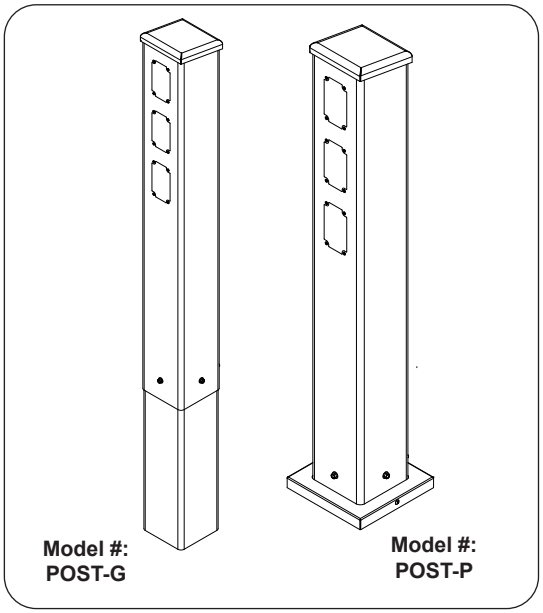
RH PETERSON CO.

Commercial Electric Control Towers

Model #: POST-P, POST-G

INSTALLER: Leave these instructions with consumer.
CONSUMER: Retain for future reference.

⚠ WARNING: For Outdoor Use Only.
Installation and service must be performed by an NFI certified or other qualified professional service technician.



This stainless steel commercial electric control tower (post) is designed to accommodate up to three (single-gang) control boxes. RHP outdoor commercial controls are available See boxed information below for more details. Contact your dealer for ordering information.

Any externally-provided controls for the power source is permitted for use, provided they comply with all requirements. Observe all local codes and ordinances when installing the tower with controls. If no local codes are applicable, installation MUST be in accordance with the latest National Electric Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1, the National Fuel Gas Code (NFPA 54),whichever is applicable.

ELECTRICAL SETUP

WARNING: DO NOT MODIFY THIS POST OR ITS CONTROL OPENINGS. Only use the knockouts provided. Do not drill extra holes into the commercial electrical control tower. Any changes will be dangerous. Improper installation or use of post can cause serious injury or death.

Important: <u>All electrical setup of this tower and controls MUST be performed by a licensed electrician.</u>

This unit is designed for direct hard wiring and must be powered by a dedicated GFCI circuit breaker. The GFCI reset must be rated to properly carry the load. If using RH Peterson controls, the circuit breaker MUST be rated for 110~120VAC (20 AMP maximum). Your installation may vary.

- **The controls must be disconnected from power for future maintenance and servicing.**
- **To gain access to the inside of the tower, unscrew and carefully open the access plate on the rear of the tower using a medium Phillips-head screwdriver and socket driver. Retain the screws and bolts.**

PREPARE FOR INSTALLATION

A. TURN OFF THE MAIN ELECTRICAL SUPPLY TO THE INSTALLATION LOCATION.

B. Ensure that all specifications, requirements, safety information and warnings are understood and followed per <u>THIS MANUAL **AND** the manuals supplied with the controls and the unit to be controlled.</u>

C. Verify proper polarity of the power source control and GFCI breaker.

D. Remove all packing material (including any protective coatings) and discard prior to installation.

RH Peterson Outdoor Commercial Controls (sold separately)

RHP outdoor commercial controls are available for use with these towers. See compatible models below. Contact your dealer for ordering information.

