

OWNER'S MANUAL 30 Lb. Stack Laundry Dryer



MODEL	
GAS	
DR30ST	

IPSO-USA 3101 S. Haven Hwy. 77 Suite A Panama City, FL 32405

Phone: (850)271-8486

THIS MANUAL MUST BE GIVEN TO THE EQUIPMENT OWNER.MAN2030SI (ECN5667)10/99D0540

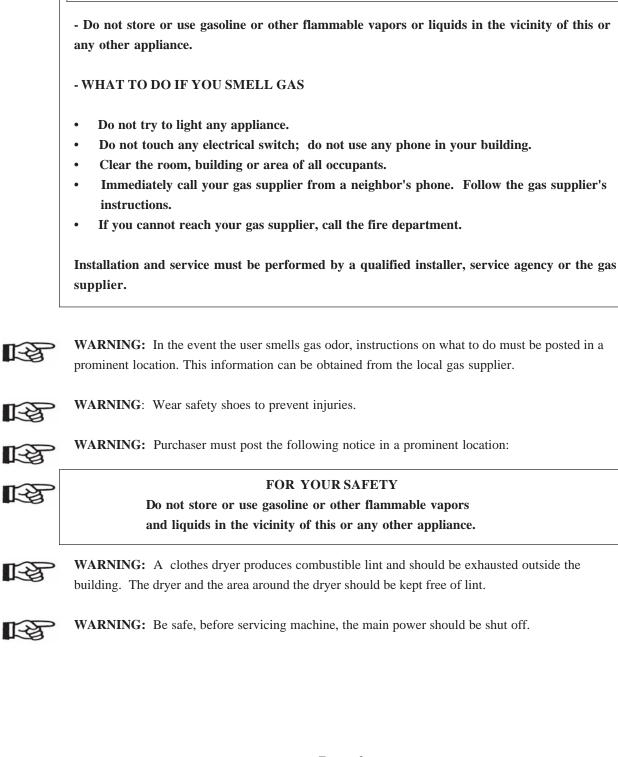
IMPORTANT NOTICES—PLEASE READ

For optimum efficiency and safety, we recommend that you read the Manual before operating the equipment. Store this manual in a file or binder and keep for future reference.

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

WARNING: Purchaser must post the following notice in a prominent location:

स्थि



ATTENTION: L'ACHETEUR DOIT PLACER L'AVERTISSEMENT SUIVANT DANS UN ENDROIT CLAIR ET VISIBLE:

AVERTISSEMENT. Assurez-vous de bien suivre les instructions donnees dans cette notice pour reduire au minimum le risque d'incendie ou d'explosion ou pour eviter tuot dommage materiel, toute blessure ou la mort.

Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre apparell.

_QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:

- Ne pas tenter d'allumer d'apparell.
- Ne touchez a aucun interrupteur. Ne pas vous servir des telephones se trouvant dans le batiment ou vous vous trouvez.
- Evacuez la piece, le batiment ou la zone.
- Appelez immediatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.

l'installation et l'entretien doivent etre assures par un installateur ou un service d'entretien qualifie ou par le fournisseur de gaz.

ATTENTION: L'ACHETEUR DOIT PLACER L'AVERTISSEMENT SUIVANT DANS UN ENDROIT CLAIR ET VISIBLE:

POUR VOTRE SECURITE

Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.



WARNING: To avoid fire hazard, do not dry articles containing foam rubber or similar texture materials. 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 padding or backing. Rubber easily oxidizes causing excessive heat and possible fire. These items should be air dried.



WARNING: Synthetic solvent fumes from drycleaning machines create acids when drawn through the dryer. These fumes cause rusting of painted parts, pitting of bright or plated parts, and completely removes the zinc from galvanized parts, such as the tumbler basket. If drycleaning machines are in the same area as the tumbler, the tumbler's make-up air must come from a source free of solvent fumes.



WARNING: Do not operate without guards in place.

125

WARNING: Check the lint trap often and clean as needed but at least a minimum of once per day.



WARNING: Alterations to equipment may not be carried out without consulting with the factory and only by a qualified engineer or technician. Only **Manufacturer's** parts may be used.



WARNING: Remove clothes from dryer as soon as it stops. This keeps wrinkles from setting in and reduces the possibility of spontaneous combustion.



WARNING: Be safe - shut main electrical power and gas supply off externally before attempting service.

WARNING: Never use drycleaning solvents, gasoline, kerosene, or other flammable liquids in the dryer. FIRE AND EXPLOSION WILL OCCUR. NEVER PUT FABRICS TREATED WITH THESE LIQUIDS INTO THE DRYER. NEVER USE THESE LIQUIDS NEAR THE DRYER..



WARNING: Do not place items exposed to cooking oils in your dryer. Items contaminated with cooking oils may contribute to a chemical reaction that could cause a load to catch fire.



WARNING: Never let children play near or operate the dryer. Serious injury could occur if a child should crawl inside and the dryer is turned on.



WARNING: Never tumble fiberglass materials in the dryer unless the labels say they are machine dryable. Glass fibers break and can remain in the dryer. These fibers cause skin irritation if they become mixed with other fabrics.



WARNING: Before operating gas ignition system - purge air from natural gas or propane gas lines per manufacturer's instructions.



WARNING: To reduce the risk of electric shock, disconnect this appliance from the power supply before attempting any user maintenance other than cleaning the lint trap. Turning the controls to the OFF position does not disconnect this appliance from the power supply.

IPSO DRYER WARRANTY

IPSO warrants all new equipment (and the original parts thereof) to be free from defects in material or workmanship for a period of two (2) years from the date of sale thereof to an original purchaser for use, except as hereinafter provided. With respect to non-durable parts normally requiring replacement in less than two (2) years due to normal wear and tear, and with respect to all new repair or replacement parts for IPSO equipment for which the two (2) year warranty period has expired, or for all new repair or replacement parts for equipment other than IPSO equipment, the warranty period is limited to ninety (90) days from date of sale. The warranty period on each new replacement part furnished by IPSO in fulfillment of the warranty on new equipment or parts shall be for the unexpired portion of the original warranty period on the part replaced.

With respect to electric motors, coin meters and other accessories furnished with the new equipment, but not manufactured by IPSO, the warranty is limited to that provided by the respective manufacturer.

IPSO's total liability arising out of the manufacture and sale of new equipment and parts, whether under the warranty or caused by IPSO's negligence or otherwise, shall be limited to IPSO-USA repairing or replacing, at its option, any defective equipment or part returned f.o.b. IPSO's factory, transportation prepaid, within the applicable warranty period and found by IPSO to have been defective, and in no event shall IPSO be liable for damages of any kind, whether for any injury to persons or property or for any special or consequential damages. The liability of IPSO does not include furnishing (or paying for) any labor such as that required to service, remove or install; to diagnose troubles; to adjust, remove or replace defective equipment or a part; nor does it include any responsibility for transportation expense which is involved therein.

The warranty of IPSO is contingent upon installation and use of its equipment under normal operating conditions. The warranty is void on equipment or parts; that have been subjected to misuse, accident, or negligent damage; operated under loads, pressures, speeds, electrical connections, plumbing, or conditions other than those specified by IPSO; operated or repaired with other than genuine IPSO replacement parts; damaged by fire, flood, vandalism, or such other causes beyond the control of IPSO; altered or repaired in any way that effects the reliability or detracts from its performance, or; which have had the identification plate, or serial number, altered, defaced, or removed.

No defective equipment or part may be returned to IPSO for repair or replacement without prior written authorization from IPSO. Charges for unauthorized repairs will not be accepted or paid by IPSO.

IPSO MAKES NO OTHER EXPRESSED OR IMPLIED WARRANTY, STATUTORY OR OTHERWISE, CONCERNING THE EQUIPMENT OR PARTS INCLUDING, WITHOUT LIMITATION, A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR A WARRANTY OF MERCHANTABILITY. THE WARRANTIES GIVEN ABOVE ARE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. IPSO NEITHER ASSUMES, NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT, ANY OTHER WARRANTY OR LIABILITY IN CONNECTION WITH THE MANUFACTURE, USE OR SALE OFITS EQUIPMENT OR PARTS.

For warranty service, contact the distributor from whom the IPSO equipment or part was purchased. If the distributor cannot be reached, contact IPSO.

IDENTIFICATION NAMEPLATE

The identification nameplate is located on the rear wall of the dryer. It contains the dryer serial number, product number, model number, electrical specifications and other important data that may be needed when servicing and ordering parts, wiring diagrams, etc. Do not remove this nameplate.

TABLE OF CONTENTS30 LB. STACK LAUNDRY DRYER

PAGE

Bearing Replacement Instructions	33
Basket Alignment	34
Basket Shimming Instructions	35
Air Switch Adjustment	36
Tumbler Assembly	37
Door Assembly	38
Control Panel Cover	39
Lint Drawer Assembly	40
Front Panel	41
Coin Control	42
OPL Control	43
Basket Assembly	44
Rear	45
Power Box	46
Basket Support	47
Motor Assembly	48
Air Switch Assembly	49
Idler Assembly	50
Rear Control Box	51
Bonnet Assembly	52

PAGE

SYMBOLS

Symbol	Description
R	NOTE!
	Hot! Do Not Touch Heib! Nicht Beruhren Haute temperature! Ne pas toucher Caliente! no tocar Heet! Niet Aanraken
A	dangerous voltage tension dangereuse Gafahrliche elektrische Spannung tension peligrosa
	on marche Ein conectado
\bigcirc	off arrêt Aus desconectado
	start demarrage Start arranque de un movimiento
	emission of heat in general êmission de chaleur en general Warmeabgabe allgemein emisión de calor
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	cooling refroidissement Kuhlen enfriamiento

The following symbols are used in this manual and/or on the machine.

