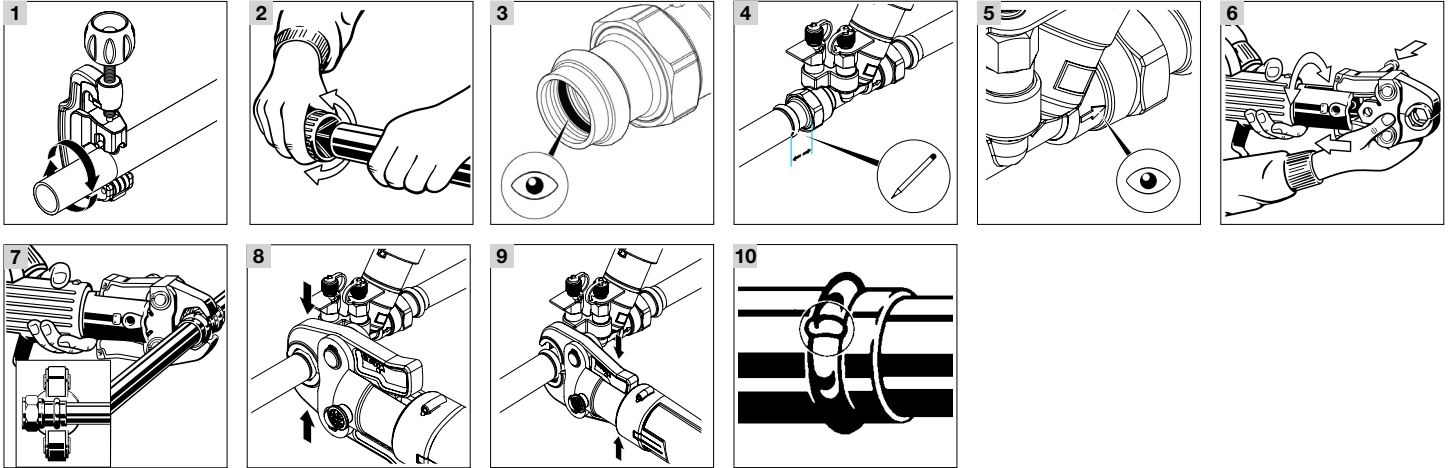


Product Instructions

ProPress Manual Balancing Valve ½" to 2"

For Hard Copper Tubing in ½" to 2" and Soft Copper Tubing in ½" to 1¼"



DANGER!
Read and understand all instructions for installing Viega ProPress fittings. Failure to follow all instructions may result in extensive property damage, serious injury, or death.

- 1 Cut copper tubing square using displacement-type cutter or fine-toothed saw.

i Cut tubing a minimum of 4" away from the contact area of the vise to prevent possible damage to the tubing in the press area.

- 2 Remove burr from inside and outside of tubing to prevent cutting the sealing element.

i For applications requiring a different sealing elements, remove the factory installed sealing element and replace with the applicable sealing element. See [Changing Sealing elements Product Instructions](#) on the [viega.us](#) website.

! To obtain the best performance, the valve must be installed on a pipe with the same nominal size preceded and followed by the these straight pipe lengths:

- 5 upstream pipe diameters (10 if installed near a pump outlet)
- 2 downstream pipe diameters

- 3 Check the sealing element for correct fit. Do not use oils or lubricants. Use only Viega ProPress sealing elements.
- 4 Mark the proper insertion depth as indicated by the ProPress Insertion Depth Chart. Improper insertion depth may result in an improper seal.

ProPress Insertion Depth Chart	
Tube Size (in)	Insertion Depth (in)
½	¾
¾	7/8
1	7/8
1¼	1
1½	1 1/16
2	1 9/16

i Copper tubing must be free of surface imperfections, including metal stamped print lines, before a ProPress fitting is installed.

- 5 While turning slightly, slide ball valve onto tubing to the marked depth. End of tubing must contact stop. Ensure the indication arrow on the body matches the correct flow direction of the system.
- 6 Insert appropriate Viega ProPress jaw into the press tool and push in, holding pin until it locks in place.
- 7 Open the jaw and place at right angle on the valve. Visually check insertion depth using mark on tubing.

