

# 27" (69 CM) GAS WASHER/DRYER INSTALLATION INSTRUCTIONS

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## WASHER/DRYER SAFETY

### Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING."

These words mean:

**⚠ DANGER**

**You can be killed or seriously injured if you don't immediately follow instructions.**

**⚠ WARNING**

**You can be killed or seriously injured if you don't follow instructions.**

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

### IMPORTANT SAFETY INSTRUCTIONS

When discarding or storing your old clothes dryer, remove the door.

**SAVE THESE INSTRUCTIONS**

**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.**

- Do not store or use gasoline or other flammable vapors and 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.**

In the State of Massachusetts, the following installation instructions apply:

- **Installations and repairs must be performed by a qualified or licensed contractor, plumber, or gasfitter qualified or licensed by the State of Massachusetts.**
- **If using a ball valve, it shall be a T-handle type.**
- **A flexible gas connector, when used, must not exceed 3 feet.**

# INSTALLATION INSTRUCTIONS

## Tools and Parts

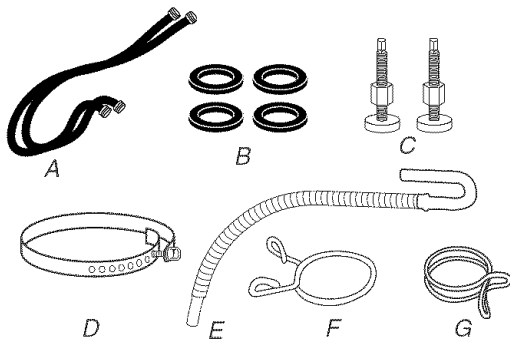
Check that you have everything necessary for correct installation. Proper installation is your responsibility.

### Tools needed:

- 8" or 10" adjustable wrench (for gas connections)
- Flat-blade screwdriver
- Adjustable wrench that opens to 1" (2.5 cm) or  $\frac{3}{16}$ " (14 mm) open-end wrench (for adjusting dryer feet)
- Level
- $\frac{1}{4}$ " nut driver or socket wrench
- Wood block (for leveling)
- Ruler or measuring tape
- Knife
- Safety glasses
- Vent clamps
- Pipe-joint compound resistant to L.P. gas
- Caulking gun and compound (for installing new exhaust vent)
- Gloves
- Pliers that open to  $1\frac{1}{16}$ " (3.95 cm)
- Scissors
- Tin snips (new vent installation)

### Parts supplied:

Remove parts package from the washer basket. Check that all parts are included.



- A. Water inlet hoses (2)
- B. Inlet hose flat washers (4)
- C. Front leveling feet with nuts (2)
- D. Shipping strap (not in parts bag, see "Remove Shipping Strap")
- E. Drain hose
- F. Yellow, single wire hose clamp
- G. Silver, double wire hose clamp

### Parts needed:

Check local codes and with gas supplier, check existing gas supply, electrical supply and venting, and read "Electrical Requirements," "Gas Supply Requirements" and "Venting Requirements" before purchasing parts.

Mobile home installations require special parts (listed following) available for purchase from the dealer from whom you purchased your dryer. For further information, please reference the "Assistance or Service" section of your "Washer/Dryer User Instructions."

- Mobile Home Installation Kit. Ask for Part Number 346764.
- Metal exhaust system hardware.

## Alternate Parts

Your installation may require additional parts. For ordering information, please refer to the toll free phone numbers on the front page of your "Washer/Dryer User Instructions."

If You Have	You Will Need to Buy
Laundry tub or standpipe taller than 96" (2.4 m)	Sump pump system (if not already available)
1" (2.5 cm) diameter standpipe	2" (5 cm) diameter to 1" (2.5 cm) diameter standpipe adapter, Part Number 3363920
Overhead sewer	Standard 20 gal. (76 L) 34" (86.4 cm) tall drain tub or utility sink and sump pump (available from local plumbing suppliers)
Floor drain	Siphon break, Part Number 285320, additional drain hose, Part Number 285702 and connector kit, Part Number 285442
Drain hose too short	Drain hose, Part Number 285664 and connector kit, Part Number 285442
Lint clogged drain	Drain protector, Part Number 367031
Water faucets beyond reach of fill hoses	2 longer water fill hoses: 6 ft (1.8 m) Part Number 76314, 10 ft (3.0 m) Part Number 350008

## Location Requirements

### ⚠ WARNING



#### Explosion Hazard

Keep flammable materials and vapors, such as gasoline, away from dryer.

Failure to do so can result in death, explosion, or fire.

### You will need

- A location that allows for proper exhaust installation. A gas washer/dryer must be exhausted to the outdoors. See "Venting Requirements."
- A grounded electrical outlet located within 2 ft (61 cm) of either side of the washer/dryer. See "Electrical Requirements."

- A sturdy floor to support the washer/dryer weight (washer/dryer, water and load) of 500 lbs (226.8 kg).
- A level floor with a maximum slope of 1" (2.5 cm) under entire washer/dryer. Clothes may not tumble properly and automatic sensor cycles may not operate correctly if washer/dryer is not level. Installing on carpet is not recommended.
- A water heater set to deliver 120°F (49°C) water to the washer.
- Hot and cold water faucets located within 4 ft (1.2 m) of the hot and cold water fill valves, and water pressure of 5-100 psi (34.5-689.6 kPa).

