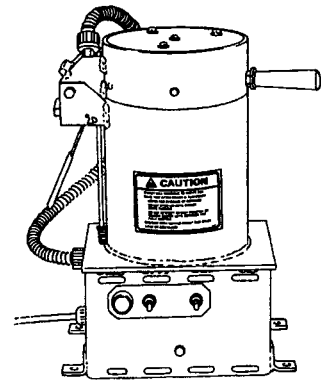


# Industrial Dryer K-11

Issue 3/96  
(Replaces All Previous Issues)



# OPERATOR'S MANUAL



**ALLIED**  
PLATING SUPPLIES, INC.  
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**NEW HOLLAND**

## TO THE OWNER:

This manual contains information concerning the installation, operation, adjustment, and maintenance of your Model K-11 industrial dryer. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the performance and long service built into this unit. Please have all operators read this manual carefully and keep it available for ready reference.

This dryer is intended to dry parts, by spinning with or without the use of an optional electric heater.

Your New Holland dealer will instruct you in the general operation of your unit. Your dealer's staff will be glad to answer any questions that may arise regarding the operation of your unit.

Your New Holland dealer has access to a complete line of genuine New Holland service parts. These parts are manufactured and carefully inspected in the same factories that built the units, to insure high quality and accurate fitting of any necessary replacement parts.



**CAUTION: THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER PERSONAL SAFETY IS INVOLVED. TAKE TIME TO READ AND FOLLOW THE INSTRUCTIONS. BE CAREFUL!**

**CAUTION: PICTURES IN THIS MANUAL MAY SHOW PROTECTIVE SHIELDING OPEN OR REMOVED TO BETTER ILLUSTRATE A PARTICULAR FEATURE OR ADJUSTMENT.**

**BE CERTAIN, HOWEVER, TO CLOSE OR REPLACE ALL SHIELDING BEFORE OPERATING THE MACHINE.**

## IMPROVEMENTS

New Holland North America, Inc. is continually striving to improve its products. We reserve the right to make improvements or changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

# WARRANTY

## NEW HOLLAND INDUSTRIAL DRYERS

New Holland North America, Inc. or New Holland Canada, Ltd. hereafter called the Company, warrants to the original purchaser of a new New Holland Industrial Dryer from an authorized New Holland Outlet that such equipment is, at the time of delivery to such purchaser, free from defects in material and workmanship and that such equipment will be warranted, if used and serviced in accordance with the recommendations in the Operator's Manual, for a period of one year.

This warranty does not cover normal maintenance and service costs, charges for service calls, and/or transporting equipment to a location where repairs are accomplished, depreciation or damage caused by normal wear.

No warranty shall apply to damage resulting from accident, misapplication, abuse, or failure to follow instructions for operation, maintenance, and storage.

No warranty whatsoever is made on any equipment or part(s) which has been rebuilt, modified, or altered without the consent or knowledge of the Company or if service, other than normal replacement of service items, is performed by someone other than an authorized New Holland Dealer.

**Except as set forth above, THE COMPANY SHALL HAVE NO OBLIGATION OR LIABILITY OF ANY KIND ON ACCOUNT OF ANY OF ITS EQUIPMENT, AND SHALL NOT BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES. THE COMPANY MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND SPECIFICALLY, THE COMPANY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS. SOME STATES OR PROVINCES DO NOT PERMIT LIMITATIONS OR EXCLUSIONS OF IMPLIED WARRANTIES OR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE LIMITATIONS OR EXCLUSIONS IN THIS WARRANTY MAY NOT APPLY.**

### **To the Owner**

New Holland North America, Inc. is continually striving to improve its products and, therefore, reserves the right to make improvements or changes when it becomes practical and possible to do so, without incurring any obligations to make changes or additions to the equipment sold previously.

# OWNER ASSISTANCE

We at New Holland and your New Holland dealer want you to be completely satisfied with your investment. Normally any problems with your equipment will be handled by your dealer's Service Department. Sometimes, however, misunderstanding can occur. If your problem has not been handled to your satisfaction, we suggest the following.

1. Contact the owner or General Manager of the dealership, explain the problem, and request assistance. When additional assistance is needed, your dealer has direct access to our main office.
2. If you cannot obtain satisfaction by doing this, contact the New Holland Industrial Dryer Department and provide them with:
  - Machine model and serial number
  - Dealership name and address
  - Machine purchase date and amount of use
  - Nature of problem

## **Industrial Dryer Department**

Mail Station 205  
New Holland North America, Inc.  
New Holland, PA 17557  
Telephone: (717) 355-1458  
Fax Number: (717) 355-1798

When contacting New Holland's Industrial Dryer Department, be aware that your problem will likely be resolved in the dealership using the dealer's facilities, equipment, and personnel. It is important that your initial contact be with the dealer.

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# PRECAUTIONARY STATEMENTS

## PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“CAUTION”, “WARNING”, and “DANGER”) followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.



