



COMMERCIAL DRYERS

DG32 - OLD MAYTAG

DZ3 SERIES

SERVICE PROCEDURES AND PARTS DATA

***THE
DEXTER
COMPANY***

8533 - 006 - 003

FAIRFIELD, IOWA 52556 / TELEPHONE 515-472-5131

Laundry Specialists Since 1894

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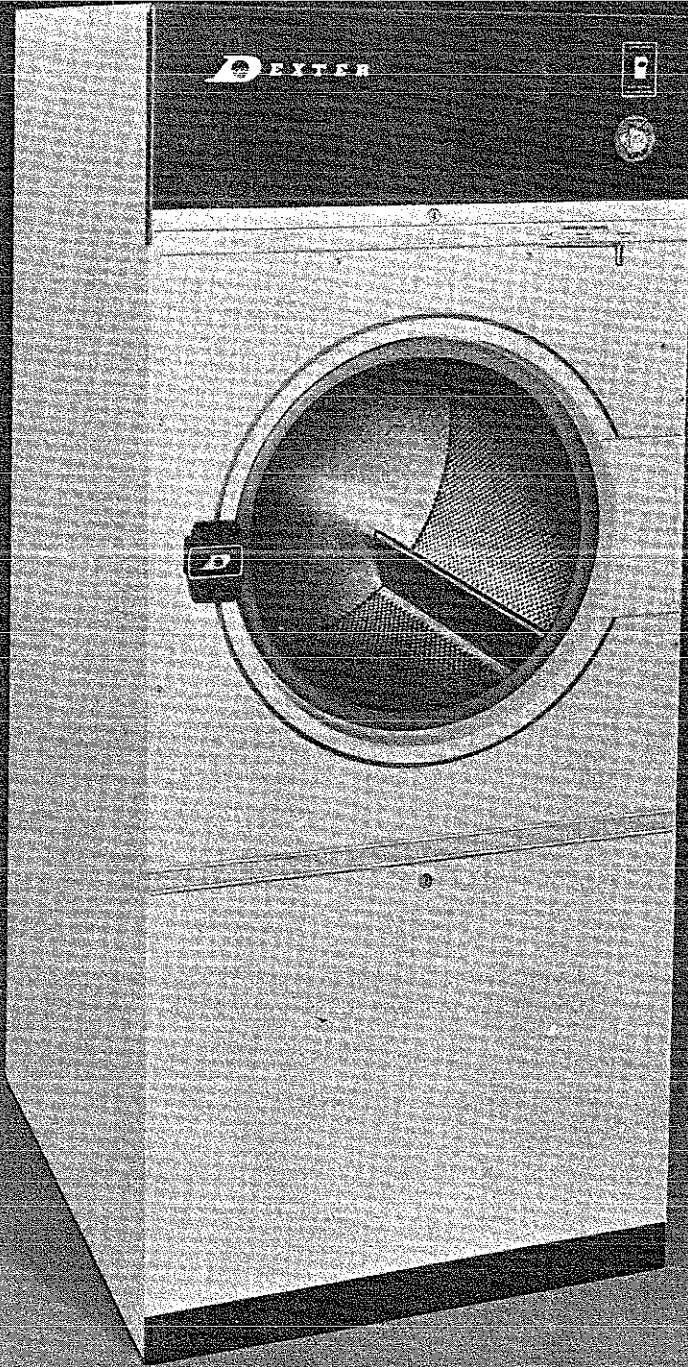


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Section 1

Commercial Dryer

PRIMARY SERVICE DATA

1-1 UNCRATING

1. Remove cardboard container and innerpack.
2. Complete the uncrating as per the procedure listed on the instruction sheet taped to the loading door glass.

1-2 EQUIPMENT INSTALLATION

All commercial dryer installations should be made in accordance with National Fuel Gas Code ANSI-Z223.1-1980 and must be electrically grounded in accordance with the National Electrical Code ANSI/NFPA70-1981.

In addition, all requirements of the authority having jurisdiction in the area must be adhered to. For Canadian installation refer to Canadian Standards Association Standard CSA-C22.1.

Commercial dryers should be located where a minimum amount of exhaust venting is necessary. (See Exhausting).

A minimum of 10" of unobstructed air space above the dryer is necessary for proper air supply to the dryer.

NOTE: 1/4" clearance must be provided at top in front for clearance of upper service door opening.

A false ceiling of lattice-work or perforations consisting of metal or nonflammable material can be used for installations. This arrangement allows hot ceiling air to be drawn into the dryers, which will make the occupied room air more comfortable and aid in drying efficiency.

Any partitions or bulkheads that might be used on dryer installations should be constructed completely of non-flammable material.

Adequate make-up air must be supplied to replace air exhausted by the dryers. Provide a minimum of one sq. ft. make-up air opening to the outside for each dryer.

The source of make-up air should be located sufficiently away from the dryers to allow an even air flow to the air intakes of all dryers.

Whenever it is necessary to supply make-up air through the ceiling or wall adjacent to the dryers, multiple openings should be provided. Additionally a deflector baffle or duct is recommended for these openings to disperse the air and allow even distribution of air flow over the dryers.

Locate the dryers out from the wall sufficiently to allow for servicing from the rear. (See Clearance Requirements).

All dryers should be level and resting solidly on the floor or foundation. This is accomplished by adjustment of the leveling legs provided with each dryer.

NOTE: The following considerations must be observed for gas dryer installations where dry cleaners are installed. The sources of all make-up air and room ventilation air movement to all dryers must be located away from any dry cleaners. This is necessary so solvent vapors will not be drawn into the dryer inlet ducts. Dry cleaner solvent vapors will decompose on contact with an open flame. The decomposition products are highly corrosive and will cause damage to dryers, ducts and clothes load.

1-3 ELECTRICAL REQUIREMENTS

The electrical power requirements necessary to operate the unit satisfactorily is listed on the serial plate located on the back panel of each dryer. The electrical connection should be made at the pig tail leads provided at the service box outlet (or terminal block if supplied) on the rear of the unit, using a wire size adequate to handle the voltage listed on the serial plate but never smaller than No. 12. Additionally, separate lines should be run to each unit with an overload protection device installed. A master control panel with an individual circuit breaker (15 amp.) for each unit is recommended.

The unit should be grounded in accordance with all local and national electrical codes. It is recommended the cabinet be grounded by means of the grounding wire used with a three wire power supply cable. Secure one end of the cable ground wire to the cabinet and the other end can be secured to the supply outlet box if the box itself is grounded. Another method would be to securely ground the cabinet with a stranded wire secured to a physical ground such as a cold water pipe.

1-4 CLEARANCE REQUIREMENTS

1. If the dryer is installed in a confined space, a minimum opening of 144 sq. in. must be provided near the top of the dryer cabinet at the rear, in order to admit combustion and ventilation air.
2. A minimum of 24 in. clearance behind the dryer must be provided to permit maintenance and service.

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance. Consult your local Gas Supplier for procedure to be followed if the odor of gas is present.

1-5 GAS REQUIREMENTS

The complete gas requirements necessary to operate the various gas dryers satisfactorily is listed on the serial plate located on the back of each dryer.

The inlet gas pipe connection to the unit is $\frac{1}{2}$ in. However, the local conditions of type and gas pressure, plus the number of fittings and length of pipe are considerations on the size of supply pipe to be used.

1. A joint compound resistant to the action of L.P. gases should be employed in making pipe connections.
2. A drip tee should be provided in the gas piping entering the unit to catch dirt and other foreign articles.
3. All pipe connections should be checked for leakage with soap solution. Never check with an open flame.

NOTE: It is necessary that the local gas company be contacted for the correct size of pipe to be connected from the source to the inlet connection at the units. This information is necessary so the proper gas pressure may be maintained to the dryers.

In the areas where permitted, it is suggested that flexible supply line be used from the main gas supply line to the inlet pipe connection at the dryer. This will allow moving the dryer forward to remove the front panel without disconnecting the gas supply line.

Many installations use a balancing line to insure adequate gas supply when a bank of dryers are to be installed from a manifold type of gas supply line. This arrangement helps to maintain adequate gas supply to all dryers no matter their location on the manifold take-off. The balancing line should be of a pipe diameter which will permit adequate gas supply through the manifold and is connected to each of the manifolds.

All commercial dryers shipped from the factory will be equipped with the main burner orifices drilled to a size to supply the correct B.T.U. per hour heat input as listed on the serial plate on the back panel of the dryer. These orifices will be drilled for use with natural gas of 1050 B.T.U.'s cu. ft., 0.60 specific gravity at $3\frac{1}{2}$ in. water column gas pressure at the main burners.

All dryers are equipped with a non-aerated pilot burner containing a pilot orifice drilled for natural or mixed gases only.

NOTE: It will be necessary to change the main burner orifices to maintain the correct B.T.U. heat input/hour at $3\frac{1}{2}$ " water column gas pressure, when any dryer is to be used with gas which contains different characteristics of heat content and specific gravity than that as shown in the data on the back of dryer. Consult the local gas utility for the characteristics of the gas on which the dryer is to operate. The following charts should then be consulted for the correct main burner orifice drill size required. The charts are to be used only as guides and if your local conditions are not listed, your utility company can advise you of the proper orifice size. Be sure and inform them that two burners are used in the system.

If the dryer is to be used on L.P. gas, a conversion kit is available to make the complete conversion. (See parts list section of the manual).

HOW TO SELECT PROPER ORIFICE SIZE

Natural and Mixed Gases - Table I and II include data for selecting the proper orifice size for a required rate when the heating value, specific gravity, and gas pressure to be used are known. In using these tables a factor is first selected from Table I corresponding to the specific gravity and heating value of the gas supply being considered. This factor is then multiplied by the input rate of the burner in B.T.U. per hour. The proper orifice size may then be selected from Table II by locating the resultant input rate under the desired pressure.

EXAMPLE: Given: Gas condition of 1000 B.T.U./cu. ft., 0.6 specific gravity and 3 in. water column pressure.

Wanted: Drill size for 50,000 B.T.U./burner

In Table I a multiplier of .800 is found ($.800 \times 50,000 = 40,000$ BTU).

In Table II 40,000 BTU is in between a No. 26 and No. 27 drill size.

TABLE 1

ORIFICE CAPACITIES

Correction for heating value and specific gravity of gas

(Basic-800 BTU-0.6 Sp. Gr. Gas)

SPECIFIC GRAVITY (AIR=1.0)

HEATING VALUE BTU/cu. ft.	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4
400	1.41	1.63	1.83	2.00	2.16	2.31	2.45	2.59	2.70	2.83	2.95	3.06
500	1.13	1.31	1.46	1.60	1.73	1.85	1.96	2.07	2.16	2.27	2.36	2.45
525	1.08	1.29	1.39	1.52	1.64	1.76	1.87	1.97	2.06	2.16	2.25	2.33
550	1.03	1.24	1.33	1.45	1.57	1.68	1.78	1.88	1.97	2.06	2.15	2.23
575	0.983	1.14	1.27	1.39	1.50	1.61	1.70	1.80	1.88	1.97	2.05	2.13
600	0.942	1.04	1.22	1.33	1.44	1.54	1.63	1.73	1.80	1.89	1.97	2.04
700	0.810	0.932	1.04	1.12	1.24	1.32	1.39	1.48	1.54	1.62	1.69	1.75
800	0.707	0.816	0.912	1.00	1.08	1.15	1.22	1.30	1.35	1.41	1.48	1.53
825	0.685	0.791	0.885	0.970	1.05	1.12	1.19	1.26	1.31	1.37	1.43	1.48
850	0.665	0.769	0.860	0.942	1.02	1.09	1.15	1.22	1.27	1.33	1.39	1.44
875	0.646	0.746	0.835	0.915	0.987	1.05	1.12	1.19	1.24	1.29	1.35	1.40
900	0.628	0.725	0.811	0.890	0.960	1.03	1.09	1.15	1.20	1.26	1.31	1.36
950	0.595	0.687	0.769	0.842	0.910	0.972	1.03	1.09	1.14	1.19	1.24	1.29
1000	0.565	0.653	0.730	0.800	0.864	0.924	0.980	1.04	1.08	1.14	1.18	1.22
1025	0.551	0.636	0.712	0.781	0.842	0.900	0.955	1.01	1.06	1.10	1.15	1.19
1050	0.538	0.621	0.696	0.762	0.823	0.800	0.934	0.985	1.03	1.08	1.12	1.16
1075	0.526	0.606	0.679	0.745	0.804	0.859	0.911	0.961	1.00	1.05	1.10	1.14
1100	0.514	0.594	0.664	0.727	0.785	0.840	0.891	0.938	0.982	1.03	1.07	1.11

TABLE II

ORIFICE CAPACITIES IN BTU/HR.

(800 BTU-0.6 SP. Gr. Gas)

(See Table I for corrections to apply for other gases)

GAS PRESSURE IN INCHES (Water Column)

Orifice Size	Dec. Dim.	3"	4"	Orifice Size	Dec. Dim.	3"	4"
16	.177	58,000	66,900	31	.120	26,700	30,950
17	.173	55,500	64,000	32	.116	24,950	28,900
18	.1695	53,300	61,500	33	.113	23,700	27,450
19	.166	51,000	58,800	34	.111	22,800	26,400
20	.161	48,000	55,400	35	.110	22,400	26,000
21	.159	46,700	53,900	36	.1065	21,000	24,300
22	.157	45,600	52,600	37	.104	20,000	23,200
23	.154	44,000	50,700	38	.1015	19,080	22,100
24	.152	42,700	49,300	39	.0995	18,300	21,200
25	.1495	41,400	48,000	40	.098	17,800	20,600
26	.147	40,100	46,500	41	.096	17,100	19,800
27	.144	38,500	44,600	42	.0935	16,200	18,800
28	.1405	36,600	42,400	43	.089	14,700	17,000
29	.136	34,300	39,700	44	.086	13,730	15,900
30	.1285	30,800	35,700	45	.082	12,450	14,400

1-6 MAIN BURNER ADJUSTMENT

The primary air shutter of each main burner must be properly adjusted for the correct air-gas ratio. Adjust the shutter by closing it sufficiently to give a blue flame with a yellow tip. Next open the shutter until the yellow tips are at a minimum. Securely lock the shutter in position by tightening the screw after adjusting the shutter.

1-7 EXHAUSTING

Exhausting of the dryer(s) should be planned and constructed so that no air restrictions occur. Any restriction due to pipe size or type of installation can cause slow drying time, excessive heat, and lint in the room.

From an operational stand-point, incorrect or inadequate exhausting can cause a cycling of the high limit thermostat which shuts off the main burners and results in inefficient drying.

Individual exhausting of the dryers is recommended. All heat, moisture, and lint should be exhausted outside by attaching a pipe of the proper diameter to the dryer adapter collar and extending it out through an outside wall. This pipe must be very smooth on the inside, as rough surfaces tend to collect lint which will eventually clog the duct and prevent the dryer from exhausting properly. All elbows must be smooth on the inside. All joints must be made so the exhaust end of one pipe is inside the next one downstream. The addition of an exhaust pipe tends to reduce the amount of air the blower can exhaust. This does not affect the dryer operation if held within practical limits. For the most efficient operation, it is recommended that no more than 20 feet of straight 8" diameter pipe be used with two right angle elbows. When more than two elbows are used, two feet of straight pipe should be removed for each additional elbow. No more than four right angle elbows should be used to exhaust a dryer.

