Drying Tumblers 175 Pound Capacity

Keep These Instructions for Future Reference.

(If this machine changes ownership, this manual must accompany machine.)



Part No. D0873 November 2007

Addendum A

Information in this manual is applicable to these models:

HD175

IMPORTANTNOTICES—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 loss of life.

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

- WHAT TO DO IF YOU SMELL GAS

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

Installation and service must be performed by a qualified installer, service agency or the gas supplier.



WARNING: In the event the user smells gas odor, instructions on what to do must be posted in a prominent location. This information can be obtained from the local gas supplier.



WARNING: Wear safety shoes to prevent injuries.



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



FOR YOUR SAFETY

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



WARNING: A clothes dryer produces combustible lint and should be exhausted outside the building. The dryer and the area around the dryer should be kept free of lint.



WARNING: Be safe, before servicing machine, the main power should be shut off.



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.



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** 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.

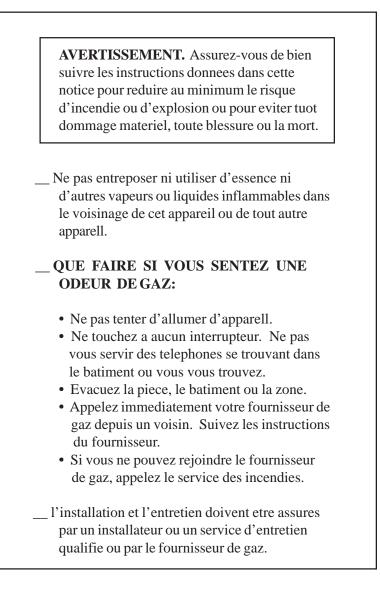


WARNING: Before operating gas ignition system - purge air from natural gas or propane gas lines per manufacturer's instructions.



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.

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



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.

TABLE OF CONTENTS

PAGE

Important Notices	
Table of Contents	
Customer Service	5
Warnings, Cautionary Notes and Symbols	6-7
Rules for Safe Operation of Your Dryer	
Two Timer Models	
Service Savers	
Troubleshooting Charts	
Direct Spark Ignition Operation	
General Maintenance	
Basket Alignment	
Shimming the Basket and Spider Assembly	
Air Switch Adjustment	
Pulley and Belt Maintenance	
Overload Heaters for Overload Relays	

(C) Copyright Alliance Laundry Systems LLC

All rights reserved. No part of the contents of this book may be reproduced or transmitted in any form or by any means without the expressed written consent of the publisher.

CUSTOMER SERVICE

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

SYMBOLS

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

Symbol	Description
R S	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
0	off arrêt Aus desconectado
\bigcirc	start demarrage Start arranque de un movimiento
<u> </u>	emission of heat in general êmission de chaleur en general Warmeabgabe allgemein emisión de calor
	cooling refroidissement Kuhlen enfriamiento

SYMBOLS

The following symbols are used in this	manual and/or on the machine
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		
	End of Cycle		
	caution attention Achtung atencion; precaucion		

RULES FOR SAFE OPERATION OF YOUR DRYER

RULES

1. Be sure your dryer is installed properly in accordance with the recommended instructions.

2. CAUTION

Be safe - Shut main electrical power supply and gas supply off externally before attempting service.

3. CAUTION

- a. Never use dry cleaning solvents: gasoline, kerosene, or other flammible liquids in the dryer.
 FIRE AND EXPLOSION WILL OCCUR!
- b. **Never** put fabrics treated with these liquids into the dryer.
- c. Never use these liquids near the dryer.
- d. **Always** keep the lint screen clean; a full lint screen may be a fire hazard.
- e. **Never** use heat to dry items that contain plastic, foam, or sponge rubber, or rags coated with wax or paint. 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.
- 4. **Never** let children play near or operate the dryer. Serious injury will occur if a child should crawl inside and the dryer is turned on.
- 5. **Never** use the dryer door opening and top (or the lint drawer) as a step stool.
- 6. Read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed any warnings or precautions.
- 7. **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 irriatation if they become mixed into other fabrics.
- 8. **Reference** Lighting and shutdown instructions and wiring diagrams are located on the rear wall of the dryer cabinet.

NOTE:

It is best to run a properly sized load of rags and/or old towels through one or two cycles prior to drying in service. This process will remove any films or residual coatings left by the manufacturing processes.



