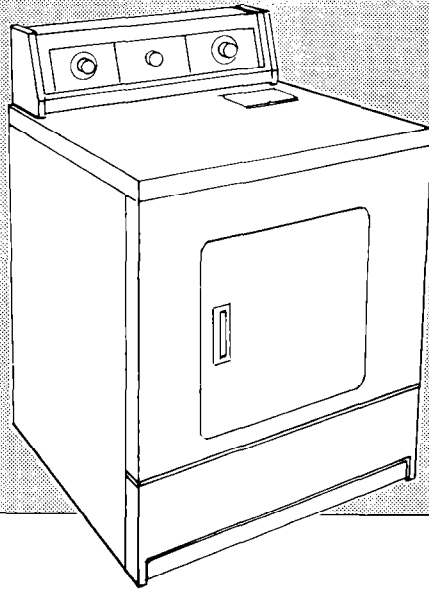


Installation Instructions



Part No. 3393135 Rev. A

IMPORTANT

Installer: Leave Installation Instructions with the homeowner.

Homeowner: Keep Installation Instructions for future reference.

Save Installation Instructions for local inspector's use.

Gas Dryer

Estate
APPLIANCES

Before you start...

⚠ WARNING

Fire Hazard

- Never install dryer up against draperies or curtains or on carpet.
- Keep any and all items from falling or collecting behind the dryer.
- Replace all access panels before operating dryer.

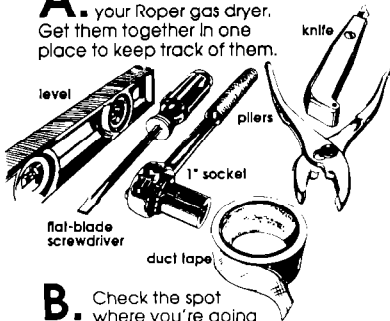
Failure to follow these instructions could result in a fire or explosion.

- If you smell gas:
 1. Open windows.
 2. Don't touch electrical switches.
 3. Extinguish any open flame.
 4. Immediately call your gas supplier.

• Do Not store or use gasoline, paint, thinners and other flammable materials near washer/dryer. Fumes from such materials could result in fire or explosion.

Mark an X across the letter or number as you complete each step.

A. You need these tools to install your Roper gas dryer. Get them together in one place to keep track of them.



B. Check the spot where you're going to install the dryer...proper installation is your responsibility.

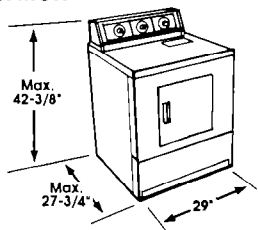
C. Make sure you have everything necessary for proper installation. You'll need:

- To meet **code requirements**: some codes keep from or limit installation of clothes dryers in garages, closets, mobile homes and sleeping quarters. (Check with your local building inspector.)

Important: observe all governing codes and ordinances.

- To check **utilities**: proper gas and electric supply connections should be available.
- To check **exhaust requirements**: a four inch metal exhaust duct is required.

LOCATION



Size: Must be large enough to fully open dryer door. For recessed or closet installation spacing, see back cover.

Support: The floor must be able to support the appliance weight of 175 pounds.

Level floor: Maximum floor slope under dryer - 1 inch.

Protection from the weather: Proper operation of dryer cycles requires temperatures above 45° F., or the dryer may not shut off when automatic cycles are used.

This appliance is suitable for mobile home installations. The installation of the dryer must conform to the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 (formerly the Federal Standard for Mobile Home Construction and Safety, Title 24, HUD, Part 280).

For mobile home use, this appliance MUST be fastened to the floor and MUST be exhausted to the outside. Order Mobile Home Installation Kit No. 346765 from your Whirlpool dealer. Kit includes the necessary fastening hardware and detailed installation instructions. Exhaust system hardware is also available through your Whirlpool dealer.

This installation must conform with American National Standard, National Fuel Gas Code ANSI Z223.1 - latest edition, and all local codes and ordinances.

