAIMS BASED ON IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR OR THE SHORTEST PERIOD ALLOWED BY LAW, BUT NOT LESS THAN ONE YEAR. ELECTROLUX SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES SUCH AS PROPERTY DAMAGE AND INCIDENTAL EXPENSES RESULTING FROM ANY BREACH OF THIS WRITTEN LIMITED WARRANTY OR ANY IMPLIED WARRANTY. SOME STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES, SO THESE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WRITTEN WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

#### **If You Need Service**

Keep your receipt, delivery slip, or some other appropriate payment record to establish the warranty should service be required. If service is performed, it is in your best interest to obtain and keep all receipts. Service under this warranty must be obtained by contacting Electrolux at the addresses or phone numbers below.

This warranty only applies in the USA and Canada. In the USA, your appliance is warranted by Electrolux Major Appliances North America, a division of Electrolux Home Products, Inc. In Canada, your appliance is warranted by Electrolux Canada Corp. Electrolux authorizes no person to change or add to any obligations under this warranty. Obligations for service and parts under this warranty must be performed by Electrolux or an authorized service company. Product features or specifications as described or illustrated are subject to change without notice.

#### **USA**

**1.866.738.1640**

Electrolux Major Appliances  
North America  
P.O. Box 212378  
Augusta, GA 30907

#### **Canada**

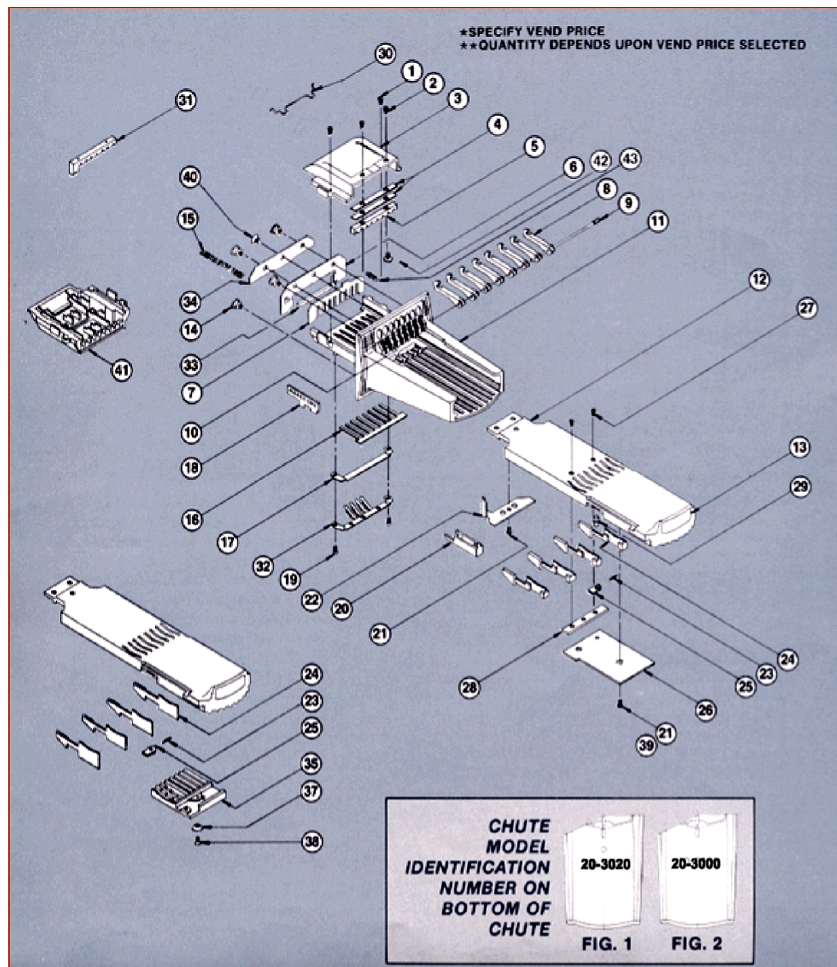
**1.866.738.1640**

Electrolux Canada Corp.  
5855 Terry Fox Way  
Mississauga, Ontario, Canada  
L5V 3E4

# CHANGING THE VEND PRICE ON A GREENWALD V8 COIN CHUTE

## CHANGING THE PRICE OF A V8 COIN CHUTE ID# 20-3000

1. Remove slide return spring (#15).
2. Remove slide stop (#22).
3. Remove slide (#12) from chute.
4. Turn slide upside down and remove screw (#38). DO NOT REMOVE COIN RECEIVER BLOCK.
5. Turn slide and block right side up and lay on a flat surface.
6. Lift slide clear of block and set aside.
7. To change prices, add or remove blockout keys (#24) or inserts (#20).
8. Replace coin receiver block into slide and reinstall into coin chute.
9. FOR 10¢ PRICING:
  - A. Remove top housing (#3).
  - B. Install correct coin sizing block (#31) or (#36).
  - C. Reinstall top housing and return spring.
10. Install appropriate price decals (#10 & #13).



## CHANGING THE VEND PRICE ON A GREENWALD V8 COIN CHUTE

### CHANGING THE PRICE OF A V8 COIN CHUTE ID# 20-3020

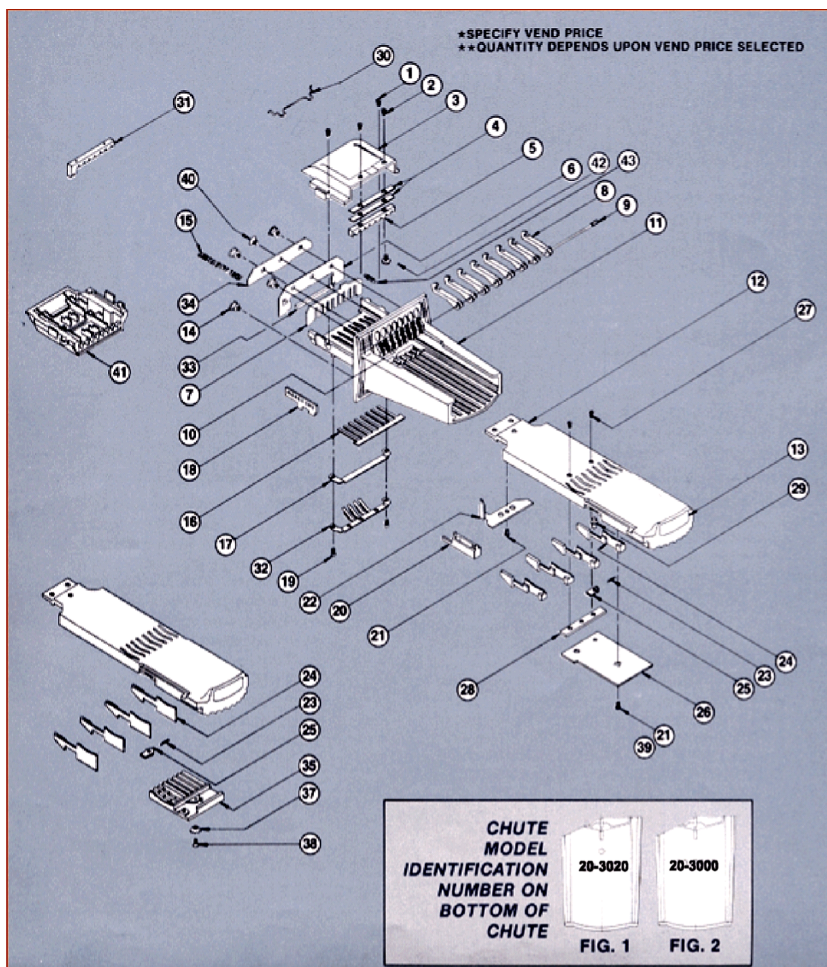
#### A. TO CHANGE 25¢ PRICING

1. Remove slide return spring (#15).
2. Place coin(s) in coin slot(s) and push slide all the way forward.
3. Remove buffer (#28).
4. Turn coin chute upside down and install or remove the required number of blockout keys (#24). Remove keys to increase vend, add keys to lower vend.
5. Reassemble buffer.
6. Pull slide back to original position and reassemble slide return spring.
7. Install appropriate price decals (#10 & #13).

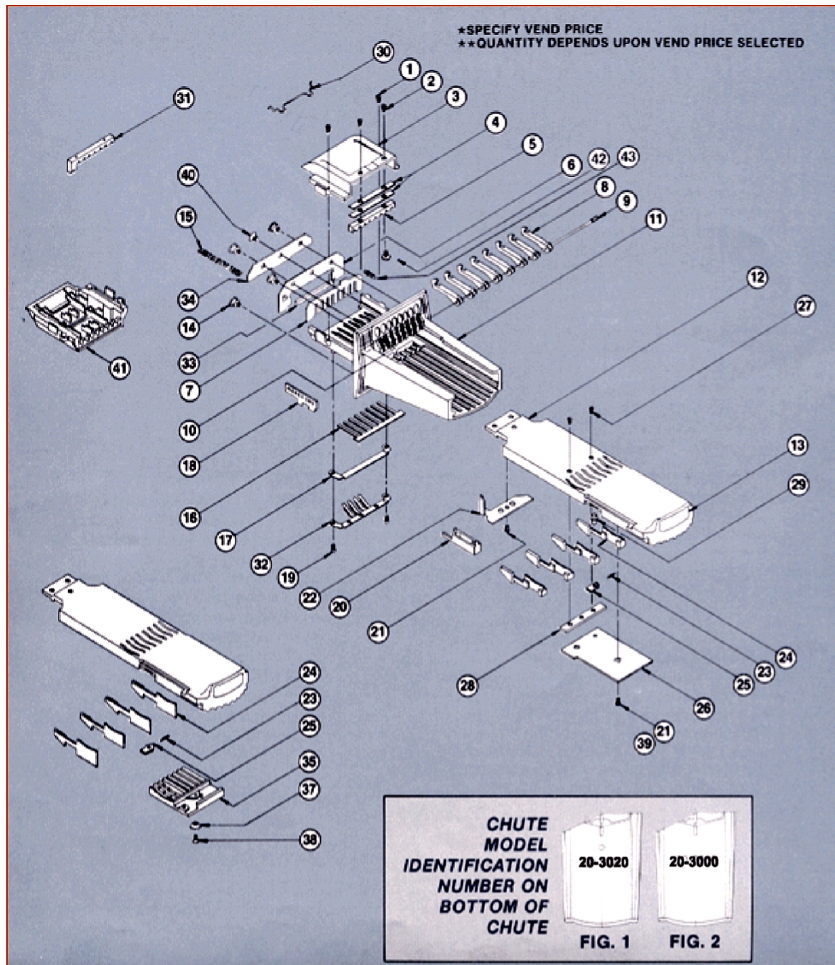
#### B. TO CHANGE 10¢ PRICING

1. Follow Steps 1, 2, 3, 4 in A above.
2. Turn coin chute upside down. Install or remove required number of blockout keys (#24). Install or remove 10¢ insert (#20) into left hand slot of slide (right hand slot with slide turned upside down).
3. Reassemble buffer and pull slide back.
4. Remove top housing (#3).
5. Remove two screws (#2) and coin sizing block (#5). Install 10¢ coin sizing block (#31).
6. Reassemble top housing and return spring.
7. Install appropriate price decals (#10 & #13).

For additional information online use website,  
[www.greenwaldindustries.com](http://www.greenwaldindustries.com)



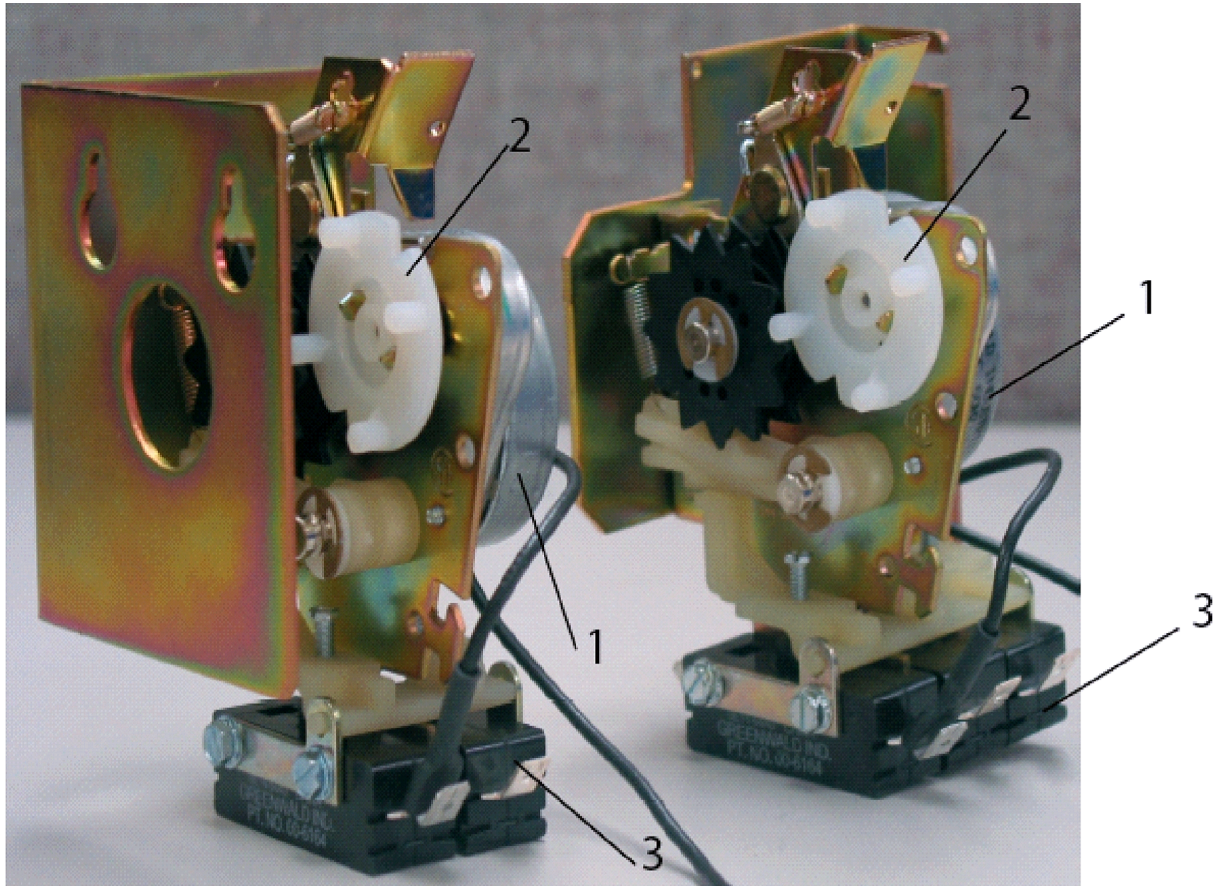
# PARTS LIST FOR GREENWALD V8 COIN CHUTES



ITEM	REQ'D	PART NO	DESCRIPTION	ITEM	REQ'D	PART NO	DESCRIPTION
1	2	00-9724	screw (metric)	33	varies	27-3008	coin sizing block (\$.05)
2	2	00-7938	screw (metric)	34	varies	27-3007	coin sizing block (\$.10)
3	1	20-3019	top housing.	35	varies	27-3009	coin sizing block (\$.05 x \$.10)
4	2	20-2042	shim	36	varies	27-3010	coin sizing block (\$.10 x \$.10)
5	1	20-3006	coin sizing block	37	varies	00-7936	screw (metric)
6	1	20-2043	gate cover	38	—	—	sizing plate housing
7	1	20-2035	gate	39	—	—	sizing plate (\$.25)
8	8	20-2011	slide stop dog	40	—	—	sizing plate (\$1.00)
9	1	20-4004	dog shaft	41	—	—	insert (\$.25)
10	1	00-9905	decals casting	42	optional	00-9255	magnet
11	1	20-3020	body casting	43	optional	27-1016	pressure spring assembly
12	1	20-3021	coin slide	44	optional	00-7541	screw
13	1	00-9104	decals, slide	45	optional	27-1027-1	top housing assembly (U.S.)
14	4	00-7483	chute locating screw	46	—	—	top housing assembly (Canada 0-\$2.75)
15	1	00-8148	slide return spring	47	—	—	spring
16	1	20-2040	spring				
17	1	20-2038	spring protector				
18	1	20-2023	rack				
19	2	00-7931	screw (metric)				
20	varies	20-3023	\$.10 insert				
21	2	00-7923	screw (metric)				
22	1	20-2039	slide stop				
23	1	00-8123	ratchet dog spring				
24	varies	20-5002	blockout key				
25	1	20-2941	slide ratchet dog				
26	2	00-7935	screw (metric)				
27	1	20-2034	buffer				
28	1	20-4005	ratchet dog post				
29	optional	00-8168	coin retainer				
30	varies	20-3007	coin sizing block				
31	varies	27-5011	\$.05 insert				
32	varies	20-3023	\$.10 insert				



**Meter Case Instructions and Parts List  
Parts List For Greenwald Dryer Timers**



**Timer Assembly  
Model 50-1232-9**

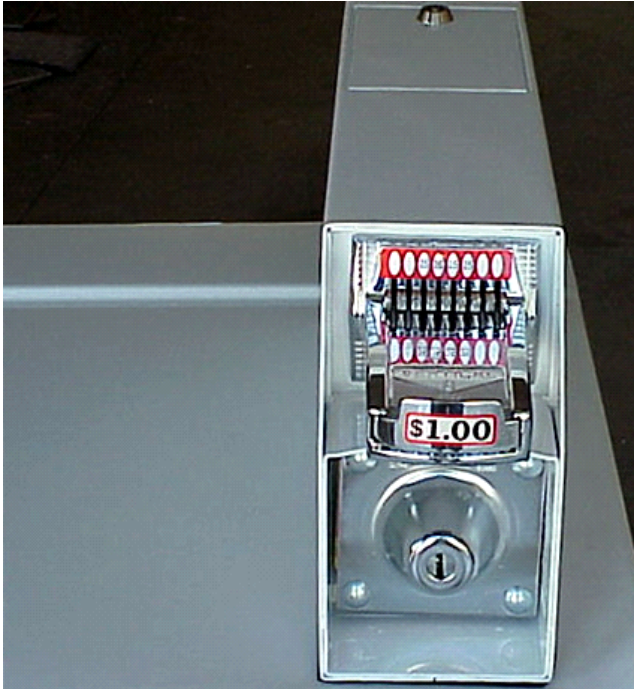
**Timer Assembly  
Model 50-1223-10**

ITEM	PART NUMBERT	DESCRIPTION
1.	50 - 61 - 13 - 2	Timing motor, 115 VAC, 1/180 RPM
2.	51 - 161 - 4	Timing cam, 4 - PIN (45 minutes)*
3.	00-6164	Switch
*Additional cams that are available. Cams pull off and push on for replacement.	51 - 161 - 1	Timing cam, 1- PIN (180 Minutes)
	51 - 161 - 2	Timing cam, 2- PIN (90 Minutes)
	51 - 161 - 3	Timing cam, 3- PIN (60 Minutes)
	51 - 161 - 5	Timing cam, 5- PIN (36 Minutes)
	51 - 161 - 6	Timing cam, 6- PIN (30 Minutes)
	51 - 161 - 7	Timing cam, 7- PIN (25.7 Minutes)
	51 - 161 - 8	Timing cam, 8- PIN (22.5 Minutes)
	51 - 161 - 9	Timing cam, 9- PIN (20 Minutes)
	51 - 161 - 10	Timing cam, 10- PIN (18 Minutes)
	51 - 161 - 11	Timing cam, 11- PIN (16.3 Minutes)
	51 - 161 - 12	Timing cam, 12- PIN (15 Minutes)

## SECTION B - OPERATION

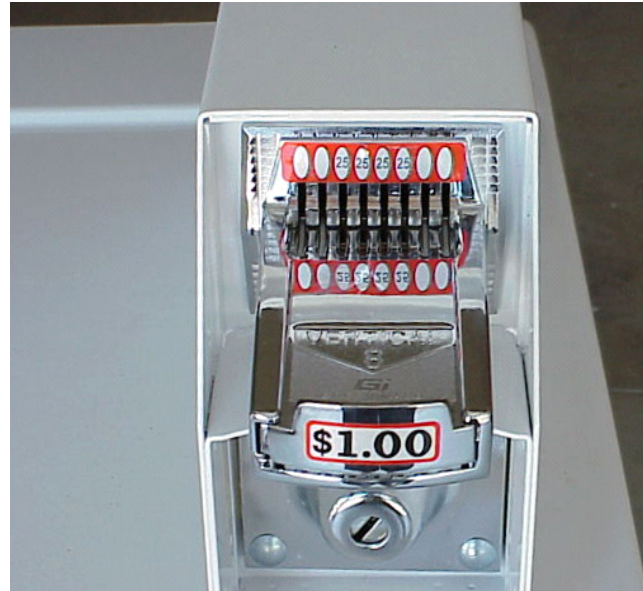
### Coin box

The coin box is mounted to the main top and contains three parts:



### Coin chute:

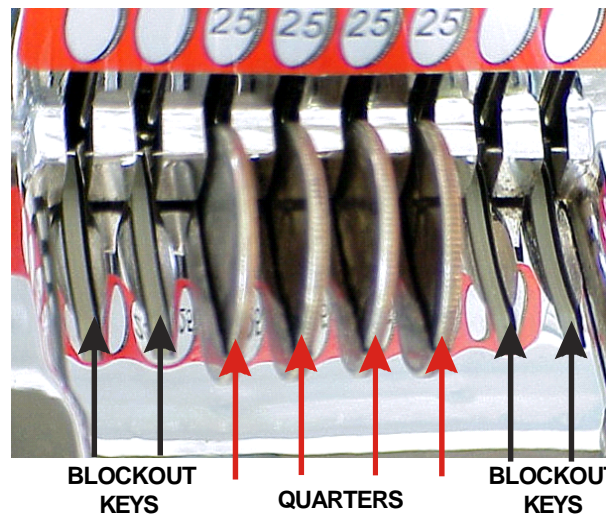
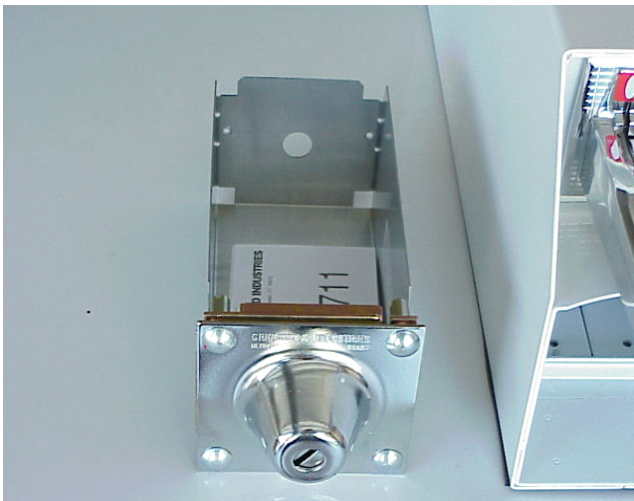
The coin chute where the money is inserted into the machine.



When the washer is shipped from the factory the coin chute is set up with (4) blockout keys (2 on each end), and (4) open slots for quarters.

### Coin drawer:

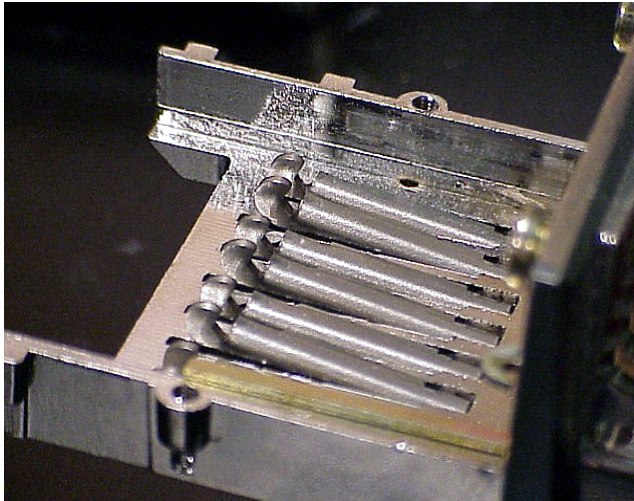
A lockable coin drawer where the money is collected.