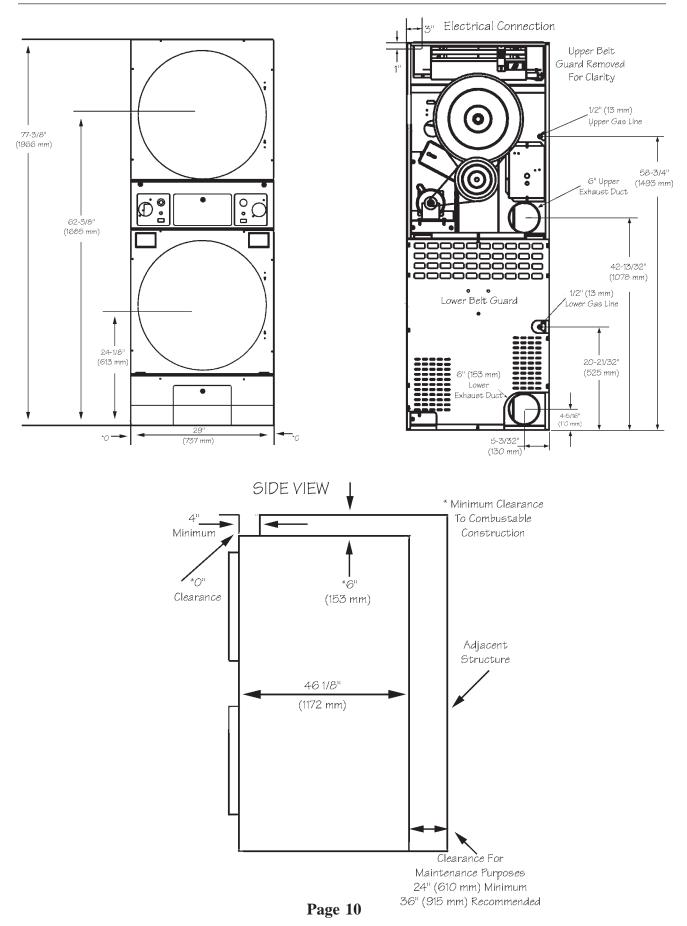
SYMBOLS

The following symbols are used in this manual and/or on the machine.

Symbol	Description
	rotation in two directions rotation dans les deux sens Drehbewigung in zwei Richtungen movimiento rotativo en los dos sentidos
	direction of rotation sens de mouvement continu de rotation Drehbewegung in Pfeilrichtung movimiento giratorio o rotatorio en el sentido de la flecha
\bigcirc	End of Cycle
	caution attention Achtung atencion; precaucion

UNPACKING				
	Upon arrival of the equipment, any damage in shipment should be reported to the carrier immediately.			
	Upon locating permanent location of a unit, care should be taken in movement and placement of equipment.			
	See outline clearance diagrams for correct dimensions.			
	Remove all packing material such as: tape, manuals, skid, etc.			
	Leveling: Use spirit level on top of dryer. Adjust leveling bolts on dryer (see adjustable leveling bolts in maintenance section).			
	Check voltage and amperes on rating plate before installing the dryer.			
	The construction of the 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 motors. Installation clearance from all combustable material is 0" ceiling clearance for the first 4" (102 mm) from the front of the dryer. After the first 4" (102 mm), the ceiling clearance required is 6" (153 mm). The rear clearance required is 6" (153 mm), and the side clearance is 0".			
GENERAL NSTALLATION (ALL DRYERS)	Before operating dryer, open basket door and remove blocking between front panel and basket. Read the instruction tags, owner's manual, warnings, etc.			
	IMPORTANT Opening the clothes loading door deactivates the door switch to shut off the motors, fan, gas, steam, or electric element. To restart the dryer, close the door and press in the push to start button and hold briefly.			
	IMPORTANT This dryer is designed for a capacity maximum load. Overloading it will result in long drying times and damp spots on some clothes.			
	IMPORTANT Maximum operating efficiency is dependent upon proper air circulation. The lint screen must be kept cleaned daily to insure proper air circulation throughout the dryer.			
	IMPORTANT			

Outline Dimensions



General Specifications

GENERAL

SPECIFICATIONS

1		
	Motor Size	1/2 Hp (0.38 kW) per pocket
	Basket Load Capacity	. 30 lb (14 kg) Dryweight per pocket
	Basket Size	. 28" (712 mm) Diameter x 30" (762 mm) Deep (per pocket)
	Door Opening	. 22 5/8" (575 mm)
	Total Amps, Voltage, Cycle	. Refer to rating plate on dryer
	Cabinet Dimensions	. 29" (737 mm) W x 77 3/8" (1965 mm) H x 46-1/8" (1172 mm) D
	Exhaust Air Duct Size	. 6" Diameter (152 mm) per pocket
	Exaust Air Flow	. 450 cfm (765 m ³ /h) per pocket
	*Btu Input	. 80,000 Btu per hour per pocket (20,160 kcal/h) (Natural or LP gases)
	Gas Pressure	. 6" (15 mbar)-12" (30 mbar) WC input (nat. gas) 3.5" (8.7 mbar) WC manifold press. (nat. gas) 10.5" (26.2 mbar) WC manifold press. (LP gas)
	Gas Supply	. 1/2" NPT (DN15) 2 pipe connections
	Electronic Ignition	. Direct spark ignition system
	Net Weight (approx.)	. 858 lb (389 kg)
	Domestic Shipping Weight	. 908 lb (412 kg)
	Export Shipping Weight	. 983 lb (446 kg)
	Export Shipping Dimensions	. 31" (787 mm) W x 48 1/8" (1222 mm) D x 82 3/8" (2092 mm) H
	Export Cube	. 71 ft ³ (2 m ³)

* Input ratings as shown are for elevations up to 2000 ft. (610 m). For elevations above 2000 ft. (610 m), ratings should be reduced 4% for each 1000 ft. (305 m) above sea level.

General Information

GENERAL INFORMATION	The dryer is so designed that when an operator opens the dryer door, the basket and exhaust fan stops. You can expect fast drying from a laundry dryer. Hot, dry air is properly and effectively moved through the basket and exhausted through a lint trap to the atmosphere. The dryer comes equipped with a front accessable, easy cleaning lint drawer.
	Permanent press, durable press and other modern day fabrics require the care that your laundry dryers now provide.
DRYER COOL-DOWN	At the end of the drying cycle, a timed "cool-down" 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 continues for two minutes.

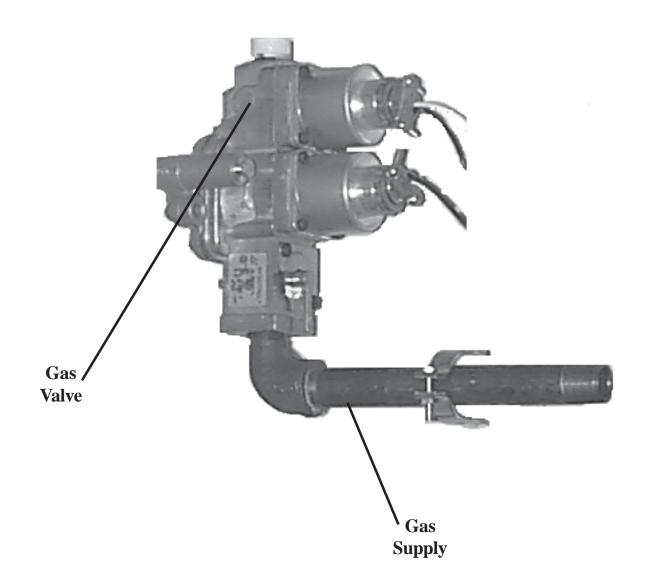
Main	Drive	Motors
------	-------	---------------

<u>Motor No.</u>	Voltage	<u>Hz.</u>	<u>Phase</u>	HP	<u>kW</u>	<u>Amps</u>	<u>RPM</u>
DA-00428-0	115/208-230	50	1	1/2	.38	9.2/4.6	1425
DA-00428-0	115/208-230	60	1	1/2	.38	8.0/4.0	1725
DA-00447-0	220-240/380-415	50	3	1/2	.38	2.2/1.1	1425
DA-00447-0	208-230/460	60	3	1/2	.38	1.9/1/0	1725

Grounding Instructions (Illustration)

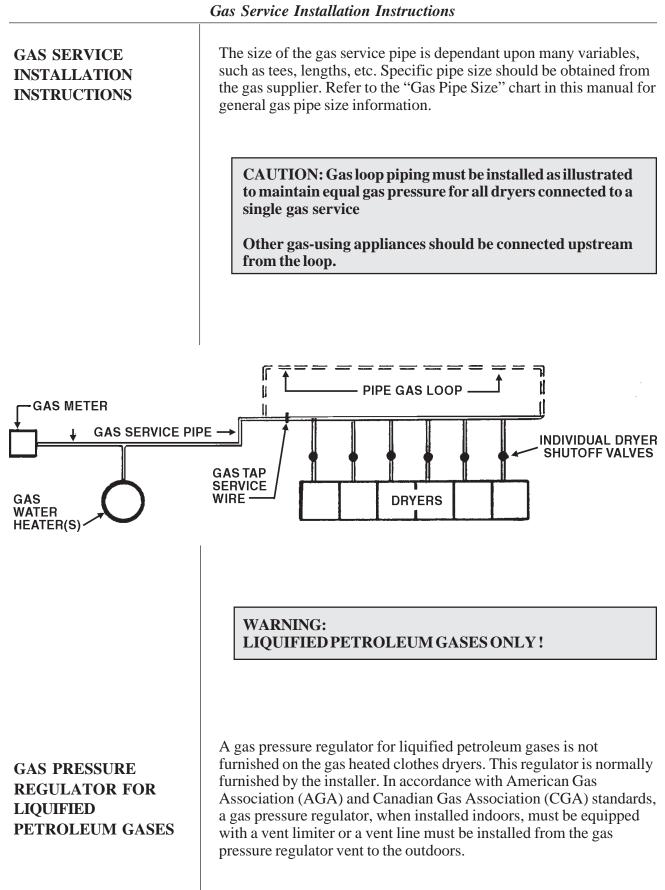
Green Grounding Wire	entropy of the second s
ELECTRICAL CONNECTIONS	Dryers must be electrically grounded by a separate #14 or larger green wire from the grounding terminal within the service connection box to a cold water pipe, or through the fourth green wire properly grounded and connected to the grounding terminal. In all cases, the grounding method must comply with local electrical code requirements; or in the absence of local codes, with the <i>National Electrical Code, ANSI/NFPA 70 or the Canadian Electrical Code, CA C22.1.</i>
	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 dryer rating plate. (Wiring diagram is located on rear wall of dryer.)
ELECTRICAL CONTROLS SERVICING	CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operations.
	Verify proper operation after servicing.
	«Attention. Lors des opérations d'entretien des commandes, ètiqueter tous les fils avant de les dèconnecter. Toute erreur de câblage peut être une source de danger et de panne»

	CAUTION: Low gas pressure and intermittent gas will cause gas ignition problems and inadequate drying of laundry.
	 6. L.P. gas only—check the gas pressure inlet supply to dryer, 13 inches water column (32.4 mbar) maximun. Manifold pressure—10.2 inches water column (25.4 mbar) pressure. 7. A minimum 1/8 - inch NPT plugged tapping, accessible for tests gage connection, must be installed immediately upstream of the gas supply connection to the dryer.
	 Natural gas only—check the gas pressure inlet supply to dryer, 10.5 inches water column (26.2 mbar) maximum. Manifold pressure—3.5 inches water column (8.8 mbar) pressure.
	 Check with utilities company for proper gas pressure and gas supply line.
	3. Check the altitude of dryer.
	2. Check identification nameplate for type of gas for dryer.
GAS PIPING INSTALLATION	1. The installation must conform with local codes, or in the absence of local codes with the <i>National Fuel Gas Code</i> , <i>ANSI Z223.1 or the CAN/CGA-B149</i> , <i>Installation Codes</i> .



