

**TI 1105 – TD3030 Preventive Maintenance****DISCONNECT ELECTRICAL POWER BEFORE SERVICING EQUIPMENT!!**

In order to maintain peak operating efficiency, and protect moving parts from premature failure, TD3030 dryers require periodic inspection and preventive maintenance. The following is a suggested inspection and preventive maintenance schedule. The frequency of inspection and cleaning depends upon usage, but experience will guide you in performing the inspections and cleaning at the proper intervals. If your store is exceptionally busy, or if there are airflow restrictions (makeup air or exhaust ducts), you should perform these tasks more frequently.

**DAILY****LINT DRAWERS**

Clean accumulated lint from the lint drawer screens.

**WEEKLY****SECONDARY LINT SCREEN**

Remove the lint drawer and inspect the secondary lint screen. Clean as necessary. At the same time, inspect the lint drawer tracks and clean out any lint that has accumulated there.

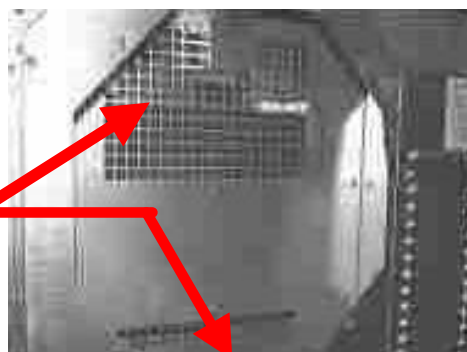
**MONTHLY****BURNER AIR-INTAKE GRILLES**

Remove the outer burner air-intake grille from the back of the burner compartment on both pockets. Use a vacuum or damp cloth to clean the accumulated dust and lint from the grilles.

Use a small vacuum tool to clean the space between the inner and outer burner grilles. Be sure that the lower inner grille openings inside this compartment are free of accumulated dust and lint. Lint accumulation on the lower inner grille may result in E14 (ignition failure) errors.



Remove Outer Grille



Clean Entire Space Between Grilles

## **MOTOR HOUSINGS AND LOUVERED BACK PANEL**

Clean the motor housings with a vacuum or damp cloth to remove accumulated lint and dust from the housing vent openings and from the openings in the louvered back panel over the control compartment. Blockage of the vent openings can result in E 05 (Blower Motor Overheat) and E 06 (Drum Motor Overheat) errors. If you remove the housings for cleaning, be sure to re-install them. The housings are essential to proper flow of air to cool the motors.

## **COIN METERS**

Lint accumulated in the optical switch of the coin meter can cause time to accumulate when no coin has been inserted, or no time to register when a coin is inserted. Open the control compartment and use compressed air to blow lint from the coin acceptor, paying particular attention to the optical switch (four wires entering a black plastic "u" shaped housing at the lower-rear of the acceptor. Use care when cleaning this area, since the coin acceptor is a precision instrument and it is easily damaged.

## **SEMI-ANNUALLY**

### **BLOWER WHEEL**

It is normal for some lint to accumulate on the blower-wheel fins over time. This lint will reduce the efficiency of the dryer, and may increase mechanical stress on the blower wheel and blower motor. Periodic inspection of the blower wheel can be done by removing the lint drawer and secondary lint screen, and using a flashlight to look into the blower at the right-rear corner of the lint-drawer compartment. If lint is visible in the wheel, remove the blower assembly from the machine (see service manual) and clean thoroughly. Be careful not to move any balancing clips that might be present on the blower wheel. These are important for quiet, reliable operation.

The first obvious sign of abnormal lint accumulation in the blower may be an increase in vibration that can be heard, and sometimes even felt by placing your hand on the front panel of the dryer. If unusual vibration is present, immediately place the pocket out of service until the blower wheel can be inspected and cleaned.

Do not rest the blower and motor assembly on the fan wheel. When dismounting the blower and motor assembly, do not remove the motor housing from the motor. Rest the blower and motor assembly on the rear flat surface of the motor housing so that the blower wheel is facing up.

Even if no vibration is present, the blower wheel should be removed and cleaned at least once every six months.

### **BACKDRAFT DAMPERS**

Each TD3030 dryer pocket is fitted with a backdraft damper (2 per machine) to prevent air leaving an operating tumbler from flowing backward through an idle one. The damper is located inside the blower housing (upper-left corner of the housing when viewed from the back of the dryer). Whenever the blower assembly is removed from a dryer, inspect the backdraft damper and airflow path above the damper, to insure that the damper moves freely and is free of accumulated lint. Hold the damper partially open and feel the top side to determine if there is a buildup of lint. If there is lint (or other debris) remove the exhaust plenum (see service manual) and clean the damper surfaces and pivots, and the plenum itself.

## DRUM SUPPORT ROLLERS

Remove the loading door and the front panel of each pocket (see service manual). Use a vacuum to remove the lint around the drum support rollers and in the compartments around the outer drum. Inspect the drum support rollers for wear. Replace as necessary.

## DRUM CENTER BEARING

**Note important information regarding ribbed lock-washer update detailed in this section!!**

A self-aligning bearing supports the rear of the TD3030 drum. On machines manufactured after January 2004, the bearing is secured to the drum using three nuts, with a ribbed lock washer under each nut. On earlier machines, only locknuts were used. It is recommended that the ribbed lock washers be added to these machines at the next convenient service opportunity (order one "Riplock" washer kit, (part number **487 193554**) for each dryer pocket (2 kits required per machine). Each kit contains 3 lock washers (sufficient to upgrade one pocket).

### Installing Riplock Washers

Remove the three screws that secure the bearing cover to the rear of the drum. Inspect the inside of the cover and the bearing for metal shavings or other signs of wear, and check the bearing for clearance by pushing upward on the top of the drum. A very small amount of clearance is normal. Check that the three locknuts that secure the bearing to the drum are tight, and that there is a ribbed lock washer installed on each stud (under the nut). If ribbed washers are not present, remove ONE nut from the bearing at a time, and install a lock washer on the threaded stud, then re-install and tighten the nut. Repeat the process for the other two nuts, removing only one at a time. Re-install the bearing cover.

## ANNUALLY

### CONTROL COMPARTMENT COVER

Remove the louvered cover from the rear control compartment of the dryer. Use a vacuum to remove the lint and dust from both sides of the cover and carefully clean accumulated lint and dirt from inside the control compartment. Reinstall the louvered cover.

### DRUM DRIVE BELTS

Remove the drum-drive transmission cover plate located below each burner compartment. Use a flashlight to inspect the condition of the transmission components and drive belts. Replace worn parts, as necessary (refer to TD3030 Service Manual). Re-install the cover plate.

### EXHAUST DUCTS

Remove the exhaust duct from the machine's outlet connection. Clean all exhaust ducts, and the machine's outlet plenum, as required. Refer to the TD3030 Service Manual for instructions on removing the dryer's exhaust plenum for cleaning.