**CAUTION: THE WORD “CAUTION” IS USED WHERE A SAFE BEHAVIORAL PRACTICE ACCORDING TO OPERATING AND MAINTENANCE INSTRUCTIONS AND COMMON SAFETY PRACTICES WILL PROTECT THE OPERATOR AND OTHERS FROM ACCIDENT INVOLVEMENT.**



**WARNING: THE WORD “WARNING” DENOTES A POTENTIAL OR HIDDEN HAZARD WHICH HAS A POTENTIAL FOR SERIOUS INJURY. IT IS USED TO WARN OPERATORS AND OTHERS TO EXERCISE EVERY APPROPRIATE MEANS TO AVOID A SURPRISE INVOLVEMENT WITH MACHINERY.**



**DANGER: THE WORD “DANGER” DENOTES A FORBIDDEN PRACTICE IN CONNECTION WITH A SERIOUS HAZARD.**

**FAILURE TO FOLLOW THE “CAUTION”, “WARNING”, AND “DANGER” INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.**

## MACHINE SAFETY

Additional precautionary statements (“ATTENTION” and “IMPORTANT”) are followed by specific instructions. These statements are intended for machine safety.

*ATTENTION: The word “ATTENTION” is used to warn the operator of potential machine damage if a certain procedure is not followed.*

*IMPORTANT: The word “IMPORTANT” is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.*



## **SAFETY INFORMATION**

**UNSAFE OPERATING PRACTICES AND IMPROPER USE OF THE DRYER ON THE PART OF THE OPERATOR CAN RESULT IN INJURIES OR DAMAGE TO THE DRYER. OBSERVE THE FOLLOWING SAFETY PRECAUTIONS AT ALL TIMES.**

- 1. GIVE COMPLETE AND UNDIVIDED ATTENTION TO THE JOB AT HAND.**
- 2. DRESS APPROPRIATELY - WEAR PROTECTIVE CLOTHING, GLOVES, ETC., WHEN JOBS WARRANT.**
- 3. WEAR SUITABLE EYE PROTECTION, GOGGLES, ETC.**
- 4. WEAR A SUITABLE HEARING PROTECTIVE DEVICE SUCH AS EARPLUGS IF YOU ARE EXPOSED TO NOISE WHICH YOU FEEL IS UNCOMFORTABLE.**
- 5. HAVE THE DRYER SECURELY MOUNTED BEFORE OPERATION**
- 6. FOLLOW LOCAL CODES FOR SAFETY REGULATIONS.**
- 7. UTILIZE EXPERIENCED AND KNOWLEDGEABLE ELECTRICIANS TO CONNECT THE DRYER TO THE POWER SUPPLY.**
- 8. FOLLOW THE LATEST NATIONAL ELECTRICAL CODES AS WELL AS THE APPLICABLE LOCAL CODES.**
- 9. USE OF UNDERWRITERS LABORATORIES APPROVED OR RECOGNIZED COMPONENTS IS HIGHLY RECOMMENDED.**
- 10. INSTALL A DRAIN ADEQUATE IN SIZE AND PROPERLY LOCATED TO CARRY AWAY FLUIDS BEING REJECTED BY THE DRYER.**
- 11. KEEP ALL MECHANICAL OR ELECTRICAL SAFETY DEVICES IN OPERATING CONDITION: DO NOT BYPASS ANY SAFETY DEVICES.**
- 12. AVOID MOVING DRIPPING PARTS OR BASKETS OVER THE ELECTRIC CONTROL AREA.**
- 13. DO NOT USE THE ELECTRICALLY-HEATED DRYER WHEN WORKING WITH FLAMMABLE MATERIALS.**
- 14. KEEP ALL SHIELDS IN PLACE.**
- 15. DISCONNECT THE POWER TO THE DRYER BEFORE SERVICING THE UNIT.**
- 16. ALWAYS USE PROPERLY-SIZED ELECTRICAL PROTECTION DEVICES.**

## SAFETY DECALS

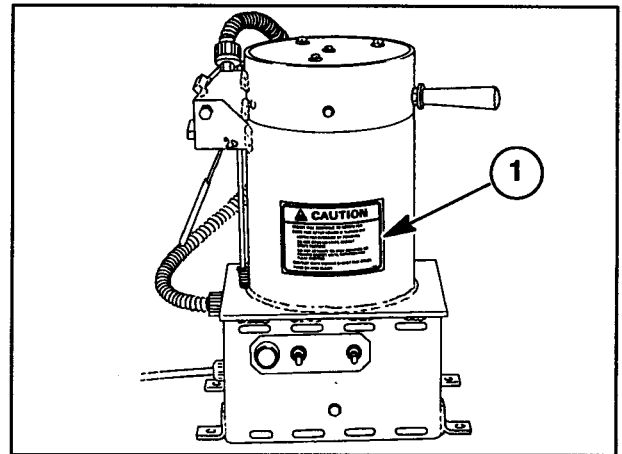
The following safety decals have been placed on your machine in the areas indicated. They are intended for your personal safety and for those working with you. Please take this manual and walk around your machine to note the content and location of these warning signs. Review these warning signs and the operating instructions detailed in this manual with your machine operators.