The dryer and it's individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).

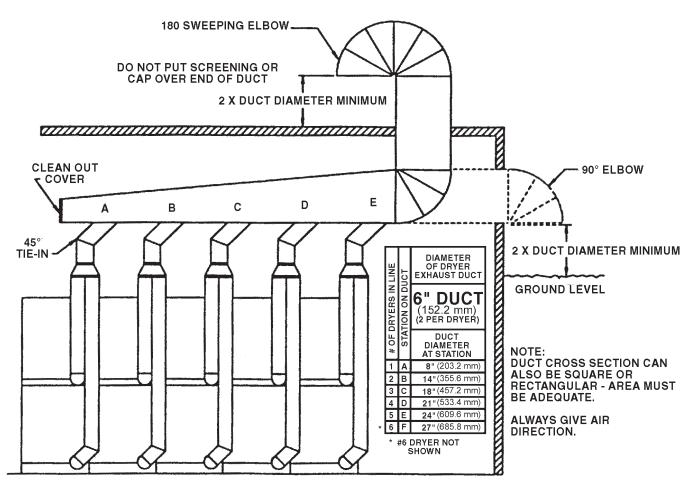
The dryer must be isolated from the gas supply piping system by closing it's individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).



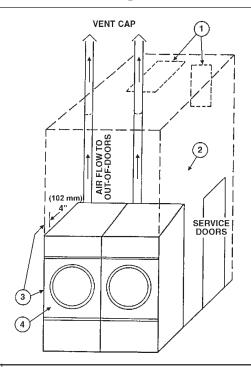
TOTAL BTU/HR (for LP Gas correct total BTU/HR below by	TOTAL KCAL								
multiplying by .6)	HOUR	$\begin{array}{c c c c c c c c c c c c c c c c c c c $							
	nock	7,62 m	(50 ft.) 15,24 m	22,86 m	30,48 m	(123 ft.) 38,1 m	(130 ft.) 45,72 m		
60,000	15000	3/4	3/4	3/4	3/4	3/4	3/4		
80,000	20000	3/4	3/4	3/4	1	1	1		
100,000	25200	3/4	3/4	1	1	1	1		
120,000	30200	3/4	1	1	1	1	1		
140,000	35200	3/4	1	1	1	1	1 1/4		
160,000	40300	3/4	1	1	1 1/4	1 1/4	1 1/4		
180,000	45300	1	1	1	1 1/4	1 1/4	1 1/4		
200,000	50400	1	1	1 1/4	1 1/4	1 1/4	1 1/2		
300,000	75600	1	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2		
400,000	100800	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	2		
500,000	126000	1 1/4	1 1/2	1 1/2	2	2	2		
600,000	151200	1 1/2	1 1/2	2	2	2	2		
700,000	176400	1 1/2	2	2	2	2	2 1/2		
800,000	202000	1 1/2	2	2	2	2 1/2	2 1/2		
900,000	230000	2	2	2	2 1/2	2 1/2	2 1/2		
1,000,000	250000	2	2	2	2 1/2	2 1/2	2 1/2		
1,100,000	270000	2	2	2 1/2	2 1/2	2 1/2	2 1/2		
1,200,000	300000	2	2	2 1/2	2 1/2	2 1/2	2 1/2		
1,300,000	330000	2	2 1/2	2 1/2	2 1/2	2 1/2	3		
1,400,000	350000	2	2 1/2	2 1/2	2 1/2	3	3		
1,500,000	380000	2	2 1/2	2 1/2	2 1/2	3	3		
1,600,000	400000	2	2 1/2	2 1/2	3	3	3		
1,700,000	430000	2	2 1/2	2 1/2	3	3	3		
1,800,000	450000	2 1/2	2 1/2	3	3	3	3		
1,900,000	480000	2 1/2	2 1/2	3	3	3	3		
2,000,000	504000	2 1/2	2 1/2	3	3	3	3 1/2		
2,200,000	550000	2 1/2	3	3	3	3 1/2	3 1/2		
2,400,000	605000	2 1/2	3	3	3	3 1/2	3 1/2		
2,600,000	650000	2 1/2	3	3	3 1/2	3 1/2	3 1/2		
2,800,000	705000	2 1/2	3	3	3 1/2	3 1/2	3 1/2		
3,000,000	750000	2 1/2	3	3 1/2	3 1/2	3 1/2	4		
3,200,000	806000	3	3	3 1/2	3 1/2	3 1/2	4		
3,400,000	850000	3	3 1/2	3 1/2	3 1/2	4	4		
3,600,000	907000	3	3 1/2	3 1/2	3 1/2	4	4		
3,800,000	960000	3	3 1/2	3 1/2	4	4	4		
4,000,000	1000000	3	3 1/2	3 1/2	4	4	4		

Single dryer	Whenever possible, each stack dryer tumbler should have an individual short straight exhaust duct.
Multiple dryers	Whenever possible, each dryer tumbler in multiple installations should have individual short straight exhaust ducts.
	If an individual or dual duct is not possible, install a long tapered main connector duct. A duct exceeding 20" (508 mm) should be a custom duct designed by a professional heating and air conditioner (HVAC) contractor.
	Individual tumbler ducts should enter the main connector duct at a 45° angle in the direction of exhaust air flow.
	The diameter of the main connector duct progressively increases as more dryers are added. (refer to illustration).
Testing	Back pressure of ducting system should not exceed 0.3 inch water column (.75 mbar) when all dryers are operating. Use a manometer for tests. More detailed ducting information can be obtained directly from your heating and air conditioning (HVAC) contractor or dealer.

Multiple vents



TYPICAL MULTIPLE VENTED INSTALLATION



DRYER INSTALLATION WITH SEPARATE EXHAUST (PREFERRED)



For ductwork less than 14 feet (5) and 2 elbows equivalent and less than 0.3 inches (7.7 mm) static pressure:

NEVER exhaust the dryer into a chimney.

NEVER install wire mesh screen over the exhaust or make-up air area.

NEVER exhaust into a wall, ceiling, or concealed space.

- 1. Make-up air opening from outside the building may enter the enclosure from the top or side walls. (*See Dryer Make-Up Air Requirements Chart*)
- 2. Enclosure (plenum) with service door. This separates the dryer air from the room comfort air. If dryers use room air instead of outside air, additional heat loss can be another 25 Btu/h (6.3 kcal/h) for each cubic foot per minute (cfm) (.03m³/min.) used.
- 3. The installation clearance from all combustible material is 0" ceiling clearance for the first 4" (102 mm) from the front of the dryer. After the first 4" (102 mm), the ceiling clearance required is 6" (153 mm). The rear clearance required is 6" (153 mm) and the side clearance is 0".
- 4. Heat loss into laundry room from dryer front panels is about 60 Btu/h per square foot (15 kcal/h per 0.1m²).

Suggested Minimum Dryer Make-up Air Requirements

Dryer Model	Dryer Po Capacity		Maximum Air Flow Rate per Pocket		Duct Size For Service Connection		Required Make-up Air Area per Pocket	
	lb	kg	cfm	m3/h	inch	mm	sq. inch	cm2
C 30	30	13.6	700	1190	8	203	135	871
C 30 E/S	30	13.6	400	680	6	153	77	497
C 30 ST	30	13.6	450	765	6	153	87	561
C 50	50	22.7	800	1360	8	203	154	994
C 50 E/S	50	22.7	450	765	6	153	87	561
C 75	75	34	1000	1700	8	203	192	1239
C 75 E/S	75	34	536	911	6	153	103	665
C 75 ST	75	34	1000	1700	12	305	192	1239
HD80	80	36.3	1465	2490	10	254	282	1819
C 110	110	50	2200	3740	12	305	422	2723
C 110 E/S	110	50	850	1445	8	203	163	1052
C 125	125	56.7	2000	3400	12	305	384	2477
C 150	150	68	2250	3825	12	305	432	2787
HD175	175	79.4	2780	4726	12	305	534	3445
HD190	190	86.2	3000	5100	12	305	576	3716
WMC/HD20) 20	9.1	450	765	6	153	87	561
WMC/HD30) 30	13.6	625	1063	8	203	120	774
WMC/HD50) 50	22.7	700	1190	8	203	135	871
WMC/HD75	5 75	34	750	1275	8	203	144	929

Notes:

1) The Model C 30 ST has 2 pockets per dryer, each pocket has the above listed characteristics; each pocket is exhausted separately with a 6" (153mm) duct.

2) The Model C 75 ST has 2 pockets per dryer, each pocket has the above listed characteristics; both pockets have one 8" (203mm) exhaust manifolded into one 12" (305mm) exhaust duct for exhaust connection.

3) For the C 30 ST and the C 75 ST Models, the Required Make-up Air Area shown in the table should be doubled since it is shown per pocket,only.

4) E/S indicates an Energy Saving Model.