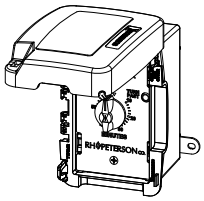
Master Key Switch

Model # 5531-10K

Emergency Stop

Model # 5550-110S

1-hr Timer

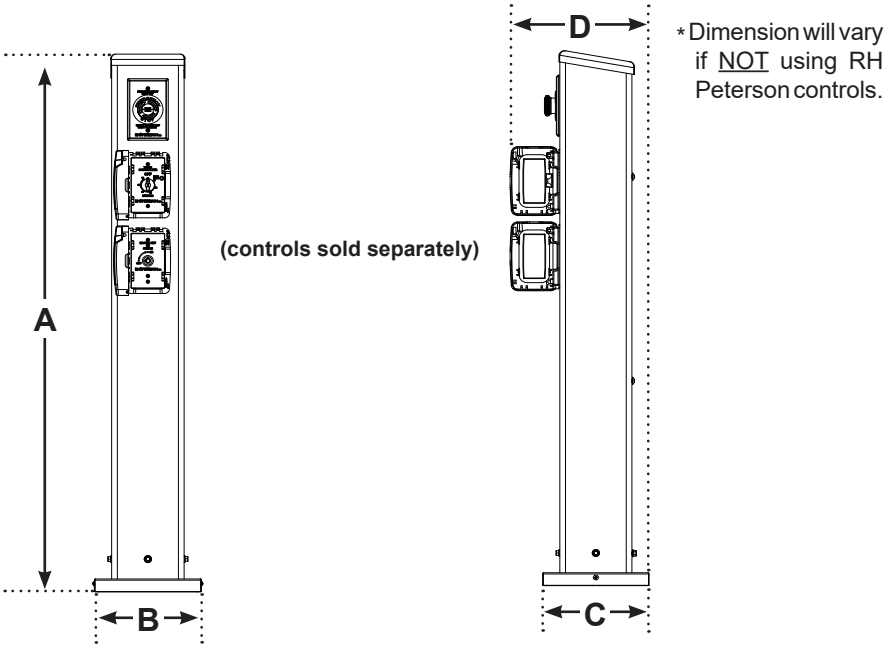


Model # 5531-11T

SPECIFICATIONS

FLOOR MOUNT POST DIMENSIONS

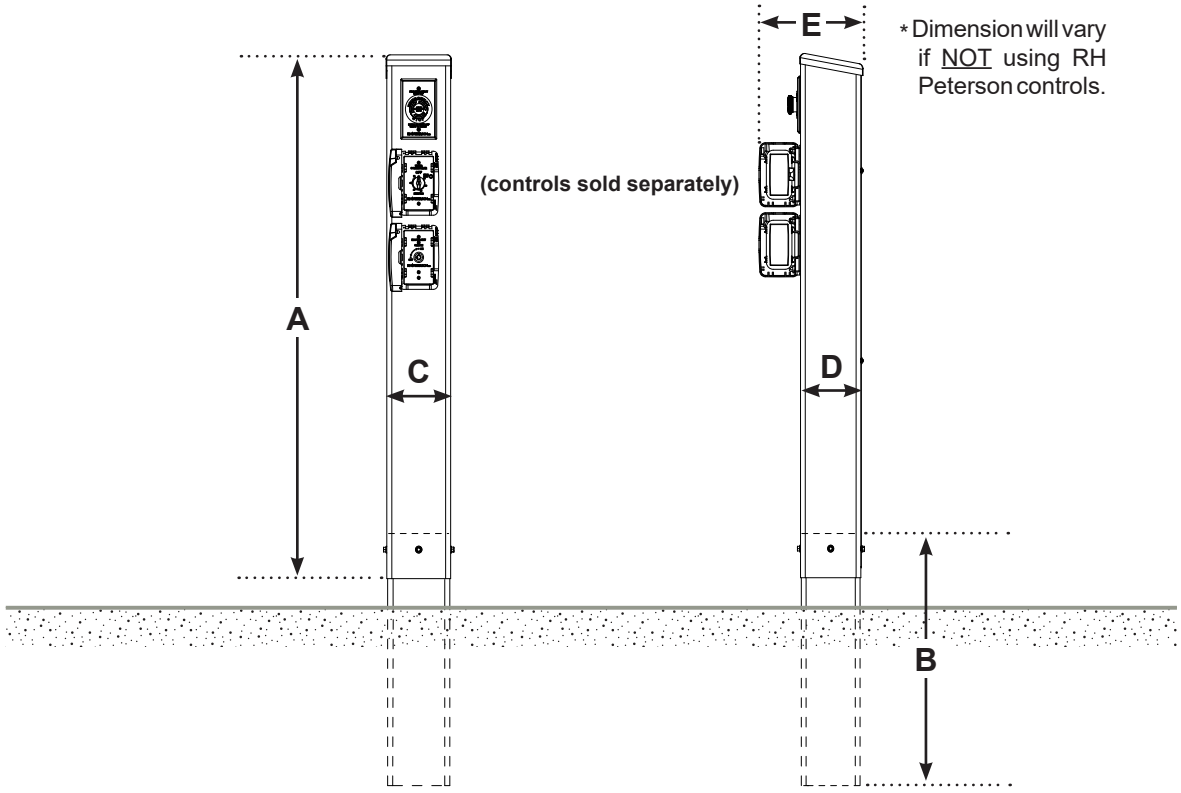
	Height	Width	Depth	
	top to bottom (**A**)	left to right (**B**)	front to back	
			Post (**C**)	with RHP controls (**D**)*
POST-P	42 3/4"	9 1/2"	9 1/2"	10 1/2"



* Dimension will vary if NOT using RH Peterson controls.

IN-GROUND POST DIMENSIONS

	Height		Width	Depth	
	Post (main) only (**A**)	Post (extension) only (**B**)	left to right (**C**)	front to back	
				Post (**D**)	with RHP controls (**E**)*
POST-G	42 3/8"	20"	5 1/2"	5 1/2"	9 1/2"



* Dimension will vary if NOT using RH Peterson controls.

INSTALLATION

INSTALLATION OVERVIEW

Stainless steel posts can be installed in ground or floor-mounted depending on your selected model. Refer to the example below as a reference when installing the stainless steel post. Your installation may vary.