The washer/dryer must not be installed or stored in an area where it will be exposed to water and/or weather.

Do not operate your washer in temperatures at or below 32°F (0°C). Some water can remain in the washer and can cause damage in low temperatures. See "Washer/Dryer Care" in the "Washer/Dryer User Instructions" for winterizing information.

Do not operate your dryer in temperatures below 45°F (7°C). At lower temperatures, the dryer might not shut off at the end of an automatic cycle. This can result in longer drying times.

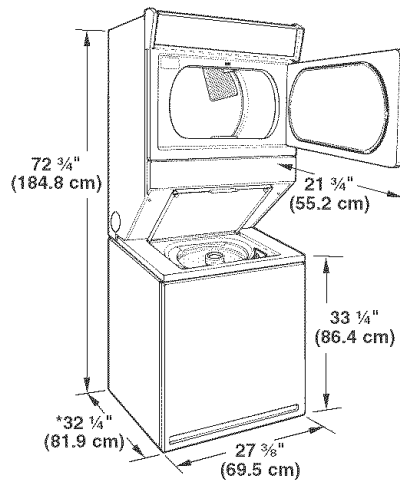
Check code requirements. Some codes limit, or do not permit, installation of the washer/dryer in garages, closets, mobile homes, or sleeping quarters. Contact your local building inspector.

**NOTE:** No other fuel-burning appliance can be installed in the same closet as a dryer.

### Installation Clearances

The location must be large enough to fully open the dryer door.

### Washer/Dryer Dimensions



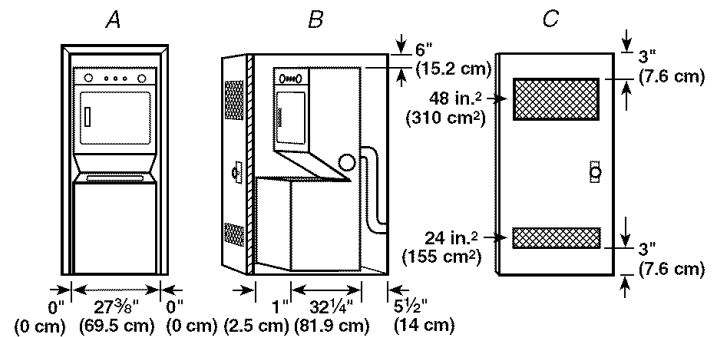
\*Most installations require a minimum 5 1/2" (14 cm) clearance behind the dryer for the exhaust vent with elbow. See "Venting Requirements."

### Minimum installation spacing for recessed area or closet installation

The following dimensions shown are for the minimum spacings allowed.

- Additional spacing should be considered for ease of installation and servicing.
- Additional clearances might be required for wall, door and floor moldings.
- Additional spacing of 1" (2.5 cm) on all sides of the washer/dryer is recommended to reduce noise transfer.
- For closet installation, with a door, minimum ventilation openings in the top and bottom of the door are required. Louvered doors with equivalent ventilation openings are acceptable.

- Rear clearance may be 0" when house exhaust system is lined up directly with dryer exhaust.



A. Recessed area

B. Side view - closet or confined area

C. Closet door with vents

### Mobile Home - Additional Installation Requirements

This washer/dryer is suitable for mobile home installations. The installation 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).

#### Mobile home installations require:

- Metal exhaust system hardware which is available for purchase from your dealer.
- Mobile Home Installation Kit Part Number 346764. See "Tools and Parts" section for ordering information.
- Special provisions must be made in mobile homes to introduce outside air into the dryer. The opening (such as a nearby window) should be at least twice as large as the dryer exhaust opening.

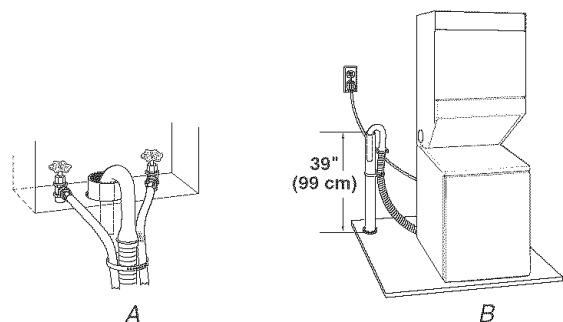
### Drain System

The washer/dryer can be installed using the standpipe drain system (floor or wall), the laundry tub drain system, or the floor drain system. Select the drain hose installation method you need. See "Alternate Parts."

#### Standpipe drain system - wall or floor (views A & B)

The standpipe drain requires a minimum diameter standpipe of 2" (5 cm). The minimum carry-away capacity can be no less than 17 gal. (64 L) per minute. A 2" (5 cm) diameter to 1" (2.5 cm) diameter standpipe adapter kit is available. See "Alternate Parts."

The top of the standpipe must be at least 39" (99 cm) high and no higher than 96" (2.4 m) from the bottom of the washer.



