

Installation Manual

NORITZ AMERICA
CORPORATION

Vent Kit for Condensing Tankless Gas Water Heater

Model: EZ2FVK-2 (Flex Vent 2" Kit 35 feet)

[Applicable Model]

- [EZTR40] NRC663-FSV
- [EZTR50] EZ98DV (GQ-C2859WX-FF US)
- [EZTR75] EZ111DV (GQ-C3259WX-FF US)

Potential dangers from accidents during installation and use are divided into the following three categories. Closely observe these warnings, they are critical to your safety.



DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

DANGER :

- Never use this Vent Kit other than for the Applicable Model (including the model manufactured by others) designated in this manual.

WARNING :

- If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.
- Do not install only with the Start-up Guide. Read this manual also before installation.



Prohibited



Be sure to do



CAUTION

Requests to Installers

- This manual is for the vent components for the designated tankless water heater. For the installation of the Tankless Water Heater itself, read the installation manual packed with it.
- In order to install this vent kit correctly, read this installation manual carefully, and follow the installation instructions.
- Failures and damage caused by erroneous work or work not as instructed in this manual are not covered by the warranty.
- Check that the installation was done properly in accordance with this installation manual upon completion.
- After completing installation, place this installation manual in a plastic pouch and attach it to the side of the water heater, or hand it to the customer to retain for future reference.

Installation must conform with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1 /NFPA54-latest edition.

Noritz America reserves the right to discontinue, or change at any time, the designs and/or specifications of its products without notice.

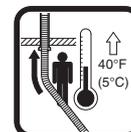
EZ2FVK-2-LT

Rev. 01/17

1. General Information

Property damage, personal injury or death can result if these instructions are not followed. They are a guide for professional installers generally familiar with the installation and maintenance of heating equipment and related vent systems.

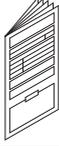
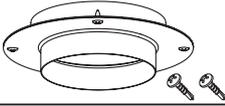
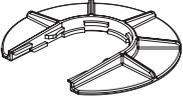
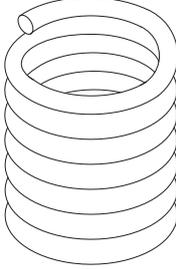
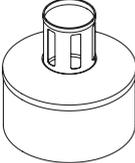
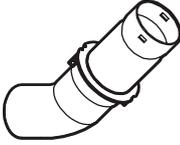
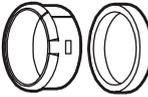
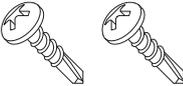
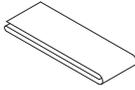
- Flex Vent 2" Kit is designed only for the installation inside of B-Vent as sleeve. Do not use it for other installation method. Also do not use it outdoor.
- Do not use for anything other than designated Tankless Water Heater (including the model manufactured by others).
- Flex Vent 2" Kit can be installed at zero clearance to combustible materials.
- Appliances can be started up immediately after Flex Vent 2" Kit is installed and inspected.
- Flex Vent 2" Kit systems expand and contract slightly during heating cycles and must be installed following included instructions.
- Keep Flex vent greater than 40°F(5°C) during installation. Damage will occur if handled or installed at lower temperatures.
- Information regarding certification of "Flexible vent pipe and connections".



Standard(s)	UL-1738 Standard for Venting Systems ULC-S636-08 Standards for type BH Gas Venting Systems
Product	PP Flexible 2", PP Single Wall Pipe 2"
Brand name	InnoFlue Flex - Centrotherm
Models	IFVL, IFSF, IANS, ISEL, IACE

2. Included Accessories

The following accessories are included.
Check for any missing items before starting installation.

	Part	Shape	Q'ty		Part	Shape	Q'ty
Bag "Step-1"	Flex Feeder		1	Installation Manual (This document)		1	
	Base Junction Support • Clamp x3		1				
	Base Junction Adapter Set		1	EZTR 35 Feet Start Up Guide		1	
Bag "Step-2"	Top Flex support		1	Flex Pipe 2" approximately 35 feet		1	
	Universal Rain Cap		1				
Bag "Step-3"	Rigid 45 Elbow Set • Coupler Fitting • Connector Ring • 45 degree PP elbow		1	Flex Sleeve		1	
	Coupler O-Ring Coupler Retainer		1				
	O-ring lubricant		1				
	Fastening Screws		2				
	Aluminum tape		1				

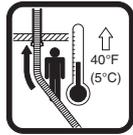
3. General Safety

DANGER

Checkup

- If similar flexible vent has already been installed, it must be replaced with this designated new Flex Vent Kit.

WARNING

- Flex Vent 2" Kit is designed only for installation inside of B-Vent wall. Do not use it for other installation method. Also do not use it outdoor.
 - Only approved for use with the designated B-Vent manufactures.
 - If the Rain Cap and B-Vent itself are damaged by corrosion, it must be replaced with new ones.
 - Before installation, make sure no nails or screws have penetrated the inner B-Vent wall where the flexible vent will be installed. Those obstructions may damage the flexible vent and may result in fires, property damage or exposure to Carbon Monoxide.
 - Do not reuse the flexible vent once it has been installed, removal of the vent may have caused damage to the flexible vent.
 - Keep Flex vent at a temperature greater than 40°F(5°C).
Material temperature is not less than 40°F(5°C) during installation.
Damage will occur if handled or installed at lower temperatures.
- 
- If the temperature is below 40°F(5°C) it's recommended that you store the Flex Vent in a warm room or car for 30 minutes. If you find that the Flex Vent is still stiff, you may need to use a hair dryer and warm both ends of the vent to prevent breakage.
 - Make sure components are kept under these following conditions.
 - ※ Clean and dry place.
 - ※ Above 40°F(5°C)
 - ※ Keep out of direct sunlight.
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- Minimum bend radius should be more than 7 inch.
 - Handle the flexible vent carefully.
Dropping, Crushing and Stacking may cause damage, and may result in fires, property damage or exposure to Carbon Monoxide.
 - Flex Vent 2" Kit cannot be painted.
 - Avoid places where open flame are common, such as those where gasoline, benzene and adhesives are handled, or places in which corrosive gases (ammonia, chlorine, sulfur, ethylene compounds, acids) are present.
 - Avoid installation in places where dust or debris will accumulate.
Dust may block the air-supply opening, causing the performance of the device fan to drop and incomplete combustion may occur as a result.
 - Avoid installation in places where special chemical agents (e.g., hair spray or spray detergent) are used.
 - For your safety, do not attempt to work on a rooftop until safety precautions have been identified and proper fall safety measures have been taken, including the use of ladders or stairways, and personal protective equipment (PPE).
 - Installation in windy or wet conditions require additional precautions. Follow local safety regulations.

 **CAUTION**

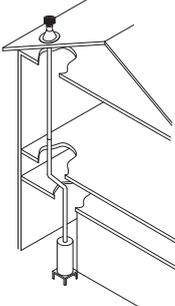
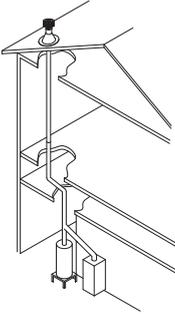
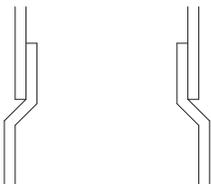
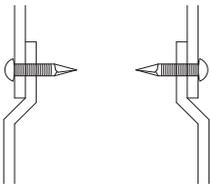
- Check for any damage to components that may have occurred during transportation before installation.
- Consult with the customer regarding the location of installation.
- Do not install this Flex Vent 2" Kit in a place where it may be subject to falling objects, such as under shelves.
- Flex Vent 2" Kit vent systems expand and contract slightly during heating cycles and must be installed according to supplied instructions.

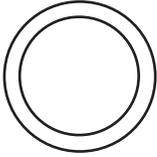
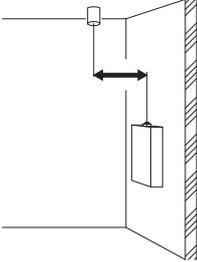
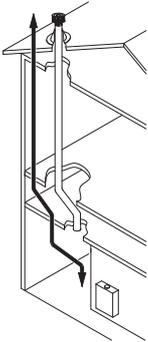
4. Before Installation (Check the condition of installation site)

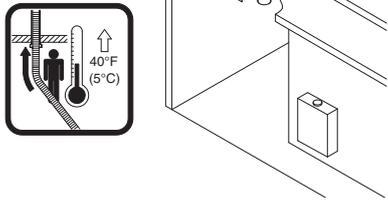
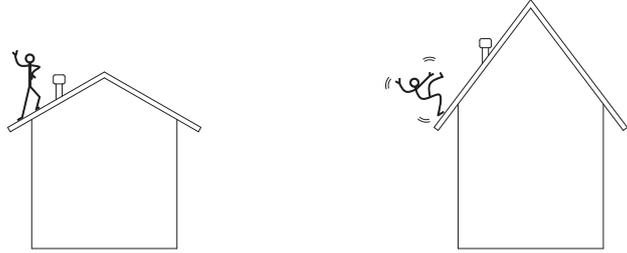
Check that the following items are "(OK) Can be installed" before installation.
 If all items are "(OK) Can be installed", proceed to the next step, "6. Installation".

PAUSE FOR A MOMENT

Verify if the installation of a rain cap of different appearance will conflict with Home Owners Associations rules to prevent future issues.
 If NOT, contact customer service at 1-866-766-7489 to purchase optional installation kit for the existing Rain Cap.

Check point	Can be installed(OK)	Cannot be installed(NG)	Mark " ✓ " if each condition is matched.
1. Vent system.	Vent system is used by 1 appliance only	Common vent	
			
2. No Screws or nails protruding within the B-Vent	No	Yes (If Yes to protruding screws or nails, flex vent cannot be installed.)	
			