Warning!
Keep extremities and foreign objects away from press tool during pressing operation to prevent injury or incomplete press.

- 8 Hold trigger on press tool until press jaws have fully engaged the valve. Jaws will automatically release after a full press is made.
- 9 After pressing, open the jaw and remove the press tool.

! Only ball valves marked with NSF-61 and NSF 372 are allowed for use in potable water systems.

10 Pressure testing with Smart Connect:

Unpressed connections are located by pressurizing the system with air or water. When testing with water the proper pressure range is 15 psi to 85 psi. When testing with compressed air the proper pressure range is ½ psi to 45 psi maximum. If testing with compressed air, use an approved leak-detect solution. Following a successful pressure test, the system may be pressure tested up to 200 psi with air or up to 600 psi with water.

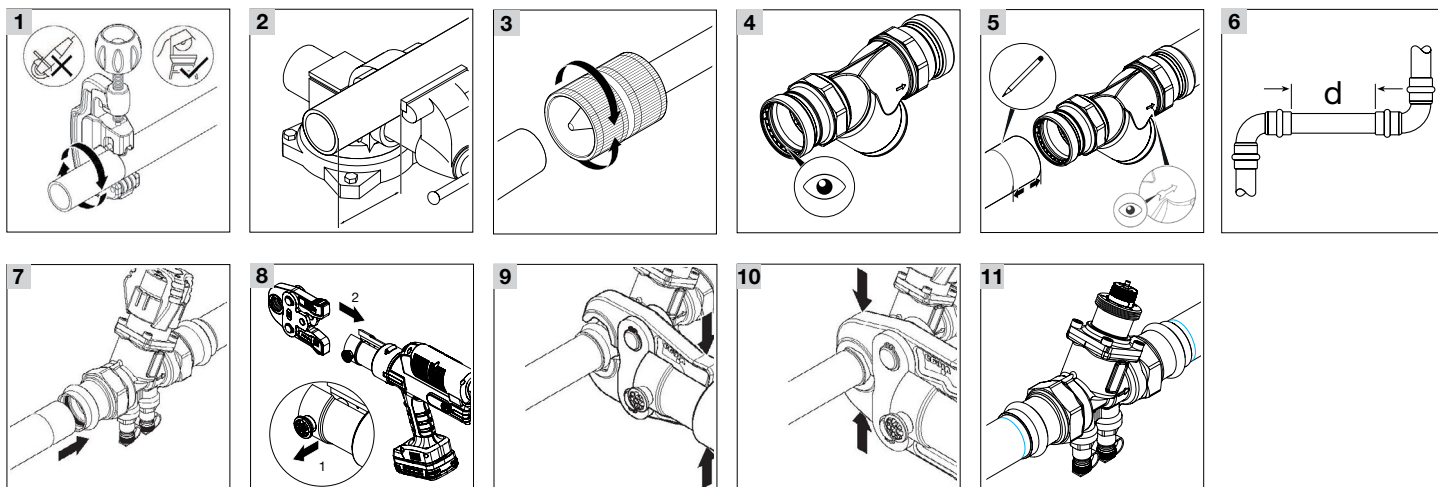
i Testing for unpressed connections using Smart Connect is not a replacement for pressure testing requirements of local codes and standards.

i Do not remove model from packaging prior to installation. Valves are delivered in the fully open position. More detailed information about flow and settings in the technical documentation.

Product Instructions

ProPress Dynamic Balancing Valve Model 2981.7

For Hard Copper Tubing in ½" to 2" and Soft Copper Tubing in ½" to 1¼"



! Viegaproducts are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with Viegaproducts and their installation. **Installation by non-professionals may void Viegaproducts' warranty.**

DANGER! Read and understand all instructions for installing ViegaproPress fittings. Failure to follow all instructions may result in extensive property damage, serious injury, or death.

! Only valves marked with NSF-61 and NSF-372 are allowed for use in potable water systems.

- 1 Cut copper tubing square using displacement-type cutter or fine-toothed saw.
- 2 Cut tubing a minimum of 4" away from the contact area of the vise to prevent possible damage to the tubing in the press area.
- 3 Remove burr from inside and outside of tubing and prep to proper insertion depth using a preparation tool or fine grit sandpaper.
- 4 Check the sealing element for correct fit. Do not use oils or lubricants. Ensure the indication arrow on the valve body matches the correct flow direction of the system.

