

Cissell®

SERVICE MANUAL

36BD30

LAUNDRY DRYER

Steam-Gas - Electric

• **Installation**

• **Operation**

• **Service**

• **Parts**

W.M. Cissell Manufacturing Company

Louisville, Kentucky U.S.A.

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Printed in U.S.A.

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CAUTION

DO NOT PUT INTO THIS DRYER FLAMMABLE ITEMS
SUCH AS:

- BABY BED MATTRESSES
- THROW RUGS
- UNDERGARMENTS (Brassieres, etc.)

AND OTHER ITEMS
WHICH USE RUBBER AS A PADDING OR BACKING!
RUBBER EASILY OXIDIZES CAUSING EXCESSIVE HEAT
AND POSSIBLE FIRE. FLAMMABLE ITEMS SHOULD BE
AIR DRIED.

GENERAL INFORMATION

The Cissell 36BD30 Double Motor Dryer has a rotating basket 36" diameter and 30" deep and a capacity of 50 pounds dryweight for a maximum moisture retention of 100%. When operator opens door, basket stops; exhaust fan continues to run, thus drawing outside air into basket through open door. This prevents a blast of hot air into operators' face.

You can expect fast drying from a Cissell 36BD30 Laundry Dryer. Hot, dry air is properly and effectively moved through basket and exhausted through a lint trap to atmosphere.

The Cissell 36BD30 comes equipped with an inclined self-cleaning lint screen. In this system, lint accumulates on the underside of the screen until a blanket approximately 1/4" thick is formed. This blanket of lint will fall from the screen to the bottom of the dryer cabinet, and should be removed daily, or as required, to prevent an over accumulation.

As an alternate, Cissell offers a large full width lint drawer. Lint is collected within the drawer on a large perforated metal area which permits full air flow while reducing the lint problem common to all clothes drying.

CISSELL "THERM-O-COOL" DRYERS

Permanent press, durable press and other modern day fabrics require the care that your Cissell Therm-o-cool laundry Dryers now provide.

At the end of the drying cycle, determined by the coin meter or timer, a thermostatic control automatically takes over and continues the rotation of the fan and basket without heat until the garment load reaches a safe cool temperature. This function is performed at the end of each drying cycle and because it's controlled by the heat retained in the garments after the normal drying period, its time can extend from 30 seconds up to 5 minutes. The Therm-o-cool cycle is never too long or too short. Always the exact minimum time required to reduce the temperature of the garment load to a safe and cooling handling temperature.

36BD30 DRYER
STEAM HEATED

HIGH PRESSURE ONLY

Operating Steam Pressure.....	125 lbs. max.
Boiler H. P.	3.8
(with normal load)	
Heat Capacity.....	9-Section Steam Heating Unit
Steam Consumption.....	123 lbs. of condensate per hour
Steam Supply Line.....	1"
Steam Return Line.....	3/4"
Net Weight (approx.).....	640 lbs.
Domestic Shipping.....	705 lbs.
Weight (carton (approx.)	
Export Shipping.....	1180 lbs.
Weight (1 box) (approx.)	
Export Shipping.....	83" (L) x 45"(W) x 55" (H)
Dimensions	
Export Crating.....	118.9 cu. ft.

BASKET LOAD CAPACITY..... 50 LBS. DRYWEIGHT
(For a Maximum Moisture Retention of 100%)

Electrical.....	110 or 220 V., 60 or 50 Cy., 1 Ph., 220 V., 60 or 50 Cy., 3 Ph.
Basket Motor.....	50 lb. - 1/2 H. P.
Fan Motor.....	1/3 H. P.
Floor Space.....	75" high x 37-7/8" wide x 45-1/8" deep
Exhaust Duct.....	8" dia.
Maximum Air Displacement.....	800 cfm
Recommended Operating Range	580-680 cfm

LOW PRESSURE ONLY

Operating Steam Pressure.....	7 to 15 pounds
Boiler H. P.	2.9
(with normal load)	
Heat Capacity.....	9-Section Steam Heating Unit
Steam Consumption.....	76 pounds of condensate per hour
Steam Supply Line.....	1"
Steam Return Line.....	3/4"

36BD30 DRYER

GAS-HEATED

BASKET LOAD CAPACITY..... 50 LBS. DRYWEIGHT
(For a Maximum Moisture Retention of 100%)

Electrical..... 115 or 230V., 60 or 50 Cy., 1 Phase;
230V., 60 or 50 Cy., 3 Phase
Fan Motor..... 1/3 H. P.
Basket Motor..... 50 lb.-1/2 H. P.
Floor Space..... 75" high x 45-1/8" deep x 37-7/8" wide
Basket Size..... 36" dia. x 30" deep
Exhaust Duct..... 8" dia.
Maximum Air Displacement..... 800 cfm
Recommended Operating Range..... 580-680 cfm
Net Weight..... 590 lbs. (approx.)
Domestic Shipping Wt. (carton)..... 655 lbs. (approx.)
Export Shipping Wt. (1 box)..... 1130 lbs. (approx.)
Cu. Ft. Export Crating..... 118.9
Export Shipping Dimensions..... 83" (L) x 45"(W) x 55" (H)
*B. T. U. Input (2 Burners)..... Approx. 130,000 per hr.

*Input ratings as shown are for elevations up to 2,000 ft. For elevations above 2,000 ft., ratings should be reduced 4% for each 1,000 ft. above sea level.

36BD30 DRYER

ELECTRICALLY HEATED

BASKET LOAD CAPACITY..... 50 LBS. DRYWEIGHT
(For a maximum moisture retention of 100%)

Electrical..... 230 V., 60 or 50 Cy. 1 or 3 phase
Floor Space..... 75" high x 45-1/8" deep x 37-7/8" wide
Basket Size..... 36" dia. x 30" deep
Air Exhaust..... 8" dia.
Motor Size..... Basket, 1/2 H. P., 50 lb.
Basket, 1/3 H. P., 40 lb.
Fan, 1/3 H. P., 50 lb. or 40 lb.
Max. Air Displacement..... 800 CFM
Recommended Operating Range..... 580-680 CFM
Heater Input..... 17 Kilowatts per hour
73.9 amps total heater current; 1 phase
42.73 amps heater current; 3 phase
Basket Door Opening..... 22-5/8" dia.
Dry Weight Capacity..... 50 lbs.
Drying Time (Indianhead, 12 lbs. dry weight. 70% moisture retention) approximately..... 20 minutes
Net Weight (approximately)..... 590 lbs.
Domestic Shipping Weight (1 carton)..... 655 lbs. (approx.)
Export Shipping Weight (Box)..... 1130 lbs. (approx.)
Export Shipping Dimensions (Box)..... 83" long x 45" wide x 55" high
Cubic Feet Export (Box)..... 118.9
Electrical Wiring to Dryer Must Comply with Local Electrical Code Requirements.
A Separate Circuit is Required for the Electrical Heater

GENERAL INSTALLATIONS

ALL DRYERS

The construction of Cissell Cabinet Dryers permits installation side by side to save space or to provide a wall arrangement. Position dryer for the least amount of exhaust piping and elbows, and allow free access to the rear of dryer for future servicing of belts, pulleys and motor.

Before operating dryer, open basket door, remove blocking between front panel and basket; remove all tape used to secure dryer parts during shipment; level dryer; and read all instruction tags, etc.

EXHAUST DUCT

Vent the 8-inch diameter exhaust, on rear of dryer, to atmosphere. Do not reduce duct size. If vent is vertical through roof, install two elbows on the discharge end forming a "U" looking down; if vent is horizontal through wall, install one elbow on the discharge end looking down, to prevent wind, rain, snow, sleet, etc., from entering duct and flowing down to dryer.

For multiple dryer installations, it is preferable to vent each dryer individually with a separate duct.

When conditions require the use of a single exhaust duct for several dryers, the piping from each dryer should enter the single duct at an angle of approximately 30°, and in the direction of the air flow. The cross sectional area of the single exhaust duct should equal the combined areas of the dryer ducts connected to it. Make all exhaust connections with the least amount of elbows to reduce air resistance to a minimum. Provide cleanout and inspection openings in the horizontal sections of the duct work.

On multiple installations employing a single exhaust duct, there should be no back draft to interfere with the normal free discharge of air from each dryer.

Before approving duct installation, place each dryer in operation; progressively open each dryer door; manually trip door switch, and see that air is drawn into the basket door opening as freely as it is when all other dryers are stopped.

Keep the exhaust ducts clean. Do not install wire mesh or screen in the discharge opening of the duct, as lint will build up and prevent proper discharge of air from dryers.

ELECTRICAL CONNECTIONS (ALL DRYERS)

DRYERS MUST BE ELECTRICALLY GROUNDED by a separate #14 or larger wire from the grounding terminal within the service connection box to a cold water pipe; or through the grounded neutral of a 3-wire system properly grounded and connected to the grounding terminal. In all cases, the grounding method must comply with local electrical code requirements.

See wiring diagram furnished with dryer. Your Cissell dryer is completely wired at the factory and it is only necessary for the electrician to connect the power leads to the wire connectors within the service connection box on the rear of the dryer. Do not change wiring without consulting factory as you may void the factory warranty. Do not connect the dryer to any voltage or current other than that specified on the tags placed on the power leads of the dryer. Electrically heated dryers require one line circuit for the drive motor and controls, and a separate line circuit for the electrical heating unit.

GAS-FIRED DRYER INSTALLATION

Efficient operation of Gas-Heated dryers depends upon the use of the proper orifice in both gas pilot and main burner to suit the type of gas and its pressure. When measuring gas pressure, place all gas equipment in operation, and measure the gas pressure in the burner manifold with the main burner operating. Be sure that the gas service is adequate, and that the piping connecting the gas meter and dryer is sufficiently large to keep the gas pressure drop in the piping as low as possible.

For proper gas specifications, pressures, size of meter service and size of the gas line connecting the gas meter and dryer, consult your gas company. If gas performance is unsatisfactory, request the gas company to make an actual pressure test with the dryer and all other gas equipment in operation. If the pressure is different from that specified on the name plate of Gas-Heating unit, write the Cissell factory, giving the correct gas pressure, the B. T. U. specifications of the gas in BTU's per cubic foot, and the specific gravity of the gas and correct orifices will be sent you. Do not operate a gas dryer with incorrect orifice sizes.

The main burner has a fixed orifice to provide a rated BTU input, only when operated on the type of gas and pressure specified. Lower pressures will increase drying time. . . higher pressures will require closer attention to avoid scorching. Connect gas supply line to gas inlet line of dryer with a union and gas cock so that gas to dryer can be shut off when necessary.

STEAM PIPING RECOMMENDATIONS

1. Trap each dryer individually. Always keep the trap clean and in good working condition.
2. When dryer is on the end of a line of equipment extend headers at least 4 ft. beyond dryer. Install globe valve, union, check valve and by-pass trap at end of line. If gravity return to boiler, omit trap.
3. Insulate steam supply and return line for safety of operator and safety while servicing dryer.
4. Keep dryer in good working condition. Repair or replace any worn or defective parts.

INSTRUCTIONS
FOR
STEAM CONNECTIONS

IMPORTANT: INSTALL STEAM PIPING IN ACCORDANCE WITH ALL
LOCAL REGULATIONS AND REQUIREMENTS

1. Set and anchor dryer in position. Machine should be level to assure proper steam circulation.
2. To prevent condensate draining from headers to dryer, piping should have a minimum riser 12" above each respective header as illustrated. Do not make steam connection to header with a horizontal or downwardly facing tee or elbow.
3. Whenever possible, horizontal runs of steam lines must drain, by gravity, to respective steam header. Water pockets, or an improperly drained steam header will provide wet steam, causing improper operation of dryer. If pockets or improper drainage cannot be eliminated install a by-pass trap to drain condensate from the low point in the steam supply header to the return.
4. In both the steam supply and steam return line, it is recommended that each have a 1/2" union and 1/2" globe valve. This will enable you to disconnect the steam connections and service the dryer while your plant is in operation.
5. Before connecting trap and check valve to dryer, open globe valve in steam supply line and allow steam to flow through dryer to flush out any dirt and scale from dryer. This will assure proper operation of trap when connected.
6. After flushing system, install bucket trap (w/built-in strainer) and check valve as illustrated. For successful operation of dryer, install trap 18" below coil and as near to dryer as possible. Inspect trap carefully for inlet and outlet markings and install according to trap manufacturers instructions. If steam is gravity-returned to boiler, omit trap but install check valve in return line near dryer.
7. Install union and globe valve in return line and make final pipe connections to return header.