Input ratings shown on the rating plate (serial tag) are for elevations up to 2,000 feet. For elevations above 2,000 feet, ratings should be reduced at a rate of 4% for each 1,000 feet above sea level.

Gas supply requirements

⚠ WARNING

Fire Hazard

- This dryer must be connected to a regulated gas supply. Failure to do so could cause high-pressure gas release, resulting in a fire or explosion.
 - Have the L.P. gas checked by a qualified person before installing the dryer. The L.P. gas supply must not exceed a pressure of 13" water column.
 - New flexible tubing should be used. Reusing old flexible tubing might result in possible leaks or fire hazard.
- Failure to follow these instructions may result in fire or explosion.

OBSERVE ALL GOVERNING CODES AND ORDINANCES

A. First make certain that this dryer is equipped with the correct burner for the particular type of gas in the home. Burner information will be found on the rating plate in door well of the appliance. If this information does not agree with the type of gas available, see your dealer.

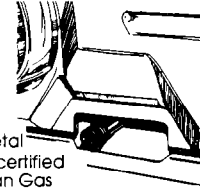
B. This dryer is equipped for use with NATURAL GAS. It is certified by A.G.A. for manufactured, mixed and L.P. gases with appropriate conversion. No attempt shall be made to convert the appliance from the gas specified on the rating plate for use with a different gas without consulting the serving gas supplier. **Conversion must be done by a qualified service technician. Gas conversion kit part numbers are listed on the gas valve burner base.**

C. Provide a gas supply line to the dryer location. When rigid pipe is used it should be 1/2 inch IPS. When acceptable to the gas supplier, 3/8 inch approved tubing may be used for lengths under 20 feet. For lengths over 20 feet, larger tubing should be used. Pipe joint compounds resistant to the action of LP gas must be used.

D. The supply line should be equipped with a shutoff valve. This valve should be located in the same room as the dryer and should be in a location that allows ease of opening and closing. Do not block access to shutoff valve.

E. If the dryer is installed in a confined area such as a bedroom, bathroom or closet, it must be exhausted to the outside and provision made for enough air for combustion and ventilation. (Check governing codes and ordinances.) Also refer to the section of this instruction covering Recessed or Closet Installations.

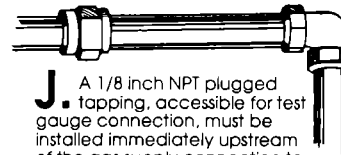
F. If local codes permit, it is recommended that flexible metal tubing, design certified by the American Gas Association, be used for connecting the appliance to the gas supply line. (The gas pipe which extends through the lower rear of the appliance has 3/8 inch male pipe thread.)



G. If rigid pipe is used as a gas supply line, a combination of pipe fittings must be used to obtain an in-line connection to the dryer.

H. Make sure that lower edges of the cabinet, plus the back and bottom sides of the dryer are free of obstructions to permit adequate clearance of air openings for combustion air. See Recessed Area Instructions, back page, for minimum spacing requirements.

I. For ease of installation, operation and servicing (if ever needed) adequate space should be provided around the dryer.



J. A 1/8 inch NPT plugged tapping, accessible for test gauge connection, must be installed immediately upstream of the gas supply connection to the dryer. The dryer and its 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 psig (3.45 kPa).

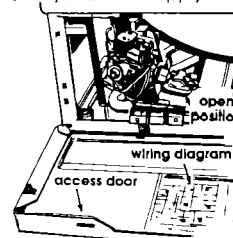
The dryer must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.45 kPa).

Important: observe all governing codes and ordinances.

K. The dryer shutoff valve and the wiring diagram are located behind the lower front access panel. Open the access panel by pushing down on the locking clips with a small, flat-blade screwdriver, and pulling panel forward. The clips are located on top of the panel 3 inches in from each side. The panel is hinged at the bottom. Close the access panel after servicing. Do not operate the dryer with the access panel open.