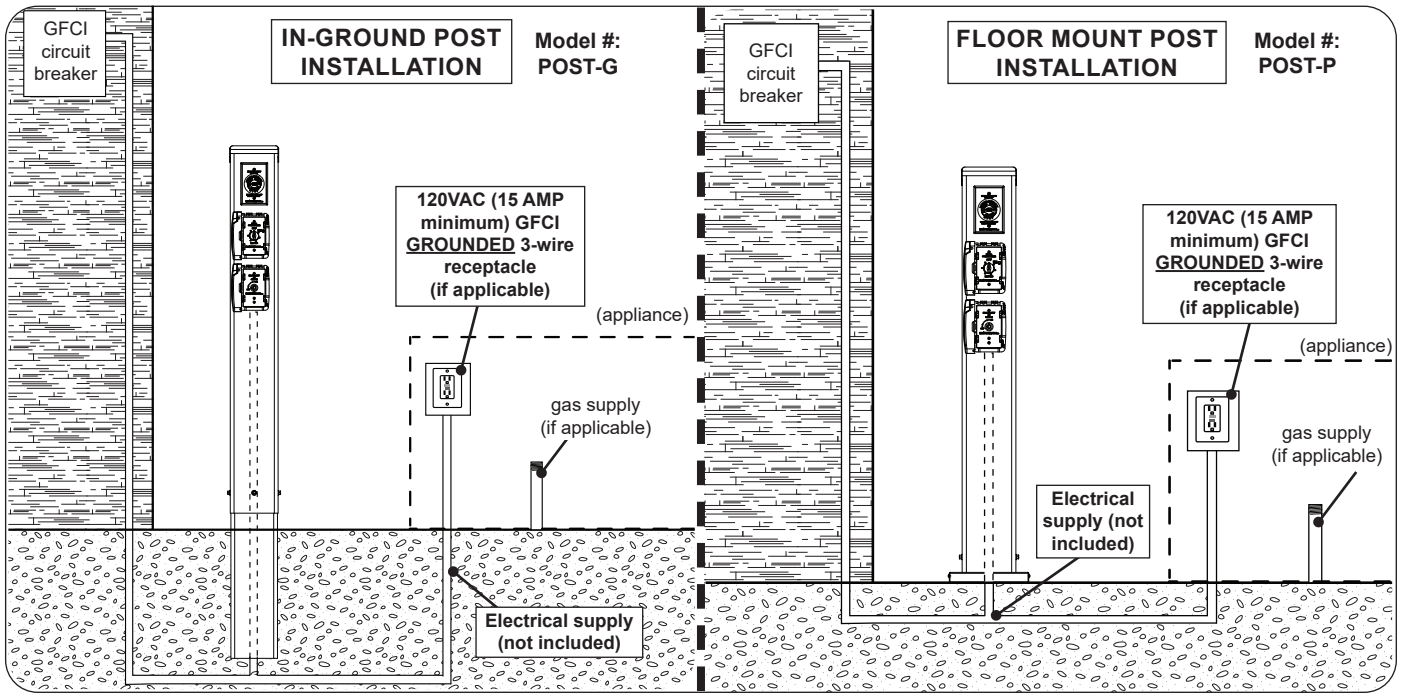


Fig. 3-1 Stainless steel post installation overview

LOCATION

Important: <u>The electrical setup must be considered when determining the location of the unit</u>. See ELECTRICAL SETUP section for details.

While following all requirements and safety information for your unit; determine and prepare the location of the stainless steel post:

- Floor mount: a hard and level surface
- In-ground: a hole in the ground approximately 18" deep and 10-12" in diameter

Note: Stainless steel post should be installed within the proper range of unit to be controlled.

REFER TO THE FOLLOWING PAGES TO LOCATE THE APPROPRIATE SECTION FOR YOUR INSTALLATION METHOD:

<u>FLOOR MOUNT POST INSTALLATION</u>

OR

<u>IN-GROUND POST INSTALLATION</u>

FLOOR MOUNT POST INSTALLATION

POST BASE INSTALLATION

Refer to the INSTALLATION OVERVIEW section as an example for reference as needed.

Important: Your underground electrical supply (not included) must be setup in advance before proceeding with installation. Ensure the electrical wiring reaches a minimum 4" in wire length above ground. **Observe the National Electric Code and all local codes.**

Important: The post base must be fastened securely to a stable, level surface to ensure the post remains fixed and upright at all times.

1. Route the electrical wiring up from underground to the planned post location, then position the post base over the electrical wiring. See Fig. 4-1.
2. Ensure proper placement of the planned post location and use the post base to mark the 4 holes to the ground. See Fig. 4-1.
3. Drill the marked holes to a 1/2" diameter x 1 1/2" depth. Insert the included lag shields into the holes, being sure that they are flush with the ground.
4. Align the holes on the post base, over the lag shields in the ground. Secure the base with the included washers and lag screws using a 7/16" nut driver.

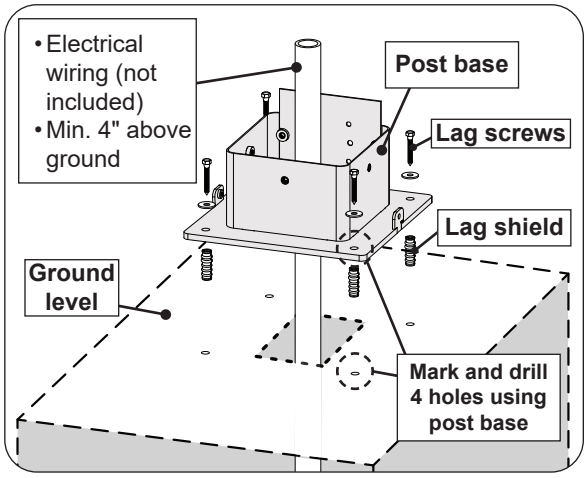


Fig. 4-1 Post specification

INSTALL POST TO POST BASE

1. Use a Phillips head screwdriver to remove the four screws on the access plate. See Fig. 4-2, A.
2. Set the access plate and four screws aside for later reinstallation.
3. As needed, select and remove the intended knockout(s) from the stainless steel post. See Fig. 4-2, B.