- 5 Mark proper insertion depth as indicated by the ViegaproPress Insertion Depth Chart. Improper insertion depth may result in improper seal. It is recommended that the depth marking be visible on the completed assembly. Make sure the flow direction indicator on the valve is facing the correct direction.

ViegaproPress Insertion Depth Chart

Tube Size	½"	¾"	1"	1¼"	1½"	2"
Insertion Depth	¾"	⅞"	⅞"	1"	1⅞"	1⅞"

- 6 Refer to the chart below for minimum distance between fittings. To ensure a correct press, a minimum distance between press fittings must be maintained. Failure to provide this distance may result in an improper seal.

Tube Diameter (in)	d (in)	d (mm)
½	0	0
¾	0	0
1	0	0
1¼	⅞	10
1½	⅞	15
2	¾	20



Copper tubing must be free of surface imperfections, including metal stamped print lines, before a ProPress valve is installed.

- 7 While turning slightly, slide valve onto tubing to the marked depth. End of tubing must contact stop.
- 8 Insert appropriate ViegaproPress jaw into the press tool and push in, holding pin until it locks in place.

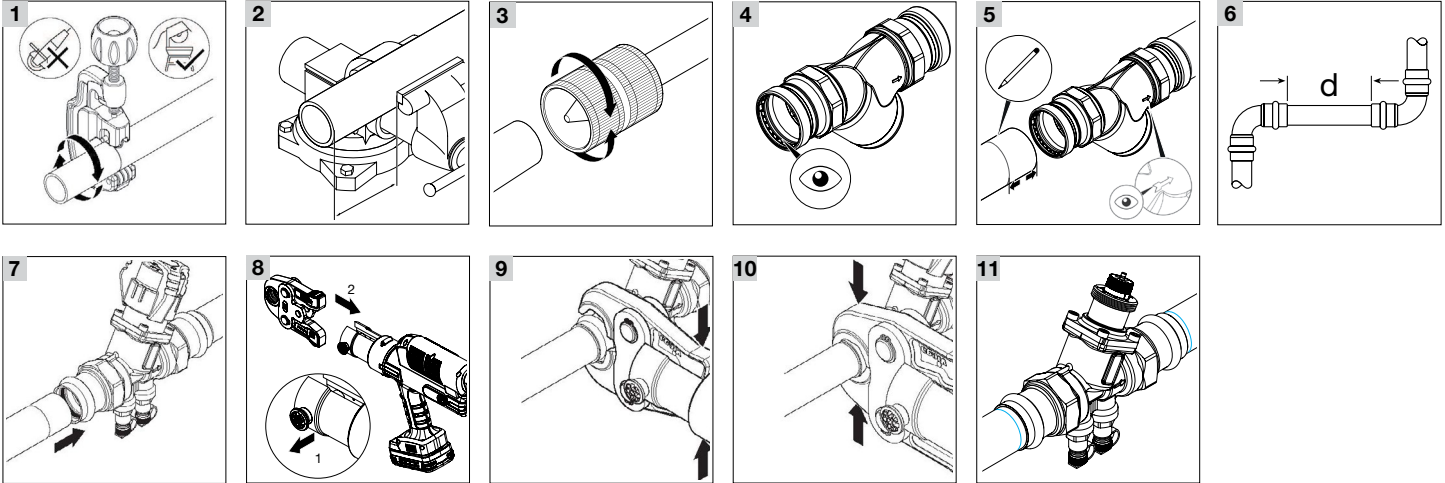
WARNING! Keep extremities and foreign objects away from press tool during pressing operation to prevent injury or incomplete press.

- 9 Open the jaw and place at right angle on the valve. Visually check insertion depth using mark on tubing.
- 10 Hold trigger on press tool until press jaws have fully engaged the valve.
- 11 After pressing, open the jaw and remove the press tool. Repeat steps for the other end of the valve.