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CISSELL

DUCT INSTALLATION

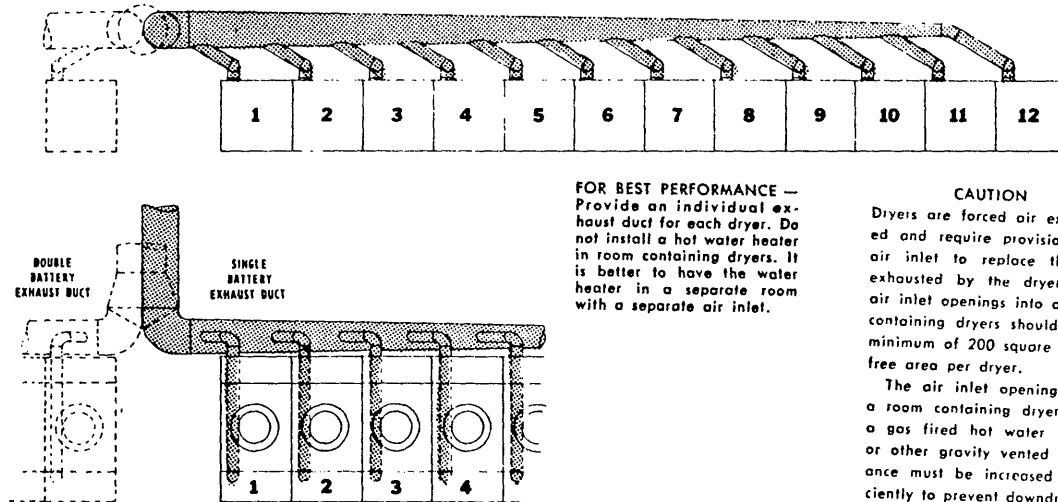
28BS30 28BD30

36BS30 36BD30

DRYERS

EXHAUST DUCT INSTALLATION

NUMBER OF DRYERS IN SINGLE BATTERY—REFER TO TABLE FOR DUCT DIAMETER AT EACH DRYER OUTLET CONNECTION. FOR DIAMETER OF EXHAUST, REFER TO TABLE USING TOTAL NUMBER OF DRYERS CONNECTED THERETO. (SINGLE OR DOUBLE BATTERY.)



FOR BEST PERFORMANCE —
Provide an individual exhaust duct for each dryer. Do not install a hot water heater in room containing dryers. It is better to have the water heater in a separate room with a separate air inlet.

CAUTION

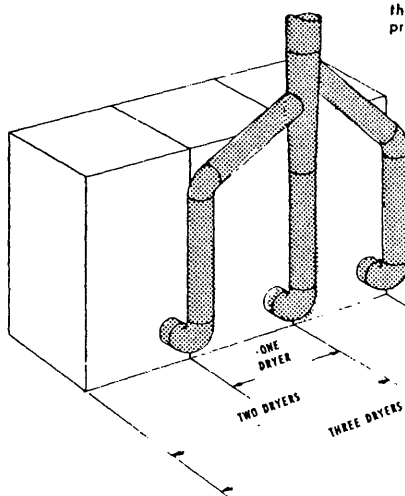
Dryers are forced air exhausted and require provisions for air inlet to replace the air exhausted by the dryer. The air inlet openings into a room containing dryers should be a minimum of 200 square inches free area per dryer.

The air inlet openings into a room containing dryers and a gas fired hot water heater or other gravity vented appliance must be increased sufficiently to prevent downdraft in any of the vents when all dryers are in operation. Do not install gravity vented appliances between dryers and air inlet openings.

Consult your local building code requirements.

NOTE: Inside of duct shall be smooth. Do not use sheet metal screws to join sections.

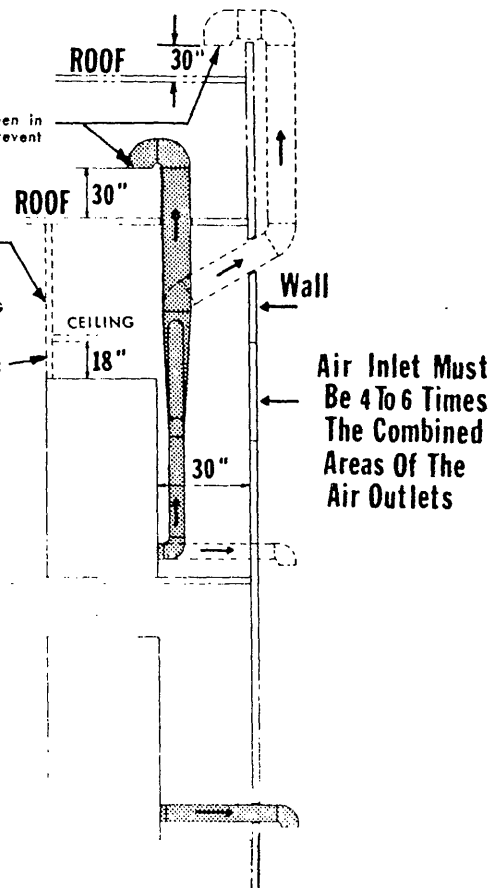
NO. OF DRYERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DUCT DIAMETER	8	12	14	16	18	20	22	23	24	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40



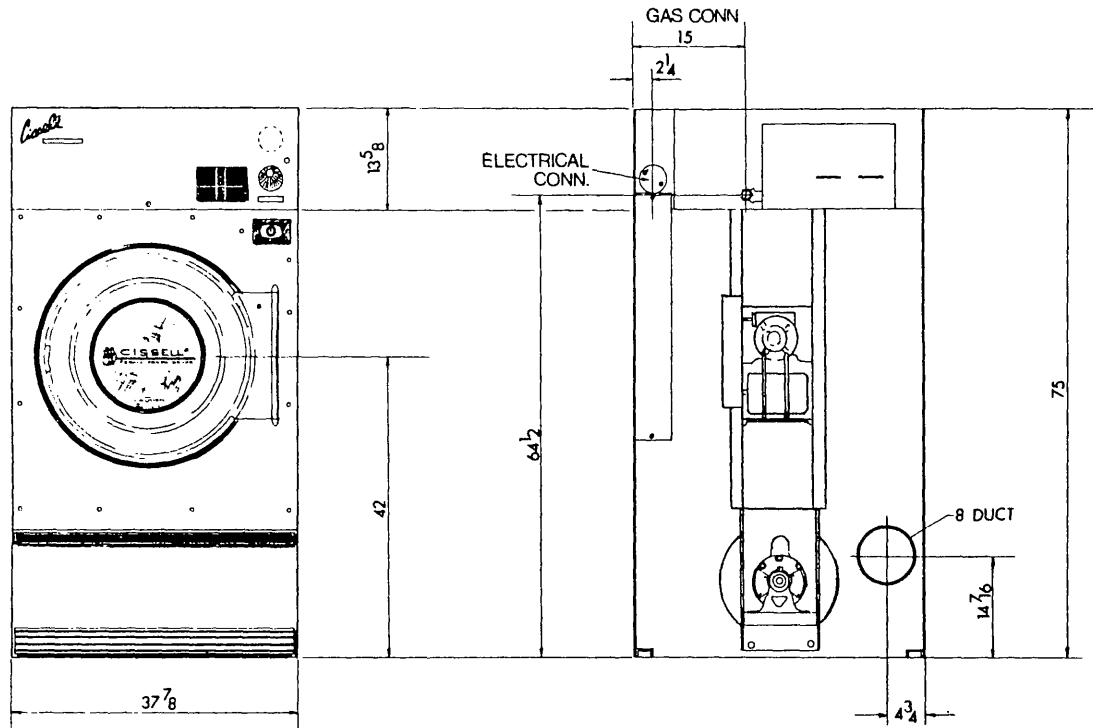
Note: Do not install wire mesh or screen in this opening, as lint will build up and prevent proper discharge of air from dryers.

REMOVABLE STRIP OR PANEL IN FRAMING WALL TO PERMIT REMOVAL OF DRYER FROM FRAMING WALL

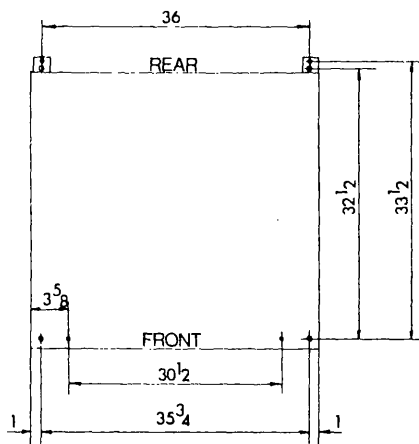
PARTITION OR BULKHEAD



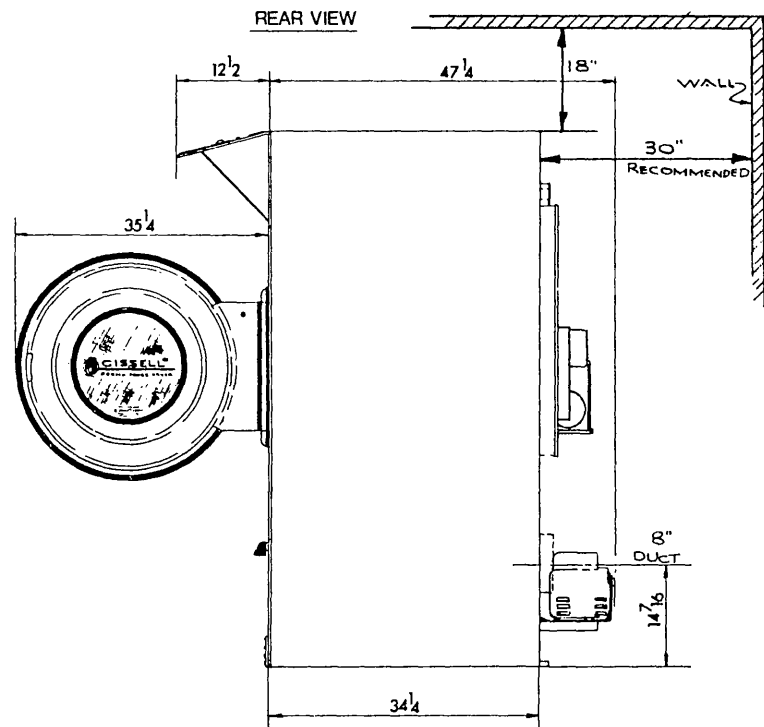
36BD30 GAS FIRED DRYER



FRONT VIEW



MOUNTING HOLES



REAR VIEW

SIDE VIEW

ALL DIMENSIONS GIVEN IN INCHES $\pm \frac{1}{4}$

OVERALL DIMENSIONS TYPICAL
FOR ALL 36B30 DRYERS

GENERAL MAINTENANCE

1. **CLEAN LINT TRAP DAILY:** Remove lint before starting day's operation. A clean lint trap will increase the efficiency of the dryer, as the moisture laden air will be exhausted to the atmosphere more quickly. A blocked lint trap will cause the air switch to open, cutting off the gas and stopping the basket. This applies to either the lint drawer or the inverted self cleaning lint screen.
2. **KEEP BASKET AND SWEEP SHEETS CLEAN:** Check periodically and clean as often as required. The basket and sweep sheets within the dryer are easily accessible for cleaning by removing the front panel of the dryer. Take screws out of front panel, then lift panel off.
3. **PULLEYS (SHEAVE) AND BELT:** Keep belts clean. Oil and dirt will shorten the useful life of a belt. Never allow a belt to run against the belt guard. Check belts periodically for alignment. Pulley shafts must be parallel and the grooves must be in alignment. To align pulley, loosen set screw and slide pulley in or out to align up with the other pulley. Tighten set screw securely.
4. **ELECTRIC MOTORS:** Keep motors clean and dry. Occasionally blow dust out of winding. Lubricate motors as directed on cover for electrical connections on rear of motor. Do not over-lubricate.
5. **ON GAS-FIRED DRYERS:** Keep gas burner assembly clean. Clean gas pilot. Check periodically and clean as often as required. To clean gas pilot, disconnect 1/4" tubing and remove pilot orifice. Do not attempt to clean orifice openings with pins or other objects. Brush lint from pilot burner, and blow orifice holes clean, blowing from threaded end of pilot orifice.

INSTRUCTIONS FOR LIGHTING BURNER

Unlock upper front cover; raise cover for access to gas controls.

1. Be sure manual shut-off valve (s) have been shut off for at least five minutes before proceeding.
2. Open valve (s) in gas line.
3. Depress pilot safety button (Red). Light pilot, keep red button depressed for 30 seconds, then release. If pilot does not remain lighted--repeat operation.
4. Operate dryer and see that pilot flame ignites burner.

If pilot flame fails, automatic gas valve will close within two minutes. Investigate cause of pilot failure. Correct and relight pilot.

Adjust air mixture to produce a good blue flame on burner by rotating the round disc on air mixer to the right or left.

AIR SWITCH ADJUSTMENT

1. Shut off current; disconnect leads and remove air switch.
2. Lay air switch assembly on flat surface and stand up on small end of switch mounting bracket. Adjust air blade by bending at "A" (Fig. 1) so that air blade lays flat and surface "B" is parallel to the flat surface.
3. Place $\frac{3}{16}$ " x $\frac{5}{8}$ " spacer bar or equivalent "C" (Fig. 2) under air blade in position shown; hold switch mounting bracket firmly and adjust switch actuator "D" with needle nose pliers at "E" by twisting actuator right or left whichever is needed so that switch closes when end of air blade engages bar "C".
4. Maximum opening of air switch must be no greater than $\frac{3}{4}$ " (Fig. 3). Bend tab "F" in or out to maintain this dimension.
5. Re-install air switch assembly on rear of dryer.
6. Re-check operation of air blade. Switch must close before air blade engages face of opening and re-open before stop "F" engages.