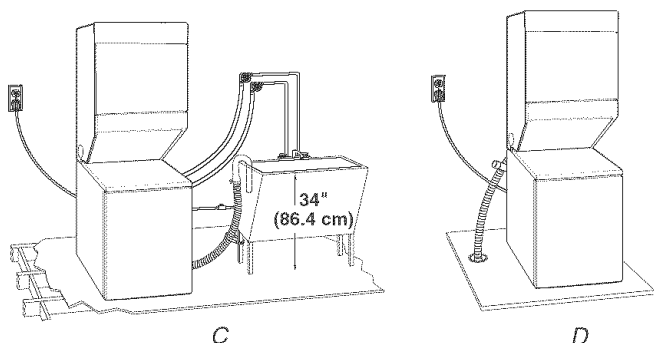
### Laundry tub drain system (view C)

The laundry tub needs a minimum 20 gal. (76 L) capacity. The top of the laundry tub must be at least 34" (86.4 cm) above the floor and no higher than 96" (2.4 m) from the bottom of the washer.

### Floor drain system (view D)

The floor drain system requires a siphon break that may be purchased separately. See "Alternate Parts."

The siphon break must be a minimum of 28" (71 cm) from the bottom of the washer. Additional hoses might be needed.



## Electrical Requirements

### ⚠ WARNING



#### Electrical Shock Hazard

Plug into a grounded 3 prong outlet.

Do not remove ground prong.

Do not use an adapter.

Do not use an extension cord.

Failure to follow these instructions can result in death, fire, or electrical shock.

- A 120-volt, 60-Hz., AC-only, 15- or 20-amp, fused electrical supply is required. A time-delay fuse or circuit breaker is recommended. It is also recommended that a separate circuit serving only this appliance be provided.
- To minimize possible shock hazard, the cord must be plugged into a mating, 3 prong, ground-type outlet, grounded in accordance with local codes and ordinances. If a mating outlet is not available, it is the personal responsibility and obligation of the customer to have the properly grounded outlet installed by a qualified electrician.

**IMPORTANT:** The washer/dryer must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70.

- If codes permit and a separate ground wire is used, it is recommended that a qualified electrician determine that the ground path is adequate.
- Do not ground to a gas pipe.

- Check with a qualified electrician if you are not sure the washer/dryer is properly grounded.
- Do not have a fuse in the neutral or ground circuit.

### GROUNDING INSTRUCTIONS

- For a grounded, cord-connected washer/dryer: This washer/dryer must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This washer/dryer is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**WARNING:** Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative or personnel if you are in doubt as to whether the washer/dryer is properly grounded. Do not modify the plug provided with the washer/dryer: if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

### SAVE THESE INSTRUCTIONS

## Gas Supply Requirements

### ⚠ WARNING



#### Explosion Hazard

Use a new AGA or CSA approved gas supply line.

Install a shut-off valve.

Securely tighten all gas connections.

If connected to LP, have a qualified person make sure gas pressure does not exceed 13" (33 cm) water column.

Examples of a qualified person include:

licensed heating personnel,  
authorized gas company personnel, and  
authorized service personnel.

Failure to do so can result in death, explosion, or fire.

### Gas Type

#### Natural Gas:

This washer/dryer is equipped for use with natural gas. It is design-certified by CSA International for L.P. (propane or butane) gases with appropriate conversion.

- Your washer/dryer must have the correct burner for the type of gas in your home. Burner information is located on the rating plate in the door well of your dryer. If this information does not agree with the type of gas available, contact your dealer or call the phone numbers referenced on the front page of your "Washer/Dryer User Instructions."

## L.P. gas conversion:

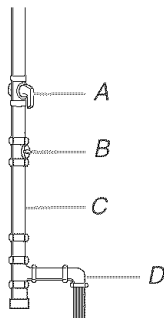
Conversion must be made by a qualified technician.

No attempt shall be made to convert the appliance from the gas specified on the model/serial rating plate for use with a different gas without consulting the serving gas supplier.

**IMPORTANT:** The gas installation must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54.

## Gas Supply Line

- ½" IPS pipe is recommended.
- ¾" approved tubing is acceptable for lengths under 20 ft (6.1 m) if local codes and gas supplier permit.
- Lengths over 20 ft (6.1 m) should use larger tubing.
- Must include ⅛" NPT minimum plugged tapping accessible for test gauge connection, immediately upstream of the gas supply connection to the dryer (see illustration).
- Gas supply line coupling must be 34" (86.4 cm) to 37" (94 cm) from the floor.
- Must include a shutoff valve:  
An individual shutoff valve must be installed within six (6) feet (1.8 m) of the washer/dryer in accordance with the National Fuel Gas Code, ANSI Z223.1/NFPA 54. The location should be easy to reach for opening and closing.



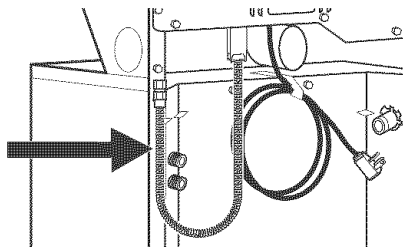
A. Gas shutoff valve  
B. ⅛" NPT plugged tapping  
C. ½" NPT gas supply line  
D. Gas supply line coupling 34" (86.4 cm) min. to 37" (94 cm) max. from floor

- If you are using natural gas, do not use copper tubing.
- If your washer/dryer has been converted to use L.P. gas, ¾" L.P. compatible copper tubing can be used. If the total length of the supply line is more than 20 ft (6.1 m), use larger tubing.