Raies for Safe Operation of Tour Dryer			
Ŵ	CAUTION Synthetic solvent <i>fumes</i> from dry cleaning machines create acids when drawn through the dryer. These acid fumes cause rusting of painted parts, pitting of bright plated parts and completely removes the zinc from galvanized metal parts, such as the tumbler basket. If the dry cleaning machines are in the same area as the tumbler, then the tumbler <i>make-up air</i> must come from a source free of solvent fumes.		
ENERGY SAVING TIPS	 ENERGY SAVING TIPS Install dryer so that you can use short, straight venting. Turns, elbows and long vent tubing tend to increase drying time. Longer dry 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 lightweight fabrics separately from heavy fabrics. You'll use less energy and get more even drying results by drying fabrics of similar weight together. Clean the lint screen after each load. A clean lint screen helps give faster, more economical drying. Don't open the dryer door while drying. You let warm air escape from the dryer into the room. Unload your dryer as soon as it stops. This saves having to re-start your dryer to remove wrinkles. 		
ABOVE 2,000 FEET	ELEVATIONS ABOVE 2,000 FEET Input ratings shown on the rating plate (serial tag) are for elevations up to 2,000 feet. For elevations above 2,000 feet, rating should be reduced at a rate of 4% for each 1,000 feet above sea level.		

Rules for Safe Operation of Your Dryer

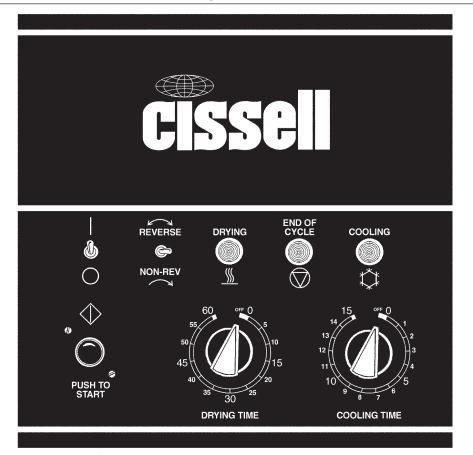
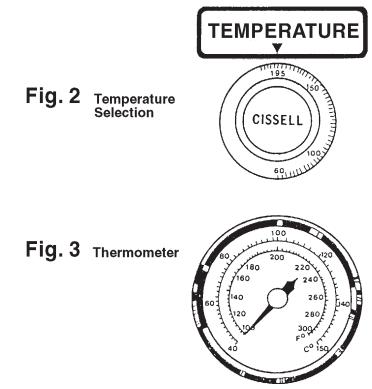


Fig. 1



OPERATING INSTRUCTIONS -TWO TIMER MODELS

1. After loading the dryer tumbler with water washed clothes load, proceed to close the loading door. For better drying, do not load dryer with combination of garments that twist.
2. Turn the 60-minute drying timer to the desired drying time. The drying cycle light will be on and indicate the drying. The light shuts off when drying time is complete. (See figure 1)
3. Turn the 15-minute cooling cycle timer to the desired cool down time. (Note: Dryer will not start unless some cooling time is selected!). After the drying cycle is completed, then the cooling cycle time will automatically operate. The cooling light will be on and indicate the cooling of the clothes load. The light shuts off when cooling time is completed. (See figure 1)
 4. Temperature Selector - Select temperature per type of load being dried in the dryer. (See figure 2) High Heat - Mixed and heavy fabrics, set dial to 195° F (91° C). Normal - Cottons and linens, set dial to 170° F (77° C). Permanent Press Heat - Poly knit synthetics, blends, lightweight fabrics, set dial to 150° F (66° C).
Low Heat - Delicate, sheer fabrics, easy-to-dry, set dial to 135° F (58° C).
5. Thermometer - Use this with your temperature selection. Teach yourself what temperature is too hot or too cold. (See figure 3)
6. Turn switch to "start" position. (See figure 1)
 Close the dryer door, but the basket will not rotate until the PUSH-TO- START BUTTON is pressed. Press in the PUSH-TO-START BUTTON (approximately 2 seconds) until the dryer starts running and then release button. (See figure 1)
What is happening to the drying operation: a. The fan motor will operate.
b. The basket will rotate.
c. The heat source will be energized.d. The heated air mix with the water washed clothes to evaporate the
moisture from the garments.e. The thermostats will function to maintain a safe temperature through
out the drying cycle.f. The heat will be shut off and the motor will continue to run to cool the dry load to a desired handling temperature.
8. When the drying timer completes its time, then the cooling timer will be energized and the cooling light will be "On". When the cooling light will stay "On" and the "End-of-Cycle" light will be "On". The "End-of-Cycle" light will go off when the "Start/Stop" switch is turned to "Off" or "O". At the end of the cool-down cycle, the clothes load is dry.
(Continued on next page.)