DRYER AIR FLOW Nothing is more important than air flow for the proper operation of a clothes **INSTALLATION** dryer. A dryer is a pump which draws make-up air from the out-of-doors, through the heater, through the clothes and then forces the air through the exhaust duct back to the out-of-doors. Just as in a fluid water pump, there must be a fluid air flow to the inlet of the dryer, if there is to be the proper fluid air flow out of the exhaust duct. In summary, there must be the proper size out-of-doors inlet air opening (4-6 times the combined areas of the air outlet) and an exhaust duct, size and length of which allows flow through the dryer with no more than 0.3 inches water column (.75 mbar) static pressure in the exhaust duct. In some instances, special fans are required to supply make-up air, and/or boost exhaust fans are required for both regular and energy saving models. EXHAUST DUCT FOR BEST DRYING: 1. Exhaust duct maximum length 14 feet (5 m) of straight duct and maximum of two 90° bends. 2. Use 45° and 30° elbows wherever possible. 3. Exhaust each dryer separately. 4. Use 2 feet (0.6 m) of straight duct on dryer before installing an elbow on energy-saver models only. 5. **Do not** install wire mesh or other restrictions in the exhaust duct. 6. Use clean-outs in the exhaust duct and clean periodically when needed. Examine the exhaust system at least once every three months, and more frequently if indicated. 7. Never exceed 0.3 inches water column (.75 mbar) static pressure in the exhaust duct. 8. Inside surface of the duct must be smooth. 9. Recommend pop rivets for duct assembly. FOR BEST DRYING: MAKE-UPAIR 1. Provide opening to the out-of-doors in accordance with the following: For each drver— 6 inches (153 mm) diameter exhaust requires a 1 square feet (0.1 m²) opening for make-up air. 8 inches (204 mm) diameter exhaust requires a 2 square feet (0.2 m²) opening for make-up air. 12 inches (305 mm) diameter exhaust requires a 4 square feet (0.4 m²) opening for make-up air. Use barometric shutters in the inlet air opening to control air when dryers 2. are not running. **Other Recommendations OTHER** RECOMMENDATIONS To assure compliance, consult local building code requirements. TROUBLESHOOTING Troubleshooting Hot dryer surfaces, scorched clothes, slow drying, lint accumulations, or air switch malfunction are indicators of exhaust duct and/or make-up air problems.

Exhaust and Venting

Rules for Safe Operation of Dryer

RULES FOR SAFE OPERATION OF DRYER	 Be sure your dryer is installed properly in accordance with the recommended instructions. CAUTION Be safe—shut main electrical power supply and gas supply off externally before attempting service. CAUTION Never use drycleaning solvents: gasoline, kerosene, or other flammable liquids in the dryer. <i>Fire and explosion will occur</i>. Never use they liquids near the dryer. Always keep the lint screen clean. Never use heat to dry items that contain plastic, foam or sponge rubber, or rags coated with oils, waxes or paints. The heat may damage the material or create a fire hazard. Rubber easily oxidizes, causing excessive heat and possible fire. Never dry the above items in the dryer. Never dry the above items in the dryer. Never use dryer door opening and top as a step stool. Read and follow manufacturer's instructions. Never tumble fiberglass materials in the dryer unless the labels say they are machine dryable. Glass fibers break and can remain in the dryer and could cause skin irritation if they become mixed into other fabrics. Reference: Lighting and shut-down instructions and wiring diagrams are located on the rear wall of the dryer cabinet. The dryer must not be installed or stored in an area where it will be exposed to water and/or weather.
ENERGY-SAVING TIPS	 Install dryer so that you can use short, straight venting. Turned elbows and long vent tubing tend to increase drying time. Longer drying time means the use of more energy and higher operating costs. Operate dryer using full-size loads. Very large loads use extra energy. Very small loads waste energy. Dry light-weight fabrics separately from heavy fabrics. You will use less energy and get more even drying results by drying fabrics of similar weight together. Clean the lint screen area daily. A clean lint screen helps give faster, more economical drying. Do not open the dryer door while drying. You let warm air escape from the dryer into the room. Unload the dryer as soon as it stops. This saves having to re-start your dryer to remove wrinkles.

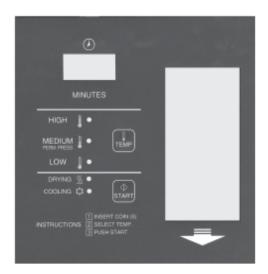
OPERATING INSTRUCTIONS—COIN METER MODELS

OPERATING INSTRUCTIONS—COIN METER MODELS

- 1. After loading the dryer with water washed clothes, close the loading door.
- ELECTRO-MECHANICAL COIN METER: Insert proper coin(s) in slot and turn knob until it stops.
 COMPUTERIZED COIN METER: Insert coin. Amount of drying time will appear on the digital display. Maximum time is 99 minutes. Additional coins may be vended any time during the cycle.
- Turn temperature fabric selection dial to desired setting: HIGH—185° F (85° C) exhaust temperature, *heavy fabrics and hard to dry*, (*cottons and linens*). MEDIUM—150°F (66° C) exhaust temperature, *permanent press*, *synthetic blends*. LOW—135°F (58° C) exhaust temperature, *delicate, sheer fabrics*.
- 4. Press the "Start" button to start the drying and cooling cycles.



ELECTRO-MECHANICAL COIN METER



DMPSIMPLEMICROPROCESSOR

WHAT IS HAPPENING AFTER STEP 4:

- 1. Digital display will count down time remaining in cycle (computerized coin meter).
- 2. The fan motor and basket will revolve.
- 3. The heat source will be energized.
- 4. The heated air will mix with the wet clothes and evaporate the moisture.
- 5. The thermostats will operate at a safe temperature.
- 6. The heat will shut off and the cooling cycle will begin.

Page 23

IMPORTANT	IMPORTANT
	If the dryer door is opened during the drying cycle, the fan and heat will shut off. Press "START" button to resume the cycle.
	This dryer is designed for a capacity maximum load. Overloading it will result in longer drying time and damp spots on some of the load.
	Maximum operating efficiency depends on proper air flow. The lint screen must be kept clean daily to ensure proper circulation of air throughout the dryer.
	This commercial dryer has keys for the lint door and access door to burners and controls. This is for the safety of the user.

	Service Savers		
TROUBLESHOOTING	To help you troubleshoot the dryer, listed below are the most common reasons for service calls and some answers to the problems. Before you call service, please review the following items:		
DRYER WON'T START	 DRYER WON'T START Is the door completely closed? Are the controls set to the "on" position? Did you push the "start" control? Has a fuse blown or a circuit breaker tripped? Are the fuses tight? Check for low voltage. Has the bonnet thermostat (gas only) tripped? If so, push to reset. 		
DRYER WON'T HEAT	 DRYER WON'T HEAT Is the dryer set for "cooling time" rather than "drying time"? Are the gas valves in the dryer and in the main gas line turned on? Check for low or intermittant gas pressure. Check spark ignition module diagnostic light. 		
CLOTHES ARE NOT SATISFACTORILY DRY	 CLOTHES ARE NOT SATISFACTORILY DRY <i>Timed cycle</i>—Did you allow enough heating time before the cool-down part of the cycle? Is the lint screen blocked? Is the exhaust duct to the outside clean and not blocked? (A blocked exhaust will cause slow drying and other problems.) 		
GAS DRYER IGNITION	GAS DRYER IGNITION Refer to the page on " <i>Instructions for the Direct Ignition</i> <i>System Operation</i> ". Check to see if the manual gas valve is open. Then reset the dryer controls. All panels, covers, and doors must be in place and closed before starting the dryer.		
VERY IMPORTANT	VERY IMPORTANT When calling the factory for service, always refer to the model number and serial number.		

TROUBLE	CAUSE	REMEDY
Motor will not start.	No power.	Check fuses on circuit breakers. Make sure main
		control switch is "on". Check bonnet thermostat
		(gas only).
	Incorrect power.	Check power source; voltage, phase and frequency
		must be the same as specified on electrical rating
		plate.
	Time off.	Check timer for proper setting or check coin meter
		for properly vending.
	Loose wiring connections.	Check wire connections in electrical box on rear of
		dryer.
	Loading door open.	Close door.
	Door switch out of adjustment.	Adjust switch by removing front panel and bend
		actuator lever to clear switch button 3/8" with front
		panel in place.
	Defective door switch.	Replace switch.
	Defective basket motor contactor.	Replace contractor.
	Tripped/defective safety thermostat	Reset/replace thermostat.
	on gas bonnet.	*
Motor tripping on	Low voltage.	Check voltage at motor terminals. Voltage must be
thermal.	_	within $\pm 10\%$ 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 for recommended make-up
		air openings.
	Poor housekeeping.	Clean lint accumulation on and around motors.
Dryer does not stop at	Defective timer.	Replace timer.
end of time period.		
Motor runs but basket	V-belt broken.	Replace V-belt.
will not revolve.	V-belt loose.	Adjust belt tension.
	Motor pulley loose.	Tighten set screw.
	Basket overloaded.	Remove load.

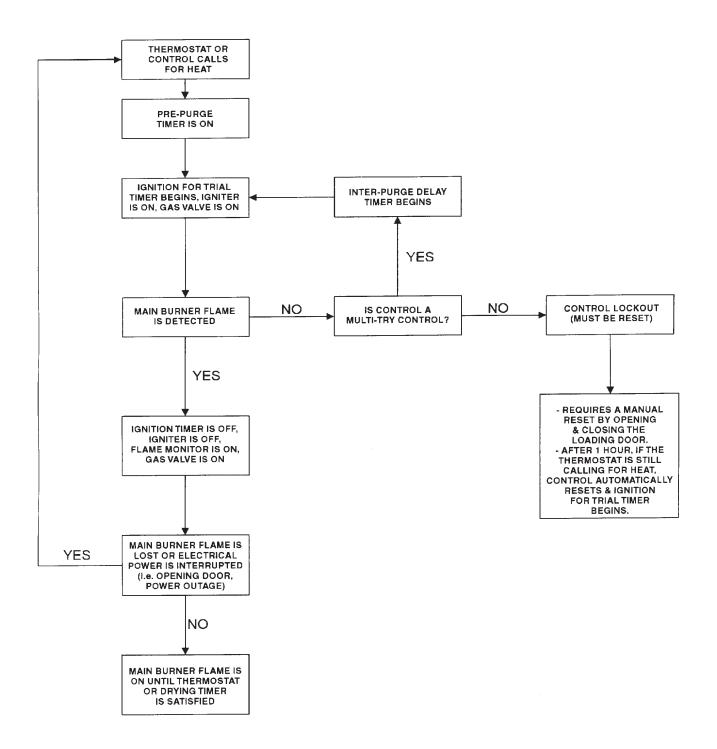
TROUBLE	CAUSE	REMEDY
Dryer noisy or vibrating.	Not leveled.	Check manual for proper leveling procedures.
	Fan out of balance.	Accidental damage to the fan blade can change the dynamic balance. Damaged fans should be replaced.
	Basket rubbing.	Adjust basket clearance.
	V-belt sheaves.	Tighten set screws. Make sure sheaves are in proper alignment.
	Belt.	Adjust belt tension.
	Foreign objects.	Occasionally screws, nails, etc, will hang in the basket perforations and drag against the sweep sheets surrounding the basket. Such foreign objects should be removed immediately.
Dryer runs, but no heat.	Incorrect voltage.	Check for correct control voltage - 120V.
, ,	No voltage.	Check power supply, check secondary voltage on transformer and check wiring and wiring diagram.
	Direct spark ignition module defective.	Replace direct spark ignition module.
	Defective gas valve.	Replace coil assembly.
	Gas turned off.	Turn manual gas valve on.
	Defective door switch.	Replace door switch.
	Air switch not operating.	Clean out lint compartment daily. Check back draft damper for foreign objects, lint accumulation or other causes that may prevent damper from opening. Check duct work for lint build-up. Check installa- tion 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 winter. NEVER install a screen on the exhaust outlet. Vacuum within dryer drops to .09 inches of water column (.23 mbar), or less, for normal operation of dryer. Vacuum reading (in inches of water) should range between .15 (.38 mbar) and .3 inches (.75 mbar). Vacuum reading can be made with a vacuum U-gauge by removing a sheet metal screw in the front panel of dryer and inserting the rubber tube of the vacuum gauge into screw opening.

