



# Service Manual

## Dryers

**Models:**  
DE09 / DG09  
DE60FA / DG60FA

care

479536

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# 1 INTRODUCTION

This service manual is designed to show all components and servicing of the DE/DG09 and DE/DG60FA Dryers.

These dryers are only sold in the USA and Canada.

## 1.1 Overview

These models are front-loading dryers, which run a semi analogue/electronic control system. All switching for the dryer is carried out by the timer, selector switches, thermostats and motor, but the auto-dry is controlled by the PCB assembly.

The motor is a single phase, single direction motor with a centrifugal start.

The electric models have a coil element design mounted to a cowl on the rear of the drum.

The gas models run a burner, from where the heat is ducted into the cowl. These can be run on natural gas or can be converted to LP gas.

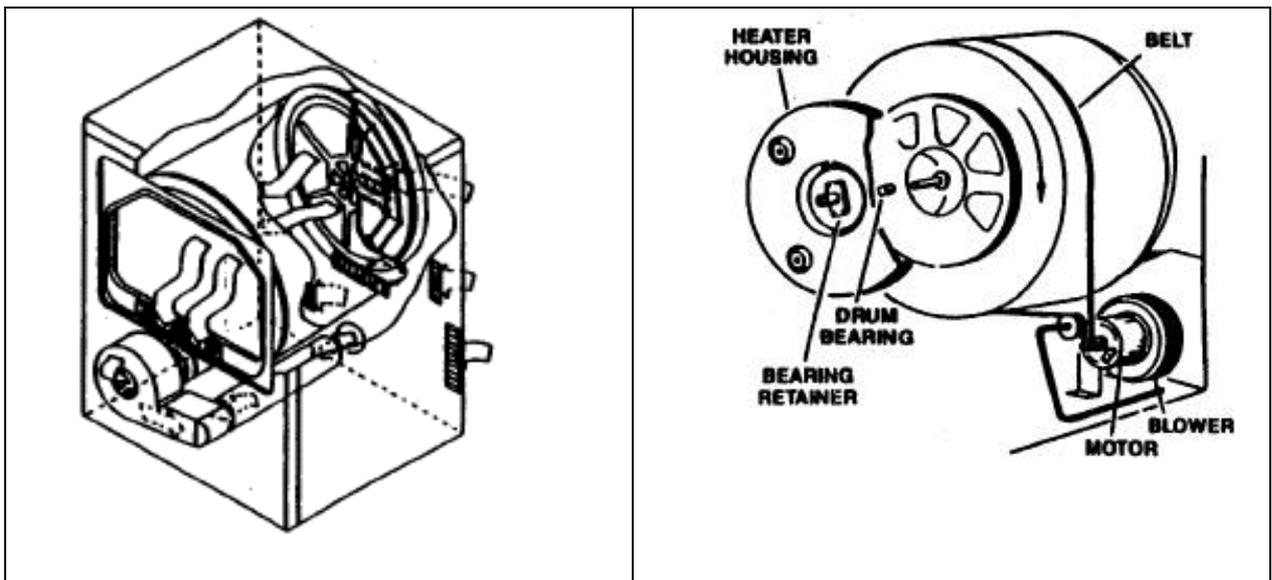
## 1.2 Air Flow

Air is pulled into the cabinet from the rear by the fan.

In gas models, air pulled through the burner assembly. The heated air then flows through the drum cowl and into the drum.

In electric models, the air pulled from the fan is blown into the elements in the cowl and is heated. It then flows into the drum.

Air from the drum is pulled through the clothes and into the lint filter. The air is then drawn into the fan and then blown out the exhaust system. The blower is mounted directly to the motor shaft.



**Air Flow**

**Drum Operation**

## 2 INSTALLATION

### 2.1 Electric Model Installation

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#### Installation instructions for your new

## Electric Dryer

*Before you begin - Read these instructions completely and carefully.*

*IMPORTANT - Save these instructions for local inspector's use.*

*IMPORTANT - OBSERVE ALL GOVERNING CODES AND ORDINANCES.*

*Note to Installer - Be sure to leave these instructions with the Consumer.*

*Note to Consumer - Keep these instructions with your Owner's Manual for future reference.*



#### **WARNING - POTENTIAL FIRE AND SHOCK HAZARD**

- Use only rigid metal or flexible metal 4" diameter ductwork for exhausting to the outdoors. Never use plastic or other combustible ductwork.
- This appliance must be properly grounded and installed as described in these instructions.
- Do not install or store appliance in an area where it will be exposed to water/weather.
- The National Fuel Gas Code restricts installations of gas appliances in garages. They must be 18" off the ground and protected by a barrier from vehicles.

#### **Important**

- Exhausting the dryer to the outdoors is strongly recommended to prevent large amounts of moisture and lint from being blown into the room.
- Service information and wiring diagram located in control console.

#### **Tools you will need**

- Slip joint pliers
- Screwdrivers
- 3/8" nut driver

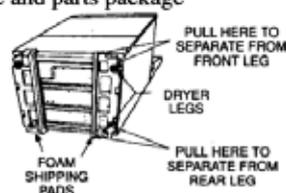
### Installation

#### **Step 1**

Remove and save literature and parts package from dryer drum

#### **Step 2**

Lay carton corner posts or two 2"x4" boards on floor. Lay dryer on its back.



#### **Step 3**

Remove foam shipping pads by pulling at sides and breaking away from dryer legs. Be sure to remove all foam pieces from around legs.

#### **Step 4**

Stand dryer upright

#### **Step 5**

Move dryer to desired operating location.

#### **Step 6**

Adjust leveling legs to match washer height. Dryer must be level and rest firmly on all four leveling legs.

#### **Step 7**

Connect to power supply. (See ELECTRICAL CONNECTION INFORMATION section of this instruction.)

#### **Step 8**

Connect external exhaust or deflector. (See EXHAUST INFORMATION section of this instruction.)

#### **Step 9**

Check for proper operation.

#### **Step 10**

Place Owner's manual and installation instructions in a location where they may be found by the customer.

## Electrical Connection Information

**⚠ WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR PERSONAL INJURY.**

- DO NOT USE AN EXTENSION CORD WITH THIS APPLIANCE.
- THIS APPLIANCE MUST BE PROPERLY GROUNDED.

Dryer must be electrically grounded in accordance with local codes and ordinances, or in the absence of local codes, in accordance with the NATIONAL ELECTRICAL CODE, ANSI/NFPA NO. 70.

### Electrical requirements:

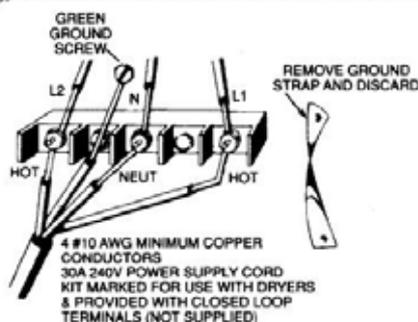
- This dryer must be connected to an individual branch circuit, protected by the required time-delay fuses or circuit breakers. 208V or 240V installation 30 amps.
- If the electric supply does not meet the above specifications, call a licensed electrician.

### Grounding instructions

- This appliance 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.

### Connecting Dryer Using 4-Wire Connection (Must Be Used For Mobile Home Installation)

NOTE: Effective January 1, 1996: The National Electric Code requires that new construction (not existing) utilize a 4 wire connection to an electric dryer.



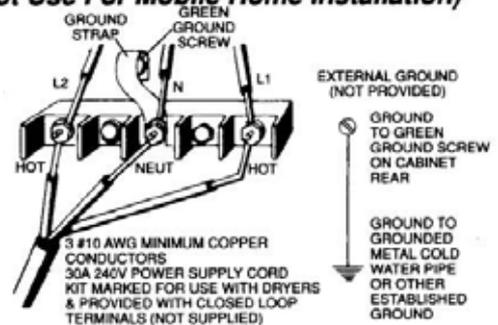
1. Remove the access plate near the cord set entry hole.
2. Remove and discard ground strap and nut securing ground strap.
3. Bring power supply through cord set entry hole.

**CAUTION: DO NOT REMOVE INNER NUTS ON TERMINAL BLOCK TO ASSEMBLE POWER SUPPLY.**

4. Using second set of nuts supplied, connect power supply as follows:
  - A. 2 hot lines to outer studs (brass colored) of terminal blocks.
  - B. Neutral line to center stud (silver colored) of terminal block.
5. Attach ground wire of the power supply to the green grounding screw above terminal block.
6. Properly secure cord set or cable to the entry hole with U.L. recognized strain relief.
7. Replace access plate.
  - Typical 30 amp receptacle



### Connecting Dryer Using 3-Wire Connection (Do Not Use For Mobile Home Installation)



1. Remove the access plate near the cord set entry hole.
2. Bring power supply through cord set entry hole.

**CAUTION: DO NOT REMOVE INNER NUTS ON TERMINAL BLOCK TO ASSEMBLE POWER SUPPLY.**

3. Using second set of nuts supplied, connect power supply as follows:
  - A. 2 hot lines to outer studs (brass colored) of terminal blocks.
  - B. Neutral line to center stud (silver colored) of terminal block.
4. Be sure ground strap is connected to neutral (center) terminal of block and to ground screw on block mounting bracket.
5. Properly secure cord set or cable to the entry hole with U.L. recognized strain relief.
6. Replace access plate.
  - Typical 30 amp receptacle



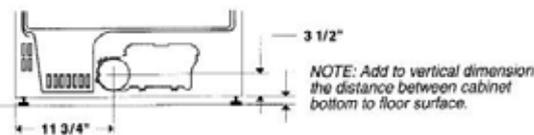
### Exhaust information

**WARNING: TO REDUCE THE RISK OF FIRE AND PERSONAL INJURY:**

- Use only metal duct for exhausting dryer to outdoor.
- Do not terminate exhaust in a chimney, any gas vent, under an enclosed floor (crawl space), or into an attic. The accumulated lint could create a fire hazard.
- Provide an access for inspection and cleaning of the exhaust system, especially at turns. Inspect and clean at least once per year.
- Never terminate the exhaust into a common duct with a kitchen exhaust. A combination of lint and grease could create a fire hazard.
- Do not obstruct incoming or exhausted air.

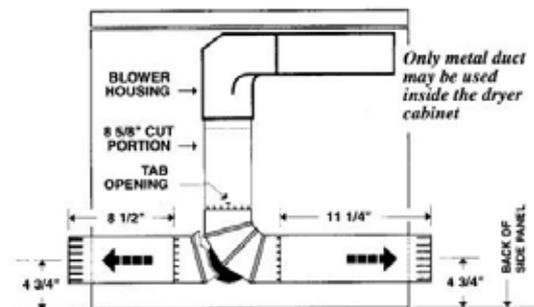
#### Rear Exhaust Location

This dryer comes ready for rear exhausting.



#### Steps to change Dryer to Side or Bottom Exhaust

1. Remove Access Panel.
2. Straighten up the tab inside the exhaust duct at the back of the appliance, then remove the internal duct connected to the blower housing.
3. Cut the duct as shown.
4. Reconnect and secure the cut portion of the duct to the blower housing. Make sure that the tab portion is at the bottom of the duct.



NOTE: To secure the duct, insert the tab (located on the appliance base) in the opening and bend it.

5. Detach and remove the desired knockout.
6. Use standard metal elbow and duct to exhaust.
7. Cover the opening at the back with the plate provided on the back of the appliance.

### Exhaust Length

The MAXIMUM ALLOWABLE length of the exhaust system depends upon the type of duct, number of turns, the type of exhaust hood (wall cap), and all conditions noted below. The maximum allowable length for both rigid and flexible metal duct is shown in the table below. More than two 90° turns are not recommended.

FOR ELECTRIC DRYER ONLY	RECOMMENDED MAXIMUM LENGTH			
	Weather Hood Type			
	Recommended		Use only for short run installations	
	↔ 4"		↔ 2 1/2"	
No. of 90° elbows	Rigid	Flexible Metal	Rigid	Flexible Metal
0	90 Feet	55 Feet	60 Feet	45 Feet
1	60 Feet	40 Feet	45 Feet	30 Feet
2	45 Feet	30 Feet	35 Feet	20 Feet
3	35 Feet	20 Feet	25 Feet	15 Feet
4	25 Feet	15 Feet	15 Feet	10 Feet

\* Do not use non metallic flexible duct.

#### Hood or Wall Cap

- Terminate in a manner to prevent back drafts or entry of birds or other wildlife.
- Termination should present minimal resistance to the exhaust airflow and should require little or no maintenance to prevent clogging.
- Never install screen over exhaust duct.
- Wall caps must be installed at least 12" above ground level or any other obstruction with the opening pointed down.
- If roof vents or louvered plenums are used, they must be equivalent to a 4" dampered wall cap in regard to resistance to airflow, prevention of back drafts and maintenance required to prevent clogging.

#### Separation of Turns

For best performance, separate all turns by at least 4 ft. of straight duct, including distance between last turn and dampered wall cap.

#### Turns Other Than 90°

- One turn of 45° or less may be ignored.
- Two 45° turns should be treated as one 90°.
- Each turn over 45° should be treated as one 90°.

#### Sealing of Joints

- All joints should be tight to avoid leaks. The male end of each section of duct must point away from the dryer.
- Do not assemble the duct work with fasteners that extend into the duct. They will serve as a collection point for lint.
- Duct joints can be made air and moisture-tight by wrapping the overlapped joints with duct tape.

### **Exhaust Information (cont.)**

#### **Insulation**

- Ductwork which runs through an unheated area or is near an air conditioning duct should be insulated to reduce condensation and lint build up.

#### **Parts Available from Local Service Organization**

##### **• Rigid Metal Duct Components**

- 4" X 1' Duct
- 4" X 2' Duct
- 4" Elbow
- 4" Aluminum Hood
- Exhaust Deflector

##### **• Flexible Metal Duct Components**

- Kit WX8X66 7' Aluminum duct, 4" hood and 2 clamps.
- 7' Aluminum Flexible Duct
- 4" Clamps (2)
- 4" Aluminum Hood
- UL-Listed clothes dryer transition duct.

#### **Inside Exhausting**

**NOTE: MOBILE HOME, BEDROOM, BATHROOM, ALCOVE OR CLOSET INSTALLATIONS MUST BE EXHAUSTED TO THE OUTDOORS.**

**OTHER INSTALLATION:** If the installation makes it impossible to exhaust to the outdoors, a 4" exhaust deflector (WE25X28) must be installed. A clearance of 8" is required between rear of dryer and the wall, and deflector should be pointing up.

**NOTE: EXHAUSTING TO THE OUTDOORS IS STRONGLY RECOMMENDED. EXHAUSTING INDOORS MAY CAUSE LINT ACCUMULATION, AND MOISTURE DAMAGE INCLUDING MOLD AND MILDEW.**

### **Special Installation Requirements**

#### **Alcove or Closet Installation**

- If your dryer is approved for installation in an alcove or closet it will be stated on a label on the dryer back.
- The dryer must be exhausted to the outdoors.
- Minimum clearances between dryer cabinet and adjacent walls or other combustible surfaces are:
  - 0" clearance either side
  - 3" front and rear
- Minimum vertical space from floor to overhead cabinets, ceilings, etc. is 52".
- Closet doors must be louvered or otherwise ventilated and must contain at least 60 square inches open area equally distributed. If this closet contains both a washer and a dryer, doors must contain 120 square inches of open space equally distributed.

#### **Mobile or Manufactured Home Installation**

- Installation must conform to Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 32-80.
- The dryer must be exhausted to the outdoors with the termination securely fastened to the mobile home structure. (See EXHAUST INFORMATION section).
- The exhaust **MUST NOT** be terminated beneath the mobile home.
- The exhaust material **MUST BE METAL**.
- For Electrical Connections see "CONNECTING DRYER USING 4-WIRE CONNECTIONS".

**SERVICING:** Consideration must be given to provide adequate clearances for installation and servicing.



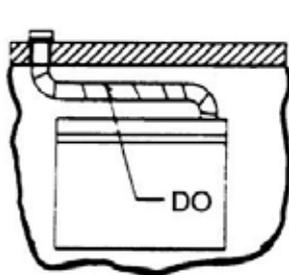
**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation (verify proper operation after servicing/installation).

### **Additional Installation Instructions**

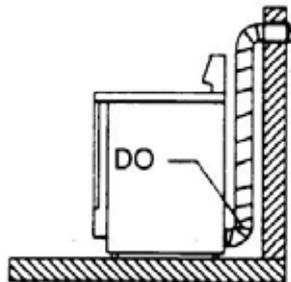
If all rigid metal duct cannot be used, then flexible all metal venting can be used, but it will reduce the maximum recommended duct length. In special installations when it is impossible to make a connection with the above recommendations, then **UL listed clothes dryer transition duct** may be used as transition venting between the dryer and wall connection only. The use of this ducting will affect dry time.

If **flexible** transition duct is necessary, only UL listed duct identified for use with clothes dryers is approved. The following directions **must be followed**.