If the exhaust pipe passes through a wall, a metal sleeve of slightly larger diameter should be set in the wall and the exhaust pipe passed through this sleeve. This practice is required by some local codes and is recommended in all cases to protect the wall.

This type of installation should have a means provided to prevent rain and high winds from entering the exhaust when the dryer is not in use. A hood with a hinged damper can be used for this purpose. Another method would be to point the outlet end of the pipe downward to prevent entrance of wind and rain. In either case, the outlet should be kept clear of any objects by at least 24" which would cause an air restriction.

Never install a protective screen over the exhaust outlet.

When exhausting a dryer straight up through a roof, the overall length of the duct has the same limits as exhausting through a wall. A rain cap must be placed on top of the exhaust and must be of such a type as to be free from clogging. The type using a cone shaped "roof" over the pipe is suitable for this application.

Exhausting the dryer into a chimney is not recommended under any conditions even though the chimney is being used for other exhausting. Neither is exhausting under a building recommended. In both cases, there is danger of build-up of fine lint over a period of time.

Installation of several dryers where a main discharge duct is necessary, will need the following considerations for installation (see Fig. 1-1). Individual 8" ducts from the dryers into the main discharge duct should be at a 45° angle in the direction of discharge air flow.

NOTE: Never install the individual 8" ducts at a right angle into the main discharge duct. The individual ducts from the dryers can enter at the sides or bottom of the main discharge duct. Figure 1-1 indicates the various round main duct diameter to use with the individual dryer ducts. The main duct can be rectangular or round, provided adequate air flow is maintained. For each individual dryer, the total exhausting (main discharge duct plus duct outlet from the dryer) should not exceed the equivalent of 20 feet and two elbows. The diameter of the main discharge duct at the last dryer must be maintained to exhaust end.

NOTE: A small diameter will restrict air flow; a larger diameter will reduce air velocity — both contributing to lint build up. Inspection door for periodic clean-out of the main duct should be provided.

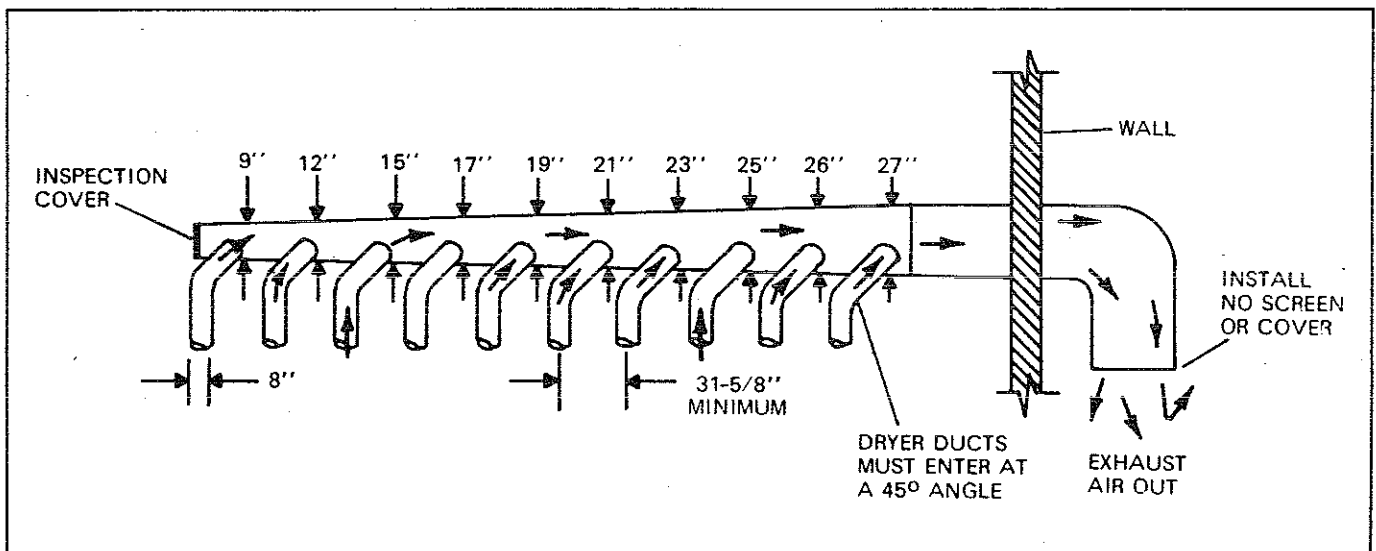


Figure 1-1. Dryer Exhausting Using A Main Discharge Duct

1-8 OPERATING INSTRUCTIONS

1. Place the clothes load to be dried in the cylinder and close the dryer door.
2. Set the temperature selector to the desired setting for the type of clothes to be dried.
3. Insert coin(s) into coin slots at the upper right hand corner on coin operated models. Turn knob until coin drops. Depress push to start button until dryer continues to run when button is released.

NOTE: On manual models, turn timer knob to set time desired and depress push to start button as above.

IMPORTANT: Normally, dryer operation will continue uninterrupted through the complete cycle determined by number of coins inserted (or time set on timer). However, opening the loading door will interrupt the circuits and the drive motor and main burners will cease to function. The signal light will remain on and the time cycle will continue independent of the interruption until expiration of the time purchased or closing of the door and the starting procedure repeated.

4. The drying time depends of the size of the load and the type of clothes, the amount of water left in the clothes from the washer, and the room temperature and humidity.
5. When the temperature selector lever is set on the "Warm" or "Medium" setting, there is an automatic cool down period of approximately one minute at the end of the cycle. During the cool down period, the dryer tumbles and the blower operates with the heat off to cool the clothes.

NOTE: If the temperature selector lever is set on "Hot" the cool down period is eliminated.

SPECIFICATIONS

MODEL DZ3 SERIES

DZH3 Direct Ignition with Heat Reclaimer, 120V.-60 Cy.
DZF3 Direct Ignition, 120V.-60 Cy.
DZH3H-27 Direct Ignition with Heat Reclaimer, 220V.-50/60 Cy.
(available only in white with Manual Timer)
DZH3-27 Coin Meter must be specified - colors optional

SUFFIX LETTERS DENOTING COIN METER:

D — 10¢
Q — 25¢
DQ — Dual 10¢/25¢
H — Manual Operated—60 Min. Timer

SUFFIX LETTERS DENOTING COLOR:

No Suffix — White
HG — Harvest Gold
A — Almond
BO — Burnt Orange

NOTE: Above models adaptable to Natural or L.P. Gas.

CAPACITY: 30 pounds of clothes - dry wgt.

AIR MOVEMENT: 815 C.F.M.

CYLINDER SPEED: 47 R.P.M.

MOTOR: ½ H.P.—ball bearings, capacitor start, thermally protected.

AIR TEMPERATURES: (Max.) HOT—200° F. MEDIUM—165° F. WARM—145° F.

COOL DOWN: Approx. one minute at end of cycle on WARM and MEDIUM settings. (No cool down on HOT setting).

GAS REQUIREMENTS: 90,000 B.T.U. /Hr. 3.5 in. of water column pressure for Natural Gas, and 11.0 in. water column for L.P. Gas.

WEIGHT: 495 lbs. Crated.

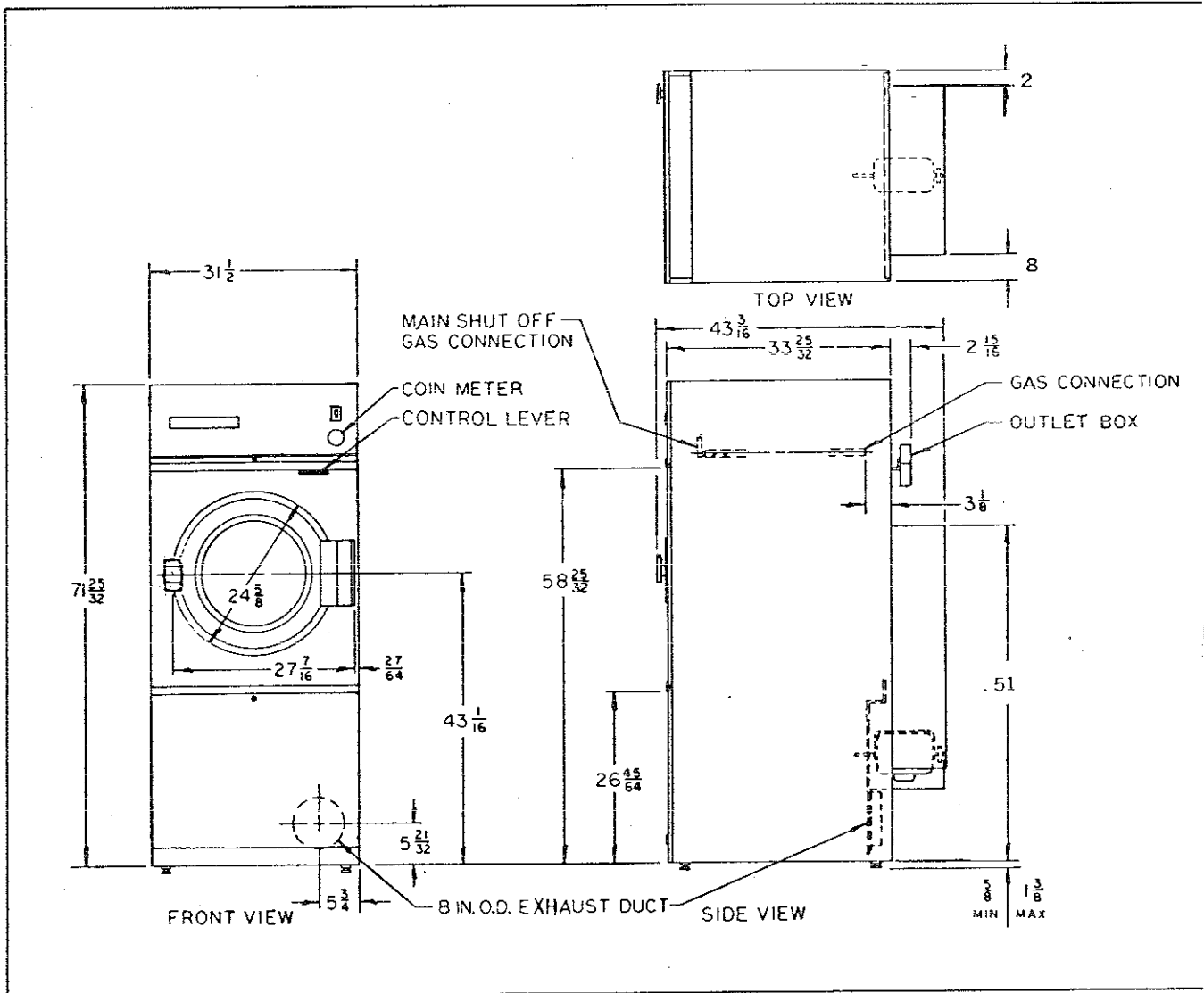
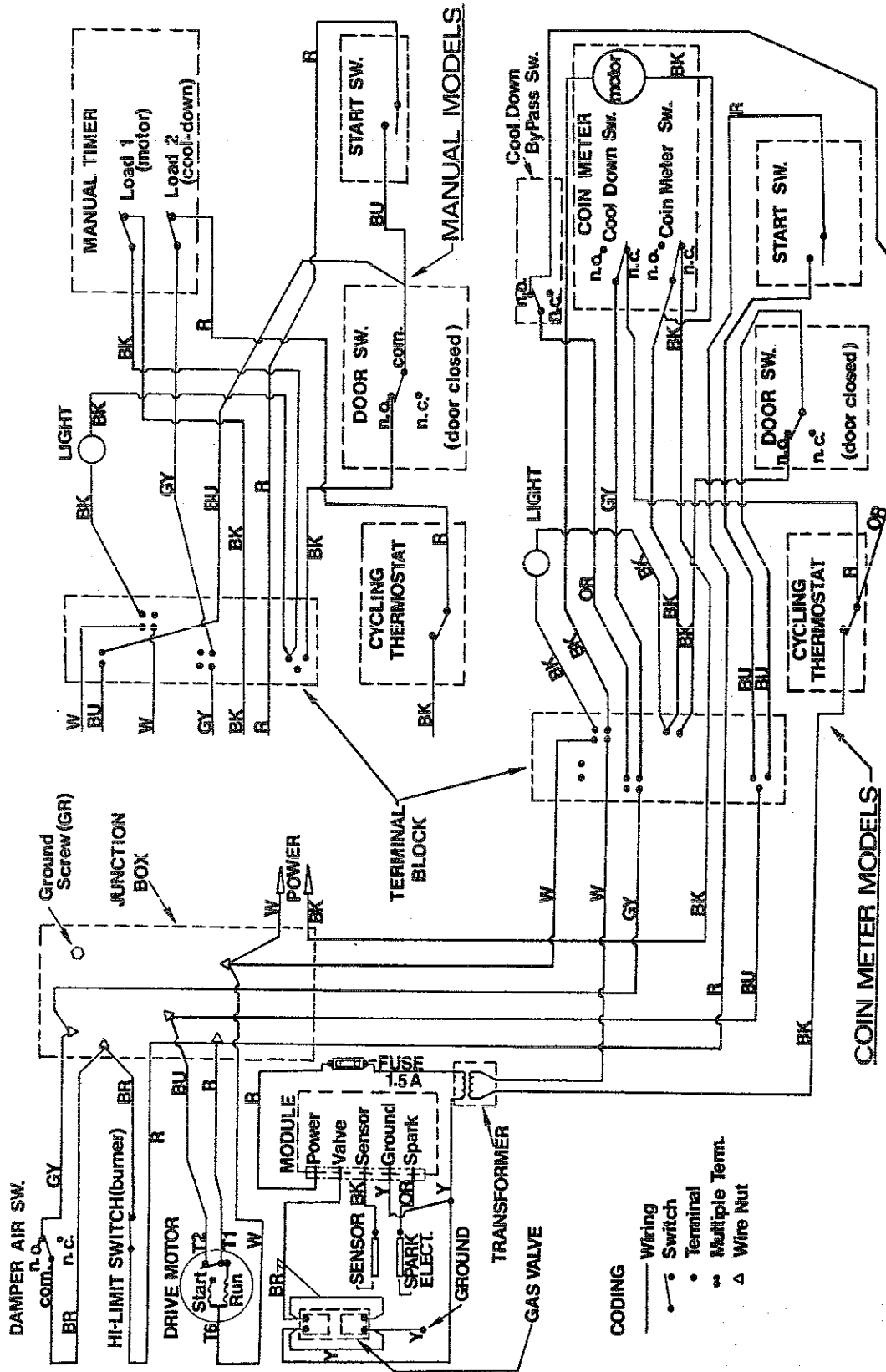


Figure 1-2. Dimensions

Wiring Diagram Fig. 2-1



Section 3

SERVICE PROCEDURES

Model DN3 Series

3-1 UPPER SERVICE DOOR REMOVAL

1. Insert key and unlock. Pull door out from bottom and lift to horizontal position. Swing door support wire until it engages with front lip of door and holds it in the raised position. (Refer to figure 3-1).
2. Disconnect wires from push to start switch.
3. Drive the center pins out of the hinge (1 on each side) and retain the pins.
4. Pry the hinges carefully from the door and cabinet.