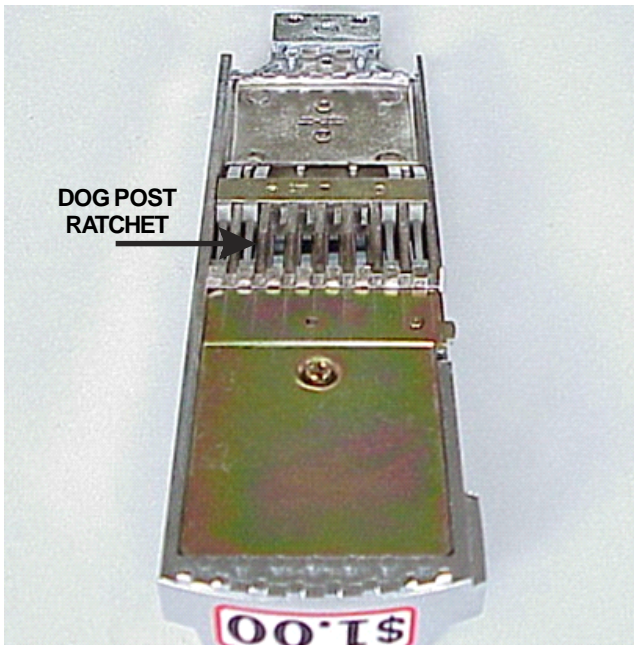
The number of block out keys may be increased to reduce the number of coins needed or decreased to increase the number of coins needed.

The sizing plate may be changed to accept different size coins (quarters, dimes and nickels) allowing the owner to set the type of coins needed to operate the machine.

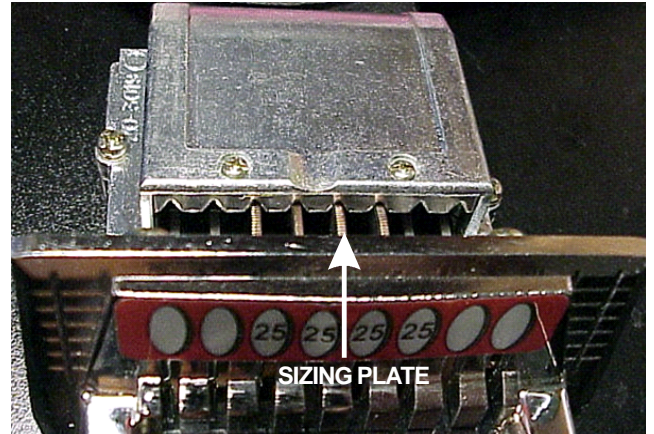
The body casting of the coin chute has (8) spring-loaded hooks, called dog slide stops, mounted in it.



Unless these hooks are depressed, when the coin slide is pushed in, they hit the bar mounted to the underside of the coin slide, called the ratchet dog post. This prevents a coin slide from being pushed completely in.



When the correct amount and size of coins are placed in the slide and the slide is pushed in the coins enter the sizing plate which pushes down on the coins.



The coins and blackout keys combine to depress the dog slide stops and allow the coin slide to be pushed in. The coins then pass over an opening that allows them to drop into the coin drawer.

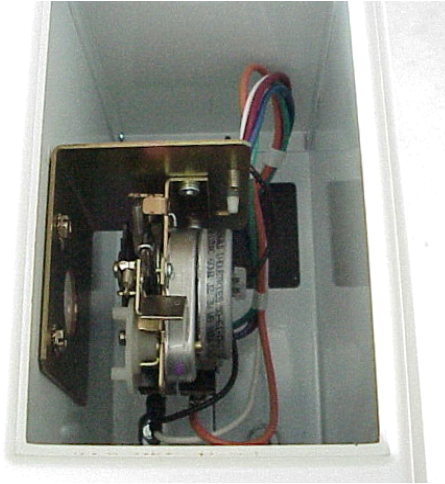
If the coins are too large, the sizing plate prevents the slide from being pushed in any further. If the coins are too small, they do not depress the slide stop dogs and the coin slide cannot be pushed in.

As the coin slide is pushed in, the plate on the end of the coin slide pushes the spring loaded ratchet arm of the meter case timer. When the coin slide is withdrawn, the ratchet arm moves forward advancing the cam in the meter case one increment.

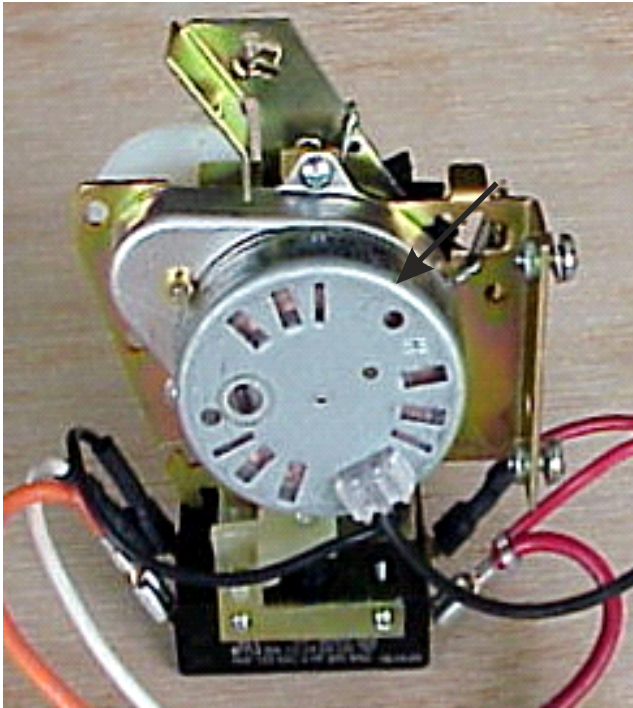


## Meter Case Timer (Accumulator):

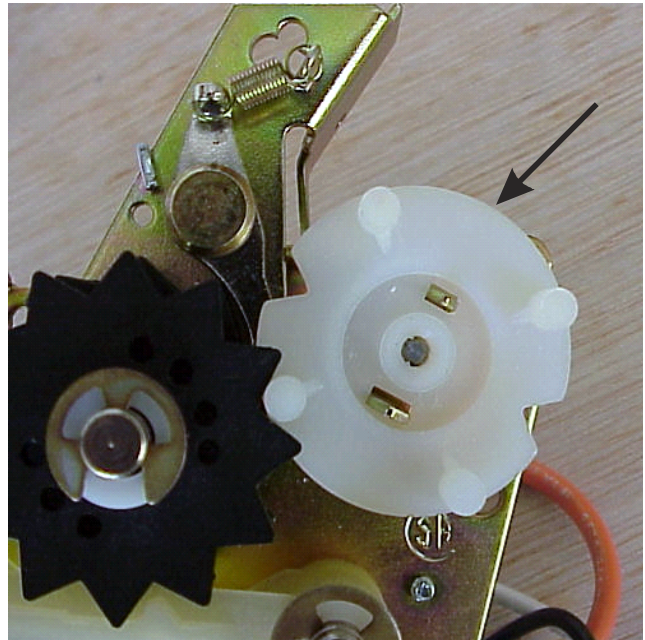
The meter case timer is mounted inside the coin box, and controls power to the dryer and the amount of dry time.



The timer is made up of the timer drive motor,

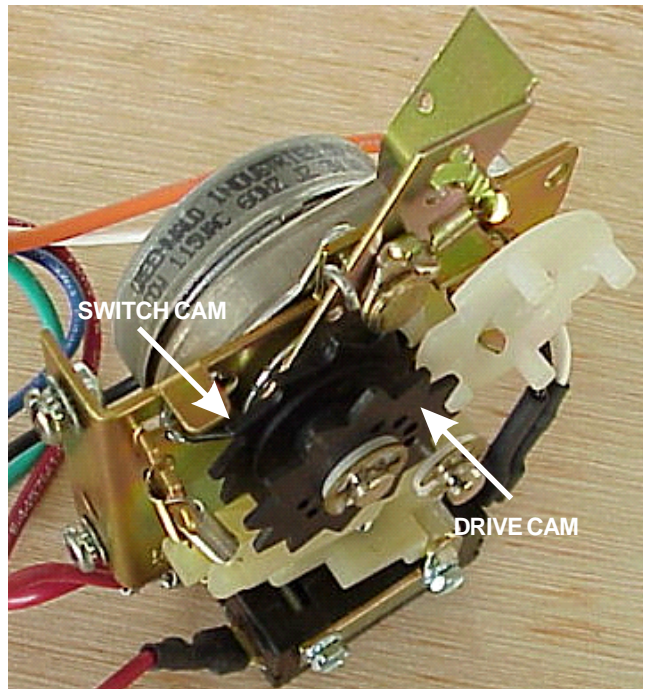


timing cam,

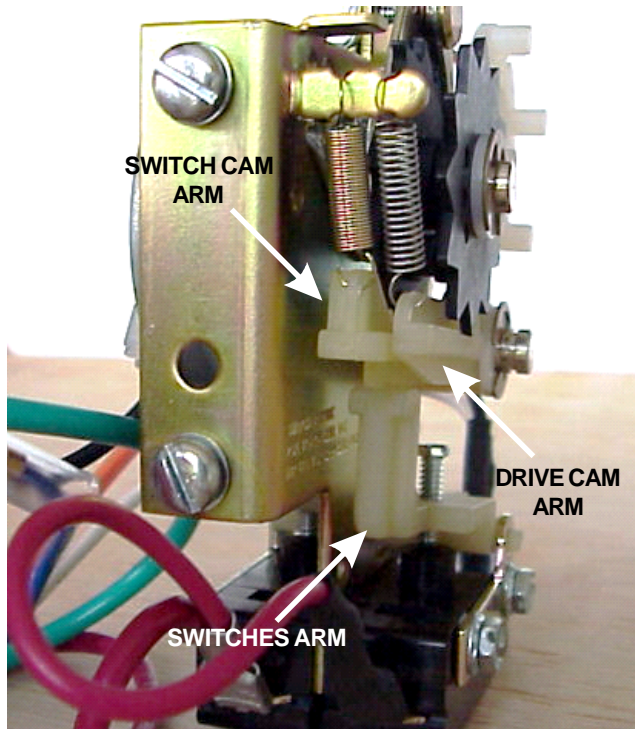


**Note:** The dryers is shipped with a four pin timing cam and the cycle time is 45 minutes. The cycle time may be increased or decreased by replacing the timer cam with a cam that has more or less pins.

The switch cam and drive cam,

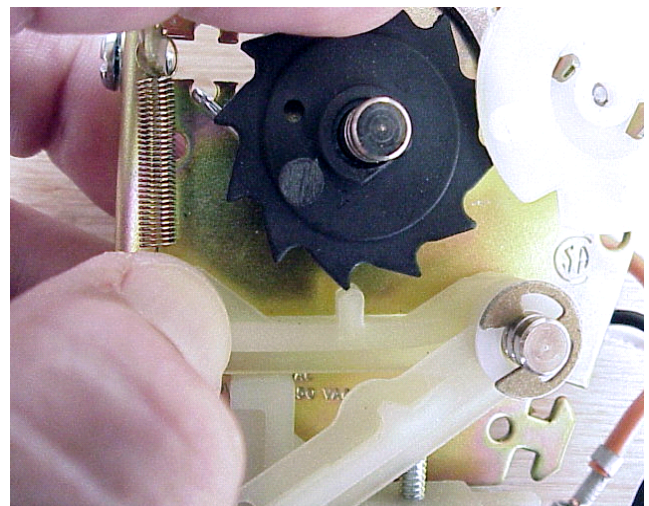


The drive cam arm, switch cam arm and the switches arm and

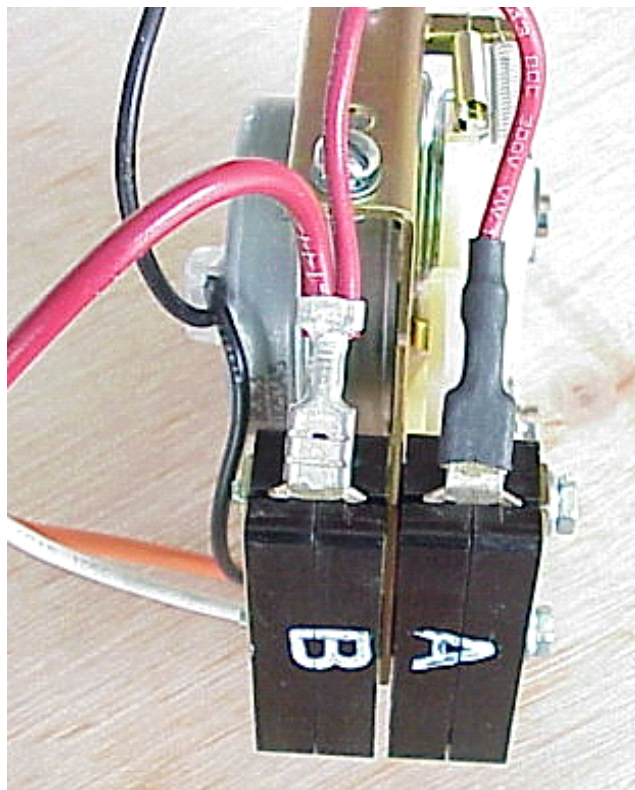


When the dryer is connected to power, power is applied to the input terminals of switches A and B of the timer. The switches contacts which are spring-loaded closed, are opened by pushing down on the switches arm. Switch A controls power to the timer motor, indicator light, thermal limiter, start switch, dryer motor and door switch. Switch B controls power to the fabric selector switch, control thermostat, safety thermostat and the heater source circuit.

The switches are controlled by the switch control cam. When the point of the tooth of the switch cam is engaged with the extrusion of the cam switch arm, the cam switch arm pushes down on the switches arm, and opens switches A and B.



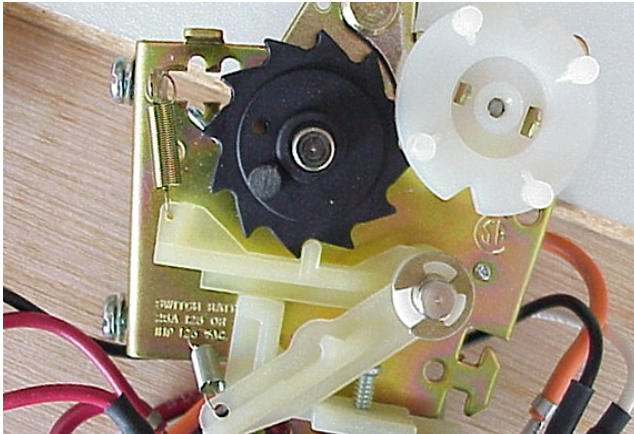
switches A and B.



**Note:** Picture shown with drive cam removed.

When the coin chute is pushed in, the extension on the coin chute depresses the arm of the spring loaded timer escape mechanism. When the coin chute is released the arm of the escape mechanism moves forward and advances the switch cam one increment.

This allows the extrusion of the switch cam arm to be pulled into the cam notch by the switch cam arm spring.

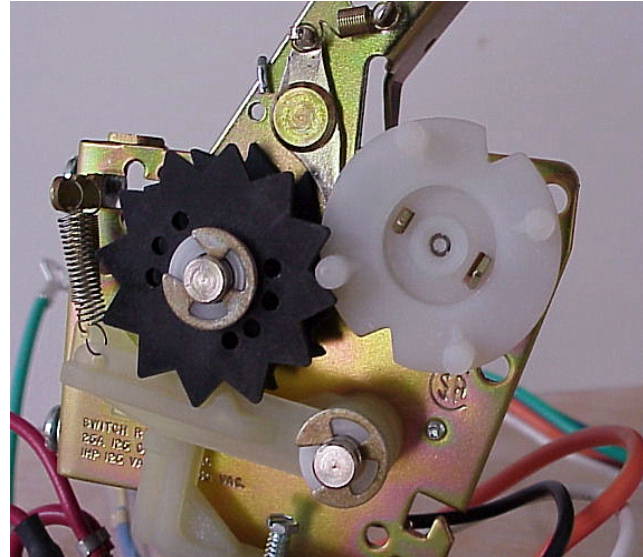


This removes pressure from the switches arm and the contacts of switch A and B close.

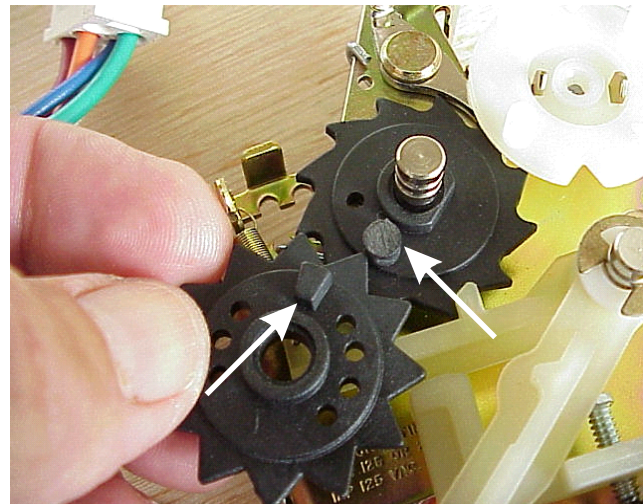
When switch A closes, power is applied to the timer motor and the start switch of the dryer. The timer motor makes one complete revolution in 180 minutes. Attached to the shaft of the timer motor is the timing cam. On the timing cam are pins that determine the amount of time that the dryer will run. To determine the amount of minutes, the dryer will run divide 180 by the number of pins on the timing cam. For example, the timing cam that is supplied with the dryer has four pins, 4 divided into 180 equals 45. The dryer as it comes from the factory has a 45 minute cycle.

As the timing cam slowly turns, the pins on the timing cam rotate towards the drive cam. When a pin on the

timing cam engages into a tooth of the drive cam, it starts to turn the drive cam.



Since the timer escape mechanism moved the switch cam one increment, at this time, the switch cam is one increment ahead of the drive cam. Both the switch cam and the drive cam have pins molded into them.



As the drive cam turns, the pin on the drive cam engages the pin on the switch cam causing the switch cam to start to turn. As the switch cam turns, the switch cam arm is forced down, forcing the switches arm down. About five minutes before the peak of the switch cam tooth is reached, the movement of the arm is sufficient to open switch B and remove power from the heating circuit.

The drive cam continues to turn, the switch cam turns until the peak of the tooth is reached. At this time, switch A opens removing power from the timer motor and the dryer. The timer is now in a position to be restarted by the coin slide.

## Dryer section:

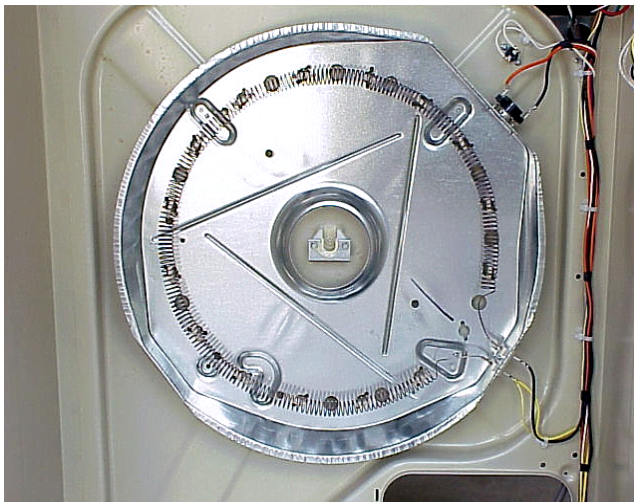
Clothes dryers remove moisture from clothes by pulling air, either warmed or room temperature, through the clothes while they are being tumbled by a turning drum. The moisture from the clothes is exhausted through the dryer vent system to the outside of the building.

The basic components are :

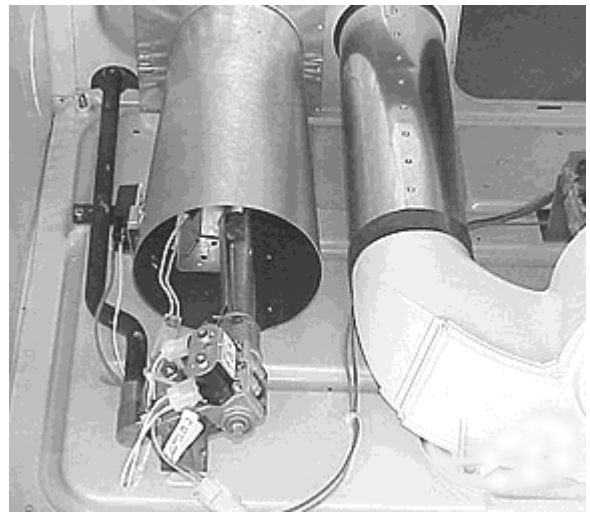
### Drum



### Heat Source

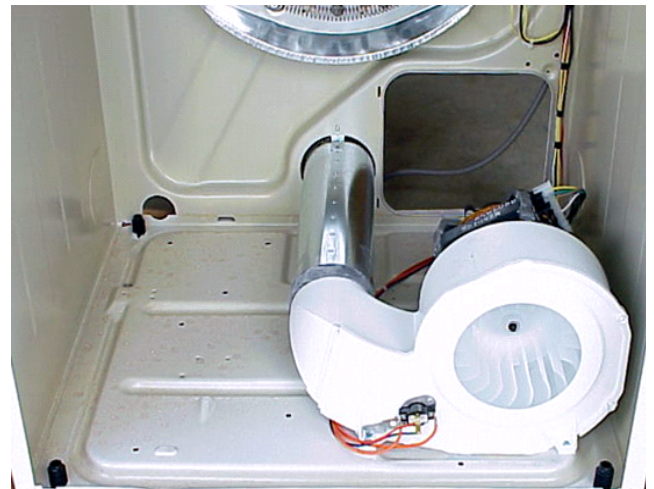


**Electric**

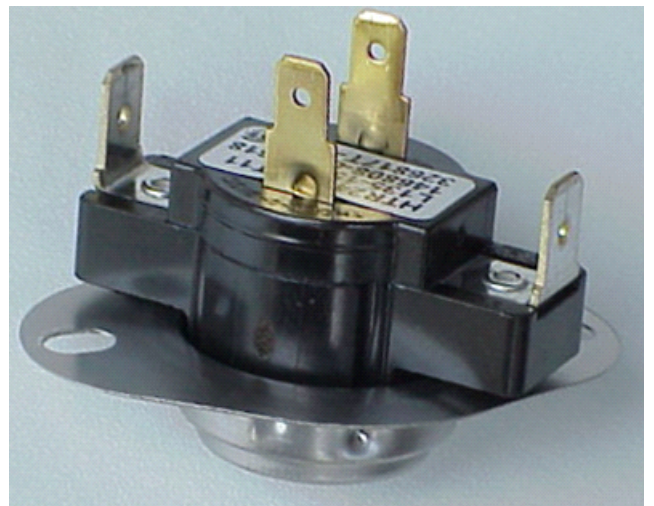


**Gas**

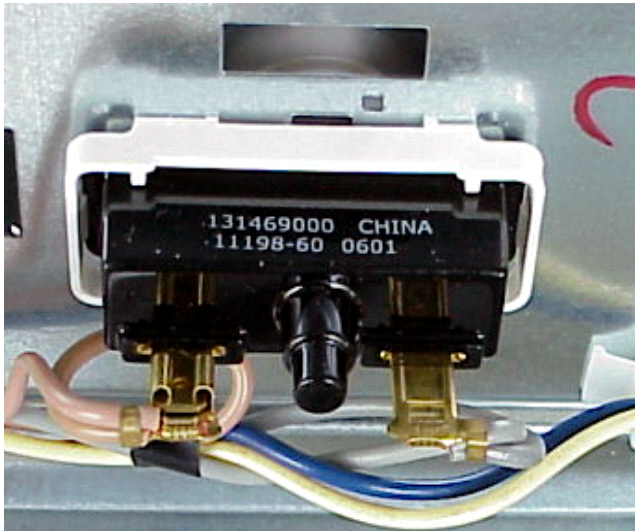
### Drive motor and blower



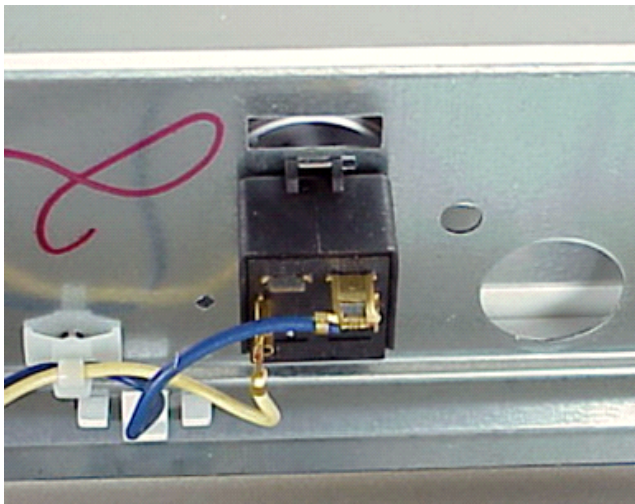
### Control Thermostat



**Start Switch**



**Temperature/Fabric Selector Switch**



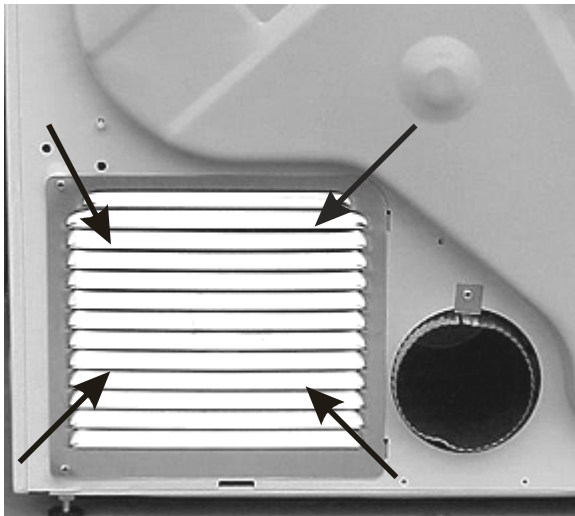


## Airflow

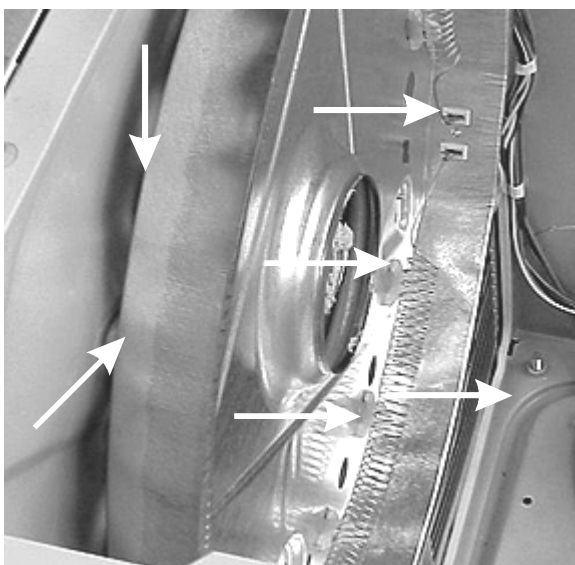
Since the moisture in the clothes is removed by air moving through the drum, it is important to understand the complete air flow system.