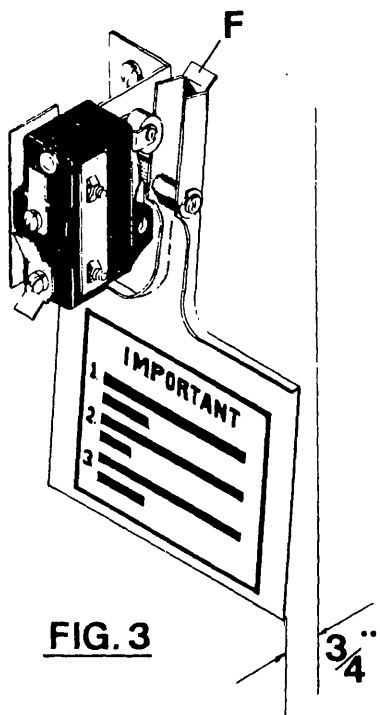


FIG. 1

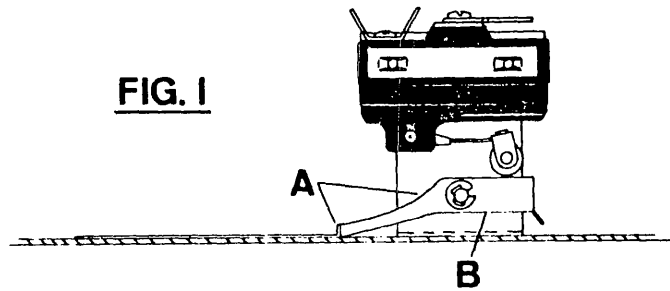
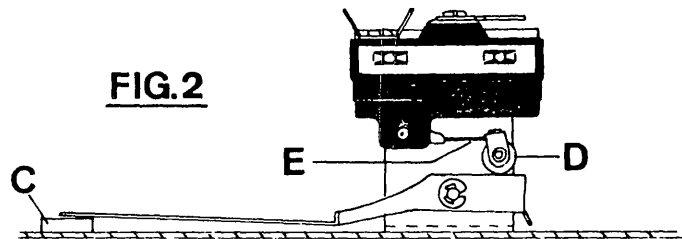


FIG. 2

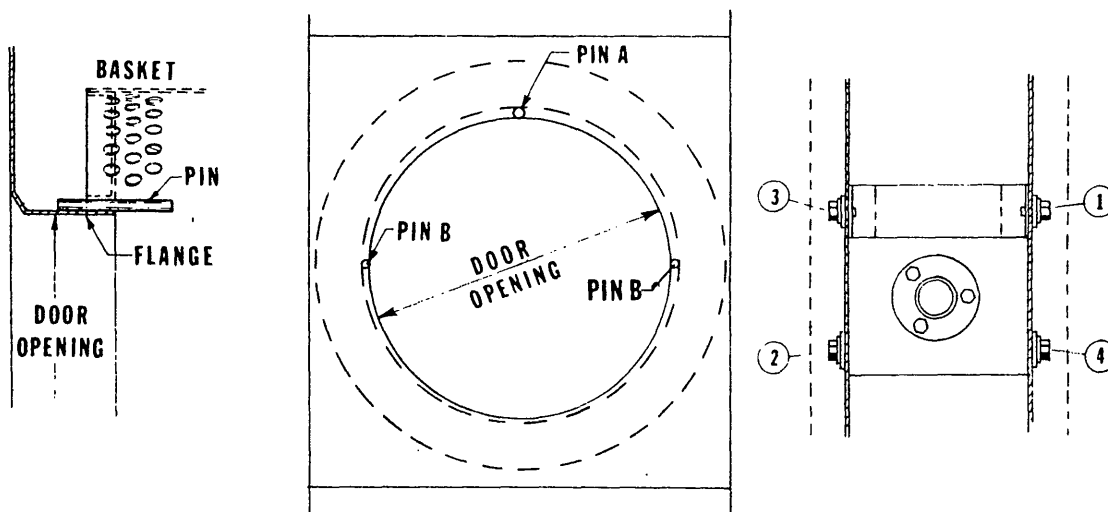


INSTRUCTIONS FOR ALIGNING BASKETS ON CISSELL DRYERS

1. Loosen four Gear Reducer mounting bolts (numbers 1, 2, 3 and 4) on rear of dryer
2. Place the "A" & "B" diameter pins (see chart for size) inside the drying compartment between the rim of the basket opening and the rim of the door opening in the positions shown.
3. Push the basket to the rear or pull to the front, whichever is required to make the basket approximately flush with the door opening flange, plus or minus 1/8".
4. With the pins in position, retighten bearing housing mounting bolts in the numerical order indicated, then remove pins.
5. Check the space between basket and door opening at "B" pin position. If the gap is not approximately the same on both sides, repeat steps 1, 2, 3 and 4.

NOTE: USE SHORT SECTIONS OF ROUND STEEL ROD FOR PINS OR DRILL BITS MAY BE USED IN PLACE OF ROUND ROD.

DRYER	PIN DIA. A	PIN DIA. B
28 BS 30	7/16"	5/16"
28 BD 30	3/8"	5/16"
36 BS 30	9/16"	7/16"
36 BD 30	9/16"	7/16"



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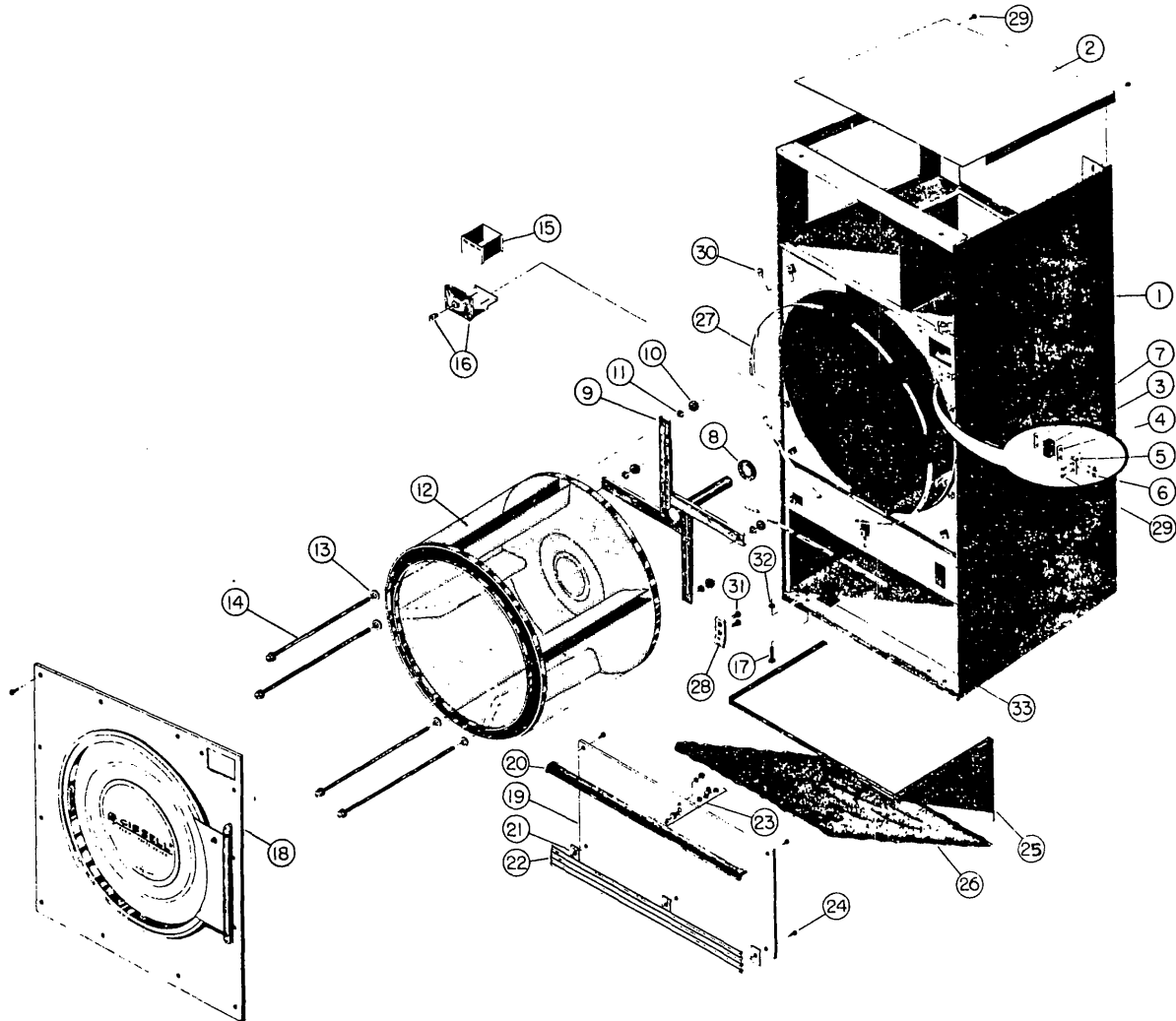
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**CISSELL®
DRYER**

**FRONT VIEW
PARTS**



Ref. No.	Part No.	Description
1	TU5788	Jacket Welded Assembly
2	TU2621	Solid Top (not used on Steam)

CON'T ON FOLLOWING PAGE

Ref. No.	Part No.	Description
<u>TU4828</u>	<u>DOOR SWITCH ASSEMBLY</u> consists of Ref. No. 3-7	
3	TU1979	Door Switch
4	TU1770	Insulator
5	TU2373	Door Switch Bracket
***6	TU3219	#6x1" S. M. S.
***7	TU1771	#6 Tinnerman Twin Nut

<u>TU6010</u>	<u>BASKET COMPLETE</u> consists of Ref. No. 8-14	
8	TU108	Felt Seal
9	TU5173	Spider Welded Assembly
***10	TU2882	1/2"-20 Hex Head Nut
***11	TU2831	1/2" Split Lock Washer
12		Basket Weldment
13	TU2883	1/2" Cut Washer
14	TU2313	Tie Rod
15	CM35	Coin Box
16	CM61	Coin Vault w/Lock & Key
**17	TU3211	3/8"-16 x 2 1/2" Leveling Bolt
18	TU5810	Front Panel & Door Assembly See Page <u>16</u>

<u>TU5808</u>	<u>LINT DOOR ASSEMBLY</u> consists of Ref. No. 19-24	
19	TU5566	Lint Door Welded Assembly
20	TU5221	Handle
21	TU2710	Trim Holder
22	TU2385	Trim
23	TUC1867	Lock & Key
***24	F557	#10-24 x 3/8" Rd. Hd. Machine Screw

<u>TU5410</u>	<u>SELF CLEANING LINT TRAP ASSEMBLY</u> consists of Ref. No. 25-26	
25	TU5179	Lint Screen Housing
26	TU5261	Self Cleaning Lint Screen
27	TU5876	Set of 8 Sweep Sheet Gaskets
28	TU3204	Lock Plate
***29	M263	#8x3/8" S. M. S.
***30	TU2877	#10 Speed Nuts
**31	TU1978	#14 x 3/4" Lg. S. M. S.
**32	TU4937	3/8"-16 Jam Nut
33	TU2420	S. N. Plate

**Sold in Multiples of 6
***Sold in Multiples of 12

Ref.

No.

Part No.

Description

TU5269

ACTUATOR ASSEMBLY consists of Ref. No. 2 - 6

2	TU2582	Actuator
3	TU2105	Actuator Switch
***4	M262	#8-32 Truss Head Screw
***5	FB187	#8 Split Lock Washer
**6	TU3266	#8-32 Hex Nut

TU5857

BASKET DOOR ASSEMBLY consists of Ref. No. 7 - 16

7	TU5288	Basket Door Seal
8	PIF172	Delrin Bearing
9	TU2874	Basket Door Handle
10	TU5859	Basket Door Weldment
11	TU1692	Rubber Gasket
12	TU5110	Door Glass
***13	TU3215	#10-32 x 3/8" Taptite Screw
14	TU3163	Catch Pin
***15	TU4840	#10-32 Hex Crown Nut
***16	TU4839	#10-32 x 3/8" Machine Screw
17	TU2236	Hinge Posts
***18	TU2836	5/16"-18 x 1/2" Hex Head Cap Screw
***19	TU2878	#10 x 5/8" S. M. S.

** SOLD ONLY IN MULTIPLES OF 6

*** SOLD ONLY IN MULTIPLES OF 12

20

TU6336

Cover Plate (Used W/O Coin Meter & Box)

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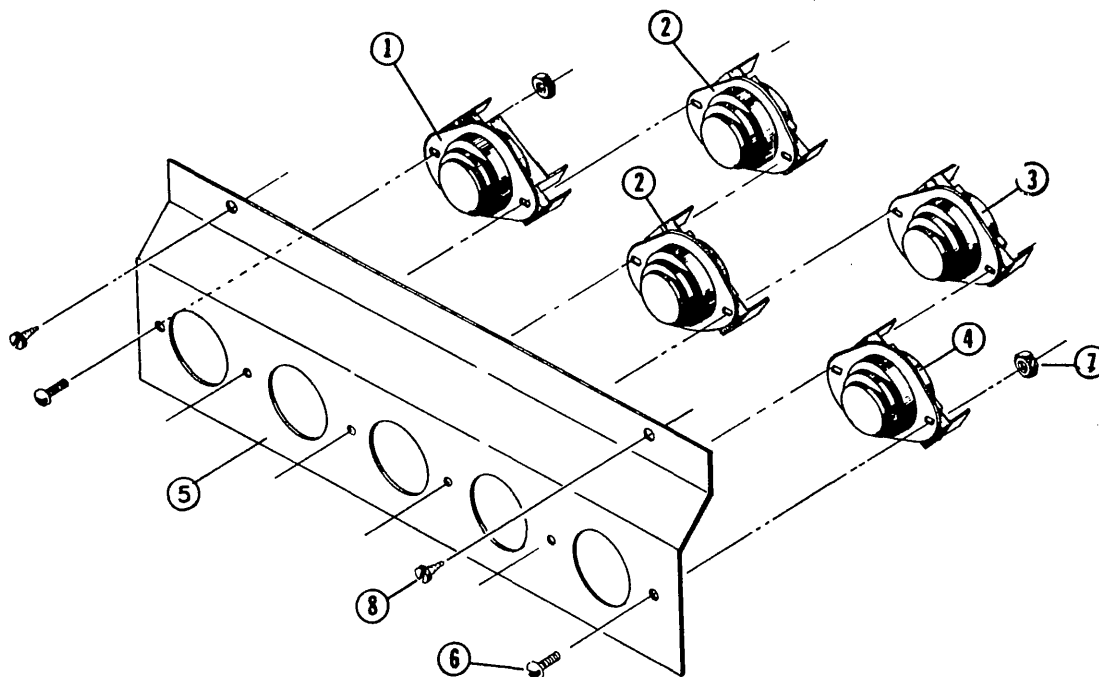
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**CISSELL[®]
DRYERS****Thermostats
TU5408**

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
1	TU2045	Thermostat
2	TU3240	185° Thermostat
3	TU5149	165° Thermostat
4	TU5150	150° Thermostat
5	TU5143	Mounting Bracket
***6	TU3624	#6-32 x 1/4" Round Head Machine Screw
***7	TU3400	#6-32 Hex Nut
***8	M263	#8 x 3/8" S. M. S.