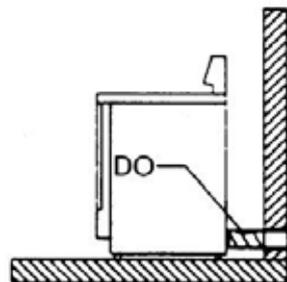
- Use the Shortest Length Possible.
- Stretch the Duct to its Maximum Length.
- Do Not Crush or Collapse.
- Never Use Transition Duct Inside the Wall, or Inside the Dryer.
- Avoid Resting the Duct on Sharp Objects.
- Venting Must Conform to Local Building Codes.



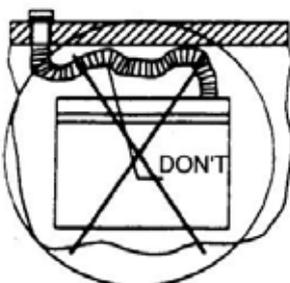
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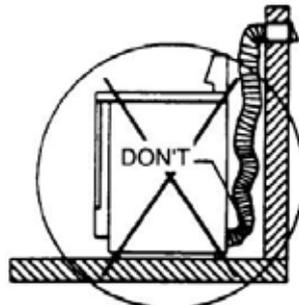
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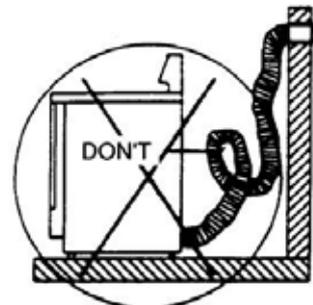
CORRECT



INCORRECT



INCORRECT



INCORRECT

**NEVER USE PLASTIC OR OTHER COMBUSTIBLE DUCTWORK**

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

## 2.2 Gas Model Installation

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### Installation instructions for your new

## Gas Dryer

Before you begin - Read these instructions completely and carefully.

**IMPORTANT** - Save these instructions for local inspector's use.

**IMPORTANT** - OBSERVE ALL GOVERNING CODES AND ORDINANCES.

Note to Installer - Be sure to leave these instructions with the consumer.

Note to Consumer - Keep these instructions with your Owner's Manual for future reference.



### **WARNING - POTENTIAL FIRE AND SHOCK HAZARD**

- Use only rigid metal or flexible metal 4" diameter ductwork for exhausting to the outdoors. Never use plastic or other combustible ductwork.
- This appliance must be properly grounded and installed as described in these instructions.
- Do not install or store appliance in an area where it will be exposed to water/weather.
- The National Fuel Gas Code restricts installations of gas appliances in garages. They must be 18" off the ground and protected by a barrier from vehicles.

#### **Important**

- This dryer must be exhausted to the outdoors.
- Service information and wiring diagram located in control console.

#### **Tools you will need**

- Slip joint pliers
- Screwdriver

## Installation

### **Step 1**

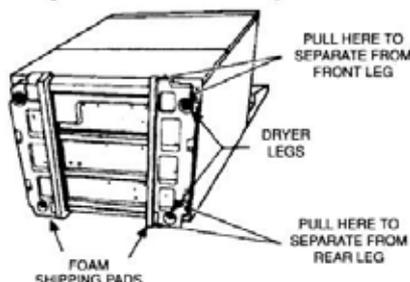
Remove and save literature and parts package from dryer drum.

### **Step 2**

Lay carton corner post or two 2"x4" boards on the floor. Lay dryer on its back.

### **Step 3**

Remove foam shipping pads by pulling at sides and breaking away from dryer legs. Be sure to remove all foam pieces from around legs.



### **Step 4**

Stand dryer upright.

### **Step 5**

Move dryer to desired operating location.

### **Step 6**

Adjust leveling legs to match washer height. Dryer must be level and rest firmly on all four leveling legs.

### **Step 7**

Connect gas supply. (See GAS CONNECTION INFORMATION section of this instruction.)

### **Step 8**

Connect to power supply. (See ELECTRICAL CONNECTION INFORMATION section of this instruction.)

### **Step 9**

Connect external exhaust. (See EXHAUST INFORMATION section of this instruction.)

- Check for proper operation.

### **Step 10**

Place Owner's Manual and Installation Instructions in a location where they may be found by the customer.

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### Electrical Connection Information

**⚠ WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND PERSONAL INJURY:**

**DO NOT USE AN EXTENSION CORD OR AN ADAPTER PLUG WITH THIS APPLIANCE.**  
**DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE THE THIRD GROUNDING PRONG FROM THE POWER CORD.**

Dryer must be electrically grounded in accordance with local codes and ordinances, or in the absence of local codes, in accordance with the NATIONAL ELECTRICAL CODE, ANSI/NFPA NO. 70.

#### Electrical Requirements

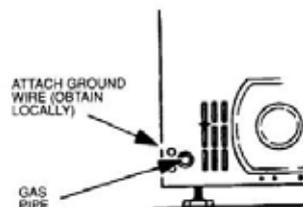
- This appliance must be supplied with 120V, 60Hz, and connected to a properly grounded branch circuit, protected by a 15 or 20 amp circuit breaker or time-delay fuse.

If the electric supply provided does not meet the above specifications, it is recommended that a licensed electrician install an approved outlet.



#### External Ground (if required)

An external ground wire, (not provided), which meets local codes, may be added by attaching to the green ground screw on the rear of the dryer, and to grounded metal cold water pipe or other established ground.



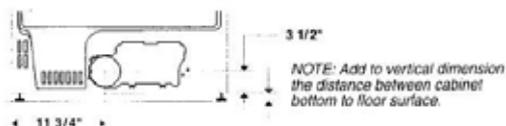
### Exhaust information

**⚠ WARNING: TO REDUCE THE RISK OF FIRE AND PERSONAL INJURY:**

- This dryer must be exhausted to the outdoors.
- Use only metal duct for exhausting dryer outdoors.
- Do not terminate exhaust in a chimney, any gas vent, under an enclosed floor (crawl space), or into an attic. The accumulated lint could create a fire hazard.
- Provide an access for inspection and cleaning of the exhaust system, especially at turns. Inspect and clean at least once per year.
- Never terminate the exhaust into a common duct with a kitchen exhaust. A combination of lint and grease could create a fire hazard.
- Do not obstruct incoming or exhausted air.

#### Rear Exhaust Location

This dryer comes ready for rear exhausting.



#### Steps to change Dryer to Left Side or Bottom Exhaust

(NOTE: THE DRYER CANNOT BE EXHAUSTED THRU RIGHT SIDE OF DRYER)

1. Remove Access Panel.



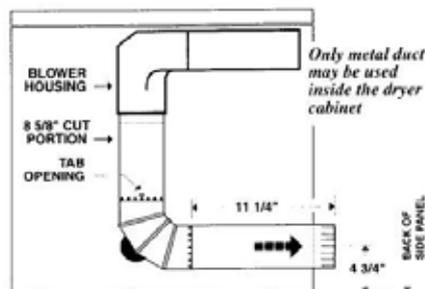
2. Straighten up the tab inside the exhaust duct at the back of the appliance, then remove the internal duct connected to the blower housing.



3. Cut the duct as shown.



4. Reconnect and secure the cut portion of the duct to the blower housing. Make sure that the tab portion is at the bottom of the duct.



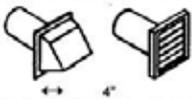
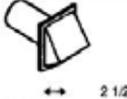
NOTE: To secure the duct, insert the tab (located on the appliance base) in the opening and bend it.

5. Detach and remove the desired knockout.
6. Use standard metal elbow and duct to exhaust.
7. Cover the opening at the back with the plate provided on the back of the appliance.

### Exhaust Information (cont.)

#### Exhaust Length

The MAXIMUM ALLOWABLE length of the exhaust system depends upon the type of duct, number of turns, the type of exhaust hood (wall cap), and all conditions noted below. The maximum allowable length for both rigid and flexible metal duct is shown in the table below.

No. of 90° elbows	RECOMMENDED MAXIMUM LENGTH			
	Weather Hood Type			
	Recommended		Use only for short run installations	
	 4"		 2 1/2"	
	Rigid	Flexible Metal	Rigid	Flexible Metal
0	45 Feet	30 Feet	30 Feet	15 Feet
1	35 Feet	20 Feet	20 Feet	10 Feet
2	25 Feet	10 Feet	10 Feet	
3	15 Feet			

\* Do not use non metallic flexible duct.

#### Parts Available from Local Service Organization

##### • Rigid Metal Duct Components

- 4" X 1' Duct
- 4" X 2' Duct
- 4" Elbow
- 4" Aluminum Hood

##### • Flexible Metal Duct Components

- Kit WX8X66 7' Aluminum Duct, 4" hood and two clamps.
- 7' Aluminum Flexible Duct
- 4" Clamps (2)
- 4" Aluminum Hood
- UL-Listed Clothes Dryer Transition Duct

#### Exhaust System Check List

##### HOOD or WALL CAP

- Terminate in a manner to prevent back drafts or entry of birds or other wildlife.
- Termination should present minimal resistance to the exhaust air flow and should require little or no maintenance to prevent clogging.
- Never install screen over exhaust duct.
- Wall caps must be installed at least 12" above ground level or any other obstruction with the opening pointed down.
- If roof vents or louvered plenums are used, they must be equivalent to a 4" dampered wall cap in regard to resistance to air flow, prevention of back drafts and maintenance required to prevent clogging.

##### SEPARATION OF TURNS

For best performance, separate all turns by at least 4 ft. of straight duct, including distance between last turn and dampered wall cap.

##### TURNS OTHER THAN 90°

- One turn of 45° or less may be ignored.
- Two 45° turns should be treated as one 90°.
- Each turn over 45° should be treated as one 90°.

##### SEALING OF JOINTS

- All joints should be tight to avoid leaks. The male end of each section of duct must point away from the dryer.
- Do not assemble the duct work with fasteners that extend into the duct. They will serve as a collection point for lint.
- Duct joints can be made air and moisture-tight by wrapping the overlapped joints with duct tape.

##### INSULATION

Duct work which runs through an unheated area or is near an air conditioning duct, should be insulated to reduce condensation and lint build up.

## Gas Connection Information

Installation must conform with local codes and ordinances, or in their absence the NATIONAL FUEL GAS CODE, ANSI Z223.1.

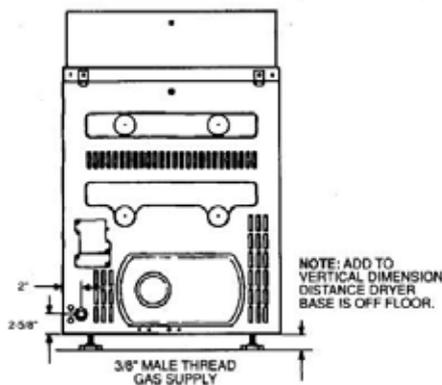
### Gas Valve and Burner

This gas dryer is equipped with a Valve & Burner Assembly for use only with natural gas. Using a separate conversion kit, your local Service organization can convert this dryer for use with gases listed on the rating plate. ALL CONVERSIONS MUST BE MADE BY PROPERLY TRAINED AND QUALIFIED PERSONNEL AND IN ACCORDANCE WITH LOCAL CODES AND ORDINANCE REQUIREMENTS.

### Gas Supply

- Supply line is to be 1/2" rigid pipe, (3/8" copper tubing may be used if the dryer is operated on Liquefied Petroleum gas), and equipped with an accessible shutoff within 6 feet of, and in the same room with the dryer. Increase pipe size for runs longer than 20 feet.

- Dryer Gas Supply Location.



- Pipe dope must be resistant to the action of L.P. gases and applied sparingly to all male threads.
- If local codes permit, it is recommended the dryer be connected to the gas supply with a flexible metal connector.

**⚠ WARNING:** Never reuse old flexible connectors. The use of old flexible connectors can cause gas leaks and personal injury. Always use **NEW** flexible connectors when installing a gas appliance.

- A 1/8" National Pipe Taper thread plugged tapping, accessible for test gauge connection, must be installed immediately upstream of the gas supply connection to the dryer. Contact your local gas utility should you have questions on the installation of the plugged tapping.

- Protection of Dryer During Pressure Test:

- When test pressure is in excess of 1/2 PSIG (3.45kPa), disconnect dryer from gas supply line prior to test.

- When test pressure is equal to or less than 1/2 PSIG (3.45kPa), close the shutoff valve upstream of the dryer, prior to test.

- After gas supply is connected to dryer, open external shutoff valve.

### Leak Test

Check all connections for leaks with soapy solution or equivalent. Leak test solutions must not contain ammonia which could cause damage to brass fittings or pipe. CAUTION: NEVER USE AN OPEN FLAME TO TEST FOR GAS LEAKS.

## **Special Installation Requirements**

### ***Alcove or Closet Installation***

- If your dryer is approved for installation in an alcove or closet it will be stated on a label on the dryer back.
- The dryer **MUST** be exhausted to the outdoors. See EXHAUST INFORMATION section.
- Minimum clearances between dryer cabinet and adjacent walls or other surfaces are:
  - 0" either side
  - 3" front and rear
- Minimum vertical space from floor to overhead cabinets, ceilings, etc. is 52".
- Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If this closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.
- The closet should be vented to the outdoors to prevent gas pocketing in case of a gas leak in the supply line.
- No other fuel-burning appliance shall be installed in the same closet with the dryer.

### ***Bathroom or Bedroom Installation***

- The dryer **MUST** be exhausted to the outdoors. See EXHAUST INFORMATION section.
- The installation must conform with the local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.

### ***Minimum Clearances other than Alcove or Closet Installations***

- Minimum clearances to combustible surfaces:
  - 0" clearance both sides and 1" rear.

### ***Mobile or Manufactured Home Installation***

- Installation must conform to the MANUFACTURED HOME CONSTRUCTION & SAFETY STANDARD, TITLE 24 CFR, PART 32-80, or when such standard is not applicable, with AMERICAN NATIONAL STANDARD FOR MOBILE HOMES, ANSI/NFPA NO. 501B.
- The dryer must be exhausted to the outdoors with the termination securely fastened to the mobile home structure. (See EXHAUST INFORMATION section.)
- The exhaust **MUST NOT** be terminated beneath a mobile or manufactured home.
- The exhaust duct material **MUST BE METAL**.
- KIT 14-D3A6-33 **MUST** be used to attach dryer securely to the structure.

**SERVICING:** Consideration must be given to provide adequate clearances for installation and servicing.



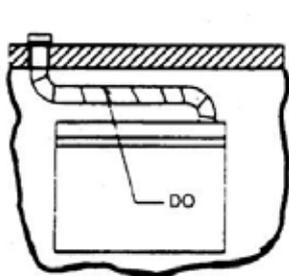
**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation (verify proper operation after servicing/installation).

### ***Additional Installation Instructions***

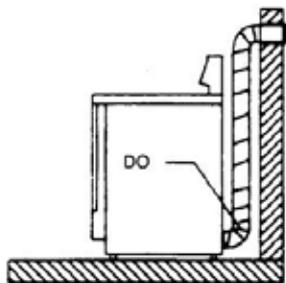
If all rigid metal duct cannot be used, then flexible all metal venting can be used, but it will reduce the maximum recommended duct length. In special installations when it is impossible to make a connection with the above recommendations, then UL listed **clothes dryer transition duct** may be used as transition venting between the dryer and wall connection only. The use of this ducting will affect dry time.

If **flexible** transition duct is necessary, only UL listed duct identified for use with clothes dryers is approved. The following directions **must be followed**.

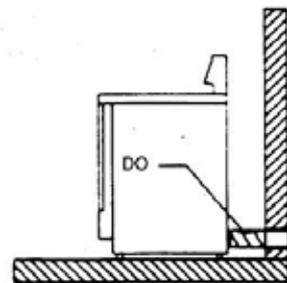
- Use the Shortest Length Possible.
- Stretch the Duct to its Maximum Length.
- Do Not Crush or Collapse.
- Never Use Transition Duct Inside the Wall, or Inside the Dryer.
- Avoid Resting the Duct on Sharp Objects.
- Venting Must Conform to Local Building Codes.