L. If dryer will not operate, check the following to be sure that:

1. Electric supply is connected.
2. Fuse is intact and tight.
3. Door is closed.
4. Controls are set in a running or "On" position.
5. Start button has been pushed firmly or the power control lever moved upward to start.
6. Gas shutoff valves are open both on dryer and on supply lines.



Electrical requirements

⚠ WARNING

Electrical Shock Hazard

- Electrical ground is required on this appliance.
- Improper connection of the equipment-grounding conductor can result in a risk of electrical shock.
- Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded. Do Not modify the power supply cord plug. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.
- Do Not use an extension cord with this appliance. Such use may result in a fire, electrical shock or other personal injury.
- Do Not have a fuse in the neutral or grounding circuit. A fuse in the neutral or grounding circuit could result in electrical shock.

Failure to follow these instructions could result in a fire, electrical shock, or other personal injury.

A 120-volt, 60-Hz, AC only, 15-or 20-Ampere fused electrical supply is required. Time-delay fuse or circuit breaker is recommended. It is recommended that a separate circuit serving only this appliance be provided.

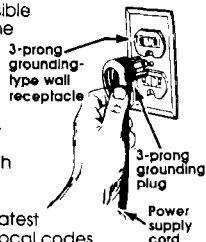
RECOMMENDED GROUNDING METHOD

Electrical ground is required on this appliance.

DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE POWER SUPPLY CORD GROUNDING

For your personal safety, this appliance must be grounded. This appliance is equipped with a power supply cord having a 3-prong grounding plug.

To minimize possible shock hazard, the cord must be plugged into a mating 3-prong grounding-type wall receptacle, grounded in accordance with the National Electrical Code, ANSI/NFPA 70 - latest edition, and all local codes and ordinances. If a mating wall receptacle is not available, it is the personal responsibility and obligation of the customer to have a properly grounded 3-prong wall receptacle installed by a qualified electrician.



For added personal safety, using the clamp and green-colored copper wire furnished, connect this separate grounding wire (#18 minimum) from the external grounding connector on the back of the appliance to a grounded cold water pipe.*

TEMPORARY GROUNDING METHOD

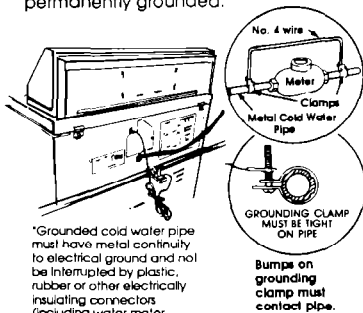
DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE POWER SUPPLY CORD GROUNDING PRONG.

THIS, HOWEVER IS NOT RECOMMENDED.

If changing and properly grounding the wall receptacle is impossible and where local codes permit (consult your electrical inspector), a temporary adapter may be plugged into the existing 2-prong wall receptacle to mate with the 3-prong power supply cord.

If this is done, you **must** connect a separate copper grounding wire (No.-18 minimum) to a grounded cold water pipe* by means of a clamp and then to the external ground connector screw.

Do not ground to a gas supply pipe or hot water pipe. Do not connect to electrical supply until appliance is permanently grounded.



*Grounded cold water pipe must have metal continuity to electrical ground and not be interrupted by plastic, rubber or other electrically insulating connections (including water meter or pump) without adding a jumper wire at these connectors.

Exhaust requirements

⚠ WARNING

Fire/Health Hazard

- Do Not use non-metal, flexible duct.
- Do Not use metal duct smaller than four inches in diameter.
- Do Not use exhaust hoods with magnetic latches.
- Check that exhaust system is not longer than specified. Exhaust systems longer than specified will:
 - Accumulate lint.
 - Shorten the life of the dryer.
 - Reduce performance, resulting in longer drying times and increased energy usage.

Failure to follow specifications may result in a fire.