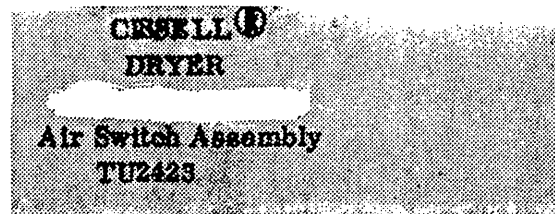
*** SOLD ONLY IN MULTIPLES OF 12

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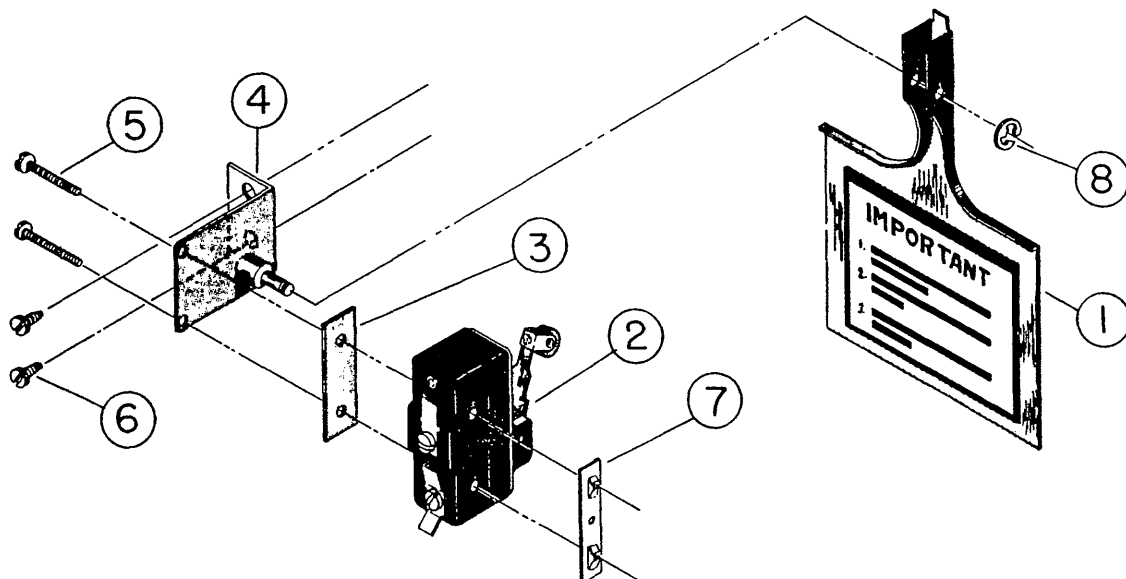
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Ask Your Distributor

When ordering, specify part number and name.



NOT USED ON STEAM



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
1	TU2463	Actuator Arm
2	TU1981	Air Switch
3	TU1770	Insulator
4	TU2462	Air Switch Bracket
***5	TU3219	#6 x 1" S. M. S.
***6	M263	#8 x 3/8" S. M. S.
***7	TU1771	#6 Tinnerman Twin Nut
***8	F888	"E" Ring

*** SOLD ONLY IN MULTIPLES OF 12

For Adjustment of Air Switch See Page 12

Ref. No.	Part No.	Description
1.	TU5788	Jacket
2.	TU2372	Snap Bushing
3.	TU2335	Electrical Box Cover
4.	M155	Wire Harness Clamp
5.	TU2726	Strain Relief Plate
6.	TU1839	Control Box Cover
7.	TU3857	Belt Guard Cover
8.	TU2317	V-Belt 46-380
9.	TU2323	Gear Sheave (AK-51) W/Set Screw
10.	F1034	Motor Sheave (AK-34) W/Set Screw
11.	TU5254	Belt Guard Mounting
12.	TU5241	Shaft Key
13.	TU1832	Small Gear Reducer
14.	Basket Motor	Specify H. P. , Voltage & Motor Number
15.	TU5241	Key
16.	TU34	Belt Adjusting Rod
17.	TU4791	Right Angle Connector
18.	5046-41-292	1/2" Greenfield Cable (Specify 17" Lg.)
19.	TU4790	Straight Connector
20.	TU33	Motor Drive Bracket
21.	5046-41-292	1/2" Greenfield Cable (Specify 29" Lg.)
22.	Fan Motor	Specify H. P. , Voltage & Motor Number
23.	TU2376	Motor Mount Weldment
24.	TU2473	Side Gasket
25.	TU2474	Top & Bottom Gasket
26.	TU2476	Feal Seal
27.	TU4684	Key
28.	TU5874	Fan Ass'y.
29.	TU2423	See Page 21
***30.	M263	#8-3/8" S. M. S.
**31.	RC344	1/4-20x3/4 Cap Screw
***32.	TU2846	1/4" Lock Washer
***33.	TU2847	1/4 Cut Washer
***34.	TU4934	1/4-20 Hex Nut
**35.	TU5439	5/16-18x3/4" Cap Screw
***36.	VSBl30	5/16" Cut Washer
***37.	TU2814	5/16" Split Lock Washer
***38.	C249	5/16"-18 Hex Nut
***39.	M263	#8x3/8" S. M. S.
**40.	RC347	1/2"-13x1-1/4 Cap Screw
**41.	TU1851	1/2" Cut Washer
**42.	TU2831	1/2" Lock Washer
**43.	TU4787	3/8"-16 Hex Nut
***44.	VSBl34	3/8" Lock Washer
***45.	IB140	3/8" Cut Washer
**46.	TU3211	3/8"-16x2-1/2" Leveling Bolts
**47.	TU4937	3/8"-16 Jam Nut
**48.	TU3124	3/8-16x3/4 Cap Screw

** Sold Only in Multiples of 6

*** Sold Only in Multiples of 12

W. M. CISSELL MANUFACTURING COMPANY

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Pacific Coast Office, 4823 W. Jefferson Blvd., Los Angeles

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When ordering, specify part number and name.

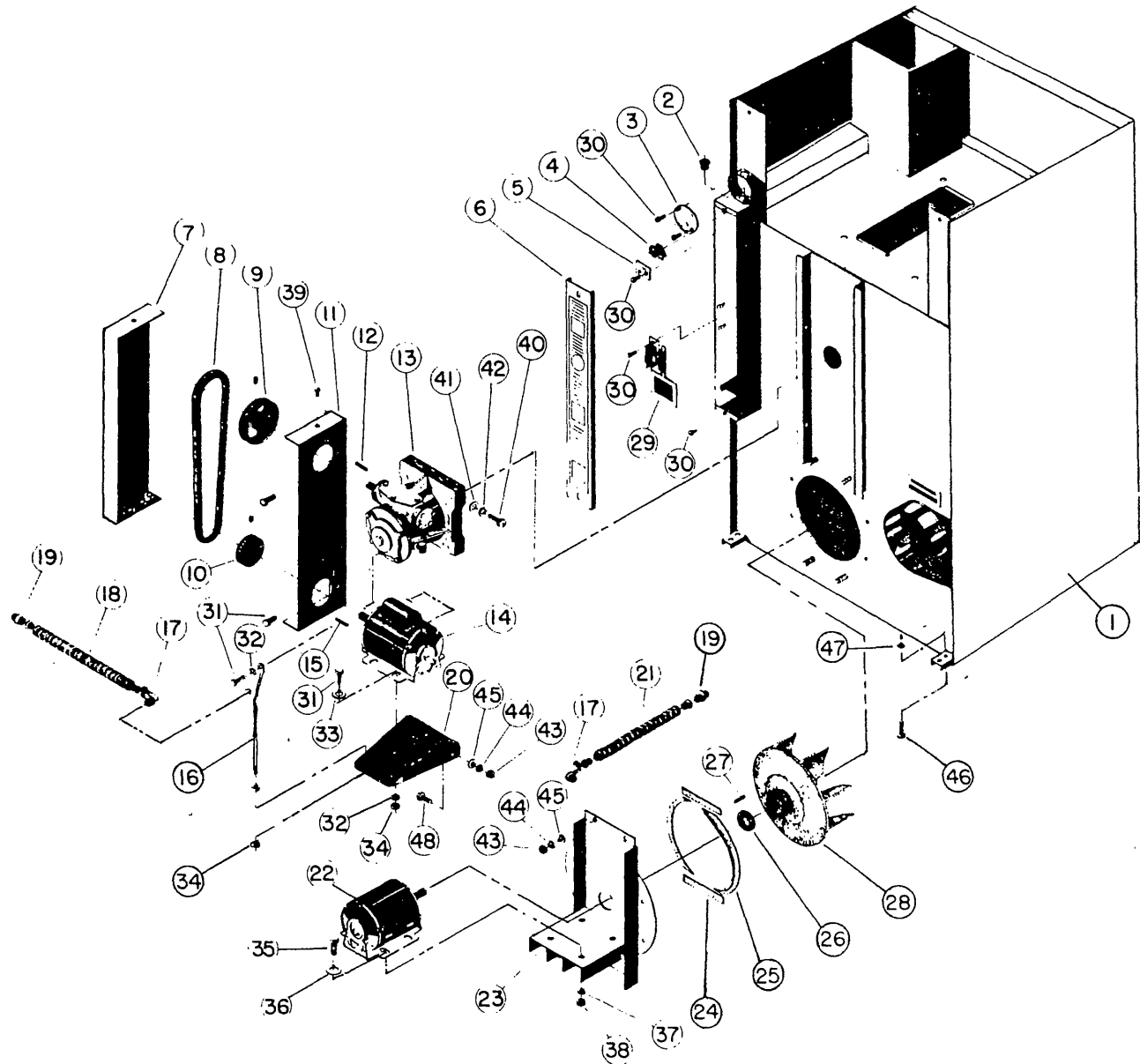
CISSELL®

DRYER

36B 30

REAR VIEW

PARTS



W. M. CISSELL MANUFACTURING COMPANY

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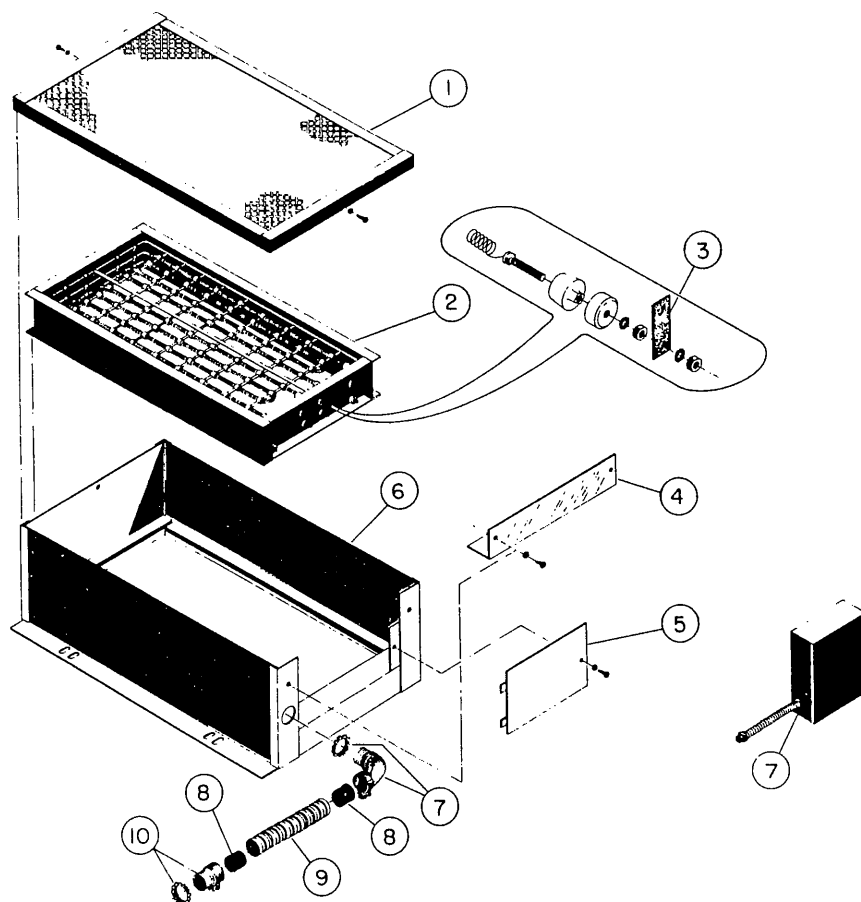
CISSELL

ELECTRIC HEATING UNIT

28BS30, 28BD30, 36BS30 & 36BD30

LAUNDRY DRYER

WHEN ORDERING PARTS OR MAKING INQUIRY, Specify Machine, Serial Number, Voltage and Current.