Note: **Leave the unused knockout(s) attached.**

4. Attach the post base cover to the post base with the provided screws and a Phillips-head screwdriver. See Fig. 4-3, C.
5. Align the front three post holes to the three remaining weld nut holes on the post base.
6. From outside the joined post and post base, insert one of the 1/4 X 20"-1/2" bolts (supplied) into each of the three (3) bolt holes and tighten each bolt using a 7/16" socket driver or wrench (see Fig. 4-3, D).

Note: There is one hole on the front, left and right sides of the post.

7. Tighten all screws and ensure all bolts have been securely fastened.

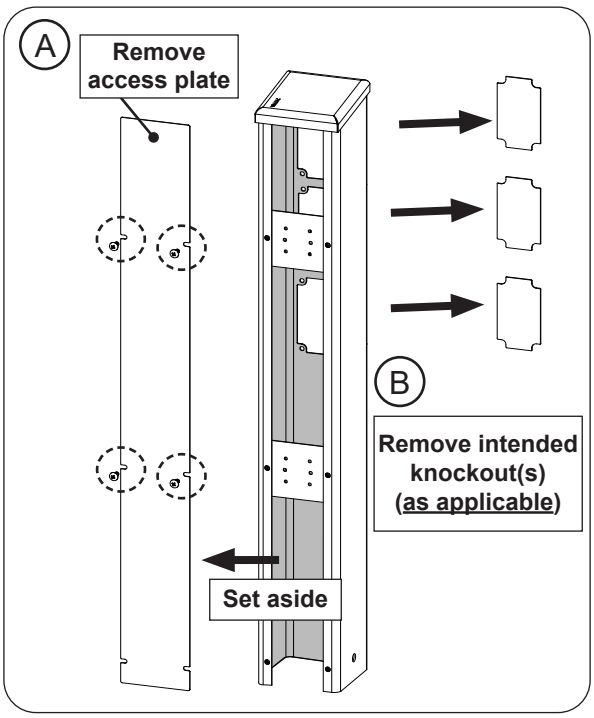


Fig. 4-2 Post preparation

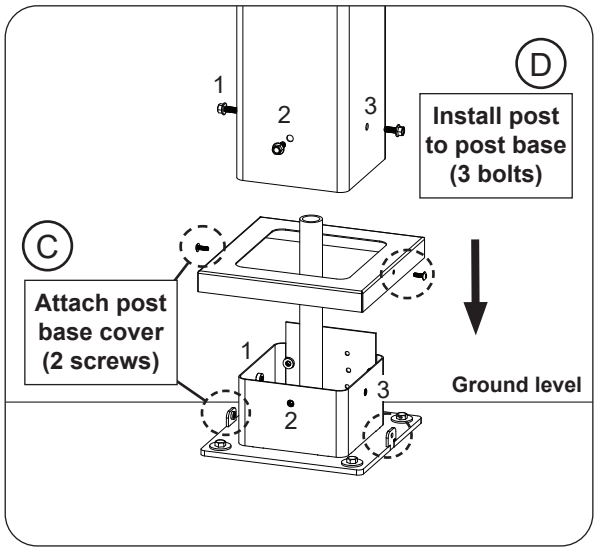


Fig. 4-3 Attach post to post base

Proceed to COMMON INSTALLATION

POST EXTENSION INSTALLATION

Consult a qualified professional installer / licensed contractor.

Refer to the INSTALLATION OVERVIEW section as an example for reference as needed.

Important: Your underground electrical supply (not included) must be setup in advance before proceeding with installation. Confirm the electrical wiring reaches a minimum 4" in wire length above ground level. **Observe the National Electric Code and all local codes.**

1. Where the electrical wiring is exiting the ground, dig a hole for the post extension approximately 18" deep and 10-12" in diameter at the chosen location. See Fig. 5-1.

Note: Ensure that the electrical wiring is of sufficient length to accommodate the dimension of the post extension above ground to make proper connections.

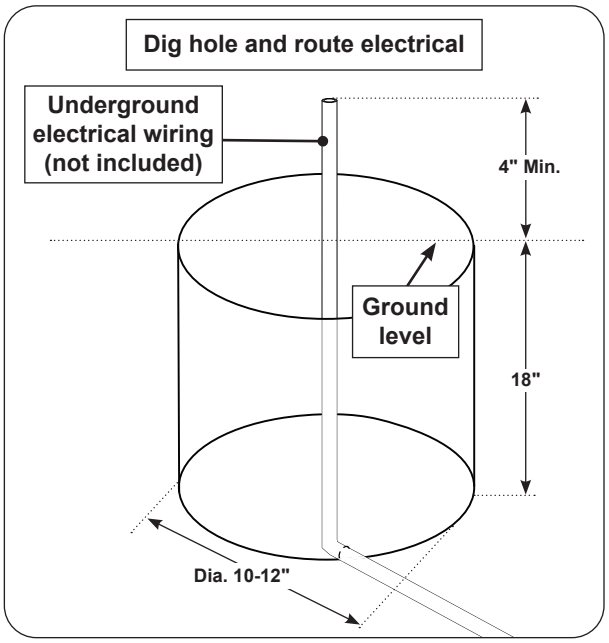


Fig. 5-1 Prepare for in-ground installation

INSTALL POST TO POST EXTENSION

1. Use a Phillips head screwdriver to remove the top four screws and a $^{5}/_{16}$" socket driver for the bottom two $^{5}/_{16}$" hex screws.
2. Discard the bottom two $^{5}/_{16}$" hex screws and set aside the access plate with the top four screws for later reinstallation. See Fig. 5-2, A.
3. Pull out the post extension from the post. See Fig. 5-2, B.
4. As needed, select and remove the intended knockout(s) from the stainless steel post. See Fig. 5-2, C.