Product Instructions

ProPress Pressure Independent Balancing and Control Valve (PIBCV) Models 2981.71 and 2987.72

For Hard Copper Tubing in ½" to 2" and Soft Copper Tubing in ½" to 1¼"



! Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with Viega products and their installation. **Installation by non-professionals may void Viega LLC's warranty.**

DANGER! Read and understand all instructions for installing Viega ProPress fittings. Failure to follow all instructions may result in extensive property damage, serious injury, or death.

! Only valves marked with NSF-61 and NSF-372 are allowed for use in potable water systems.

- 1 Cut copper tubing square using displacement-type cutter or fine-toothed saw.
- 2 Cut tubing a minimum of 4" away from the contact area of the vise to prevent possible damage to the tubing in the press area.
- 3 Remove burr from inside and outside of tubing and prep to proper insertion depth using a preparation tool or fine grit sandpaper.

- 4 Check the sealing element for correct fit. Do not use oils or lubricants.
- 5 Mark proper insertion depth as indicated by the Viega ProPress Insertion Depth Chart. Improper insertion depth may result in improper seal. It is recommended that the depth marking be visible on the completed assembly. Ensure the indication arrow on the valve body matches the correct flow direction of the system.

Viega ProPress Insertion Depth Chart

Tube Size	½"	¾"	1"	1¼"	1½"	2"
Insertion Depth	¾"	7/8"	7/8"	1"	1 1/16"	1 1/16"

- 6 Refer to the chart below for minimum distance between fittings. To ensure a correct press, a minimum distance between press fittings must be maintained. Failure to provide this distance may result in an improper seal.

Tube Diameter (in)	d (in)	d (mm)
½	0	0
¾	0	0
1	0	0
1¼	7/16	10
1½	5/8	15
2	¾	20

i Copper tubing must be free of surface imperfections, including metal stamped print lines, before a ProPress valve is installed.

- 7 While turning slightly, slide valve onto tubing to the marked depth. End of tubing must contact stop.
- 8 Insert appropriate Viega ProPress jaw into the press tool and push in, holding pin until it locks in place.

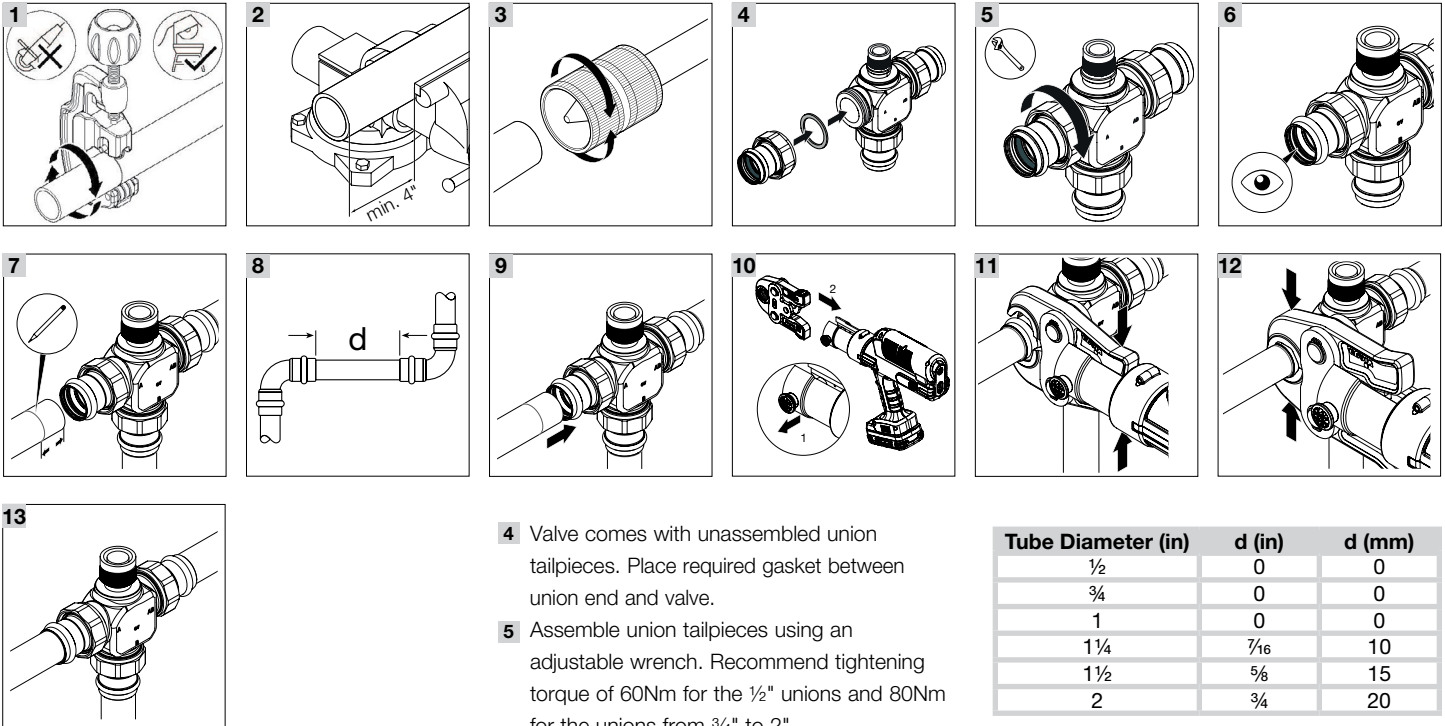
WARNING! Keep extremities and foreign objects away from press tool during pressing operation to prevent injury or incomplete press.