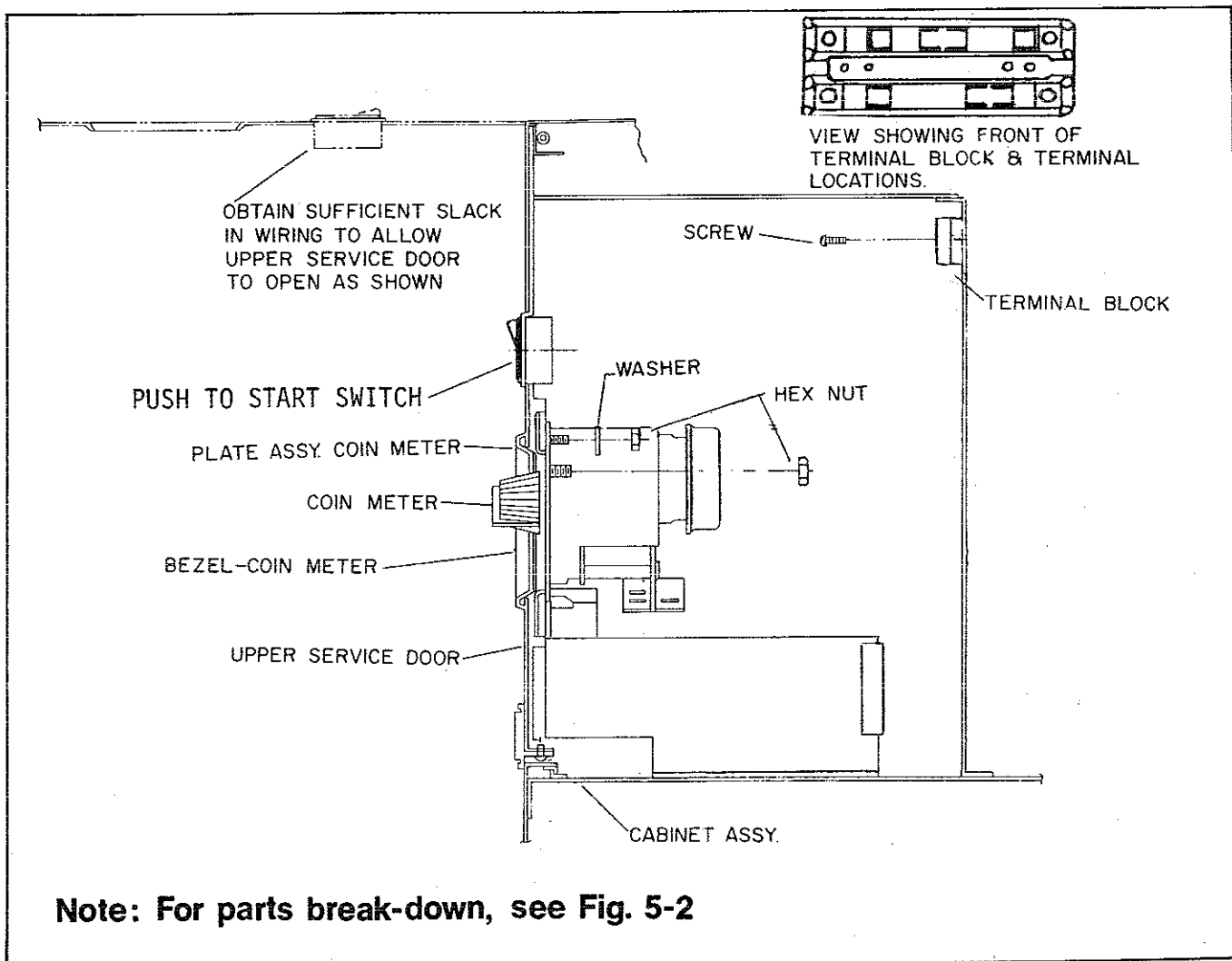


Figure 3-1. Upper Service Door

3-2 COIN METER REMOVAL

The coin meter is located on the right side of the upper service door.

1. Remove the three hex head screws on the meter panel door (two on the right hand side and one on the left hand side) and remove door.

NOTE: For ease of servicing parts in the meter housing and the coin meter, this assembly can be hung in the slots provided in the door panel and cabinet assembly.

2. Remove the four hex nuts holding the meter in place and lift meter off the mounting studs. (Refer to Fig. 3-1).
3. Disconnect the meter wires from the terminal block and other wires from the meter.

3-2A TIMING SPECIFICATIONS

To assist you in determining the length of time allowed for each increment (coin) for the various cams available, we offer the following chart.

30 MINUTE TIMING MOTOR

Greenwald Timing Cam #	No. of Pins	Single Coin Meter	Dual Coin Meter		Dexter Part No.
			10¢	25¢	
59-439-1	1	30	30	90	
59-439-2	2	15	15	45	9095-032-009
59-439-3	3	10	10	30	9095-032-010
59-439-4	4	7 1/2	7 1/2	22 1/2	9095-032-006
59-439-5	5	6	6	18	9095-032-007
59-439-6	6	5	5	15	9095-032-002
59-439-7	7	4 1/3	4 1/3	13	9095-032-011
59-439-8	8	3 3/4	3 3/4	11 1/4	9095-032-001
59-439-9	9	3 1/3	3 1/3	10	9095-032-003
59-439-10	10	3	3	9	9095-032-004
59-439-11	11	2 3/4	2 3/4	8 1/4	
59-439-12	12	2 1/2	2 1/2	7 1/2	9095-032-005

NOTE: All replacement parts for the coin meter except those listed in the parts list section of this manual are to be purchased from:

Greenwald Industries, Inc.
1340 Metropolitan Ave.
Brooklyn, N.Y. 11237
Telephone: (212) 456-6900

3-3 TIMER REMOVAL (MANUAL OPERATED MODELS ONLY)

1. Repeat step 1 in paragraph 3-2.
2. Remove the two hex nuts holding the timer assembly to the mounting plate.
3. Remove timer knob by gently prying off of timer shaft.
4. Remove the two screws holding the timer dial and timer to the mounting plate.

3-4 CLOTHES DOOR REMOVAL

1. Remove the six hex head screws securing the clothes door and hinge assembly to the cabinet front panel.

3-5 INSTALLATION AND ADJUSTMENT OF CLOTHES DOOR

1. Replace the door as indicated in paragraph 3-4.
2. Tighten the mounting screws lightly until the door will just support itself on the hinge. Align the door centrally in the front panel opening and center the actuator pin in the hole. Tighten the screws securely.

3-6 CLOTHES DOOR WINDOW AND GASKET REMOVAL

1. Remove the clothes door.
2. Block up the clothes door on a solid surface. Exert a pressure on the window circumference and push the window to free it from the gasket.

3-7 INSTALLATION OF CLOTHES DOOR WINDOW AND GASKET

1. Place the clothes door, with its face down, on a solid surface.
2. Install the window gasket around the clothes door flange. The wider lip of the gasket should be on the bottom side or front face of the clothes door.
3. Install the door glass support into the gasket at the bottom of the clothes door.
4. Lay the window glass on the gasket. Apply a soapy water solution liberally around the circumference of the window.

5. Raise the gasket lip at its end over the glass with a blunt nosed tool. A 4" screwdriver shaft ground to a blunt point will serve this purpose.
6. Work the gasket lip over the glass around its circumference. While performing this operation keep the window positioned in the gasket. Apply the soapy water solution where necessary to facilitate this operation.
7. Finally, position the gasket with the palm of the hand to evenly distribute it around the window and clothes door

3-8 DISASSEMBLY OF MAGNETIC DOOR HANDLE

1. Remove the two allen screws attaching the handle assembly to the door.
2. Drive the roll pin out of the handle until the pole blocks and magnets can be removed.

3-9 DOOR SWITCH REMOVAL AND INSTALLATION

1. The door switch is located directly behind the hinge plate of the loading door assembly. Remove the two screws holding the switch box cover in position. This will allow the removal of the cover and the switch actuator plate.
2. The entire switch box can now be pulled from the front panel opening, creating access to the door switch mounting screws.
3. Remove these two mounting screws and twin nut which frees the door switch and insulating shield. Remove wires.
4. When installing the door switch make certain the insulating shield is reassembled.
5. The actuator plate and switch box cover should be assembled as illustrated in Fig. 5-4.

3-10 LOWER SERVICE DOOR REMOVAL

1. Insert the key and unlock door.
2. Pull top of door out from cabinet and lift to remove door from bottom pin slots.

3-11 FRONT PANEL REMOVAL

1. Remove lower service door and raise upper service door.
2. Remove temperature control lever knob.
3. Remove the two wires from the terminal block which go to the door switch. The wires are removed with the panel assembly.
4. Remove the screws from sides, bottom, and top of the front panel that secures it to the cabinet.

3-12 LINT SCREEN AND LINT TRAP HOOD REMOVAL

1. Remove lower service door.
2. Slide lint screen up and out of screen guide angles (Refer figure 3-2).
3. Remove the six hex nuts that secure the lint trap hood to the blower housing assembly. Pull out to remove lint trap hood (Refer figure 3-3).

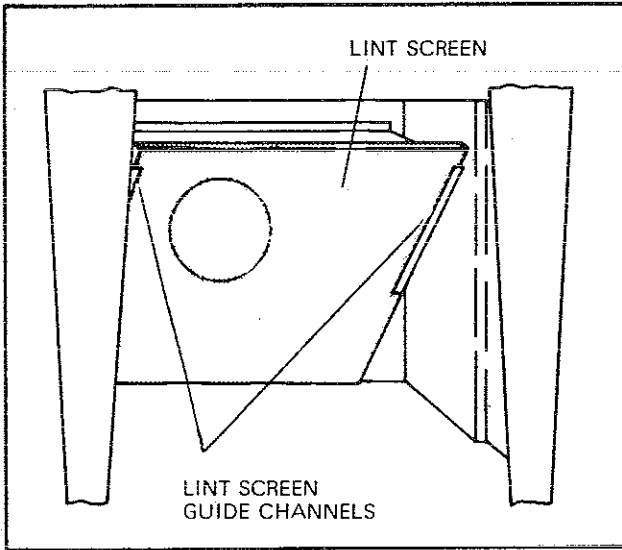


Figure 3-2. Lint Screen

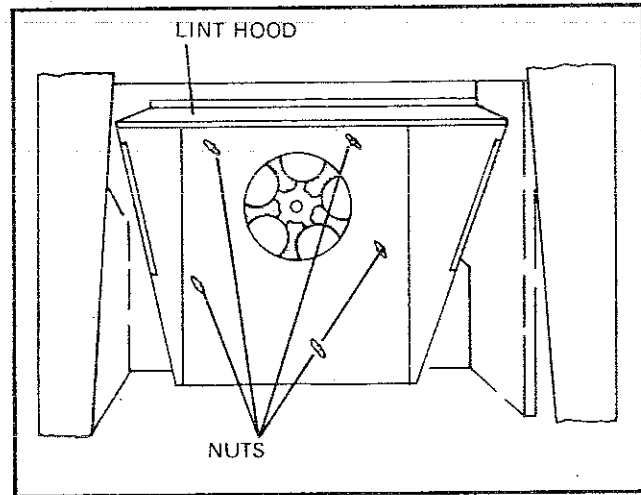


Figure 3-3. Lint Trap Hood

3-13 BLOWER IMPELLER REMOVAL (Refer figure 3-4)

1. Locate the two allen screws in the impeller hub.
2. Attach a wheel puller behind the blades on the impeller hub, remove the impeller from the motor shaft. This method of removal is recommended to prevent any damage to the motor.

3-14 DAMPER SWITCH REMOVAL AND ADJUSTMENT (Refer figure 3-5)

1. Remove lower service door.
2. Remove lint screen and lint trap hood.
3. Remove switch shield by pulling out of slots.
4. Remove screws securing damper switch to bracket.
5. Adjust the damper switch by use of the adjusting screw in the switch arm so the switch operates when the damper is approximately 30° from the extreme up position.

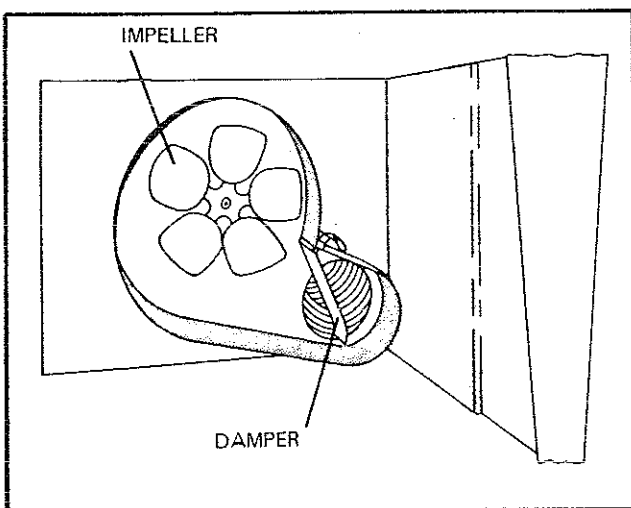


Figure 3-4. Blower Impeller

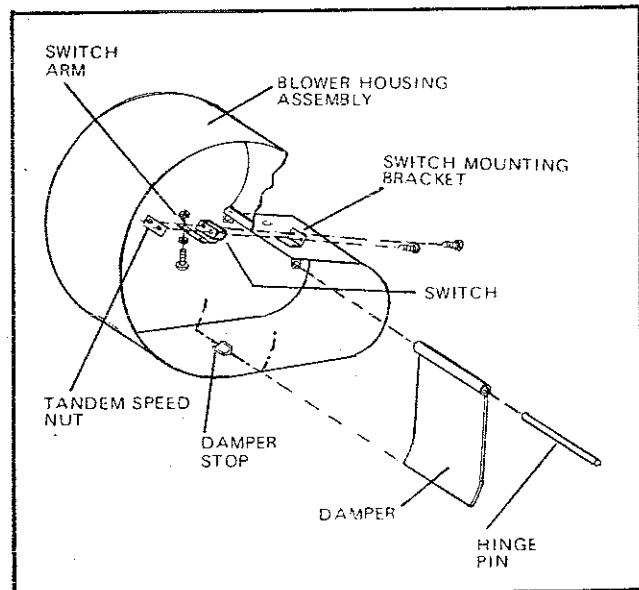


Figure 3-5. Damper Switch Assembly

3-15 TEMPERATURE CONTROL THERMOSTAT AND COOL DOWN BY-PASS SWITCH

1. Remove lower service door, lint screen and lint trap hood.
2. Press the two split grommets, holding the thermostat sensor bulb, out of the baffles and in toward the bulb. Remove the grommets, and pull the sensor bulb and capillary tube away from the baffles.
3. Remove the capillary grommet from the cabinet back and the control housing back. Remove all capillary clips. Pull the sensor bulb and capillary tube out through the back of the cabinet.
4. Open the upper service door and remove the temperature selector lever knob (Refer figure 3-6).
5. Remove the wire leads connected to the thermostat terminals and the cool down by-pass switch terminals.
6. Remove the hex head screws holding the thermostat and mounting bracket assembly to the control housing.
7. Slide the control lever back free of the front panel opening and remove the entire assembly.
8. Disassemble the thermostat and/or by-pass switch as necessary.