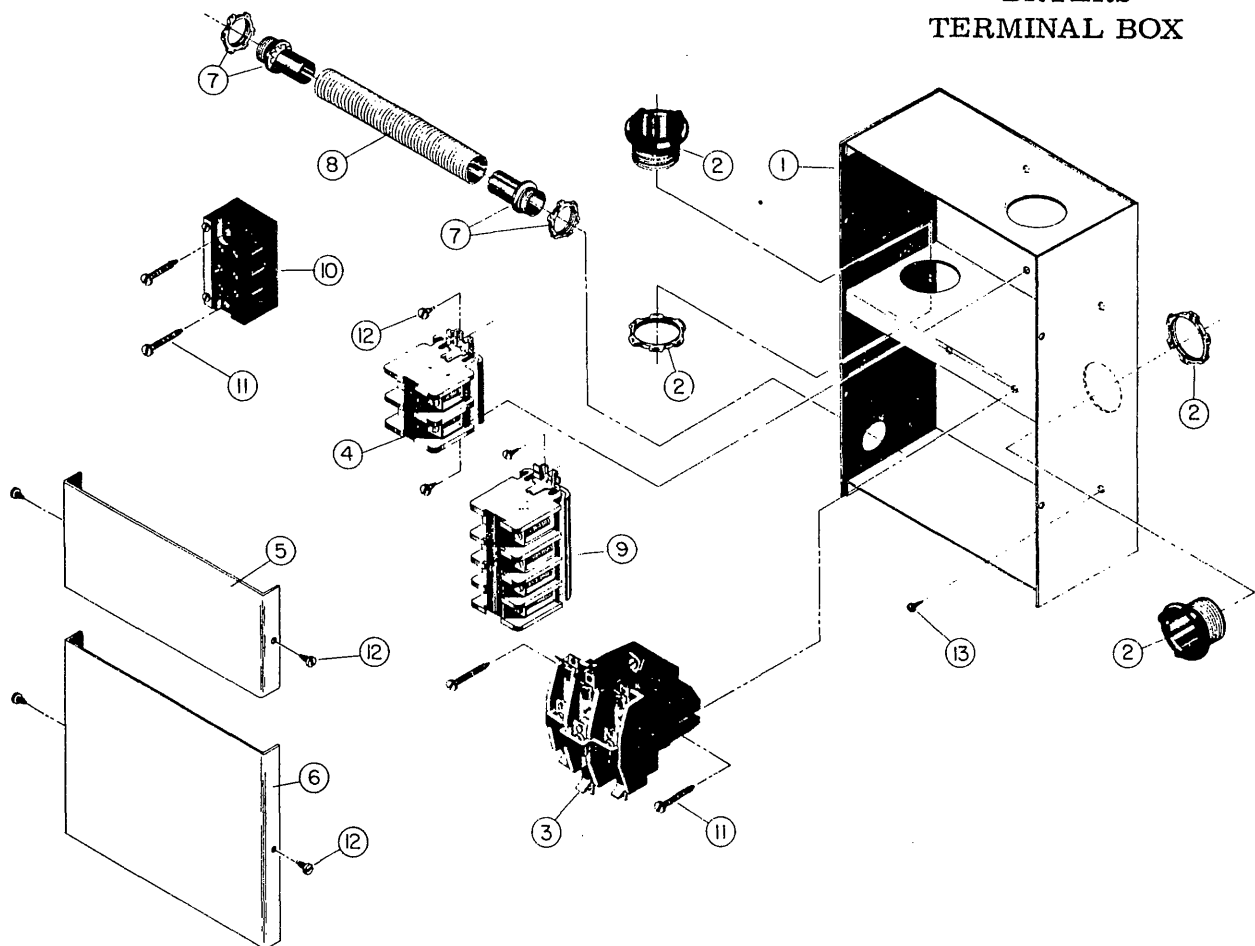
TU 3509 ELECTRIC HEATING UNIT COMPLETE 208V.

TU 3508 ELECTRIC HEATING UNIT COMPLETE 230V.

Ref. No.	Part No.	Description
1	TU 3104 Air Inlet Cover
2	TU 2890 Three Bank Heating Coil Unit 230 V.
	TU 3497 Three Bank Heating Coil Unit 208 V.
3	TU 3767 Contact Strap 21/32" x 1-29/32"
	TU 3768 Contact Strap 21/32" x 2-1/16"
4	TU 3102 Top Back Retainer
5	TU 3101 Rear Cover Plate
6	TU 3103 Electric Furnace Housing
7	SEE PAGE 22	

Electric Dryer Only

CISSELL®
DRYERS
TERMINAL BOX



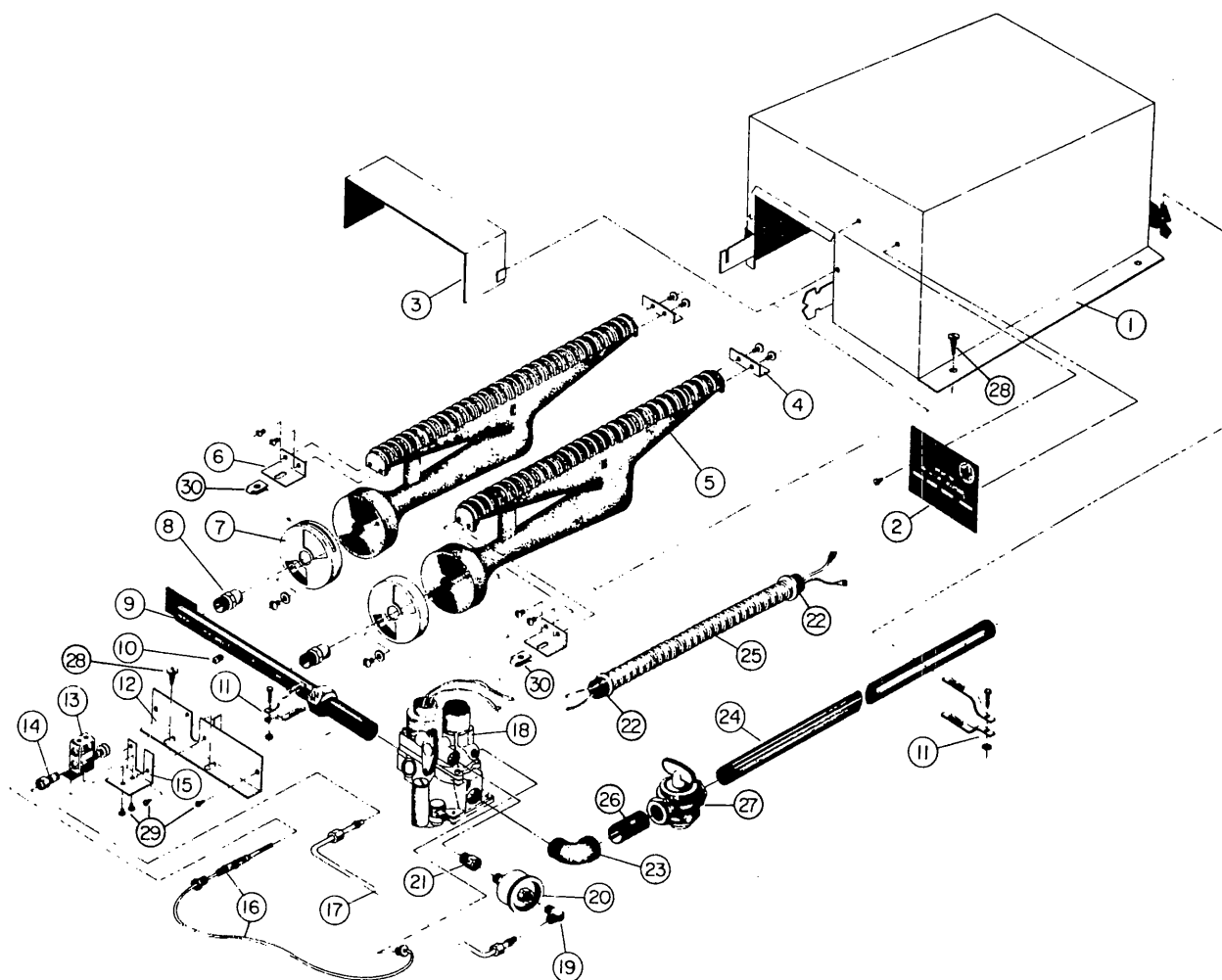
TU5882 TERMINAL BOX COMPLETE Single Phase

TU5883 TERMINAL BOX COMPLETE Three Phase

TU6328 TERMINAL BOX COMPLETE Three Phase (4 Wire)

Ref. No.	Part No.	Description
1	TU5878	Junction Box Weldment
2	TU5880	Bushing W/Lock Nut
3	TU3496	Relay W/115 Volt, 50 or 60 Cy. Coil
	TU3495	Relay W/208 or 230 Volt, 50 or 60 Cy. Coil
4	TU5881	Terminal Block <u>Single Phase</u>
5	TU5454	Upper Cover
6	TU5455	Lower Cover
7	TU5002	1/2" Straight Connector
8	50-4641-292	1/2" Cable (4" 28B30)
9	TU6327	Terminal Block Three Phase (4 Wire)
10	TU3269	Terminal Block Three Phase
** 11	TU3416	#8-1 1/4" S. M. S.
*** 12	M263	#8-3/8" S. M. S.
*** 13	TU3218	#8-32 x 7/16 Self Tapping Screw

CISSELL®
GAS FIRED UNIT
28BS30, 28BD30, 36BS30 & 36BD30
LAUNDRY DRYER

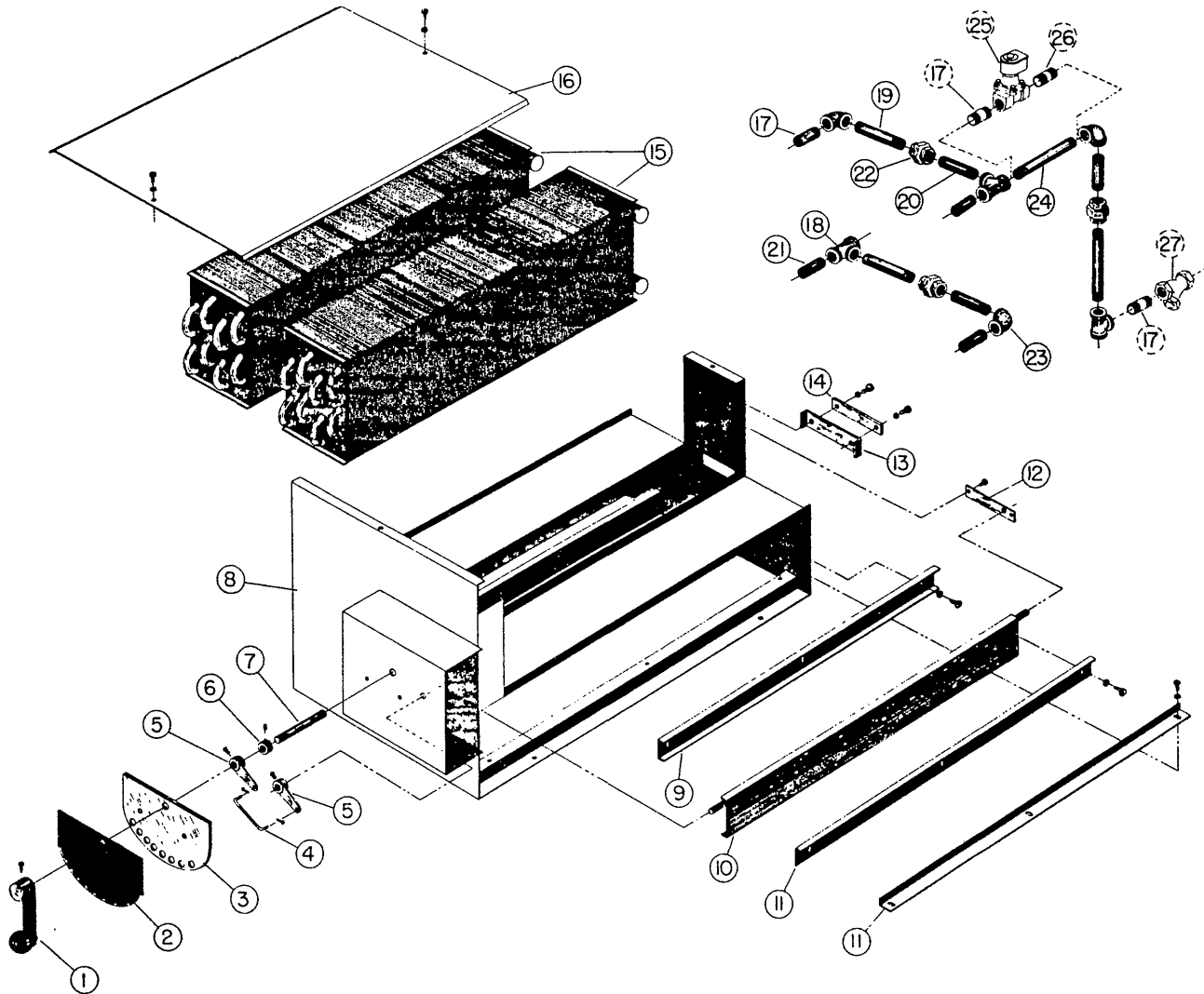


TU2227 GAS-FIRED HEATING UNIT

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	TU2219	Gas Fired Heating Unit	16	TU157	Thermocouple Lead 18" (87D-18)
2	TU2393	Nameplate	17	TU5568	Gas Line Assembly 16"
3	TU2666	Pilot Shield	18		See Basotrol Valve Sheet
4	TU4687	Rear Bracket W/Mtg. Hardware	19	TU2722	1/8" x 1/4" Compression Ell
5	TU1802	Burner (All Gases)	20	TU2723	Gum Filter
6	TU4688	Front Bracket W/Mtg. Hardware	21	TU4689	Brass Adapter
7	TU4686	Air Shutter	22	F875	Straight Connector
8	TU2169	Gas Orifice (Specify Size)	23	OP291	1/2" Street Elbow
9	TU2227	Gas Manifold, Natural, Mixed, Propane & Butane	24	TU2724	1/2" x 25" Pipe
10	TU2224	1/8" Plug for Gas Manifold Test Hole	25	TU2425	3/8" Greenfield Cable W/Connectors (12" Long)
11	TU2226	2 Piece Mounting Brackets	26	TU2714	1/2" Close Nipple
12	TU3798	Burner and Pilot Support	27	TU6321	Valve 1/2" x 1/2" Gas Cock
13	TU3800	Pilot Burner (G-21)	28	TU3209	#14x5/8" S. M. S.
14	TU145	Pilot Orifice (Specify Size)	29	M263	#8x3/8" S. M. S.
15	TU3799	Pilot Support Bracket	30	LB74	#14 Tinnerman Nut