- 9 Open the jaw and place at right angle on the valve. Visually check insertion depth using mark on tubing.
- 10 Hold trigger on press tool until press jaws have fully engaged the valve.
- 11 After pressing, open the jaw and remove the press tool. Repeat steps for the other end of the valve.

Product Instructions

ProPress Three-Way Valve Model 2976.3

For Hard Copper Tubing in ½" to 2" and Soft Copper Tubing in ½" to 1¼"



! Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with Viega products and their installation. **Installation by non-professionals may void Viega LLC's warranty.**

! DANGER! Read and understand all instructions for installing Viega ProPress fittings. Failure to follow all instructions may result in extensive property damage, serious injury, or death.

! Only valves marked with NSF-61 and NSF-372 are allowed for use in potable water systems.

- 1 Cut copper tubing square using displacement-type cutter or fine-toothed saw.
- 2 Cut tubing a minimum of 4" away from the contact area of the vise to prevent possible damage to the tubing in the press area.
- 3 Remove burr from inside and outside of tubing and prep to proper insertion depth using a preparation tool or fine grit sandpaper.

- 4 Valve comes with unassembled union tailpieces. Place required gasket between union end and valve.
- 5 Assemble union tailpieces using an adjustable wrench. Recommend tightening torque of 60Nm for the ½" unions and 80Nm for the unions from ¾" to 2".
- 6 Check the sealing element for correct fit. Do not use oils or lubricants.
- 7 Mark proper insertion depth as indicated by the Viega ProPress Insertion Depth Chart. Improper insertion depth may result in improper seal. It is recommended that the depth marking be visible on the completed assembly.

Viega ProPress Insertion Depth Chart						
Tube Size	½"	¾"	1"	1¼"	1½"	2"
Insertion Depth	¾"	7/8"	7/8"	1"	1 1/16"	1 1/16"

i Copper tubing must be free of surface imperfections, including metal stamped print lines, before a ProPress valve is installed.

- 8 Refer to the following chart for minimum distance between fittings. To ensure a correct press, a minimum distance between press fittings must be maintained. Failure to provide this distance may result in an improper seal.

Tube Diameter (in)	d (in)	d (mm)
½"	0	0
¾"	0	0
1"	0	0
1¼"	7/16	10
1½"	5/8	15
2"	¾	20

- 9 While turning slightly, slide valve onto tubing to the marked depth. End of tubing must contact stop.
- 10 Insert appropriate Viega ProPress jaw into the press tool and push in, holding pin until it locks in place.

! WARNING! Keep extremities and foreign objects away from press tool during pressing operation to prevent injury or incomplete press.

- 11 Open the jaw and place at right angle on the valve. Visually check insertion depth using mark on tubing.
- 12 Hold trigger on press tool until press jaws have fully engaged the valve.
- 13 After pressing, open the jaw and remove the press tool. Repeat steps for the remaining unions.