### Airflow electric dryers:

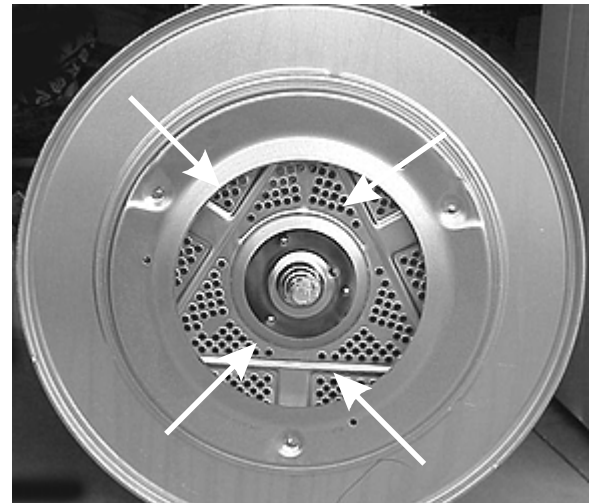
Room air enters the dryer through a louvered panel in the rear right-hand corner of the dryer.



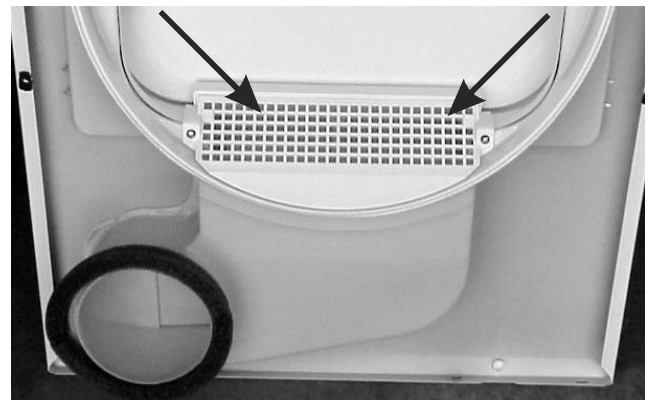
Once inside the dryer cavity the air is drawn between the rear wall of the dryer and the plenum. The holes in the plenum allow the air to be drawn across the heating element. The heating element heats the air as it passes through.



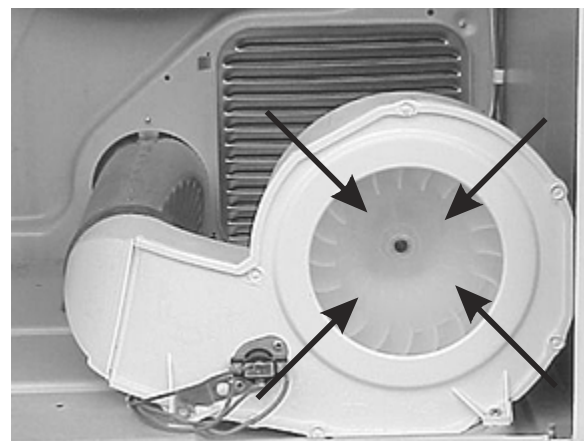
The air then is drawn into the drum through the holes in the rear of the drum.



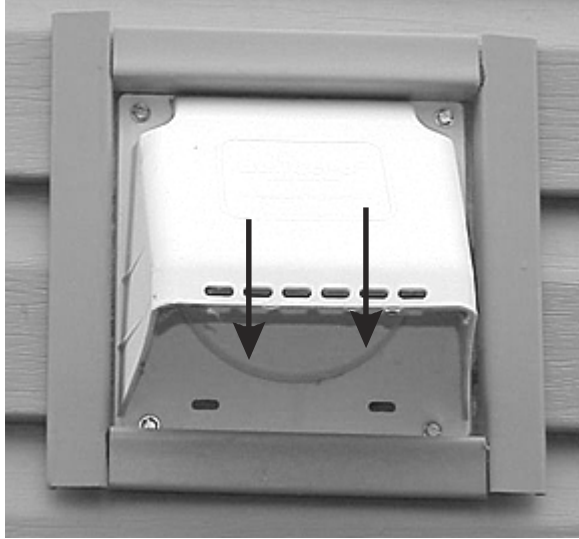
The air passes through the drum picking up moisture and is drawn through the lint filter into the ductwork at the front of the dryer.



The air enters the fan housing and is pushed out the exhaust vent to the outside of the house.



The drum is the same as in the electric dryer, except it does not have a heat baffle on it.

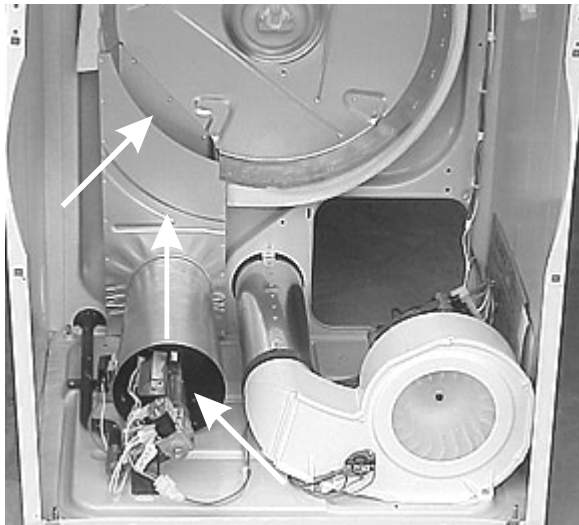


### Airflow gas dryers:

The airflow in gas dryers is similar to electric dryers except for the heat source and the rear of the drum. The air enters the cavity through the louvered opening in the right rear corner of the dryer. The air is pulled across the gas burner, through the burner chamber and is ducted to the rear of the drum.

### Airflow problems:

Airflow problems are usually caused by restrictions, leaks or short unrestricted vents resulting in longer drying times, hotter dryer surfaces and in extreme cases causing the thermal limiter to open on electric dryers.



### Restrictions:

Restrictions can occur any place in the airflow system, but the most common are:

1. Installing the dryer in a small inclosed area; such as a closet without a louvered door that reduces the intake air.
2. Fan problems caused by either a slow running motor, a broken or deformed fan blade or a deformed fan housing.
3. A lint restriction in the lint screen area. The operator may not be cleaning the lint screen before using.
4. A restriction in the exhaust system in the building caused by the design of the vent, such as; the diameter of the vent pipe being too small, too long, too many right angles, or a collapsed or lint restricted vent pipe.

**Note:** Problems caused by the vent pipe in the building are not covered under the product warranty.

**Air leaks:**

Two types of air leaks may occur:

1. Air being drawn in around the door opening, between the drum and the front panel, or around the foam seal between the front duct and the blower housing, replacing some of the air being drawn through the drum and lowers the efficiency of the dryer.

**Note:** An air leak that occurs around the door opening or between the drum and the front panel usually will cause lint to build up on the inner panel of the door.

2. Air being pushed out around the blower housing or vent pipe inside the dryer, allows some of the moisture that has been removed from the clothes to be recirculated.

**Short unrestricted vents:**

The venting system in the dryer is designed to operate under some back pressure. This back pressure is needed to slow the airflow and allow the air to be heated before it passes through the clothes.

**Note:** With short direct vent runs; such as you have when the dryer is installed against an outside wall, use a 2 1/2" vent cap rather than a 4" vent cap.

**Electrical Operation (Electric Dryers Models)**

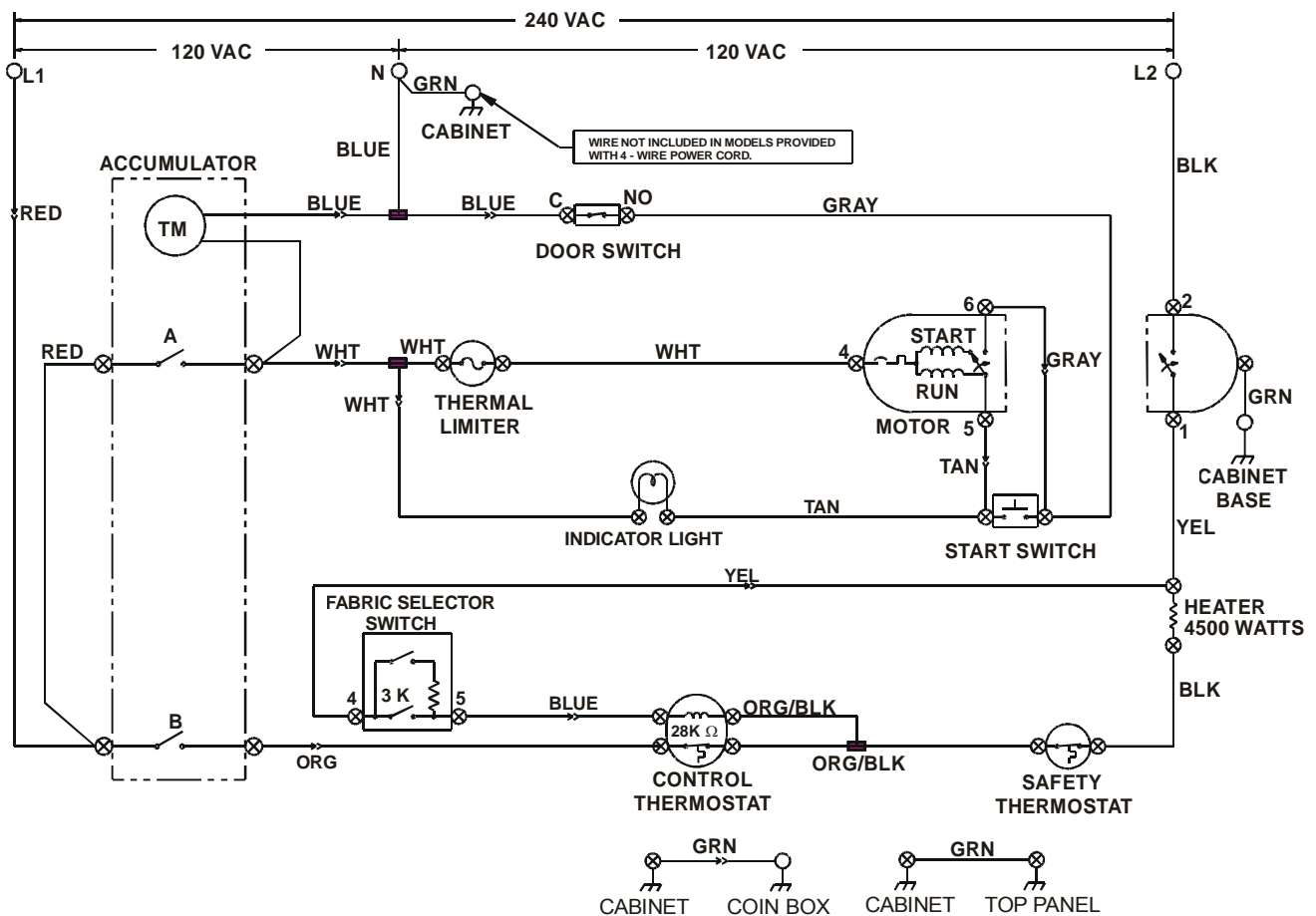
**Note:** Always refer to the wiring diagram or schematic with the product.

When the dryer is connected to electrical power, line 1 is connected to switches A and B of the accumulator (timer). Line 2 is connected to the second centrifugal switch of the drive motor.

**Accumulator (Timer) Circuits:**

Line 1 is applied to switches A and B of the accumulator. When a coin slide is pushed in and released, the accumulator closes the contacts of switches A and B. The contacts of switch A remain closed for the complete cycle. The contacts of switch B open about five minutes before the end of the cycle to allow the dryer to cool down. With the contacts of switch A closed, power is applied to the timer motor, thermal limiter, indicator light and drive motor. Since the other wire to the timer motor

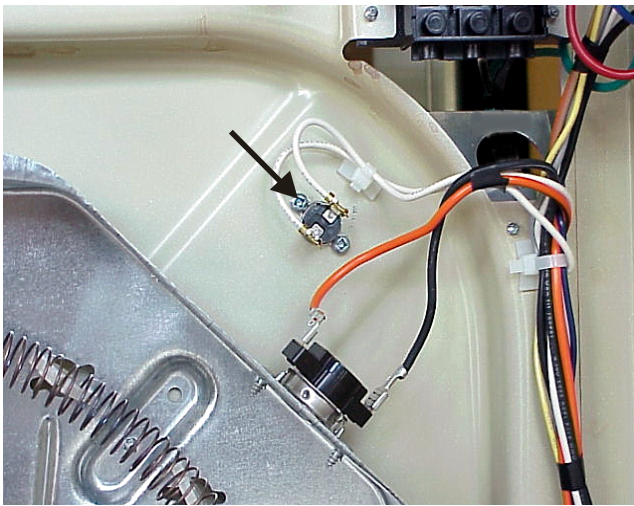
**SAMPLE WIRING DIAGRAM**



is connected to neutral, the timer motor starts running immediately. The thermal limiter/motor circuit and the indicator light are connected to the start switch that is connected to neutral through the door switch. When the contacts of switch B close, power is applied to the control thermostat/fabric selector switch circuit and the control thermostat/safety thermostat/heater circuit. These two circuits are connected to line 2 through the second centrifugal switch of the drive motor.

### Drive Motor Circuit:

When the contacts of switch A close, line 1 is applied through the thermal limiter (a non-resettable fuse mounted on the rear wall of the dryer) to terminal M4 of the drive motor.



Terminal M4 is connected inside the motor to one side of the thermal overload (The thermal overload protects the motor from being damaged by overheating.) The other side of the thermal overload is connected to one end of both the run winding and the start winding of the drive motor. When the motor is not turning, the other end of the start winding is connected internally to terminal M5 of the motor through the NC contact of the motor centrifugal switch. The other end of the run winding is also connected internally to terminal M5 which is connected to the start switch. The other side of the start switch is connected to neutral through the door switch. When the contacts of the start switch are closed (with the door closed), the drive motor circuit is completed.

When the motor is not turning, the start winding and the run winding are connected in parallel. When the contacts of the start switch are closed, by pushing in on the start button, with the dryer door shut, line 1 and neutral voltage

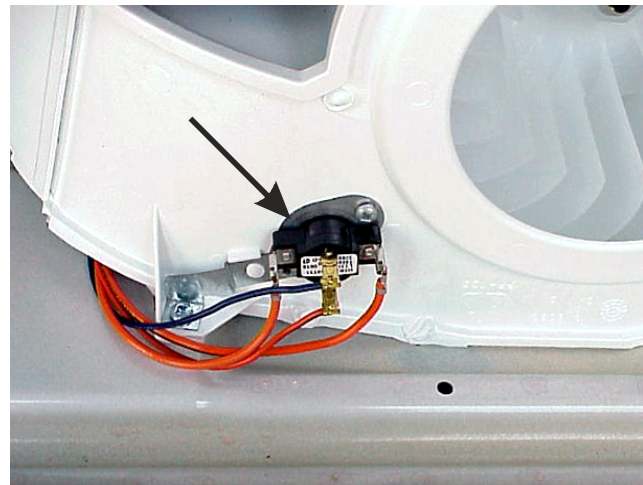
are applied across both the start and run windings of the drive motor. With power applied to both the start and run windings, the motor starts to turn.

When the speed of the motor reaches about 80% of its normal run speed, the contacts of the centrifugal switch remove power from the start winding and connect the run winding to neutral through terminal M 6 and the door switch.

The drive motor performs two tasks in the dryer. A pulley, attached to one end of the motor shaft, uses a belt to drive the dryer drum. The blower wheel is attached to the other end of the motor shaft to pull the air through the clothes and force it out the exhaust vent.

### Control Thermostat/Fabric Selector Switch Circuit:

The temperature in the dryer is controlled by the control thermostat and fabric selector switch. The control thermostat, mounted in the blower fan housing, is a bimetal switch that cycles the heating element. Built into the control thermostat is a heater that is used in conjunction with the fabric selector switch to lower the temperature in the dryer.

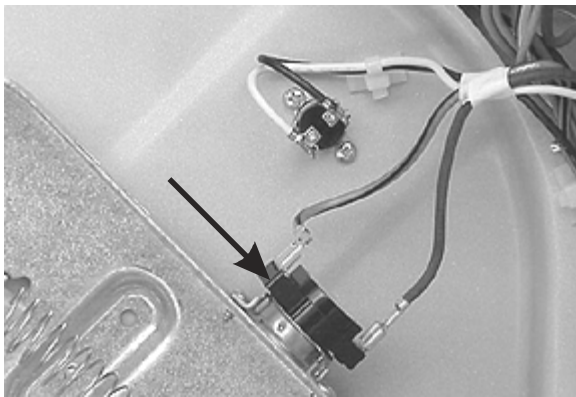


When the fabric selector switch is set to the high heat position, the control thermostat cycles the heating element by sensing the temperature in the blower housing. When the fabric selector switch is set to the medium heat position, the top set of contacts in the selector switch close, forming a series circuit with the heater in the control thermostat and a 3000 Ohm resistor on the selector switch. This applies line to line voltage to the control thermostat heater and the resistor causing the thermostat heater to apply heat to the thermostat contacts. The contacts of the control thermostat now cycle from the heat in the blower housing and the heat from the control thermostat heater. This lowers the operating temperature in the dryer drum. When the fabric

selector switch is set to the low heat position, the lower set of contacts of the fabric selector switch are closed. This applies line to line voltage to the heater in the control thermostat. Without the resistor in the circuit, the current flowing through the heater is higher producing more heat. The control thermostat now cycles on the heat in the blower housing and the increased heat of the control thermostat heater. This lowers the operating temperature in the dryer drum.

**The Heating Circuit:**

Switch B applies line 1 power through the contacts of the control thermostat to the normally close contacts of the safety thermostat that is mounted on the heating element assembly.



The safety thermostat is a safety device that prevents the dryer from overheating if the contacts of the control thermostat fail closed. The contacts of the safety thermostat, normally closed, are set to open at a temperature above the upper limits of the control thermostat. From the output terminal of the safety thermostat, line 1 is connected to one side of the element. The other side of the heating element is connected to line 2 through the contacts of the second centrifugal switch in the drive motor. This switch prevents power from being applied to the element if the motor is not running.

**Drying Time:**

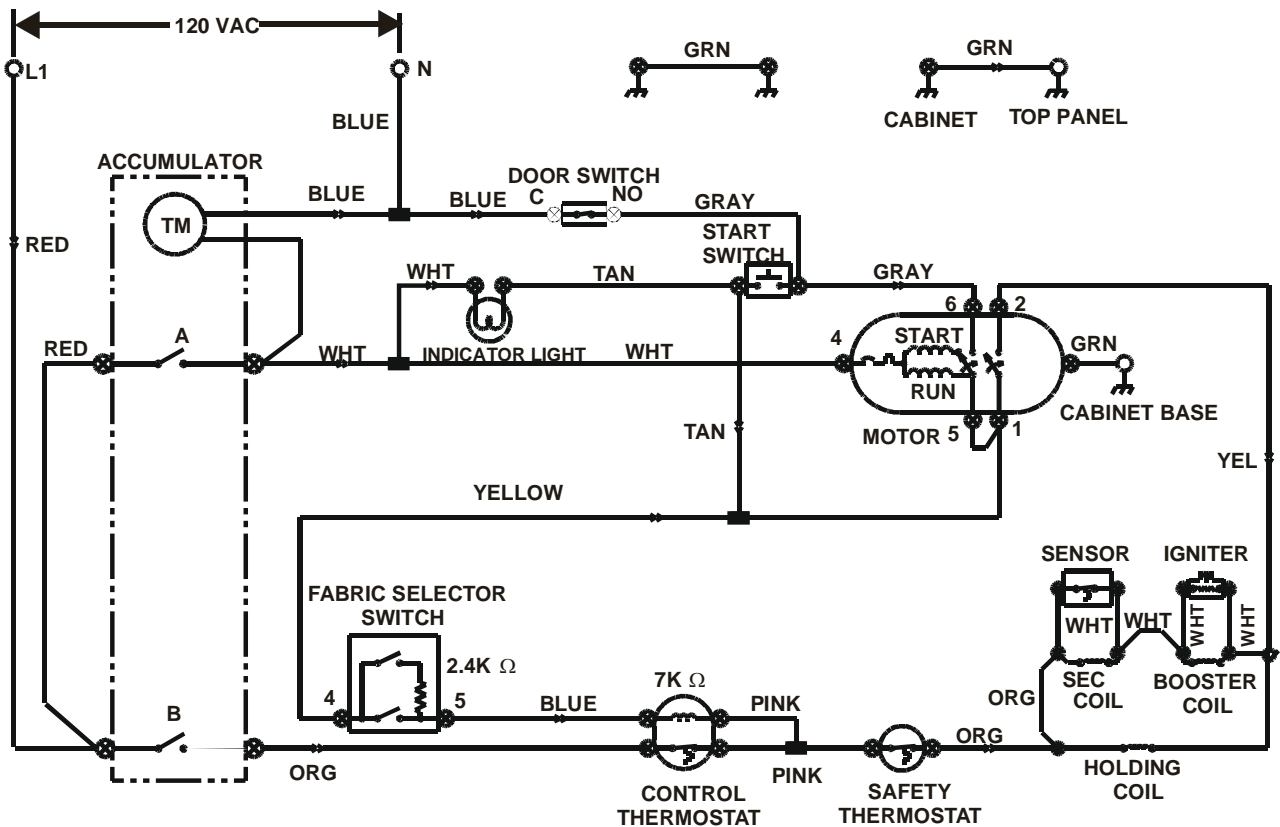
The amount of drying time is determined by the timing cam of the accumulator (timer) and can be varied from 180 minutes to 15 minutes by replacing the timing cam.

**Electrical Operation (Gas Dryers Models)**

Note: Always refer to the wiring diagram or schematic with the product.