4-COIL LAUNDRY BONNET

28-30 36-30



TU 5908 4-Coil Laundry Bonnet Complete With Solenoid Valve (120 V.)
 TU 5909 4-Coil Laundry Bonnet Complete With Solenoid Valve (240 V.)
 TU 5910 4-Coil Laundry Bonnet Complete Without Solenoid Valve

Ref. No.	Part No.	Description
1	TU6053	Lever Assembly
2	TU5708	Control Nameplate
3	TU5730	Control Mounting Plate
4	TU5587	Connecting Link
5	TU4581	Damper Arm
6	F 215	Set Collar
7	TU4578	Control Rod
8	TU5904	Bonnet Weldment
9	TU5574	Adjustment Channel
10	TU6054	Damper Weldment
11	TU5576	Adjustment Angle
12	TU5571	Damper Bearing Plate
13	TU28612	Coil Holder Plate
14	TU28611	Coil Holder Bar

Ref. No.	Part No.	Description
15	TU1613	4 Coil Steam Coil
16	TU5588	Top Plate
17	TU4608	3/4" x 2" Pipe Nipple (2 req'd)
18	TU4597	3/4" Pipe Tee (3 req'd)
19	TU4601	3/4" x 3" Pipe Nipple (3 req'd)
20	TU5914	3/4" x 3 1/2" Pipe Nipple (2 req'd)
21	TU4610	3/4" x 5" Pipe Nipple (3 req'd)
22	TU4600	3/4" Pipe Union (3 req'd)
23	TU4605	3/4" Pipe Elbow (3 req'd)
24	TU2862	3/4" x 6 1/2" Pipe Nipple (1 req'd)
25	TU6041	Solenoid Valve 120V. 50/60 cy.
26	TU5924	Solenoid Valve 240V. 50/60 cy.
27	TU6204	3/4" x 2 7/8" Pipe Nipple
	TU2736	3/4" 'Y' Strainer

Optional

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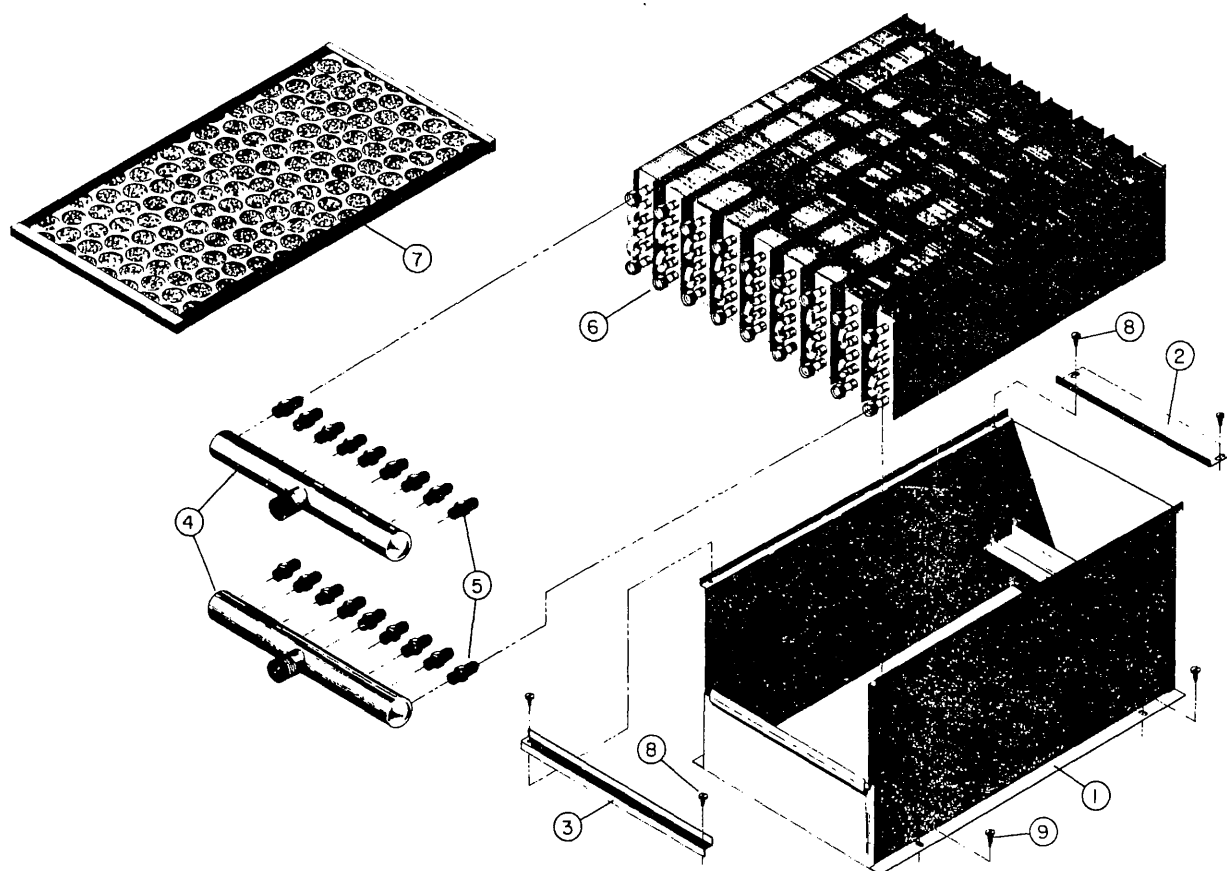
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When ordering, specify part number and name.

CISSELL®

DRYER

9 SECTION STEAM COIL ASSY
PARTS



LOW PRESSURE STEAM ONLY

NINE SECTION STEAM BONNET ASSEMBLY

Ref. No.	Part No.	Description
1	TU2546	Housing Weldment
2	TU2547	Front Coil Retainer
3	TU2548	Rear Coil Retainer
4	TU2413	Steam Coil Manifold
5	TU2414	3/4"-16 x 3/8" Straight Connector
6	TU2405	Steam Coil (9 req'd.) 7 3/4" W x 1 5/8"H x 26" Lg
7	TU2598	Air Filter (Optional) 16" x 25" x 1"
***8	M263	#8 x 3/8" S. M. S.
**9	TU3209	#14 x 5/8" S. M. S.

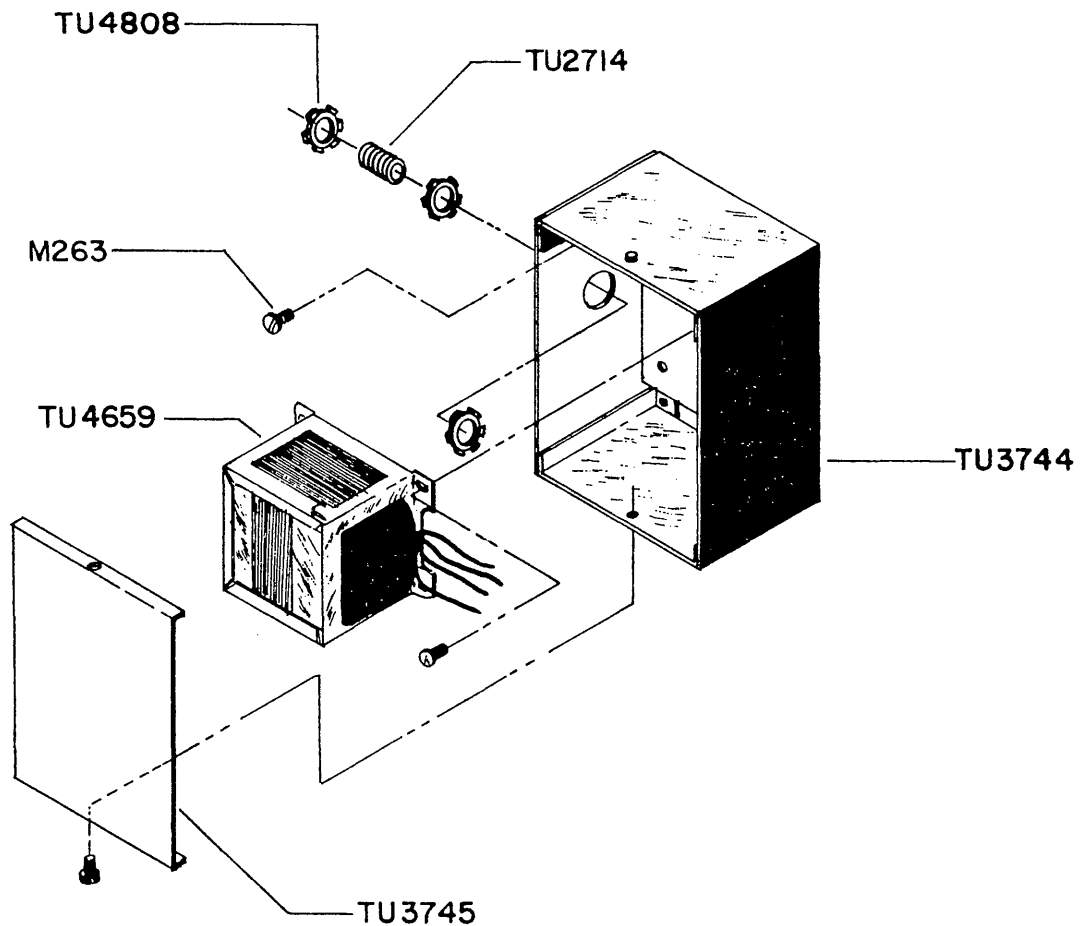
High Pressure Only

Items 1 through 9 PLUS 50
TU6041 Solenoid valve 120V/60 cy
TU5924 Solenoid valve 240V/50
60 cy

** Sold Only in Multiples of 6
*** Sold Only in Multiples of 12

TRANSFORMER AND MOUNTING BOX

(Located on Rear of Dryer)



Part No.

Description

TU3744

Transformer Box

TU4659

Transformer

TU3745

Transformer Box Cover

TU2714

1/2" Nipple All Thread

TU4808

1/2 Appleton Nut

***M263

#8x3/8" S. M. S.

*** Sold Only in Multiples of 12

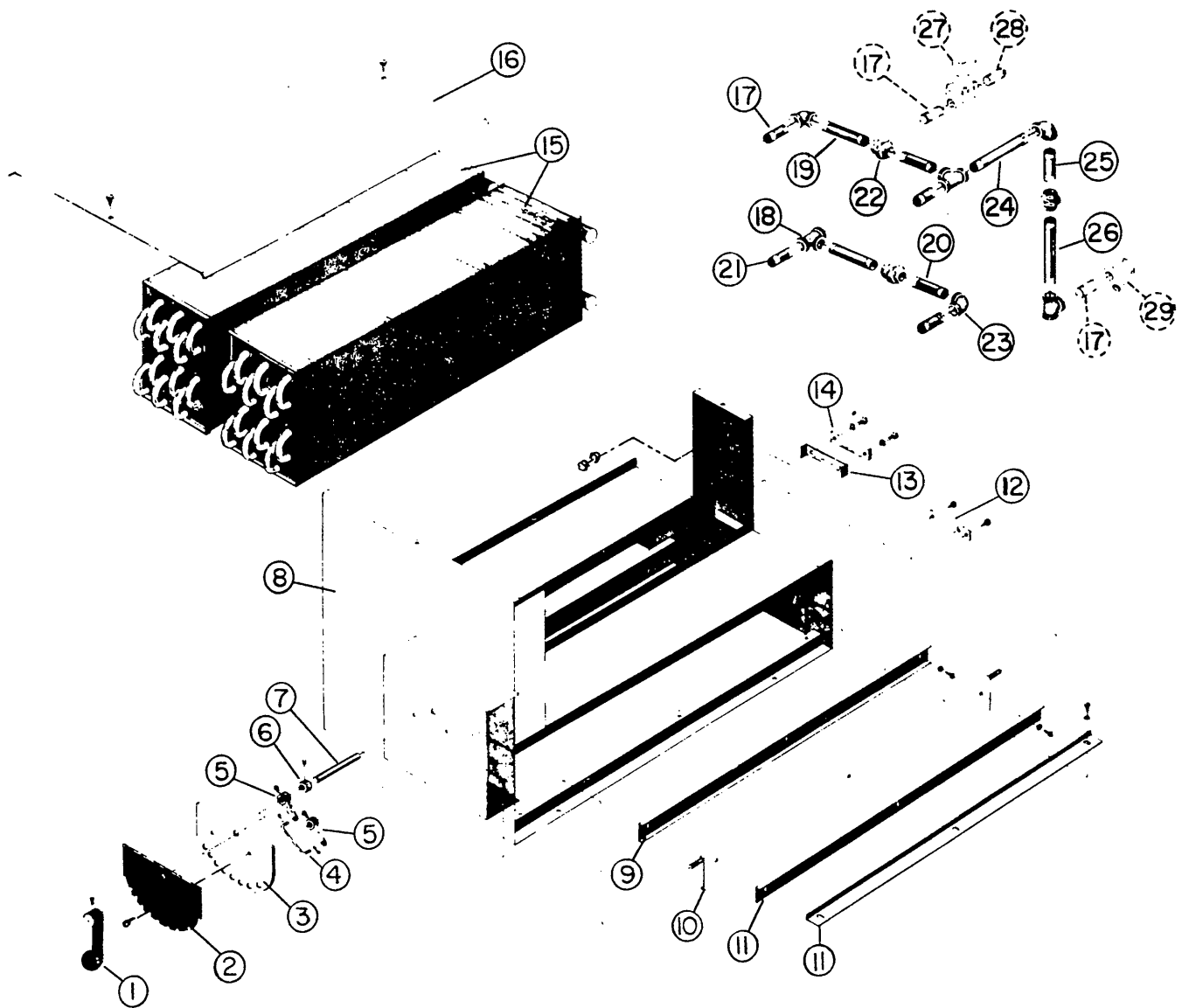
6 - COIL BONNET (36-30)