OPERATING INSTRUCTIONS -TWO TIMER MODELS

9. To shut the dryer "Off", move the "Start/Stop" switch to "Off" or "O" position. This switch is a safety switch to immediately stop the dryer's operation.

Special Reversing Feature - Set the "Reversing/Non-Reversing" switch to "Reversing". See service manual for setting of time of each reversal. Reversing of the basket is designed for loads that twist (example - bed sheets and large mixed loads). "Non-Reversing" is for small or medium-size items that don't twist.

Service Savers		
TROUBLESHOOTING	To help you troubleshoot the dryer, we list below 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? Is there time on both timers? Did you push the "push to start" button? Has a fuse blown or a circuit breaker tripped? Are the fuses tight? Check for low voltage. 	
DRYER WON'T HEAT	 DRYER WON'T HEAT Is the dryer set for "cooling time" rather than "drying time"? Are the gas valve in the dryer and the gas shut off valve on the main gas line turned on? Check for low or intermittant gas pressure. 	
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.) (For Moisture Control models) Was the moisture level setting incorrect? (Too high?) 	
GAS DRYER IGNITION	GAS DRYER IGNITION Refer to the page on "Direct Spark Ignition Operation". 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. The ignition module ground wire must be securely grounded to the machine (both sides on gas unit).	

VERY IMPORTANT When calling the factory for service, always refer to the model number and serial number.

TROUBLE	CAUSE	REMEDY
Basket motor runs, but	V-Belt broken	Replace V-Belt.
basket will not revolve.	V-Beltloose	Adjust belt tension.
	Motor Pulley loose	Tighten set screw.
	Basket overloaded	Remove load.
	Not leveled	Refer to Installation Manual for proper leveling
Dryer noisy or vibrating.		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.
	Incorrect voltage	Check for correct control voltage - 24V.
	No voltage	Check power supply, check secondary voltage on
		transformer and check wiring and wiring diagram.
	Spark igniter not sparking	May be broken or defective high voltage lead. Module
Dryer runs but no heat.		not receiving correct input to ignite. Refer to Direct
NOTE: This dryer has		Spark Ignition section. Make sure ignition module
two ignition systems,		ground wire is securely grounded to the machine (both
valves, etc. Be sure to		sides).
check both systems.	Defective gas valve	Check continuity across unplugged valve. If defective,
		replace coil assembly.
	Gas turned off	Turn manual gas valve "ON".

TROUBLE	CAUSE	REMEDY
Dryer runs, but no heat	Line fuse or heater circuit fuse	Replace fuse.
(continued).	blown to unit	
	Defective door switch	Check continuity across contacts, opened & closed. If
		defective, 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. Refer to Installation Manual to ensure duct work and make-up air openings are properly 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, or less, for normal operation of dryer, vacuum reading (in inches of water column) should range between .15 and .3 inches. Vacuum reading can be made with a vacuum U-gauge by removing a sheet metal screw in the back panel or right panel at front bottom corner and inserting the rubber tube of the vacuum gauge into screw opening.
	Air switch out of adjustment	Refer to Air Switch Adjustment section.
	Air switch defective	Check continuity across contacts, opened and closed.
		If defective, replace switch with power off. Check
		manifold pressure and adjust to pressure specified on
	Gas pressure too low	rating plate. If this pressure cannot be obtained, have gas supplier check main pressure.
	Improper orifice	Dryer is orificed for type of gas specified on rating plate. Check with gas supplier to determine specifica- tions for gas being used. If different from rating plate, contact factory to obtain proper orifices.
	Electric power to heating unit turned off	Turn power on.