Keep the decals legible. If they are not, obtain replacements from your New Holland dealer.



1. **CAUTION: THE BASKET WILL CONTINUE TO ROTATE FOR SOME TIME AFTER THE POWER IS TURNED OFF.**
  - LISTEN FOR EVIDENCE OF ROTATION.
  - DO NOT OPEN THE LID UNTIL THE BASKET STOPS TURNING.
  - DO NOT ATTEMPT TO STOP ROTATION OR REMOVE THE BASKET UNTIL ROTATION HAS FULLY STOPPED.

**CONTACT WITH THE MOVING BASKET MAY CAUSE HAND OR ARM INJURY.**





# GENERAL INFORMATION

The Model K-11 industrial centrifugal dryer can thoroughly dry parts in basket loads weighing up to 7 lbs. (3.1 kg). The parts are air-dried in as little as 15 seconds by spinning them at 1,100 RPM. Heavy-duty 6" (152 mm) diameter baskets are used to handle the parts.

One person can easily operate the dryer with full efficiency and safety. You can expect years of clean, quiet-running operation from your centrifugal dryer with proper installation and regular maintenance.

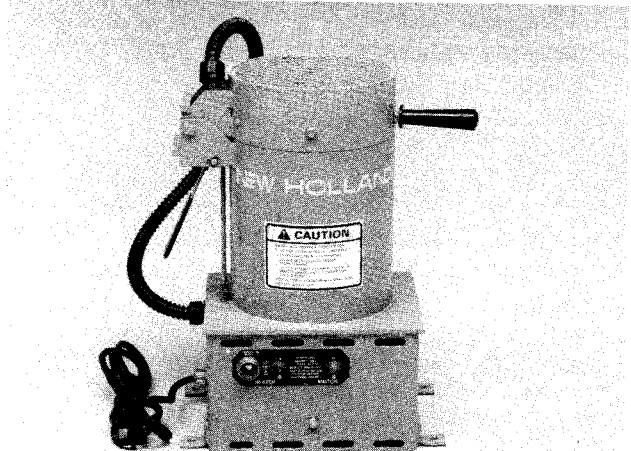


Figure 1

The dryer must be connected to a properly grounded 120 volt AC 60 CYCLE outlet with 10 AMP protection. **DO NOT REMOVE GROUND TERMINAL.**

The dryer is equipped with an electric safety switch that will prevent motor starting if the lid is raised to the open position.

The dryer can be equipped with an optional factory installed 600 watt electrical heating element in the lid to assist in the drying of parts.

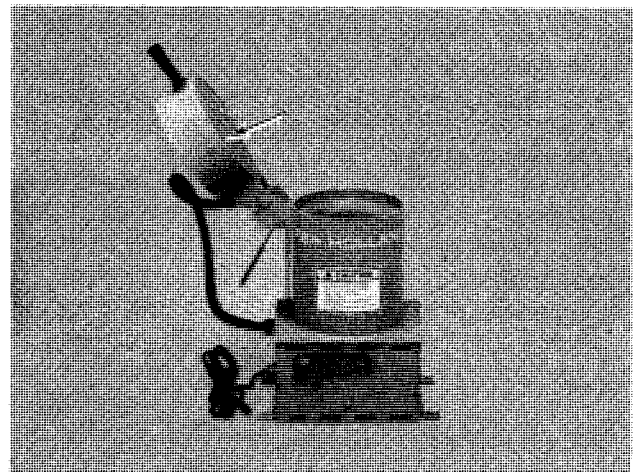


Figure 2



**WARNING: DO NOT USE AN ELECTRICALLY-HEATED DRYER ON LACQUERED PARTS OR FLAMMABLE MATERIAL! AN EXPLOSION OR FIRE COULD RESULT.**

The dryer is equipped with an elbow (1-1/4" pipe thread) and drain point to connect a drain to carry away liquids removed from the parts being dried.

The dryer baskets are 6" x 6" capable of handling loads of up to 7 LBS. The baskets vary from Poly (1/8" hole size), Stainless Steel (1/16" hole size), Carbon Steel (1/16" hole size, Poly-molded frame basket available with a #40 mesh stainless steel liner (0.015" opening size).

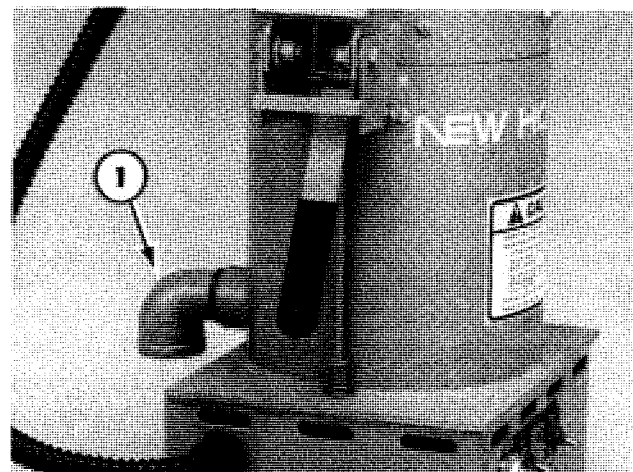


Figure 3

## INSTALLATION

The Model K-11 dryer is a table unit and should be securely mounted. The table must have a level top and be of adequate size to safely support the 79 lb. (35.8 kg) dryer with an additional 7 lb. (3.1 kg) load.