**NOTE:** Pipe joint compounds that resist the action of L.P. gas must be used. Do not use TEFLON<sup>®</sup>† tape.

## Dryer Gas Connection

- This washer/dryer is equipped with its own permanent, flexible gas connector, design-certified by CSA International, for connecting the washer/dryer to the gas supply line.



Flexible gas connector

## Burner Input Requirements:

### Elevations up to 10,000 ft (3,048 meters):

- The design of this washer/dryer is certified by CSA International for use at altitudes up to 10,000 ft (3,048 m) above sea level at the B.T.U. rating indicated on the model/serial number plate. Burner input adjustments are not required when the dryer is operated up to this elevation.

### Elevations above 10,000 ft (3,048 meters):

- When installed above 10,000 ft (3,048 m) a 4% reduction of the burner B.T.U. rating shown on the model/serial number plate is required for each 1,000 ft (305 m) increase in elevation.

## Gas Supply Pressure Testing

- The washer/dryer must be disconnected from the gas supply piping system during pressure testing at pressures greater than ½ psi.

## Venting Requirements

### ⚠ WARNING



#### Fire Hazard

Use a heavy metal vent.

Do not use a plastic vent.

Do not use a metal foil vent.

Failure to follow these instructions can result in death or fire.

**WARNING:** To reduce the risk of fire, this washer/dryer **MUST BE EXHAUSTED OUTDOORS.**

4" (10.2 cm) heavy metal exhaust vent and clamps must be used. DURASAFE™ venting products are recommended.

DURASAFE™ vent products can be purchased from your dealer or by calling Whirlpool Parts and Accessories. For more information, see the "Assistance or Service" section of your "Washer/Dryer User Instructions."

- The dryer exhaust must not be connected into any gas vent, chimney, wall, ceiling, or a concealed space of a building.
- Do not use an exhaust hood with a magnetic latch.
- Do not install flexible metal vent in enclosed walls, ceilings or floors.
- Use clamps to seal all joints. Exhaust vent must not be connected or secured with screws or other fastening devices which extend into the interior of the duct. Do not use duct tape.

†TEFLON is a registered trademark of E.I. Du Pont De Nemours and Company.

**IMPORTANT:** Observe all governing codes and ordinances.

**Improper venting can cause moisture and lint to collect indoors, which may result in:**

- Moisture damage to woodwork, furniture, paint, wallpaper, carpets, etc.
- Housecleaning problems and health problems.

Use a heavy metal vent. Do not use plastic or metal foil vent. Rigid metal vent is recommended to prevent crushing and kinking. Flexible metal vent must be fully extended and supported when the washer/dryer is in its final position. Remove excess flexible metal vent to avoid sagging and kinking that may result in reduced airflow and poor performance.

An exhaust hood should cap the vent to prevent rodents and insects from entering the home.

Exhaust hood must be at least 12" (30.5 cm) from the ground or any object that may be in the path of the exhaust (such as flowers, rocks or bushes, etc.).

If using an existing vent system, clean lint from the entire length of the system and make sure exhaust hood is not plugged with lint. Replace any plastic or metal foil vent with rigid metal or flexible metal vent.

### Remove Shipping Strap

#### **! WARNING**

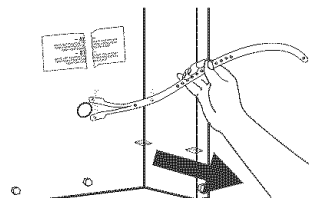
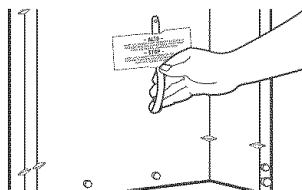
##### **Excessive Weight Hazard**

**Use two or more people to move and install washer/dryer.**

**Failure to do so can result in back or other injury.**

To prevent floor damage, set washer/dryer onto cardboard before moving across floor. Move washer/dryer close to its final location.

1. Do not cut yellow strap. Pull yellow strap firmly, until completely removed from washer/dryer. There should be 2 cotter pins on the end of the shipping strap. The electrical plug is attached to this shipping strap.

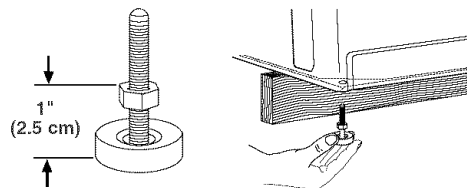


2. Tilt the washer/dryer forward. Move each of the 2 rear legs in an up-down motion to check the self-adjusting leveling legs for free movement. This is required for proper leveling. Gently lower the washer/dryer to the floor.
3. Cut the shipping strap about 16" (40.6 cm) from the plug end. Look for the words "CUT HERE." Discard end with cotter pins. You will use the remaining piece of shipping strap to secure the drain hose.

### Install Leveling Legs

#### **Install the front leveling feet**

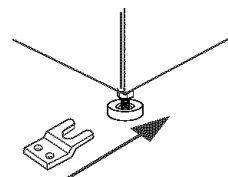
1. Prop up the front of the washer/dryer about 4" (10.2 cm) with a wood block or similar object. The block needs to support the weight of the washer/dryer.
2. Screw the lock nut onto each foot to within 1" (2.5 cm) of the base.