TROUBLE	CAUSE	REMEDY
Dryer runs, but no heat.	Air switch out of adjustment.	See air switch adjustment sheet.
(continued)	Air switch defective.	Replace air switch.
	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.
	Improper orifices.	Orifices have been sized 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.
	Electric power to heating unit turned off.	Turn power on.
	Line fuse or heater circuit fuse blown to unit.	Replace fuse.
	Defective relay.	Replace relay.
	Defective electric elements.	Replace elements.
	Defective thermostat.	Replace thermostat.
	Defective safety overload thermo- stat.	Replace thermostat.
	Lint compartment door open.	Close door.
Main burners	Orifice location incorrect	Space 1/4" (7 mm) from burner opening
burning improperly.	Dirt in burner.	Blow out.
	High gas pressure.	Adjust gas pressure per rating plate.
	Orifice too large.	Send to factory for correct orifices.
	Restricted or blocked exhaust.	Clean exhaust.
Main burner cycles on and off.	Direct spark ignition defective.	Replace direct spark igniter.
Low or high gas flame.	Incorrect main burner orifices.	Replace orifices. Check factory for correct size.

TROUBLE	CAUSE	REMEDY		
Dryer too hot.	Incorrect main burner orifices.	Replace orifices. Check factory for correct size.		
	Inadequate make-up air.	Make-up air must be 4 to 6 times the exhaust area of the dryer.		
	Lint accumulated.	Remove lint.Must be full open- replace if not.Adjust gas pressure per rating plate.		
	Exhaust duct dampers.			
	High gas pressure.			
	Partially restricted or	Check service section for recommended sizes.		
	inadequately sized exhaust system.	Remove obstructions or lint build up from duct		
		work. NEVER use smaller size exhaust duct.		
		ALWAYS use larger size.		
	Defective thermostat.	Replace thermostat.		

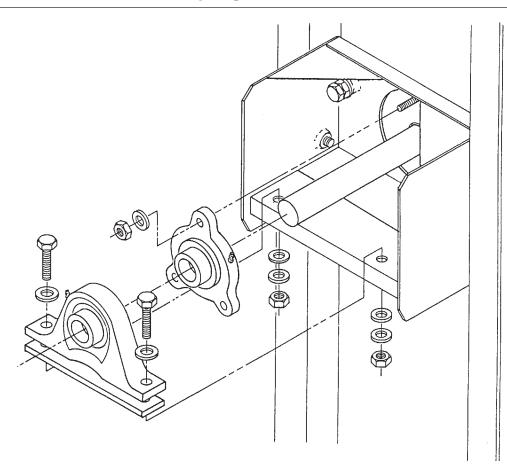
DIRECT SPARK IGNITION OPERATION	NOT	E:	Some models are equipped with a dual ignition system. The dual ignition system contains two direct spark ignition modules in parallel. Each module has its own flame sense circuit and acts independently of the other. If either bonnet limit thermostat opens because of high heat or flame impingement, the entire ignition system will shut down.
	t t I	24VAC imer be ejected j period, t	call for heat is received from the control supplying to the ignition control module, the pre-purge delay gins. This delay time allows any air/sediment to be prior to burner ignition. Following the pre-purge delay he gas valve is energized and the spark ignitor sparks rial ignition period.
			flame is detected during the trial for ignition period, the nitor shuts off and the gas valve remains energized.
	t 1 1 1 1	control 1 curned o no flame module module will con	me is detected by the flame sense circuit, the ignition nodule will go into safety lockout. The valve will be ff immediately. If the module has multiple retries and e is detected, the gas valve is de-energized and the goes into an interpurge delay. After this delay, the will attempt another trial for the ignition period. This tinue until the number of retries has been used up. At , the module will go into safety lockout.
	8	a. A m b. Afte heat	y from safety lockout requires one of the following: anual reset by opening and closing the loading door. r one hour if the control thermostat is still calling for , the module will automatically reset and the trial for ion period will start over.
	(the loading door will cause the flame to extinguish. the door and starting the dryer will restart the trial for period.
	C 1	drying ti nodule(e control thermostat has been satisfied and/or the mer has been timed out, the ignition control s) will be de-energized, the gas valve(s) will be de- d and the flames will extinguish.
	ł	neat. Th	thine will continue to run in a cooldown mode without his process will cool the load to the touch and help to e wrinkling.

DIRECT SPARK IGNITION OPERATION FLOW CHART



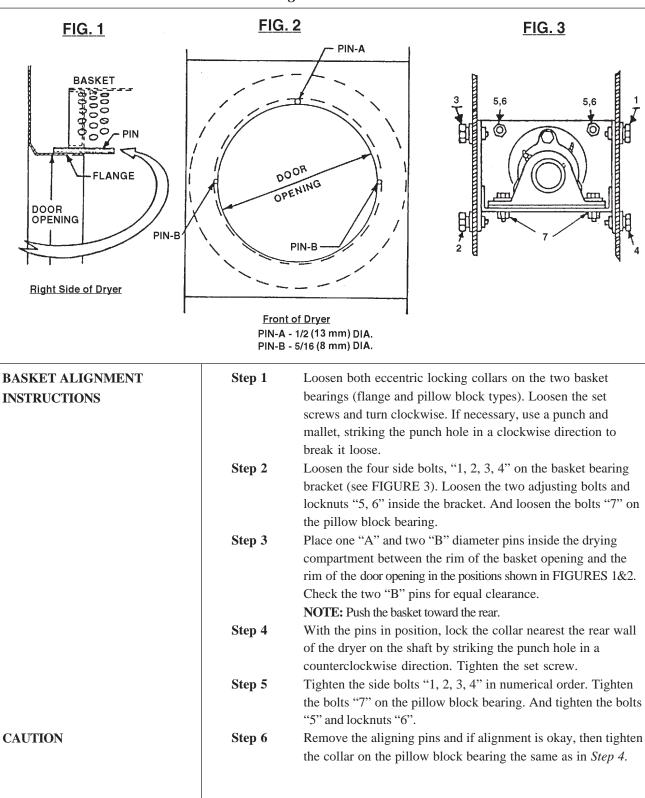
General Maintenance

GENERAL MAINTENANCE	1.	Clean lint trap daily. Remove lint before or after each day of operation. A clean lint trap will increase the efficiency of the dryer and the moisture-laden air will be exhausted outside more quickly.
	2.	Keep basket and sweep sheets clean. Clean as often as needed. The basket and sweep sheets are accessible by removing the front panel of the dryer.
	3.	Gas burners. Check and clean often.
	4.	Pulleys and belts. Keep clean as oil and dirt will shorten the life of a belt. Check periodically for alignment. Pulley shafts must be parallel and the grooves must be aligned. Check belt tension periodically. Adjust tension by movement of idler bracket. Lubricate idler pulley once every two months using six grams of high temperature grease. Do not over-grease.
	5.	Electric motor. Keep motor clean and dry. Motors are packed with sufficient grease for 10 years normal service. After that, bearings and housing should be cleaned and repacked one third full with Chevron grease No. SR1-2. See label on motor for further information.
		If motor overheats, check voltage and wiring. Low voltage, inadequate wiring and loose connections are the main cause of motor failures.
	6.	Adjustable leveling bolts. One at each corner permits accurate alignment of dryer. To adjust: Block one corner of dryer up off the floor, loosen hex nut. With wrench, turn bolt clockwise to raise dryer, opposite to lower. Rear bolts are outside of dryer and front bolts are inside lint trap compartment.
	7.	Periodically clean and examine exhaust system.
	8.	Keep dryer area clean and free of gasoline, combustible materials and other flammable liquids or vapors.
	9.	Do not obstruct the flow of combustion (make-up) air and ventilating air.
	10.	Check gas pressure periodically.
	11.	Main Basket Bearings. Lubricate once every six months using six grams of high temperature grease. Do not over-grease.



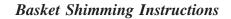
BEARING REPLACEMENT INSTRUCTIONS

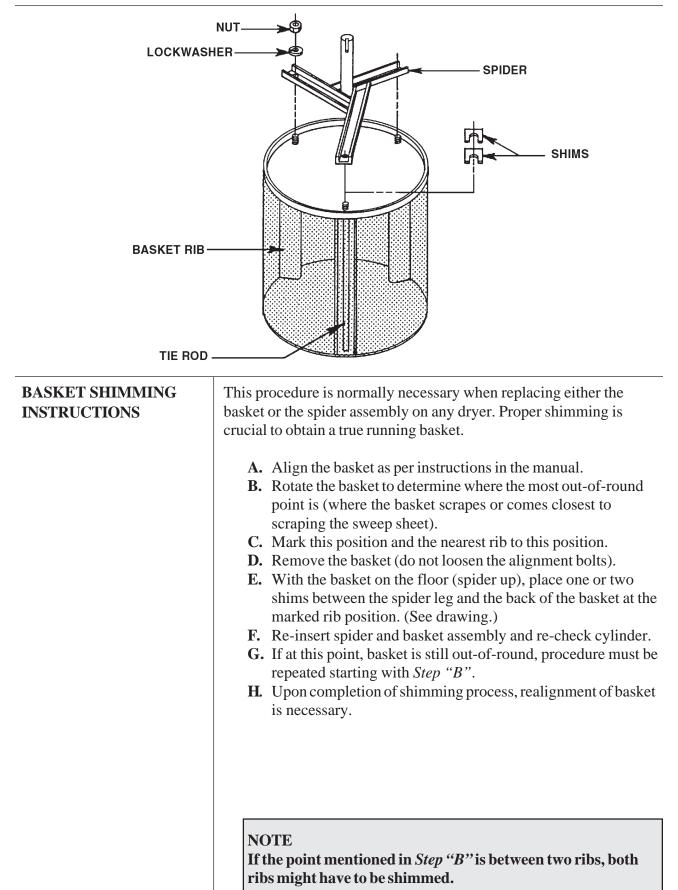
- Step 1 Remove belt guard, V-belt, spacer and basket sheave.
- **Step 2** Loosen set screws on the flange bearing and on the pillow block bearing.
- **Step 3** Remove the bolts holding the pillow block bearing and take it off the shaft.
- **Step 4** Remove the nuts and washers holding the flange basket bearing and take it off the dryer.
- Step 5 Inspect the bearings for damage and replace as necessary, in reverse order of removing them. Before tightening securely, align basket per instructions on separate instruction sheet.
- **Step 6** Lubrication guide---Bearings never need lubrication. They have been permanently lubricated by the supplier with a high temperature grease.