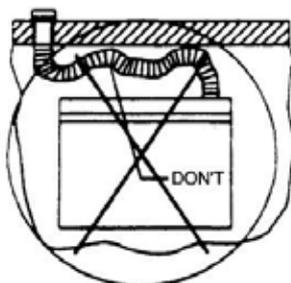
CORRECT



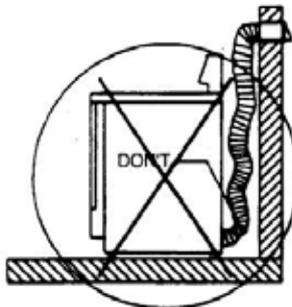
CORRECT



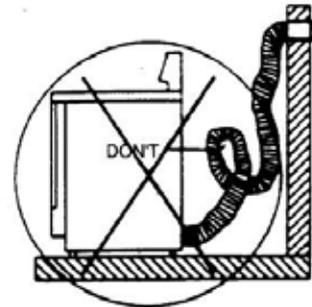
CORRECT



INCORRECT



INCORRECT



INCORRECT

**NEVER USE PLASTIC OR OTHER COMBUSTIBLE DUCTWORK**

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

### 3 SPECIFICATIONS

#### 3.1 DE09 and DE60FA Specifications

Model Naming Convention DE09	DE 09	Dryer Electric Iteration
Model Naming Convention DE60FA	DE 60 F A	Dryer Electric 6 CU FT Front Loader Auto Timer
Colour	White	
Capacity	6 cu ft	
Heat Source	Electric	
Control Type	Electronic + Timer	
Drum Material	Stainless Steel	
Dimensions	Height 40" Width 27" Depth 27" Depth to door open 51 3/4"	
Supply Voltage	120 + 240v 120 + 208V	
Wattage	With 240 V Supply	5600w
	With 208 V Supply	4400w
Amperage	With 240 V Supply	24amps
	With 208 V Supply	22amps
Drum Rotation	Anti-clockwise only	
Drum Speed	47-51 RPM	
Door Hinging	R/hand from factory but reversible	
Exhaust Duct Diameter	4"-100MM	
Thermostat Temps +/- 5°	Open	Closed
Drum Outlet	135F/57C	125F/52C
Control Inlet	210F/99C	180F/82C
Hi Limit	315F/157C	250F/121C
Safety	210F/99C	180F/82C
Number of elements	2	
Element Type	Wire Coil	
Element Voltage	208/240 Volts	
Element resistance	19.2Ω Each	
Motor Power	1/4 HP 186w	
Max Motor Amperage	4.8 amps	
Motor Voltage	110-120 Volts	

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### 3.2 DG09 and DG60FA Specifications

Model Naming Convention DG09	DG 09	Dryer Gas Iteration
Model Naming Convention DE60FA	DG 60 F A	Dryer Gas 6 CU FT Front Loader Auto Timer
Colour	White	
Capacity	6 cu ft	
Heat Source	Gas	
Control Type	Electronic + Timer	
Drum Material	Stainless Steel	
Dimensions	Height 40" Width 27" Depth 27" Depth to door open 51 3/4"	
Supply Voltage	120 Volts	
Amperage	7 Amps	
Drum Rotation	Anti-clockwise only	
Drum Speed	47-51 RPM	
Door Hinging	R/hand from factory but reversible	
Exhaust Duct Diameter	4"-100MM	
Thermostat Temps +/- 5°	Open	Closed
Drum Outlet	135F/57C	125F/52C
Control Inlet	210F/99C	180F/82C
Safety	300F/149C	260F/127C
Burner Heat	22000 BTU	
Coil Voltage	110/120 Volts	
Motor Power	1/4 HP 186w	
Max Motor Amperage	4.8 amps	
Motor Voltage	110-120 Volts	

### 3.3 Serial Plate Location

The serial Plate is located inside the door opening on the bottom right side. There is a secondary sticker on the rear of the dryer.



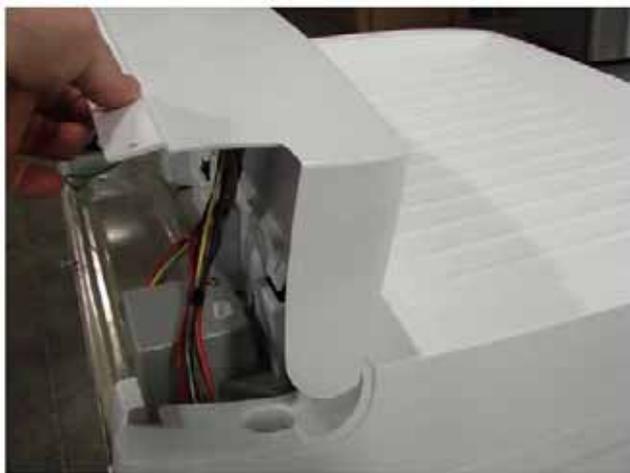
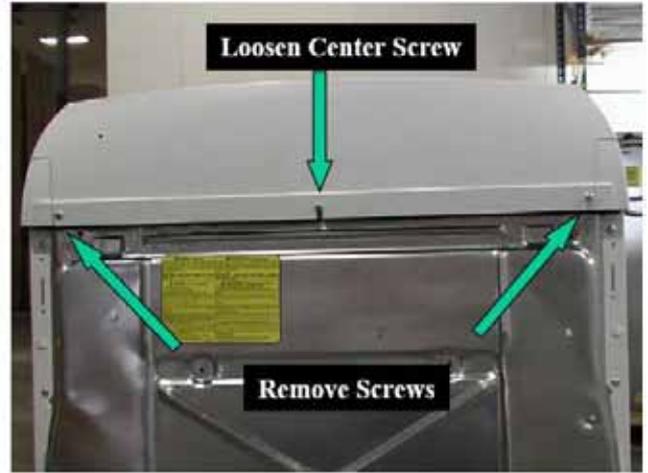
Main Serial Plate



Secondary Sticker

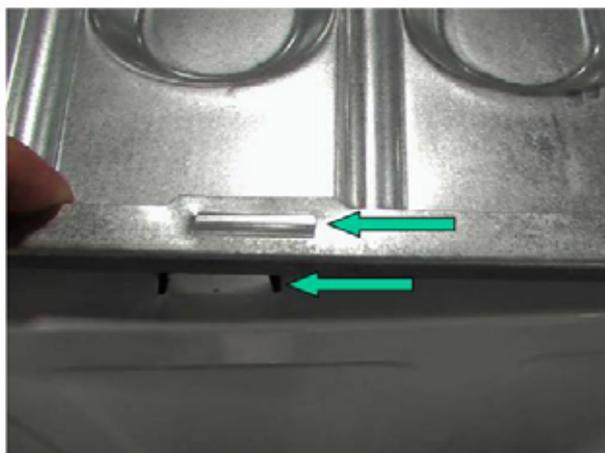
## 4 COMPONENT SERVICING

### 4.1 Top Disassembly

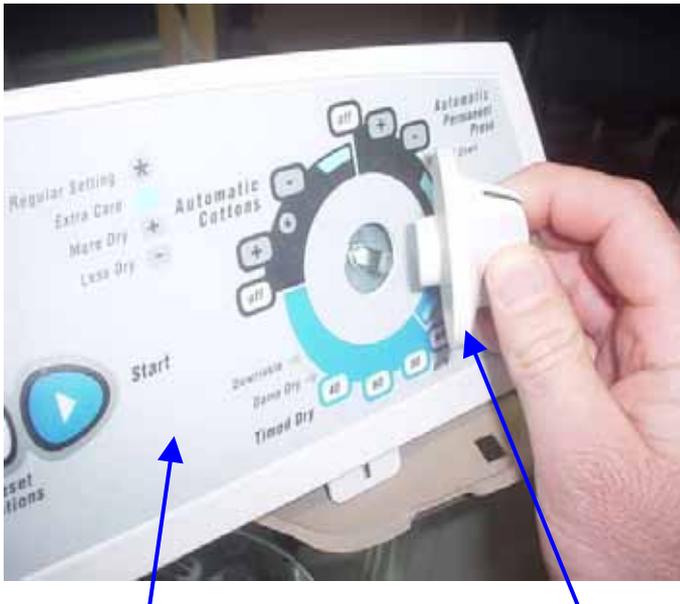


**Note:** when reinstalling Heat Shield, align Slots on heat shield with tabs on side panels

**Heat Shield Must lay flat prior to reinstalling Top Deck**



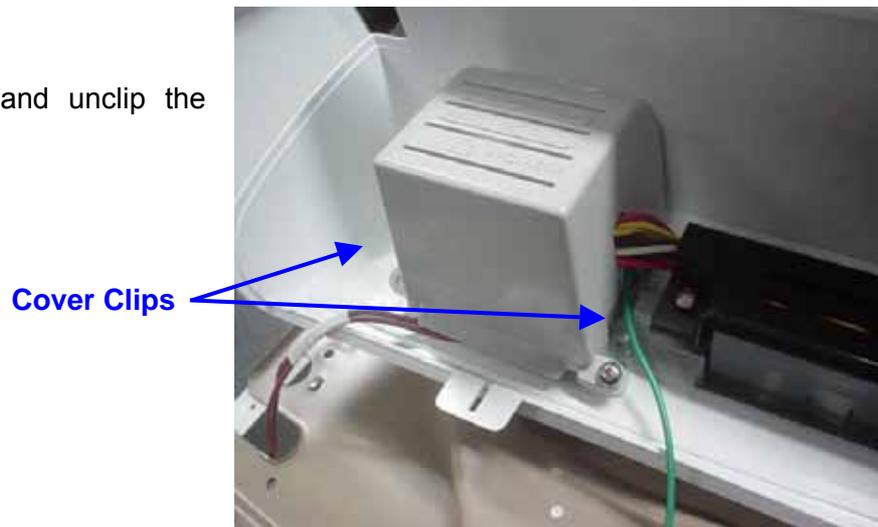
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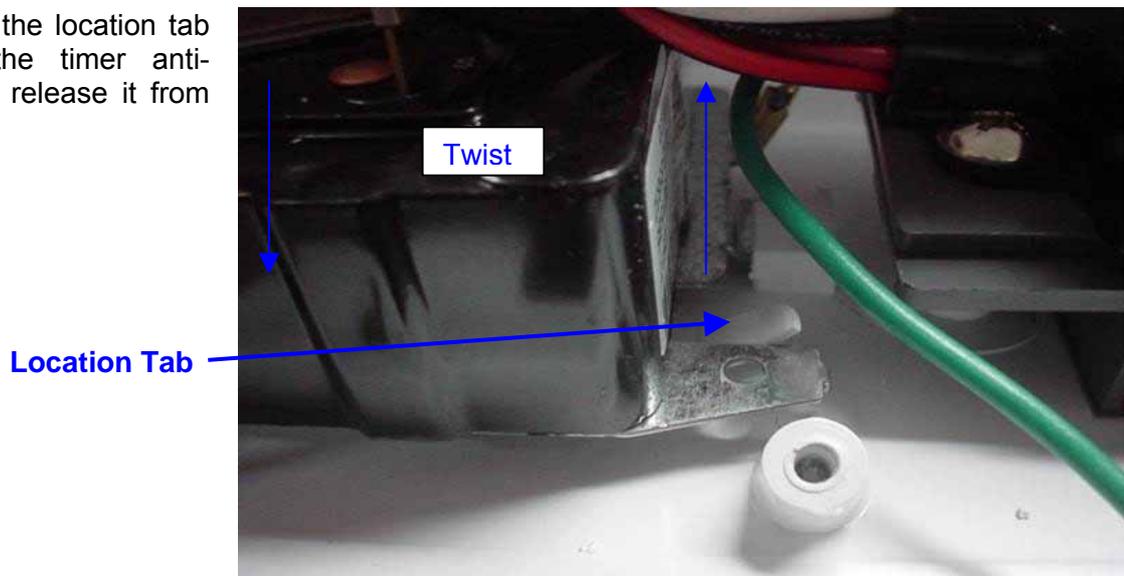
Touch Pad requires heat to remove. Timer knob just pulls off.

### 4.1.1 Timer Replacement

- Open the control box.
- Pull off the control knob.
- Remove the cover screw and unclip the timer cover.

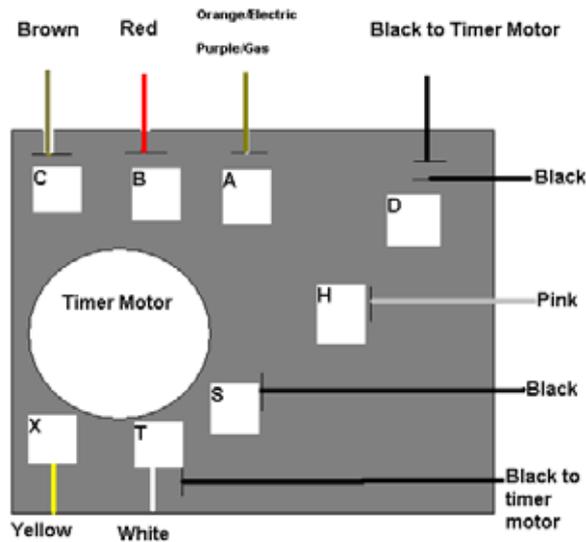


Press down the location tab and twist the timer anti-clockwise to release it from the console.



Replace the wires from the old timer to the new timer wire for wire. If you think you have made a mistake fitting the wires, see the diagram below for the wiring locations on the timer.

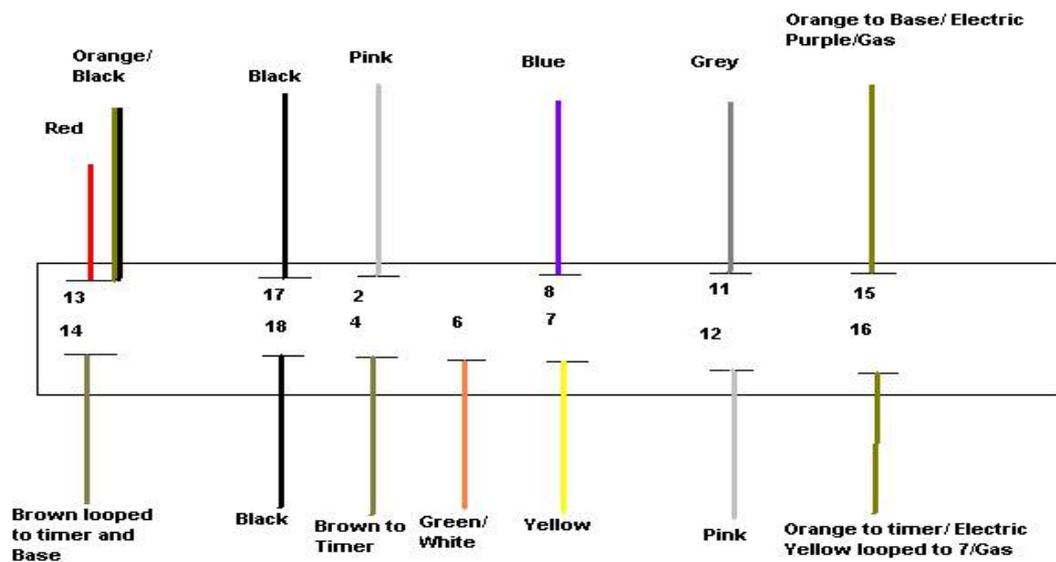
Reassembly is the reverse procedure.



### 4.1.2 Selector Switch Replacement

- Open the console.
- Undo the selector switch screws and remove switch assembly.
- Unclip the cover from the selector switch.
- Swap the wires from the old switch to the new switch, wire for wire.
- If you think you may have made a mistake fitting the wires, check against the diagram below.

Reassembly is the reverse procedure.



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### 4.1.3 Auto Dry PCB Replacement

- Open the console.
- Unscrew and remove the PCB cover.
- Disconnect the PCB connector.
- Unclip PCB from its holding clips.

Reassembly is the reverse procedure



### 4.2 Drum Removal

- Undo the console.
- Remove the top deck.
- Remove the heat shield.
- Remove the front panel and disconnect the door switch wiring.

Remove Screws from front corner of Front Panel



Door switch wiring

Belt Access

- Disconnect the belt from the motor. This can be done 2 ways:
- Remove the outlet duct from the back of the dryer, reach in through the duct hole in the back panel and disconnect the belt off the motor pulley.
- Reach in through the hole in the front brace under the drum and run the belt off the motor pulley.
- Pull the drum forward to disconnect the rear drum sleeve from cowl.
- Slide the drum out the front of the cabinet.

### 4.2.1 Drum Rear Sleeve And Shaft Replacement

- Remove the drum.
- Remove the o-ring from bearing shaft.
- Remove the sleeve.
- Remove the three securing screws from inside the drum to remove the shaft and deflector.

Reassembly is the reverse procedure.

O-ring  
Sleeve  
Deflector



### 4.2.2 Drum Baffle Replacement

- Remove the drum.
- Remove the screws for the baffle and remove the baffle.