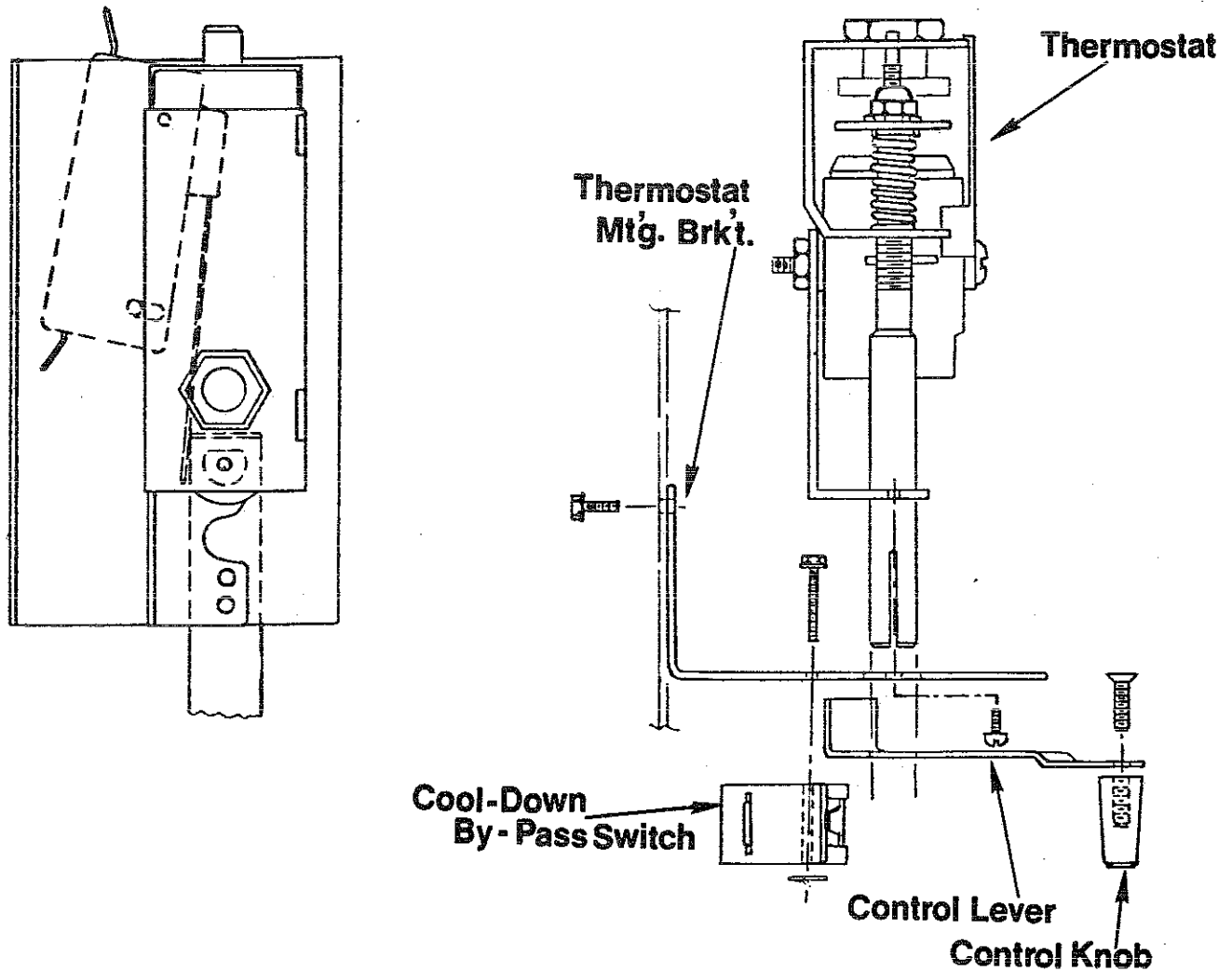


Figure 3-6. Control Thermostat and Cool Down By-Pass Switch

3-16 CONTROL THERMOSTAT TEMPERATURE CHECK

1. To check the temperature at which the control thermostat is cycling off, place a thermocouple or shake down thermometer in the exhaust vent outlet at the back of the dryer. The stabilized temperature at this point with the temperature selector lever set on "Hot" should read approximately 170° F. This indicates the temperature at the capillary bulb on the thermostat is approximately 200° F.
2. Run several cycles to allow temperatures to stabilize and several temperature readings are identical.

3-17 TO RECALIBRATE THERMOSTAT (REFER FIGURE 3-7)

1. Turn nut "A" clockwise to increase temperature and counterclockwise to decrease temperatures.
2. $\frac{1}{4}$ turn of nut "A" on thermostat will affect temperature approximately 15° F.
3. Recheck as noted above, to determine if calibration has been corrected.

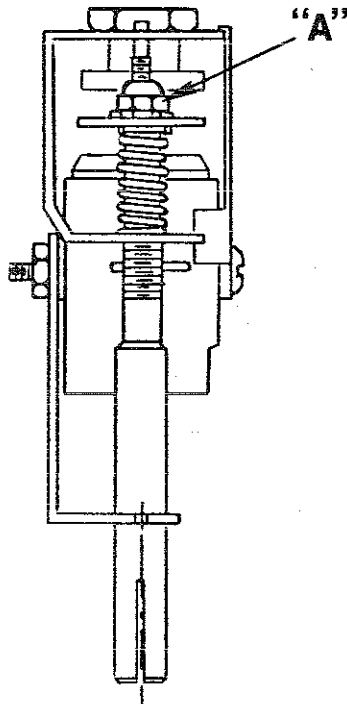


Figure 3-7 Recalibration of Control Thermostat

3-18 HIGH LIMIT THERMOSTAT—FUNCTION & REMOVAL

The hi-limit thermostat is designed into the dryer to open the circuit to the main burners in the event of malfunction in the gas control area or control thermostat. On heat reclaiming models (DZH3) the hi-limit opens at 300° F. and resets or closes at 250° F. On non-heat reclaiming models (DZF3) the hi-limit opens at 225° F., and closes at 185° F.

1. The thermostat is located on the upper left side of the burner housing. Remove the guard and wires connected to the hi-limit thermostat.
2. Remove the screws securing the thermostat to the bracket.

NOTE: Save spacers between the thermostat and bracket — use on reassembly.

3-19 GAS CONTROL VALVE ASSEMBLY

The redundant gas valve shown in Figure 3-8 includes two automatic coil operated valves, a pressure regulator and a shut-off valve, which in this application is a secondary shut-off valve. The primary or main shut-off valve should be used whenever servicing is required.

This gas valve assembly is controlled by the Electronic Module, and is convertible in the field from natural gas (3.5 in. w/c.) to liquefied petroleum gas (11.0 in. w/c.) setting. Refer to parts listing for L.P. Kit.

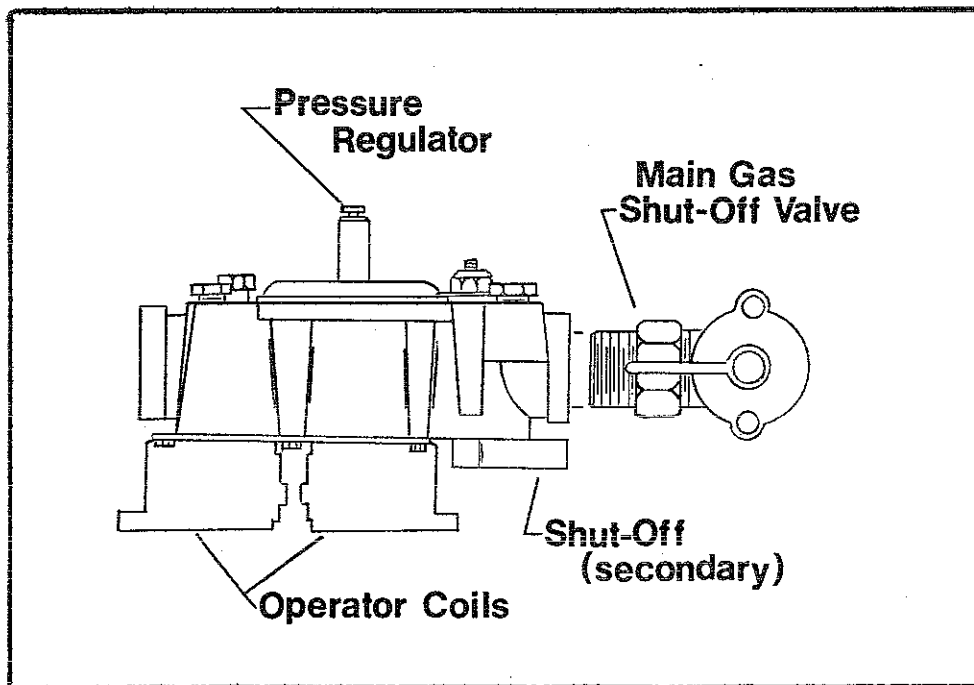
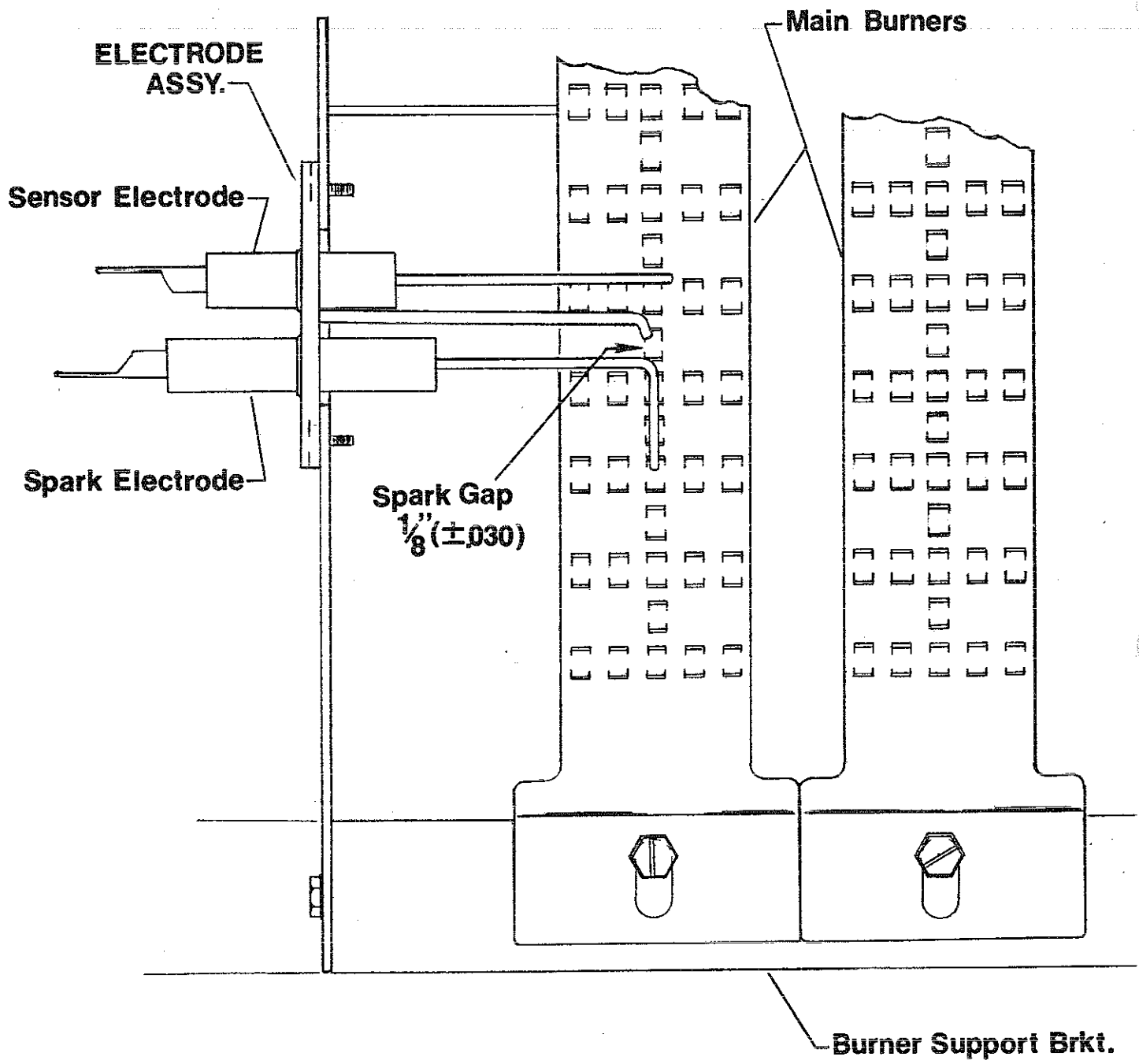


Figure 3-8. Gas Valve



IMPORTANT:
 Electrodes are positioned $\frac{3}{8}$ " above burner surface.
 Electrode ends are centered to burner.

Fig. 3-9

3-20 ELECTRONIC MODULE—FUNCTION

1. The electronic module (gray box) is located along side the transformer, inside the upper service door. The red wire from the transformer, thru the 1.5 Amp fuse and into the module, supplies the 24 Volts current to operate the entire direct ignition system.
2. The orange colored hi-voltage (spark plug type) wire plugs onto the post connection on the module, and the multi-wire plug fits into the side of the module. (See Figure 5-11 for illustration).

3-21 SPARK ELECTRODE ASSEMBLY—FUNCTION

1. The spark and sensing electrodes are located directly over the left side burner inside the burner housing.
2. The electrode with the orange hi-voltage wire conducts the spark to the center grounding probe, directly over the burner (See Figure 3-9)
3. The electrode with the black sensing wire detects ignition and monitors flame by signaling the module.

NOTE: Proper grounding of the ignition system (yellow wires) is very critical for proper ignition sequence.

3-22 IGNITION SYSTEM—FUNCTION & SEQUENCE

During normal dryer operation, the following occurs:

1. The temperature control thermostat closes and calls for heat.
2. Circuit is completed thru transformer and module (gray box) and power is applied to the gas valve and at the same time sparking occurs at the ignition electrode.
3. Once the flame is established, the sparking stops and the sensing electrode detects the presence of flame.
4. If for any reason the flame is not established in a period of 10 seconds, the gray box shuts down the sparking and closes the gas valve which is now in "Safety Lock-Out". Normally the 10 seconds "Trial For Ignition" period is ample in establishing proven flame.
5. If the flame is shut-down or blown out during operation, the ignitor will immediately go into "Trial For Ignition" again for 10 seconds.
6. **However, if during any 10 second "Trial For Ignition", the flame is not established, the ignition system goes into "Safety Lock-Out" and will not reactivate the "Trial For Ignition" until there is a current interruption for a period of 10 seconds. This interruption can be provided by opening the dryer loading door.**

3-23 IGNITION SYSTEM—CHECK OUT

1. If flame is present during "Trial For Ignition" period but the system shuts down, there is an improper ground. The entire ignition system is grounded together including the electrode assembly, the electrode mounting bracket, the burners and the burner bracket.
2. If there is no spark or intermittent spark, note spark gap and electrode location on Figure 3-9. **(THESE SPACINGS ARE IMPORTANT.)** Next, check for cracks in the ceramic insulator. Replace electrode assembly if necessary. Also check for carbon or foreign material on the electrodes. Clean if necessary, but be certain of gap and spacing when completed.
3. Check orange hi-voltage lead wire for damage or cracks in insulation. **(This lead wire must not be taped or connected to any metal edges along its length to prevent pinching and arcing. Also, do not bundle this wire with other wires.)**

3-24 SPARK ELECTRODE ASSEMBLY—REMOVAL

1. Disconnect wires to electrodes.
2. Remove one screw fastening the electrode mounting bracket to the burner support bracket. The entire assembly will slip out for ease of servicing.