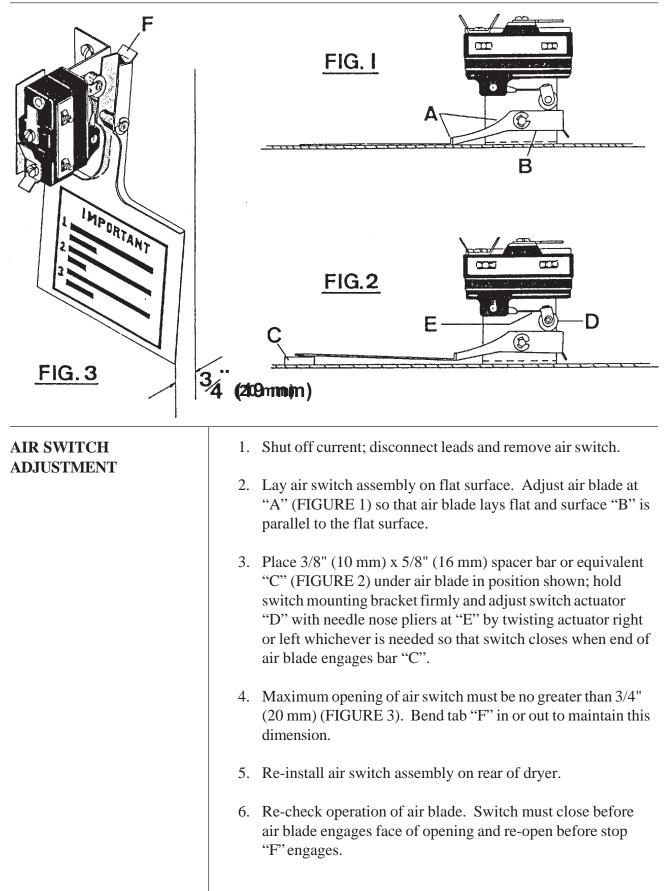


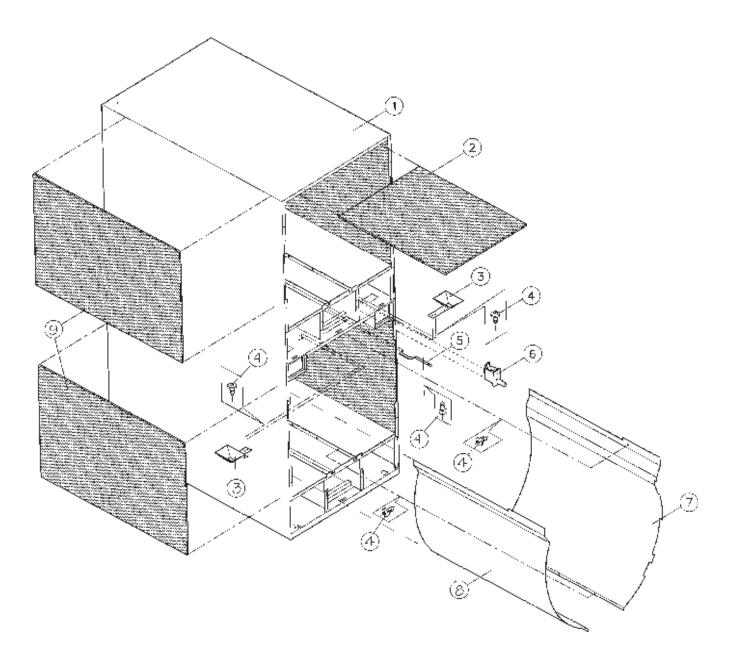
CAUTION

Check to see that the set screws are wrench tight on the locking collars.





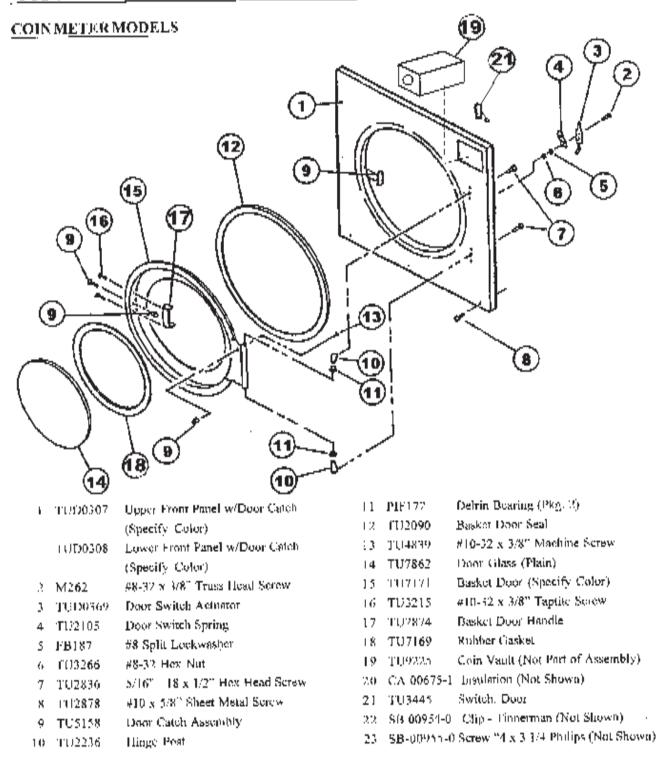




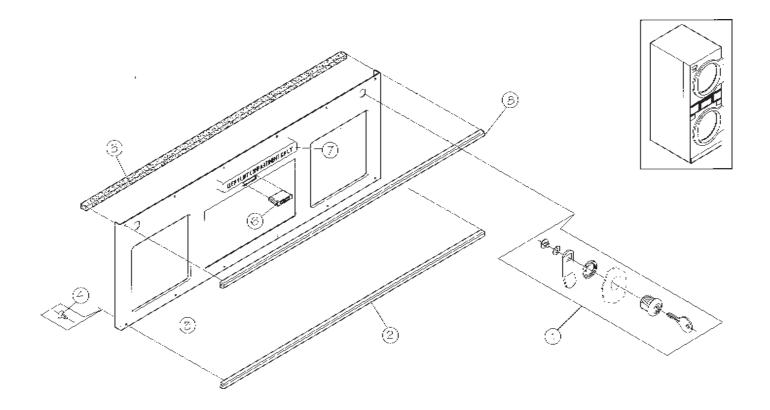
Ref.	Part	
No.	No.	Description
1	TUD0083	JACKET WELDED ASS'Y
2	TUD0283	INSULATION, TOP
3	TUD0375	COIN CHUTE
4	TU7733	SCREW SELF TAP
5	TUD0258	SPRING RETAINER
6	EA-00650-0	SWITCH, LINT DRAWER
7	TUD0241	SWEEP SHEET LR
	TUD0239	SWEEP SHEET UR
8	TUD0240	SWEEP SHEET LL
	TUD0134	SWEEP SHEET UL
9	TUD0282	INSULATION SIDE

Parts—Tumbler Assembly

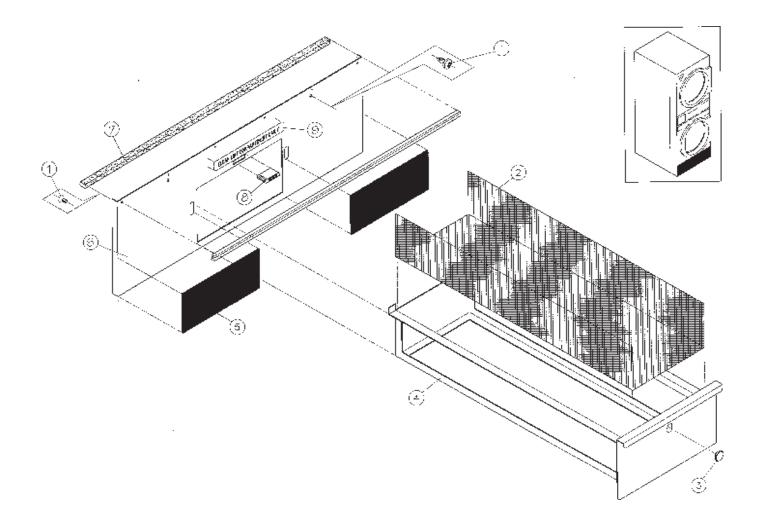
TUD0387 - LOWER FRONT PANEL AND DOOR ASSY with Painted Steel Door TUD0272 - UPPER FRONT PANEL AND DOOR ASSY with Black Steel Door TUD0273 - LOWER FRONT PANEL AND DOOR ASSY with Black Steel Door



NOTE: TUD0370-Actuator Door Switch Assembly Consists of Ref. No. 2-6 and 21-23 TU9040-Door Assembly Consists of Ref. No. 11-18 (Specify Color)

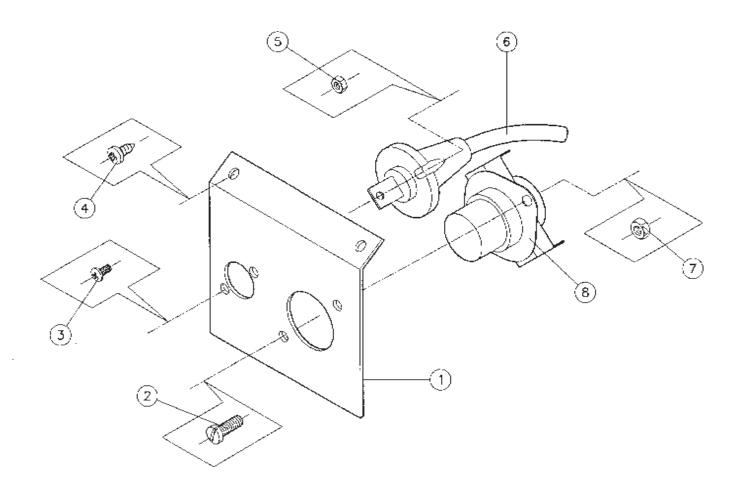


Ref. No.	Part No.	Description
1	LA-00121-0	LOCK AND KEY CONTROL
2	CA-00748-0	TRIM, BOTTOM ALM
3	TUD0234WH	COVER PLT W/A
4	SB-00951-0	SCREW #8
5	TU2853	LINT DRAWER GASKET
6	TUD00366	MAGNET SNAP CATCH
7	TU7858	LABEL, INSTRUCTIONS
8	CA-00749-0	TOP TRIM, ALM