Reassembly is the reverse procedure

### 4.2.3 Front Bearing Assembly and Front Panel Component Replacement



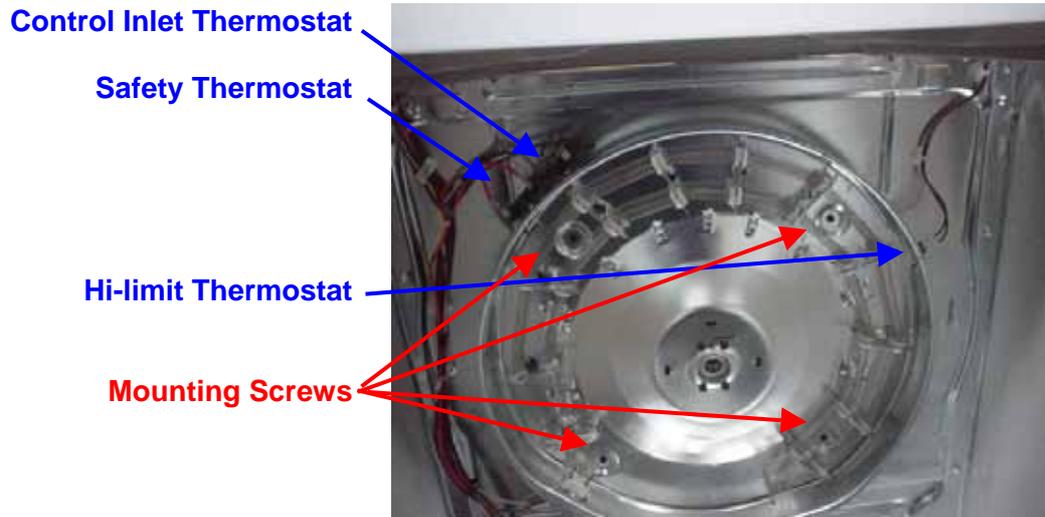
- Remove the front panel from the cabinet.
- Remove the light globe.
- Unclip the top of the bearing holder from the top of the front panel.
- Pull the holder away from the panel and pull upward to remove the holder.
- To remove the slides, pull out the unclipped side and then unclip the other side.
- To remove the drum felt, unhook the right side and pull out. The new felt is just pushed into place and hooked to the right.
- To remove the light socket, disconnect the terminals off the light switch and sensor plug, and then unscrew the socket.
- To remove the light switch, disconnect the terminals, keeping note of the positions, and unclip the switch.

Reassembly is the reverse procedure.

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## 4.3 Cowl Replacement and Components

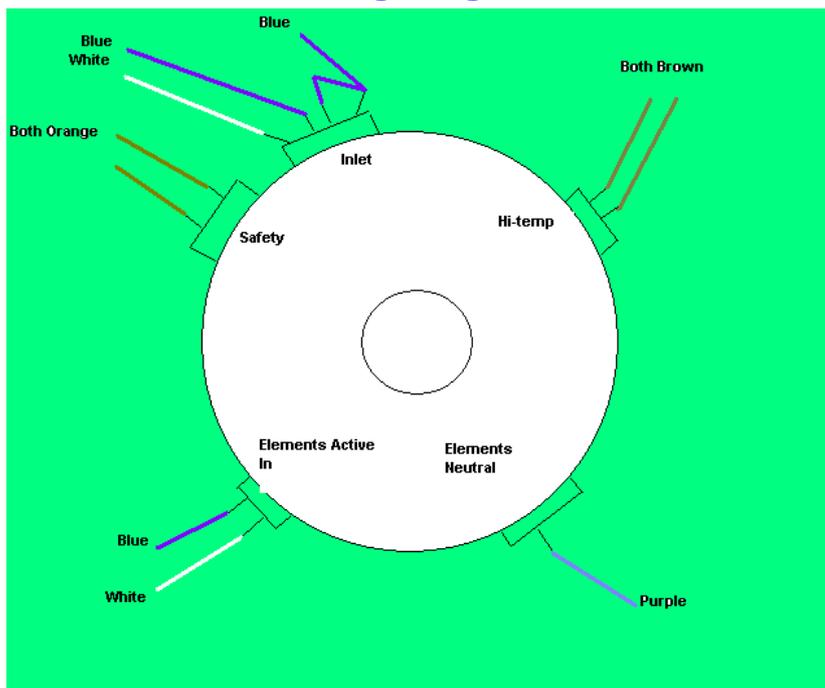
### 4.3.1 Electric Model Cowl



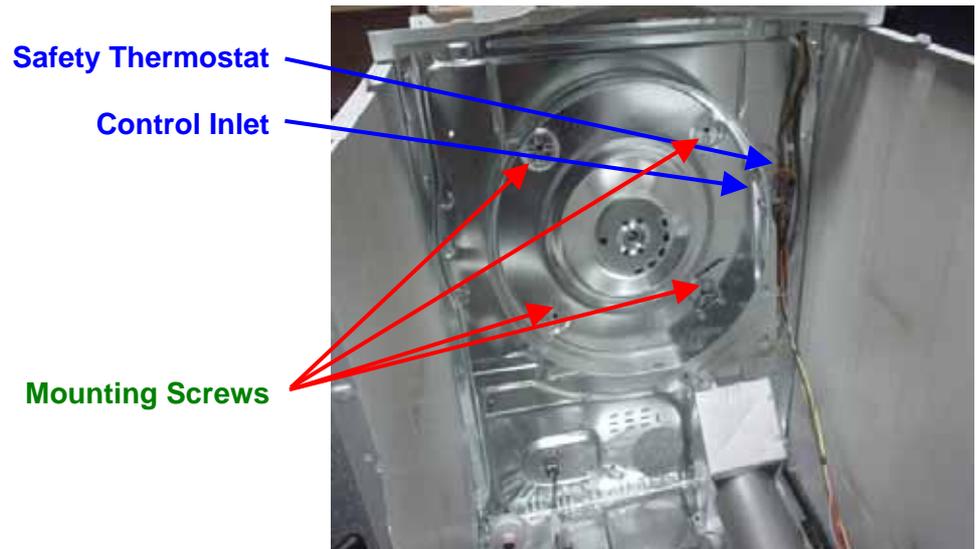
- Remove the drum
- To remove the thermostats, remove the thermostat screws and unclip the thermostat from the cowl.
- When replacing any thermostat, always replace wires in the same position as the original thermostat. If you think it is wired incorrectly, see the cowl wiring diagram.
- Remove the element wires from the bottom of the cowl, keeping note of their position. When refitting, if you think it is wired incorrectly, see the cowl wiring diagram.
- Undo the 4 mounting screws and remove the cowl from the rear panel.
- Undo the four screws that retain the drum-bearing retainer to remove the retainer.

Reassembly is the reverse procedure.

### 4.3.2 Electric Cowl Wiring Diagram



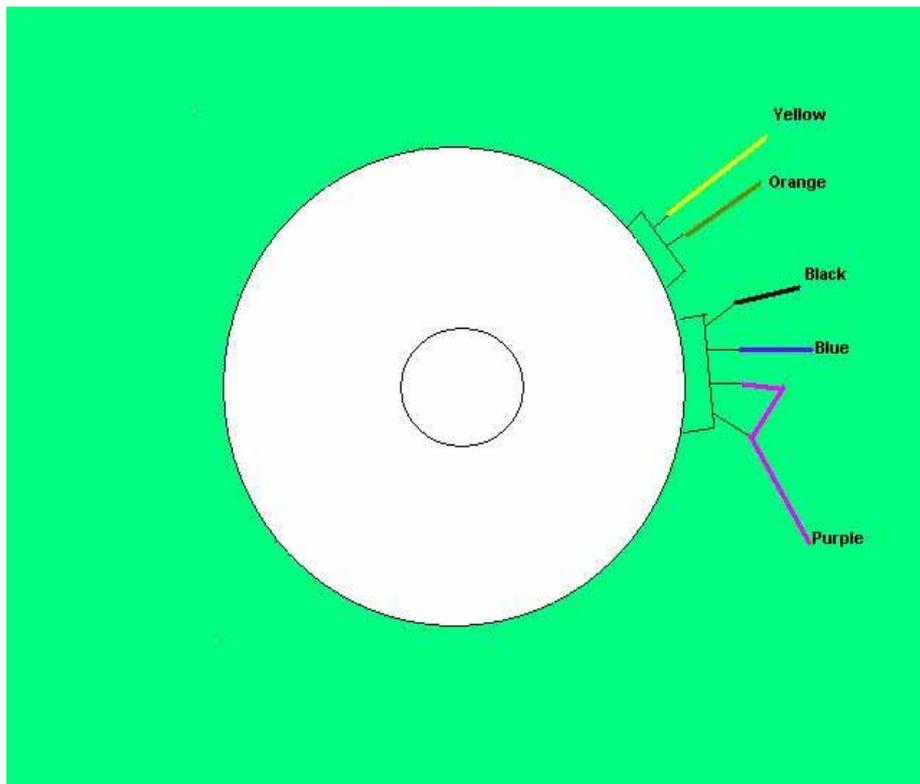
### 4.3.3 Gas Model Cowl



- Remove the drum.
- To remove the safety thermostat, remove the thermostat screws and unclip the thermostat from the cowl. To remove the control inlet thermostat, lever the leg of the thermostat towards the centre with a flat screwdriver, then remove.
- When replacing any thermostat, always replace wires in the same position as the original thermostat. If you think it is wired incorrectly, see the cowl wiring diagram.
- Undo the 4 mounting screws and remove the cowl from the rear panel.
- Undo the four screws that retain the drum-bearing retainer to remove the retainer.

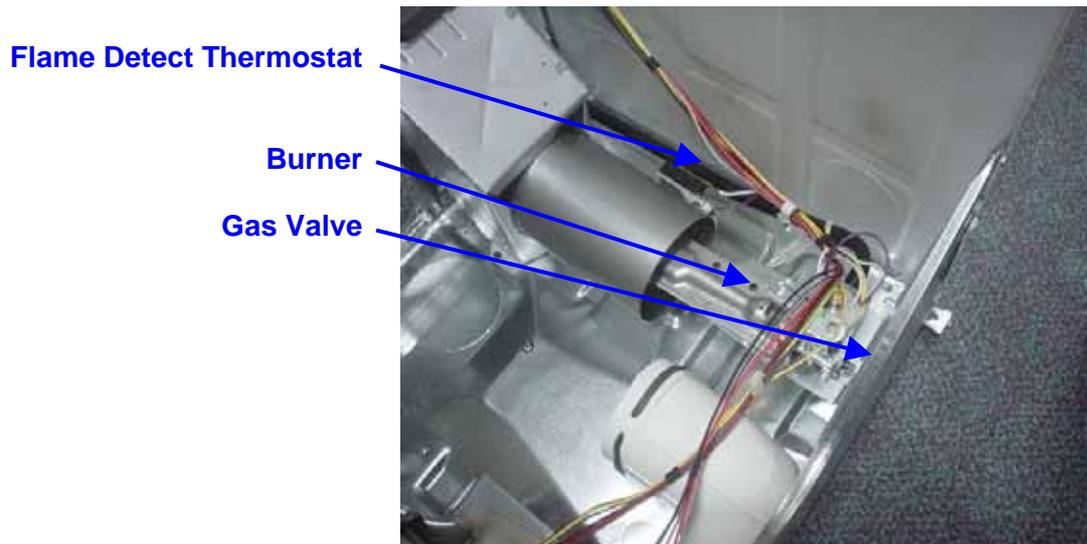
Reassembly is the reverse procedure.

### 4.3.4 Gas Cowl Wiring Diagram



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## 4.4 Gas Valve Assembly Replacement



- Disconnect the power and gas supply.
- Remove the drum assembly.
- Disconnect the wiring harnesses from the gas coils.
- Unscrew the bracket for the supply pipe from the back panel.
- Unscrew the valve bracket and feed the entire gas burner and valve assembly out through the opening in the front cabinet bracket.
- Remove the two screws securing the burner to the valve bracket.
- Remove the two screws securing the valve to the valve bracket.
- Remove the two screws securing the coils to the valve.

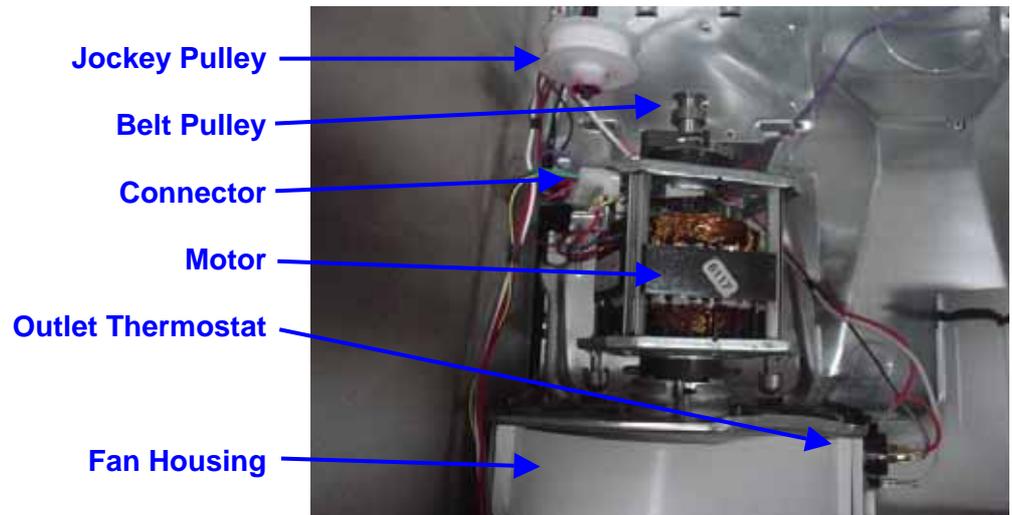
Reassembly is the reverse procedure.

### 4.4.1 Flame Detect Thermostat Replacement

- Disconnect the power supply.
- Remove the drum assembly.
- Unscrew and remove the burner.
- Disconnect the wires to the flame thermostat.
- Undo the 2 screws securing the combustion chamber.
- Turn the chamber to the left; undo the screws holding the thermostat and remove.

Reassembly is the reverse procedure.

## 4.5 Motor, Outlet Thermostat, Jockey Pulley and Belt Switch Replacement



- Disconnect the power supply.
- Remove the drum assembly.
- Remove the outlet screw securing the outlet thermostat. The thermostat can then be removed from the fan housing. Replace the wires in the same order.



- Remove the connector from the motor.
- Remove the two screws that secure the motor bracket to the base at the rear of the motor.
- Remove the two long black screws that secure the fan housing to the front bracket of the cabinet.
- Slide the motor and bracket assembly towards the rear of the cabinet.
- Remove the jockey pulley and arm assembly.
- Disconnect the wires to the belt switch.
- Disconnect the mains harness connector at the rear of the motor and feed out from under the motor.
- Feed the door and sensor harness through the cabinet bracket and out from under the motor.
- Remove the motor and bracket assembly from the cabinet.
- Remove the fan from the motor.
- Remove the screw from the front motor clamp.
- Remove the spring clip holding the back of the motor to the bracket.
- Remove the motor from the bracket.

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- The belt switch is mounted to the left side of the motor bracket and can be removed by removing its securing screws.
- Once the motor and bracket are removed from the cabinet, the fan housing can be unscrewed and removed.

Reassembly is the reverse procedure

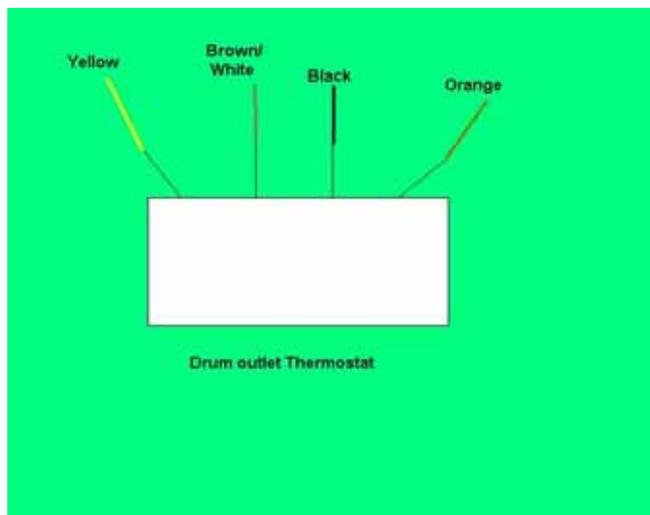
### 4.5.1 Motor and Outlet Thermostat Wiring Diagrams

**Motor Connector**

<b>M2</b> Black		<b>M1</b> Brown/ Yellow		<b>M6</b> Pink		<b>M4</b> Brown/ Yellow	<b>M5</b> Red	<b>Ground</b> Green
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**Motor Direct Connector**

<b>Black</b>	<b>Orange</b>	<b>Pink</b>
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## 4.6 Power Supply Connections

### 4.6.1 Electric Terminal Block

- Disconnect the power supply to the Dryer.
- Undo the nuts holding the mains cables to the terminal block and remove the wires.
- Undo the nuts holding the dryer supply cables keeping note of their positions.
- Remove the screws securing the terminal block and remove the block.

Reassembly is the reverse procedure. Make sure the wiring is re-installed correctly or major damage may be caused to the dryer. Refer to the installation instructions (Section 2).