When the dryer is connected to electrical power, line 1 is connected to switches A and B of the accumulator (timer). Neutral is connected to the timer motor and the door switch.

**SAMPLE WIRING DIAGRAM**



### Accumulator (Timer) Circuits:

Line 1 is applied to switches A and B of the accumulator. When a coin slide is pushed in and released, the accumulator closes the contacts of switches A and B. The contacts of switch A remain closed for the complete cycle. The contacts of switch B open about five minutes before the end of the cycle to allow the dryer to cool down. With the contacts of switch A closed, power is applied to the timer motor, indicator light and drive motor. Since the other wire to the timer motor is connected to neutral, the timer motor starts running immediately. The motor circuit and the indicator light are connected to the start switch which is connected to neutral through the door switch. When the contacts of switch B close, power is applied to the control thermostat/fabrics selector switch circuit, and the control thermostat/safety thermostat/gas valve circuit. These two circuits are connected to neutral through the drive motor centrifugal switches and the door switch.

### Drive Motor Circuit:

When the contacts of switch A close, line 1 is applied to terminal M4 of the drive motor. Terminal M4 is connected inside the motor to one side of the thermal overload (The thermal overload protects the motor from being damaged by overheating.) The other side of the thermal overload is connected to one end of both the run winding and the start winding of the drive motor. When the motor is not turning, the other end of the start winding is connected internally to terminal M5 of the motor through the NC contact of the motor centrifugal switch. The other end of the run winding is also connected internally to terminal M5 which is connected to the start switch.

When the motor is not turning, the start winding and the run winding are connected in parallel. When the start button is pushed and the contacts of start switch close, with the dryer door closed, line 1 and neutral voltage are applied across both the start and run windings of the drive motor.

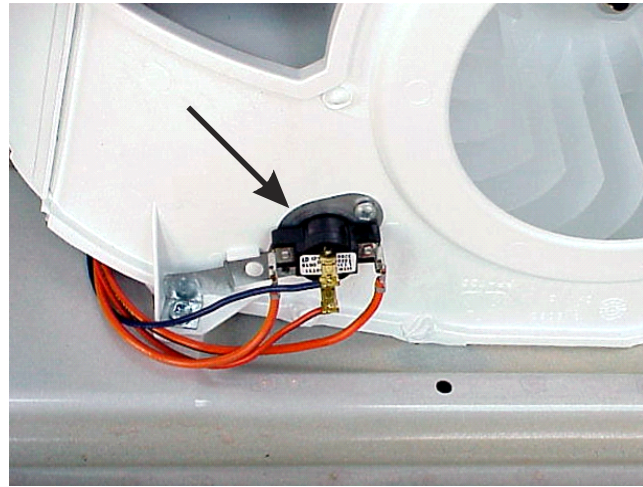
With power applied to both the start and run windings, the motor starts to turn. When the speed of the motor reaches about 80% of its normal run speed, the contacts of the centrifugal switch remove power from the start winding and connect the run winding to neutral through terminal M6 of the motor.

The drive motor performs two tasks in the dryer. A pulley, attached to one end of the motor shaft, uses a belt to drive the dryer drum. The blower wheel, attached to the other end of the motor shaft, pulls the air through the clothes and forces it out the exhaust vent.

### Control Thermostat/Fabric Selector Switch Circuit:

The temperature in the dryer is controlled by the control

thermostat and fabric selector switch. The control thermostat, mounted in the blower fan housing, is a bimetal switch that cycles the gas valve. Built into the control thermostat is a heater that is used in conjunction with the fabric selector switch to lower the temperature in the dryer.



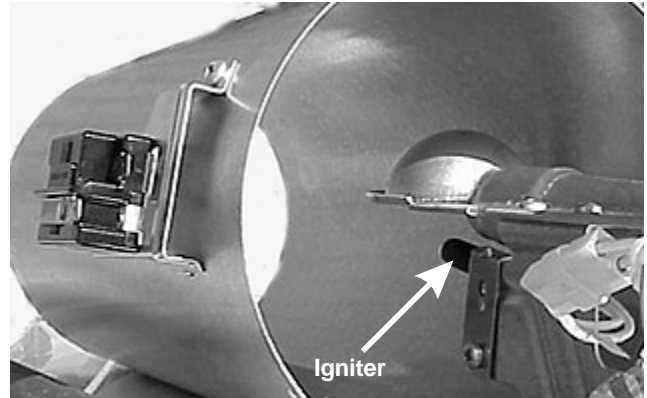
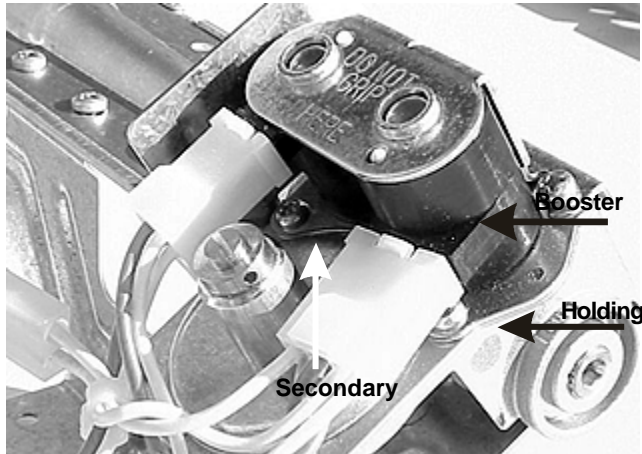
When the fabric selector switch is set to the high heat position, the control thermostat cycles the gas valve by sensing the temperature in the blower housing. When the fabric selector switch is set to the medium heat position, the top set of contacts in the selector switch close forming a series circuit with the heater in the control thermostat and a 2400 Ohm resistor in the selector switch. This applies line to neutral voltage to the control thermostat heater and the resistor causing the thermostat heater to apply heat to the thermostat contacts. The contacts of the control thermostat are now cycle from the heat in the blower housing and the control thermostat heater. This lowers the operating temperature in the dryer drum. When the fabric selector switch is set to the low heat position, the lower set of contacts of the fabric selector switch are closed. This applies line to neutral voltage to the heater in the control thermostat. Without the resistor in the circuit, the current flow through the heater is higher producing more heat. The control thermostat now cycles on the heat in the blower housing and the increased heat of the controlled thermostat heater. This lowers the operating temperature in the dryer drum.

### The Heating Circuit:

The contacts of switch B applies power to the heating circuit through the contacts of control thermostat. When the contacts of the control thermostat are closed, line 1 is applied to the safety thermostat. The safety thermostat is a safety device that prevents the dryer from overheating if the contacts of the control thermostat fail closed. The contacts of the safety thermostat, normally closed, are set to open at a temperature above the upper limits of the control thermostat. From the output terminal of the

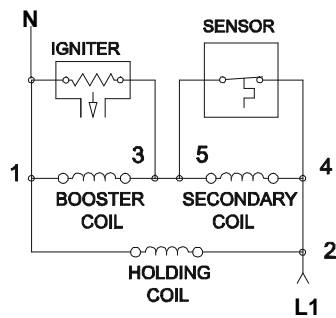
safety thermostat, line 1 is connected to one side of the holding coil of the gas valve, the secondary coil of the gas valve and the sensor mounted on the burner chamber.

The holding coil, secondary coil, booster coil, sensor and igniter circuits interact with one another to assure safe operation of the dryer gas burner.



It is necessary to raise the temperature above 1100° F to ignite gas. As current flows through the igniter, the temperature of igniter raises from room temperature to approximately 1800° F within 30 seconds. The contacts of the sensor are heat sensitive and set to open above the ignition temperature of gas. When the sensor contacts open, current flows through the secondary coil opening the second chamber and allowing gas to the burner which is then ignited by the heat of the igniter. When the contacts of the sensor are open, the parallel circuit formed by the igniter and the booster coil are in series with the secondary coil which lowers the current flow through the igniter and booster coil. Since it takes less magnetic force to hold a solenoid open than it does to open it, the first solenoid remains open when the current through the booster coil is reduced. The reduction of current flow through the igniter reduces heat from the igniter but the sensor contacts are held open by the heat of the burner flame.

The gas valve has two chambers in series; both must be opened before gas will flow into the burner. The solenoid that controls the gas flow through the first chamber has two coils: the booster coil and the holding coil. The solenoid that controls the second chamber has one coil, the secondary coil.



The other side of the holding coil, booster coil and igniter are connected to neutral through the centrifugal switches in the motor (closed when the motor is running). When power is applied across these circuits, current flows through the holding coil, but the holding coil does not have enough magnetic force to open the solenoid by itself. At the same time, current flows through sensor contacts providing power to the booster coil and the igniter. When current flows through both the holding and booster coils, the first chamber opens. The contacts of the sensor are in parallel with the secondary coil. As long as the contacts of the sensor remain closed, current flow bypasses the secondary coil and gas is prevented from flowing through the second chamber of the valve to the burner.

### Drying Time:

The amount of drying time is determined by the timing cam of the accumulator (timer), and can be varied from 180 minutes to 15 minutes by replacing the timing cam.

## SECTION C - TROUBLESHOOTING

FAILURE	CHECK	CORRECTION
Coin slide will not push in.	1. Are there any coins jammed in the coins slide?	Yes, remove the coins. No, go to step 2.
	2. Disassemble the coin chute and inspect the slide ratchet dogs, the slide ratchet spring and the ratchet.	Replace defective parts as needed.
Coin slide will not push in all the way.	1. Disassemble the coin chute and inspect the blocking keys, stop slide dogs, coined sizing block, and gate.	Replace defective parts as needed.
Dryer are will not start.	1. Is the dryer plugged in?	Yes, go to step 2. No, plug the dryer in.
	2. Is the loading door closed?	Yes, go to step 3. No, close the door.
	3. When the start button is pushed does the indicator light glow?	Yes, (electric dryer) defective thermal limiter or drive motor, (gas dryer) defective drive motor. No, go to step 4.
	4. Visually inspect the switches of the accumulator. Is the arm up or down?	The arm is up, defective switch A, start switch, or door switch. The arm is down, go to step 5.
	5. Push the coin chute and release it. Does the arm of the coin chute engage the arm of the accumulator?	Yes, defective accumulator. No, defective coin chute.
Dryer runs, but indicator light does not glow.		Defective indicator light.
Dryer does not shut off at the end of the cycle.	1. Does the timing cam move?	Yes, go to step 2. No, defective timer motor.
	2. Visually inspect the switches of the accumulator. Is the arm up or down?	The arm is down, defective switch A. The arm is up, defective switch cam.

**Note:** Always check for defective wiring between the components before condemning any component.



FAILURE	CHECK	CORRECTION
Dryer runs as long as the start switch is held in.		Defective centrifugal switch in the drive motor, replace the drive motor.
Drive motor runs, but dryer does not heat. (electric dryer)	1. Disconnects power from the dryer, raise the main top, reconnect power, start the dryer and with the motor running open the dryer door. Measure the voltage drop between the terminal on the safety thermostat with the orange and black wire and neutral.	If the meter reads zero, go to step 2.  If the meter reads line to neutral voltage, go to step. 3.
	2. Disconnect power from the dryer and remove the front panel. Remove one wire from the control thermostat and check the resistance between the terminals of the control thermostat.	If the meter reads zero, switch B of the accumulator is defective.  If the meter reads infinity, the control thermostat is defective.
	3. Close the dryer door and measure the voltage drop between the terminals on the safety thermostat.	If the meter reads line to line voltage, the safety thermostat is defective.  If the meter reads zero, go to step 4.
	4. Disconnect power from the dryer, disconnect the yellow wire from terminal 4 of the fabric selector switch. Measure the resistance between the yellow wire and a terminal on the safety thermostat.	If the meter reads about 13 Ohms, the centrifugal switch in the drive motor is defective. Replace the drive motor.  If the meter reads infinity, the heating element is open.
The dryer operates on high heat when the fabric selector switch is set to medium or low.	1. Disconnect power from the dryer and disconnect one wire from the fabric selector switch. Set the fabric selector switch to low and measure the resistance between the two terminals on the fabric selector switch.	If the meter reads infinity, the fabric selector switch is defective.  If the meter reads zero, the control thermostat is defective.
The drive motor runs, but the drum does not turn.		Drive belt broken.
The dryer overheats.	1. Is the vent restricted?	Yes, remove the restriction.  No, replaced the control thermostat.

**Note:** Always check for defective wiring between the components before condemning any component.

FAILURE	CHECK	CORRECTION
Drive motor runs, but dryer does not heat. (gas dryer)	1. Is the gas turned on?	Yes, go to step 2. No, turn the gas on.
	2. Disconnects power from the dryer, raise the main top, reconnect power, set the fabric selector switch to high and start the dryer. Measure the voltage drop between terminal 5 (the terminal with the blue wire on it) of the fabric selector switch and neutral.	If the meter read zero, go to step 3 If the meter reads line to neutral, go to step 4.
	3. Disconnect power and remove the accumulator. Measure the resistance between the terminals of switch B.	If the meter read zero, the control thermostat defective. If the meter reads infinity, switch B is defective.
	4. Disconnect power from the dryer, turn the gas off to the dryer, disconnect the belt from the motor, and remove the front panel. Set the fabric selector switch to high and observe the igniter for one minute.	If the igniter glows full brilliance or glows dim, the full minute, defective sensor. If the igniter close full brilliance then dims, defective gas valve or gas supply. If the igniter does not glow, go to step 5.
	5. Measure the voltage drop from the terminal on the sensor with orange wire to neutral.	If the meter reads zero, defective safety thermostat. If the meter reads line to neutral voltage, go to step 6.
	6. Remove power, unplug the igniter and measure the resistance of the igniter.	If the meter reads infinity, they igniter is defective. If the meter reads between 50 and 400 ohms, the drive motor is defective.

**Note:** Always check for defective wiring between the components before condemning any component.

## SECTION D - TEARDOWN

This section will describe how to remove components from both gas and electric dryers. Unless stated, the procedure will be the same on all dryers. Unless stated, reverse the procedure to reinstall the component.

**⚠ WARNING** Always remove electrical power from the dryer when working in an area where electrical power is present.

**⚠ WARNING** Always turn the gas off to the dryer before opening any gas piping.

**Note:** Unless called out all screws can be removed with a #2 square bit or a Phillips screwdriver.

### Removing the meter case mechanism cover:

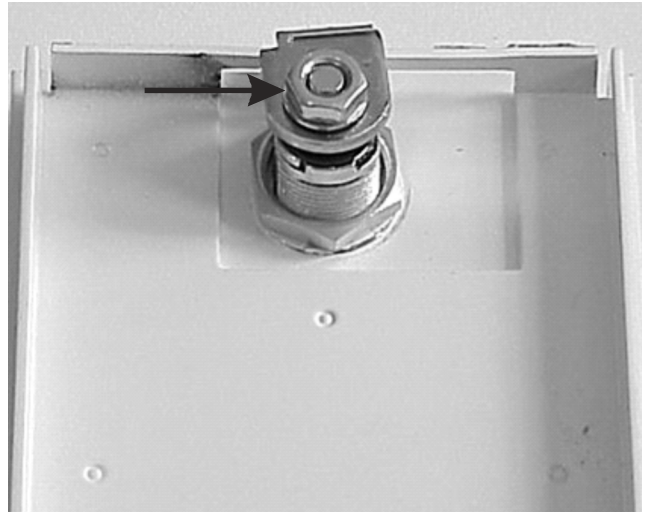
1. Unlock the cover with the key, open the cover and lift the cover out.



### Removing the meter case mechanism cover latch:

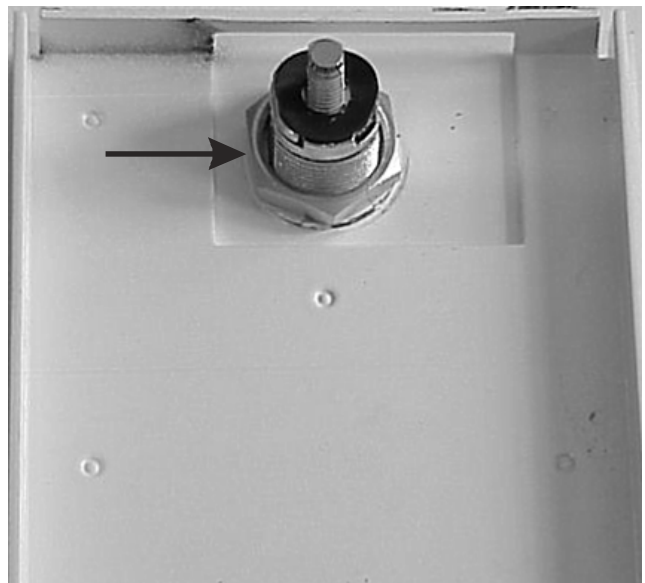
1. Remove the meter case mechanism cover.

2. Using a 15/32" socket, remove the nut holding the latch to the locking mechanism. Remove the washer and lift the latch off.



### Removing the meter case mechanism cover locking mechanism:

1. Remove the meter case mechanism cover and the latch.
2. Using a 7/8" wrench remove the locking nut and lift the locking mechanism out.

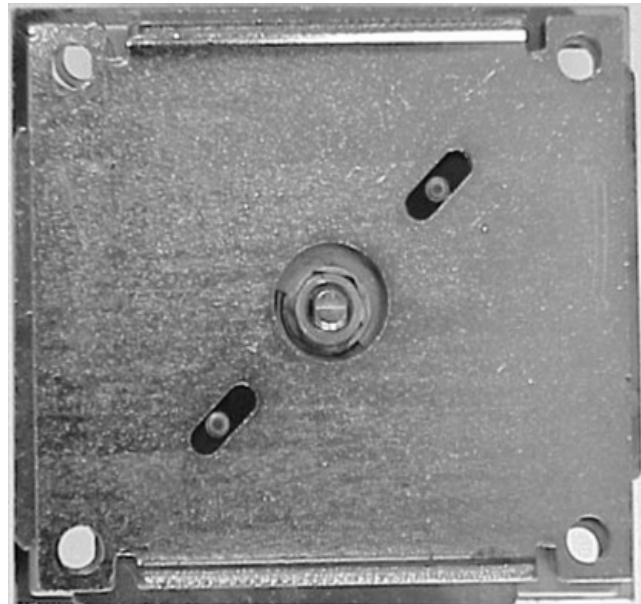


## Removing the coin drawer:

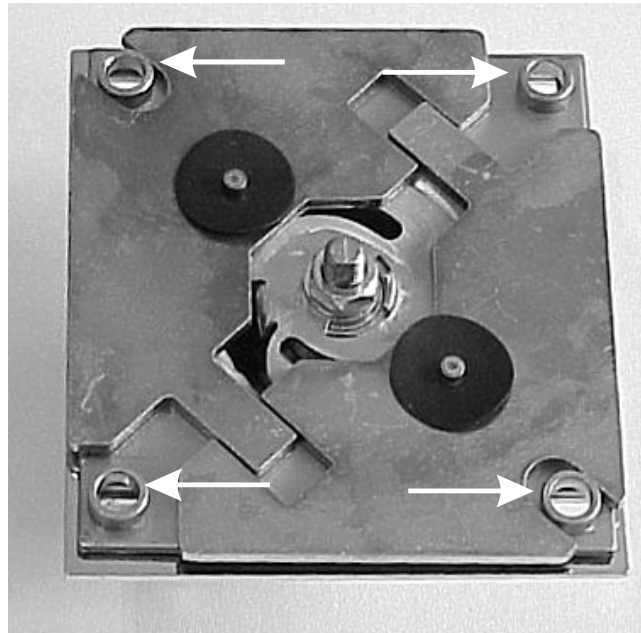
1. Unlock the drawer with the key and slide the drawer out the front.



3. Lift the cover plate off.

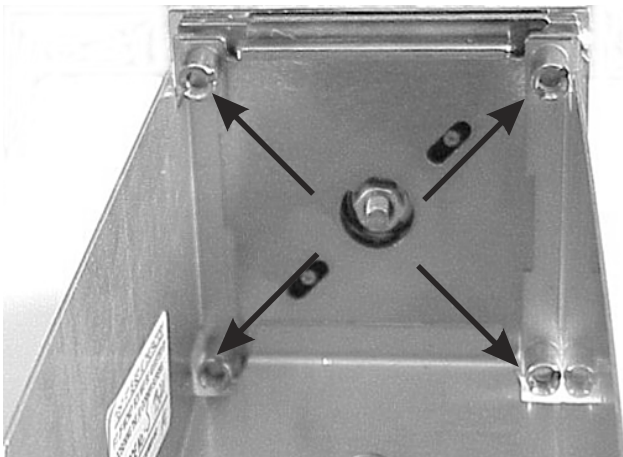


4. Remove the (4) spacers.

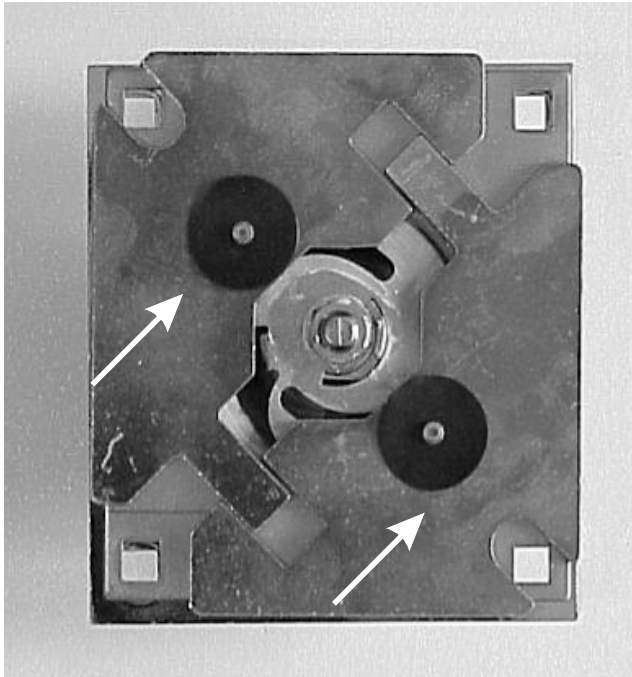


## Removing the coin drawer face and locking mechanism:

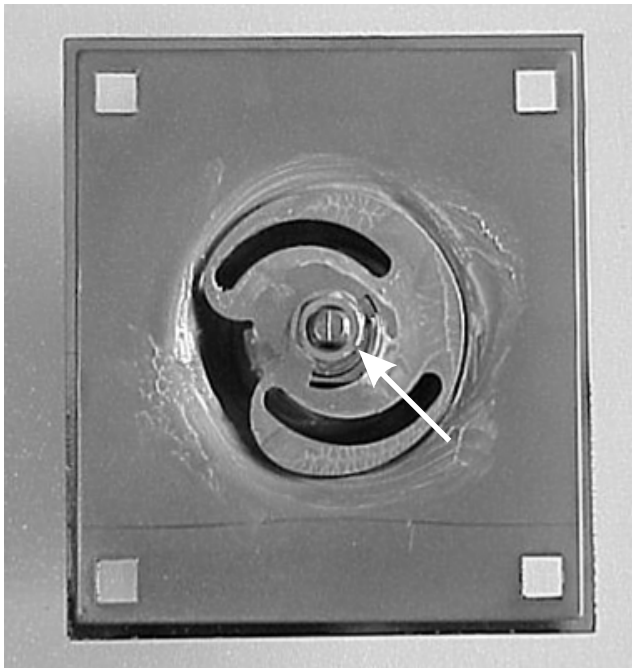
1. Remove the drawer from the washer.
2. Using a common screwdriver, with a long shaft, remove the (4) slotted cylinder nuts holding the face to the drawer and lift the face off. (be careful not to lose the four spacers)



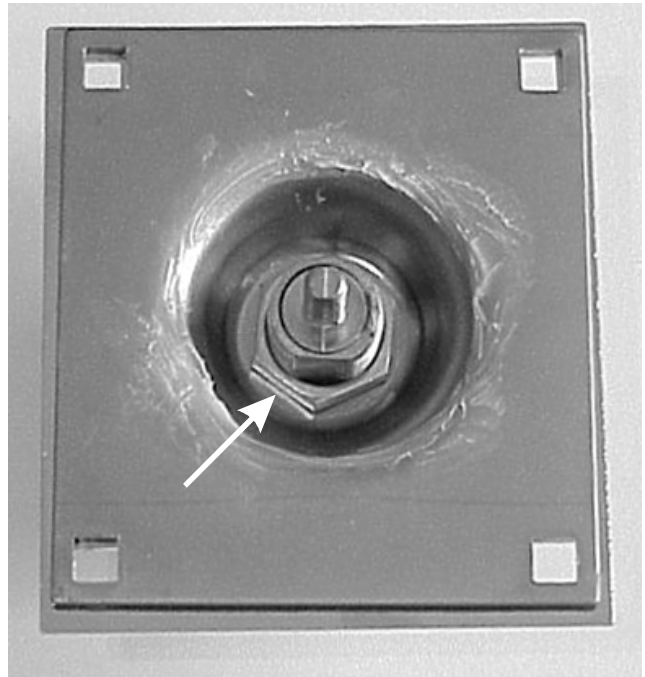
5. Lift the (2) locking plates off.