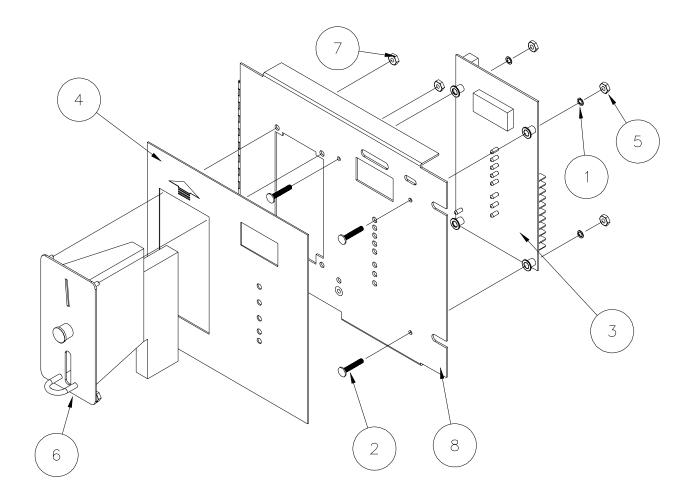
Ref.	Part	
No.	No.	Description
1	SB-00951-00	SCREW, #8
2	TUD0256	MESH SCREEN
3	TUD0412	PLUG-DOUBLE-D(NO LOCK)
3A	LA-00121-0	LOCK
4	TUD0279WH	FRAME, DRAWER(NO LOCK)
4A	TUD00048WH	FRAME, DRAWER(LOCKING)
5	TUD0198	KICK PLATE
6	TUD0249WH	COVER PLT W/A
7	TU2853	GASKET
8	TUD00366	MAGNET SNAP CATCH
9	TU7858	LABEL, INSTRUCTIONS

THERMOSTATASS'Y

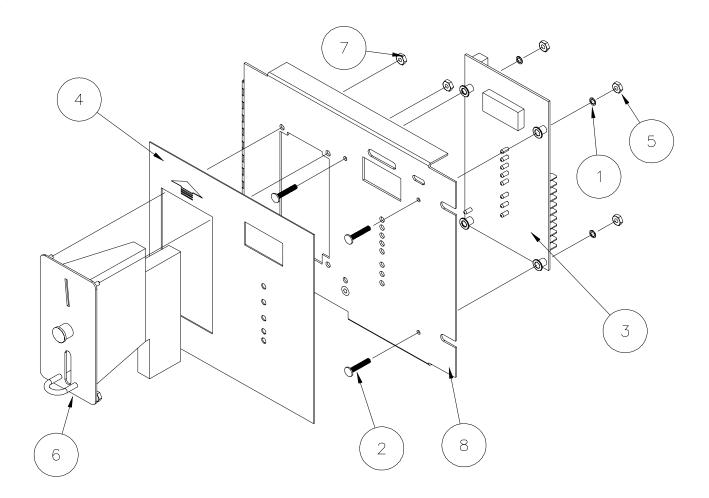


Ref. No.	Part No.	Description
		•
1	TUD0259	THERMOSTATBRACKET
2	TU7733	SELF TAP SCREW
3	SB-00952-0	SCREW 6/32-3/8
4	TU7733	SELF TAP SCREW
5	TU3400	NUT, HEX #6-32
6	TU11991	THERMOSTAT-CONTROL
7	TU3266	NUT, BRASS-HEX #8-32
8	EA-00594-0	SAFETY THERMOSTAT

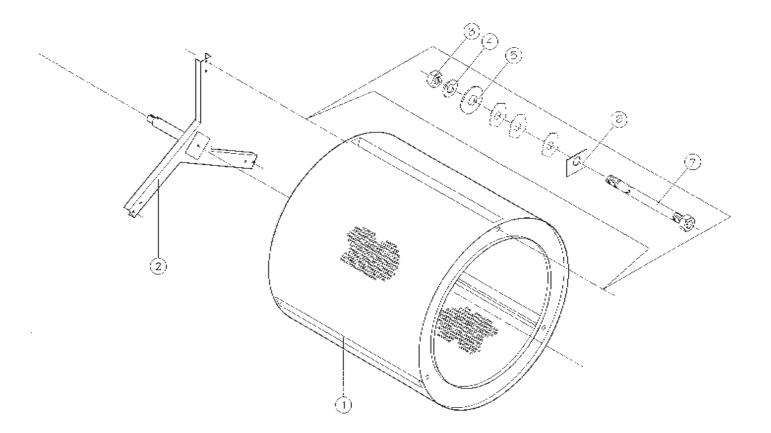
CONTROL-COIN



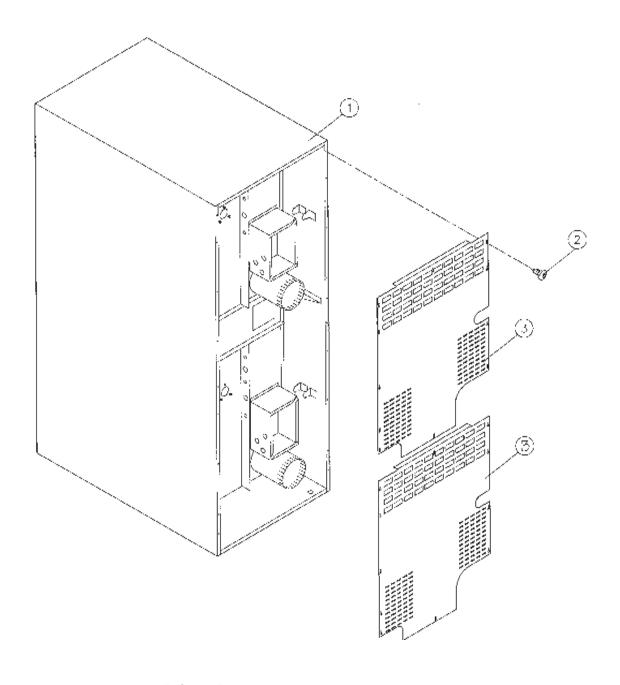
Ref.	Part	
No.	No.	Description
1	M270	#6 LOCK WASHER
2	TU12253	STUD, #6-32
3	TU14404	CONTROL (DMP)
4	TU14451	OVERLAY (UPPER)
	TU14406	OVERLAY (LOWER)
5	TU3400	NUT, #6-32
6	TUD0336	COIN DROP
7	TUD0367	#5-40 NUT
8	TUD0452	ASM, DMPC PANEL (UPPER)
	TUD0453	ASM, DMPC PANEL (LOWER)



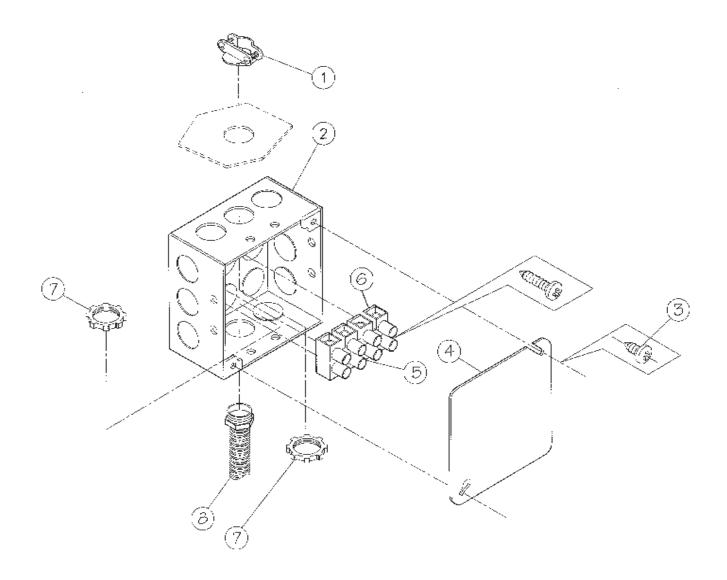
Part	
No.	Description
M270	#6 LOCK WASHER
TU12253	STUD #6-32
TU14404	DMP CONTROL
TU14405	OVERLAY
TU3400	NUT, #6-32
TUD0458	LFT DMP PANEL (UPPER)
TUD0459	RHT DMP PANEL (LOWER)
	No. M270 TU12253 TU14404 TU14405 TU3400 TUD0458



Ref.	Part	
No.	No.	Description
1	TU2083	BASKETASS'Y
2	TUD0089	SPIDER W/A
3	TU2882	NUT HEX 1/2-20
4	TU2883	WASHER 1/2"-CUT
5	TU2831	1/2" WASHER
6	TU5863	ADJUSTING SHIM
7	TU2313	BOLT 1/2-20 x 31

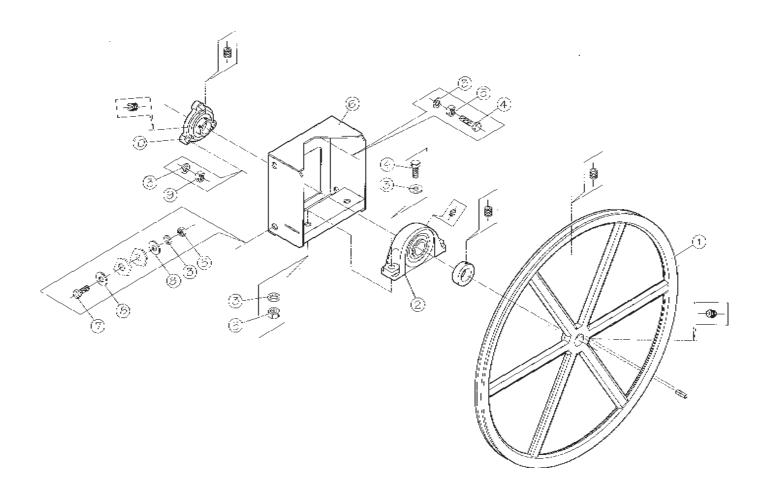


Part No.	Description
TUD0083	JACKET WELDED ASS'Y
TU7733	SCREW SELF TAP
TUD0246	BELT GUARD COVER
	No. TUD0083 TU7733