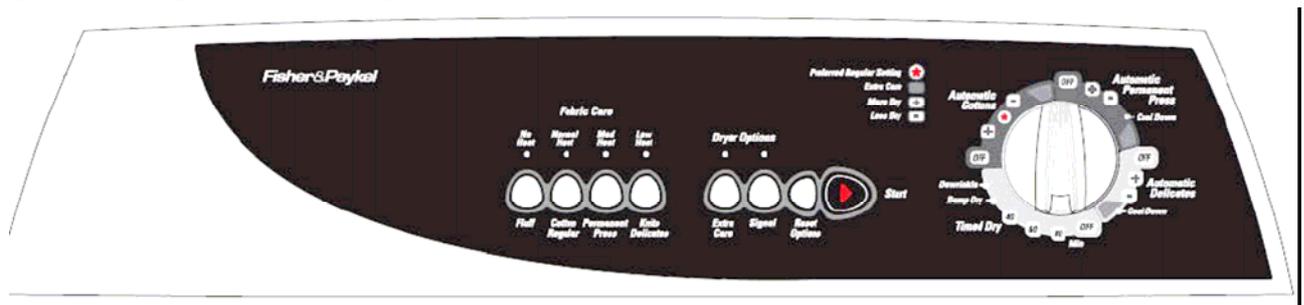
### 4.6.2 Gas and Electric Model Cable

(Electric cable supplied in Canada Only)

- Disconnect the power supply to the Dryer.
- Remove the power plug.
- Either remove the exhaust duct or remove the drum to access the cord connections.
- Disconnect the terminals or connector from the cable.
- Push the cable bush through the cabinet and remove the cable.

Reassembly is the reverse procedure.

## 5 OPERATION



### 5.1 Operating Instructions - Control Panel

#### Automatic Drying Cycles

(Cycle automatically senses dryness)

There are two automatic dryness levels: **MORE DRY (+)** and **LESS DRY (-)**.

These two settings dry the clothes to different degrees depending on the level of dryness desired.

**Automatic Permanent Press** – For synthetic blends.

Select **MORE DRY (+)** for heavier fabrics, **LESS DRY (-)** for light fabrics.

**Automatic Permanent Press** – For lingerie and special care fabrics.

Select **MORE DRY (+)** for larger fabrics, **LESS DRY (-)** for smaller fabrics.

**Automatic Cottons** – For cottons and most linens.

For most loads select the preferred Regular Setting marked with an \*. Set towards **MORE DRY (+)** for heavier fabrics, **LESS DRY (-)** for lighter fabrics.

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**Fabric Care Settings**

**FLUFF** – For items requiring drying without heat. Perfect for airing clothes or to freshen up garments that have been packed in a suitcase or drawer.

**COTTON REGULAR** – For drying general cottons such as sheets, sweats and knits. This cycle uses high heat to dry clothes quickly. Suitable for garments labelled “tumble dry”.

**PERMANENT PRESS** – For drying lightweight fabrics. A medium heat is used to reduce wrinkles. Ideal for lightweight cottons, casuals and items labelled “tumble dry with a medium heat”. This cycle automatically selects the DEWRINKLE option to reduce wrinkles.

**KNITS DELICATES** – For heat sensitive items, this cycle uses a low heat. Use this setting when care labels recommend low heat settings or for garments with a synthetic fibre content, where overheating could cause damage to fibres.

**Timed Dry Cycles**

(Cycles run for a selected time.)

The dryer has three timed cycles. These cycles have set drying times of either 40, 60 or 80 minutes and include a DAMP DRY and DEWRINKLE function. If selected, the dryer will dry for the specified period of time.

**TIMED DRY** – Set the cycle selector at the desired drying time.

**DAMP DRY** – To leave items partially dry, set the cycle selector on DAMP DRY setting.

**DEWRINKLE** – For removing wrinkles from items that are clean and dry or that are slightly damp. Set the cycle selector on to DEWRINKLE setting.

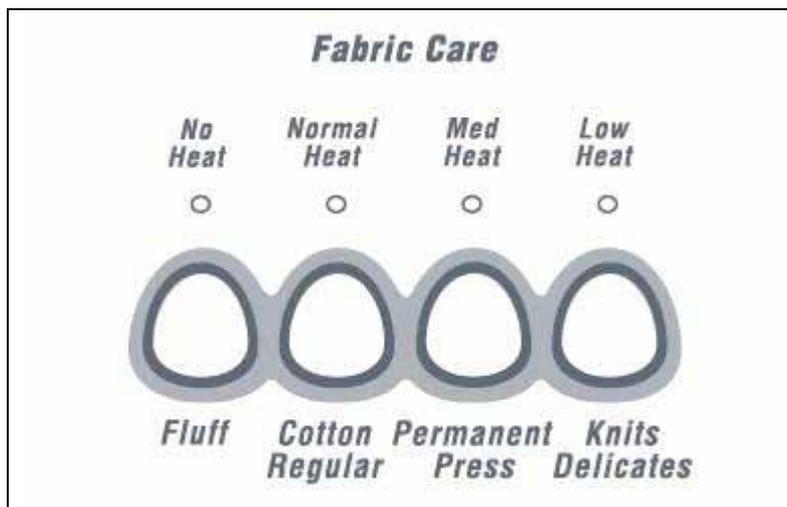
Note:

Drying times will vary according to the type of heat used (electrical or natural gas), size of load, types of fabrics, wetness of clothes and condition of exhaust ducts.

## 5.2 Using the Dryer

### Selecting a Cycle

The dryer has a number of FABRIC CARE CYCLES that can be used to dry different types of garments:



Select an automatic or timed cycle. See the below cycle descriptions.

Select a drying cycle that matches the type of load being dried. Different fabrics have different drying requirements, so it is important to choose the cycle that best describes the load. If the load contains mainly delicate items, it is best you select the **KNITS DELICATES** cycle.

If unsure of the temperature to select for a load, it is best to select a lower heat rather than a higher heat, e.g. the **KNITS DELICATES** or **PERMANENT PRESS** cycle instead of the **COTTON REGULAR** cycle.

Always follow manufacturer's care label instructions when drying.

### **EXTRA CARE**

Minimizes the likelihood of wrinkles forming in clothes if you are not able to unload the dryer straight away.

### **Selecting the Dryness Level**

The desired dryness level can be altered. There are two dryness levels to choose between:

**MORE DRY (+)**

**LESS DRY (-)**

Refer to page 29 for dryness level descriptions.

At the end of the cycle, if the clothes are still damp or are too dry, next time just adjust the dryness level on the timer to meet your personal preferences.

### **Selecting the Drying Process**

There are two ways in which your dryer is able to dry clothes - by using the automatic drying cycles or by using Timed Dry.

### **AUTOMATIC DRYING**

When automatic drying is selected, the dryer automatically senses the dryness level of the load and turns off when the clothes are dry. The dryer's internal computer measures the moisture content of the load using metal sensing bars, and together with a temperature sensor determine when the clothes have reached the selected dryness level (Refer to above - Selecting the Dryness Level).

For optimum clothes care, match the cycle to the load. Automatic drying often provides the best results and leads to lower energy costs than Timed Dry.

As automatic drying cycles rely on items of the load contacting sensors, it will not work when the drying rack accessory is used.

### **TIMED DRY**

There are three timed cycles. There is a choice of 40, 60 and 80 minutes. A cool down period of 10 minutes is included in the three cycles.

To select a timed cycle, set the cycle selector at the desired drying time you want the dryer to run for. Throughout the cycle, the cycle selector will rotate towards the end of the cycle.

During Timed Dry, the dryer does not sense when the clothes are dry. This may cause over-drying. We recommend that you dry the clothes for a slightly shorter time than you think they need, or check on them regularly (to avoid over-drying).

### **Beginning The Drying Cycle**

Once you have chosen all your desired settings, close the dryer door and press **START** (located on the right-hand side of the control panel).

Opening the door during the operation will stop the dryer.

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To restart the dryer, close the door and press **START** to complete the cycle.

**Stopping The Dryer**

The dryer can be stopped during any stage of the drying process, to allow you to check on the load or add/remove clothes. To do this, open the dryer door. There will be a slight delay as the drum slows down and stops.

Note:

If the cycle is interrupted before it progresses into cool down, parts of the drum may be hot. To start the dryer again, press **START**.

**Changing Cycles During Operation**

If you wish to change the drying cycle you have chosen after the machine has already begun drying, press your new cycle selection on the control panel.

**Fabric Softener Sheets**

If you wish to use fabric softener sheets, you must ensure that they are labelled “dryer safe”. Always follow the instructions on the packaging. Do not place them in a dryer with warm clothes, as there is a chance the fabric softener may stain clothes. Only use a softener sheet once, then discard it.

**Beeps**

At the end of the cycle, the dryer will beep to let you know that the load is finished. The drum will automatically come to rest, allowing you to open the door and remove the load.

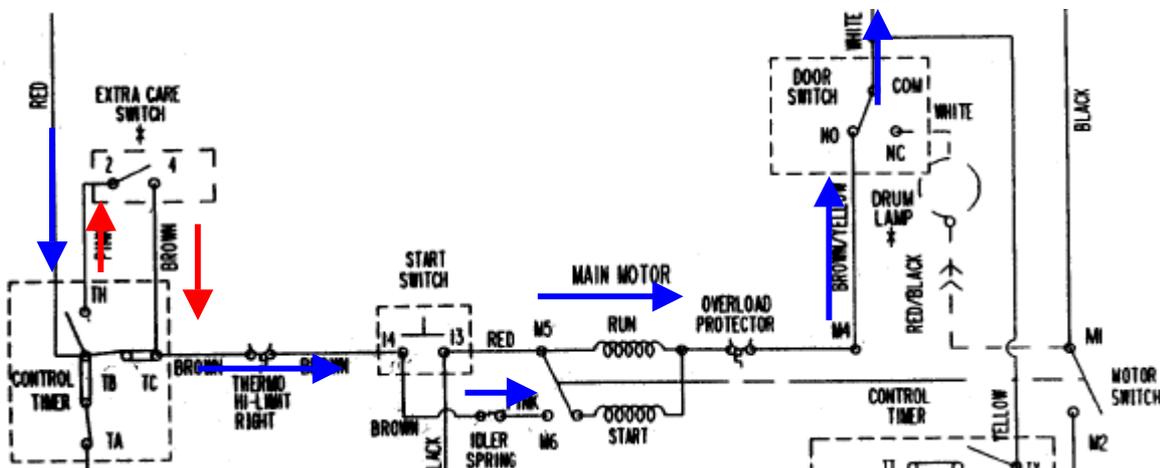
**5.3 Operational Control Sequence**

**5.3.1 Motor Operation**

The motor runs on the 120v circuit of the dryer. Power is supplied into the TB connection on the timer. Power for the motor is fed first from the TC terminal on normal operation and from the TH terminal on Extra Care. If on Extra Care, power is fed from TH on the timer, into terminal 2 on the selector, out of terminal 4 and back to TC on the timer.

From the timer, power is switched through the hi-limit thermostat and to the start switch, which is selector terminals 14 to 13. Power is then fed through both the start and run windings on the motor. The centrifugal switch then disengages the start winding once the motor has started.

In the motors neutral circuit there is an internal overload. The neutral circuit then runs through the door switch and to the mains terminal block.



### 5.3.2 Timer Operation

The timer runs in 2 ways, Automatic and Timed Dry.

In automatic, the timer only advances when the PCB powers the timer motor.

Power is supplied into the TB connection on the timer. Power for the motor is fed first from the TC terminal on normal operation and from the TH terminal on Extra Care. If on Extra Care, power is fed from TH on the timer, into terminal 2 on the selector, out of terminal 4 and back to TC on the timer.

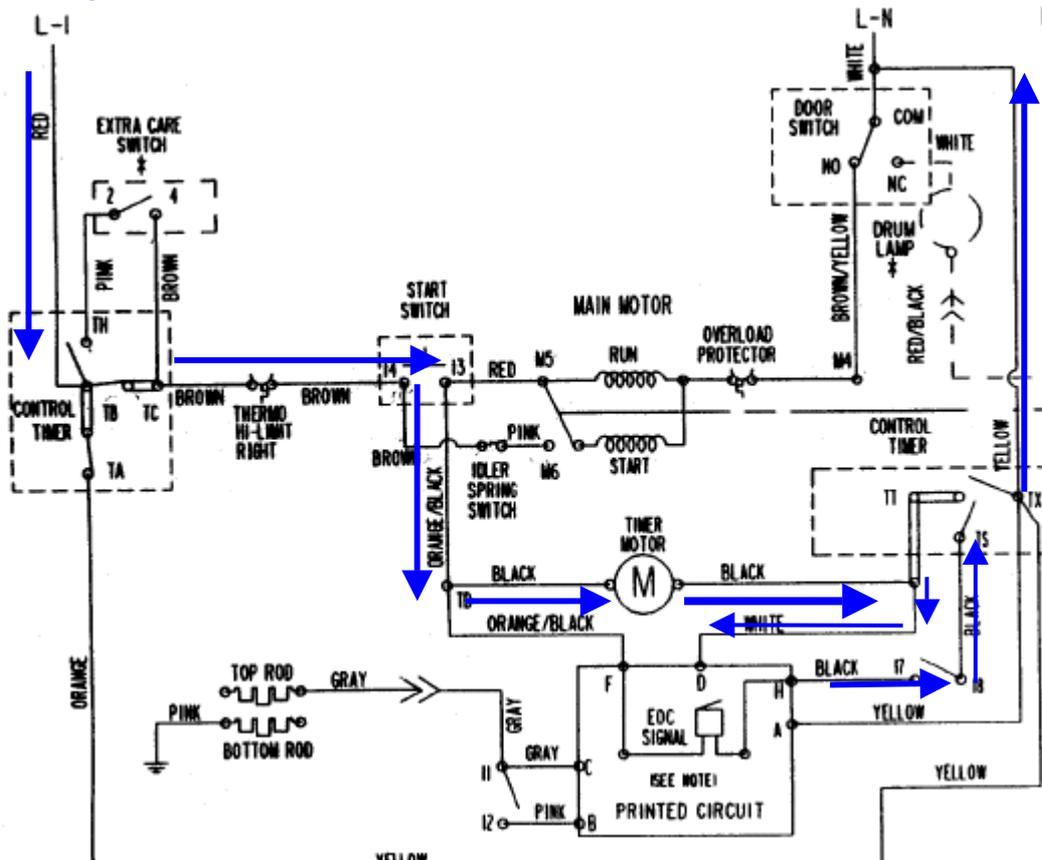
From the timer, power is switched through the hi-limit thermostat and to the start switch, which is selector terminals 14 to 13.

Power is then supplied from the start switch, which powers back from the motor feed, then goes through the timer motor to the T terminal on the timer. The neutral for the timer motor then feeds to the white wire to the PCB.

From the PCB, neutral is fed back to the S terminal on the timer then back to the mains terminal block.

The PCB measures moisture across the sensing bars on the front duct assembly. As the clothes slide past the bars, the PCB reads for a current across the bars. When the clothes are dry the current ceases so the PCB advances the timer.

#### Auto Dry



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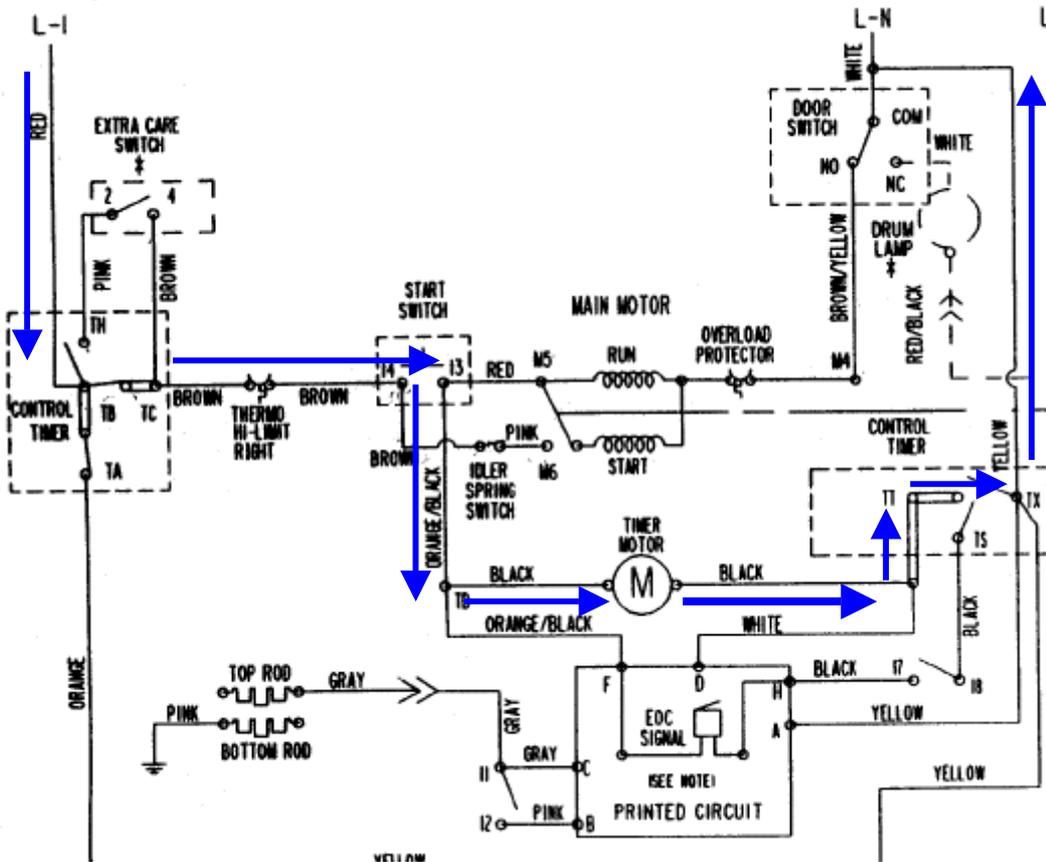


### Sensing Bars

There should only be a minimum of 1Mohm across the bars when dry. The resistance should lower when moisture tracks across the bars. To test the bars, check their resistance dry, then wet your finger and place it across the bars and check for a change in resistance.