- Do Not exhaust dryer into a chimney, furnace cold air duct, attic or crawl space, or any other duct used for venting.
- Clean the exhaust system every other year.
- Do Not install flexible duct in enclosed walls, ceilings or floors. Accumulated lint could result in a fire or cause moisture damage.

Exhaust the dryer outside to prevent exposure to substances in the gas fuels and combustion which may be harmful to your health.

The moisture and lint indoors may cause:

- FIRE HAZARD from lint collected in dryer;
- Moisture damage to woodwork, furniture, paint, wallpaper, carpet, etc.
- House cleaning problems and possible health problems.

Failure to follow these instructions could result in fire damage or personal injury.

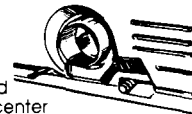
Metal flexible duct may be used. It should be fully extended and supported when the dryer is in its final position. DO NOT KINK OR CRUSH THE DUCT. The metal flexible duct must be completely open to allow adequate exhaust air to flow.

Use Duct Tape to seal all joints.

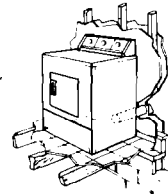


If the dryer is installed in a confined area such as a bedroom, bathroom or closet, it must be exhausted to the outside and provision made for enough air for combustion and ventilation. (Check governing codes and ordinances.) Also refer to the section of this instruction covering Recessed and Closet Instructions.

The Exhaust Outlet is located at the bottom center of the back dryer.



The Exhaust Duct can be routed up, down, left, right or straight out the back of the dryer.

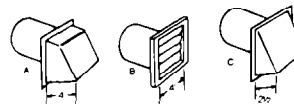


An Exhaust Hood should cap the exhaust duct to prevent exhausted air from returning into dryer. The outlet of the hood must be at least 12 inches from the ground or anything else that may be in the path of the exhaust.

A 2-1/2 inch outlet Exhaust Hood should be used with short systems only. (This outlet creates greater back pressure than other hood types.)

Exhaust Hoods with magnetic latches should not be used.

The Maximum Length of the exhaust system depends upon the type of duct used, number of elbows and type of exhaust hood. The maximum length for both rigid and flexible duct is shown in chart.

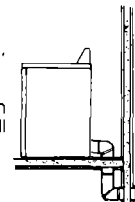


NUMBER OF 90° TURNS	EXHAUST HOOD TYPE			MAXIMUM LENGTH OF 4" DIA. RIGID METAL DUCT
	A	B	C	
0	64 FT.	64 FT.	58 FT.	
1	54 FT.	54 FT.	48 FT.	
2	44 FT.	44 FT.	38 FT.	
3	35 FT.	35 FT.	29 FT.	
4	27 FT.	27 FT.	21 FT.	MAXIMUM LENGTH OF 4" DIA. FLEXIBLE METAL DUCT
0	36 FT.	36 FT.	28 FT.	
1	31 FT.	31 FT.	23 FT.	
2	27 FT.	27 FT.	19 FT.	
3	25 FT.	25 FT.	17 FT.	
4	23 FT.	23 FT.	15 FT.	

The Maximum length using a 2" x 6" rectangular duct with 2 elbows and a 2-1/2" Exhaust hood is 8 ft.

For Exhaust Systems not covered by the exhaust length chart, check with your Whirlpool dealer or service center for a dryer manual Part No. 603197. The back pressure in any exhaust system used must not exceed 0.3 inches of water column measured with an inclined manometer at the point that the exhaust duct connects to the dryer.

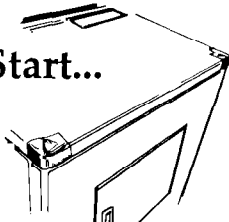
For Mobile Home installation, the dryer **must** have an outside exhaust. If you exhaust the dryer through the floor and the area under your mobile home is enclosed, the exhaust system must terminate outside the enclosed area. Extension beyond the enclosure will prevent lint and moisture build-up under the mobile home.



Now Start...

1.

Take tape off front corners of dryer.



2.