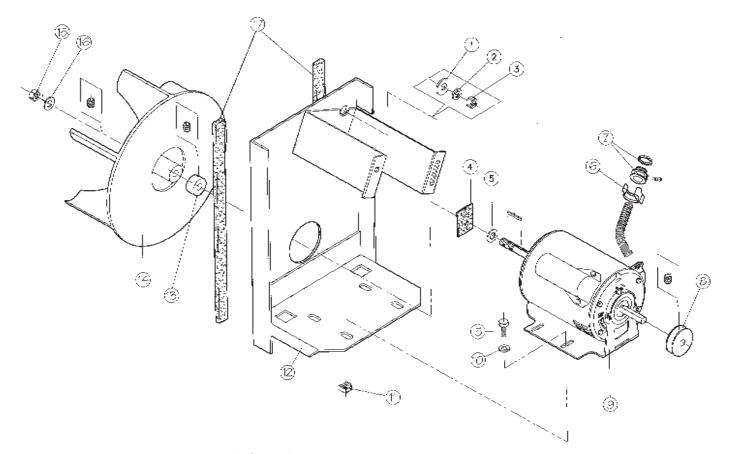


Ref. No.	Part No.	Description
1	C1365	REGAL CONNECTOR
2	SC517	J-BOX
3	TU7733	SELF TAP SCREW
4	SC518	J-BOX COVER
5	TU14958	TERMINAL BLOCK
6	TU14959	TERM. BLK END/GRND
7	C170	BUSHING
8	CFA2400	FLEXABLE CONDUIT
0	CIA2400	FLEAADLECONDUIT

BASKET SUPPORT



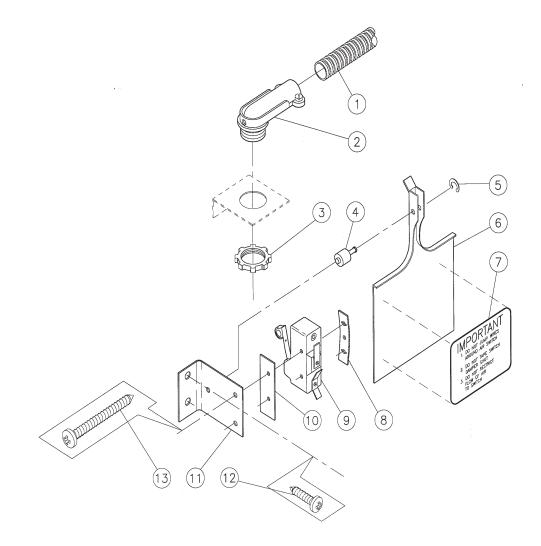
Ref. No.	Part No.	Description
1	TUD0076	PULLEY 18" CAST IRON
2	TU10676	BEARING, PILLOW BLOCK
3	OP251	WASHER, 1/2" FLAT
4	TU2195	1/2" BOLT
5	OP233	NUT, 1/2"
6	TUD0411	BEARING BOX ASSY
7	RC347	CAP SCREW 1/2-13
8	TU2883	WASHER 1/2" FLAT
9	TU13372	NUT, 1/2-13 W/NYLON
10	TU10002	FLANGEBEARING



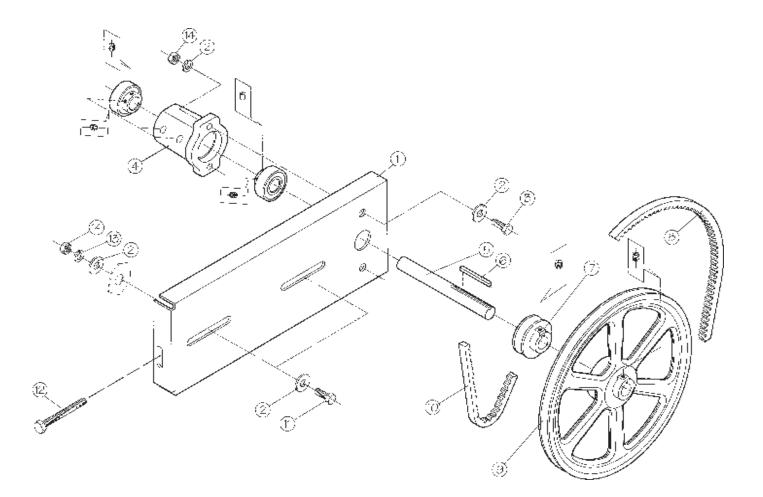
Ref.	Part	
No.	No.	Description
1	IB140	3/8" FLAT WASHER
2	VSB134	3/8" LOCK WASHER
3	TU4787	NUT, 3/8-16
4	DA-00460-0	FELTSEAL
5	FB124	WASHER 5/16-18
6	EA-00648-0	BRACKETCLIP
7	EA-00211-0	CONNECTOR 3/8" STRT
8	DA-00510-0	PULLEY, 2.5 (50HZ)
	DA-00516-0	PULLEY, 2 (60HZ)
9	DA-00428-0	MOTOR 1/2HP-115/230V 1PH
	DA-00447-0	MOTOR 1/2HP-220/380V 1PH
10	VSB130	5/16 WASHER
11	C249	NUT
12	TUD0180	MOTOR MOUNT W/A
13	FG364	FAN SPACER
14	TUD0032	FAN
15	SB-00813-0	LOCK NUT
16	SB-00847-0	WASHER 1"
17	TU2853	FOAMGASKET

Page 48

AIR SWITCH ASS'Y

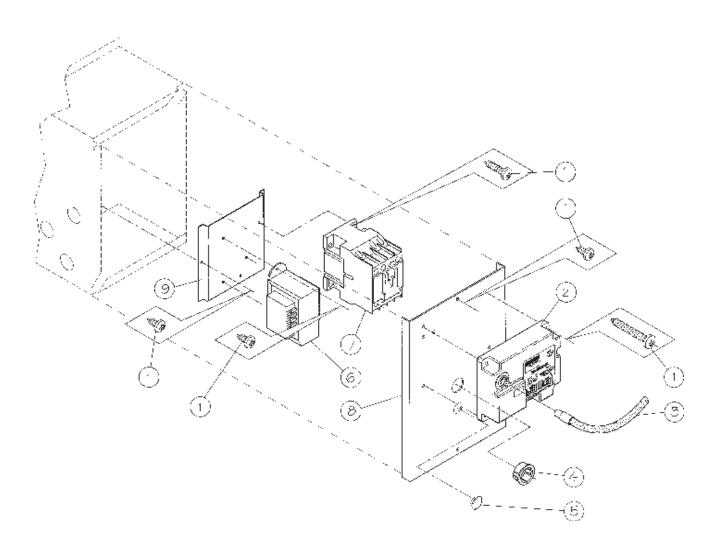


Ref. No.	Part No.	Description
		-
1	CFA4000	CONDUIT 3/8"
2	F876	CONNECTOR, TOMIC ANGLE
3	C170	BUSHING
4	F888	"E" RING
5	TU2463	ACTUATOR ARM
6	TU3476	AIR SWITCH DECAL
7	TU1771	TINNERMAN NUT #6
8	TU8155	SWITCH
9	TU1770	INSULATOR
10	TU7733	SCREW SELF TAP
11	TU8171	AIR SWITCH BRACKET
12	TU3219	SCREW #6 RD HD

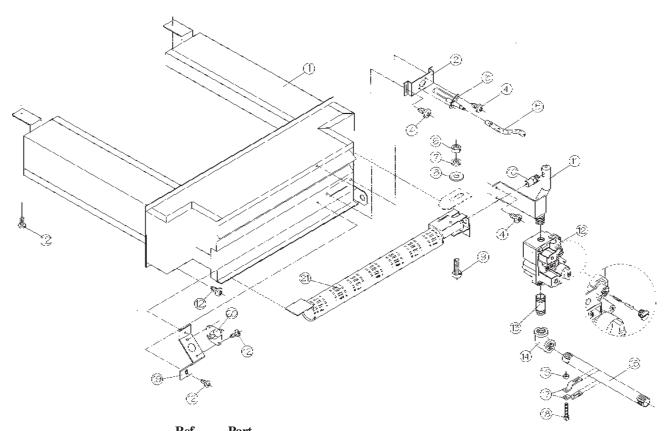


Ref. No.	Part No.	Description
1	TUD0174	IDLER ADJUSTING PLATE
2	VSB130	5/16" WASHER
3	FB124	5/16 BOLT
4	TUD0171	BEARING HOUSING ASS'Y
5	DA-11711-0	SHAFT
6	TUD0187	KEY
7	DA-00530-0	PULLEY 2.5"
8	TUD0196	AX34 BELT- COG
9	DA-00531-0	9" PULLEY
10	DA-00522-0	AX62 BELT - COG
11	TU5439	BOLT 5/16-8
12	PT539	1/4-20 CAP SCREW
13	TU3212	WASHER 5/16" TOOTH
14	C249	NUT 5/16"

REAR CONTROL BOX



Ref. No.	Part No.	Description
1	TU7733	SCREW SELF TAP
2	TU14675	SPARK MODULE 24V
3	GA-00803-0	HI-VOLT CABLE
4	TU2372	SNAP BUSHING
5	TU2490	PLUG
6	TU13463	CONTACTOR-24V9AMP
7	TU13480	TRANSFORMER 200-240V
	TU13515	TRANSFORMER 120V
8	TUD0243	COVER, REAR CTL/BOX
9	TUD0315	PLATE-CONTROL PNL



Ref.	Part	
No.	No.	Description
1	TUD0162	BONNET WELDED ASS'Y
2	TUD0242	IGNITOR MOUNTING BRACKET
3	GA-00764-0	IGNITOR ELECTRODE
4	TU7733	SCREW SELF TAP
5	GA-00803-0	HI-VOLTAGE CABLE
6	TU4934	NUT 1/4-20
7	TU2846	LOCK WASHER 1/4
8	TU2847	WASHER 1/4
9	CB36	HEX HD SCREW 1/4-20
10	TU3539	ORIFICE
11	GA-00774-0	PIPE MANIFOLD
12	TU13523	GASVALVENG
	TU13513	GASVALVELP
13	OP290	NIPPLE PIPE-1/2X2
14	OP291	90 DEG ELBOW
15	390401013	NIPPLE PIPE 1/2-7
16	FB185	NUT #10
17	TU1815	PIPE CLAMP
18	TU3486	BOLT #10
19	TUD0173	HI LIMIT MOUNTING BRKT
20	EA-00243-0	HI-LIMIT THERMOSTAT
21	TU13502	BURNER 50mm