6. Using a 7/16" socket remove the nut holding the expansion plate to the lock assembly and lift the plate off.

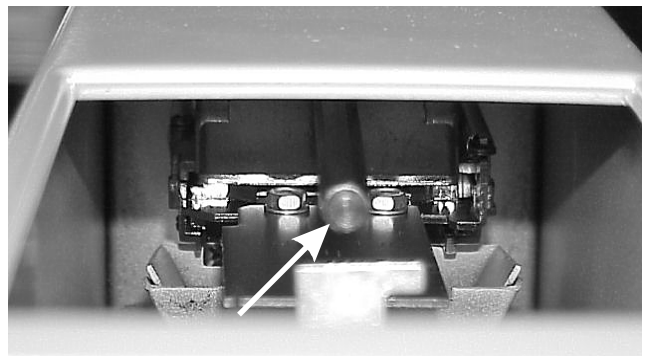


7. Using a 7/8" socket remove the locking nut holding the lock mechanism to the front face and pull lock mechanism out the front.



### Removing the coin chute:

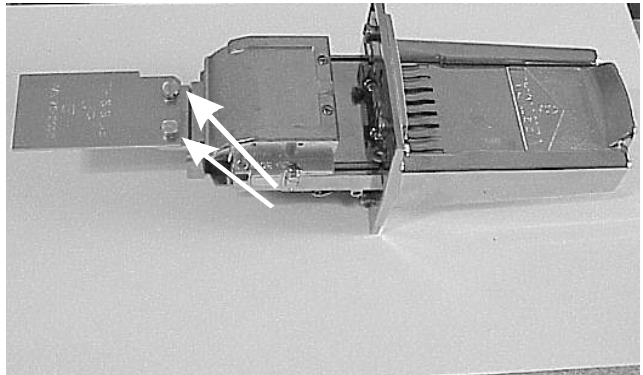
1. Disconnect power from the washer and remove the meter case mechanism cover.
2. Using a 5/16" socket remove the locking rod that holds the coin chute to the coin box.



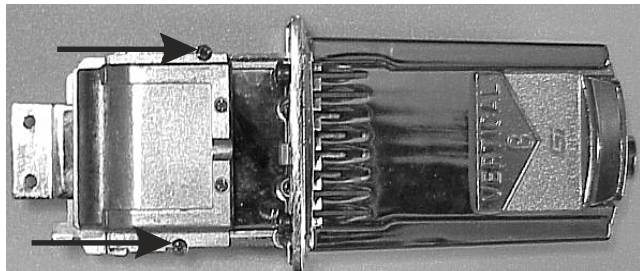
3. Lift up on the coin chute and pull it out the front.



3. To remove the extension bar, use a 3/8" nut driver and remove the (2) screws.

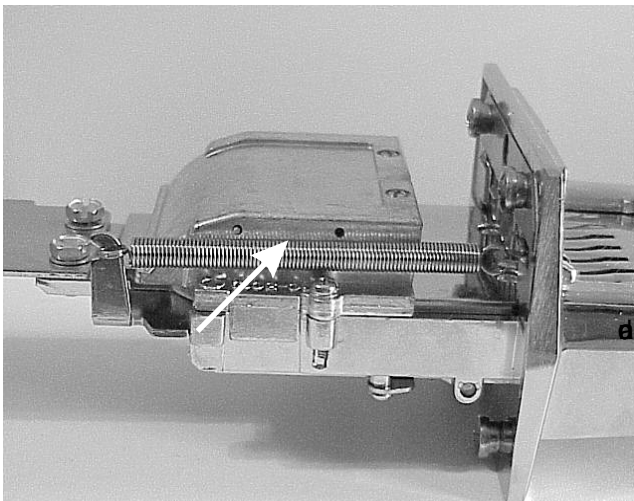


4. To remove the top housing, remove the (2) Phillips head screws one on each side and lift the housing off.

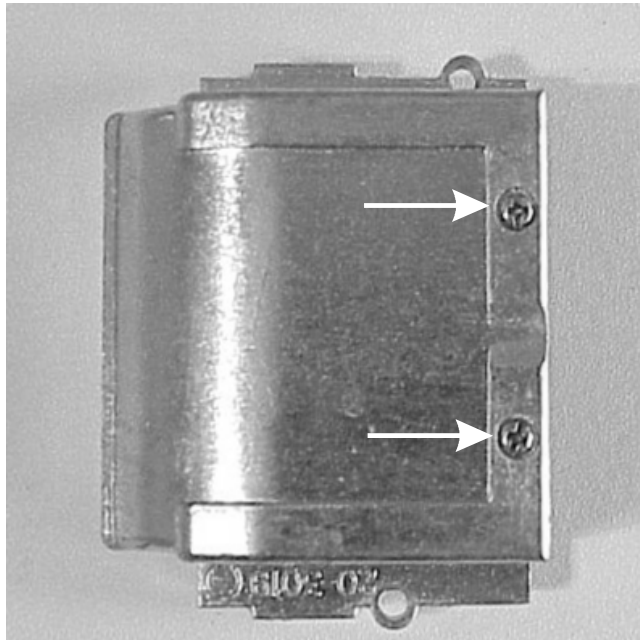


### Disassembling the coin chute:

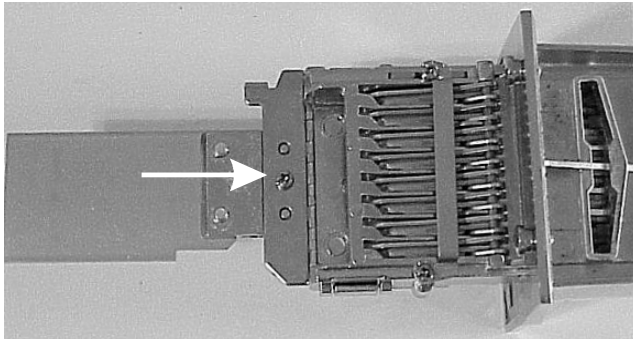
1. Remove the coin chute from the coin box.
2. Disconnect the slide return spring.



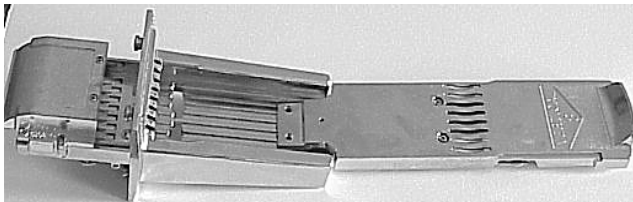
5. To remove the coin sizing block, remove the top housing then remove the (2) Philips head screws holding the coin sizing block to the top housing.



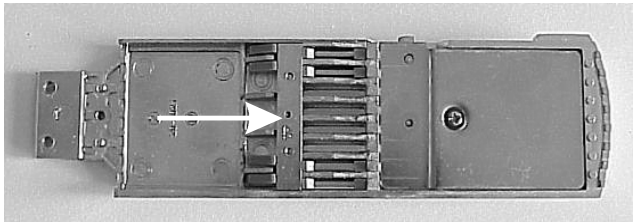
- To remove the slide stop, disconnect the slide return spring and remove the Phillips head screw holding the slide stop to the coin slide.



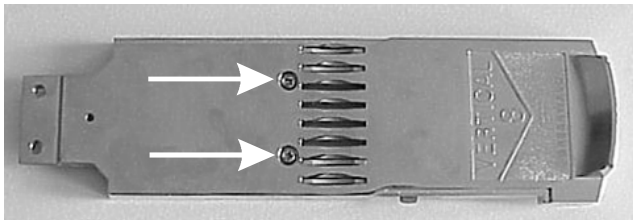
- To remove the coin slide, disconnect the return spring, remove the extension bar, slide stop and slide the coin slide out the front.



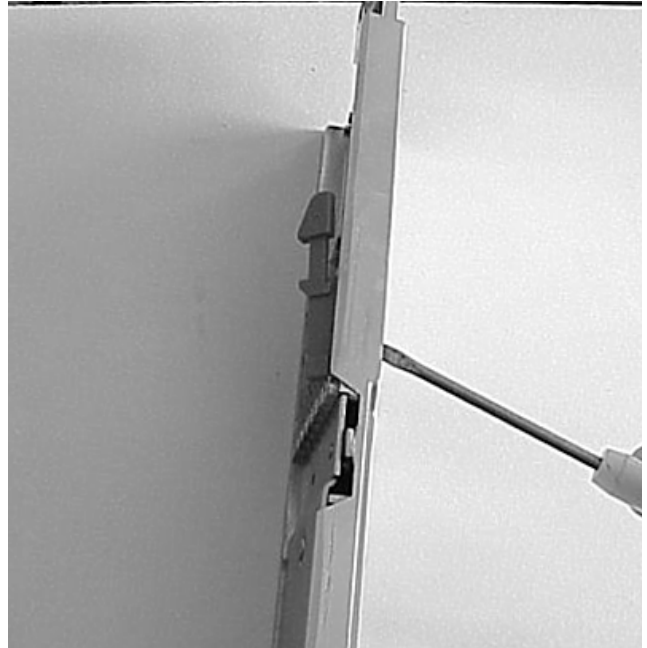
- To remove the dog post ratchet,



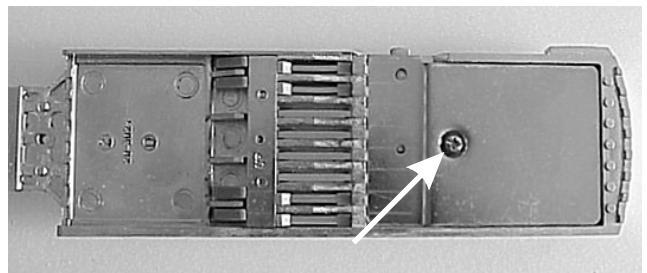
remove the coin slide and the (2) Phillips head screws holding the dog post ratchet to the bottom of the coin slide and lifted it off.



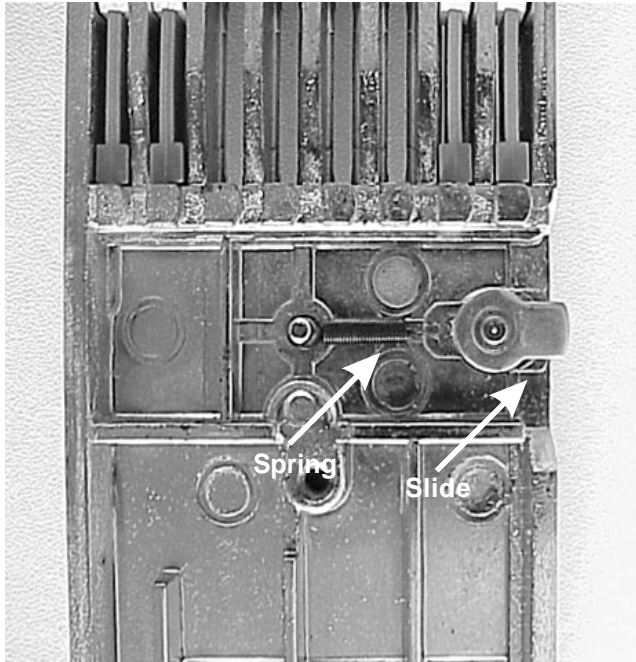
- To remove the blockout keys, remove the dog post ratchet and push the blockout keys out of the bottom.



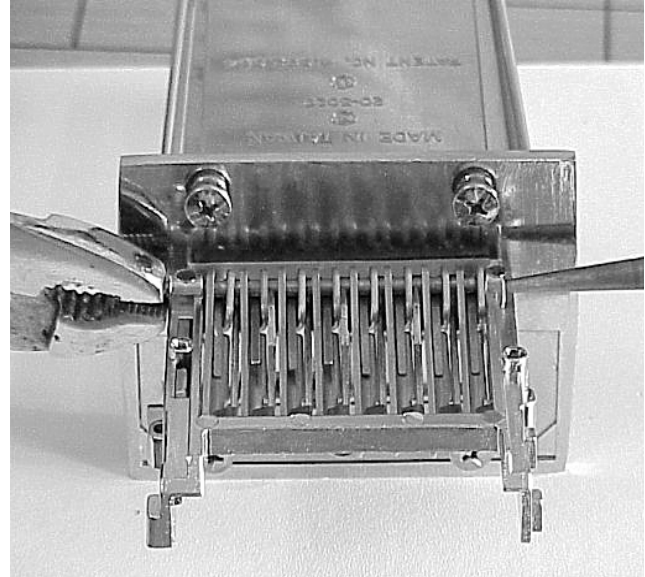
- To remove the ratchet dog cover, remove the coin slide. Turn the coin slide over and remove the Phillips head screw holding the cover to the coin slide.



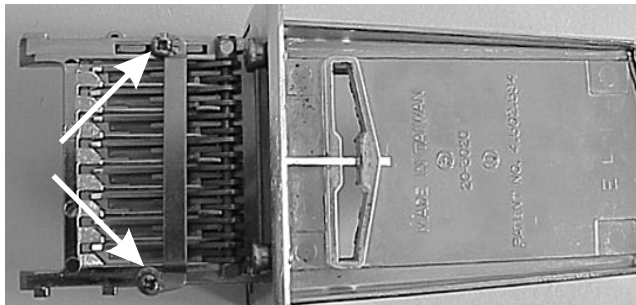
11. To remove the ratchet dog slide and ratchet dog slide spring, remove the ratchet dog cover and lift the slide and the spring out.



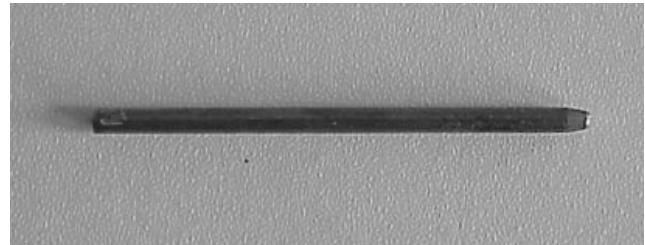
13. To remove the dog shaft, remove top housing, spring protector, and use a small rod or a nail punch to tap the shaft until it moves far enough out that pliers can grip it. Pull the shaft the rest of the way out with the pliers.



12. To remove the spring protector, turn the coin slide body over and remove the (2) Phillips head screws holding the protector to the body.

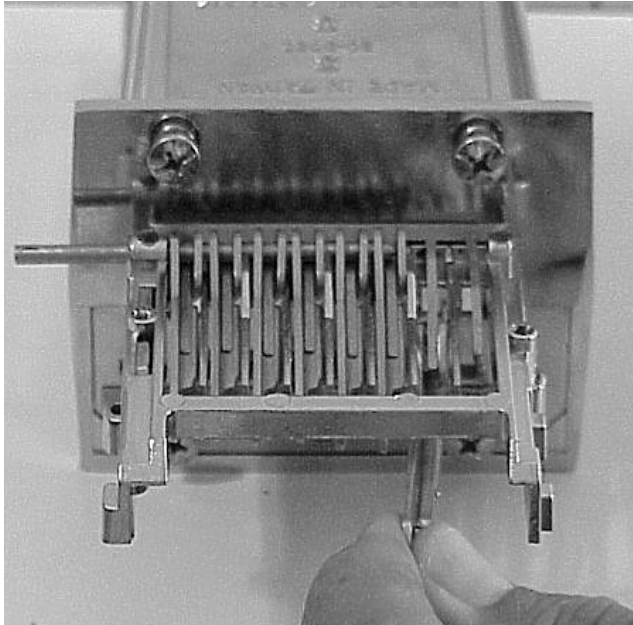


**Note:** The shaft is tapered on one end. When removing the shaft, tap the tapered end. When reinstalling the shaft, put the tapered end in first.

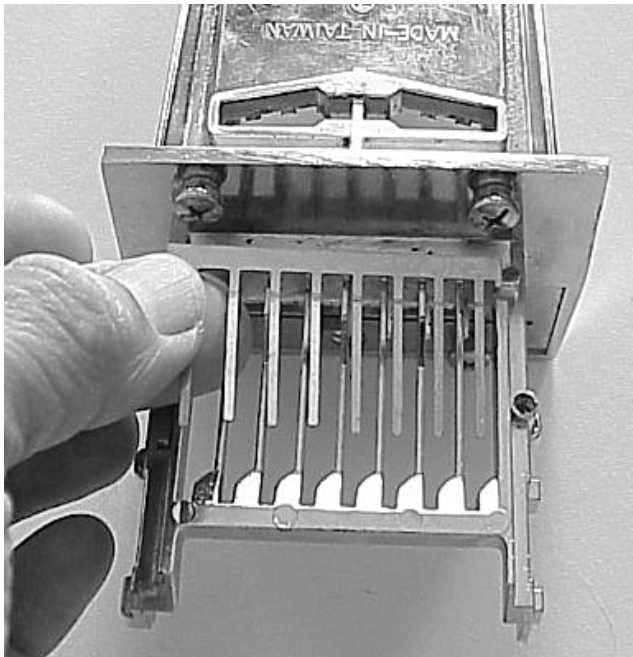




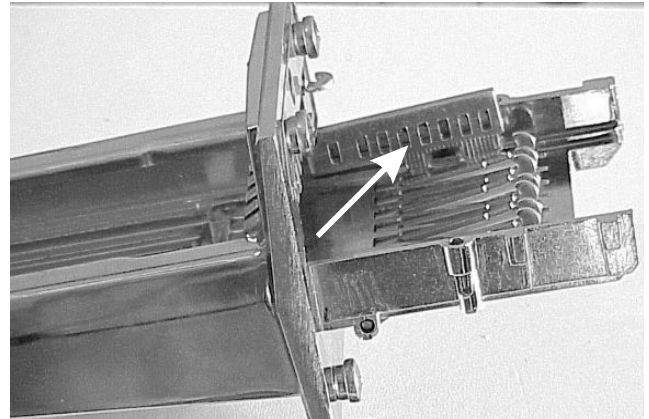
14. To remove the dog stop slides, remove the dog shaft and the slides will pull out.



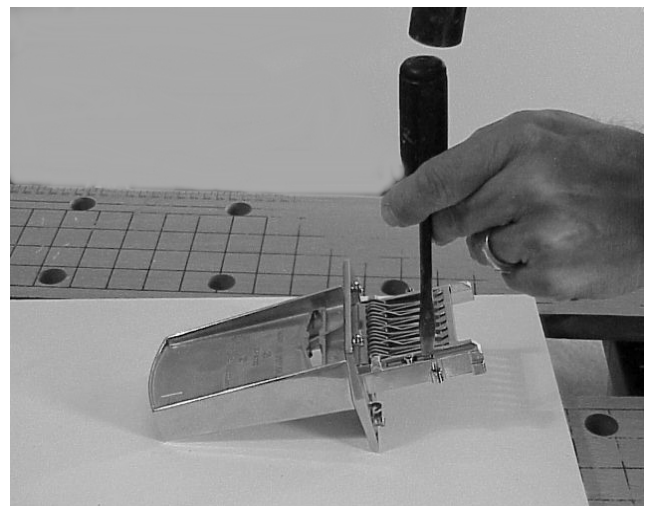
15. To remove the dog stop spring, remove the dog shaft & dog stop slides and the spring will lift out.



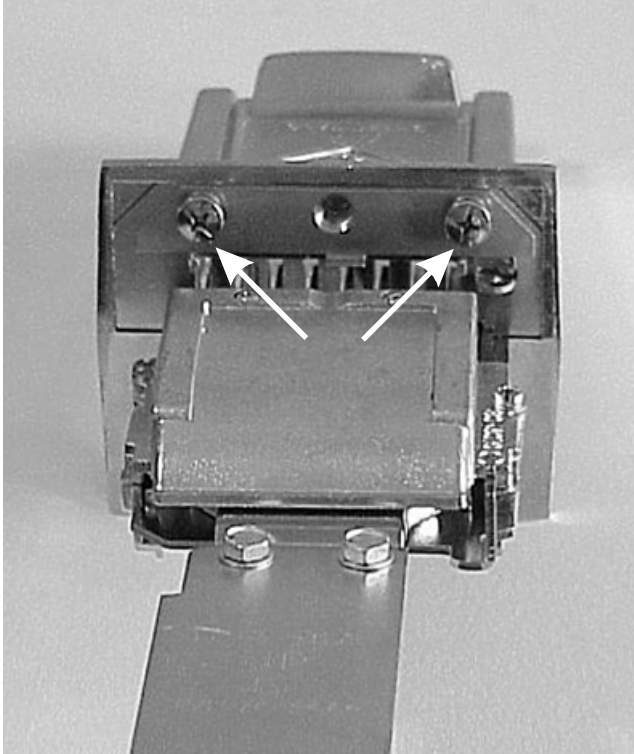
16. The rack is forced into the body casting.



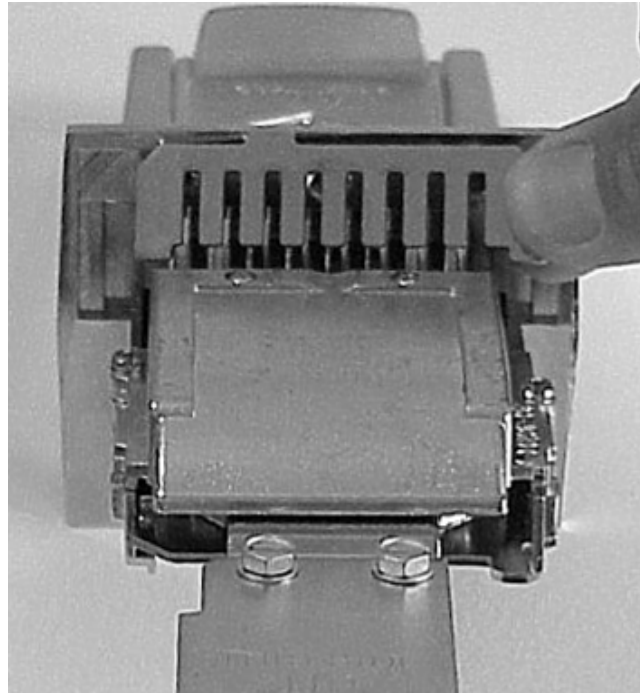
To remove the rack, remove the top housing, turn the body casting over and tap the rack out using a common screwdriver and a hammer.



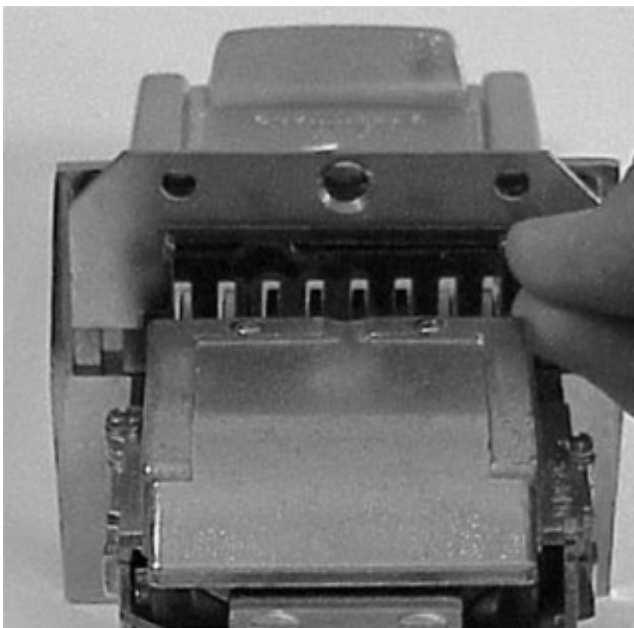
17. To remove the gate cover shield, disconnect the coin slide return spring and remove the (2) Phillips head screws holding the shield to the body casting and lift the shield off.