Check point	Can be installed(OK)	Cannot be installed(NG)	Mark "✓" if each condition is matched.
3.B-Vent shape	Round	Oval	
			
4.B-Vent diameter	3" or 4"	5" or larger	
5.Horizontal distance between B-Vent connection from the ceiling and the unit is no more than 5ft.	5ft or less	More than 5 ft	
			
6.Vent length from the top of unit to the rain cap.	35 feet or less	More than 35 feet	
			

Check point	Can be installed(OK)	Cannot be installed(NG)	Mark "✓" if each condition is matched.
7. Ambient temperature where unit is installed.	More than 40°F (5°C)	40°F (5°C) or less *Refer to page 4	
			
8. Accessibility to Rain Cap	Can access Rain Cap	Cannot access Rain Cap(High pitch etc.)	
			

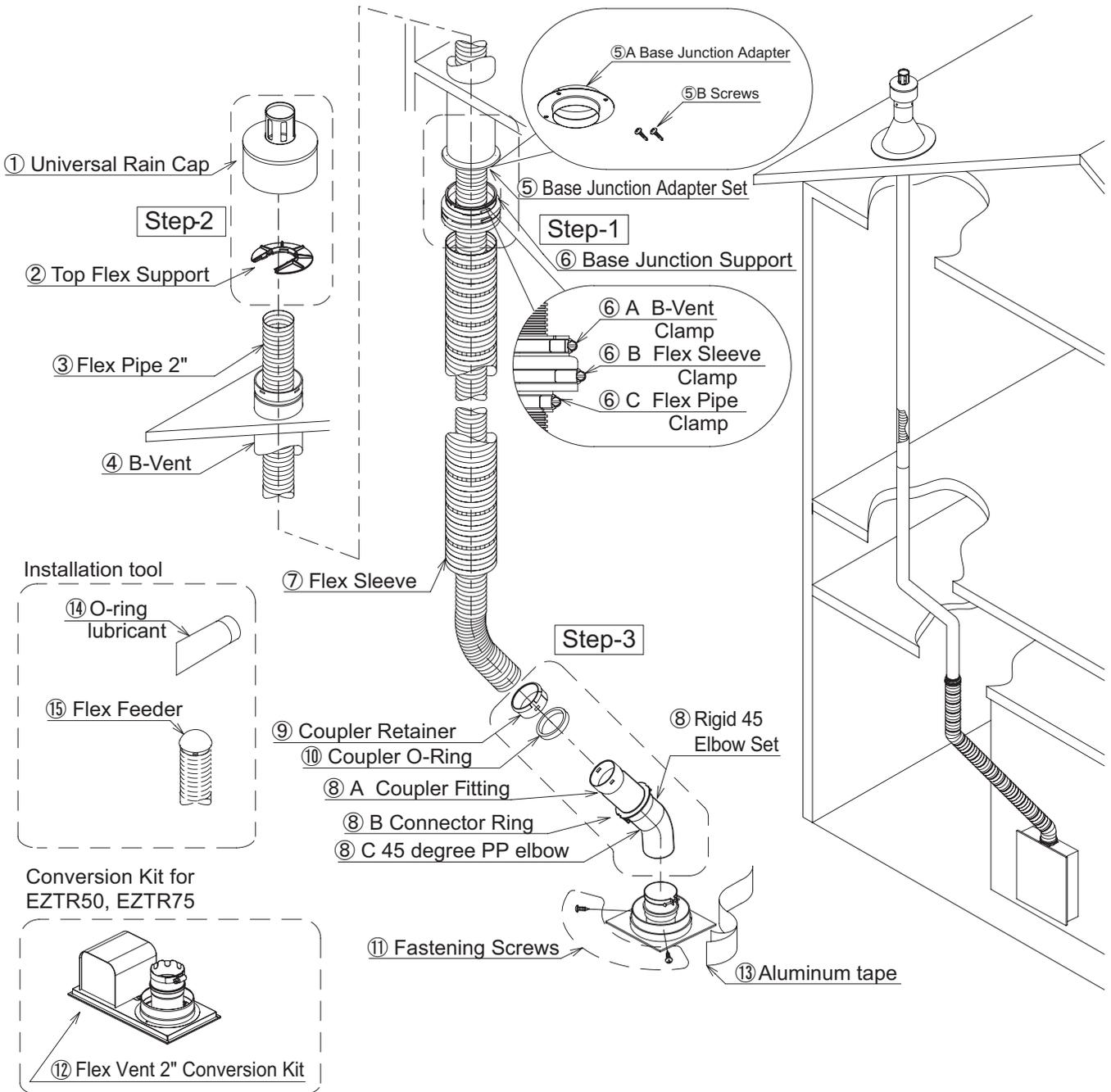
5. Sample of the Venting system

- The pictured image of the system consisted of this Vent Kit and the explanation of the name of the components

The image of the Flex Vent 2" Kit system is as listed below.

Only when the venting components and the water heater are installed correctly, the customer can use the hot water correctly and safely.

The numbers before the names of the components are corresponding to the same component names as in step "6. Installation".



6. Installation

In the installation, some work will be done above the roof, extra care and fall protection may be required. Take extra care and responsibility to do the installation as safely as possible.

WARNING :

- For your safety, do not attempt to work on a rooftop until safety precautions have been identified and taken including without limitation fall protection measures, ladders or stairways, and personal protective equipment(PPE).
- Installation in windy or wet conditions require additional precautions. Follow local safety regulations.



Be sure to do

【Maximum Vent lengths】

- Max. Straight Vent Length: 35'(10.5m).
- Max. allowable 45 degree elbows(B-Vent) are 2 elbows.
 - * Not including "Ⓢ C 45 degree PP elbow"
 - * No 90° elbows(B-Vent)



Be sure to do

- Only when the all conditions of "4. Before Installation (Check the condition of installation)" are satisfied, proceed with the installation, following the below mentioned installation procedure.

2.Tools necessary for the installation

①Screwdriver	②Cutting tool	③Tape Measure	④Marker
<ul style="list-style-type: none"> •Phillips head •Flat head •Box wrench(5/16") 	<ul style="list-style-type: none"> •For cutting the flexible vent. <ul style="list-style-type: none"> •PVC Cutter •Box Cutter etc. ※Hand saws are not approved for cutting. 		

3.Installation Procedure

Follow the below motioned procedure and install correctly. Specially, be sure to check each 【Point】 carefully. If not installed correctly, the water heater will not function properly.



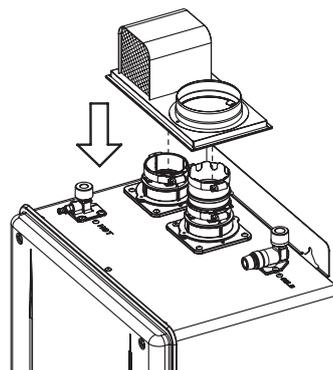
Be sure to do

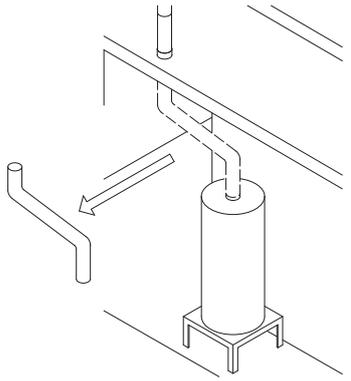
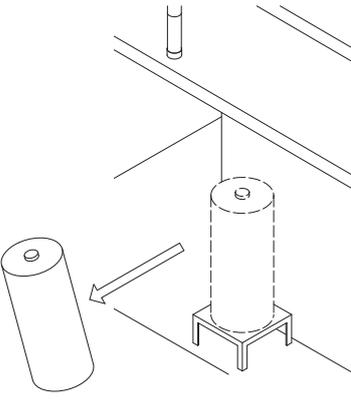
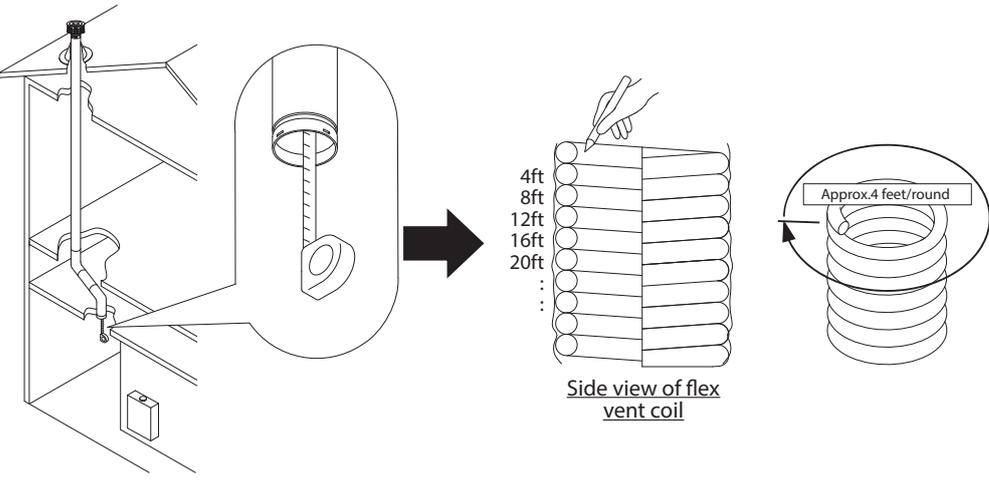
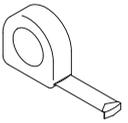
- Only use the parts provided in the package for construction. Using parts other than the ones provided may cause the product to be assembled incorrectly.