Note: **Leave unused knockouts attached.**

5. Align the three holes on the front of the post to the three weld nut holes on the front of the post extension so that the open portion faces the same direction as the access plate opening. See Fig. 5-3.
6. From outside the joined post and post extension, insert one of the $^{1}/_{4}$ X 20"-$^{1}/_{2}$" bolts (supplied) into each of the three (3) bolt holes and tighten each bolt using a $^{7}/_{16}$" socket driver or wrench (see Fig. 5-3).

Note: There is one hole on the front, left and right sides of the post.

7. Tighten all screws and ensure all bolts have been securely fastened.

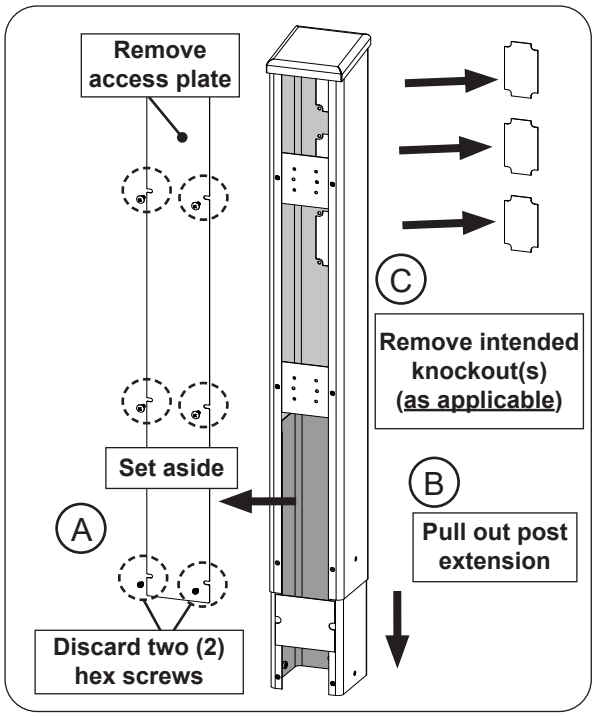


Fig. 5-2 Post preparation

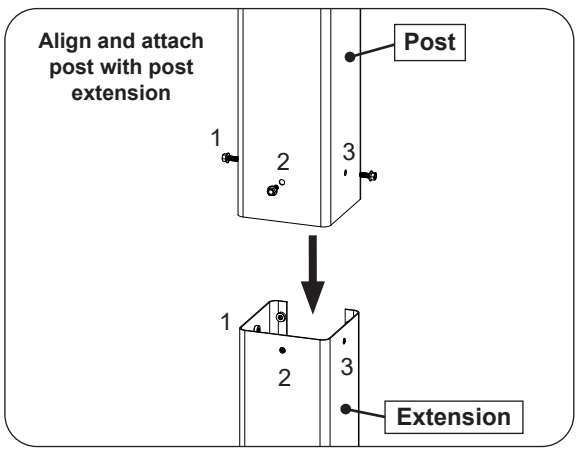


Fig. 5-3 Install post to extension

POUR CONCRETE & PLACE POST IN GROUND

Note: Confirm all electrical requirements have been met. **Observe the National Electric Code and all local codes.**

1. Prepare the concrete for installation.
2. Carefully orient the post over the electrical supply and into the installation hole. **Verify proper positioning**.

Important: Check that the electrical supply line is running up through the post hole and remains safely above the concrete level when poured.

3. Remove the post, then protect the end of the electrical supply line with a plastic bag and/or tape to avoid getting concrete or other debris on the supply wires.
4. Pour the concrete mixture into the hole to approximately 3-5" below the ground level taking care to protect the electrical wiring. See Fig. 6-1 and Fig. 6-2.
5. While the concrete is still wet, carefully lower the post with the extension into the hole while routing the electrical wiring through the post extension's clearance hole.

Important: The post assembly should be positioned just above ground level to ensure that the access plate remains accessible and can be easily removed. See Fig. 6-2.

6. Orient the post assembly per plan, and support it so that it remains in an up right, level and aligned position while the concrete dries.

Allow sufficient time for the concrete to dry before proceeding with installation.