3. Screw the feet into the correct holes at the front corner of the washer/dryer until the nuts touch the washer.  
**NOTE:** Do not tighten the nuts until the washer/dryer is level.
4. Tilt the washer/dryer back and remove the wood block. Gently lower the washer/dryer to the floor.

#### **For mobile home use**

Washer/dryers with gas dryers must be securely fastened to the floor.



Mobile home installations require a Mobile Home Installation Kit. See "Tools and Parts" section for ordering information.

### Connect the Drain Hose

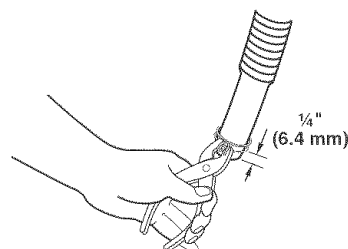
Proper connection of the drain hose protects your floors from damage due to water leakage. To prevent the drain hose from coming off or leaking, it must be installed per the following instructions:

**IMPORTANT:** To ensure proper installation, this procedure must be followed exactly.

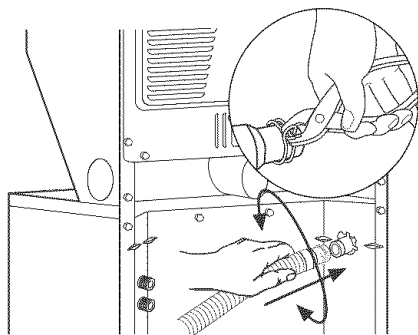
1. Check the drain hose to see whether it is the proper length.
2. Wet the inside of the straight end of the drain hose with tap water.

**IMPORTANT:** Do not use any lubricant other than water.

3. Squeeze ears of the silver, double-wire clamp with pliers to open. Place clamp over the straight end of the drain hose 1/4" (6.4 mm) from the end.



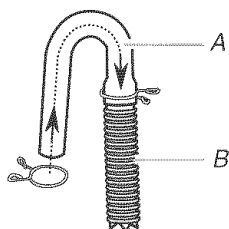
4. Open clamp. Twist hose back and forth while pushing onto drain connector on the side of the washer/dryer. Continue until hose contacts the ribbed stops on the cabinet.



5. Place clamp over the area marked "CLAMP." Release clamp.

#### For laundry tub or standpipe drain systems

1. Open the yellow single-wire clamp and slide over the hooked end of the drain hose to secure the rubber and corrugated sections together.



A. Hooked end  
B. Drain hose

2. Put hooked end of drain hose into laundry tub or standpipe. Rotate hook to eliminate kinks.

#### To prevent drain water from going back into the washer:

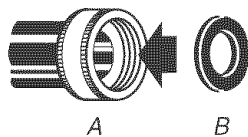
- Do not straighten hooked end of the drain hose and force excess drain hose into standpipe. Hose should be secure but loose enough to provide a gap for air.
- Do not lay excess hose on the bottom of the laundry tub.

#### For use with floor drain

Remove the drain hose hook from the corrugated drain hose. You may need additional parts. See "Floor drain" under "Alternate Parts."

### Connect the Inlet Hoses

1. Insert a new flat washer (supplied) into each end of the inlet hoses. Firmly seat the washers in the couplings.



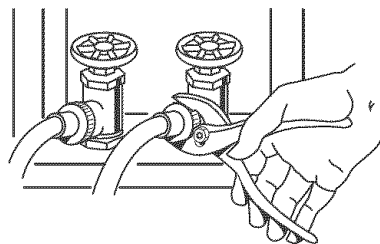
A. Coupling  
B. Washer

#### Connect the inlet hoses to the water faucets

Make sure the washer basket is empty.

2. Attach the hose with the red coupling to the hot water faucet. Screw on coupling by hand until it is seated on the washer.
3. Attach the hose with the blue coupling to the cold water faucet. Screw on coupling by hand until it is seated on the washer.

4. Using pliers, tighten the couplings with an additional two-thirds turn.



**NOTE:** Do not overtighten. Damage to the valves can result.

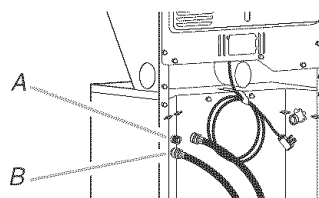
#### Clear the water lines

5. Run water through both faucets and inlet hoses, into a bucket or laundry tub, to get rid of particles in the water lines that might clog the inlet valve screens.

#### Connect the inlet hoses to the washer

6. Attach the hose with the blue coupling to the cold water (top) inlet valve. Screw on coupling by hand until it is seated on the washer. Using pliers, tighten the couplings with an additional two-thirds turn.

**NOTE:** Do not overtighten. Damage to the valves can result.



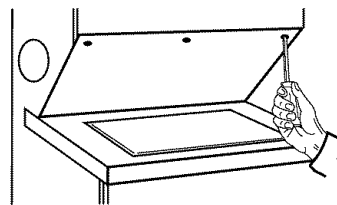
A. Cold water inlet valve (blue)  
B. Hot water inlet valve (red)

7. Attach the hose with the red coupling to the hot water (bottom) inlet valve. Screw on coupling by hand until it is seated on the washer. Using pliers, tighten the couplings with an additional two-thirds turn.