Overall operating efficiency is improved by selecting a good location for the dryer. The dryer location and orientation relative to the production line will ease loading and unloading operations.

Position the dryer to avoid splashing or dripping fluids on dryer electrical components when installing loaded baskets to be dried.



Figure 4

## Dryer Dimensions

Overall height(lid closed)	19-1/2" (494mm)
Overall height(lid open)	31-1/4" (793.75mm)
Work height	16-1/8" (408mm)
Table space required	9-3/8" x 14"
	(237mm x 354mm)

Mounting pad spacing	
1 -	12-3/4" (323.85mm)
2 -	7-1/4" (184.15mm)

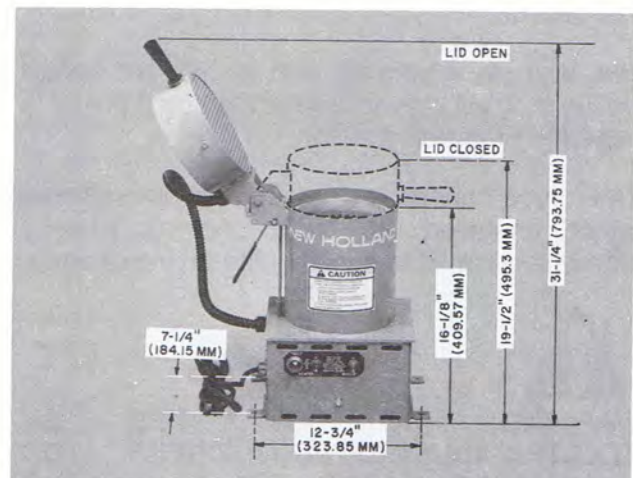


Figure 5

Bolt the dryer to the level table through the four mounting pads at 1. Add shims under the mounting pads if the table top is not level.

**IMPORTANT:** For proper dryer operation the dryer must be level. If the dryer is not level it may cause excessive vibration during dryer operation.



Figure 6

The dryer must be connected to a properly grounded 120 volt AC 60 CYCLE outlet with 10 AMP protection. DO NOT REMOVE GROUND TERMINAL.



**WARNING: SAFE AND PROPER INSTALLATION OF THE ELECTRICAL EQUIPMENT IS CRITICAL TO THE SAFETY OF THE USER. BE SURE THE DRYER IS CONNECTED TO A PROPERLY GROUNDED 120 VOLT AC 60 CYCLE 10 AMP OUTLET. DO NOT REMOVE GROUND TERMINAL.**

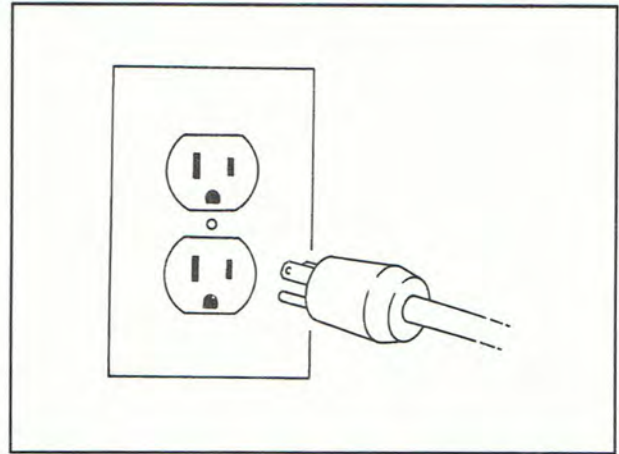


Figure 7

Plan a drain to carry the fluids from the dryer during operation. The drain connection is shown at 1, with a fitting size of 1-1/4" pipe thread



**CAUTION: PLAN A DRAIN INSTALLATION, ADEQUATE IN SIZE AND PROPERLY LOCATED, WHICH WILL CARRY AWAY FLUIDS BEING DISCHARGED FROM THE DRYER. SLIPPERY FLOORS AND INCREASED SHOCK HAZARD RESULT IF OPERATORS MUST WADE OVER WET FLOORS.**

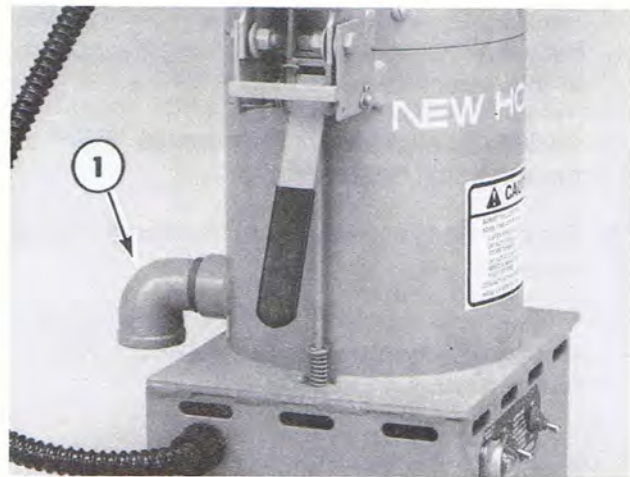


Figure 8

# OPERATION

## CONTROLS

All operating controls are placed on the front of the dryer. Figure 9, Figure 10, and Figure 11 show the location of the various switches and controls with their functions explained below.