TROUBLE	CAUSE	REMEDY
Dryer runs, but no heat	Defective thermostat	Check continuity across thermostat. Limiting or
(continued).		safety thermostats are normally closed. If open,
		replace thermostat.
	Defective safety overload thermo-	See above.
	stat	
	Lint compartment drawer open	Close drawer.
Main burners	Dirt in burner	Blow out.
burning improperly.	Gas pressure too high	Check rating plate for correct gas pressure.
	Orifice too large	Send to factory for correct orifices.
	Restricted or blocked exhaust	Clean exhaust.
	Incorrect or poor gas mixture	Check with gas supplier for correct specifications of gas used; must match rating plate.
Low gas flame or high gas flame.	Incorrect main burner orifices	Replace orifices check factory for correct size.
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.
	Exhaust duct dampers	Must be full open when dryer is in operation or replace.
	Gas pressure too high	Adjust gas pressure as specified on rating plate.
	Partially restricted or	Refer to Installation Manual for exhaust system
	inadequately sized exhaust system	requirements. Check for and remove obstructions or
		lint build-up from duct work. Never use smaller size
		exhaust duct. Always use larger size
		exhaust duct.
	Defective thermostat	When flame or heat is passed over, thermostat circuit
		should open. Audible click will usually be heard. If
		continuity remains, thermostat is defective. Replace
		thermostat.

TROUBLE	CAUSE	REMEDY
Motor will not start.	Nopower	Check fuses on circuit breakers. Make sure main
		control switch is ON.
	Incorrect power	Check power source: voltage, phase, and frequency
		must be the same as specified on electrical rating
		plate.
	Time off	Turn timer clockwise to desired time setting.
	Loose wiring connections	Check wire connections in electrical box on rear of
		dryer.
	Defective starting relay	Check coils and contacts.
Motor tripping on	Low voltage	Check voltage at motor teminals. Voltage must be
thermal overload.		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	Refer to Installation Manual for recommended make-
		up air openings.
	Poor housekeeping	Clean lint accumulation on and around motors.
		Motors should not be covered with or filled with
		lint.
Basket motor will not	Loading door open	Close door.
run.	Door switch out of adjustment	Adjust switch by removing cover and bend actuator
		lever to clear switch button 3/8" with cover in
		place.
	Defective door switch	Check continuity across switch with power off, in
		closed and open switch. If no continuity, replace
		switch.
	Defective basket motor contactor	Push in contactor trip button. If motor starts, check
		voltage going to pull-in solenoid. If present,
		replace contactor. If not, problem is before motor
		contactor.
Basket will not reverse.	Reversing timer	Confirm timer is working.

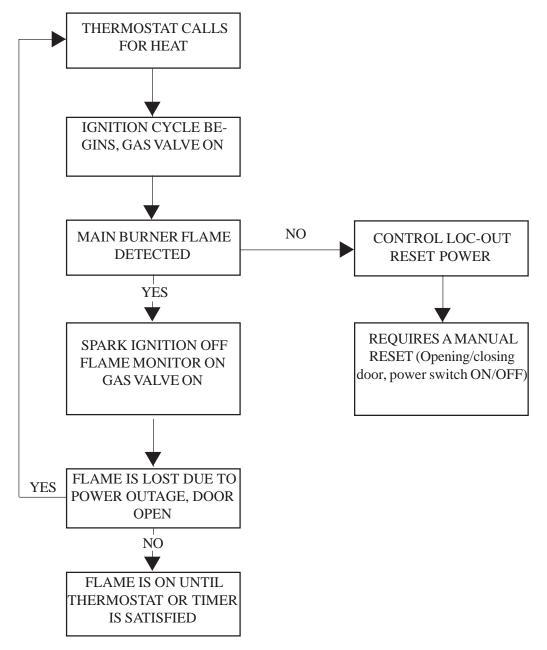
TROUBLE	CAUSE	REMEDY
Dryer does not stop at	Defective timer	Replace timer.
end of time period (6).		
Dryer runs no steam to	Valve closed	Check all valves in steam supply and return, make
coils.		sure they are open.
	Steam trap blocked	Remove and clean. Replace if defective.
	Solenoid valve	On dryers using solenoid temperature control, check
		operation of solenoid valve by advancing thermo-
		stat.
	Thermostat	On dryers using solenoid temperature control,
		thermostat controls operation of solenoid valve. If
		defective, replace thermostat.
	Check valve installed	Check for inlet and outlet marking on check valve,
	incorrectly	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	Refer to Installation Manual for proper steam pipe
	incorrectly	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.
		Check voltage to damper motors.
No heat to drum	Dampers not operating	Adjust dampers to close when calling for heat.
	correctly	
		•