19. To remove the gate, remove the gate cover and lift the gate off.

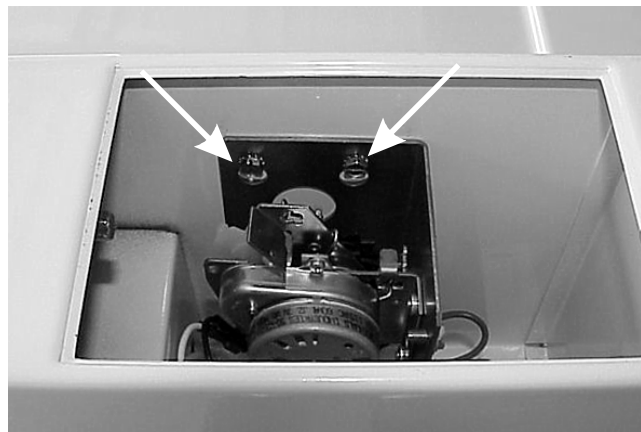


18. To remove the gate cover, remove the gate cover shield and lift the gate cover off.

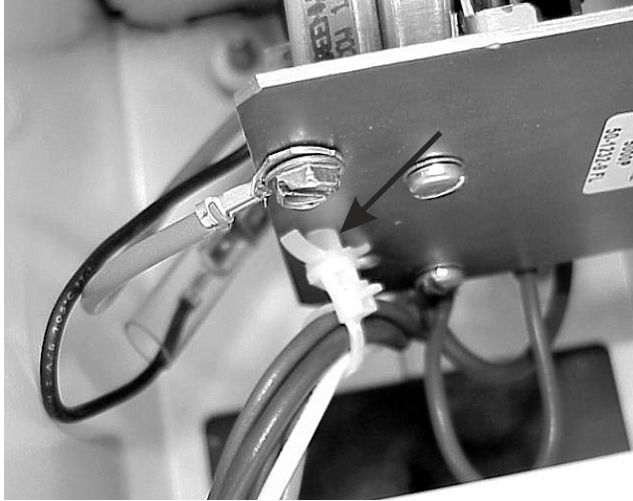


### Removing the accumulator (timer):

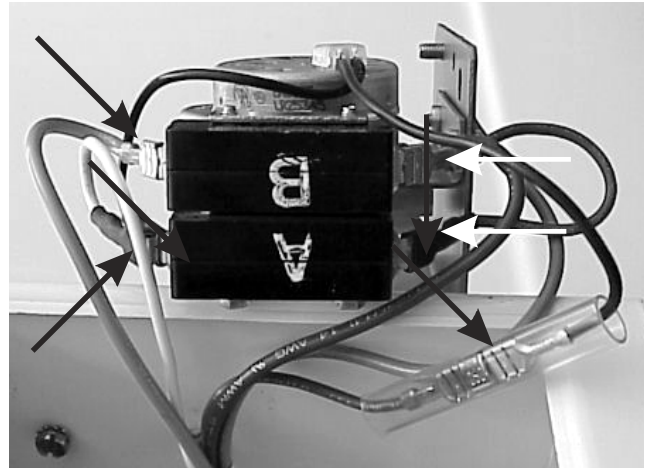
1. Disconnect power and remove the meter case mechanism cover.
2. Using a 5/16" wrench, loosen (2) screws holding the meter case mechanism mounting bracket to the side of the coin box.



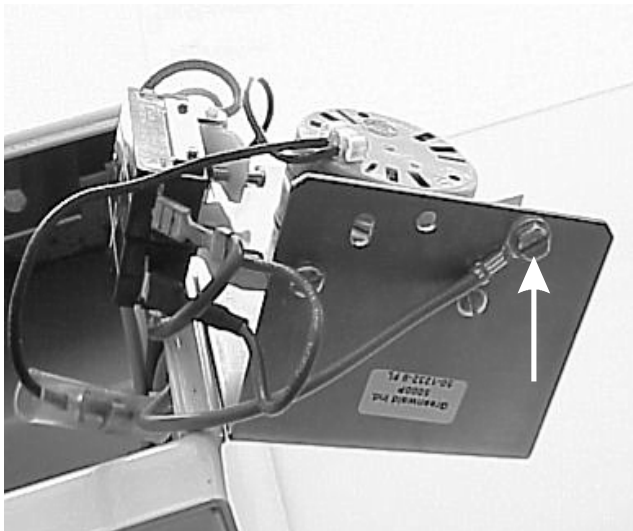
- Released a plastic rivet holding the wire harness to the mounting bracket.



- Disconnect the (4) wires connected to switches A and B and the timer wire going to the blue wire of the harness.



- Raise up and out on the accumulator to disengage the bracket from the screws and lift the accumulator up and out of the coin box.
- Using a 5/16" nut driver, remove the screw holding a ground wire to the accumulator mounting bracket.



### Removing the accumulator mounting bracket:

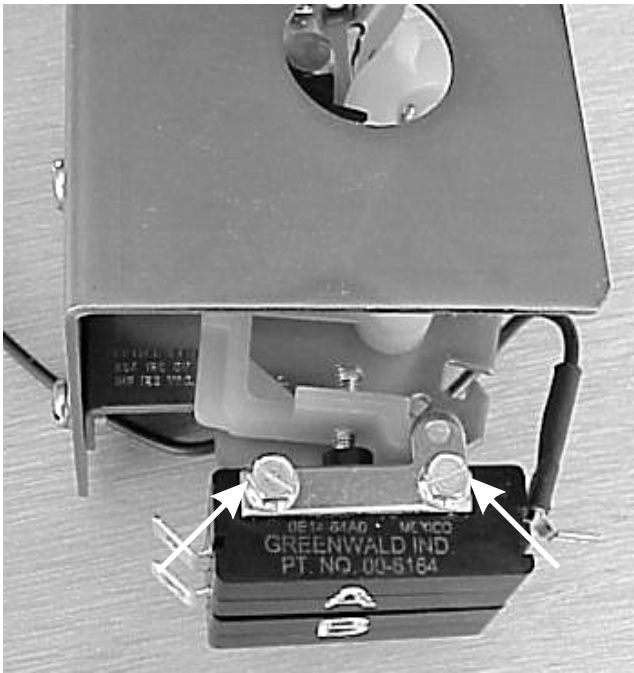
- Disconnect power, lift the accumulator out of the coin box and remove the ground wire.
- Using a common screwdriver, remove the (2) screws holding the accumulator to the bracket.



### Removing switches A and B:

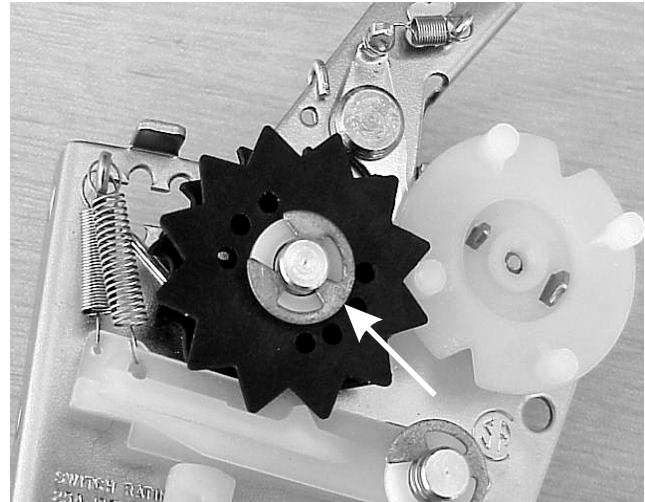
- Disconnect power and remove the accumulator from the coin box.

2. Disconnect the timer wire. Using a 1/4" nut driver, remove the (2) screws holding the switches to the accumulator bracket and lift the switches and the switch arms off.



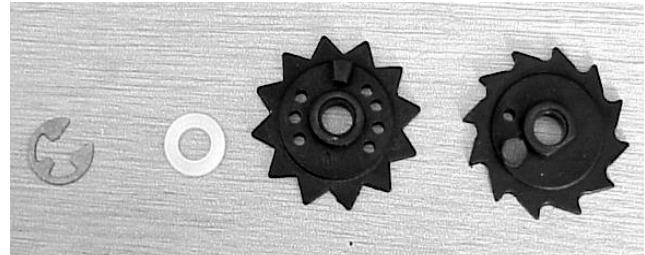
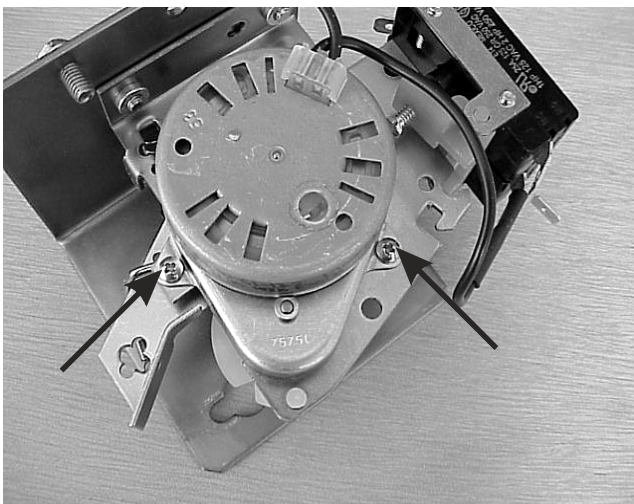
### Removing drive and switch cams:

1. Disconnect power and remove the accumulator from the coin box.
2. Remove the "C" clamp and spacer washer, lift the drive cam and the switch cam off the shaft.



### Removing accumulator motor:

1. Disconnect power and remove the accumulator from the coin box.
2. Using a # 1 Phillips screwdriver, remove the (2) screws holding the motor to the accumulator bracket and slide the motor out of the timing cam.

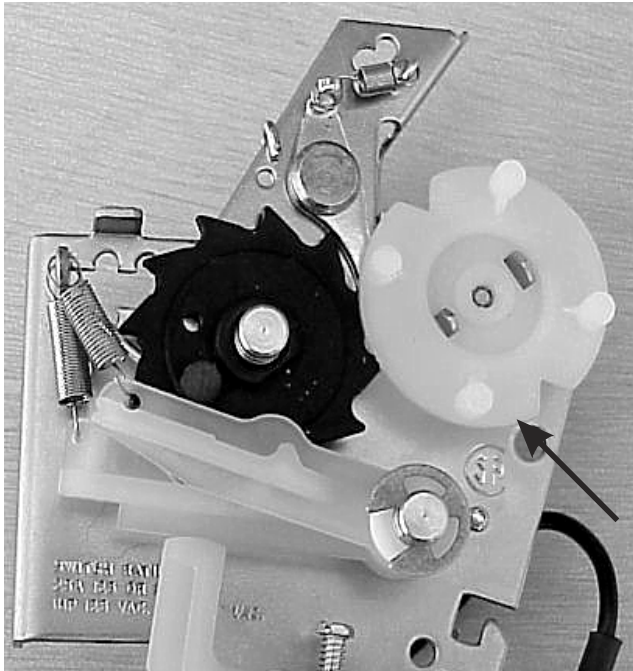


**Note:** When installing the drive cam, be sure the pin on the drive cam is behind and touching the pin on the switch cam.

### Removing timing cam:

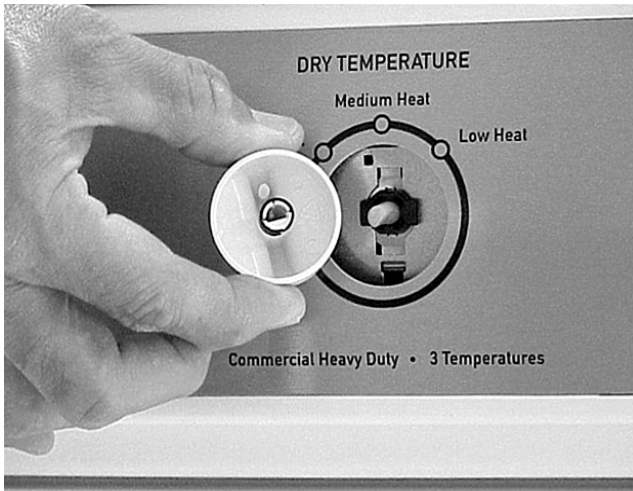
1. Disconnect power and remove accumulator cover.

2. Remove the drive cam and the timing cam will lift off.



### Removing temperature knob:

1. The shaft of the temperature knob is D shaped and is removed by pulling straight off.



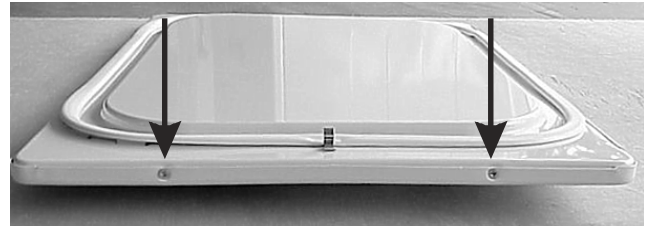
### Removing loading door:

1. While holding the door, remove the (4) Phillips head screws, two from each hinge, and lift the door off.



### Separating the loading door panels:

1. Removed the loading door from the dryer.
2. Remove the (4) Philips head screws, two on the front edge and two on the bottom edge, and lift the inner panel off the outer panel.



### Removing door strike:

1. Removed the loading door and separate the panels.

2. Using a pair of pliers, squeeze the back of the strike and push the strike out the front.

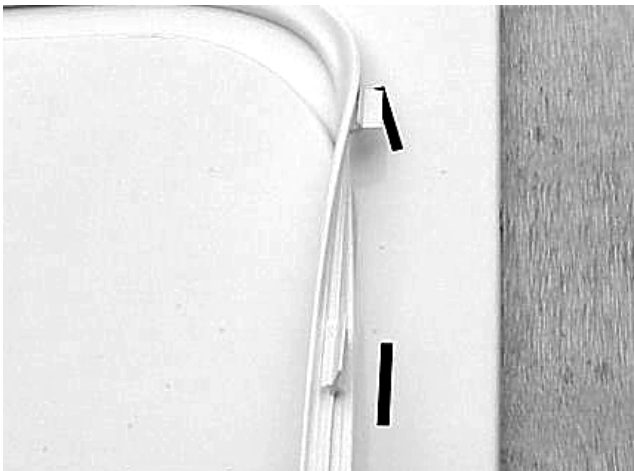


2. If the seal is to be reused, separate the panels and use a small screwdriver to push the tabs through the liner.



### Removing door seal:

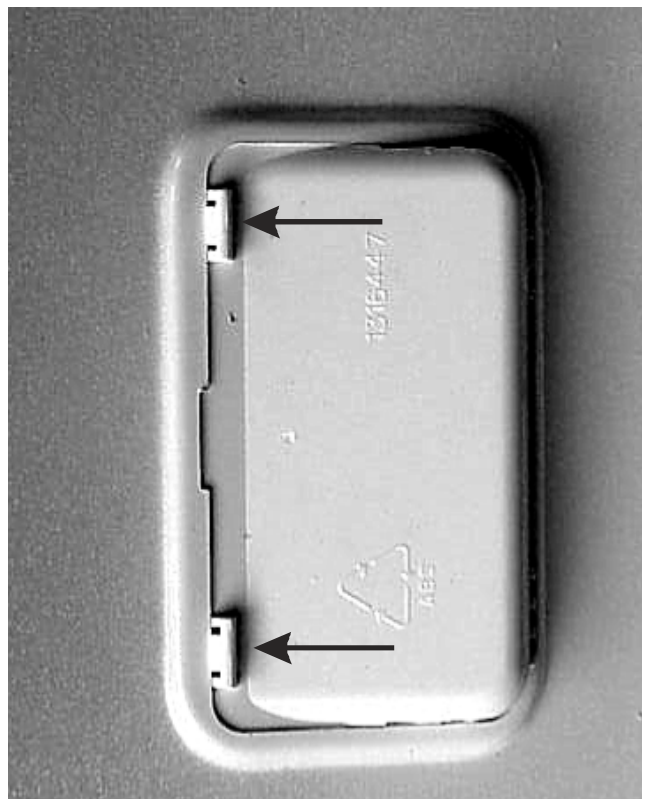
1. The door seal has molded tabs that expand when inserted through the front of the inner liner.



If the door seal is to be replaced, the old seal can be pulled off, and the new seal inserted in its place.

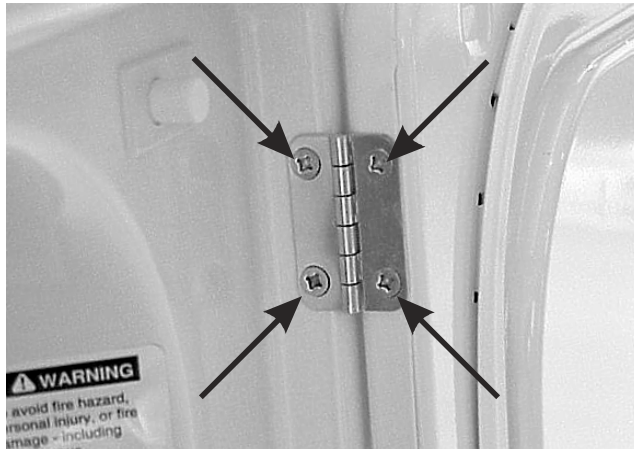
### Removing door handle:

1. Remove the loading door and separate the panels.
2. Release the (2) locking tabs and push the handle out the front of the panel.



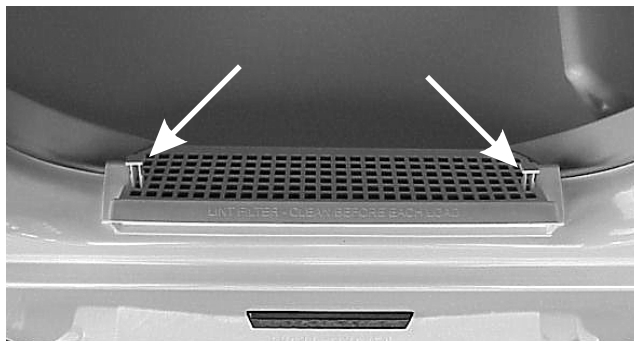
## Removing door hinges:

1. Open the door and while holding the door, remove the (4) Phillips head screws, two holding the hinge to the door and two holding the hinge to the front panel.



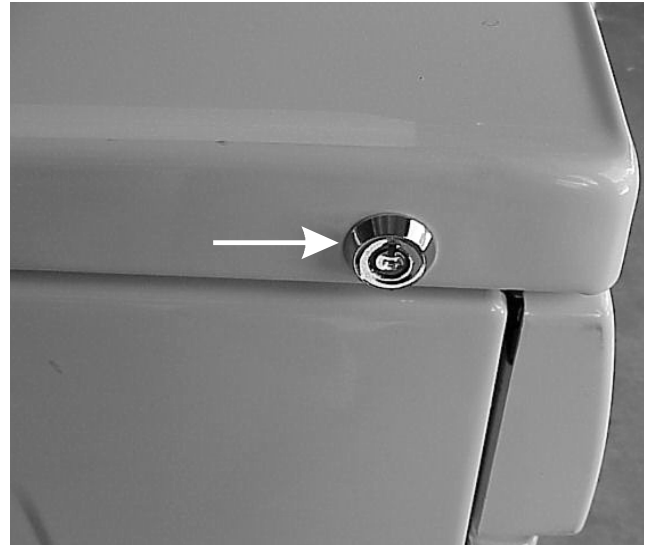
## Removing lint screen:

1. Open the door and using a common screwdriver, pop the (2) locking pins out. The lint screen will now lift out.

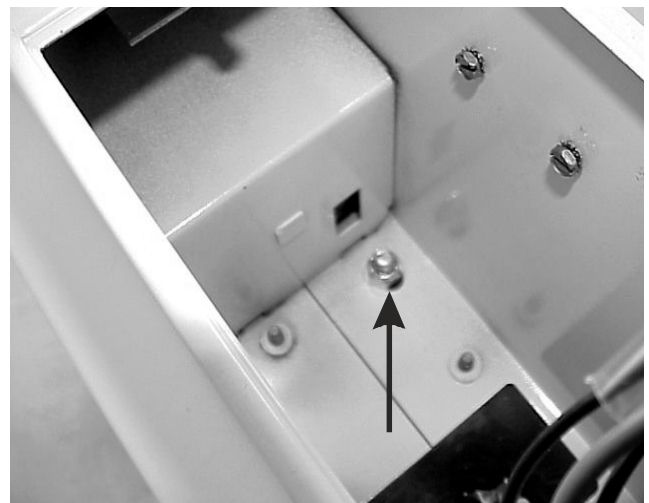


## To raise the front of the top panel:

- Note:** The lock face on the front left side of the main top is for appearances only and does not lock the main top to the dryer.



1. Disconnect power and remove the accumulator compartment cover.
2. Using a 9/16" deep socket, remove the nut holding the coin box and the top panel to the anti-theft brace.



3. The main top is held in place by two spring-loaded clips in the front and two hinges in the rear.



5. Once the clips have been released, the front of the top panel can be picked up.

**Note:** Because of the weight of the coin box, it is recommended that the top panel be removed, rather than just raised, when working under the top panel.

#### To remove the top panel and coin box:

1. Disconnect power and raise the front of the top panel.
2. Disconnect the harness to the coin box.



4. To raise the top panel, release the front of the top by inserting a putty knife between the top and the front panel, push back on the clip while lifting up on the front of the top panel.



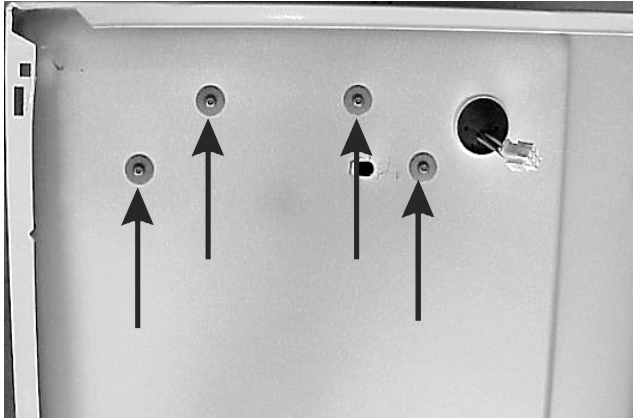
3. The rear hinges are inserted into slots in the top panel. To remove the top panel slide the top panel off of the rear hinges.





### Removing the coin box:

1. Disconnect power from the dryer and remove the top panel and coin box.
2. Using a security Torx # 27 bit, remove the (4) screws holding the coin box to the top panel and lift the coin box off.



### Removing the gasket between the coin box and the top panel:

1. Disconnect power from the dryer and remove the coin box from the top panel.
2. Lift off the gasket.



### Removing the holddown bolt:

1. Disconnect power and remove the top panel.
2. Using a 3/4" wrench, remove the spacer from the bolt. The bolt will drop out the bottom.



### Removing the holddown bar:

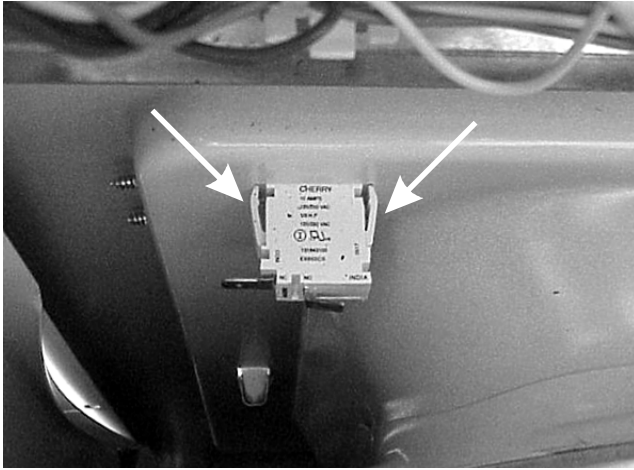
1. Disconnect power and remove the top panel.
2. Remove the (4) screws, two in the front and two in the rear, holding the bar to the front brace and the rear panel.



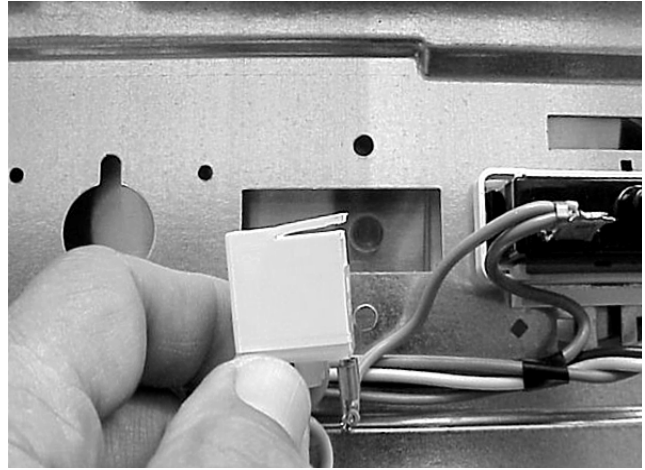
### Removing the door switch:

1. Disconnect the dryer from electrical supply, open the door and remove the top.
2. Disconnect the wires from the door switch.