Open dryer and remove the literature and parts packages. (If dryer has a drying rack it should be removed also.) Remove all parts from the plastic packages. Line these up next to your tools so each part is there when you need it. Check to see that you have these parts:

4 legs
1 grounding wire



3.

Remove the tape that holds the drum to the cabinet. (Some dryer drums are not taped for shipping.) Move the drum by hand to make certain all tape has been removed. Wipe the interior of the drum thoroughly with a damp cloth before using the dryer. Remove the tape from the lint screen.

4.

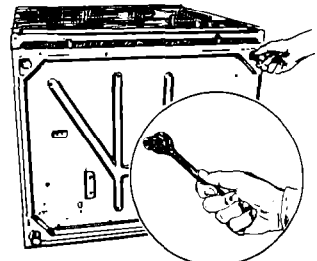
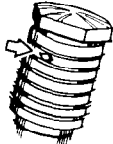
Take two of the cardboard corners from the carton and place them on the floor in back of the dryer.

5.

Firmly grasp the body of the dryer and gently lay it on its back on the cardboard corners.

6.

With one of the legs in hand, check the ridges for a diamond marking. That's how far the leg is supposed to go into the hole. Start to screw the legs into the holes by hand. Use a small amount of liquid detergent to lubricate the screw so it is easier to turn the leg. Use a 1" wrench or socket



to finish turning the legs until you have reached the diamond mark.

CAUTION

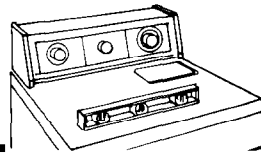
Floor Damage
Slide dryer onto cardboard or hardboard before moving across floor.
Failure to do so may cause damage to floor covering.

7.

Now stand the dryer up.

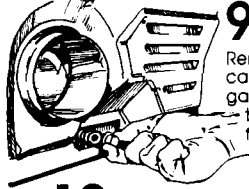
8.

Move the dryer close to its final location. To make sure the dryer is level, take a carpenter's level and place it on the top of the dryer, first side to side, then front to back. If the dryer is not level, screw the legs of the dryer up or down to adjust.



9.

Remove the red cap from the the gas pipe. Move the dryer into its final position.



10.

Connect gas supply to dryer. Use pipe joint compound resistant to the action of LP gas for gas connections. If flexible metal tubing is used, be certain there are no kinks.

All connections must be wrench-tightened.

11.

The gas valve inside the dryer is shipped in the "ON" position. Check that the gas valve shutoff control is still in the "ON" position.

12.

Open the shutoff valve in the gas supply line.

WARNING

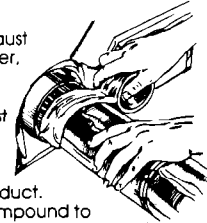
Fire Hazard
Do Not use an open flame to test for leaks from gas connections. Checking for leaks with a flame may result in a fire or explosion.

13.

Use a brush and liquid detergent to test all gas connections for leaks. Bubbles around connections will indicate a leak. If a leak appears, shut off gas valve controls and adjust connections. Then check connections again.

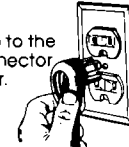
14. To exhaust the dryer, see Exhaust requirements.

Connect exhaust duct to exhaust hood. Use duct tape to seal all joints in exhaust duct. Use caulking compound to seal exterior wall opening around exhaust hood.



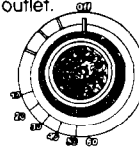
15.

Connect the grounding wire to the external grounding connector on the back of the dryer. Connect the other end of the grounding wire to a grounded cold water pipe. Plug the electrical cord into the grounded outlet.



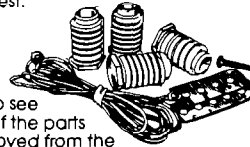
16.

Turn the dryer on to remove air from the gas supply line. Using a full heat cycle (not the air cycle), let the dryer run for at least five minutes. If the burner does not ignite and you can feel no heat inside the dryer, shut off the dryer for five minutes. Check that all supply valve controls are in "ON" position and that the electrical cord is plugged in. Repeat the five-minute test.