DIRECT SPARK IGNITION OPERATION	NOTE: 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.			
	1. When a call for heat is received from the control supplying 24VAC to the ignition control module, the pre-purge delay timer begins. This delay time allows any air/sediment to be ejected prior to burner ignition. Following the pre-purge delay period, the gas valve is energized and the spark ignitor sparks for the trial for ignition period.			
	2. When a flame is detected during the trial for ignition period, the spark ignitor shuts off and the gas valve remains energized.			
	3. If no flame is detected by the flame sense circuit, the ignition control module will go into safety lockout. The valve will be turned off immediately. If the module has multiple retries and no flame is detected, the gas valve is de-energized and the module goes into an interpurge delay. After this delay, the module will attempt another trial for ignition period. This will continue until the number of retries has been used up. At that time, the module will go into safety lockout.			
	 4. Recovery from safety lockout requires one of the following: a. A manual reset by opening and closing the loading door. b. After one hour if the control thermostat is still calling for heat, the module will automatically reset and the trial for ignition period will start over. The push-to-start button must be pushed to start the process going again. 			
	 Opening the loading door will cause the flame to extinguish. Closing the door and starting the dryer will restart the trial for ignition period. 			
	 Once the control thermostat has been satisfied and/or the drying timer has been timed out, the ignition control module(s) will be de-energized, the gas valve(s) will be de- energized and the flames will extinguish. 			
	7. The machine will continue to run in a cooldown mode without heat. This process will cool the load to the touch and help to eliminate wrinkling.			

DIRECT SPARK IGNITION OPERATION FLOW CHART

The DSI module is powered by a 24 volts AC suppled by a step-down transformer in series with eight safety interlocks:

- A. Timer switching device (1)
- B. Main door and lint door switches (2)
- C. Sail switch (1)
- D. Under basket and burner housing thermal safety switches (2)
- E. Variable thermostat (1)
- F. Push to start switch (1)



DAILY	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 more quickly.				
	DRYERAREA. Keep dryer area clean and free from combustible materials, gasoline and other flammable vapors and liquids.				
	SLIDING DOORS. Check track for foreign objects.				
<u>WEEKLY</u>	UNITS HEATED BY STEAM. Keep steam coils clean. Check periodically and clean often, as required. Remove lint and dirt build-up from fins. Dirty fins decrease the efficiency of units heated by steam.				
	GAS BURNERS. Keep burners clean. Check periodically and clean often.				
	AIR PRESSURE. Check airlines for water. Check/service any air regulator/filter per manufactures information. May need to do this check more often, depending on air quality.				
<u>MONTHLY</u>	FIRE DECTECTIONAND SUPPRESSION SYSTEM (FDS). Check FDS to make sure the system is working properly. Refer to FDS manuals for details.				
<u>THREE</u> <u>MONTHS</u>	CLEAN BASKET AND SWEEP SHEETS. Clean periodically and/or as often as required. The basket and sweep sheets are easily accessible by removing the front panel of the dryer.				
	EXHAUST SYSTEM. Check and clean.				
	GEAR MOTORS. Check oil level. See separate information on gear motor for maintenance				
	GEAR REDUCER. Maintain the correct oil level. See separate page on gear reducer operation and maintenance, for detailed information.				
<u>SIX</u> <u>MONTHS</u>	PULLEYS AND BELTS. Keep belts clean. Oil and dirt will shorten the useful life of the belt. Never allow a belt to run against the belt guard. Check periodically for alignment. Pulley shafts must be parallel and the grooves must be aligned. Check and re-tighten pulley set screws periodically. Check belt tension periodically. Lower motor to increase tension by adjusting the nuts fastening the motor plate to the rod connected to the gear reducer.				
	MAKE-UPAIR. Do not obstruct the flow of combustion (make-up) air and ventilating air. Check ducting for obstructions.				
	GAS PRESSURE. Check gas pressure.				
	DRYER VOLTAGE. Check dryer voltage per dryer Rating Plate.				
	AIR SWITCH. Check air switch alignment. Some models do not have air switches.				
<u>YEARLY</u>	ELECTRIC MOTORS. Keep motors clean and dry.				
	LOADING DOOR GASKET. Check for tears, rips, gashes, etc. Replace if damaged.				