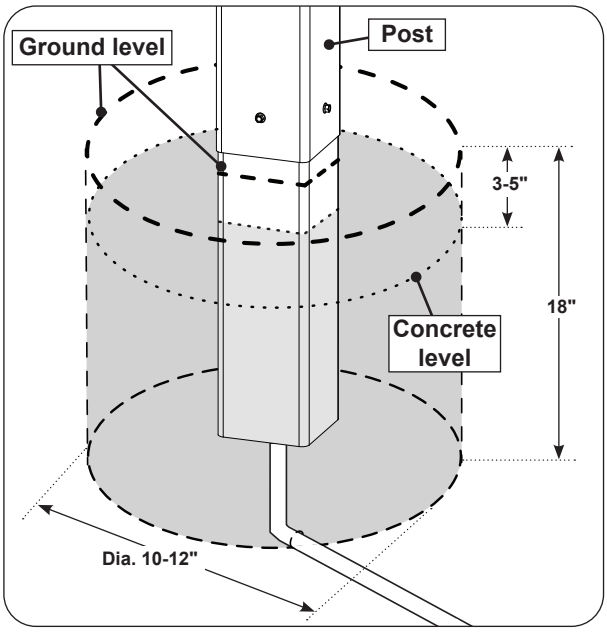


Fig. 6-1 In-ground installation overview

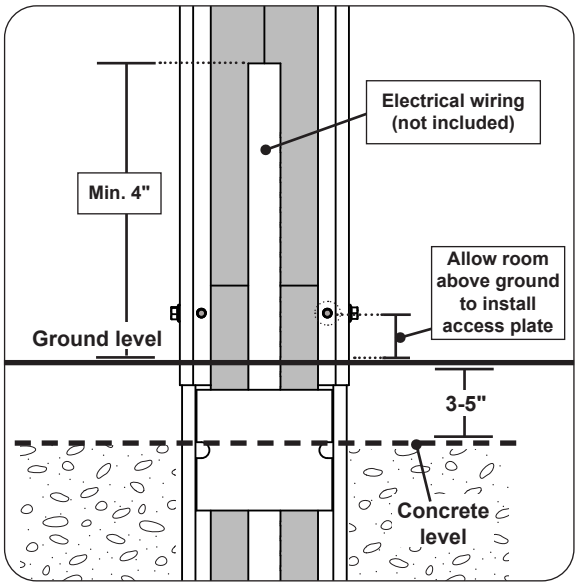


Fig. 6-2 Place post in-ground

INSTALL SWITCH BOX TO POST

Refer to the instructions provided with your switch as applicable. **Observe the National Electric Code and all local codes.** RHP outdoor commercial controls are shown here. Contact your dealer for ordering information.

1. Refer to the power source control instructions as applicable to separate the switch box from the assembly (if applicable). See Fig. 7-1.
2. **When installing only ONE power source control:**
   - Secure the detached switch box to the selected knockout with the four screws supplied with the post. See Fig. 7-3.

   When installing MULTIPLE power source controls:
   - Use the supplied hardware (nipples and nuts) to join each switch box for electrical routing. Attach hardware as applicable. See Fig. 7-2, A and B.
   - Adjust the hardware to create 1- 3/8" gaps between each switch box as needed. See Fig. 7-2, B.

   IMPORTANT:

   The 1-hr timer controller (if applicable, sold separately) must be installed last in the wiring series. See CONNECT POWER SOURCE CONTROLS on the following page for more information.
3. Install the box or joined boxes into the designated knockout opening(s) using the screws provided with the post. See Fig. 7-3.

Note: For a three-switch box installation, start to fasten at the center.

4. Tighten all screws and ensure all hardware have been fastened securely.

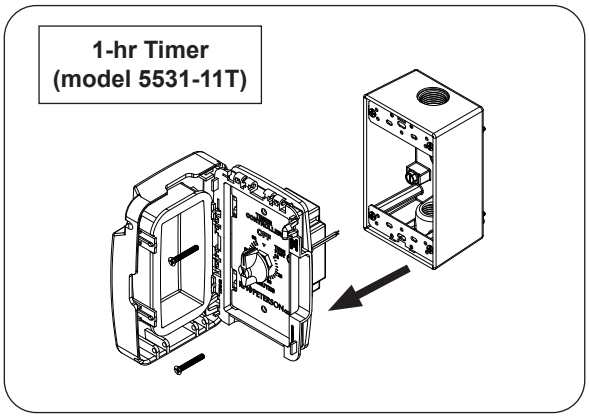


Fig. 7-1 Power source control(s)