17.

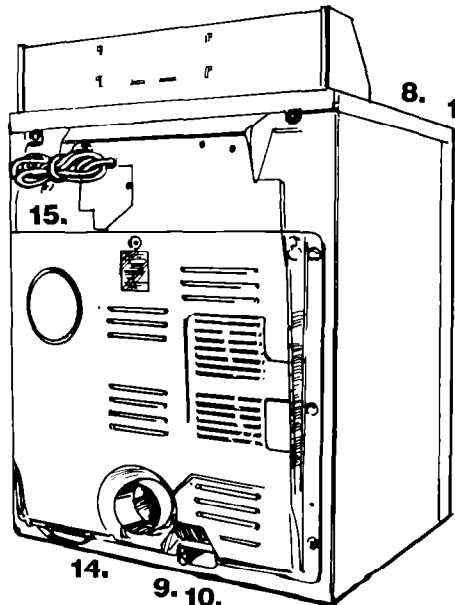
Check to see that all of the parts you removed from the installation parts packages in step 2 are now installed in the dryer. If you still have an extra part, go back through the steps to see what you skipped.



18.

Check to make sure you have all the tools you started with in step A.

To get the most efficient use from your new dryer, read your Use and Care Guide. Keep Installation Instructions and guide close to the dryer for easy reference.



Numbers correspond to steps.

Recessed and closet installation instructions

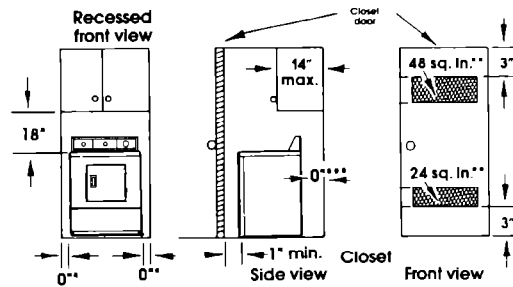
⚠ WARNING

Fire/Health Hazard

- Exhaust the dryer to the outside to prevent exposure to substances in the gas fuels and combustion which may be harmful to your health.
- If dryer is installed in a closet, the dryer **MUST** be exhausted outside.

Failure to do so may result in a fire.

The following installation spacings and door air openings for the dryer are possible when installed and exhausted as noted. (Spacing as indicated is in inches and is minimum allowable. For ease of installation and service, additional spacing should be considered.)



TO PREVENT LARGE AMOUNTS OF LINT AND MOISTURE FROM ACCUMULATING AND TO MAINTAIN DRYING EFFICIENCY, THIS MACHINE MUST BE EXHAUSTED OUTDOORS.

*Additional clearances for wall, door and floor moldings may be required.
 **Opening is minimum for closet door. Louvered door with equivalent air openings is acceptable.
 ***Additional space may be needed when external exhaust elbow is used.

Companion appliance spacings should be considered.

Detailed space requirements can be found on the label located on the back panel of dryer.

NOTE: No other fuel burning appliance may be installed in the same closet.

If dryer does not operate properly...

If dryer will not operate, check the following to be sure that:

- Electrical supply is connected.
- Fuse is intact and tight.
- Door is closed.
- Controls are set in a running or "ON" position.
- Start button has been pushed firmly or the power control lever moved upward to start.
- Gas shutoff valves are open both on dryer and on supply lines.

When moving the dryer...

- Disconnect the electrical cord and grounding wire and tape securely to dryer.
- Shut off the gas supply valve controls in the gas supply line.
- Disconnect gas pipe fittings from dryer and cap the gas supply line.
- Tape the drum to the front panel. Tape the dryer door, lint screen lid and end of gas pipe.
- Screw leveling legs all the way in.

Before installing your dryer in your new home, check with your gas supplier or dealer to see that your dryer is equipped with the correct burner for the particular type of gas in your new home. Burner information may be found on the rating plate in the door well of the dryer.