### 1. Motor Switch

Switch, 1, turns the power "ON" to rotate the spinner and basket.

Switch, 1, also turns the power "OFF" to the motor.

### 2. Heater Switch (optional factory installed)

Switch, 2, turns the power "ON" to the 600-watt electrical heating element mounted in the dryer lid.

Switch, 2, also turns of the power "OFF" to the electrical heater.

### 3. Electric Heat Indicator Light (optional factory installed)

The indicator light, 3, will be on when the electrical heating element is turned "ON" and being used.

### 4. Spinner Cover

After fully depressing handle, 1, the lid assembly, 2, can be rotated over center in the "UP" open position for basket removal.



**WARNING: A SAFETY CONTROL CIRCUIT PREVENTS DRYER OPERATION WITH THE LID OPEN. THIS CIRCUIT WAS DESIGNED WITH THE SAFETY OF THE USER IN MIND. UNDER NO CIRCUMSTANCES SHOULD ANY MECHANICAL OR ELECTRICAL DEVICE BE ADDED, ELIMINATED, OR MODIFIED TO CIRCUMVENT OR DEFEAT THE PURPOSE OF THIS SAFETY CIRCUIT.**



Figure 9



Figure 10

The safety switch is located at the bottom of rod, 1, at 2, and is controlled by rod, 1. When the latch handle is depressed and the lid is opened the rod, 1, will contact switch, 2, turning "OFF" the power to the motor.

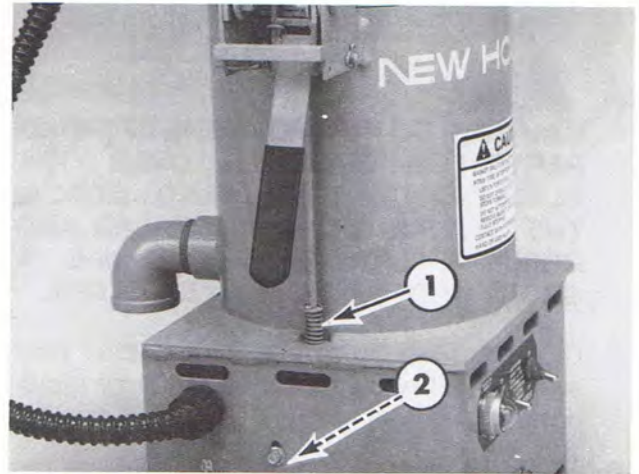


Figure 11

### OPERATING THE DRYER

When a basket of parts is ready for drying:

1. Turn "OFF" the dryer motor switch, 1. Listen for the spinner to completely stop rotating before opening the lid.

Push handle, 2, to unlatch the lid.

2. Open lid, 3, completely over center.
3. Rotate the basket handle up and remove basket, 4.

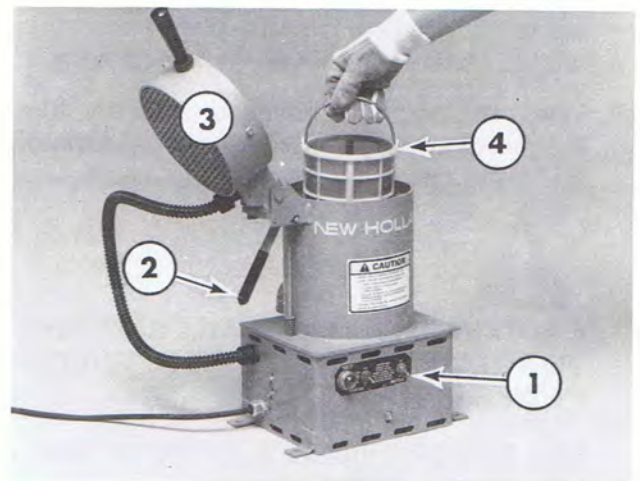


Figure 12

4. Fill the basket outside of the dryer. Insert the filled basket in the dryer as shown, 1.

**ATTENTION:** Do not fill the basket in the dryer as parts may spill between the spinner and dryer housing, causing motor drag and burnout.

**IMPORTANT:** Check the parts in the basket for even distribution which will result in a balanced basket and less machine vibration.

Do not overfill basket, 1.