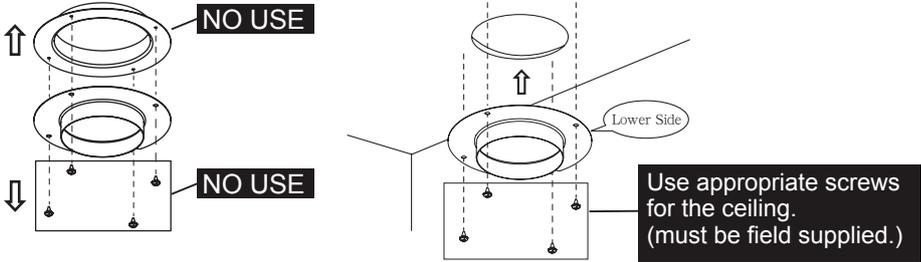
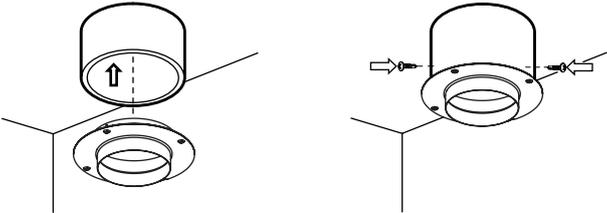
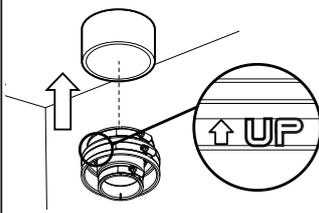
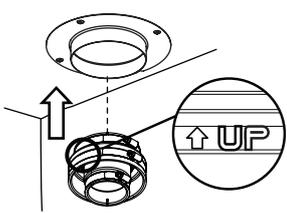
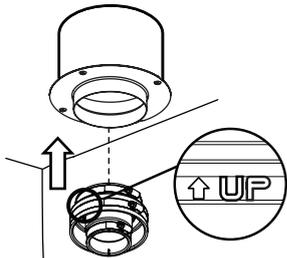
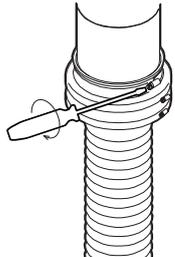
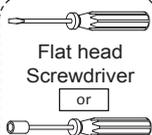
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[EZTR75] EZ111DV(GQ-C3259WX-FF US)**

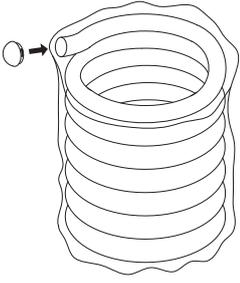
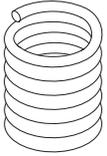
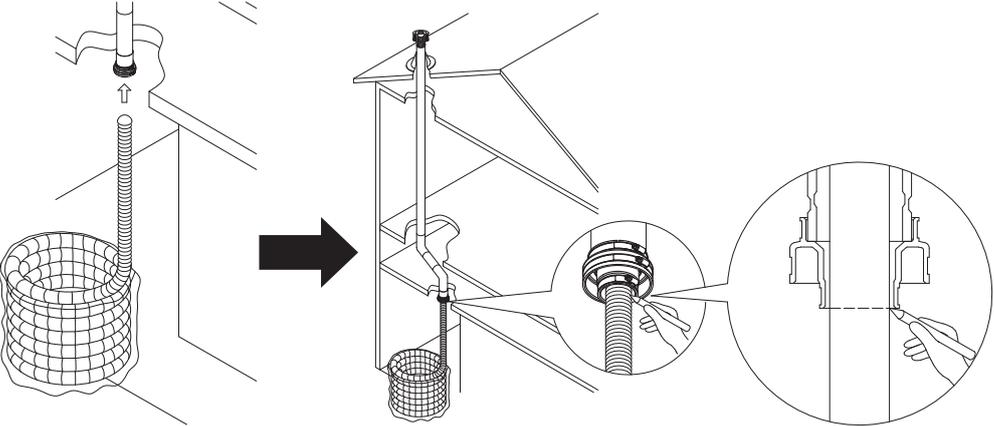
Follow the instruction in the Flex Vent 2" Conversion Kit Installation Manual to install the Flex Vent 2" Conversion Kit.

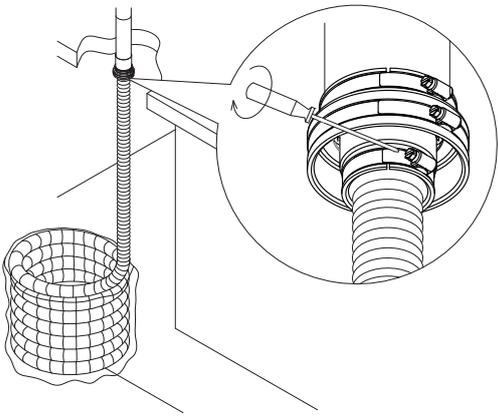
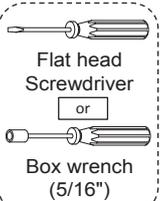
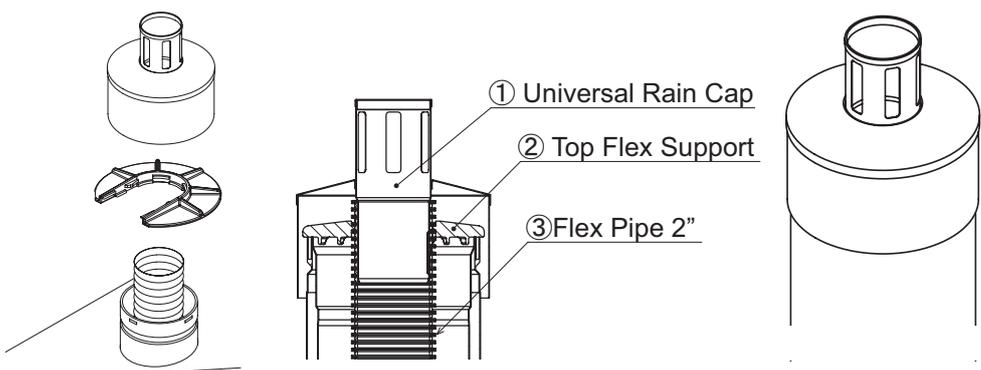
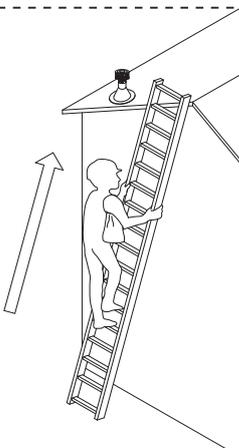
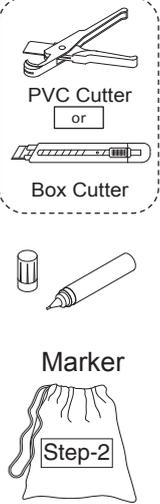
Note : This manual illustrates installation for the NRC663-FSV. Installation for other models may vary slightly.

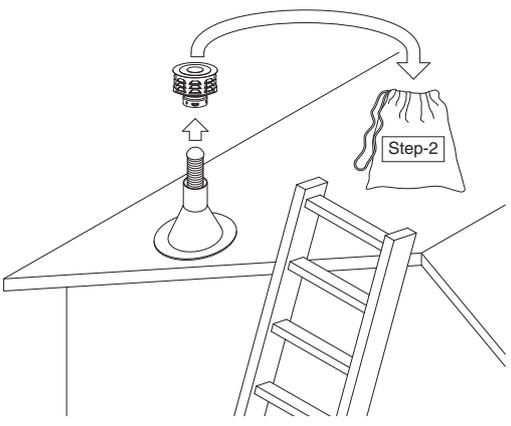
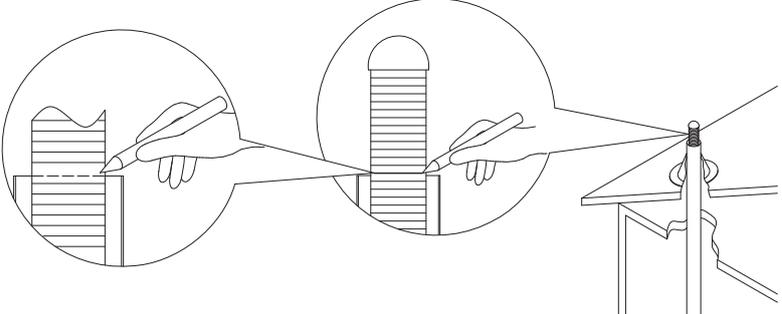
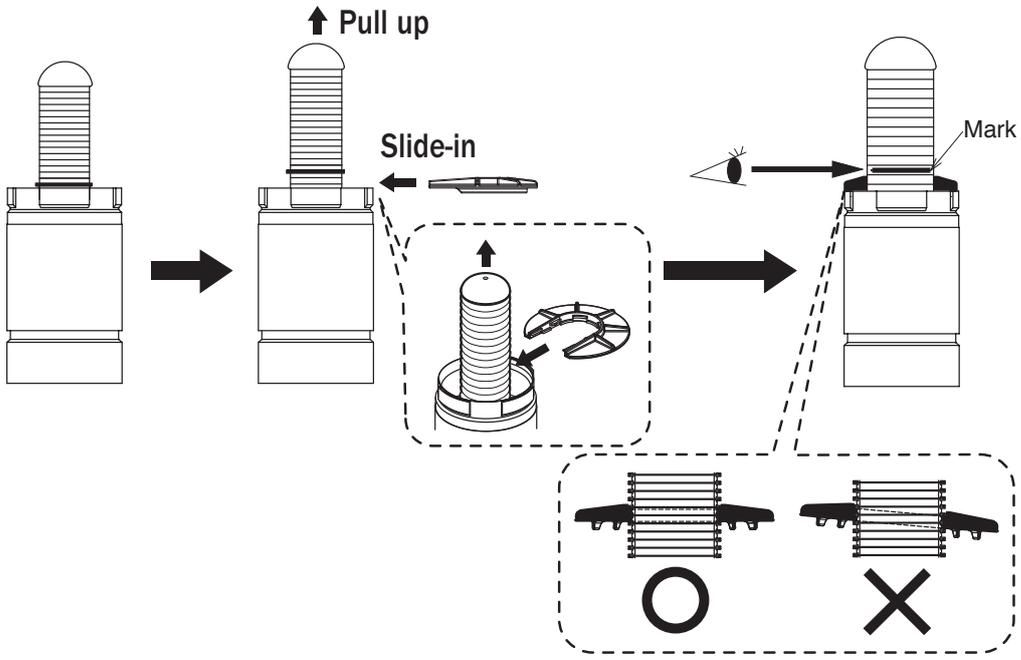