**NOTE:** Do not overtighten. Damage to the valves can result.

#### If you are working in a closet or recessed area

Move the washer/dryer into its final position and remove cardboard from under washer/dryer. Remove the access panel by removing 3 Phillips-head screws and one bumper, located at the top of the access panel. Set panel, screw, and bumper aside. Complete hookup of water hoses and (on gas models) the flexible gas connector through the access area. Replace access panel upon completion of washer/dryer installation.



#### Check for leaks

8. Turn on the water faucets and check for leaks. A small amount of water might enter the washer. You will drain this later.

**NOTE:** Replace inlet hoses after 5 years of use to reduce the risk of hose failure. Record hose installation or replacement dates for future reference.

- If you connect only one water hose, you must cap off the remaining water inlet port.
- Periodically inspect and replace hoses if bulges, kinks, cuts, wear, or leaks are found.



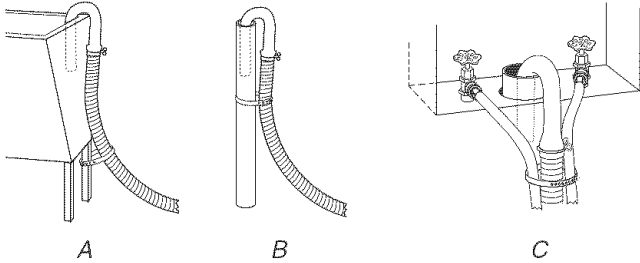
## Secure the Drain Hose

1. Move the washer/dryer to its final location and remove any cardboard used to move the washer/dryer.
2. Locate the remaining piece of shipping strap. See "Remove Shipping Strap."



Shipping Strap

3. Wrap the drain hose to the laundry tub leg or standpipe with the shipping strap (A or B below). Push fastener into the nearest hole in the shipping strap (see illustration above).

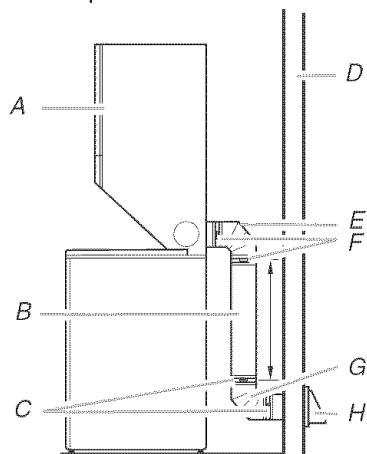


If the water faucets and the drain standpipe are recessed, put the hooked end of the drain hose in the standpipe. Tightly wrap the shipping strap around the water inlet hoses and the drain hose (C above). Push fastener into the nearest hole in the shipping strap (see illustration above).

## Plan Vent System

### Typical exhaust installations

Typical installations vent the dryer from rear of the washer/dryer. Other installations are possible.



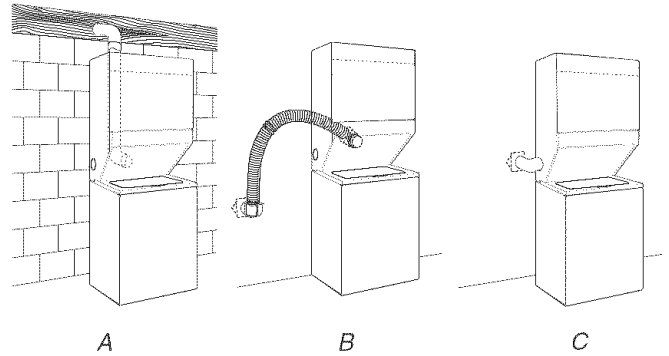
- |                                       |                 |
|---------------------------------------|-----------------|
| A. Dryer                              | E. Elbow        |
| B. Rigid metal or flexible metal vent | F. Clamps       |
| C. Clamps                             | G. Elbow        |
| D. Wall                               | H. Exhaust hood |

### Optional exhaust installations

This washer/dryer can be converted to exhaust out the right or left side. To convert the washer/dryer, use Side Exhaust Kit Part Number 279823. If your washer/dryer was previously exhausted from the right or left side, it can be converted to rear exhaust by using standard offset connections. To cover the hole in the side, one of the following plugs can be added:

- 692790 (white)
- 397784 (biscuit)

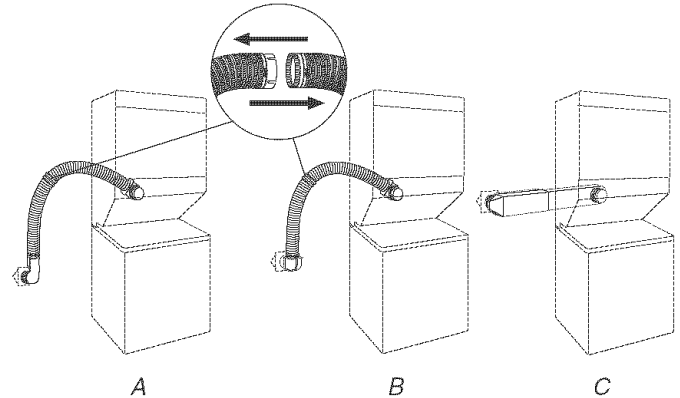
Follow the instructions in the kit to install. Kits are available from the dealer from whom you purchased your washer/dryer.