In Timed Dry, the timer motor is run direct through the timer. The neutral of the timer motor runs onto terminal T and then comes out from X and to the mains terminal block.

### Timed Dry





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### 5.3.4 Thermostat Operation (Electric Model)

There are three thermostats that control the temperature of the dryer and a hi-limit thermostat that will shut the dryer down if it overheats.

The hi-limit thermostat is mounted on the heater cowl and is in circuit with the motor. If it shuts down, the motor stops. There is a switch on the motor, which cut the neutral to the element when the motor stops, so when the hi-limit trips, all dryer functions cease to operate.

The heating elements are controlled by the safety, inlet and outlet thermostats.

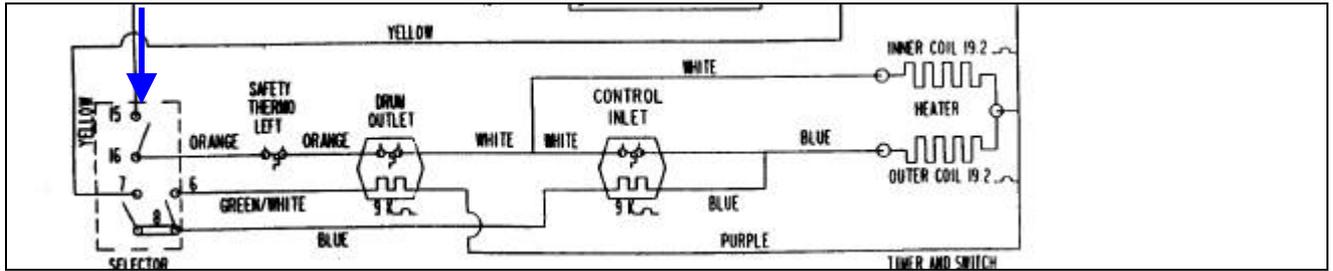
When the selector is set on No Heat/Fluff, no power is supplied from terminal 16 so there is no element operation.

When the selector is set on Normal Heat/Cotton Regular, power is supplied only through the direct element circuit (as shown in Section 5.3.3). Temperature is controlled by the safety thermostat, which is located on the heater cowl.

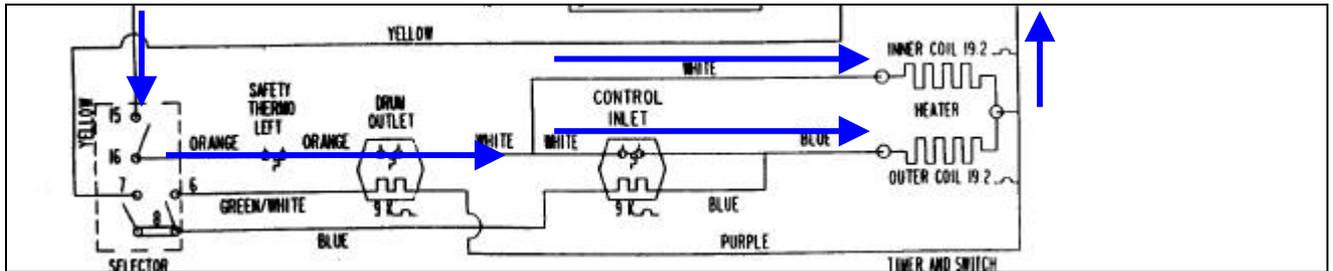
When the selector is set on Med Heat/ Permanent Press, power runs through two circuits. Power is supplied off terminal 16 to the element circuit. Power is also switched onto the control circuit for control inlet thermostat. The control circuit for the control inlet thermostat has an active supply from the L1 circuit for the element. The neutral of the control circuit is switched between terminals 8 and 7 (terminal 7 is the common neutral connection on the selector switch). The thermostat will not operate unless there is power through the resistor in the thermostat. The resistor has a resistance of 9 Kohms. This thermostat only switches one element.

When the selector is set on Low Heat/Knits Delicates, the element circuit and the control circuits for the inlet and exhaust thermostats is used. Terminal 7 on the selector is the common neutral connection and the exhaust thermostat is switched to it on terminal 6. The active supply for the exhaust thermostat control is from the L2 line. The resistor has a resistance of 9 Kohms. See the diagrams on the next page.

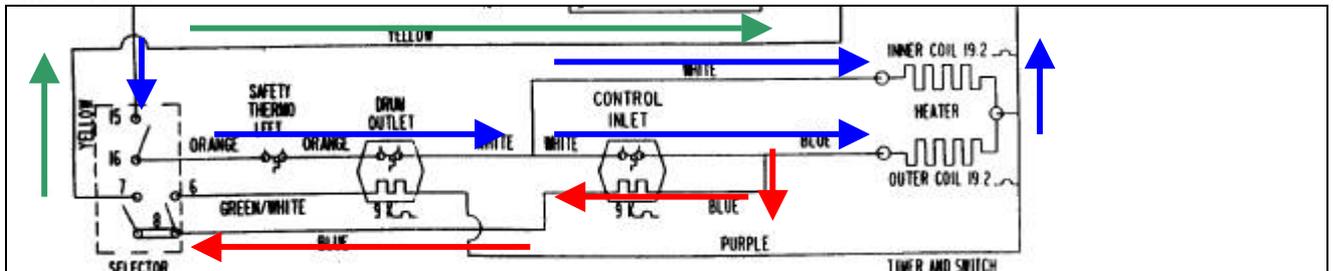
No Heat



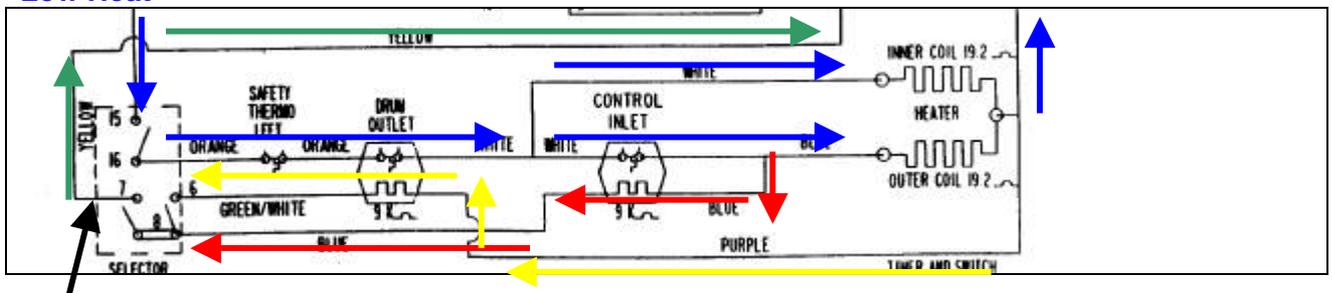
Normal Heat



Med Heat



Low Heat

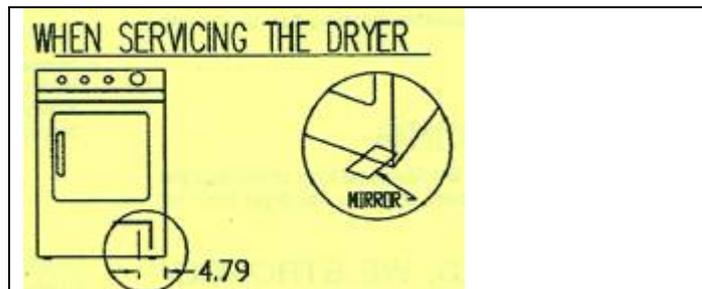
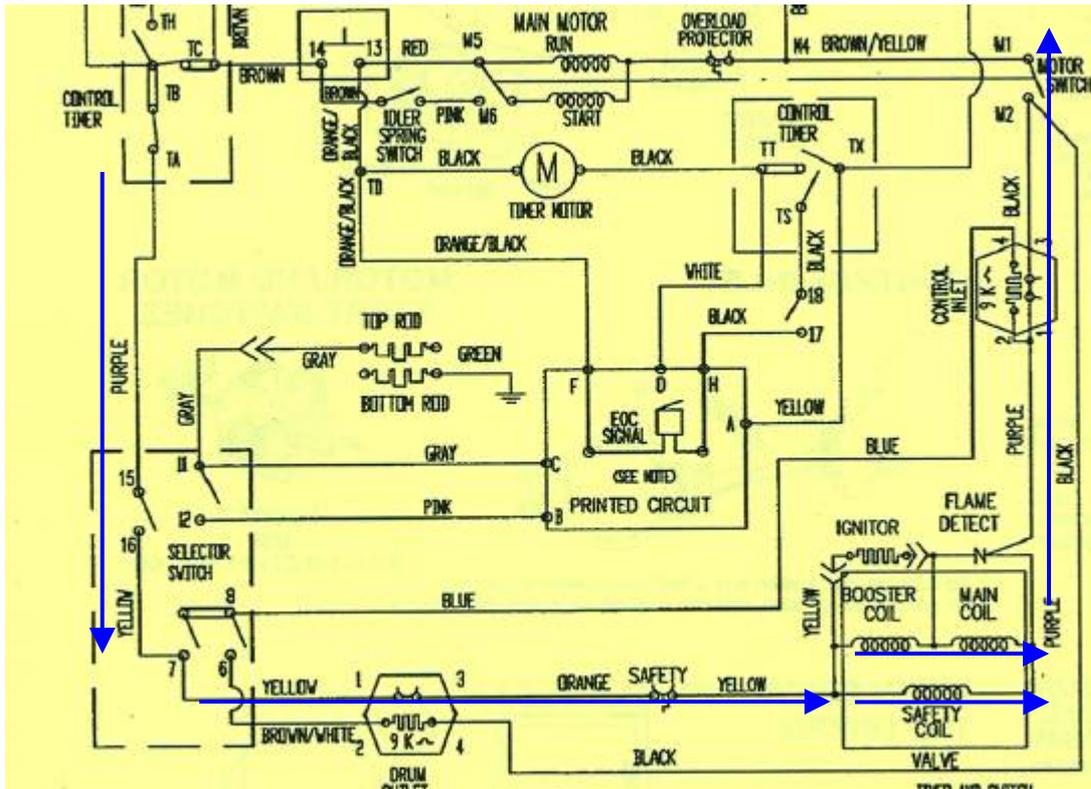


Common Neutral for both Thermostats

- Blue = Element Circuit
- Red = Control Inlet Thermostat Resistor Circuit
- Yellow = Drum Inlet Thermostat Resistor Circuit
- Green = Thermostat Neutral Circuit



Run Circuit



The ignitor functioning and the flame can be seen through a viewer hole located in the base of the dryer. Use a mirror as shown in these figures.

5.3.6 Thermostat Operation (Gas Model)

There are three thermostats in the gas valve circuit for temperature control, the safety, control inlet and drum outlet.

When the selector is set on No Heat/Fluff, power is supplied to terminal 16 but terminates, so there is no gas valve operation.

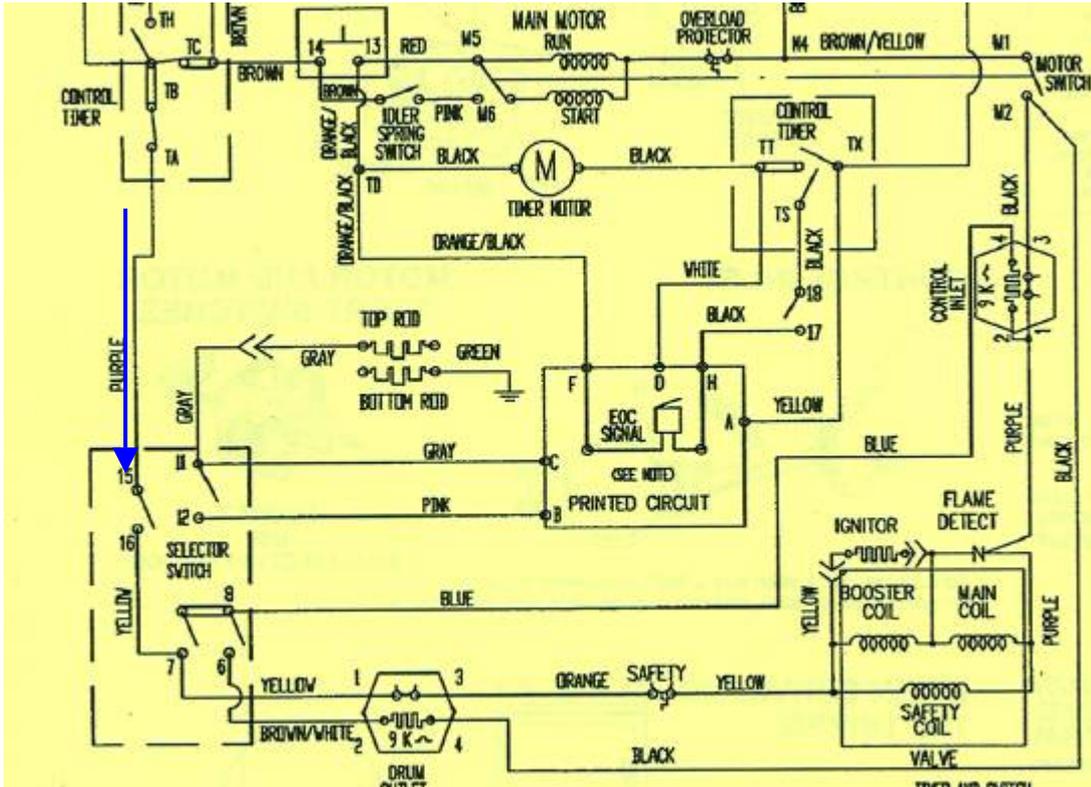
When the selector is set on Normal Heat/Cotton Regular, power is fed through the gas valve circuit only so the safety thermostat controls temperature.

When the selector is set on Med Heat/ Permanent Press, power is fed through the gas valve circuit but also from terminal 8 through the control inlet resistor circuit.

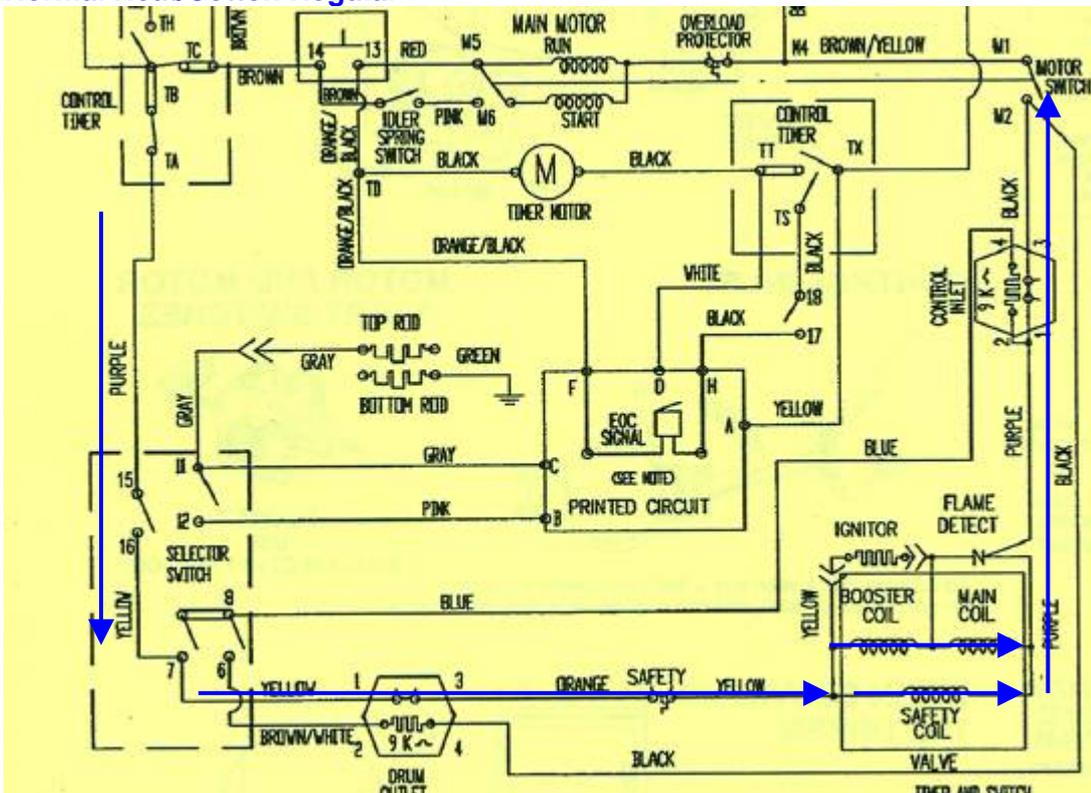
When the selector is set on Low Heat/ Knits Delicates, power is fed through the gas valve circuit, from terminal 8 through the control inlet resistor circuit, and terminal 6 through the drum outlet resistor circuit.