3 Limited Warranty – Viega Metal Systems

Subject to the conditions and limitations in this Limited Warranty (“Warranty”), Viega LLC (“Viega”) warrants to end users, installers, and distributors in the United States and Canada that the following products (“Viega Products”) will be free of failure caused by a manufacturing defect from the date of installation for the time periods specified in the table included in this Warranty.

This Warranty will be valid only in the event the following conditions have been met: The Viega Products have been properly installed (1) under normal conditions of use; (2) under applications approved by Viega; (3) under Viega-specified system operating conditions; (4) using tools compatible with Viega systems; and (5) in alignment with Viega’s listings.

Further, you have a right to a remedy under this Warranty only if the Viega Product failure resulted from a manufacturing defect in the Viega Product and if the failure occurred during the applicable warranty period. You do not have a remedy under this Warranty if the failure was caused by (1) components other than those manufactured and/or sold by Viega; (2) failure to design, install, inspect, test, or maintain the Viega Product in accordance with Viega’s installation and product instructions in effect at the time of installation; (3) use of Viega Products under non-recommended system operating conditions (e.g., water pressures, temperatures, or other external chemical or physical conditions); (4) improper handling or protection of the Viega Product prior to, during, or after installation (e.g., inadequate freeze protection or exposure to environmental conditions not recommended for the application); or (5) acts of nature, including, without limitation, earthquakes, fire, or weather damage.

In the event of a failure of a Viega Product covered by this Warranty, it is the duty and responsibility of the end user to take appropriate measures to mitigate all potential damage, including making timely repairs to the system in which the Viega Product has been installed. The part or parts which you claim failed must be kept and returned to Viega for testing. Viega may be contacted at the phone number or mailing address below. All warranty claims must be made within 30 calendar days after the failure has (or

should reasonably have) been discovered. You should be prepared to ship, at your expense, the Viega Product which you claim failed due to a manufacturing defect, with documentation of the installation date and the amount spent on any repair or replacement if performed by you. Within a reasonable time after receiving the Viega Product, Viega will investigate the cause of the failure, which includes the right to inspect the Viega Product at a Viega location and reasonable access to the site of any alleged damage. Viega will notify you in writing of the results of its review.

In the event Viega determines that the failure was the result of a manufacturing defect in the Viega Product covered by this Warranty and all conditions of this Warranty have been met, your **SOLE AND EXCLUSIVE REMEDY** under this Warranty shall be the reimbursement for the reasonable costs of repair or replacement of the Viega Product itself. **VIEGA SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR OTHER SIMILAR DAMAGES (E.G., ECONOMIC LOSS, WATER OR PROPERTY DAMAGE, OR MOLD REMEDIATION) UNDER ANY LEGAL THEORY AND WHETHER ASSERTED BY DIRECT ACTION, FOR CONTRIBUTION, INDEMNITY, OR OTHERWISE.**

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR ANY STATUTE OF LIMITATIONS RELATING TO SUCH WARRANTIES. Viega will be responsible for remedies only if all conditions of this Warranty have been met. Other than this Warranty, Viega does not authorize any person, company, contractor, or distributor to create any additional warranty, obligation, or liability in connection with the Viega Product.

This Warranty gives you specific legal rights, and you also may have other rights which may vary from state to state. This Warranty shall be interpreted and applied under the law of the state in which the product is installed and is intended as a **COMMERCIAL WARRANTY**.

Continues on next page.

Warranty Period by Product and Application Type		
Viega Product Line	Residential and Commercial	Industrial ¹ and Marine ²
ProPress® copper fittings	50 years	2 years
ProPress 316 fittings and tubing	10 years	
MegaPress® fittings	15 years	
MegaPress FKM fittings		
MegaPress 304 FKM fittings		
MegaPress 316 fittings		
MegaPress 316 FKM fittings		
MegaPressG ³ fittings		
MegaPress CuNi fittings		
All valves	5 years	
¹ Industrial applications are defined as non-residential and non-commercial applications not normally accessible to the general public, including manufacturing, mining, process, or fabrication environments, or applications with components that have been cleaned for oxygen service.		
² Marine applications are defined as mobile structures used to navigate water or stationary structures in water.		
³ MegaPressG products covered by this Warranty must be installed by a licensed contractor in compliance with applicable building, permit, and inspection codes. See product instructions for additional information.		