3-25 GAS VALVE & MANIFOLD REMOVAL

1. Close off gas supply at main shut-off valve (See Figure 3-8). Remove two screws from manifold support bracket.
2. Loosen and remove gas connection between main shut-off valve and gas control valve. Disconnect wires to valve coils. This will allow removal of gas valve and manifold assembly.

3-26 MAIN BURNER ORIFICE REMOVAL

1. Remove manifold from gas valve assembly.
2. Using an open end wrench, remove orifices from manifold.

3-27 MAIN BURNER REMOVAL

1. Remove the screw securing each burner to the burner support bracket.
2. Remove the screw securing the electrode mounting bracket to the burner support bracket, and swing the entire electrode assembly to the side in order to clear the burners when lifted out.

3-28 PRESSURE REGULATOR ADJUSTMENT

Use the following procedure whenever it is necessary to check the pressure regulator setting.

NOTE: Any adjustment of the pressure regulator must be made with a manometer attached at the plug in the main burner manifold.

1. Shut off the gas supply to the dryer.
2. Remove the 1/8" pipe plug from the main burner manifold.
3. Attach a manometer to the manifold part.
4. Remove the pressure regulator cover screw on the gas valve.
5. Open the shut-off valve, and operate the dryer.
6. Adjust the pressure for a manometer reading of 3.5" water column gas pressure. (11.0" on L.P.)

NOTE: The main burners must be operating when adjusting the pressure regulator.

7. Shut off the gas supply to the dryer. Remove the manometer and install the 1/8" pipe plug in the manifold.
8. Open the shut off valve, and check for gas leaks.

3-29 MOTOR AND IMPELLER REMOVAL

1. Remove the drive guard from the back.
2. Remove the four screws holding the impeller cover plate to the back panel.

3. Remove the two set screws (90° apart) on the motor pulley and remove the pulley.
4. Remove the terminal cover plate from the motor and remove the wiring from the terminals and the conduit from the motor.
5. Remove the motor mounting nuts, washers and lockwasher securing the motor to the motor bracket.

3-30 DRIVE BELT REMOVAL

1. Grasp and slide the drive belt off the intermediate pulley. (Refer figure 3-10).

3-31 DRIVEN BELT REMOVAL

1. Grasp and slide the driven belt off the driven pulley as the driven pulley is rotated. (Refer figure 3-10).

NOTE: Be sure the tension spring is in place when belts are replaced.

3-32 CYLINDER PULLEY REMOVAL

1. Remove nut holding pulley to cylinder shaft.

NOTE: Do not lose locking key in cylinder shaft when removing pulley.

3-33 INTERMEDIATE PULLEY AND TENSION ARM REMOVAL (Refer figure 3-10).

1. The intermediate pulley can be removed by removing the snap rings holding the pulley to the tension arms.
2. With the pulley and tension spring removed, remove the snap ring from the center drive pin. The tension arms can now be removed in two pieces.

NOTE: Be sure and note the position in which the tension arms are removed.

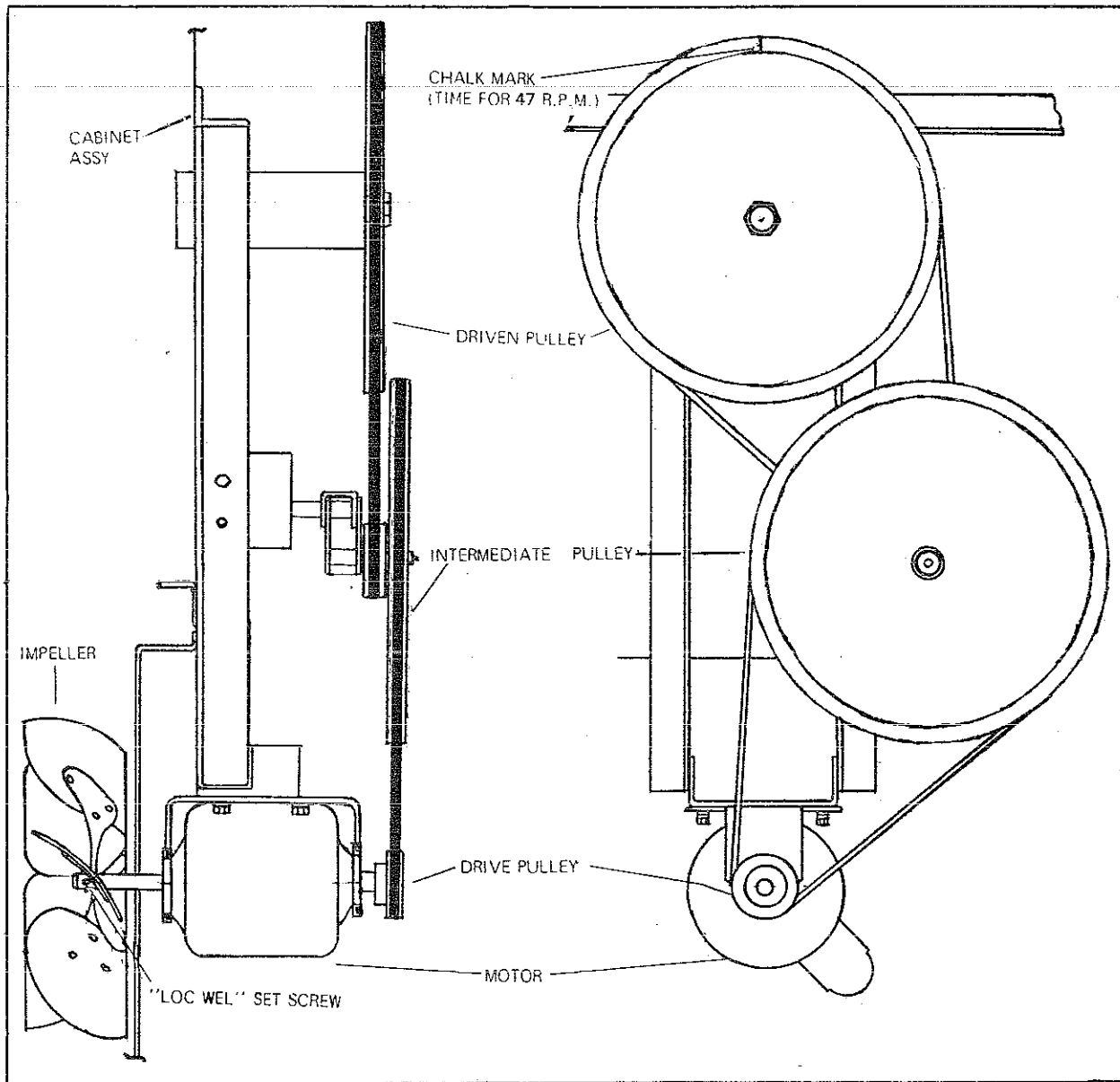


Figure 3-10. Pulley and Belt Assembly

3-34 CYLINDER REMOVAL

1. Remove front panel.
2. Remove driven belt, cylinder pulley, and key from cylinder shaft.
3. From the front of the machine, remove the cylinder and spider assembly. (Refer figure 3-11).

4. To reassemble, the cylinder shaft must be guided into and through the tumbler bearing housing assembly. A dummy shaft will be required for insertion into the rear of this housing assembly. This will line up the bearing spacer with the bearings in the housing assembly. (Refer figure 3-12).

NOTE: Be sure the cylinder is pushed all the way to the rear. If there is any doubt use the cylinder pulley and nut as a puller to position cylinder properly.

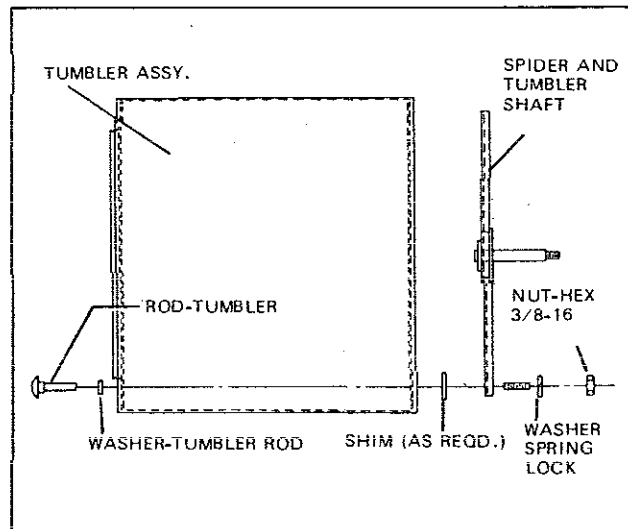


Figure 3-11. Tumbler Assembly

3-35 ADJUSTMENT OF CYLINDER WITH FRONT PANEL IN POSITION (Refer figure 3-12).

1. Loosen the two top adjusting bolts and two bottom adjusting nuts and lock nuts holding the bearing housing to the drive plate.
2. Loosen the four mounting bolts on the side channels and remove all shims. (Save for reuse if necessary).
3. Open the clothes door and insert a $\frac{1}{2}$ " thick shim at the 3 and 9 o'clock position between the front panel flange at the door opening and the opening in the cylinder. Insert a $\frac{3}{4}$ " thick shim at the 12 o'clock position and a $\frac{1}{4}$ " thick shim at the 6 o'clock position.
4. Tighten the two bottom adjusting nuts and tighten locking nuts.
5. Tighten the bottom right mounting bolt, then the top left mounting bolt. Tighten the remaining two bolts. (Shim where and if necessary).
6. Tighten the two top adjusting bolts.
7. Remove all the shims from between the front panel flange and cylinder (3,6,9, and 12 o'clock).
8. Spin the cylinder to check for rubbing against baffles, pressing down hard while rotating. If rubbing is detected, repeat procedure paying particular attention to placement of shims between bearing housing and side channels.

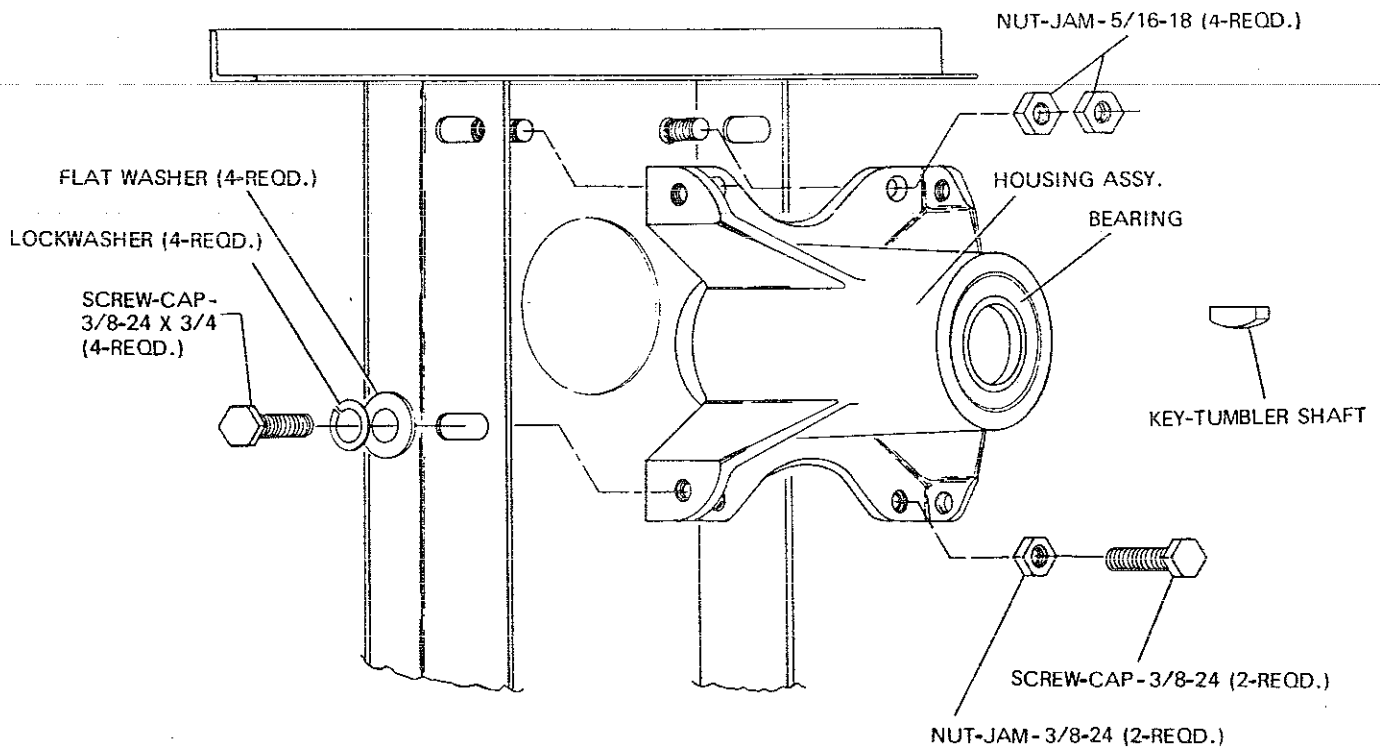


Figure 3-12. Tumbler Bearing Assembly

3-36 BEARING HOUSING BEARING REMOVAL (Refer figure 3-12).

1. With the cylinder removed, insert a punch through the rear bearing and spacer and drive the front bearing out of the bearing housing.
2. From the front of the machine drive out the rear bearing in like manner.

NOTE: To replace drum bearings, keep in mind the bearings must be flush with the bearing housing. Replacing the bearings may be accomplished by either of the following methods.

- A. Place the spacer in the bearing housing. Position the bearings, one at a time, and using a rubber mallet, drive each bearing in flush with the bearing housing.
- B. By using a $\frac{7}{8}$ " bolt and nut 10" long and two $\frac{7}{8}$ " washers. Place a washer over the bolt and place a bearing and the spacer over the bolt. Slip bolt and spacer through the bearing housing. Place the other bearing over the bolt. Locate both bearings squarely in bearing housing. Place washer and nut on bolt. Tighten nut until both bearings are flush with the ends of the bearing housing.

Section 4

PREVENTIVE MAINTENANCE INSTRUCTIONS and TROUBLE SHOOTING GUIDE

4-1 PREVENTIVE MAINTENANCE

DAILY

1. Clean lint screen. Use soft brush if necessary.
2. Check lint screen for tears or holes. Replace if necessary.
3. Clean lint from screen compartment.

MONTHLY

1. Remove lint accumulation from end bells of motor.
2. Remove lint from meter compartment and meter mechanism.
3. Remove lint and dirt accumulation from top of the dryer and all areas above, below and around the burners and burner housing. Failure to keep this portion of the dryer clean can lead to a build-up of lint creating a fire hazard.
4. Place a few drops of light oil on clothes door hinge.
5. Grease bearings and shaft of intermediate drive pulley. Use Alemite gun and grease No. BRS-2 Molycote.

QUARTERLY

1. Check all belts for looseness, wear or fraying.
2. Inspect gasket of door glass for excessive wear.
3. Check tightness of all fasteners holding parts to support channel.
4. Check tightness of all set screws.
5. Inspect impeller for tightness of blades to hub.
6. Check tightness of cylinder shaft retaining nut.
7. Remove back inspection plate and check tumbler thru-bolts for tightness.
8. Remove lint accumulation from primary air ports in burners.
9. Oil each moving part of coin mechanism with drop of light oil.
10. Grease pivot pins and tension arms where in contact with each other.

SEMI-ANNUALLY

1. Remove and clean main burners.
2. Remove all orifices and examine for dirt and hole obstruction.
3. Remove all lint accumulation. Remove front panel, lint screen housing and remove lint accumulation.