TU5968	6-Coil Laundry Bonnet Complete With Solenoid Valve (120 V.)
TU5969	6-Coil Laundry Bonnet Complete With Solenoid Valve (240 V.)
TU5970	6-Coil Laundry Bonnet Complete Without Solenoid Valve

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
1	TU6053	Lever Assembly
2	TU5708	Control Nameplate
3	TU5730	Control Mounting Plate
4	TU5587	Connecting Link
5	TU4581	Damper Arm
6	F 215	Set Collar
7	TU4578	Control Rod
8	TU5905	Bonnet Weldment
9	TU5574	Adjustment Channel
10	TU6054	Damper Weldment
11	TU5576	Adjustment Angle
12	TU5571	Damper Bearing Plate
13	TU28612	Coil Holder Plate
14	TU28611	Coil Holder Bar
15	TU3172	6-Coil Steam Coil
16	TU5684	Top Plate
17	TU4608	3/4" x 2" Pipe Nipple (2 req'd)
18	TU4597	3/4" Pipe Tee (3 req'd)
19	TU4606	3/4" x 4" Pipe Nipple (2 req'd)
20	TU5914	3/4" x 3 1/2" Pipe Nipple (2 req'd)
21	TU4610	3/4" x 5" Pipe Nipple (2 req'd)
22	TU4600	3/4" Union (3 req'd)
23	TU4605	3/4" Elbow (3 req'd)
24	TU2862	3/4" x 6 1/2" Pipe Nipple (1 req'd)
25	TU4601	3/4" x 3" Pipe Nipple (1 req'd)
26	TU6202	3/4" x 8 3/16" Pipe Nipple (1 req'd)
Optional {	27	TU6041 Solenoid Valve 120 V. 50/60 cy.
		TU5924 Solenoid Valve 240 V. 50/60 cy.
	28	TU6204 3/4" x 2 7/8" Pipe Nipple
	29	TU2736 3/4" 'Y' Strainer

6 COIL LAUNDRY BONNET

36-30



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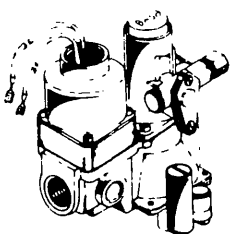
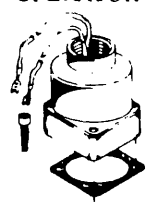
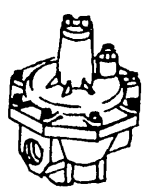

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Ask Your Distributor

WHEN ORDERING PARTS OR MAKING INQUIRY, Specify Dryer, Serial Number, Voltage and Current

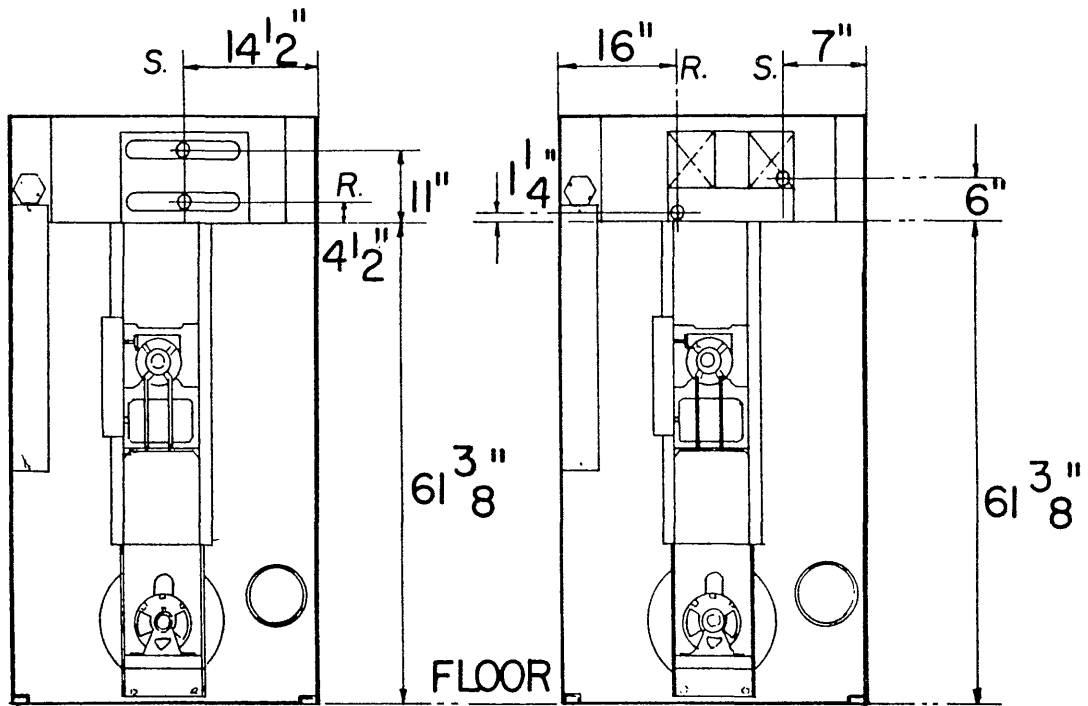
CISSELL®

BASOTROL GAS VALVES FOR PETITE, COMPACT (2830), 36A30, 42X42 & TWIN (2624) GAS FIRED DRYERS Parts

<p>① COMPLETE BASOTROL VALVE</p> 	<p>② REPLACEMENT ELECTRIC OPERATOR</p> 	<p>TU-2359 THERMAC REGULATOR (3/4" - T-11-L)</p> <p>Use with Basotrol Gas Valve for Manufactured Gases less than 800 BTU per cubic feet.</p> 
	<p>③ REPLACEMENT POWER UNIT</p> 	

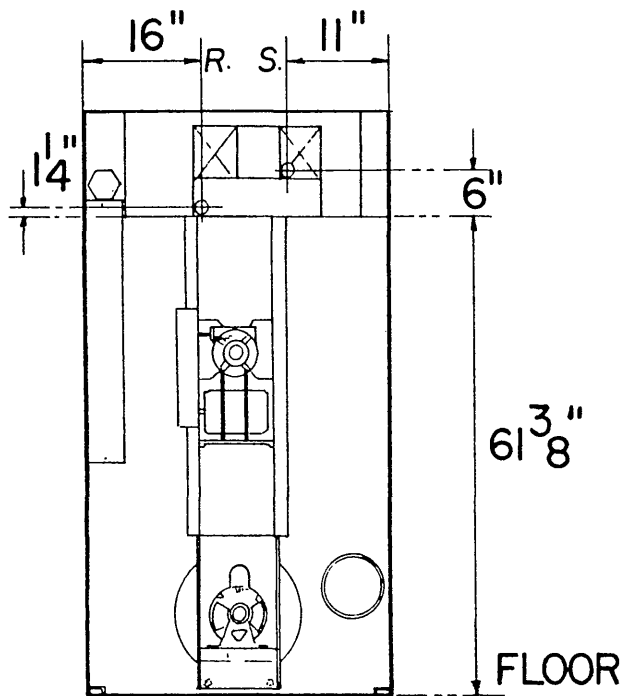
	① COMPLETE BASOTROL VALVE				② REPLACEMENT ELECTRIC OPERATOR		③ REPLACEMENT POWER UNIT	
	CISSELL PART NO.	BASOTROL PART NO.	TYPE GAS	VOLTAGE	CISSELL NUMBER	BASOTROL NUMBER	CISSELL NUMBER	BASOTROL NUMBER
PETITE DRYERS	TU-3701	92D2051A16	LIQUID PETROLEUM	120V	TU-3705	R54889-7A1-2	TU-3707	801-208
	TU-3702	92D2051B16	LIQUID PETROLEUM	240V	TU-3711	R54889-7B1-2	TU-3707	801-208
	TU-3703	93D1051A16	NATURAL MIXED MFD.	120V	TU-3705	R54889-7A1-2	TU-3707	801-208
	TU-3704	93D1051B16	NATURAL MIXED MFD.	240V	TU-3711	R54889-7B1-2	TU-3707	801-208
OTHER DRYERS	TU-3818	93D1004A18	NATURAL MIXED	120V	TU-3832	R54889-086A2	TU-3838	801-230
	TU-3819	93D1004B19	NATURAL MIXED	240V	TU-3833	R54889-085B2	TU-3838	801-230
	TU-3821	92S2005A8	MANU-FACTURED	120V	TU-3834	R56799-064-A2	TU-3839	801-231
	TU-3822	92S2005B9	MANU-FACTURED	240V	TU-3835	R56799-063-B2	TU-3839	801-231
	TU-3817	92D2004A17	LIQUID PETROLEUM	120V	TU-3836	R54889-096-A2	TU-3838	801-230
	TU-3820	92D2004B18	LIQUID PETROLEUM	240V	TU-3837	R54889-095-B2	TU-3838	801-230

36BD30 **STEAM CONNECTIONS**



9 SECTION

4 COIL



6 COIL

	RETURN R. SUPPLY S.	
9 SECTION	1"	1"
9 SECTION W/ SOLENOID	1"	3/4"
4 COIL BONNET	3/4"	3/4"
6 COIL BONNET	3/4"	3/4"

FOR ALL OTHER DIMENSION SEE P. 10

W. M. CISSELL MANUFACTURING COMPANY

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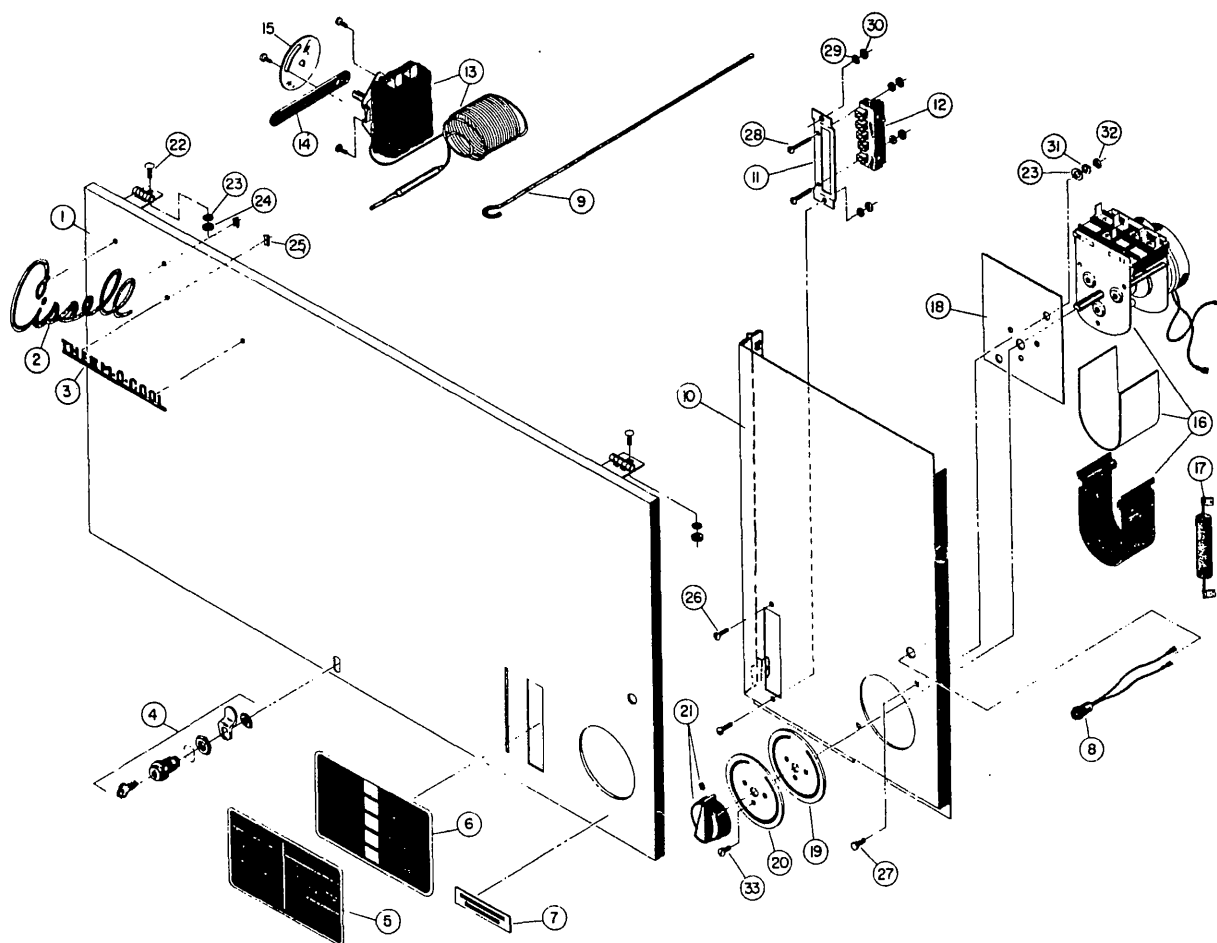
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**CISSELLTM
DRYER**