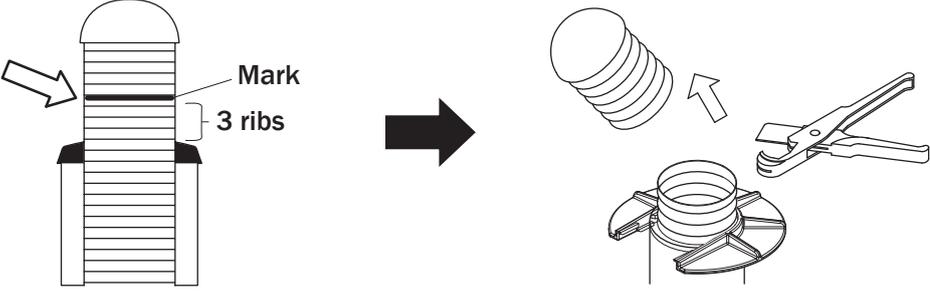
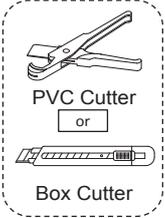
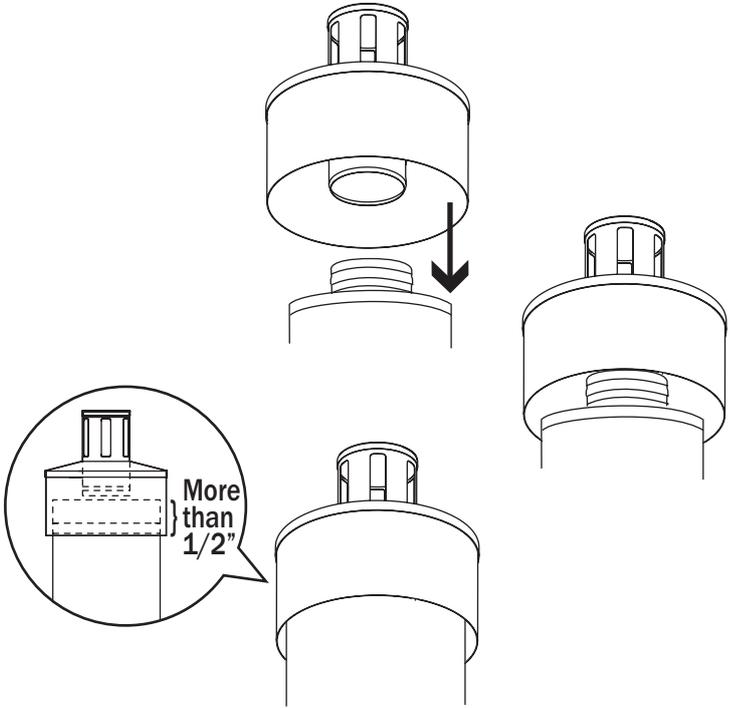
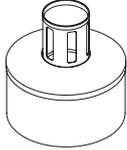
Step	Installation Procedure(ex. @Garage)	Necessary Tool
Step-1 (Work where equipment is installed)	1 Remove the B-Vent between bottom of ceiling and tank type water heater. 	
	2 Drain and remove the tank type water heater. 	
	3 Use a measuring tape to measure from the bottom of the "④B-Vent" to the roof termination to get the total length of the vent run. Transfer that measurement to the "③Flex Pipe 2"" by making a mark from inner side to help you know when you have reached the roof termination. ※The Measured vent run length will be used in procedure No. 23 later. Make a note of the Vent Run Length. 	 Marker  Tape Measure

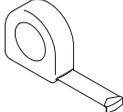
Step	Installation Procedure(ex. @Garage)	Necessary Tool
4	<p>Grab Bag Labeled "Step-1" for this step of the installation.</p> <p>Measure "④B-Vent" Diameter</p> <p>※Installation for 3" or 4" where "④B-Vent" does not come down through the ceiling. Remove the four screws from "⑤A Base Junction Adapter" Place and center "⑤A Base Junction Adapter" (Lower side) over the opening of ceiling.</p> <p>Attach "⑤A Base Junction Adapter" with four screws (must be field supplied) to the ceiling.</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>! Be sure to do If strength of the ceiling is not sufficient (i.e. plasterboard), take appropriate measures to ensure safe installation.</p> </div> <p>※Installation for 4" "④B-Vent" Insert "⑤A. Base Junction Adapter" onto the 4" "④B-Vent" Attach "⑤A. Base Junction Adapter" with two "⑤B Screws" from outer pipe of "④B-Vent".</p> 	 <p>Phillips Head Screwdriver</p>  <p>⑤A Base Junction Adapter</p>  <p>⑤B Screws</p>
5	<p>Insert "⑥Base Junction Support" to the bottom of "④B-Vent" that is sticking out from the ceiling or "⑤A. Base Junction Adapter". Firmly tighten "⑥Base Junction Support" with "⑥A. B-Vent Clamp", be careful not to over tighten, this may distort the rubber. Check to see if it secure by pulling by hand.</p> <p>※The tightening torque should be between 7 and 10 in lb. ※Do not apply "⑭O-ring lubricant" to "⑥Base Junction Support"</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><u>Installation for 3" B-Vent</u></p>  </div> <div style="text-align: center;"> <p><u>Installation for no B-Vent Protruding</u></p>  </div> <div style="text-align: center;"> <p><u>Installation for 4" B-Vent</u></p>  </div> </div> 	<div style="border: 1px dashed black; padding: 5px; margin-bottom: 10px;">  <p>Flat head Screwdriver or Box wrench (5/16")</p> </div>  <p>⑥Base Junction Support</p>