- A. Standard rear offset exhaust installation
- B. Rear exhaust for offset close clearance connection
- C. Left or right side exhaust installation

### Alternate installations for close clearances

Venting systems come in many varieties. Select the type best for your installation. Three close-clearance installations are shown. Refer to the manufacturer's instructions provided with the vent system.



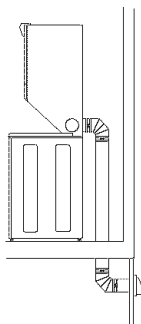
- A. Loop system with standard elbows
- B. Loop system with one offset & one standard elbow
- C. Vent system with one periscope (2" [5 cm] clearance)

**NOTE:** The following kits for close clearance alternate installations are available for purchase. Please reference the "Assistance or Service" section of your "Washer/Dryer User Instructions."

- Over the top Installation:  
Part Number 4396028
- Periscope Installation (For use with dryer vent to wall vent mismatch):  
Part Number 4396037 - 0" (0 cm) to 18" (45.72 cm) mismatch  
Part Number 4396011 - 18" (45.72 cm) to 29" (73.66 cm) mismatch  
Part Number 4396014 - 29" (73.66 cm) to 50" (127 cm) mismatch

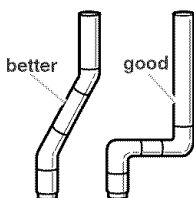
## Special provisions for mobile home installations

The exhaust vent must be securely fastened to a noncombustible portion of the mobile home structure and must not terminate beneath the mobile home. Terminate the exhaust vent outside.



## Determine Vent Length

1. Select the route that will provide the straightest and most direct path outdoors. Plan the installation to use the fewest number of elbows and turns. When using elbows or making turns, allow as much room as possible. Bend vent gradually to avoid kinking. Avoid 90° turns.

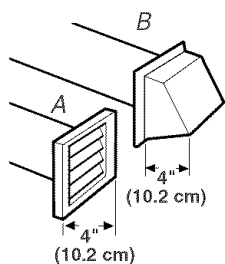


2. Determine vent length.

The maximum length of the exhaust system depends upon:

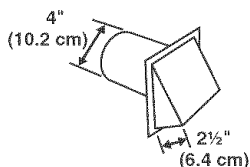
- The type of vent (rigid metal or flexible metal).
- The number of elbows used.
- Type of hood.

Recommended hood styles are shown here.



A. Louvered hood style  
B. Box hood style

The angled hood style (shown following) is acceptable.



See the exhaust vent length chart that matches your hood type for the maximum vent lengths you can use.

Exhaust systems longer than specified will:

- Shorten the life of the dryer.
- Reduce performance, resulting in longer drying times and increased energy usage.

3. Determine the number of elbows you will need.

**IMPORTANT:** Do not use vent runs longer than those specified in Vent Length Chart.

The following chart helps you determine your maximum vent length based on the number of 90° turns or elbows you will need and the type of vent (rigid or flexible metal) and hood that you will use.

## Vent Length Chart

No. of 90° turns or elbows	Type of Vent	Box or Louvered hoods	Angled hoods
0	Rigid metal Flexible metal	37 ft (11.3 m) 25 ft (7.6 m)	35 ft (10.7 m) 20 ft (6.1 m)
1	Rigid metal Flexible metal	32 ft (9.7 m) 21 ft (6.4 m)	27 ft (8.2 m) 16 ft (4.9 m)
2	Rigid metal Flexible metal	24 ft (7.3 m) 15 ft (4.6 m)	19 ft (5.8 m) 10 ft (3.0 m)

**NOTE:** Side exhaust adds a 90° turn inside the washer/dryer. To determine maximum exhaust length, add one 90° turn to the chart.

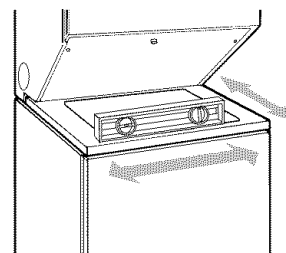
## Install Vent System

1. (Optional) Put on safety glasses and gloves.
2. Install exhaust hood. Use caulking compound to seal exterior wall opening around exhaust hood.
3. Connect vent to exhaust hood. Vent must fit inside exhaust hood. Secure vent to exhaust hood with 4" (10.2 cm) clamp.
4. Run vent to dryer location. Use the straightest path possible. See "Determine Vent Length." Avoid 90° turns. Use clamps to seal all joints. Do not use duct tape, screws or other fastening devices that extend into the interior of the vent to secure vent.

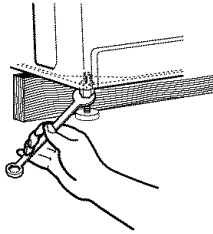
## Level Washer/Dryer

Properly leveling your washer/dryer prevents excessive noise and vibration.