3. Squeeze the release tabs on the ends of the switch and push the switch out the front.

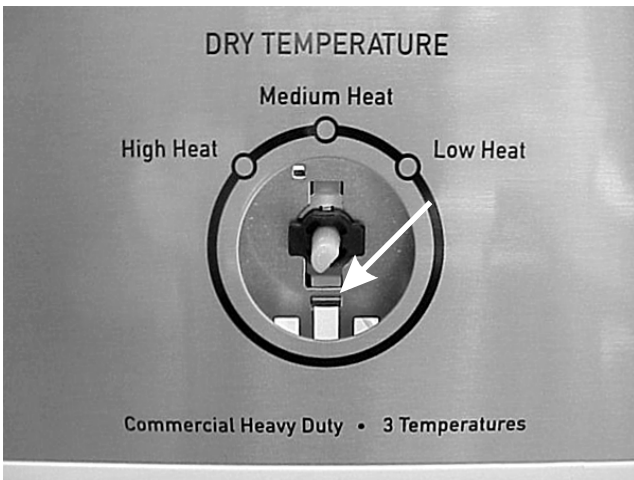


2. Slide the light to the left to disengage it from the lens and disconnect the wires.



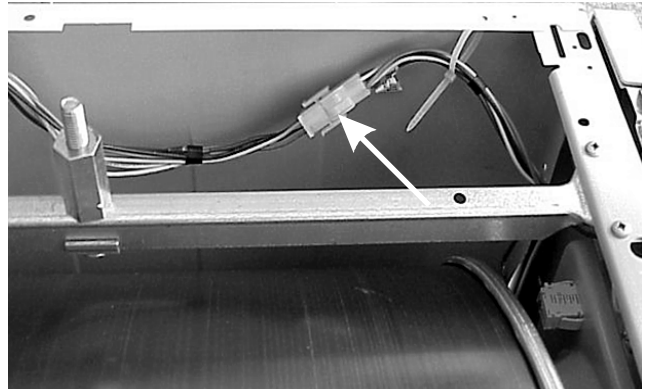
### Removing the temperature switch:

1. Disconnect the dryer from electrical supply, remove the top panel and disconnect the wires from the back of a switch.
2. Remove the temperature switch knob and push in on the locking tab. Turn the switch housing one quarter turn and pull the switch out the back.



### Removing the front panel:

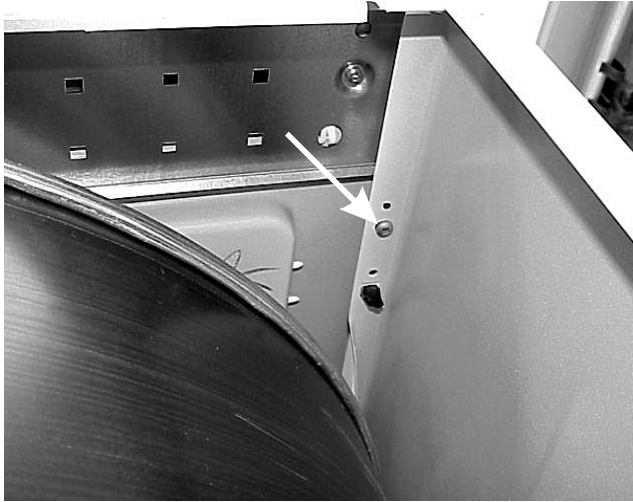
1. Disconnect the dryer from electrical supply and remove the top panel.
2. Disconnect the wire harness to the console.



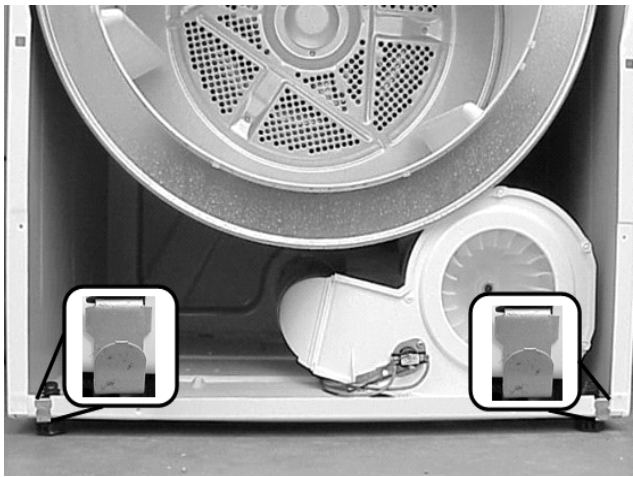
### Removing the indicator light:

1. Disconnect the dryer from electrical supply and remove the top panel.

3. Remove the (2) screws, one on each side about 6 inches down from the top, which secure the front panel to the side panels.



4. Pull out on the top of the front panel to release the spring loaded tabs and lift the front panel off the (2) clips at the bottom.



**Note:** The front of the drum will now drop down.

### Removing the console:

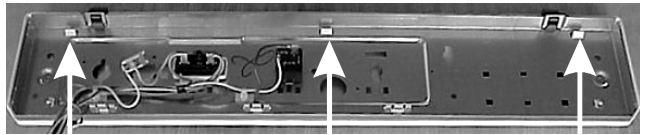
1. Disconnect the dryer from electrical supply and remove the front panel.

2. Remove the (2) screws holding the console to the front panel and pull the console up and off.



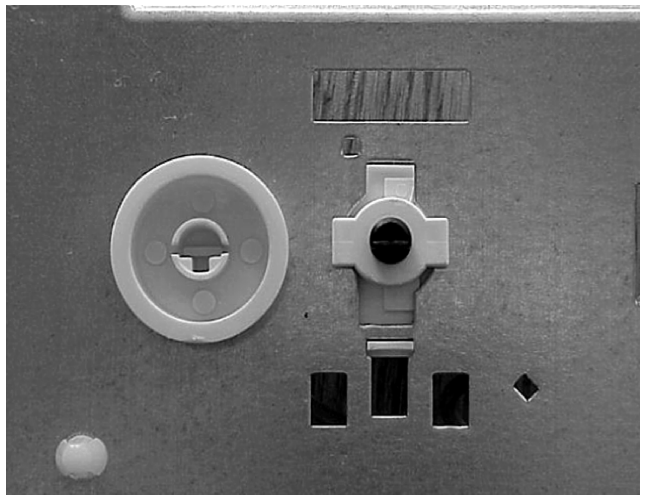
### Removing the console frame:

1. Disconnect the dryer from electrical supply and remove the console.
2. Release the (3) plastic locking tabs at the top of the console and roll the top of the frame forward to release the bottom locking tabs and lift the frame off.



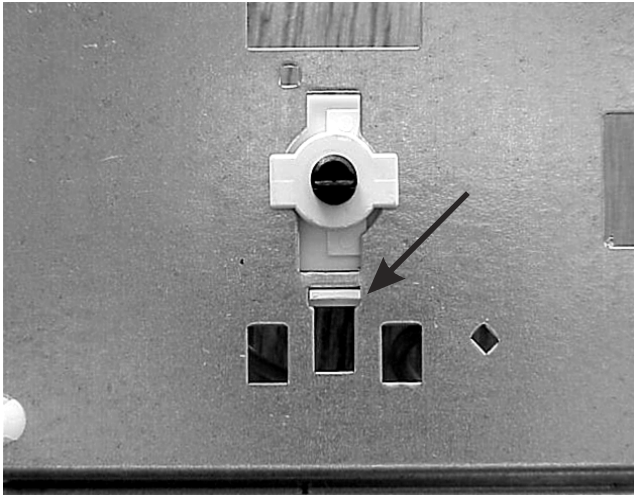
### Removing the start button:

1. Disconnect the dryer from electrical supply and remove the console frame.
2. The button has a D shaped shaft and is removed by pulling straight off.



### Removing the start switch:

1. Disconnect the dryer from electrical supply and remove the console frame.
2. Disconnect the wires from the switch and remove the start button. Press in on the locking tab, turn the switch one quarter turn and pull it out the back.



### Removing the door catch:

1. Disconnect the dryer from electrical supply and remove the front panel.
2. Using a common screwdriver, pop the spring clip off the back of the door catch.

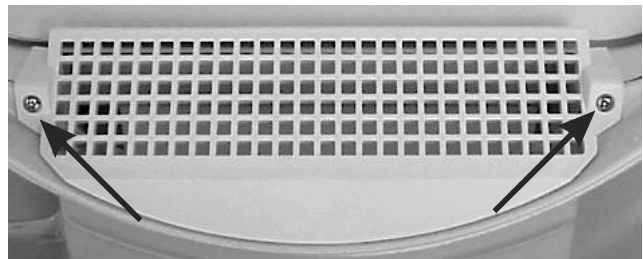


3. Using a pair of pliers, squeeze the bottom and top locking tabs of the catch and push the catch out the front of the panel.



### Removing the door vent grill:

1. Open loading door and remove the vent screen
2. Remove the (2) screws holding the grill to the front panel. Slide the grill back to disengage from the panel.

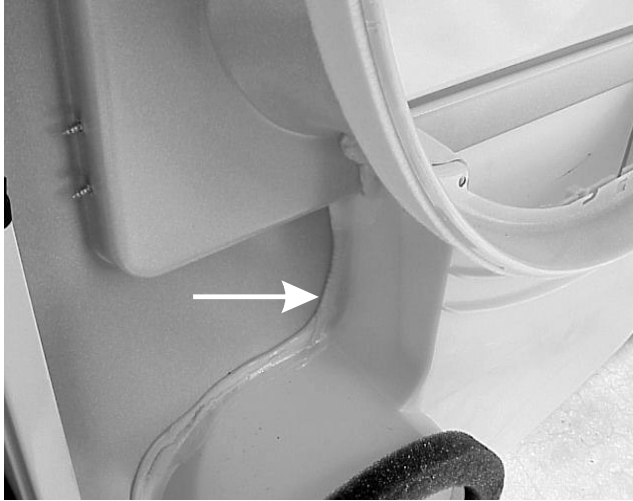


### Replacing the front panel air duct:

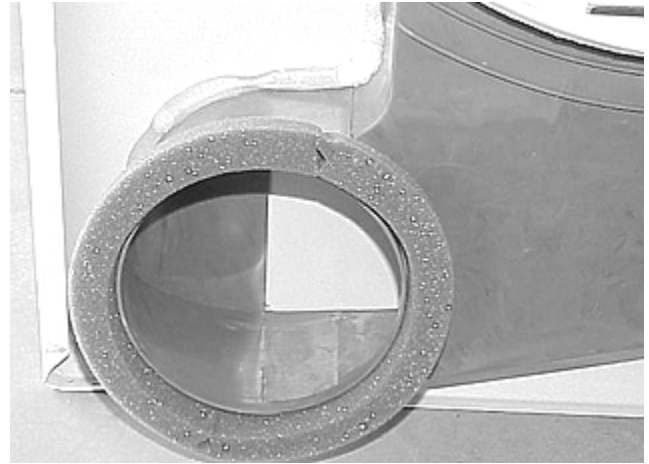
**Note:** The air duct is sealed to the front panel with hot melt glue at the time of production. When the air duct or front panel is replaced in the field, it is necessary to remove the glue with a putty knife or screwdriver. When reinstalling the air duct, use permagum to reseal it to the front panel.

1. Disconnect the dryer from electrical supply and remove the front panel.
2. Remove the vent grill.

3. Remove the hot melt glue and pull air duct down and lift off.

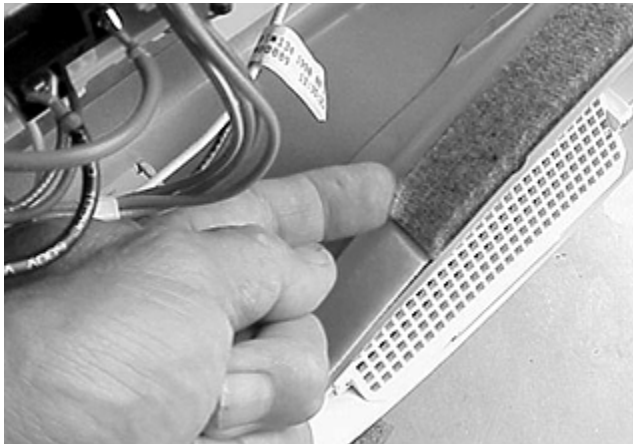


2. The foam seal, glued to front panel duct, provides a seal between the front panel duct and the blower.
3. To replace the seal, pull the old seal off, clean the duct and glue the replacement to the duct.



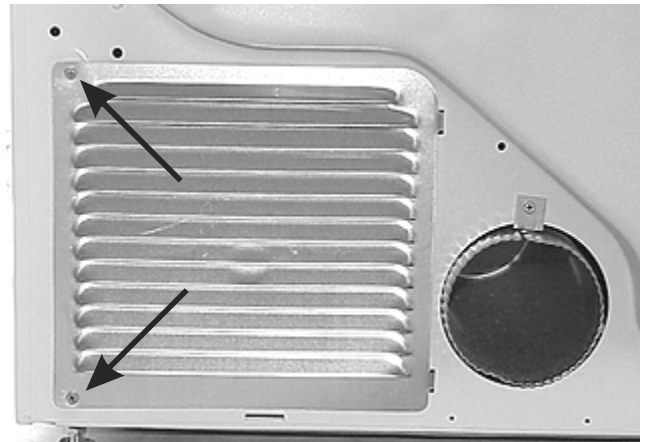
### Replacing the felt seal:

1. Disconnect the dryer from electrical supply.
2. Remove the front panel.
3. The felt seal is a (2) piece seal that is glued to the rim of the door opening and is what the drum rides on.
4. To replace the seal, pull the old seal off, clean the rim and glue the replacement to the rim.



### Removing the rear access panel:

1. Remove the (2) screws holding the access panel to the rear panel, swing the left side of the panel out to disengage the tabs and remove.



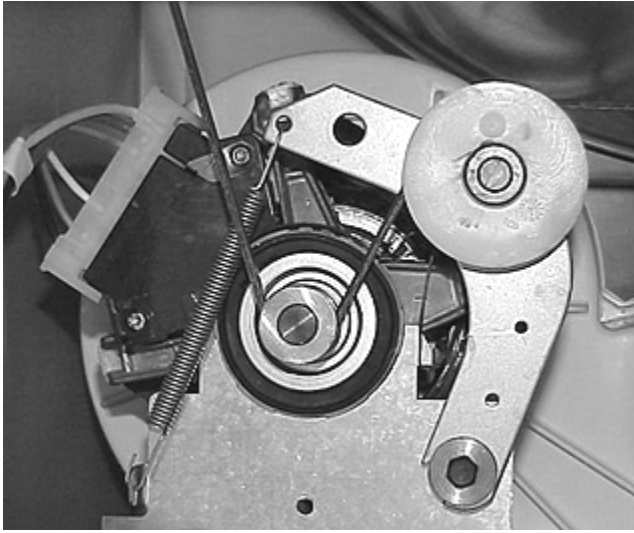
### Releasing the dryer belt:

1. Remove the access panel.

### Replacing the foam seal:

1. Disconnect the dryer from electrical supply and remove the front panel.

2. Push the idler pulley to the right and slip the belt off the motor pulley.

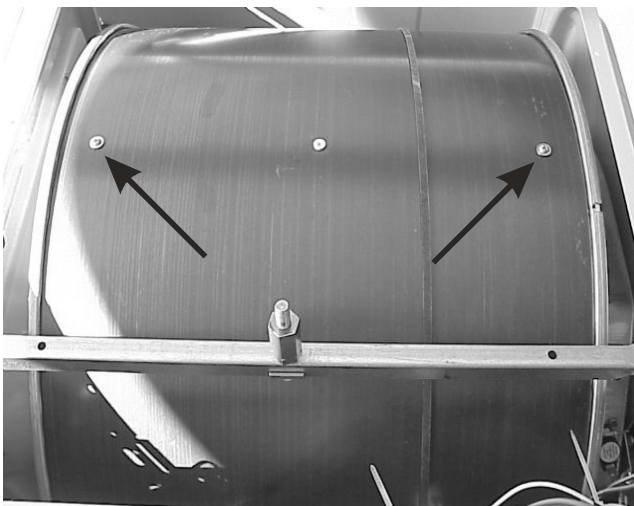


4. Using the belt to raise rear of the drum to release the ball from the hitch and move the drum out the front.



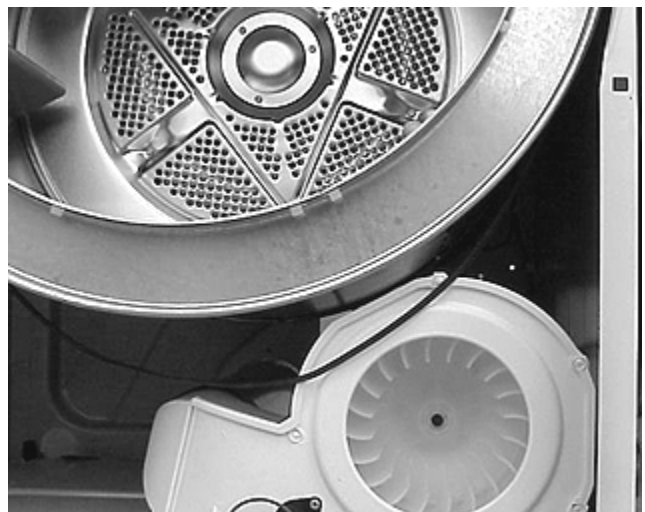
### Removing the vane from the drum:

1. Disconnect the dryer from electrical supply.
2. Open the door, remove the top panel and the (2) screws holding the vane to the drum. The vane will drop into the drum.



### Removing the belt:

1. Disconnect the dryer from electrical supply.
2. Remove the top and front panels.
3. Release the belt from the motor.
4. From the front, slightly raise the front of the drum and slide the belt off the drum.

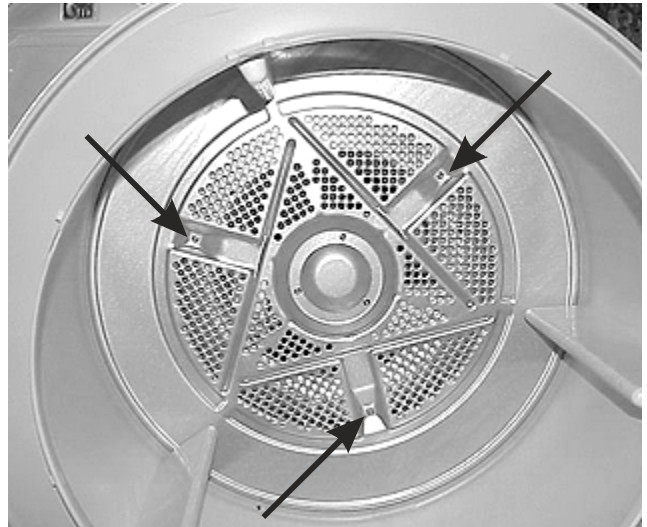
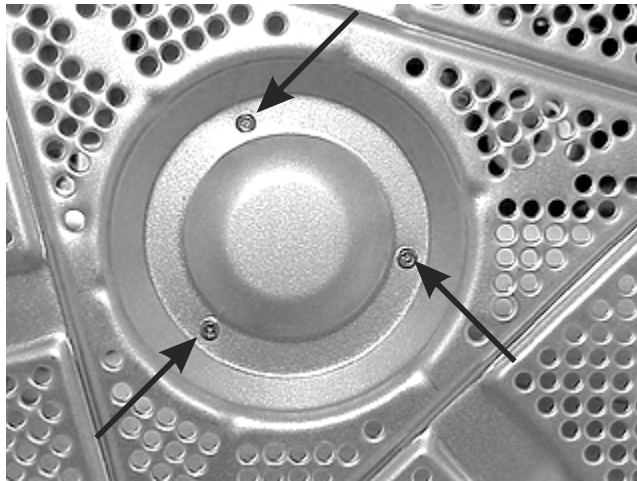


### Removing the drum:

1. Disconnect the dryer from electrical supply.
2. Remove the top and the front panels.
3. Release the belt from the motor.

### Removing the ball hitch from the drum:

1. Disconnect the dryer from electrical supply and remove the drum.
2. Remove the (3) screws from inside the drum securing the ball hitch to the drum.



### Removing the ball hitch support:

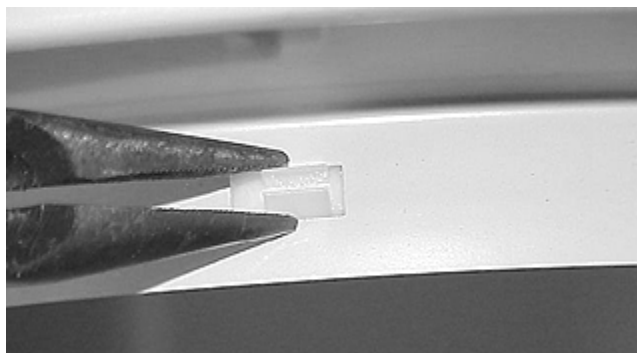
1. Disconnect the dryer from electrical supply and remove the drum.
2. Using a 5/16" nut driver, remove the (2) screws holding the ball hitch support to the rear panel while holding the large tinnerman clip from the rear of the dryer.



**Note:** Do not lose the grounding ball or the tinnerman mounting clip from the rear of the dryer.

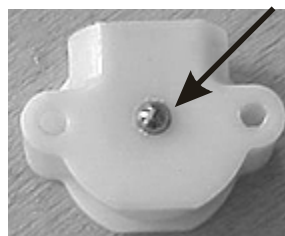
### Removing the teflon glides:

1. Disconnect the dryer from electrical supply and remove the front panel.
2. To release the glides, squeeze the tabs which hold the glides to the rim of the drum and push out.



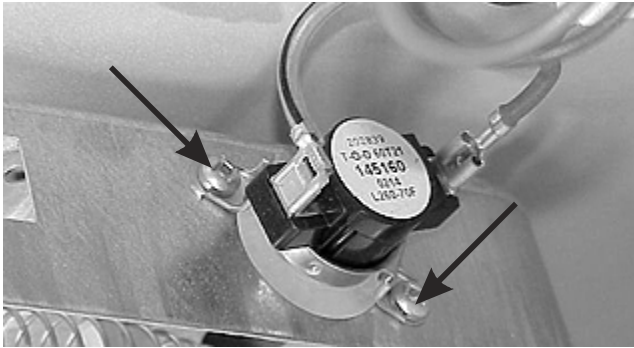
### Removing the drum heat shield: (Electric dryers)

1. Disconnect the dryer from electrical supply and remove the drum.
2. Remove the (3) screws from inside of the drum securing the shield to the rear of the drum.



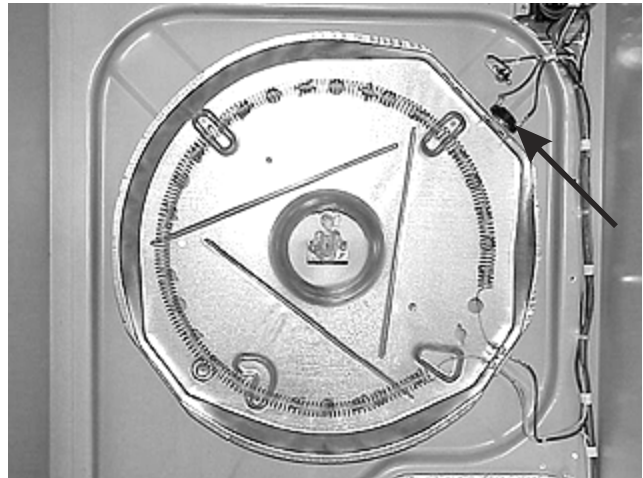
### Removing the high limit thermostat:

1. Disconnect the dryer from electrical supply and remove the top panel.
2. Disconnect the (2) wires and remove the (2) screws holding the thermostat to the heating element assembly.