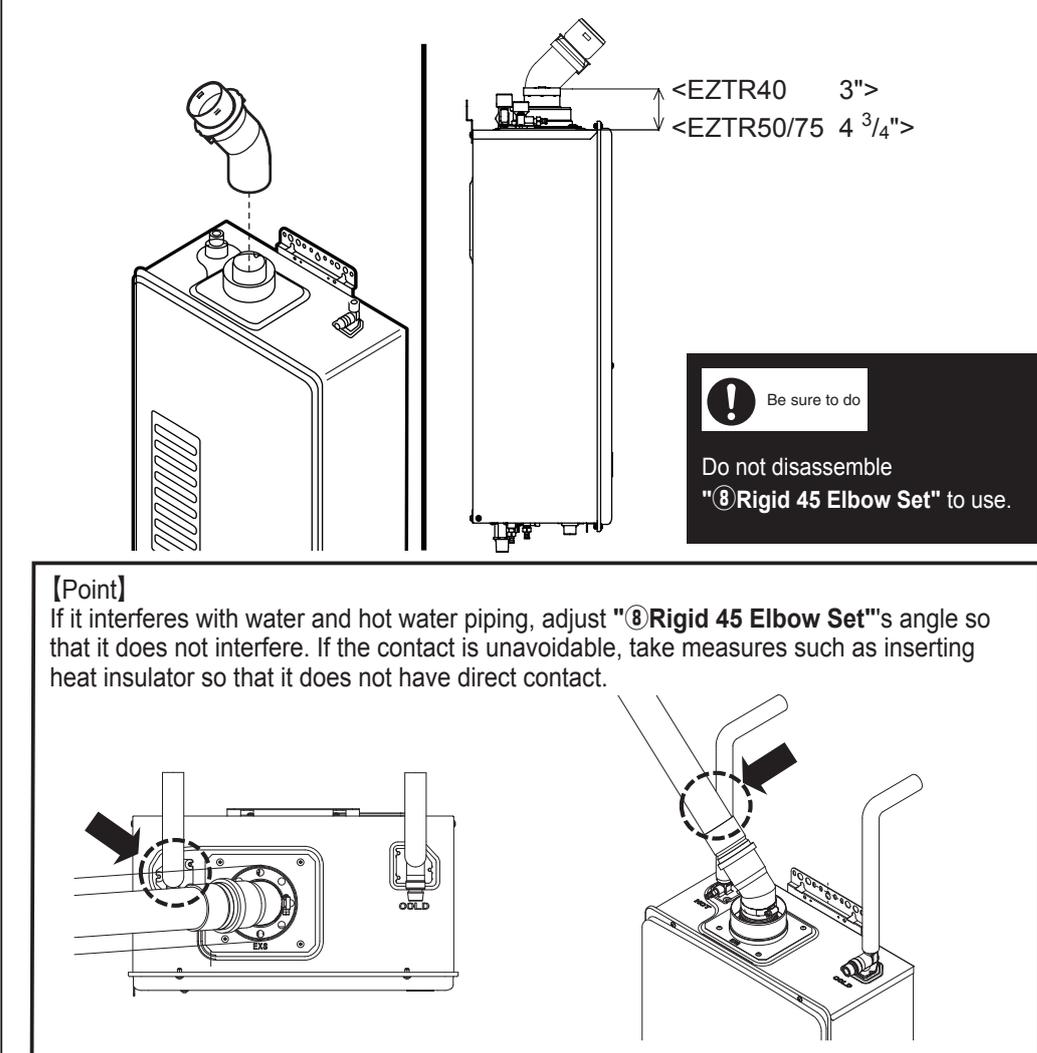
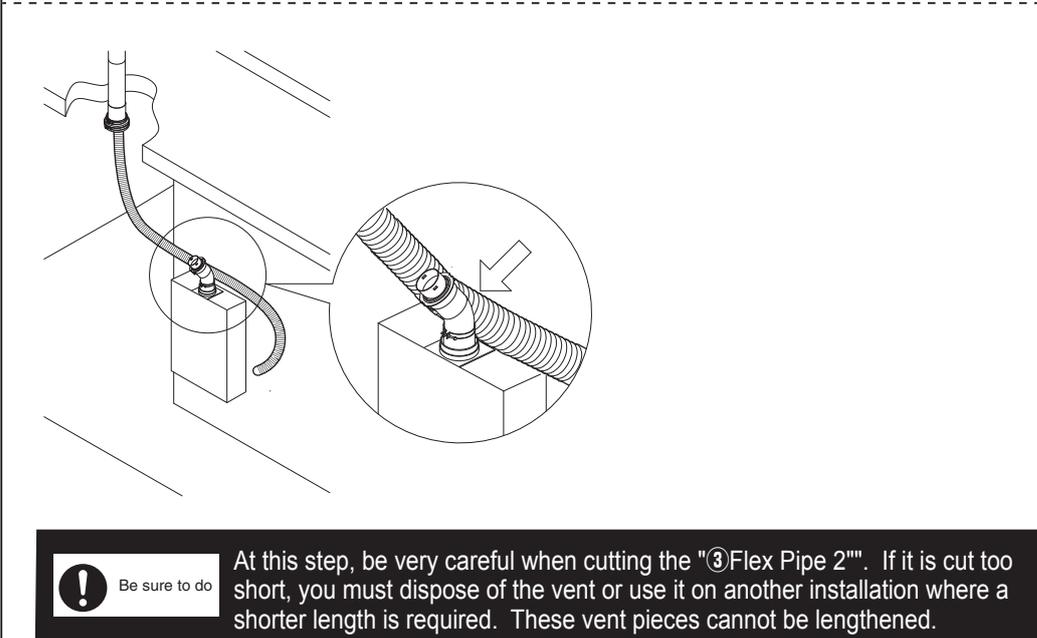
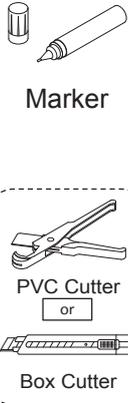
Step	Installation Procedure(ex. @Garage)	Necessary Tool
Step-1 (Work where equipment is installed)	<p>6 Push the "③Flex Pipe 2" into the tip of the "⑬Flex Feeder".</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>! Be sure to do Install the "⑬Flex Feeder" always, even in the case of straight B-Vent runs. ("⑬Flex Feeder" prevents debris from falling into the "③Flex Pipe 2".)</p> </div>	 <p>③Flex Pipe 2"</p>  <p>⑬Flex Feeder</p>
	<p>7 Insert the "③Flex Pipe 2" into the "⑥Base Junction Support" until you touch the inside of the rain cap on the roof. With the "③Flex Pipe 2" fully inserted into the vent, make a mark at the "⑥Base Junction Support" so you can check for movement during the rest of installation.</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>[Point] Before inserting, try to straighten curl of the tip of "③Flex Pipe 2" as much as possible. However, when doing so, bending radius should be more than 7 inch.</p>  </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>[Point] Continue to push "③Flex Pipe 2" strongly until the end and make sure that it does not stop in the middle.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; background-color: #f0f0f0;"> <p>⊘ Prohibited Do not use the "③Flex Pipe 2" at any jobsite with vent runs longer than 35'. do not join two shorter flex pipes together even if the run is less than 35'.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>! Be sure to do When pushing "③Flex Pipe 2" through the B-Vent, if there is unusual feeling (touching the bump of screw, etc.), do not continue to push in and stop the installation.</p> </div>	 <p>Marker</p>

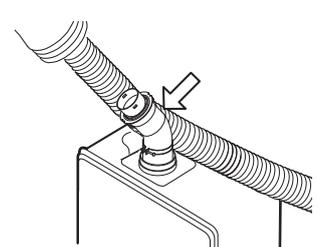
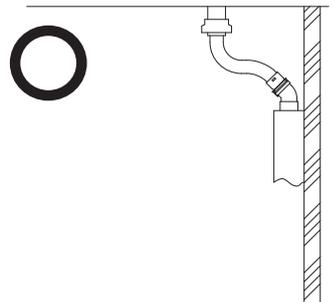
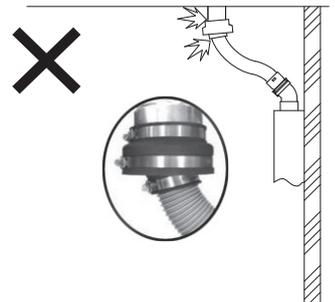
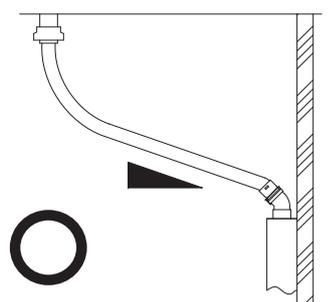
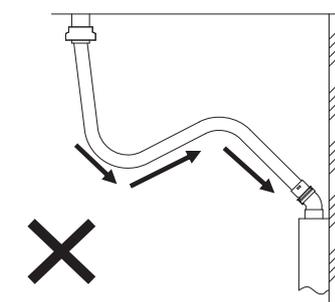
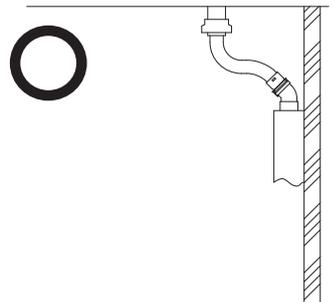
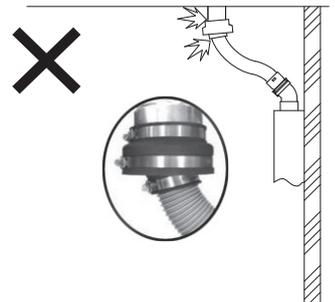
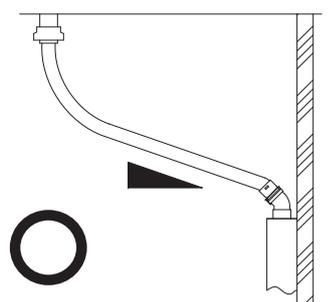
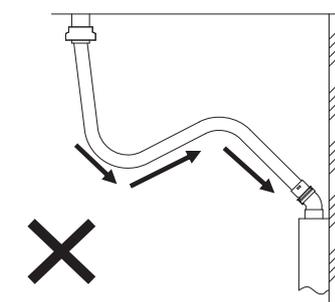
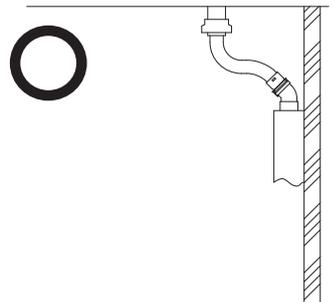
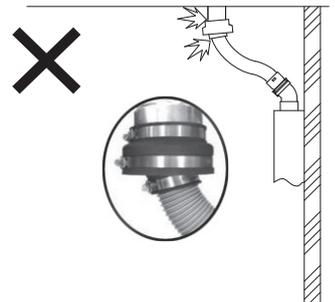
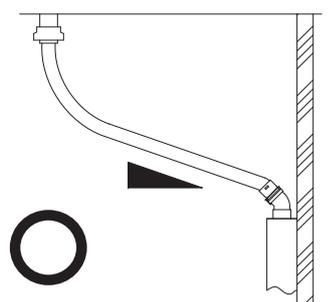
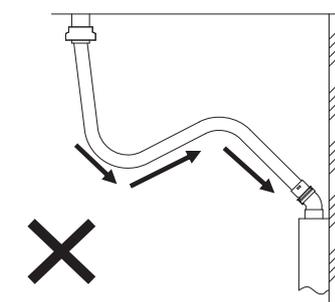
Step	Installation Procedure(ex. @Garage)	Necessary Tool
Step-1 (Work where equipment is installed)	<p>8 Take extra care to ensure that the "③Flex Pipe 2"" does not slip by checking the mark you made on the "③Flex Pipe 2"". Firmly tighten "③Flex Pipe 2"" with "⑥C. Flex Pipe Clamp", but be careful not to over tighten as it may distort the "③Flex Pipe 2"". Check to see if it is firmly secured by pulling it by hand. ※The tightening torque should be between 7 and 10 in lb.</p> 	
Step-2 (Work on rooftop)	<p>※ The assembly image figure for all parts in below Step 2 (Procedure 9 ~ 14) Use this Image to check for correct assembly of the components.</p>  <p>Final drawing in this Step2 (a cross section) Final image in Step 2</p>	
	<p>9 Grab Bag Labeled "Step-2" and necessary tools for this step of the installation. Climb up on the roof and access the Rain Cap.</p>  <div data-bbox="236 1948 1244 2060" style="border: 1px solid black; padding: 5px;"> <p>[Point] When climbing up on the roof, use appropriate fall protection to guard against falls. Make sure that safety comes first at your own risk.</p> </div>	<p>Ladder Wet Towel</p>  <p>Marker Bag"Step-2"</p>