1. Check the levelness of the washer/dryer by placing a level on the top edge of the washer, first side to side, then front to back.



2. If the washer/dryer is not level, prop up the front with the wood block and adjust the feet up or down as necessary. Remove wood block.



3. Tilt the washer/dryer forward until the rear of the washer/dryer is at least 4" (10.2 cm) off the floor. You may hear the self-adjusting rear feet click into place. Lower the washer/dryer to the floor. Check the levelness of the washer/dryer with a level as shown above.

If washer/dryer will not level, recheck rear leveling legs for free movement as described in the "Install Leveling Legs" section. Repeat until the washer/dryer is level.

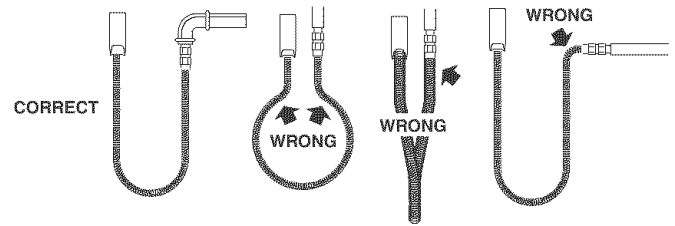
**NOTE:** It may be necessary to level the washer/dryer again after it is moved into its final position.

4. After the washer/dryer is in the final location and level, use an adjustable or open-end wrench to turn the nuts on the front feet tightly against the washer cabinet.

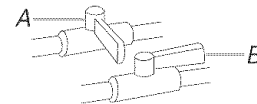
If the nuts are not tight against the washer cabinet, the washer/dryer may vibrate.

4. Attach the flexible gas connector to the 1/2" NPT adapter. Do not use pipe-joint compound for this connection.

There should be a natural loop in the flexible gas connector. The flexible gas connector must not be twisted, kinked or attached with any sharp bends.



5. All connections must be wrench tightened.
6. Open the shutoff valve in the supply. The valve is open when the handle is parallel to the gas pipe.

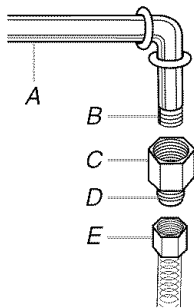


A. Closed valve  
B. Open valve

7. Test all connections by brushing on an approved noncorrosive leak-detection solution. Bubbles will show a leak. Correct any leak found.

### Make Gas Connection

1. Remove the red cap from the flexible gas connector.
2. Remove the 1/2" NPT adapter from the flexible gas connector (it will be necessary to use two adjustable wrenches).
3. Install the adapter on the 1/2" rigid gas supply pipe using pipe-joint compound.



A. 1/2" rigid gas supply pipe  
B. Use pipe-joint compound  
C. 1/2" NPT adapter  
D. Do not use pipe-joint compound  
E. Flexible gas connector

**NOTE:** For L.P. gas connections, you must use pipe-joint compound resistant to the action of L.P. gas. Do not use TEFLON® tape.

### Connect Vent

1. Using a 4" (10.2 cm) clamp, connect vent to exhaust outlet in washer/dryer. If connecting to existing vent, make sure the vent is clean. The vent must fit over the exhaust outlet and inside the exhaust hood. Make sure the vent is secured to exhaust hood with a 4" (10.2 cm) clamp.
2. Move washer/dryer into final position. Do not crush or kink vent. Make sure washer/dryer is level.
3. (On gas models) Check to be sure there are no kinks in the flexible gas line.

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## Complete Installation

1. Check to be sure all parts are now installed. If there is an extra part, go back through the steps to see which step was skipped.
2. Check to be sure you have all of your tools.
3. Dispose of/recycle all packaging materials. Keep the plastic foam for use if the washer/dryer should be transported.
4. Check the washer/dryer's final location. Be sure the vent is not crushed or kinked.
5. Check to be sure the washer/dryer is level and front leveling feet are tight. See "Level Washer/Dryer."
6. Plug into a grounded 3 prong outlet. Turn power on.
7. Check to be sure the water faucets are on.
8. Check for leaks around faucets and inlet hoses.
9. Remove the blue protective film on the console and any tape remaining on the washer/dryer.
10. Read your "Washer/Dryer User Instructions."
11. Wipe the dryer drum interior thoroughly with a damp cloth to remove any dust.
12. To test the washer, measure  $\frac{1}{2}$  the normal recommended amount of detergent and pour it into the washer. Close the lid. Select HEAVY DUTY and pull out the Cycle Control knob. Allow the washer to complete one whole cycle.
13. To test the dryer, set the dryer on a full heat cycle (not an air cycle) for 20 minutes and start the dryer.  
**If the dryer will not start, check the following:**
  - Washer/dryer is plugged into a grounded 3 prong outlet.
  - Start button has been firmly pushed.
  - Electrical supply is connected.
  - House fuse is intact and tight, or circuit breaker has not tripped.
  - Dryer door is closed.
14. When the dryer has been running for 5 minutes, open the dryer door and feel for heat. If you do not feel heat, turn the dryer off and check to see whether the gas supply line shutoff valve is open.
  - If the gas supply line shutoff valve is closed, open it, then repeat the 5-minute test as outlined above.
  - If the gas supply line shutoff valve is open, contact a qualified technician.