ANNUALLY

1. Check intermediate pulley bearings for wear.
2. Check and remove any lint accumulation from exhaust system.

4-2 TROUBLE SHOOTING GUIDE

PROBLEM	PROBABLE CAUSE	REMEDY
MOTOR (TUMBLER) DOES NOT TURN	1. Loading door not closed — Door switch not made.	Close door completely.
	2. Coin meter energized. — Is "ON" Light on.	Activate meter.
	3. Push-Start Switch Operation	Hold switch in until motor is at full speed.
	4. Wire connections between switch, coin meter, and motor.	Check Wire Connections.
	5. Motor thermal protection is tripped out—overheated	Vacumn lint out of front end of motor.
	6. Motor inoperative	Check capicator and motor.
	7. Push — Start Switch inoperative	Check and Replace.
	8. Broken Drive Belt	Check and Replace.
MOTOR (TUMBLER) TURNS, BUT NO SPARK AT BURNER	1. Fuse Blown 1.5A (located near transformer.)	Check for cause — replace.
	2. Control Thermostat inoperative	Check and Replace
	3. Transformer inoperative	Should have 24V. at secondary side.
	4. Blower damper not operating (damper plate or switch)	Adjust plate or switch operation — See Fig. 3-5
	5. Electronic Module inoperative	Check and Replace.
	6. Spark Gap at Electrode Assy.	Gap spec. $\frac{1}{8}$ " \pm .030
	7. Improper ground (yellow grounding wires)	Clean and Replace wire and connections as needed.
	8. Spark System locked out	Open loading door to break circuit—wait 30 sec.—try again.
	9. Hi-Limit Therm. inoperative	Check and Replace.

PROBLEM**PROBABLE CAUSE****REMEDY**

MOTOR (TUMBLER) TURNS AND SPARK IS OK, BURNERS DO NOT LIGHT



1. Gas not on
Check shut-off valve. Also check shut-off on main gas valve
2. Spark Electrode not centered over burner
Center electrode ends over center of burner.
3. Spark Electrode too far from burner (too high or low).
Check— $\frac{3}{8}$ " from burner to electrodes.
4. Improper gas pressure at manifold
Check pressure at plug in manifold — (see Fig. 5-11).
5. Inoperative coil on gas valve
Check gas valve operator coils — replace.
6. Bad wire connections from Elec. Module to valve
Check and Repair.

SLOW DRYING OR LOW TEMPERATURE IN DRYER



1. Incorrect thermostat lever positioning
To left is — low heat; to the right is — high heat.
2. Air restrictions —
 - A.) Lint screen clogged
Clean Lint screen.
 - B.) Improper exhaust system or clogged exhaust pipes
See installation instructions for exh. size — clean.
 - C.) Damper plate in Tee Assy. not opening
Clear damper plate movement
 - D.) Inadequate make-up air supply
Each dryer requires 1 sq. ft. make-up air.
3. Temp. Thermostat adjustment
Recalibrate (see Fig. 3-7)
4. Defective Hi-Limit Thermostat
Check and Replace.

Section 5

PARTS DATA

CABINET GROUP (Figure 5-1)

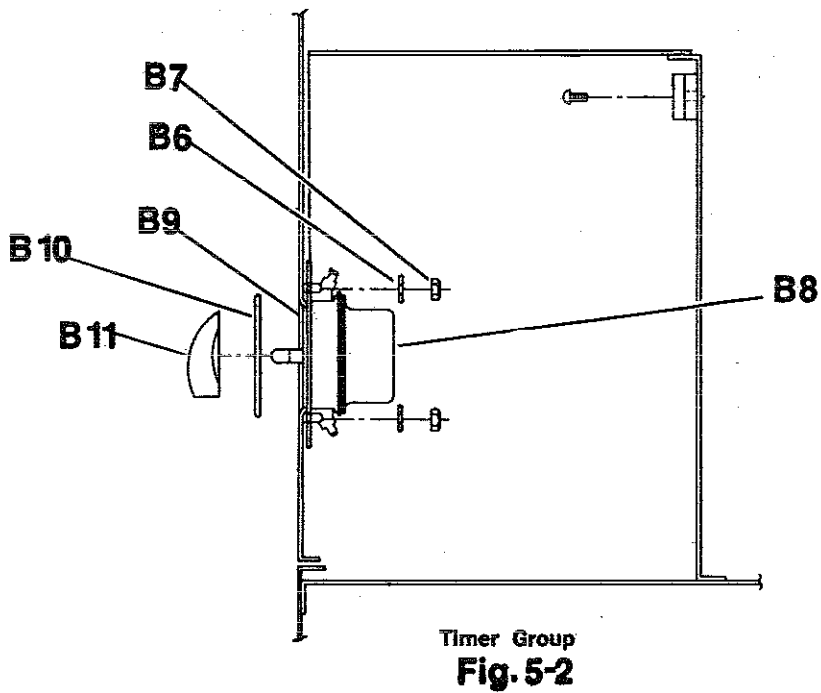
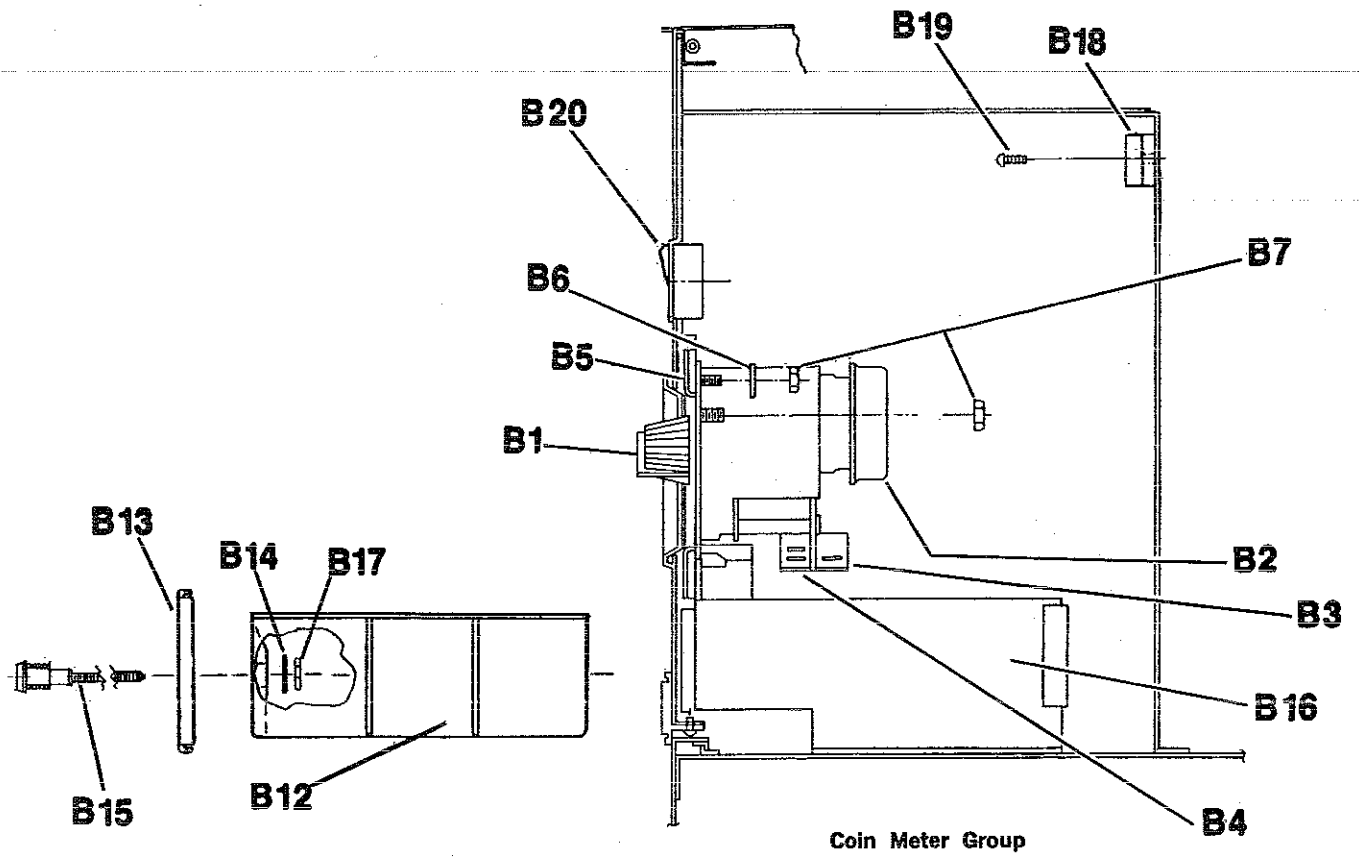
Key	Part Number	Description	D Z H 3	D Z F 3
A1	9989-396-013	Panel Assy., Front - Wh. -----	1	1
A1	9989-396-014	Panel Assy., Front - H.G. -----	1	1
A1	9989-396-015	Panel Assy., Front - Bnt. Or. -----	1	1
A1	9989-396-016	Panel Assy., Front - Alm. -----	1	1
A2	9545-008-002	Screw, Front Panel Mtg. -----	6	6
A2	8641-436-000	Washer, Fiber (under screw head) -----	6	6
*	8640-399-001	Nut, Spring (front panel to side panel) -----	4	4
A3	9960-251-006	Door Assy., Loading - Wh. (incl. items A3 thru A7) -----	1	1
A3	9960-251-007	Door Assy., Loading - H.G. (incl. items A3 thru A7) -----	1	1
A3	9960-251-008	Door Assy., Loading - Bnt. Or. (incl. items A3 thru A7) -----	1	1
A3	9960-251-009	Door Assy., Loading - Alm. (incl. items A3 thru A7) -----	1	1
A3	9960-248-008	Door Assy., Loading - Wh. -----	1	1
A3	9960-248-009	Door Assy., Loading - H.G. -----	1	1
A3	9960-248-010	Door Assy., Loading - Bnt. Or. -----	1	1
A3	9960-248-011	Door Assy., Loading - Alm. -----	1	1
A4	9212-002-003	Glass, Loading Door -----	1	1
A5	9206-164-003	Gasket, Door Glass -----	1	1
*	9548-117-000	Support, Door Glass -----	1	1
A6	9206-394-001	Gasket, Outer Door -----	1	1
A7	9451-167-001	Pin, Hinge -----	1	1
*	1W32275FA3	Screw, Loading Door Mtg. -----	6	6
*	9452-254-001	Plate, Strike -----	1	1
A8	9965-026-001	Handle Assy., Loading Door (incl. in-set items below) -----	1	1
*	9244-076-001	Handle, Door -----	1	1
*	8502-602-001	Decal, Insert-Handle -----	1	1
*	9054-015-000	Block, Pole -----	2	2
*	9384-001-002	Magnet -----	2	2
*	9451-171-001	Pin, dowell (holds magnets and pole blocks) -----	1	1
*	9545-019-001	Screw, Handle Assy., Mtg. -----	2	2
A9	9108-082-016	Door, Upper Service - Wood Grain -----	1	1
A10	8638-211-001	Rivet, Drive - Upper Door Mtg. -----	2	2
A10	1W52337FA3	Washer (under rivet head) -----	2	2
A11	9412-066-001	Nameplate - DEXTER -----	1	1
*	8640-326-001	Nut, Special (for nameplate) -----	2	2
A12	9578-073-001	Trim, Upper Door -----	1	1
A13	9055-053-001	Bezel, Meter -----	1	1
A14	9539-460-001	Switch, Push-To-Start -----	1	1
A15	8502-601-001	Decal, Push-To-Start -----	1	1
A16	8650-016-002	Lock, Upper Door -----	1	1
A16	6292-006-006	Key (For 8650-016-002) -----	1	1
*	9548-243-001	Support, Upper Door -----	1	1
A17	9960-243-001	Door Assy., Lower Service - Wh. -----	1	1
A17	9960-243-005	Door Assy., Lower Service - H.G. -----	1	1
A17	9960-243-006	Door Assy., Lower Service - Bnt. Or. -----	1	1
A17	9960-243-012	Door Assy., Lower Service - Alm. -----	1	1
A18	9578-059-002	Trim, Lower Door (Alum.) -----	1	1
A19	8650-006-003	Lock, Lower Door -----	1	1
A19	6292-006-006	Key (For 8650-006-003) -----	1	1
A20	9988-003-001	Trim, Kick Plate (brown plastic) incl. mtg. tape -----	1	1
A21	8544-005-000	Leg, Leveling -----	4	4

METER (TIMER) GROUP (Figure 5-2)

Key	Part Number	Description	DZH3 & DZF3			
			MANUAL	DIAL	QUARTER	DUAL
B1	9944-038-018	Meter Assy., Coin - 10¢ (30 min. clock) -----		1		
B1	9944-038-017	Meter Assy., Coin - 25¢ (30 min. clock) -----			1	
B1	9944-041-004	Meter Assy., Coin - Dual (30 min. clock) -----				1
B2	9376-212-001	Motor, Coin Meter (60 min. clock) -----				
B2	9376-275-002	Motor, Coin Meter (30 min. clock) -----		1	1	1
B3	9539-444-002	Switch, Cool Down -B-----		1	1	1
B4	9539-444-001	Switch, Motor Start -A-----		1	1	1
*	9095-032-001	**Cam, Timing (8-pin) -----				
*	9095-032-002	**Cam, Timing (6-pin) -----				
*	9095-032-003	**Cam, Timing (9-pin) -----				
*	9095-032-004	**Cam, Timing (10-pin) -----				
*	9095-032-005	**Cam, Timing (12-pin) -----				
*	9095-032-006	**Cam, Timing (4-pin) -----				
*	9095-032-007	**Cam, Timing (5-pin) -----				
*	9095-032-009	**Cam, Timing (2-pin) -----				
*	9095-032-010	**Cam, Timing (3-pin) -----				
*	9095-032-011	**Cam, Timing (7-pin) -----				
B5	9982-271-003	Plate Assy., Meter Mtg. (Dual Meter Only) -----				1
B5	9982-273-002	Plate Assy., Meter Mtg. (10¢ & 25¢ & Manual) -----	1	1	1	
B6	1W52984FA3	Washer, Meter to Plate -----				2
B6	1W52405FA3	Washer, Meter to Plate -----				2
B7	1W19991FA3	Nut, Meter to Plate -----	2	2	2	2
B8	9571-332-001	Timer, Manual - 60 min. -----	1			
B9	9452-505-001	Plate, Timer Mtg. -----	1			
B10	9107-062-002	Dial, Timer -----	1			
B11	9307-163-001	Knob, Timer -----	1			
*	9039-981-001	Bracket, Meter Plate Mtg. -----	1	1	1	1
*	1W19910FA3	Screw, Meter Plate Mtg. -----	3	3	3	3
*	8650-006-003	Lock, Meter Plate (OPTIONAL) -----				
B12	9041-075-001	Box, Coin (plastic) -----		1	1	1
B13	9178-023-001	Front, Coin Box -----		1	1	1
B14	1W56136FA3	Washer, Spacer -----		1	1	1
B15	8650-018-005	Lock, Coin Box -----		1	1	1
B16	9942-021-002	Vault Assy., Coin Box (welded to deck) -----	1	1	1	1
B17	8640-359-001	Nut, Coin Box Lock Ret. -----	1	1	1	1
B18	9897-026-001	Block, Terminal -----	1	1	1	1
B19	1W22442FA3	Screw, Block Mtg. -----	2	2	2	2
B20	9539-460-001	Switch, Push-To-Start -----	1	1	1	1