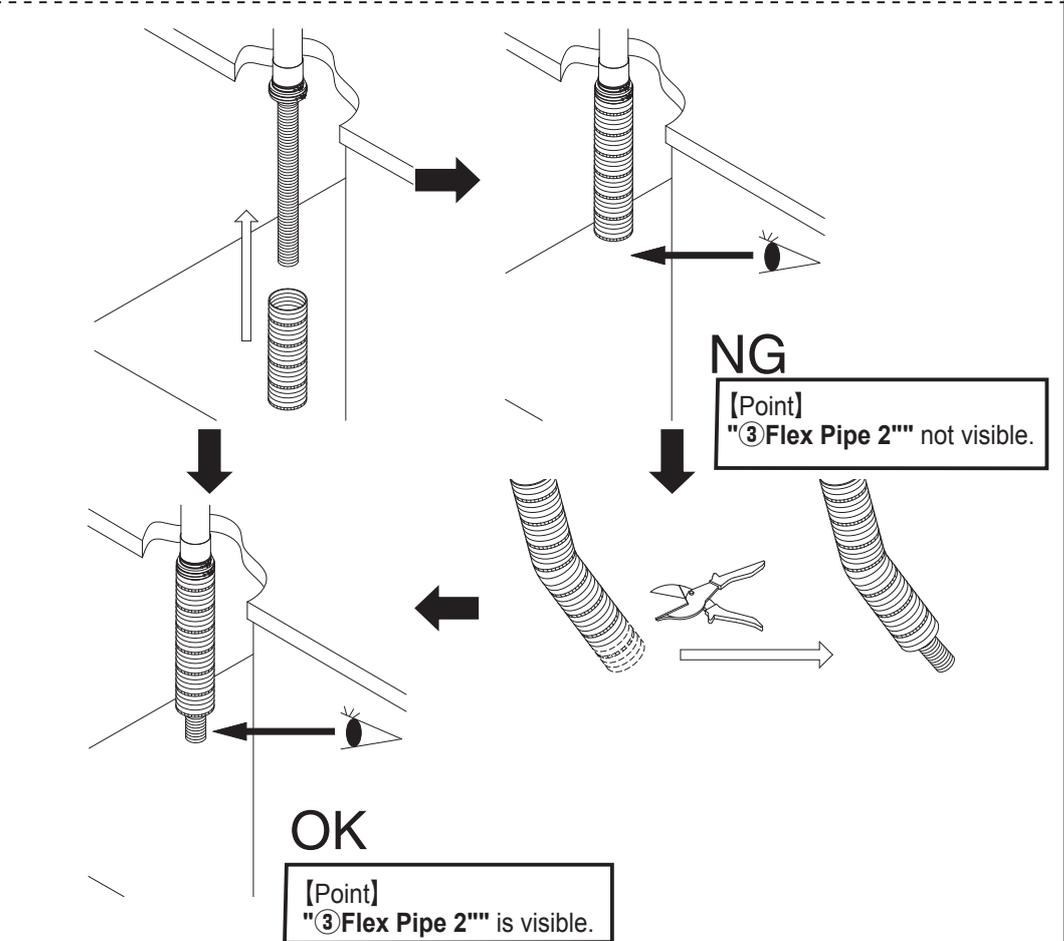
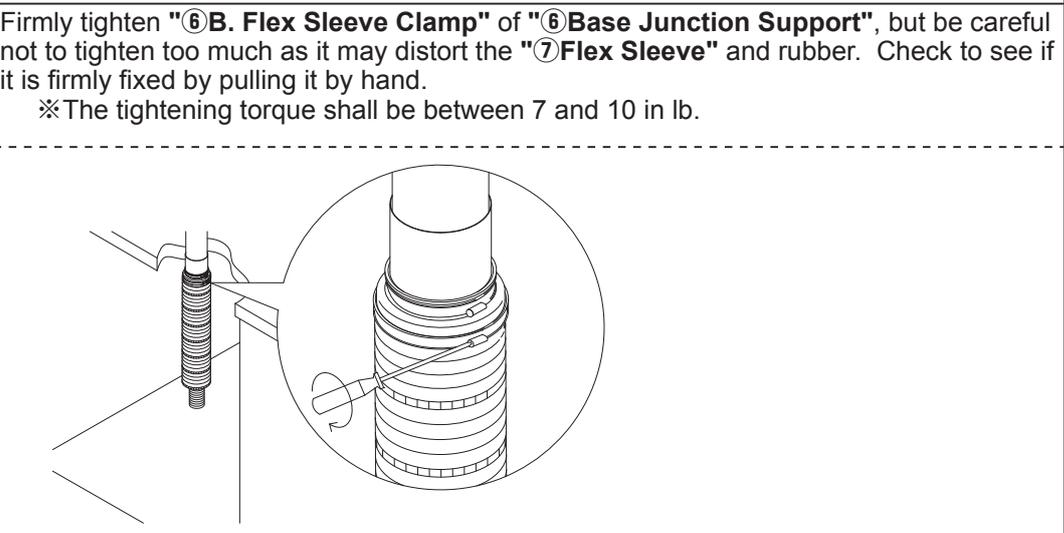
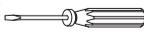
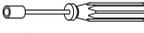
Step	Installation Procedure(ex. @Garage)	Necessary Tool
10	<p>Take off the existing rain cap and place it on the area where it does not fall from the rooftop. ※Make sure the inside surfaces of the "④B-Vent" are clean to ensure a good seal of the parts in this step.</p> 	Wet Towel
11	<p>Use a marker to mark the original position of the "③Flex Pipe 2'", at "④B-Vent"'s upper tip.</p>  <div data-bbox="239 1075 1252 1164" style="background-color: black; color: white; padding: 5px;"> <p>! Be sure to do Mark is very important for the function. Do not skip this step. (Necessary for the next step.)</p> </div>	 Marker
12	<p>Slide-in the "②Top Flex Support" to the "③Flex Pipe 2'".</p>  <div data-bbox="239 1892 1252 1982" style="background-color: black; color: white; padding: 5px;"> <p>! Be sure to do Verify that you can see the mark you made at the top end of the "②Top Flex Support" in the previous step.</p> </div> <div data-bbox="239 1993 1252 2083" style="background-color: black; color: white; padding: 5px;"> <p>! Be sure to do Inert the "②Top Flex Support"'s slit straight into the Flex Pipe groove.</p> </div>	 ②Top Flex support