Figure 13



**CAUTION: DO NOT MOVE THE DRIPPING PARTS OR BASKETS OVER THE ELECTRIC CONTROLS AND MOTOR. THE DRYER IS NOT FLUID SEALED, AND DRIPPING LIQUIDS MAY CAUSE A SHORT IN THE ELECTRICAL SYSTEM.**

5. Close the lid. Turn "ON" the electric heat switch, 1, if equipped or desired, for faster parts drying.
6. To start the rotation of the spinner, turn the motor switch, 2, "ON".
7. Spin the parts for a brief interval. Experience will teach you how long the drying operation should continue to obtain well-dried parts.
8. When the parts are believed to be dry, turn the motor switch, 2, "OFF" to stop the motor and bring the rotating spinner to a halt.



**CAUTION: THE BASKET WILL CONTINUE TO ROTATE FOR SOME TIME AFTER THE POWER IS TURNED OFF.**

**LISTEN FOR EVIDENCE OF ROTATION.**

**DO NOT OPEN THE LID UNTIL THE BASKET STOPS TURNING.**

**DO NOT ATTEMPT TO STOP ROTATION OR REMOVE THE BASKET UNTIL ROTATION HAS FULLY STOPPED.**

**CONTACT WITH THE MOVING BASKET MAY CAUSE HAND OR ARM INJURY.**

9. Open the lid and remove the basket. Inspect the parts. If they are not completely dry, repeat this procedure.

**IMPORTANT:** *If the dryer is equipped with electrical heating element and the dryer is not to be reused immediately, turn "OFF" the heater switch.*



Figure 14



Figure 15

## OPERATING THE DRYER WITH THE ELECTRIC HEATING UNIT

Operating the dryer with an electric heating unit is basically the same as operating the dryer without heat, except that a faster drying time results.

The lid-mounted heating element is shown at 1, with the lower lid screen removed for clarity.



Figure 16

To conserve energy, turn "OFF" the electrical power at the heater switch between loads, unless the next load is ready for drying. The heat element can operate continuously, but it is an expensive practice if the drying operation is intermittent.



**WARNING: DO NOT USE AN ELECTRICALLY-HEATED DRYER ON LACQUERED PARTS OR FLAMMABLE MATERIAL! AN EXPLOSION OR FIRE COULD RESULT.**



Figure 17

## DRYER CAPACITY

The Model K-11 dryer is designed to handle 7 lbs. (3.1 kg).

Volume, not weight, is often the limitation of capacity, depending on the parts being dried. Baskets should not be filled to the point where the parts will centrifugally climb the basket wall during spinning and be thrown out of the basket.



Figure 18

## ATTENTION DO NOT OVERLOAD DRYER:

1. Do not overload! Overloading is not economical and only abuses the equipment. For best results, distribute weight uniformly in the basket.
2. Do not modify the spinner basket received from New Holland North America, Inc., as the basket is balanced to reduce machine vibration. Adding a lid or other devices will result in an unbalanced spinner that can cause machine vibration and eventual machine damage.



Figure 19



# MAINTENANCE



**WARNING: DO NOT ATTEMPT TO MAKE ADJUSTMENTS OR REPAIRS WITHOUT FIRST MAKING SURE THE DRYER IS UNPLUGGED FROM THE ELECTRICAL SOURCE.**

**HAVE A QUALIFIED ELECTRICIAN DETERMINE AND CORRECT ANY SUSPECTED ELECTRICAL MALFUNCTION. ORDER REPLACEMENT COMPONENTS FROM NEW HOLLAND NORTH AMERICA, INC. TO INSURE PROCUREMENT OF RELIABLE COMPONENTS.**

**THE DRIVE COMPONENTS WILL CONTINUE TO ROTATE AFTER THE POWER IS TURNED OFF. LOOK AND LISTEN TO DETERMINE THAT ALL MOTION HAS STOPPED BEFORE REMOVING THE PROTECTIVE SHIELDS. REPLACE ALL SHIELDS BEFORE RESTARTING.**

## **ELECTRIC SAFETY SWITCH ADJUSTMENT**

The safety switch must be on when the lid is closed and off as the lid is being raised. The safety switch should not allow the motor to start if the lid is raised more than 1" (25.6 mm) on the handle side.

To adjust the safety switch, SLIGHTLY loosen the round head screws, 1, and move the switch up or down in the slots as required. Tighten the screws securely after making the adjustment.

## **LUBRICATION**

The spinner bearings and motor bearings are sealed and require no lubrication.

## **ELECTRICAL INSPECTION**

Occasionally inspect all wiring and components for wear or deterioration. Have a competent electrician replace any badly worn parts with materials of the same quality as was originally supplied. Use of U.L. approved or recognized components is a must.



Figure 20

**ELECTRIC MOTOR AND SPINNER  
 REMOVAL**

**MOTOR REMOVAL**

To remove the electric motor first remove the dryer base mounting hardware from the mounting pads, 1, and lay the dryer on its side as shown.