* NOT ILLUSTRATED

** DIVIDE MOTOR TIME (min.) BY NUMBER OF PINS ON CAM, TO FIND CAM TIMING CYCLE.

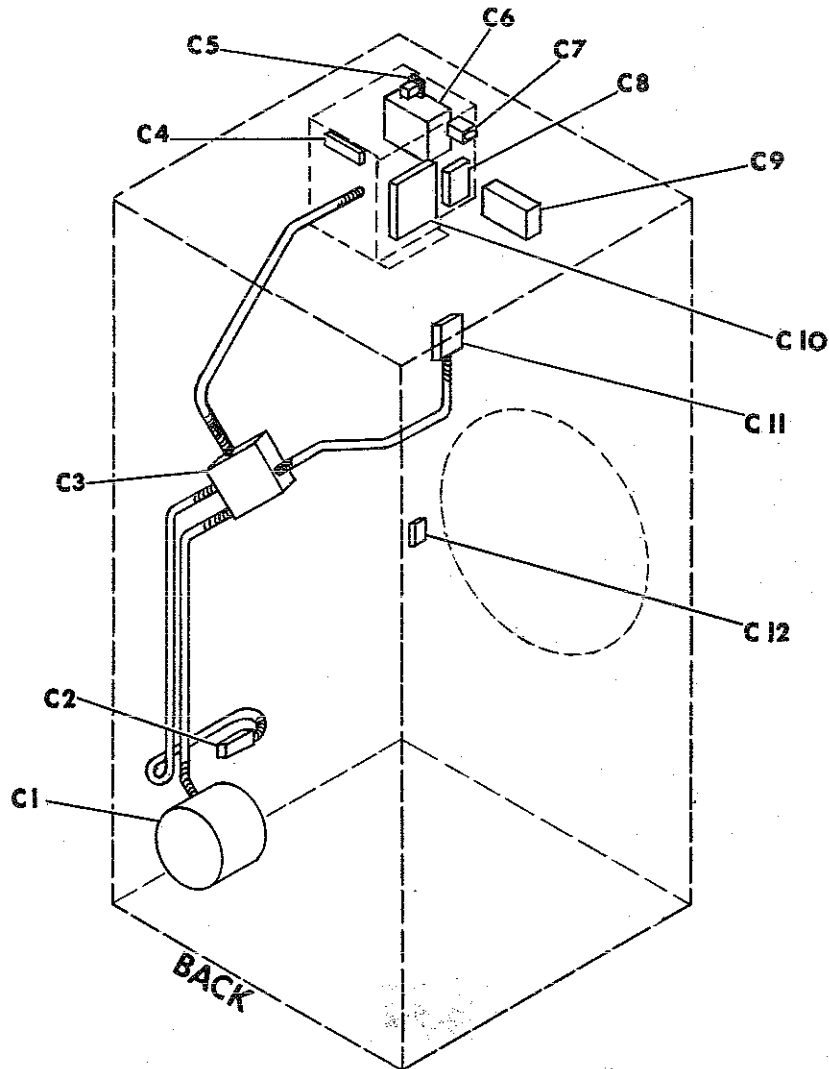


ELECTRICAL COMPONENTS (Figure 5-3)

Key	Part Number	Description	D Z H 3	D Z F 3
C1	9376-259-006	Motor, Drive 115V. - 60 Hz.	1	1
C1	9376-259-007	Motor, Drive 220V. - 50/60 Hz.	1	1
C2	9539-432-001	Switch, Damper (See Fig. 5-5)	1	1
C3	8658-012-000	Box - Elec. Junction	1	1
*	8643-005-000	Cover, Junction Box	1	1
*	1W31252FA3	Screw, Box Mtg.	2	2
C4	9897-026-001	Block, Terminal	1	1
*	1W22442FA3	Screw, Block Mtg.	2	2
C5	9539-460-001	Switch, Push-To-Start (See Fig. 5-2)	1	1
C6		Coin Meter or Timer (See Fig. 5-2)		
C7	8711-002-001	Transformer (24V.)	1	1
C8	9576-206-001	Thermostat, Temp. Control (See Fig. 5-10)	1	1
C9	9857-115-001	Gas Control Assy., (NAT.) (See Fig. 5-11)	1	1
C9	9857-115-002	Gas Control Assy., (L.P.) (See Fig. 5-11)	1	1
C10	9857-116-001	Control, Ignition (See Fig. 5-11)	1	1
C11	9576-203-002	Thermostat, Hi-Limit (See Fig. 5-11)	1	
C11	9576-203-001	Thermostat, Hi-Limit (See Fig. 5-11)		1
C12	9539-461-001	Switch, Door (See Fig. 5-4)	1	1

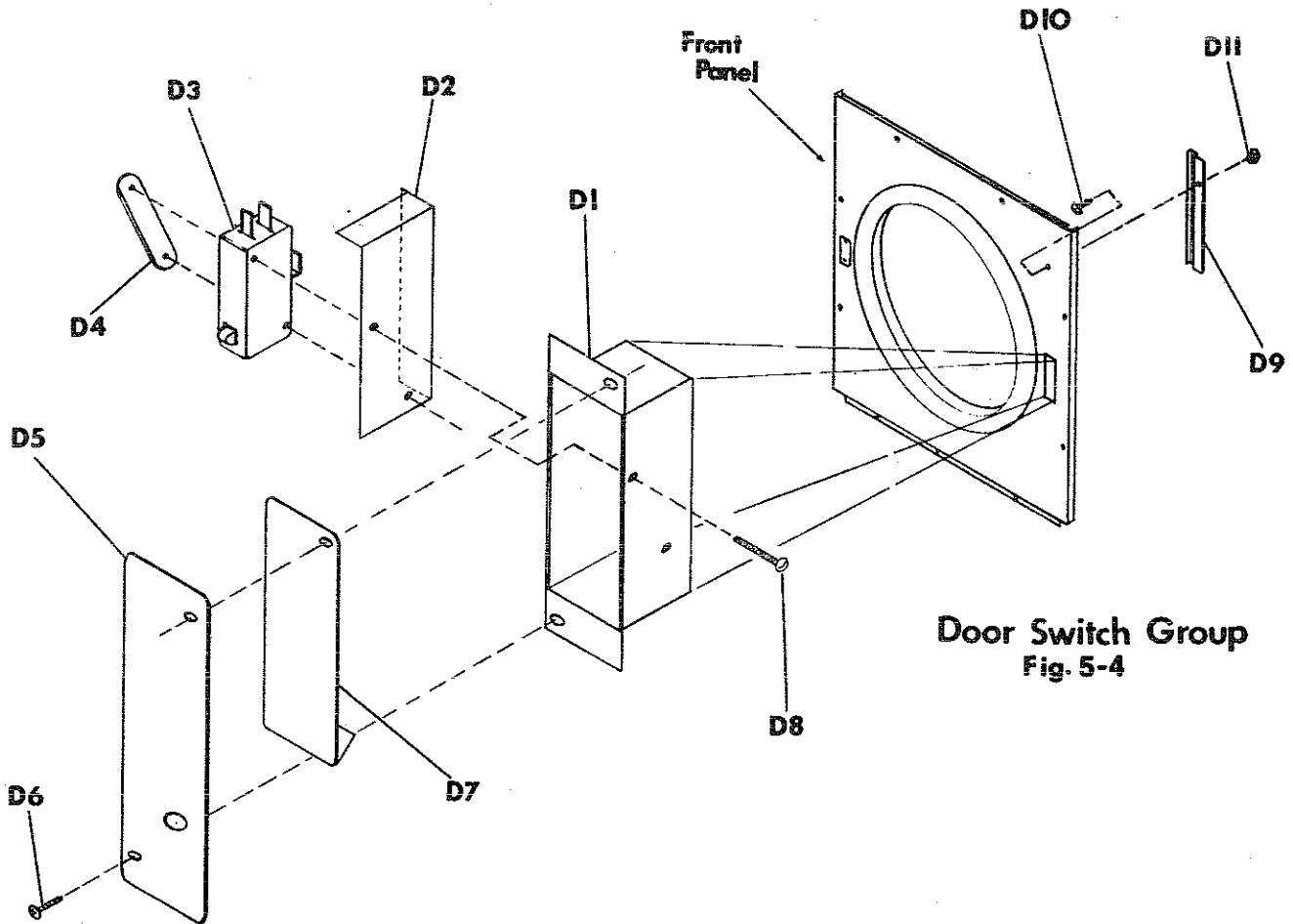
* NOT ILLUSTRATED

ELECTRICAL COMPONENTS Fig. 5-3



DOOR SWITCH GROUP (Figure 5-4)

Key	Part Number	Description	D Z H	D Z F
D1	9041-076-001	Box, Door Switch	3	3
D2	9550-159-001	Shield, Switch Insulator	1	1
D3	9539-461-001	Switch, Door	1	1
D4	8640-401-001	Nut, Twin	1	1
D5	9074-255-001	Cover, Switch Box	1	1
D6	9545-008-001	Screw, (Switch Assy., to Front Panel)	2	2
D7	9008-004-001	Actuator, Switch	1	1
D8	9545-020-001	Screw, Switch to Box	2	2
D9	6068-041-001	Conduit, Special	1	1
D10	9545-012-003	Screw, Conduit to Front Panel	1	1
D11	8640-355-001	Nut, Elastic Stop	1	1



Door Switch Group
Fig. 5-4

DAMPER & DAMPER SWITCH ASSEMBLY (Figure 5-5)

Key	Part Number	Description	D Z H	D Z F
E1	9539-432-001	Switch, Damper	1	1
E2	1W12771FA3	Screw, Damper Sw. Mtg. and Adj.	3	3
E3	1W20517FA2	Nut, Damper Sw. Locking	2	2
E4	1W56951FJ1	Nut, Damper Sw. Mtg. (Tandem Speed Nut)	1	1
E5	9125-001-1	Damper	1	1
E6	9451-146-1	Pin, Damper Hinge	1	1
*	9074-242-1	Cover, Damper Sw.	1	1

LINT HOOD & SCREEN ASSEMBLY (Figure 5-6)

F1	9822-027-002	Hood Assy., Lint	1	1
*	9822-026-001	Screen Assy., Lint	1	1
F2	8640-300-011	Nut, Lint Hood Mtg.	6	6

TUMBLER ASSEMBLY GROUP (Figure 5-7)

G1	9848-101-1	Tumbler Assy.	1	1
G2	9568-009-2	Spider and Shaft Assy.	1	1
G3	9497-019-1	Rod, Tumbler	3	3
G4	1W20759FA1	Nut, Tumbler Rod	3	3
G5	9552-013	Shim, Tumbler (As Required)		
G6	1W35078FA2	Lockwasher	3	3
G7	8641-554-1	Washer, Flat	3	3

* NOT ILLUSTRATED

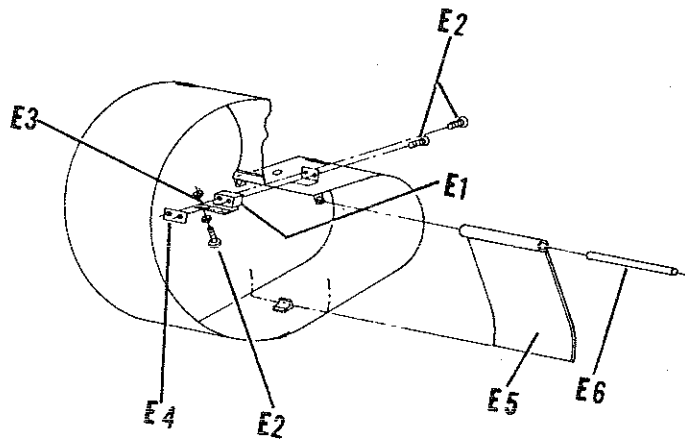


Fig. 5-5. Damper and Damper Switch Group

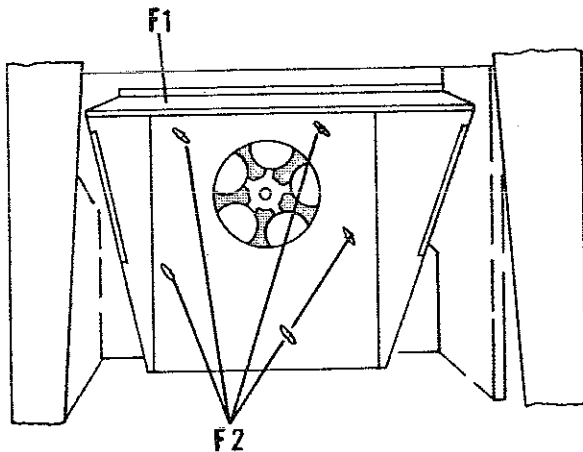


Fig. 5-6. Lint Hood and Screen Group

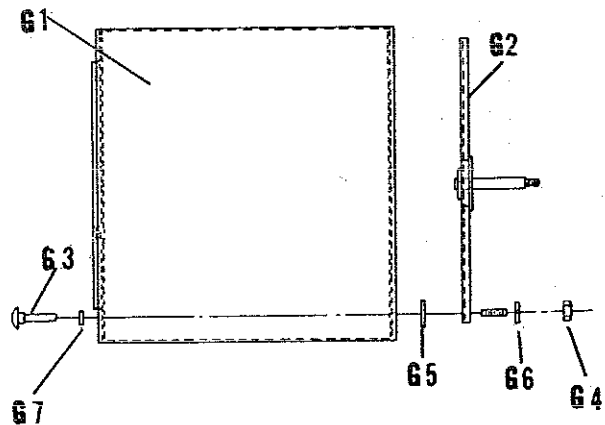


Fig. 5-7. Tumbler Assembly Group

PULLEY, BELT & MOTOR GROUP (Figure 5-8)

Key	Part Number	Description	D Z H 3	D Z F 3
H1	9376-259-006	Motor - 115V. 60 Hz. -----	1	1
H1	9376-259-007	Motor - 220V. 50/60 Hz. -----	1	1
H2	9453-157-001	Pulley - 60 Hz. -----	1	1
H2	9453-033-000	Pulley - 50 Hz. -----	1	1
H3	9040-073-003	Belt (narrow) -----	1	1
H4	9040-073-004	Belt (wide) -----	1	1
H5	9908-039-001	Pulley Assy., Intermed. -----	1	1
*	9036-145-002	Bearing (included in item H5) -----	2	2
H6	9908-040-001	Pulley Assy., Tumbler -----	1	1
H7	8640-222-000	Nut, Tumbler Shaft -----	1	1
H8	9278-036-002	Impeller, Blower -----	1	1
H9	8639-963-001	Screw, Set - Impeller -----	2	2
H10	1W59482FA3	Bolt, Motor Mtg. (5/16-18x3/4) -----	4	4
H10	1W35050FA3	Lockwasher -----	4	4
H10	1W52695FA3	Washer, Flat -----	4	4
H10	1W21017FA3	Nut, Hex -----	4	4
H11	9861-015-001	Arm, Tension (Short) -----	1	1
H12	9182-015-001	Fitting, Grease (included in item H11) -----	1	1
H13	9861-016-001	Arm, Tension -----	1	1
*	9487-200-003	Ring, Retaining -----	4	4
*	9451-141-001	Pin, Pivot -----	1	1
H14	9985-151-001	Bracket Assy., - Pivot -----	1	1
H15	1W59482FA3	Bolt, Pivot Brkt. -----	3	3
H15	1W21017FA3	Nut, Pivot Brkt. -----	3	3
*	9074-180-001	Cover, Impeller -----	1	1
*	9545-008-001	Screw, Impeller Cover -----	4	4
*	9452-253-000	Inspection Plate -----	1	1
*	8639-993-001	Screw, Insp. Plate -----	2	2