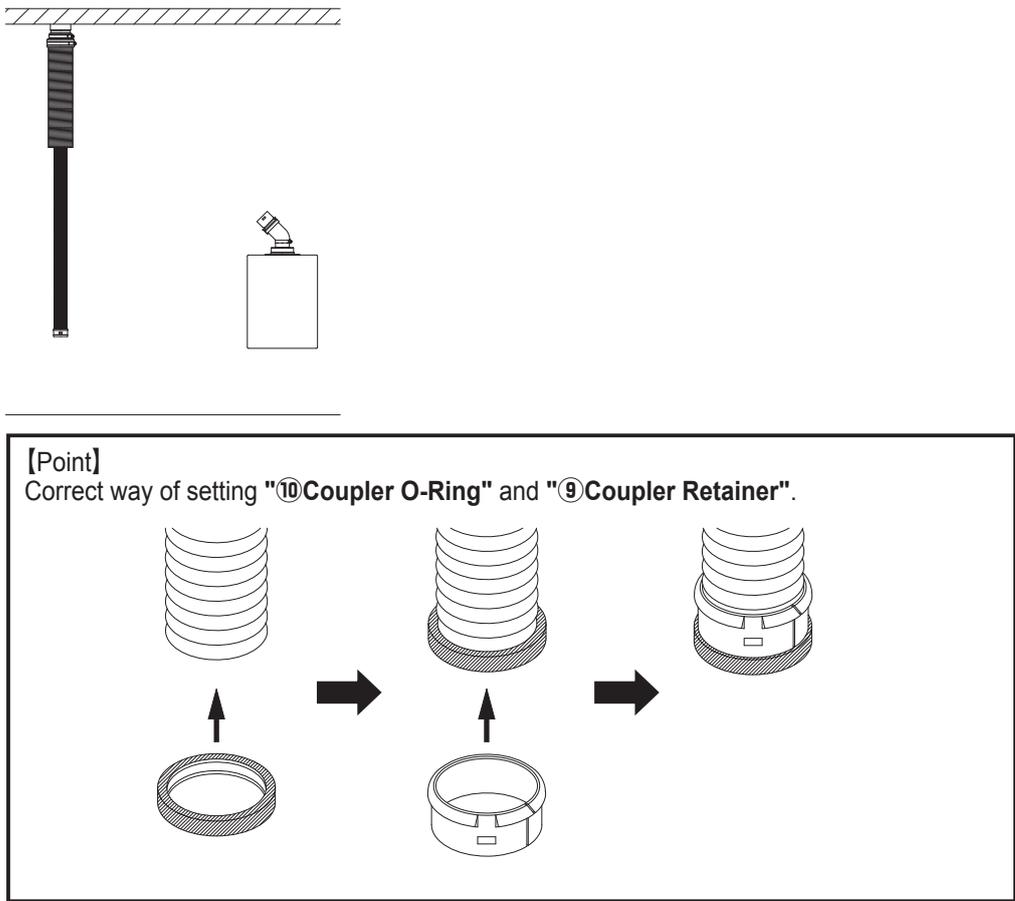
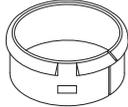
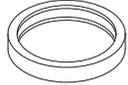
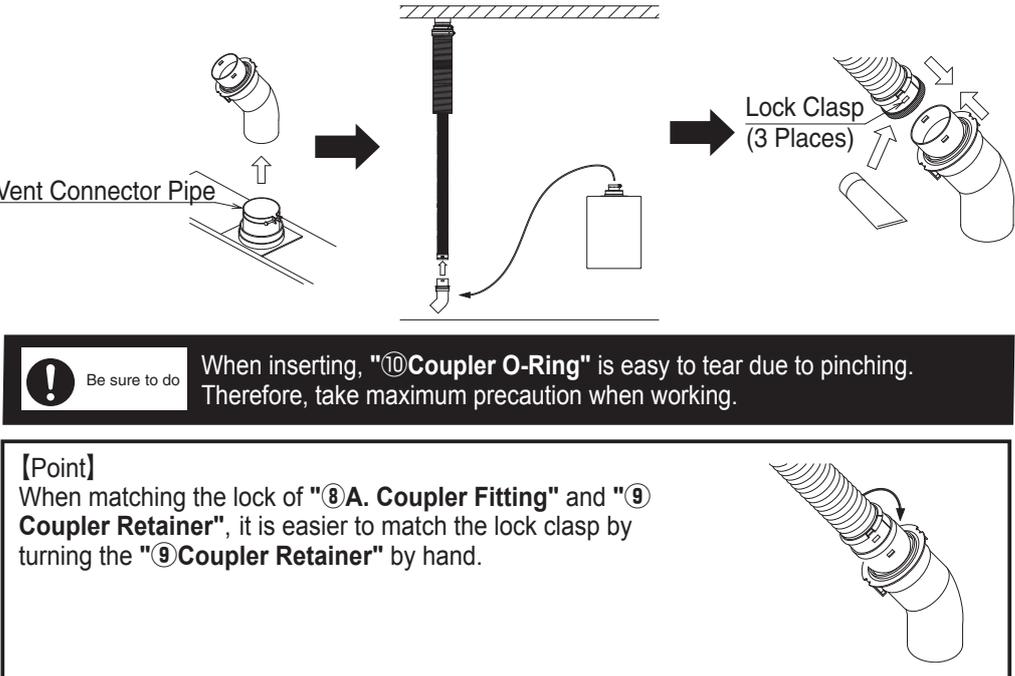
Step	Installation Procedure(ex. @Garage)	Necessary Tool
Step-2 (Work on rooftop)	<p>13 Use a marker to mark the cutting position.</p>  <p> ※All cuts must be made at right angle to the pipe. All field cuts must be deburred. ※Take precaution not to drop debris into "③Flex Pipe 2"". In case debris is dropped, remove from the lower end of the "③Flex Pipe 2"". </p>	 <p>PVC Cutter or Box Cutter</p>
	<p>14 Attach "①Universal Rain Cap"</p>  <p>More than 1/2"</p> <p> ! Be sure to do Completely Insert "①Universal Rain Cap" into the "③Flex Pipe 2"", "①Universal Rain Cap" overlap "④B-Vent" by 1/2". </p>	 <p>①Universal Rain Cap</p>

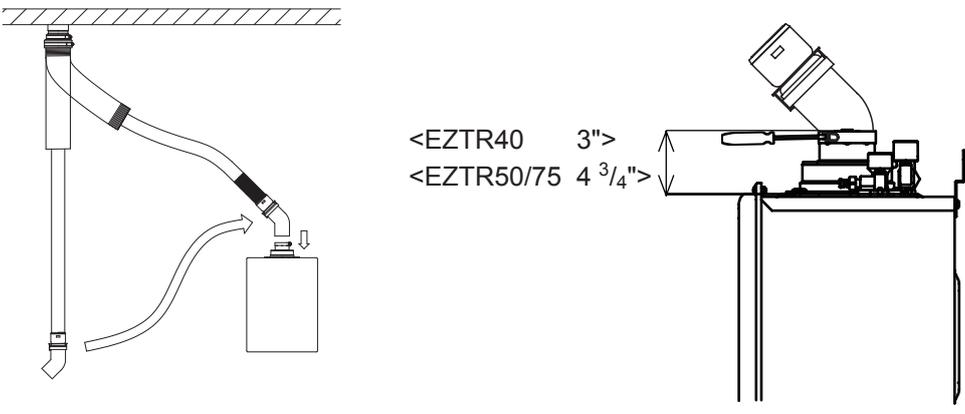
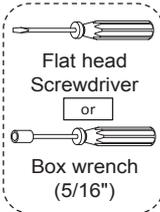
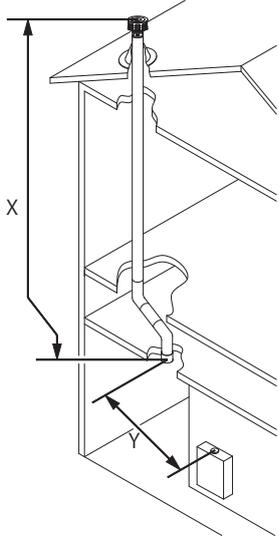
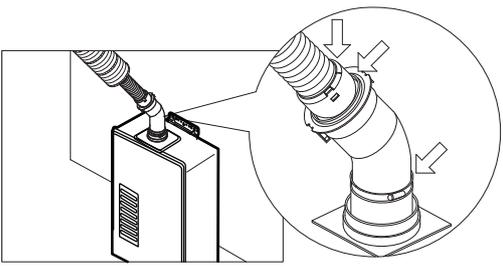
Step	Installation Procedure(ex. @Garage)	Necessary Tool														
Step-3 (Work where equipment is installed)	<p>15 Grab Bag Labeled "Step-3" and necessary tools for this step of the installation. Mount the water heater at the appropriate height according to the chart below, connect the gas, cold and hot water lines, and drain pipes. Follow the equipment's installation manual on how to set the equipment's clearance from combustibles.</p> <p>※The location(height) where equipment can be installed varies by horizontal distance (L) shown below. Follow the below chart and install accordingly.</p> <p>■Equipment installation upper limit height chart by horizontal distance</p> <table border="1" data-bbox="347 376 1257 443"> <tr> <td>Horizontal distance (L)</td> <td>0'</td> <td>~1'</td> <td>~2'</td> <td>~3'</td> <td>~4'</td> <td>~5'</td> </tr> <tr> <td>More than height(H)</td> <td>2'</td> <td>2'</td> <td>2'</td> <td>2.6'</td> <td>3'</td> <td>3'</td> </tr> </table> <div data-bbox="347 474 1276 929"> </div> <div data-bbox="268 952 1276 1057" style="border: 1px solid black; padding: 5px;"> <p>[Point] <u>Before you start the plumbing, imagine where the "③Flex Pipe 2'" will be ran and account for any clearance needed.</u></p> </div> <div data-bbox="268 1064 1276 1191" style="border: 1px solid black; padding: 5px;"> <p>[Point] <u>Always follow the above chart and determine the equipment's installation location (height).</u> →If it is not followed, there will be nonconformance such as large tension to the final connecting area of the vent pipe and/or can't connect.</p> </div>	Horizontal distance (L)	0'	~1'	~2'	~3'	~4'	~5'	More than height(H)	2'	2'	2'	2.6'	3'	3'	 <p>Tape measure</p> 
Horizontal distance (L)	0'	~1'	~2'	~3'	~4'	~5'										
More than height(H)	2'	2'	2'	2.6'	3'	3'										

Step	Installation Procedure(ex. @Garage)	Necessary Tool
Step-3 (Work where equipment is installed)	<p>16 Insert "⑧Rigid 45 Elbow Set" to the equipment's vent connector pipe. When inserting "⑧Rigid 45 Elbow Set", there is tension when it passes through the o-ring within the equipment's vent connector pipe. Continue to insert "⑧Rigid 45 Elbow Set" until it is firmly seated all the way into the base of the vent connector pipe.</p> <hr/>  <p><EZTR40 3"> <EZTR50/75 4 3/4"></p> <p>! Be sure to do Do not disassemble "⑧Rigid 45 Elbow Set" to use.</p> <p>[Point] If it interferes with water and hot water piping, adjust "⑧Rigid 45 Elbow Set"'s angle so that it does not interfere. If the contact is unavoidable, take measures such as inserting heat insulator so that it does not have direct contact.</p>	 <p>⑧Rigid 45 Elbow Set</p>
	<p>17 Follow the next [Point] and cut the "③Flex Pipe 2'" into appropriate length.</p> <hr/>  <p>! Be sure to do At this step, be very careful when cutting the "③Flex Pipe 2'". If it is cut too short, you must dispose of the vent or use it on another installation where a shorter length is required. These vent pieces cannot be lengthened.</p>	 <p>Marker</p> <p>PVC Cutter or Box Cutter</p>