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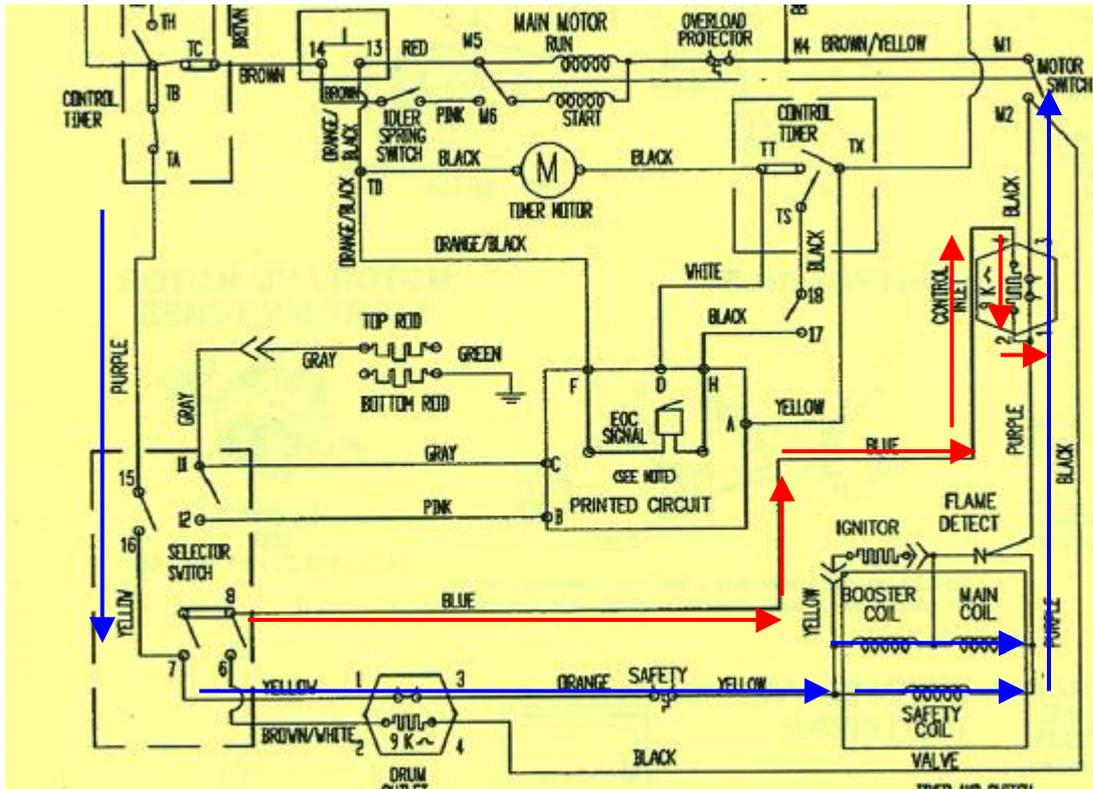
No Heat/Fluff



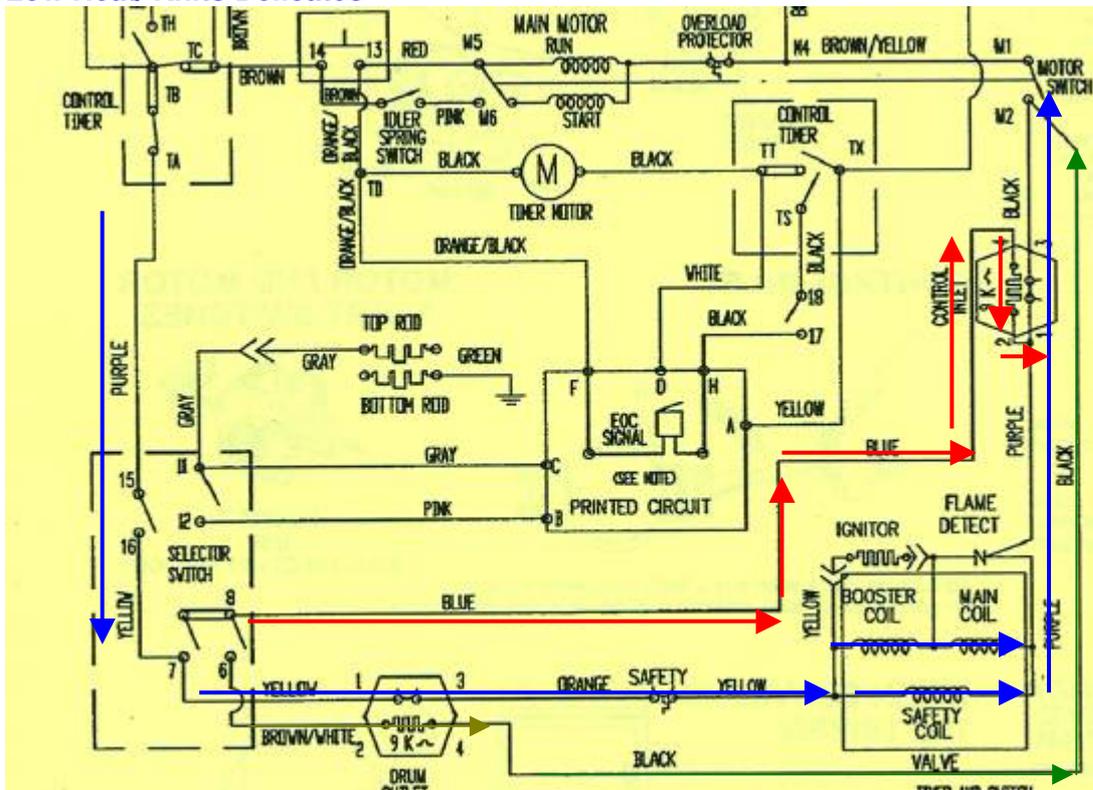
Normal Heat/Cotton Regular



Med Heat/Permanent Press



Low Heat/ Knits Delicates



- Blue = Coil Circuit
- Red = Control Inlet Circuit
- Green = Drum Outlet Circuit

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## 6 FAULT FINDING

### 6.1 Fault Finding

Fault	Cause	Repair
<ul style="list-style-type: none"> <li>• No operation.</li> </ul>	<ul style="list-style-type: none"> <li>• No power to unit.</li> <li>• No power at terminal C on timer.</li> <li>• Hi-limit thermostat open circuit (electric only).</li> <li>• Start button not operating.</li> <li>• Idler switch open circuit.</li> <li>• Motor seized or open circuit.</li> <li>• Door switch open circuit.</li> </ul>	<ul style="list-style-type: none"> <li>• Resupply power to the unit.</li> <li>• Replace timer.</li> <li>• Replace hi- limit thermostat &amp; check for possible overheating issues (see overheating).</li> <li>• Replace selector switch assembly.</li> <li>• Check belt condition &amp; replace if necessary. Check idler arm or pulley &amp; replace if necessary. Check idler switch operation and replace if necessary.</li> <li>• Check motor spins freely and check windings. Replace if necessary.</li> <li>• Replace door switch.</li> </ul>
<ul style="list-style-type: none"> <li>• No heat.</li> </ul>	<ul style="list-style-type: none"> <li>• Selector set on No Heat/Fluff.</li> <li>• No power to terminal A on the timer.</li> <li>• No motor operation.</li> <li>• No Power from Terminal 16 on the selector.</li> <li>• The safety, inlet, or drum outlet thermostat failure.</li> <li>• The elements are open circuit (electric model only).</li> <li>• No gas valve operation (gas model only).</li> <li>• Open circuit motor switch.</li> </ul>	<ul style="list-style-type: none"> <li>• Reset selector.</li> <li>• Replace the timer.</li> <li>• See No Operation section.</li> <li>• Replace the selector.</li> <li>• Check thermostats for continuity and resistance of the resistors. Replace if necessary.</li> <li>• Replace elements.</li> <li>• Check flame failure operation. Check gas coil continuity. Change gas valve assembly.</li> <li>• Replace the motor.</li> </ul>

Fault	Cause	Repair
<ul style="list-style-type: none"> <li>• Long dry times.</li> </ul>	<ul style="list-style-type: none"> <li>• Low heat.</li>   <li>• Air flow restriction.</li>   <li>• PCB not reading sensing bars.</li>   <li>• Timer jamming.</li>   <li>• Slow motor operation.</li>   <li>• Worn drum felt.</li> </ul>	<ul style="list-style-type: none"> <li>• Check operation of elements. Check thermostat operation. Check all electrical connections in the element circuit.</li>   <li>• Check filter cleaned and filter mesh not clogged. Check installation and flow through the household exhaust ducting. Check fan is properly secured to motor shaft. Check fan cowl and internal ducting for a restriction.</li>   <li>• Check behind sensing bars for lint build up. Check sensing bars are clean of detergent or any residues. Replace PCB.</li>   <li>• Check power is supplied to the timer motor (terminals D and T on the timer). Replace the timer.</li>   <li>• Check motor is getting full power. Replace the motor.</li>   <li>• Replace drum felt.</li> </ul>
<ul style="list-style-type: none"> <li>• Noisy operation</li> </ul>	<ul style="list-style-type: none"> <li>• Worn drum rear bearing.</li>   <li>• Idler pulley noisy.</li>   <li>• Loose or damaged fan.</li>   <li>• Worn front bearing slides.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove drum and replace rear sleeve. (Do not lubricate.)</li>   <li>• Check pulley is lubricated. If worn replace the idler pulley.</li>   <li>• Re-secure fan to shaft or replace fan. Check motor bearings for excessive wear.</li>   <li>• Relace front bearings. Check drum has not rubbed or damaged any other components.</li> </ul>

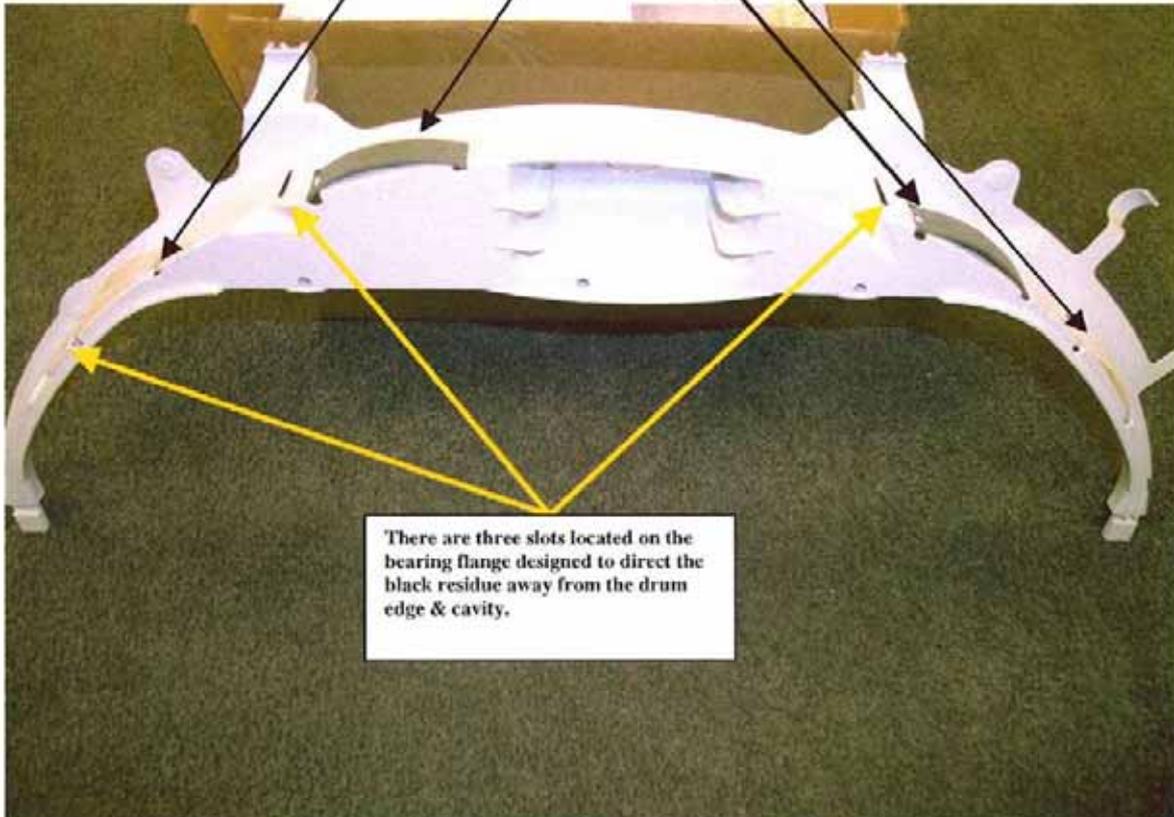
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Fault	Cause	Repair
<ul style="list-style-type: none"> <li>• Black marks on clothes.</li> </ul>	<ul style="list-style-type: none"> <li>• Reaction with front bearings.</li> </ul>	<ul style="list-style-type: none"> <li>• See technical bulletin below.</li> </ul>

Front bearing Kit for Camco Dryer

This kit was designed to resolve black residue being deposited on clothing  
part number WE3M27

All four bearing glides come attached to the  
 Front drum support bearing



There are three slots located on the  
 bearing flange designed to direct the  
 black residue away from the drum  
 edge & cavity.

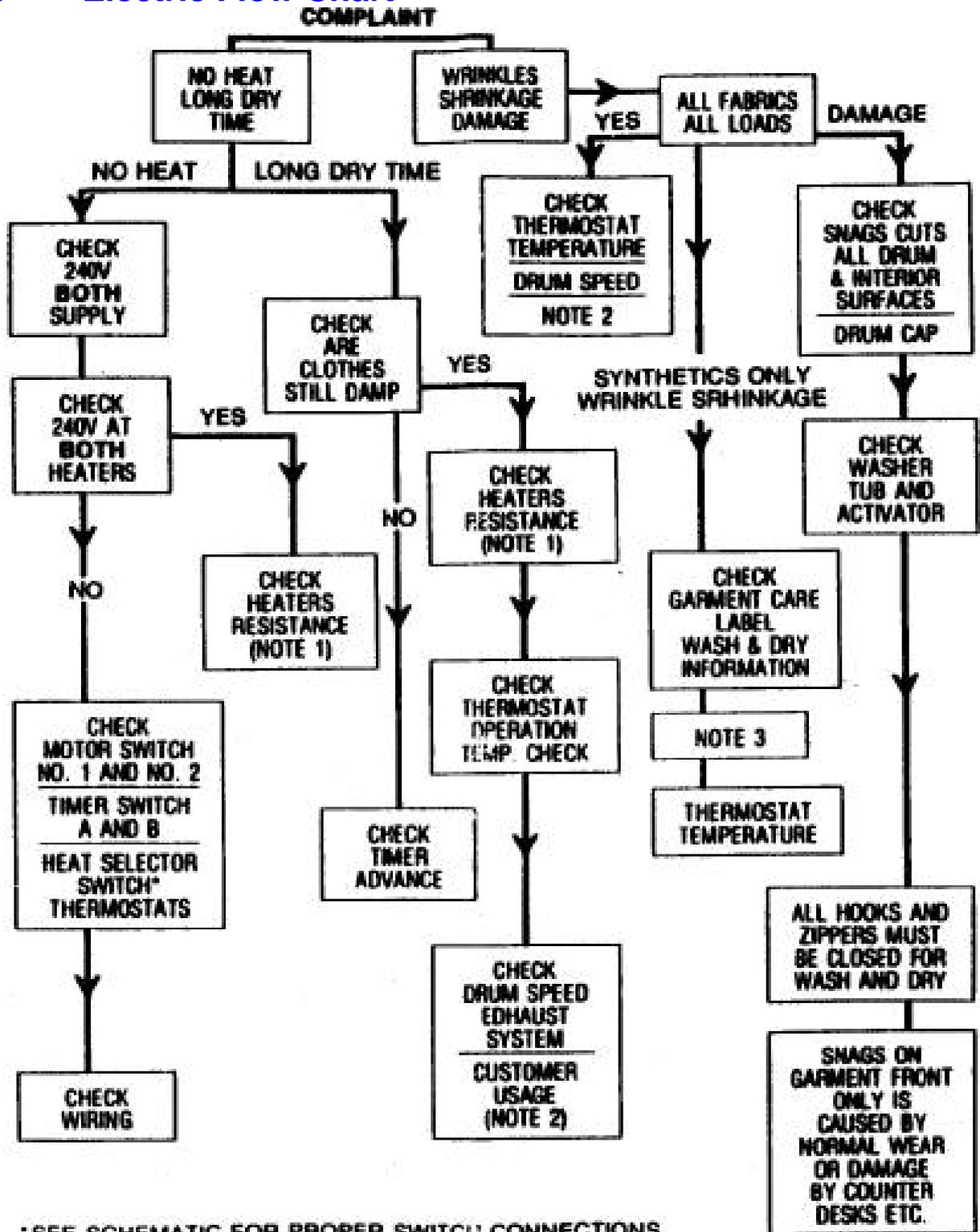
Before installing this kit please be sure all black residue has been wiped from all areas around the drum and bearing using Isopropyl alcohol ( rubbing alcohol ) and the drum head has been cleaned thoroughly as well .If the kit is installed and the problem returns follow the same cleaning instructions except the tech will need to replace the drum as well as order a set of glides using the white color glides Part # **WE1M504** from the kit and put them in place of the dark colored glides, ie: they will now have two sets of white glides on the front bearing rather than one set white and one set dark. This should eliminate this from reoccurring.