**WARNING: DO NOT ATTEMPT TO MAKE ADJUSTMENTS OR REPAIRS WITHOUT FIRST MAKING SURE THE DRYER IS UNPLUGGED FROM THE ELECTRICAL SOURCE.**

Remove the motor base support plate hardware, 2. This will allow the motor and base plate to be removed from the housing as an assembly. The motor shaft will slide free from the spinner shaft.

**NOTE: There is no retainer between the motor shaft and the spinner shaft.**

Remove the motor mounting hardware, 1, to separate the motor from the base plate.

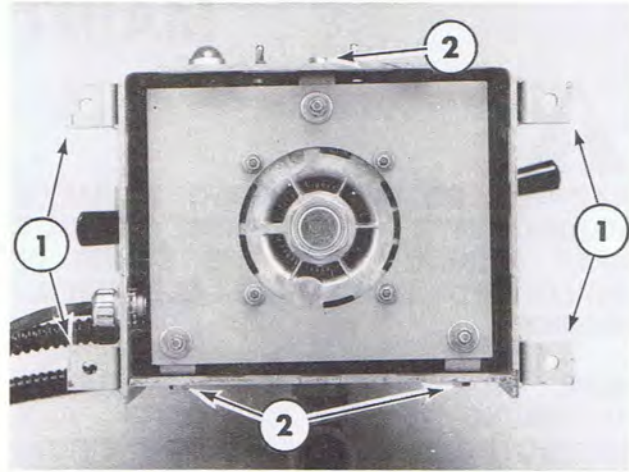


Figure 21

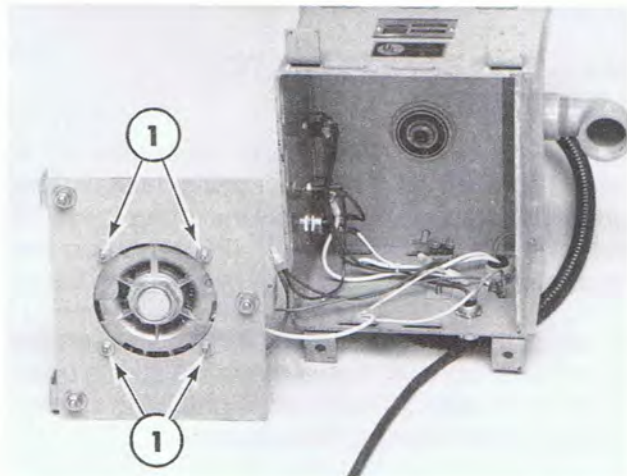


Figure 22

### SPINNER BEARING REMOVAL

With the motor and base plate removed from the dryer frame, the retaining ring, 1, and shaft/spinner assembly, 2, can be removed. Remove the retaining ring, 1. The spinner and shaft assembly can be removed from the housing by driving on the spinner shaft at 2, with a suitable hammer and driver.

The lower bearing can be removed from the housing at this time.

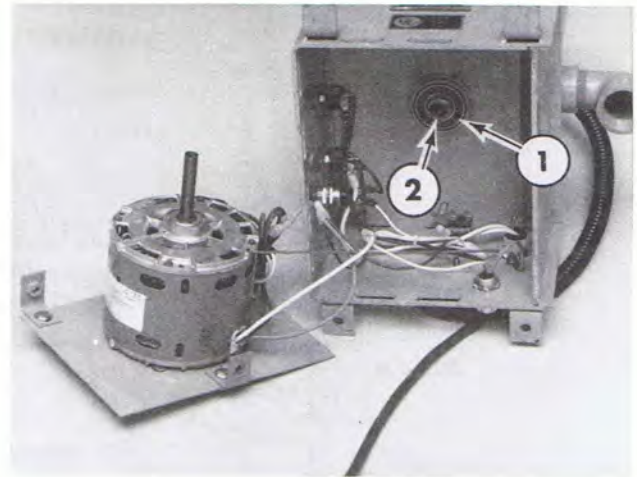


Figure 23

The upper bearing, 2, and spacer washer, 1, can be removed from the spinner assembly, 3.

To install new bearings first clean the spinner shaft and housing, remove any dirt or trash and burrs.

Install a spacer washer, 1, and new bearing, 2, on the spinner shaft, 3, use a suitable bearing driver and slide the bearing onto the shaft until it is fully seated.

**NOTE: The spacer washer must be installed to obtain the proper clearance between the spinner assembly and the bottom of the dryer housing.**

To install the lower bearing into the housing use a suitable bearing driver and fully seat the bearing into the housing.