*** NOT ILLUSTRATED**

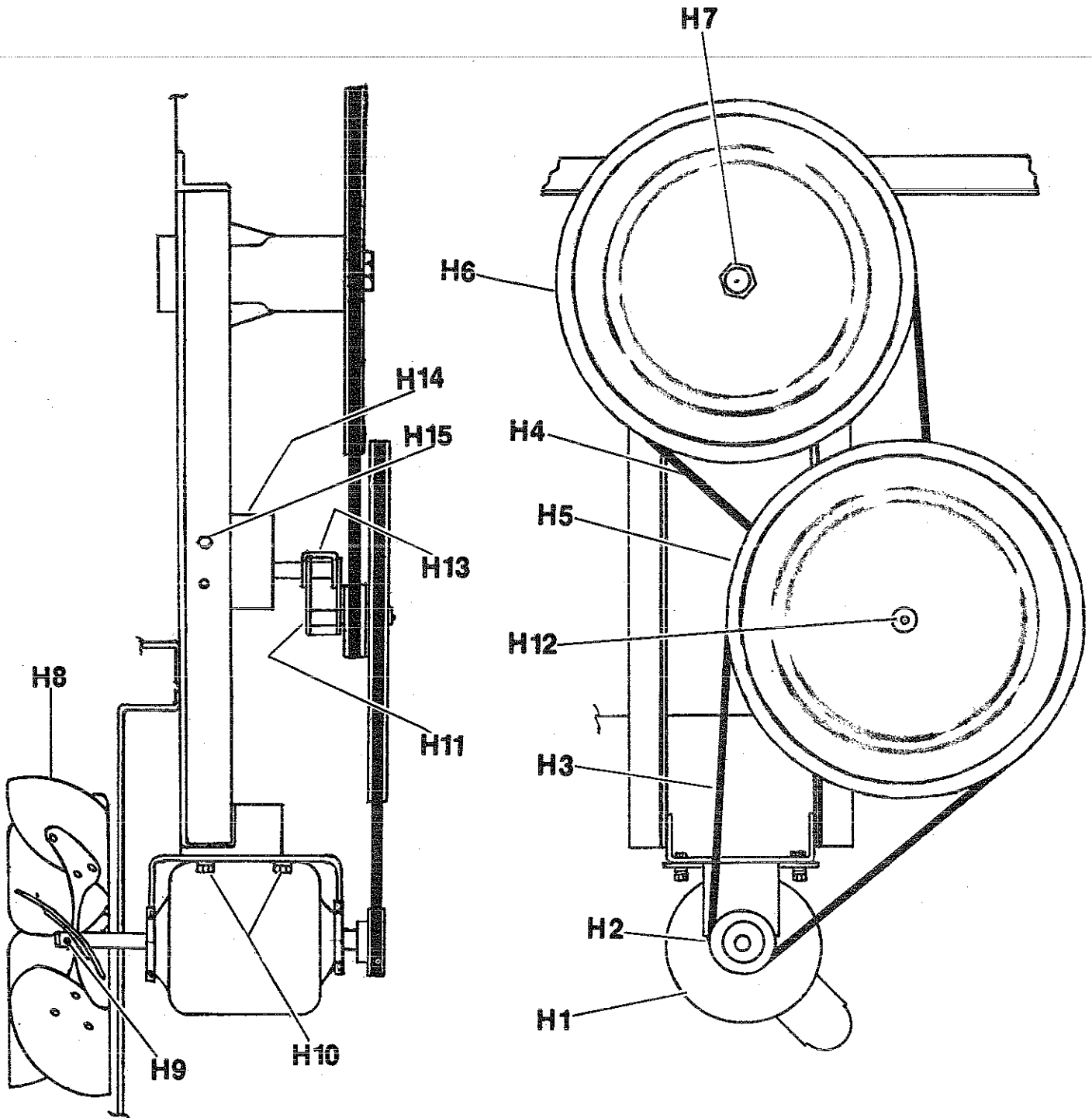
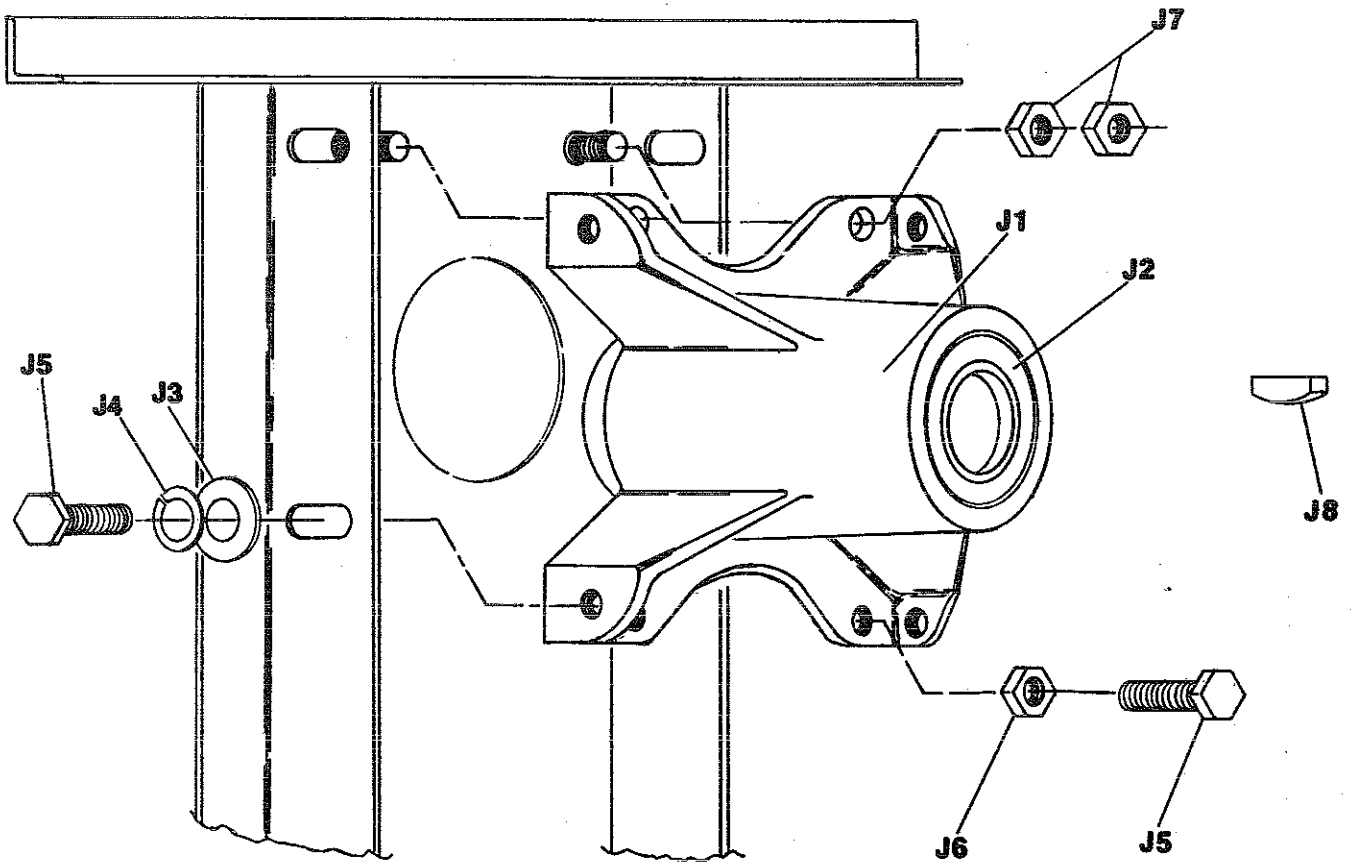


Fig. 5-8. Pulley, Belt and Motor Group

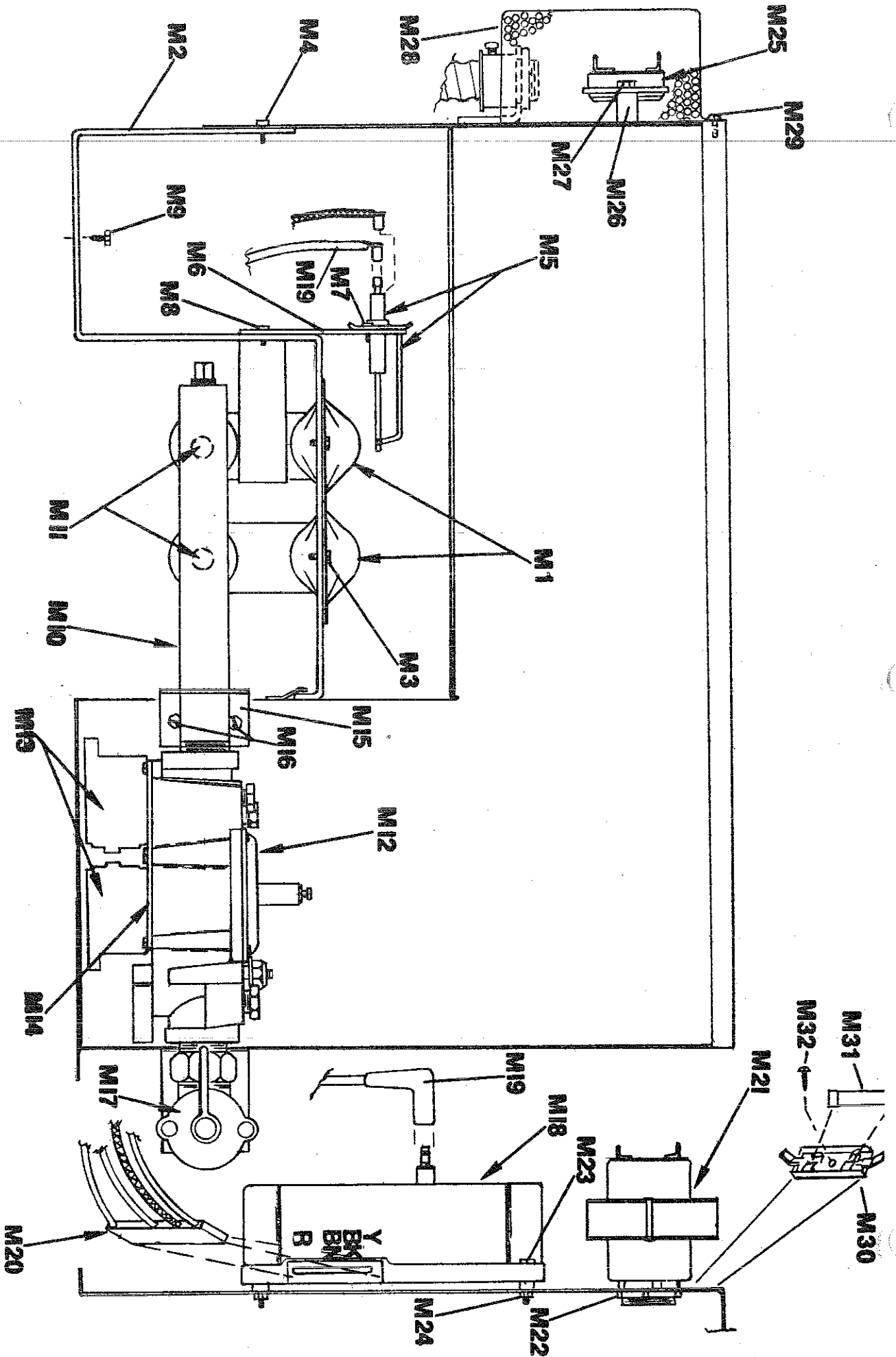
BEARING HOUSING ASSEMBLY (Figure 5-9)

Key	Part Number	Description	D Z H	D Z F
J1	9803-160-002	Housing Assy., - Bearing Complete	3	3
J2	9036-130-001	Bearing, Ball	1	1
*	9538-139-001	Spacer, Brg.	2	2
J3	1W52792FA3	Washer	1	1
J4	1W35078FA3	Lockwasher	4	4
J5	1W16221FA3	Bolt - (3/8-24x1)	4	4
J6	1W21020FA3	Nut - (3/8-24)	6	6
J7	1W21017FA3	Nut - (5/16-18)	2	2
J8	9307-006-000	Key, Tumbler shaft	4	4
*	8640-222-000	Nut, Tumbler	1	1

* NOT ILLUSTRATED



BEARING HOUSING GROUP Fig. 5-9



BURNER HOUSING ASSEMBLY & GAS CONTROL (Figure 5-11)

WIRING GROUP

Part Number	Description	Qty.
8640-276-000	Wire Nut -----	5
8220-001-198	Wire, Junct. Box to Term. Block - WH. -----	1
8220-001-199	Wire, Junct. Box to Motor - WH. -----	1
8220-001-200	Wire, Junct. Box to Motor - R. -----	1
8220-001-202	Wire, Junct. Box to Hi-Limit - R. -----	1
8220-001-205	Wire, Junct. Box — Customer Connection - WH. -----	1
8220-001-206	Wire, Junct. Box to Hi-Limit - BR. -----	1
8220-001-208	Wire, Junct. Box to Damper Sw. - GY. -----	1
8220-001-219	Wire, Junct. Box to Meter Switch - BK. -----	1
8220-001-220	Wire, Junct. Box to Start Switch - R. -----	1
8220-001-221	Wire, Term. Block to Door Switch - BK. -----	1
8220-001-222	Wire, Term. Block to Door Switch - BU. -----	1
8220-034-001	Wire, Junct. Box to Damper Sw. - BR. -----	1
8220-034-002	Wire, Junct. Box to Term. Block - BU. -----	1
9631-381-002	Wire, Term. Block to Start Switch - BU. -----	1
9631-381-003	Wire, Control Therm. to Meter Switch - R. -----	1
9631-381-004	Wire, Term. Block to Meter Switch - GY. -----	1
9631-381-011	Wire, Term. Block to "ON" Light - BK. -----	2
9631-381-013	Wire, By-Pass Sw. to Therm. & T. Block - OR. -----	2
9631-382-001	Wire, Junct. Box to Motor - BU. -----	1
9631-382-002	Wire, Junct. Box to Term. Block - GY. -----	1
9631-383-001	Wire, Meter Motor to Meter Sw. & T. Block - BK. -----	(double)
9631-381-018	Wire, Transformer to Fuse - R. -----	1

**— WIRES ARE NOT ILLUSTRATED —
REFER TO WIRING DIAGRAM**

DEXTER MODELS 220V. — 50 Cy. (1-PH.)

MODEL DZH3H-27 (Manual Timer) Nat. & L.P.

MODEL DZH3 -27 (Coin Metered) Nat. & L.P.

Above models are same as corresponding models in this manual, with the following exceptions:

Motor	9376-259-007	(220V. - 50 Cy. (1 PH.))
Pulley	9453-033-000	
Transformer	8711-002-002	(220V. to 24V.)
Terminal Block	9897-025-001	(Junction Box)
Screws	1W31247FA3	(Term. Block)

Coin Meters must be designated and therefore special ordered.

For Parts and Service, Contact
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