It is highly suggested that the Felt Drum seal Part# WE9M15 is also replaced at the same time

**Note: Drum felt is now supplied with this kit.**

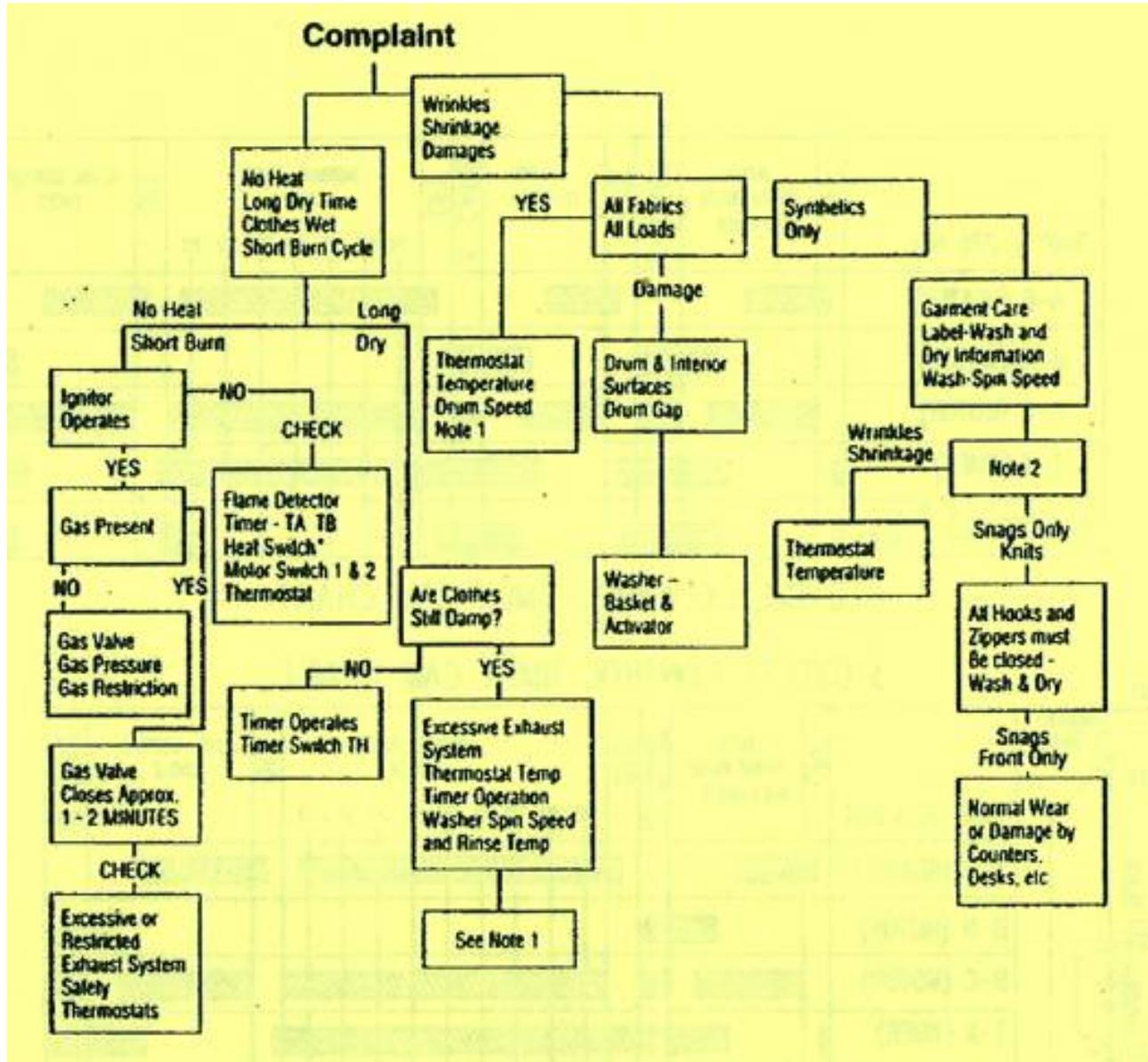
# 7 FLOW CHARTS

## 7.1 Electric Flow Chart



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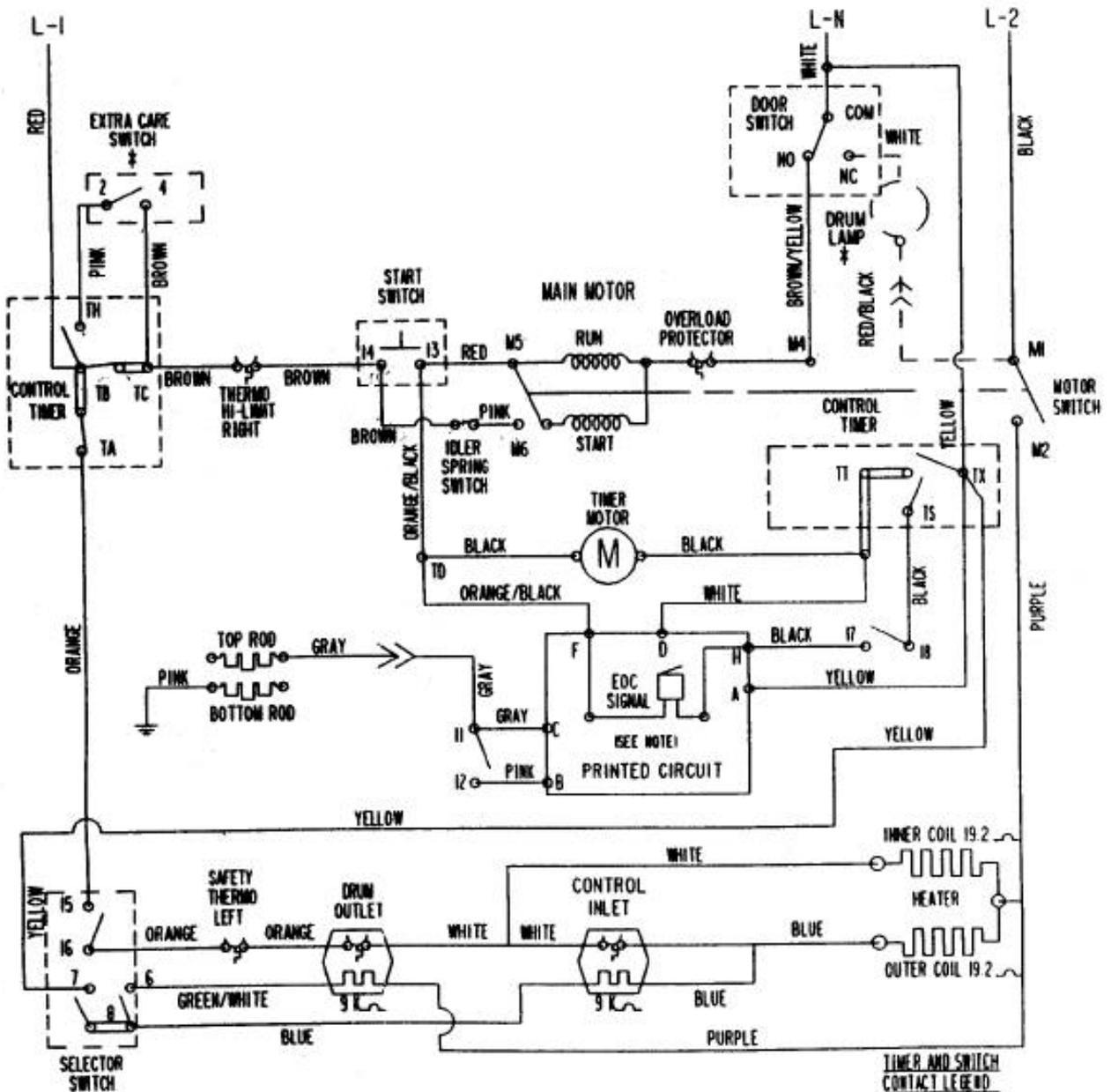
## 7.2 Gas Flow Chart



# 8 WIRING DIAGRAMS

## 8.1 Electric Wiring Diagram

SCHEMATIC



**NOTE:**  
 EDC SIGNAL WILL SOUND WHEN TIMER IS IN COOL DOWN PERIOD OF CYCLE AND DURING EXTRA CARE CYCLE. IT OPERATES WITH SIGNAL ON 5 SECONDS AND OFF 70 SECONDS. TO TEST- SET TIMER NEAR END OF CYCLE OR IN EXTRA CARE CYCLE AND WAIT 2 MINUTES FOR SIGNAL TO SOUND. TIMER MUST BE ALLOWED TO RUN, AND ELECTRICALLY ENERGIZE SIGNAL.

**TERMINAL LEGEND**

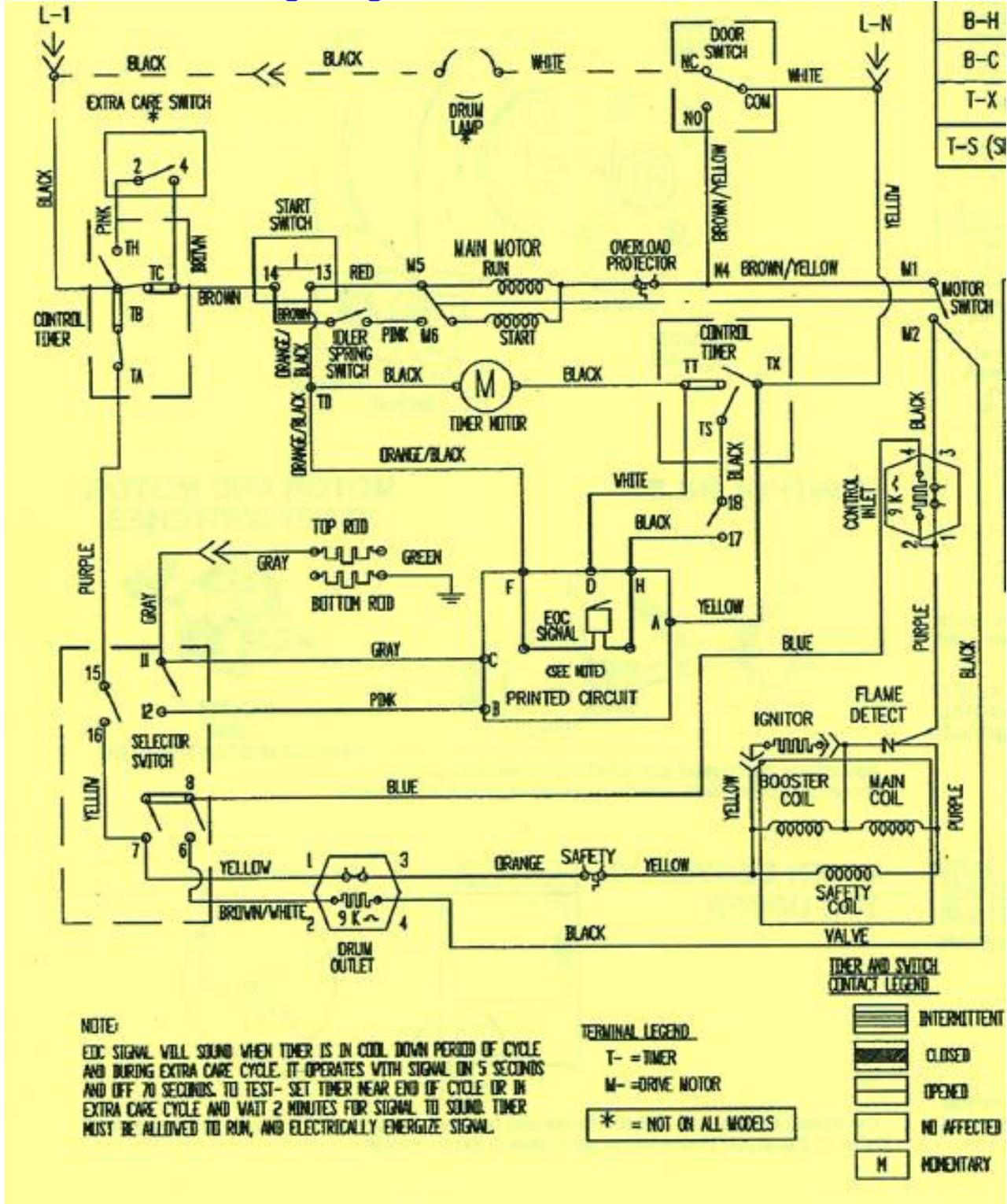
- T- = TIMER
- M- = DRIVE MOTOR
- \* = NOT ON ALL MODELS

**TIMER AND SWITCH CONTACT LEGEND**

- INTERMITTENT
- CLOSED
- OPENED
- NO AFFECTED
- MOMENTARY

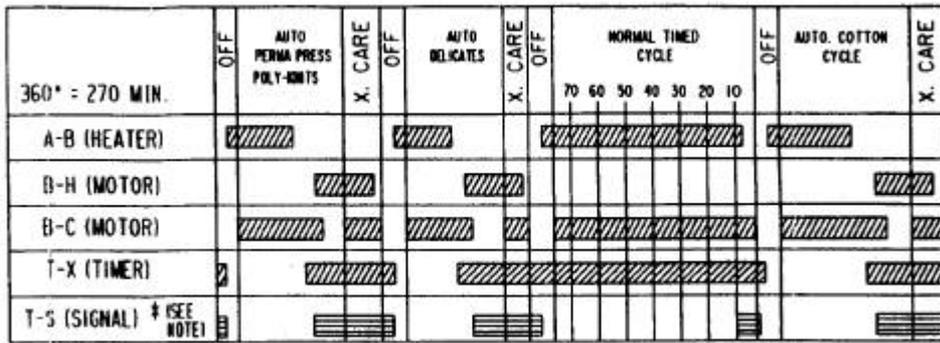
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## 8.2 Gas Wiring Diagram



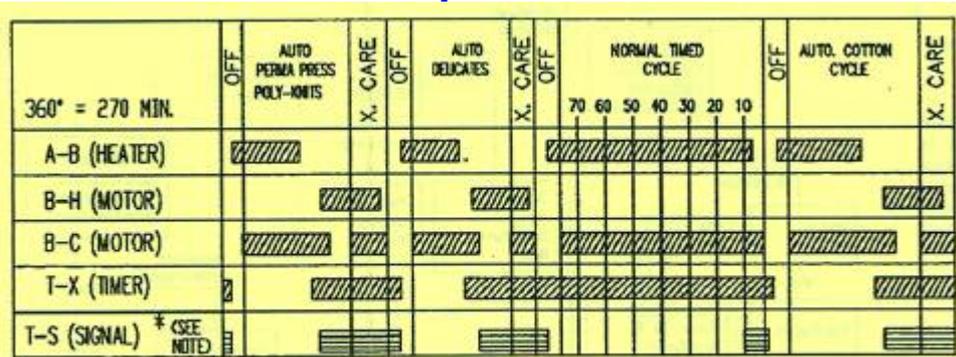
## 9 SEQUENCE CHARTS

### 9.1 Electric Timer Sequence



4 CYCLES CONTROL TIMER CAM CHART

### 9.2 Gas Timer Sequence



4 CYCLES CONTROL TIMER CAM CHART

### 9.3 Electric Selector Sequence

SELECTOR SWITCH  
ELECT. TYPE 1

	CONTACTS *						
	6-8	7-8	15-16	4-2	18-17	13-14	11-12
COTTON			█				
PERMA PRESS		█					█
KNITS	█						█
FLUFF							█
EXTRA-CARE				█			
END-CYCLE					█		
RESET							
PUSH/START						M	

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## 9.4 Gas Selector Sequence

SELECTOR SWITCH (GAS TYPE)		CONTACTS						
	6-8	7-8	15-16	2-4	18-17	13-14	* 11-12	
COTTON			■					
PERMA PRESS		■	■				■	
KNITS-DELICATE	■	■	■				■	
FLUFF							■	
EXTRA-CARE				■				
END/CYCLE					■			
RESET								
PUSH/START						M		