BASKET ALIGNMENT

Jacket Rear View

BASKET TOO LOW

If there are shims under Bearing B;

- 1. Loosen bolts
- 2. Remove shim(s).
- 3. Tighten bolts check alignment.

If there are no shims under B;

- 1. Loosen bolts on bearing A.
- 2. Add shim(s) under bearing A.
- 3. Tighten bolts check alignment
- 4. Repeat until aligned.

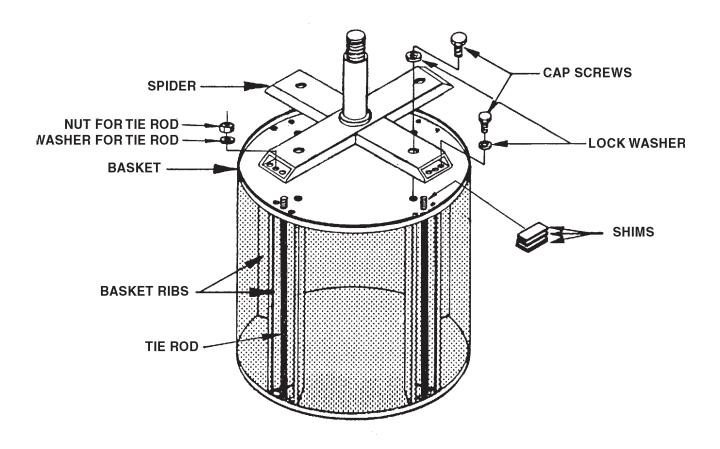
BASKET TOO HIGH

If there are shims under A;

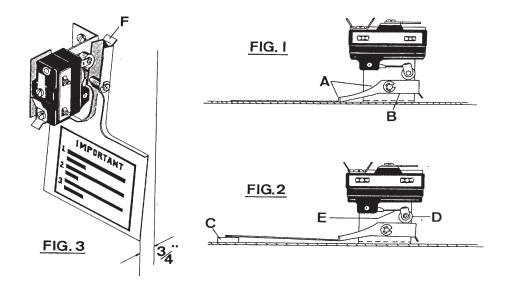
- 1. Loosen bolts
- 2. Remove shim(s).
- 3. Tighten bolts check alignment.

If there are no shims under A;

- 1. Loosen bolts on bearing B.
- 2. Add shim(s) under bearing B.
- 3. Tighten bolts check alignment
- 4. Repeat until aligned
- Page 22



INSTRUCTIONS FOR SHIMMING THE BASKET AND SPIDER ASSEMBLY	This procedure is normally necessary when replacing either the basket or the spider assembly on any dryer. The alignment of these two parts is crucial in assuring a true running basket.
	A. Align the basket as per instructions on the previous page.
	B. Rotate the basket to determine where the most out-of-round point is (where the basket scrapes or comes closest to scraping the sweep sheet).
	C. Mark this position and the nearest rib to this position. If it is between two ribs, both ribs may need to be shimmed.
	D. Remove the basket from the dryer (do not loosen the alignment bolts).
	E. With the basket on the floor (spider up), loosen the cap screws and tie rod nuts enough to insert one or two shims between the spider leg and the basket at the marked position. With shims in place, tighten the screws and nuts.
	F. Install spider and basket assembly and check again.
	G. If basket is still out-of-round, start at <i>Step B</i> and repeat procedure.
	H. When shimming is completed, re-align basket.



AIR SWITCH ADJUSTMENT

- 1. Shut off current; disconnect leads and remove air switch.
- 2. Lay air switch assembly on flat surface. Adjust air blade at "A" (figure 1) so that air blade lays flat and surface "B" is parallel to the flat surface.
- 3. Place 3/8" x 5/8" spacer bar or equivalent "C" (figure 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 3/4" (figure 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.