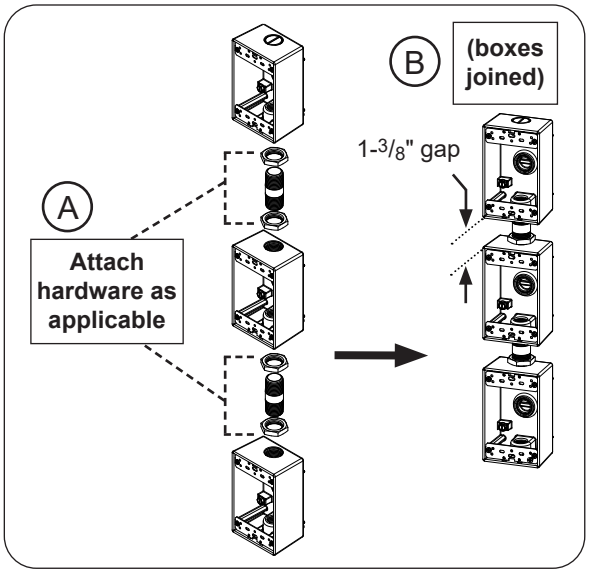


Fig. 7-2 Hardware connections

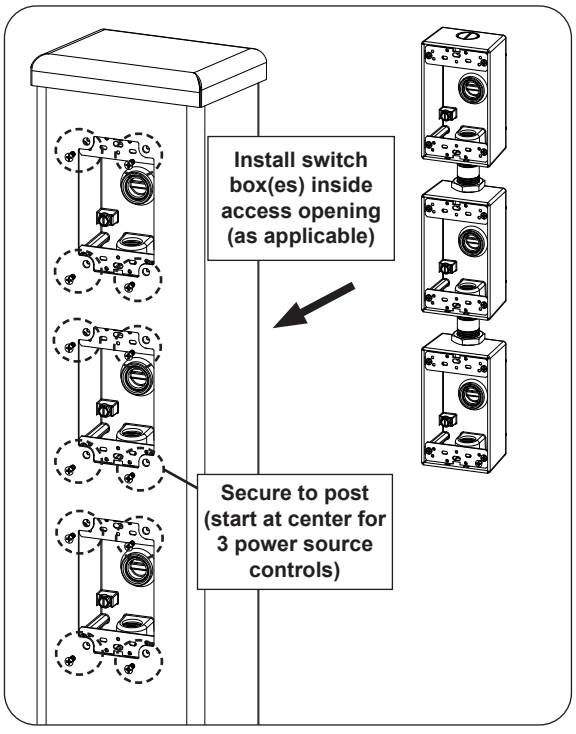


Fig. 7-3 Install switch box(es)

CONNECT POWER SOURCE CONTROLS

WARNING: **All electrical setup of this post and controls MUST be performed by a licensed electrician**.

IMPORTANT:
IF APPLICABLE, THE 1-HR TIMER MUST BE INSTALLED LAST IN THE WIRING SERIES.

Reference the diagram below as a guide for wire connections. RHP outdoor commercial controls are shown here. Your wiring connections may vary.

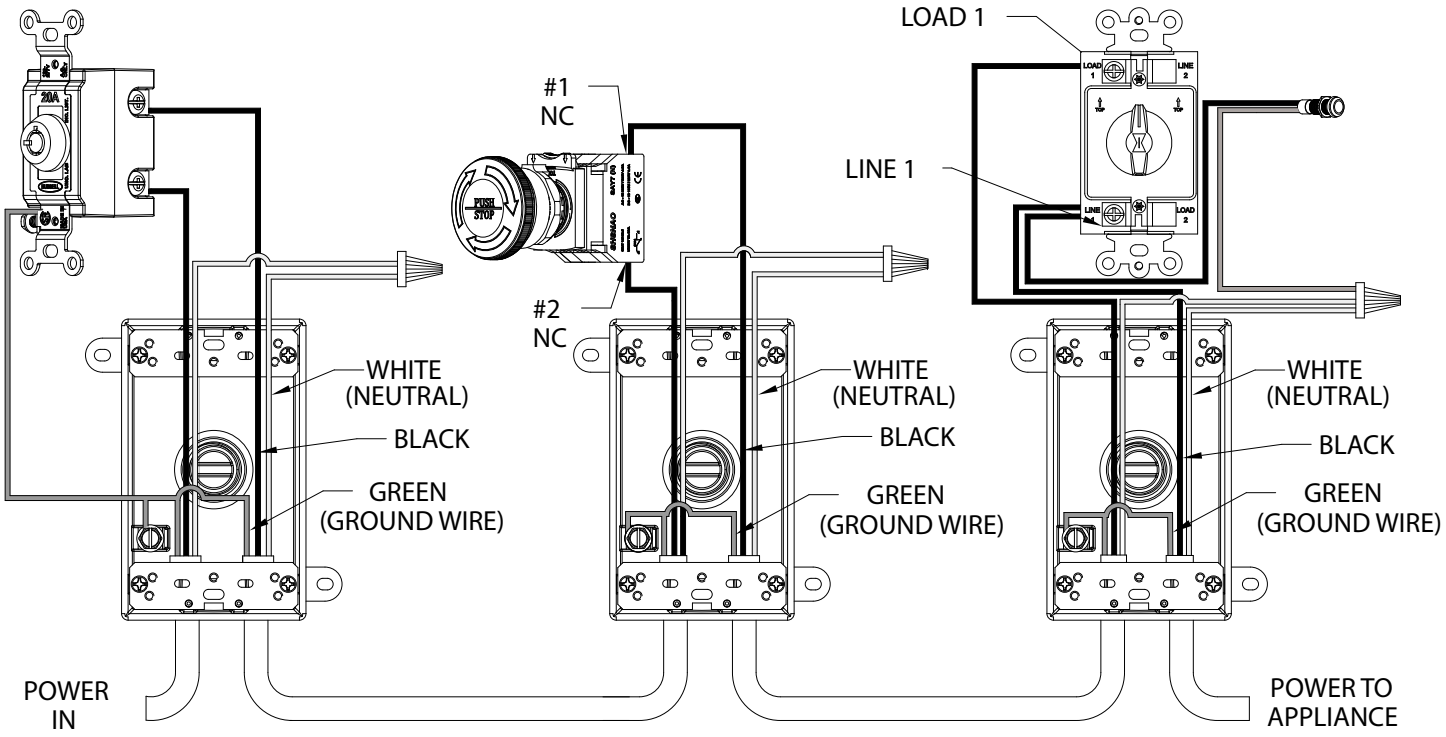


Fig. 8-1 Wire diagram example

1. Connect all electrical:
   - Guide wiring up the post assembly.
   - Follow the instructions provided with the control(s) to make connections.
   - Use the hardware necessary to connect between each switch box and adjust as needed.
2. Ensure all wire connections are fully secured, switch ON the electrical system and test the power to the unit.
3. Finish box installation by installing the protective cover(s) and other remaining components as applicable.