**Single Timer & Access Door
Parts**



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
1	TU5078	Burner Door
2	TU2610	Cissell Script
3	TU3656	Therm -o-cool Name Plate
4	TUC1867	Lock & Key
5	TU5147	Lever Temperature Control Plate
6	TU5115	Push Button Control Plate
8	TU5421	Pilot Light 110V.
	TU5639	Pilot Light 220V.
9	TU2801	Support Rod
10	TU6018	Single Timer Mtg. Plate
11	TU5153	Push Button Plate
12	TU5102	Push Button Switch
13	TU1980	Temperature Regulating Thermostat
14	Optional TU5134	Thermostat Lever
15		Thermostat Adjustment Plate
16		60 Min. Haydon Timer
		120-60-1 Double Switch
	TU4865	15 Min. Haydon Timer
		120-60-1 Double Switch
	TU4866	15 Min. Haydon Timer
		120-60-1 Single Switch
17	TU2428	Resistor (Used on 220-60-1 Timer)
18	TU6019	Timer Mounting Plate 60 Cy. TU6323 50 Cy.
19	TU3748	60 Min. Dial
20	TU2554	15 Min. Dial
21	TU2845	Knob Complete
**22	TU3479	#10-32 x 7/16" Truss Head Screw
***23	P104	1/4" Cut Washer
***24	TU2842	#10-32 Hex Nut
***25	TU3137	Push-On Speed Nut
***26	TU3624	#6-32 x 1/4" Round Head Screw
***27	TU4958	#8-32 x 3/8" Machine Screw
**28	M264	#6-32 x 7/8" Round Head Screw
***29	M270	#6 Internal Tooth Lock Washer
***30	TU3400	#6-32 Hex Nut
***31	FB187	#10 Lock Washer
*32	TU3266	#8-32 Hex Nut
**33	TU3802	#8-32 x 3/8" Flat Hd. Screw

** SOLD ONLY IN MULTIPLES OF 6

*** SOLD ONLY IN MULTIPLES OF 12

* SOLD ONLY IN MULTIPLES OF 3

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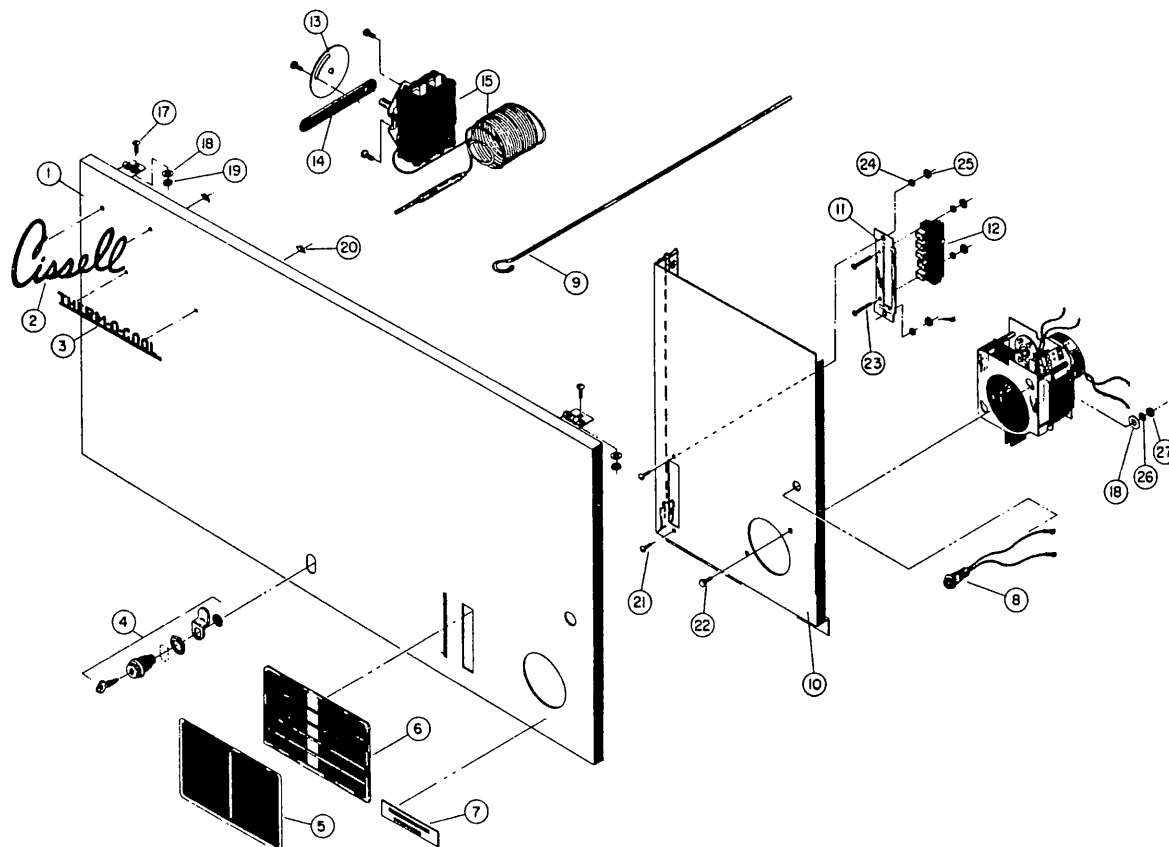
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Ask Your Distributor

When ordering, specify part number and name.

CISSELL[®]
DRYER

Single Meter & Access Door
Parts



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
1	TU5078	Burner Door
2	TU2610	Cissell Script
3	TU3656	Therm-o-cool Name Plate
4	TUC1867	Lock & Key
5	TU5147	Lever Temperature Control Plate
6	TU5115	Push Button Control Plate
7	TU2683	Add Coin (Name Plate)
8	TU5421	Pilot Light 110V.
	TU5639	Pilot Light 220V.
9	TU2801	Support Rod
10	TU6018	Single Coin Meter Mounting Plate
11	TU5153	Push Button Plate
12	TU5102	Push Button Switch
13	TU5133	Thermostat Adjustment Plate
14	TU5134	Thermostat Lever
15	TU1980	Temperature Regulating Thermostat
16		Coin Meter (Specify voltage & coin denomination)
**17	TU3479	#10-32 x 7/16" Truss Head Screw
***18	P104	1/4" Cut Washer
***19	TU2842	#10-32 Hex Nut
***20	TU3137	Push-On Speed Nut
***21	TU3624	#6-32 x 1/4" Machine Screw
***22	TU4958	#8-32 x 3/8" Machine Screw
**23	M264	#6 x 32 x 7/8" Round Head Screw
***24	M270	#6 Internal Tooth Lock Washer
***25	TU3400	#6-32 Hex Nut
***26	FB187	#10 Lock Washer
*27	TU3266	#8-32 Hex Nut

** SOLD ONLY IN MULTIPLES OF 6
 *** SOLD ONLY IN MULTIPLES OF 12
 * SOLD ONLY IN MULTIPLES OF 3

TRouble SHOOTING CHART FOR 28B 30, 36B 30

GAS-----ELECTRIC-----STEAM

TROUBLE	CAUSE	REMEDY
Fan Motor won't start	Line fuse blown	Replace fuse
	Defective timer	Greenwald Series 5900 - See Greenwald Service Manual
	Defective motor	Replace or take to station for repairs. Authorized service
Basket won't revolve- Gas or Electric heating unit does not operate	V-Belt Broken	Replace V-Belt
	V-Belt loose	Adjust belt tension
	Motor pulley loose	Tighten set screws
	Basket Overloaded	Remove load
Basket revolves gas or electric unit does not operate	Electric Power to Heating unit turned off	Turn Power on
	Line Fuse Blown to Heating Unit	Replace Fuse
	Gas turned off	Open manual gas valve
	Gas pressure too low	Check manifold pressure and adjust to pressure specified on rating plate. If this pressure cannot be obtained, have gas supplier check main pressure
	Defective thermostat	Replace thermostat
	Defective safety overheat thermostat	Replace thermostat
	Defective gas valve	Replace solenoid unit.
	Defective Power Relay for electric heating unit	Replace Relay

TROUBLE	CAUSE	REMEDY
Basket won't revolve- Gas or Electric Heating Unit won't operate	Loading door open	Close door
	Lint compartment door open	Close door
	Air Switch not operating	Clean lint drawer Check back draft damper for foreign objects, lint accumulation or other causes that may prevent damper from opening. Check duct work for lint buildup. Check installation sheet to insure that duct work and make up air openings are adequately sized. Check exhaust outlet. If a screen has been improperly installed on the outlet, it may be clogged with lint or frozen over in the winter.
	Air Switch out of adjustment	See Air Switch Adjustment Sheet in Service Manual
	Air Switch defective	Replace Switch
	Door Switch out of adjustment	See Door Switch Adjustment Sheet in Service Manual
	Door Switch defective	Replace Switch
	Defective relay	Replace Relay
Main burners burning with yellow flame	Air shutter closed	Open air shutters on front of burners to give sharp blue flame
	Dirt in burner	Remove burners and blow out with compressed air
	Gas pressure too high	Check manifold pressure and adjust to pressure specified on rating plate.
	Orifices too large	Check with gas supplier to insure that gas being used is the same as that specified on the rating plate. If not, contact the factory for new orifices giving proper gas specifications.
Pilot burner won't light	Gas turned off	Open manual gas valve
	Pilot orifice blocked	Remove and clean.
	Gum filter clogged	Replace with new filter

TROUBLE	CAUSE	REMEDY
Dryer does not heat	Line Fuse Blown To Heating Unit	Replace Fuse
	Power to Heating Unit turned off	Turn on Power
	Pilot burner out	Relight pilot burner
	Main burners not operating	Refer to section in this chart covering this problem
	thermostat defective	Replace
	Gas pressure too low	Check manifold pressure and adjust to pressure specified on rating plate.
	Gas turned off	Open manual gas valve and light pilot burner.
	Improper orifices	Dryer is orificed for type of gas specified on rating plate. Check with gas supplier to determine specifications for gas being used. If different from rating plate, contact factory and obtain proper orifices.
Dryer too hot	Lint accumulated	
	Thermostat defective	Replace thermostat
	Inadequate make up air	Check installation sheet in service manual for recommended minimum make up air opening.
	Gas pressure too high	Check manifold pressure and adjust to pressure specified on rating plate.
	Partially restricted or inadequately sized exhausting system	Check installation sheet in service manual for recommended sizes. Check for and remove obstructions or lint build up from duct work

TROUBLE	CAUSE	REMEDY
Pilot burner lights but won't stay lit	Defective thermocouple	Replace thermocouple
	Pilot orifice dirty	Remove and clean.
	Gum filter partially clogged	Replace with new filter
	Defective power unit	Replace. See gas valve sheet in service manual for proper specifications
Dryer doesn't stop at end of time period		
	Defective timer	Greenwald Series 5900. See Greenwald Service Manual
Motor tripping on thermal overload	Low voltage	Check voltage at motor terminals. Voltage must be within (plus or minus) 10% of voltage shown on motor rating plate. If not, check with local power company for recommended corrective measures.
	Inadequate wiring	Check with local power company to insure that wiring is adequately sized for load.
	Loose connections	Check all electrical connections and tighten any loose connections.
	Inadequate air	Check installation sheet in service manual for recommended make up air openings. Poor air movement or high ambient temperatures around the motors decrease the heat dissipation from the motor and can result in "nuisance trips" of the thermal protector.
	Poor housekeeping	Lint accumulation in the ventilation openings of the motor and insulating blankets of lint on the motor housing will cause a heat build up within the fan motor and result in thermal tripping of the motor.

TROUBLE	CAUSE	REMEDY
Excessive noise or vibration	Dryer not level	Check leveling bolts to make sure of good contact between all four bolts and floor. Adjust bolts to level Dryer.
	Basket out of adjustment	Adjust basket. See basket adjustment sheet in service manual.
	Foreign object stuck in basket perforation and dragging on sweep sheets	Remove
	Loose object in basket	Remove
	V-Belt too loose, too tight, or rubbing fan guard	Adjust and align belt to eliminate rubbing.
	Motor pulley loose	Tighten set screw.
	Fan Blade loose	Check clearance between fan blade and inner edge of inlet ring. Adjust to 1/2" and tighten set screws on fan blade.
No Steam to steam bonnet	Trap installed incorrectly	Check trap for inlet and outlet markings. Install trap according to markings.
	Supply line valve closed	Open Valves in supply and in the return lines
	Check valve installed incorrectly	Check for inlet and outlet marking on check valve, and invert if necessary.
	Strainer Clogged	Remove plug and blow down strainer or remove and clean thoroughly if heavily clogged.
Water in steam line	Steam piping installed incorrectly	Check piping per steam installation instructions.
	Trap not functioning	Check trap for size and capacity. If dirty and sluggish-clean thoroughly or replace. Check return line for high back pressure, or another trap charging against the trap functioning improperly