1 ulley and Deu Maintenance						
DRIVE PULLEYS AND BELTS	DRIVE PULLEYS AND BELTS					
	Before placing the dryer into operation, ensure that the drive belts and pulleys are in good condition and have sufficient belt tension.					
	Check belt tension after dryer is in operation 2-3 weeks. Tighten as necessary.					
	Check belt tensions and belt & pulley condition every 3-6 months.					

OVERLOAD HEATERS FOR OVERLOAD RELAYS	 Properly sized overload heaters provide motor protection for the dryer. Improper heater size may allow the motor to be damaged, or could cause nuisance tripping. Heater sizes are listed on the overload heater table on page 27. To use the table, refer to the motor rating plate and locate the full load amps (FLA), the service factor (SF), and the ambient temperature (Amb.).
	Example Motor Rating Plate show FLA = 3.8, SF = 1.15, and 60 Deg. C Amb. From the table, heater size is H-25. Order TU267900—H25. CAUTION
	Overload relays do not provide protection from short circuits. Short circuit protection is provided by a device such as a breaker or wall disconnect.

Heater Size	SF = 1.00		SF = 1.15 OR GREATER		
	40 Deg. C Amb.	60 Deg. C Amb. or more	40 Deg. C Amb.	60 Deg. C Amb. or more	
H-6	.6974	.5661	.6268	.5155	
H-7	.7583	.6268	.6974	.5661	
H-8	.8493	.6974	.7583	.6268	
H-9	.94 - 1.02	.7583	.8493	.6974	
H-10	1.03 - 1.16	.8493	.94 - 1.02	.7583	
H-11	1.17 - 1.31	.94 - 1.02	1.03 - 1.16	.8493	
H-12	1.32 - 1.45	1.03 - 1.16	1.17 - 1.31	.94 - 1.02	
H-13	1.46 - 1.63	1.17 - 1.31	1.32 - 1.45	1.03 - 1.16	
H-14	1.64 - 1.80	1.32 - 1.45	1.46 - 1.63	1.17 - 1.31	
H-15	1.81 - 1.96	1.46 - 1.63	1.64 - 1.80	1.32 - 1.45	
H-16	1.97 - 2.22	1.64 - 1.80	1.81 - 1.96	1.46 - 1.63	
H-17	2.23 - 2.43	1.81 - 1.96	1.97 - 2.22	1.64 - 1.80	
H-18	2.44 - 2.55	1.97 - 2.22	2.23 - 2.43	1.81 - 1.96	
H-19	2.56 - 2.81	2.23 - 2.43	2.44 - 2.55	1.97 - 2.22	
H-20	2.82 - 2.99	2.44 - 2.55	2.56 - 2.81	2.23 - 2.43	
H-21	3.00 - 3.43	2.56 - 2.81	2.82 - 2.99	2.44 - 2.55	
H-22	3.44 - 3.90	2.82 - 2.99	3.00 - 3.43	2.56 - 2.81	
H-23	3.91 - 4.28	3.00 - 3.43	3.44 - 3.90	2.82 - 2.99	
H-24	4.29 - 4.86	3.44 - 3.90	3.91 - 4.28	3.00 - 3.43	
H-25	4.87 - 5.45	3.91 - 4.28	4.29 - 4.86	3.44 - 3.90	
H-26	5.46 - 6.13	4.29 - 4.86	4.87 - 5.45	3.91 - 4.28	
H-27	6.14 - 6.79	4.87 - 5.45	5.46 - 6.13	4.29 - 4.86	
H-28	6.80 - 7.72	5.46 - 6.13	6.14 - 6.79	4.87 - 5.45	
H-29	7.73 - 8.48	6.14 - 6.79	6.80 - 7.72	5.46 - 6.13	
H-30	8.49 - 9.65	6.80 - 7.72	7.73 - 8.48	6.14 - 6.79	
H-31	9.66 - 10.70	7.73 - 8.48	8.49 - 9.65	6.80 - 7.72	
H-32	10.80 - 12.30	8.49 - 9.65	9.66 - 10.70	7.73 - 8.48	
H-33	12.40 - 13.00	9.66 - 10.70	10.80 - 12.30	8.49 - 9.65	
H-34	13.10 - 14.00	10.80 - 12.30	12.40 - 13.00	9.66 - 10.70	

OVERLOAD HEATER TABLE Motor Full Load Amps (FLA)