Note: When installing the protective cover, vertical orientation of the hinge is recommended, if applicable.

4. Re-install the access plate to stainless steel post with a Phillips head screwdriver for the top four screws and a $^{7}/_{16}$" socket driver for the two $^{1}/_{4}$" - 20 x $^{5}/_{8}$" bolts.

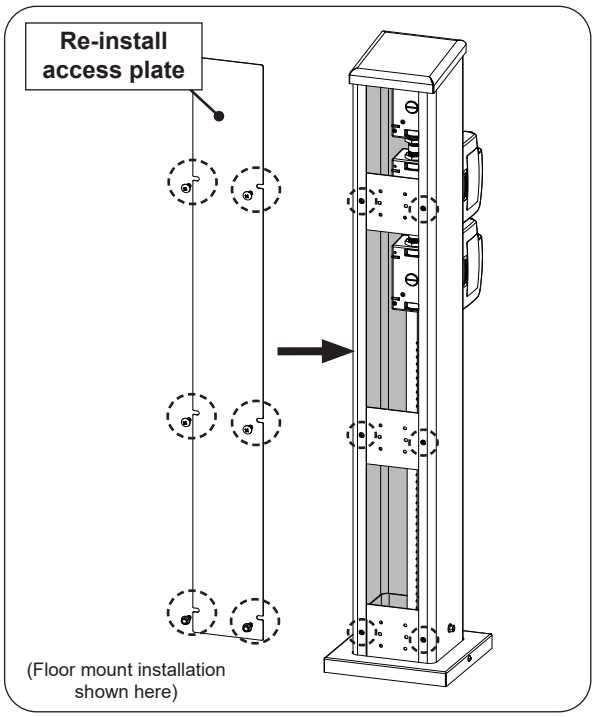


Fig. 8-2 Install access plate

NOTES PAGE

Please use this page to record any information that you may want to have at hand.

WARRANTY

RH PETERSON CO.

COMMERCIAL / MULTI-USER LIMITED WARRANTY

When used in a commercial / multi-user setting* including but not limited to apartment complexes, multi-family dwelling complexes, schools, hotels, fire stations, police stations, etc.

*Excluding restaurants and other professional cooking settings.

R.H. Peterson Co. ("RHP") warrants your product to be free from defects in material and workmanship.

RHP Stainless steel housings are warranted for **FIVE (5) YEARS**.

All other components, except batteries, are warranted for **THREE (3) YEARS**.

A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE IS REQUIRED

This warranty applies to the original purchaser for products which are installed in the United States or Canada. This warranty is valid only with proof of purchase, commences on the date of purchase, and terminates (both as to original and any replacement products) on the anniversary date of the original purchase of the product per the above schedules.

This warranty **does not** cover parts which become defective as a result of negligence, misuse, use not in compliance with the Installation and Owner's Manual, accidental damage, improper handling, improper storage, improper installation, **lack of required routine maintenance** (as specified in the Installation and Owner's Manual), electrical damage, local gas impurities or failure to protect against combustible materials. Product must be installed (and gas must be connected) as specified in the Installation and Owner's Manual by a **qualified professional installer**. This warranty **does not** apply to rust, corrosion, oxidation, or discoloration unless the affected part becomes inoperable. RHP products including valves, pilots and controls are designed and certified to be used as a system. Modifications to products which are not specifically authorized will void this warranty and could render the product to be unsafe. Warrantied items will be repaired or replaced at RHP's sole discretion. This warranty **does not** cover labor or labor related charges, except as provided by separate specific written programs from RHP. All repair work must be performed by a qualified professional service person and requires prior approval of RHP.

RHP may require the defective product or part to be returned to the factory to determine the cause of failure. RHP will pay freight charges if the product or part is determined to be defective. This warranty does not cover breakage in shipment from our independent distributor to its customer if the damage is determined to have occurred during that shipment.

This warranty specifically excludes liability for **indirect**, **incidental**, or consequential damages. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specified legal rights, and you may have other rights that vary from state to state or province.

For additional information regarding this warranty, or to place a warranty claim, contact the RHP dealer where the product was purchased.

When contacting your RHP dealer or the R.H. Peterson Co., please provide the following information:

- Your name, address, telephone number, e-mail
- Sales receipt showing where purchased and date purchased
- Model number, serial number of product, date code
- Relevant information: installer, additions, repairs, when defect was first noted

TO REGISTER YOUR PRODUCT ONLINE GO TO: WWW.RHPETERSON.COM, AND CLICK ON PRODUCT REGISTRATION. THANK YOU FOR YOUR PURCHASE.

Quality Check	**Date:**_____	**Model #:**	
Electrical Leak Test: _____			
Operation Test: _____			
Inspector: _____		**Serial #:**	