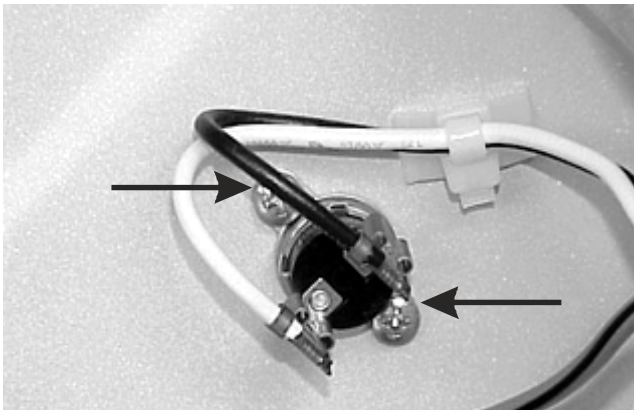
### Removing the heating element assembly: (Electric dryers)

1. Disconnect the dryer from electrical supply and remove the drum.
2. Disconnect the (2) wires from the heating element.
3. Remove the high limit thermostat.

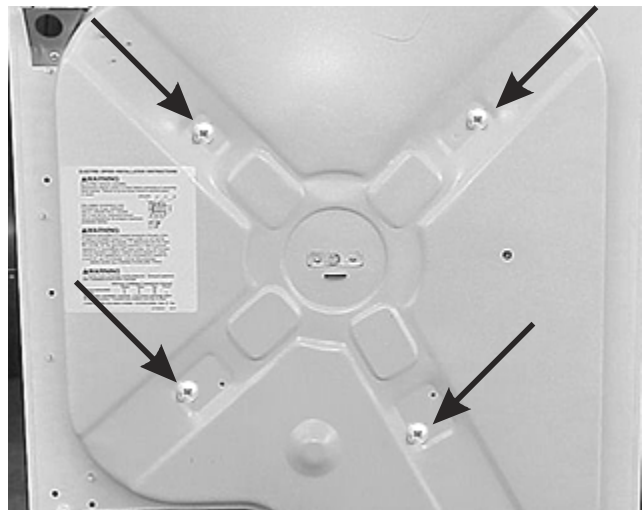


### Removing the thermal limiter: (Electric dryers)

1. Disconnect the dryer from electrical supply and remove the top panel.
2. Disconnect the (2) wires and remove the (2) screws holding the thermal limiter to the rear panel.



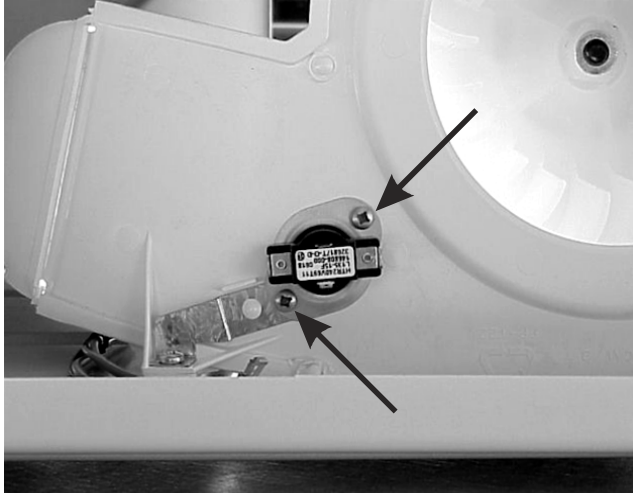
4. From the rear of the dryer, remove the (4) screws securing the heating element assembly to the rear of the cabinet.





### Removing the control thermostat:

1. Disconnect the dryer from electrical supply and remove the front panel.
2. Disconnect the wires from the thermostat and remove the (2) screws holding the thermostat to the blower housing.

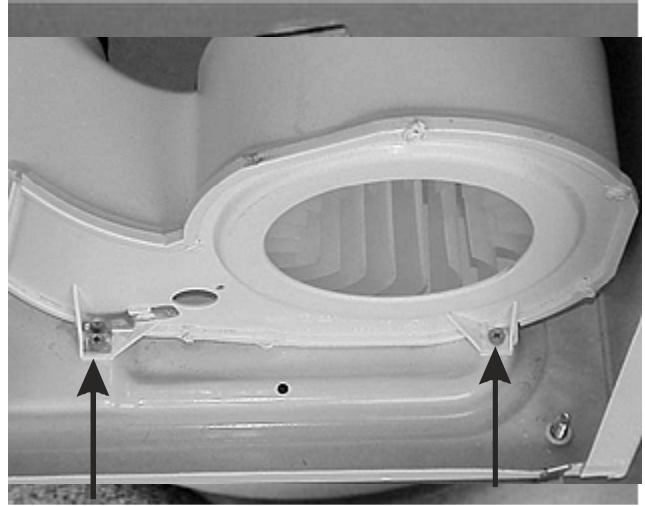


### Removing the blower housing and fan blade:

1. Disconnect the dryer from electrical supply and remove the drum.
2. Remove the control thermistor.
3. Using a 7/8" socket, turn the fan blade clockwise while holding the motor shaft to remove the fan blade from the motor shaft.



4. Remove (2) screws holding the housing to the dryer base.



5. Remove the front motor lock by inserting a screwdriver at the rear of the housing to release the housing from the motor.

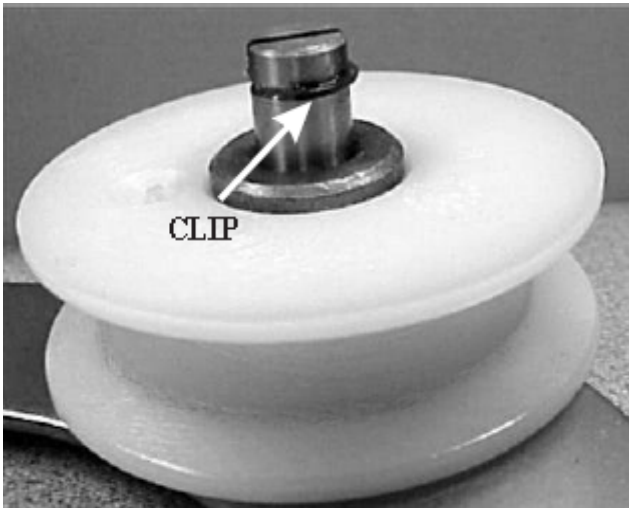


6. Raise the front of the motor and pull the housing forward.

### Removing the idler pulley:

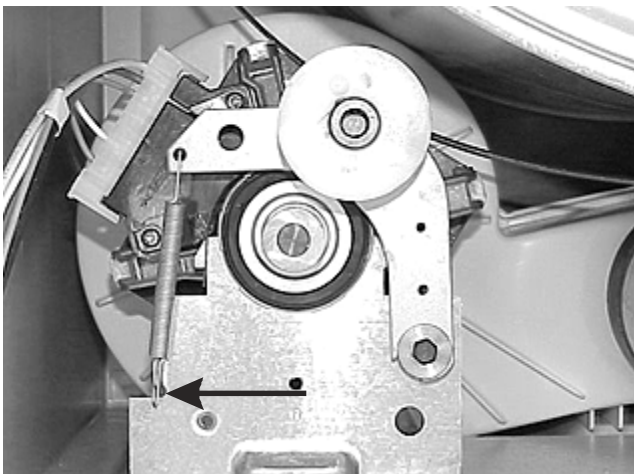
1. Disconnect the dryer from electrical supply and remove the rear access panel.

2. Release the belt from the motor pulley, remove the "C" clip from the shaft and slide the idler pulley off.



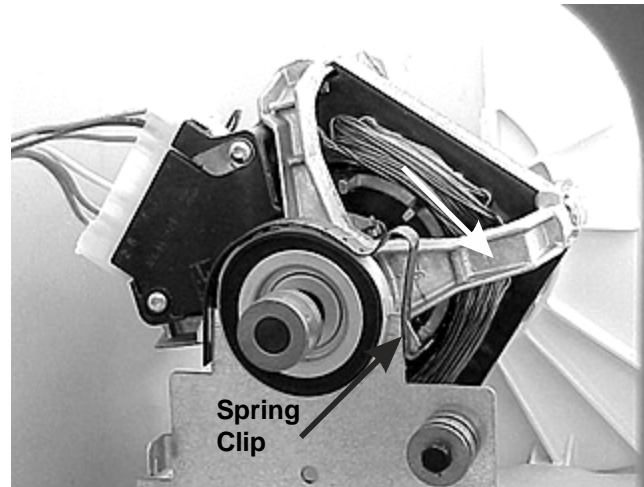
### Removing the idler pulley assembly:

1. Disconnect the dryer from electrical supply and remove the rear access panel.
2. Release the belt from the motor pulley.
3. Release the idler spring from the motor and lift the assembly off the motor.



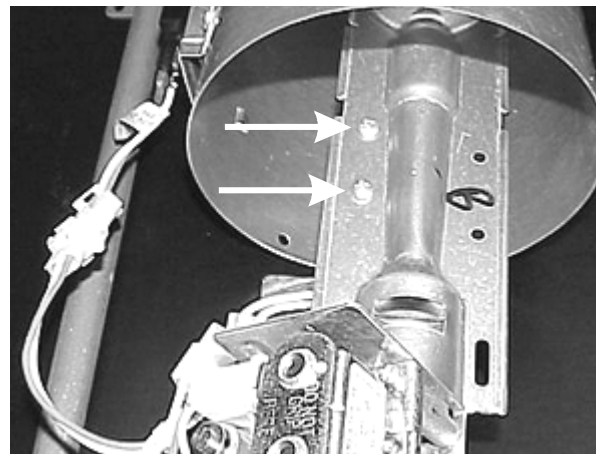
### Removing the drive motor:

1. Disconnect the dryer from electrical supply and remove the drum.
2. Unplug the harness from the motor and remove the idler assembly.
3. Unscrew the blower wheel from motor shaft.
4. Release the front motor lock from the blower housing.
5. Using a straight screwdriver, release the spring clip securing the rear of the motor and lift the motor out.



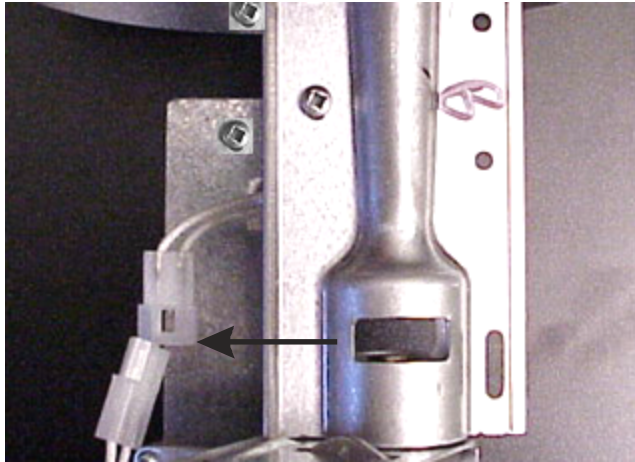
### Removing the burner: (Gas dryers)

1. Disconnect the dryer from electrical supply and remove the front panel.
2. Unplug the igniter, remove the (2) screws holding the burner to the valve assembly bracket, and slide the burner into the combustion chamber to release the burner from the valve.

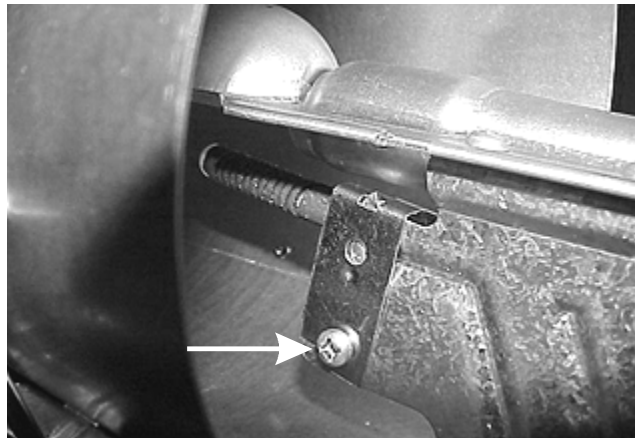


## Removing the igniter: (Gas dryers)

1. Disconnect the dryer from electrical supply and unplug the igniter harness.



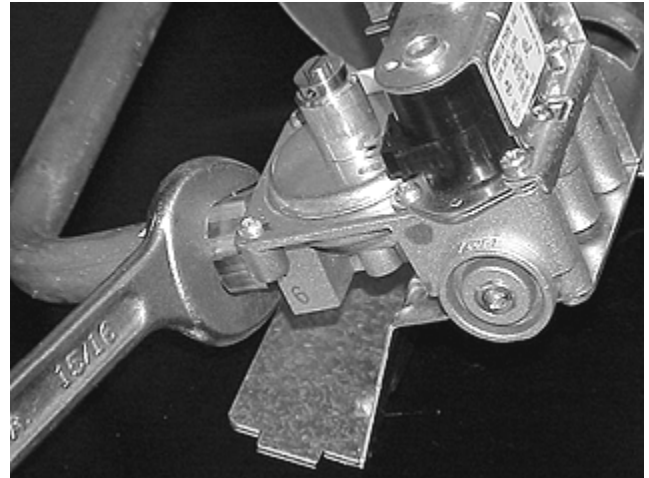
2. The igniter is held to the burner mounting bracket by a screw and a tab. Remove the screw and lift the igniter up to release the tab, then slide the igniter forward.



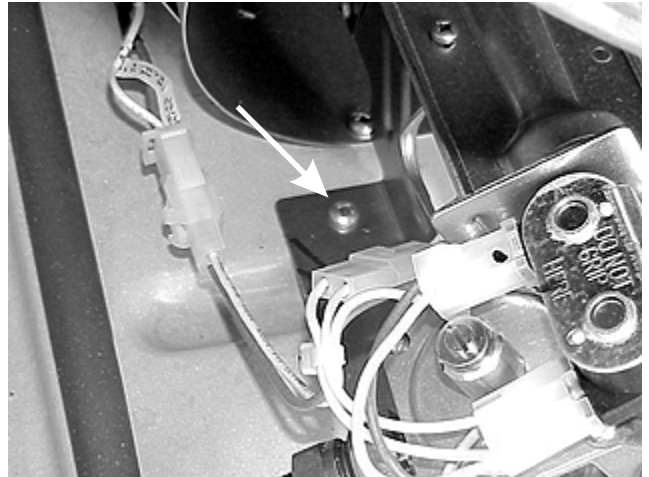
## Removing the gas valve assembly: (Gas dryers)

1. Turn the gas supply off and disconnect the dryer from electrical supply.
2. Unplug the wires from the valves.

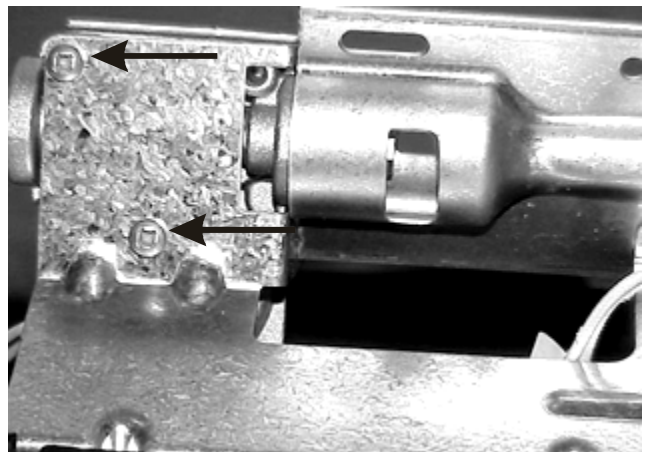
3. Using a 15/16" open end wrench, disconnect the manifold pipe from the valve.



4. Remove the (1) screw securing the gas valve assembly bracket to the base, slide the gas valve assembly forward and lift out the gas valve assembly.



5. Remove the (2) screws holding the valve to the bracket.



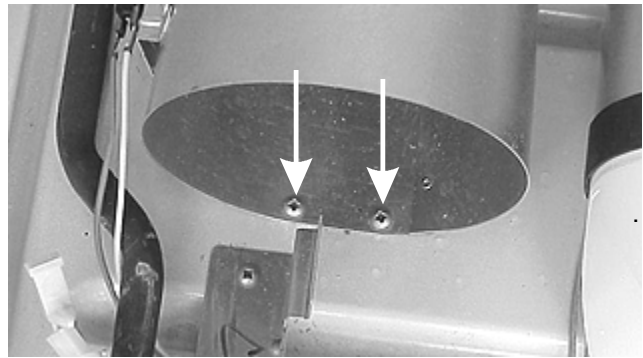
### Removing the gas valve coils: (Gas dryers)

1. Disconnect the dryer from electrical supply and remove the front panel.
2. Disconnect the wires from the coils, remove the (2) screws holding the coil bracket to the valve base and lift off the coils.



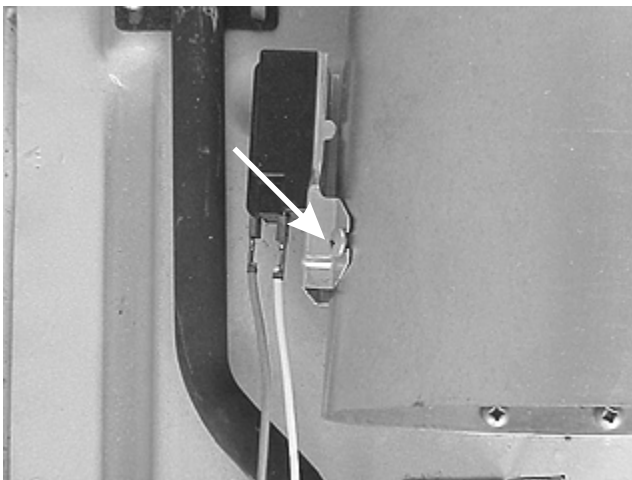
### Removing the combustion chamber: (Gas dryers)

1. Disconnect the dryer from electrical supply and remove the sensor and gas valve assembly.
2. Remove the (2) screws holding the combustion chamber to the base, raise the end and pull the chamber out the duct.



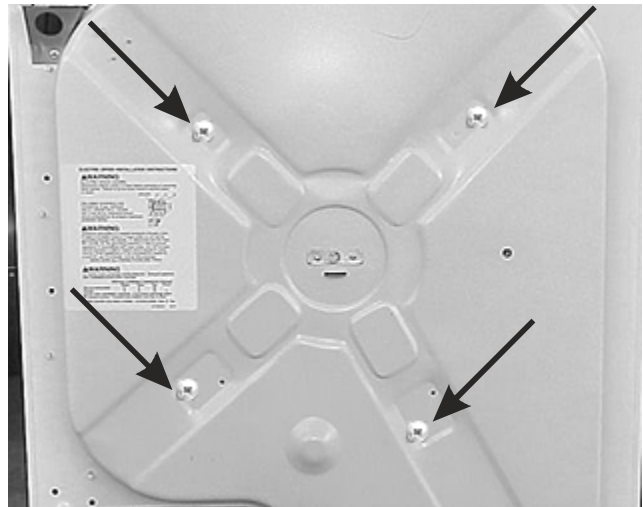
### Removing the sensor: (Gas dryers)

1. Disconnect the dryer from electrical supply and remove the front panel.
2. Disconnect the (2) wires from the sensor.
3. Remove the (1) screw holding the sensor to the combustion chamber.

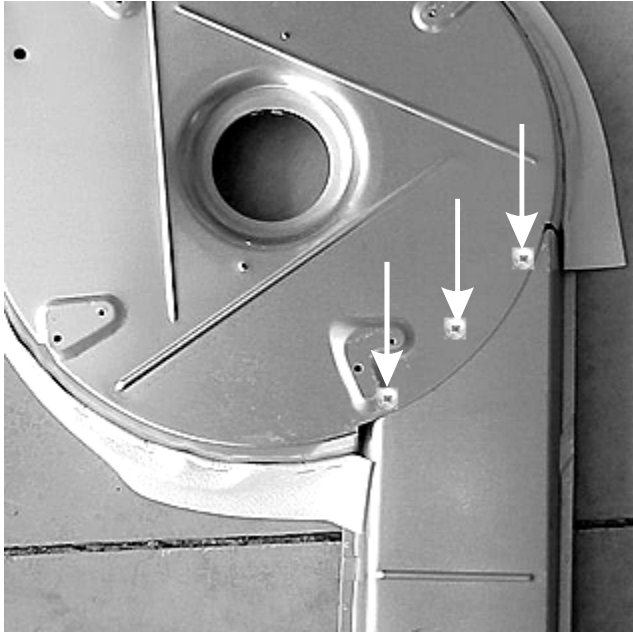


### Removing the duct and heat shield: (Gas dryers)

1. Disconnect the dryer from electrical supply and remove the drum.
2. Remove (4) screws securing the heat shield to the rear panel.



3. Lift the shield and duct out of the dryer and remove the (3) screws holding duct to the heat shield.

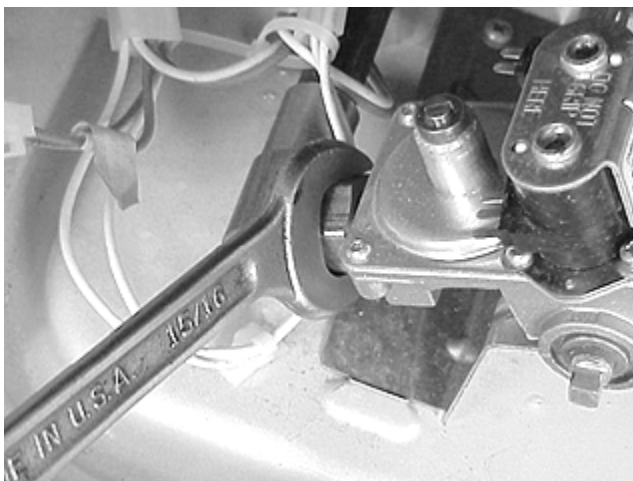


5. Remove the (2) screws holding the manifold pipe to the base and lift out the pipe.



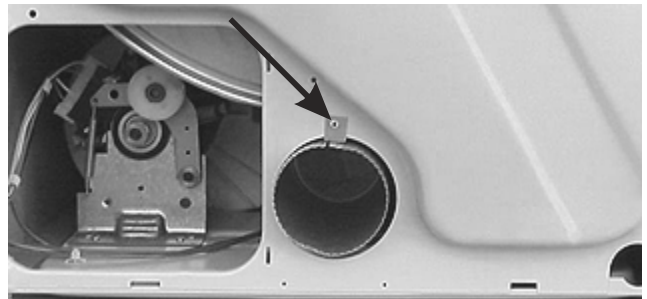
### Removing the manifold pipe: (Gas dryers)

1. Disconnect the dryer from electrical supply.
2. Turn the house gas supply off and disconnect the gas supply from the dryer.
3. Remove dryer front panel.
4. Using a 15/16" open end wrench, disconnect the manifold pipe from the valve.



### Removing the vent pipe: (Gas dryers)

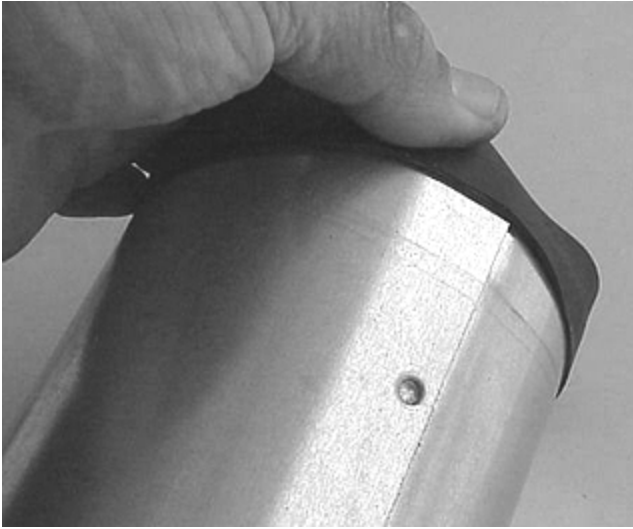
1. Remove the (1) screw holding vent to the rear panel and pull the vent pipe out the back.



### Removing the gasket between the vent pipe and blower housing : (Gas dryers)

1. Disconnect the dryer from electrical supply.
2. Remove front panel and slide the gasket completely on to the vent pipe.

3. Remove the vent pipe out the rear of the dryer and remove the gasket from the vent pipe.



4. When reinstalling, install the gasket on the vent pipe, install the vent pipe in the dryer and slide half of the gasket on to the blower housing from the front of the dryer.