**IMPORTANT:** *If the bearings are not properly seated, the spinner will become loose in the housing causing unit vibration and result in a bearing and/or spinner shaft failure.*

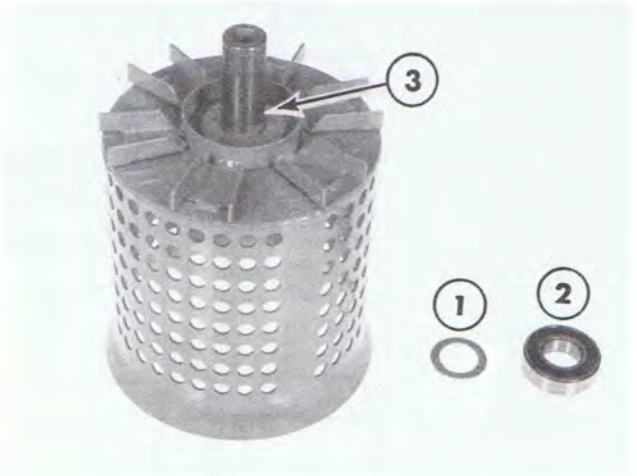
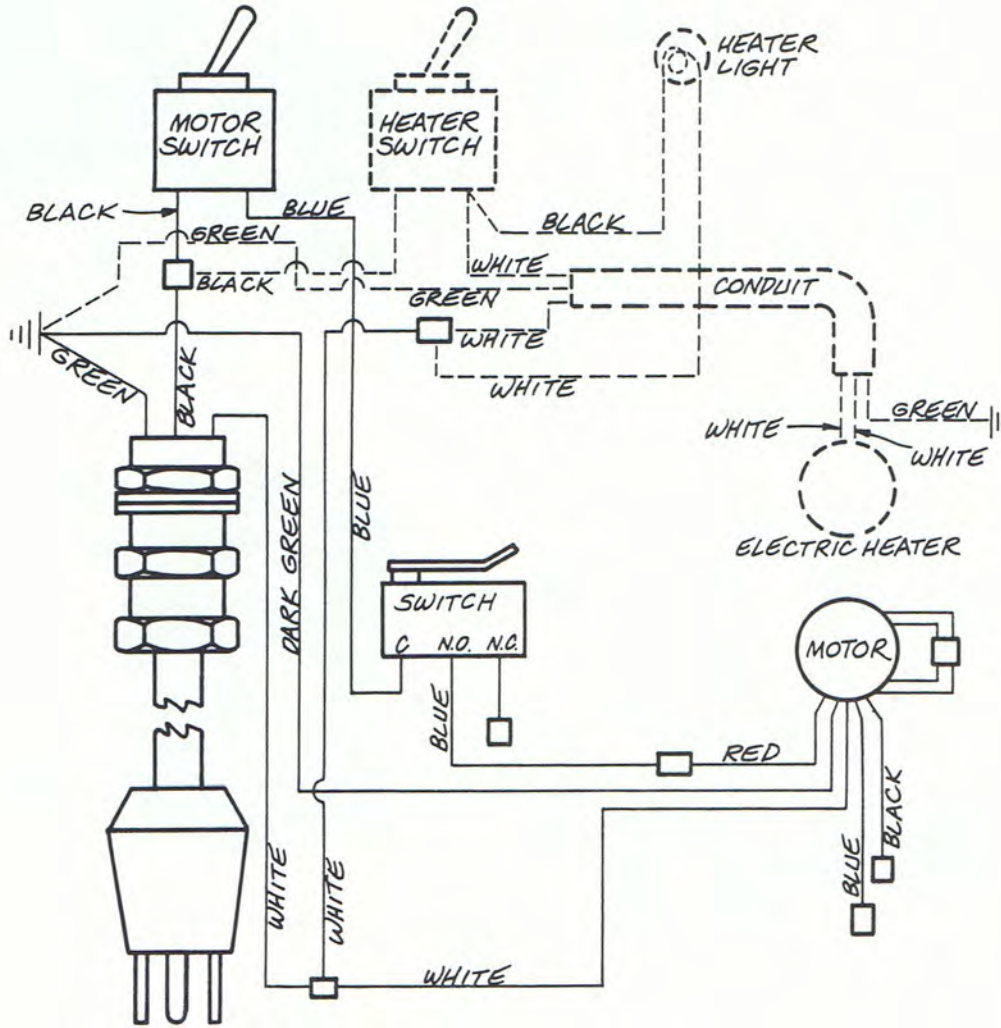


Figure 24

### WIRING DIAGRAM



K-11 DRYER WIRING DIAGRAM

----- OPTIONAL

Figure 25

# SPECIFICATIONS

Overall height .....	19-1/2" (494 mm)
Work height .....	16-1/8" (408 mm)
Table space required .....	9-3/8" x 14" (237 mm x 354 mm)
Operating speed .....	1,100 RPM
Motor size .....	1/8 HP (0.09 kw)
Basket size .....	6" x 6" (152 mm x 152 mm)
Capacity .....	7 lbs. (3.17 kg)
Bearings .....	2 sealed ball bearings
Drive .....	Direct coupled
Electrical system .....	120 volts AC
Meets N.E.C. specifications .....	Yes
Heating unit .....	600 Watt electric

## OPTIONAL BASKETS

<b>Description</b>	<b>New Holland Part No.</b>
Poly Basket 6" x 6" (1/8" hole size) .....	802718
Stainless Steel Basket 6" x 6" (1/16" hole size) .....	802719
Carbon Steel Basket 6" x 6" (1/16" hole size) .....	802720
#40 Mesh basket with #316 stainless steel liner and molded poly frame (0.015 opening size) .....	803042

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