Step	Installation Procedure(ex. @Garage)	Necessary Tool											
Step-3 (Work where equipment is installed)	<p>[Point] When performing the final cut, make the first cut of the "③Flex Pipe 2" longer to avoid cutting the "③Flex Pipe 2" too short. It is easy to determine the length by following the [Point] below and matching the dimension using the below figure.</p> 												
	<p>[Point] When determining the cut length, take note on the 2 points listed below.</p> <table border="1" data-bbox="343 705 1173 1848"> <tr> <td colspan="2" data-bbox="343 705 1173 795"> <p>[Point①] Determine the proper length not giving too much tension to both "⑥ Base Junction Support" and "⑧ Rigid 45 Elbow Set".</p> </td> </tr> <tr> <td data-bbox="343 795 758 851"> <p>[Correct installation]</p> </td> <td data-bbox="758 795 1173 851"> <p>[Incorrect installation]</p> </td> </tr> <tr> <td data-bbox="343 851 758 1288">  </td> <td data-bbox="758 851 1173 1288">  <p>When the vent pipe is too short, there will be tension to those parts.</p> </td> </tr> <tr> <td colspan="2" data-bbox="343 1288 1173 1355"> <p>[Point②] Be careful not make trap configuration of "③Flex pipe 2".</p> </td> </tr> <tr> <td data-bbox="343 1355 758 1411"> <p>[Correct installation]</p> </td> <td data-bbox="758 1355 1173 1411"> <p>[Incorrect installation]</p> </td> </tr> <tr> <td data-bbox="343 1411 758 1848">  </td> <td data-bbox="758 1411 1173 1848">  <p>In trap installation, moisture is trapped inside the vent pipe and the exhaust can't be vented.</p> </td> </tr> </table>	<p>[Point①] Determine the proper length not giving too much tension to both "⑥ Base Junction Support" and "⑧ Rigid 45 Elbow Set".</p>		<p>[Correct installation]</p>	<p>[Incorrect installation]</p>		 <p>When the vent pipe is too short, there will be tension to those parts.</p>	<p>[Point②] Be careful not make trap configuration of "③Flex pipe 2".</p>		<p>[Correct installation]</p>	<p>[Incorrect installation]</p>		 <p>In trap installation, moisture is trapped inside the vent pipe and the exhaust can't be vented.</p>
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<p>[Correct installation]</p>	<p>[Incorrect installation]</p>												
	 <p>In trap installation, moisture is trapped inside the vent pipe and the exhaust can't be vented.</p>												

Step	Installation Procedure(ex. @Garage)	Necessary Tool
Step-3 (Work where equipment is installed)	<p>18 Pull "⑦Flex Sleeve" over "③Flex Pipe 2" under the ceiling. Then, push into the bottom of "⑥Base Junction Support". And check that "③Flex Pipe 2" is sticking out from "⑦Flex Sleeve". (If it is not sticking out, cut "⑦Flex Sleeve" until "③Flex Pipe 2" sticks out.)</p>  <p style="text-align: center;">OK [Point] "③Flex Pipe 2" is visible.</p> <p style="text-align: center;">NG [Point] "③Flex Pipe 2" not visible.</p> <p>※ Do not extend the "⑦Flex Sleeve" if it needs to be cut, it should be cut while in its compressed state.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>⚠ WARNING</p> <p>Pay attention not to get injured from the sharp edge of "⑦Flex Sleeve".</p> </div>	 <p>⑦Flex Sleeve</p>
	<p>19 Firmly tighten "⑥B. Flex Sleeve Clamp" of "⑥Base Junction Support", but be careful not to tighten too much as it may distort the "⑦Flex Sleeve" and rubber. Check to see if it is firmly fixed by pulling it by hand. ※The tightening torque shall be between 7 and 10 in lb.</p> 	<div style="border: 1px dashed black; padding: 5px; text-align: center;">  <p>Flat head Screwdriver</p> <p>or</p>  <p>Box wrench (5/16")</p> </div>

Step	Installation Procedure(ex. @Garage)	Necessary Tool
Step-3 (Work where equipment is installed)	<p>20 See below chart and set "⑩Coupler O-Ring" and "⑨Coupler Retainer" onto the tip of "③Flex Pipe" in the correct direction.</p>  <p>[Point] Correct way of setting "⑩Coupler O-Ring" and "⑨Coupler Retainer".</p>	 <p>⑨ Coupler Retainer</p>  <p>⑩ Coupler O-Ring</p>
	<p>21 Pull out assembled "⑧Rigid 45 Elbow Set", which are tentatively locked to the equipment's vent connector pipe. Connect by matching pulled out assembly and 3 lock clasps of "⑨Coupler Retainer", which was set during the previous process. ※ Prior to connecting, make sure to apply "⑭O-ring lubricant" to "⑩Coupler O-Ring".</p>  <p>Vent Connector Pipe</p> <p>Lock Clasp (3 Places)</p> <p>! Be sure to do When inserting, "⑩Coupler O-Ring" is easy to tear due to pinching. Therefore, take maximum precaution when working.</p> <p>[Point] When matching the lock of "⑧A. Coupler Fitting" and "⑨ Coupler Retainer", it is easier to match the lock clasp by turning the "⑨Coupler Retainer" by hand.</p>	 <p>⑧ Rigid 45 Elbow Set</p>  <p>⑭ O-ring lubricant</p>

Step	Installation Procedure(ex. @Garage)	Necessary Tool
Step-3 (Work where equipment is installed)	<p>22 Attach "⑧Rigid 45 Elbow Set" assembly back onto the unit and secure. When inserting "⑧Rigid 45 Elbow Set", there is tension when it passes through the o-ring within the equipment's vent connector pipe. Continue to insert "⑧Rigid 45 Elbow Set" until it reaches the all the way to the base of the equipment vent connector pipe. Check to see if it is firmly fixed by pulling it by hand. ※The tightening torque shall be between 7 and 10 in lb.</p>  <p><EZTR40 3"> <EZTR50/75 4 3/4"></p>	 <p>Flat head Screwdriver or Box wrench (5/16")</p>
	<p>23 Refer to the calculated total vent length, using the measured length in step-1, procedure No.3 in addition to the distance from the water heater. ※Calculate the total vent length to determine the dip switch setting. Vent length = X "total length of B-Vent (measured in procedure No.3)" + Y "the distance from the water heater"</p> 	
27	Depending on the vent length, set the equipment (Dip switch setting). ※Follow the equipment's installation manual on how to set the equipment's vent length.	
28	Test run the water heater and check for any kind exhaust gas leaks in below areas. If there are no leaks of any kind, continue to the next step.	 <div data-bbox="798 1758 1260 1982" style="border: 1px solid black; padding: 5px;"> <p>⚠ WARNING</p> <p>CARBON MONOXIDE POISONING Failure to properly seal the vent system could cause flue products to enter the living space</p> </div>

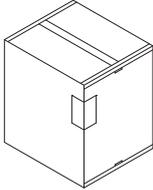
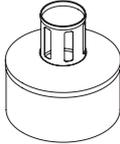
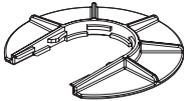
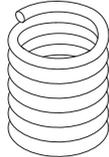
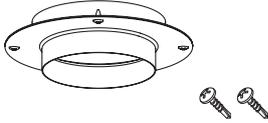
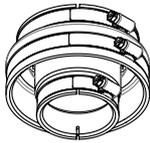
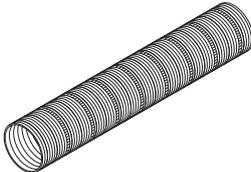
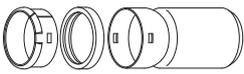
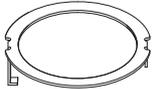
Step	Installation Procedure(ex. @Garage)	Necessary Tool
Step-3 (Work where equipment is installed)	<p>26 Extend the lower end of "⑦Flex Sleeve" to the sleeve clamp connector of the upper portion of equipment. Then secure with "2×⑪Fastening Screws", and apply "⑬Aluminum tape" covering the connecting part. Make sure that it is firmly fixed by pulling by hand. ※Do not stretch the "⑦Flex Sleeve" where the screws are secured, it will weaken the point where the screws are attached to the "⑦Flex Sleeve".</p> <p>⚠ WARNING</p> <p>Pay attention not to get injured from the sharp edge of "⑦Flex Sleeve"</p> <p>【Point】 Check and see if "⑦Flex Sleeve" is firmly fixed.</p>	<p>Phillips head Screwdriver</p> <p>⑪Fastening Screws</p> <p>⑬Aluminum tape</p>

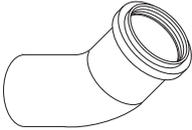
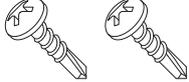
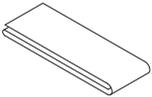
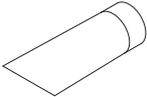
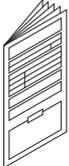
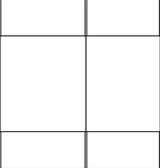
7.Maintenance

Periodically check the following to ensure proper operation of the water heater.

- The venting system must be examined periodically by a qualified service technician to check for any leaks or corrosion.
- Check and confirm that there is no tension to the flexible vent by hanging or suspending of anything.
- When changing the water heater, change whole venting components to new ones.

8. Parts Lists

No.	Parts name	Shape	Part#
	Flex Vent 2" Kit 35 Feet		EZ2FVK-2
①	Universal Rain Cap		EZ2FVURC-1
②	Top Flex Support for EZ2FVK		EZ2FVK-TFS
③	Flex Pipe 2"		EZ2FVP35
⑤	Base Junction Adapter Set		EZ2FVBJADS-1
⑥	Base Junction Support (w/o hole)		EZ2FVBJS-1
⑦	Flex Vent 2" Sleeve		EZ2FVS
⑧A ⑨ ⑩	Coupler		EZ2FVRC
⑧B	Connector Ring		EZ2FVCR

No.	Parts name	Shape	Part#
⑧C	45 degree PP elbow		EZ2FVR45ELB
⑪	Flex Vent 2" Fastening Screws		N/A
⑬	Flex Vent Aluminum Tape		N/A
⑭	Flex Vent O-Ring Lubricant		EZFVL
⑮	Flex Vent 2" Feeder		EZ2FVF
	Flex Vent 2" Kit 35 Feet Installation Manual		EZ2FVK-2-LT
	EZTR 35 Feet Start Up Guide		EZ2FVK-2-SUG
	Packing box		EZ2FVK35BOX

※"No." indicated on this page corresponds to the number on the applicable component on page 8.