SPEAKMAN®

SM-5010

Installation, Operation & Maintenance Instructions

SENTINEL PRO™ COMBINATION SERIES

DESCRIPTION

Speakman SentinelPro™ Combination, SM-5010, unites Anti-Scald Thermostatic / Pressure Balance Shower/Bath Valve with integral Check Stops (CPV-TP), Trim (CPT-5001), Shower Arm with Wall Flange (S-2500), and Low Flow Single Function Shower Head (S-2272-E2).

SPECIFICATIONS

CPV-TP ANTI-SCALD THERMOSTATIC / PRESSURE BALANCE SHOWER VALVE:

CONNECTIONS: 1/2" Female Copper Sweat and 1/2" NPT Male at both the Inlets (Cold, Hot) & Outlets (Shower, Tub)

FLOW RATE: 1.5 gpm (5.7 L/min) or higher

COMPLIANCE: ASSE 1016 / ASME A112.1016 / CSA B125.16 & ASME A112.18.1 / CSA B125.1 Standards

CPT-5001 T/P VALVE TRIM:

FINISH: Polished Chrome

COMPLIANCE: ASME A112.18.1 / CSA B125.1 Standard

S-2500 SHOWER ARM WITH WALL FLANGE:

CONNECTIONS: 1/2" NPT Male Inlet & Outlet

FINISH: Polished Chrome

S-2272-E2 LOW FLOW SINGLE FUNCTION SHOWER HEAD:

CONNECTIONS: ½" NPT Female Inlet FLOW RATE: 2.0 gpm (7.6 L/min)

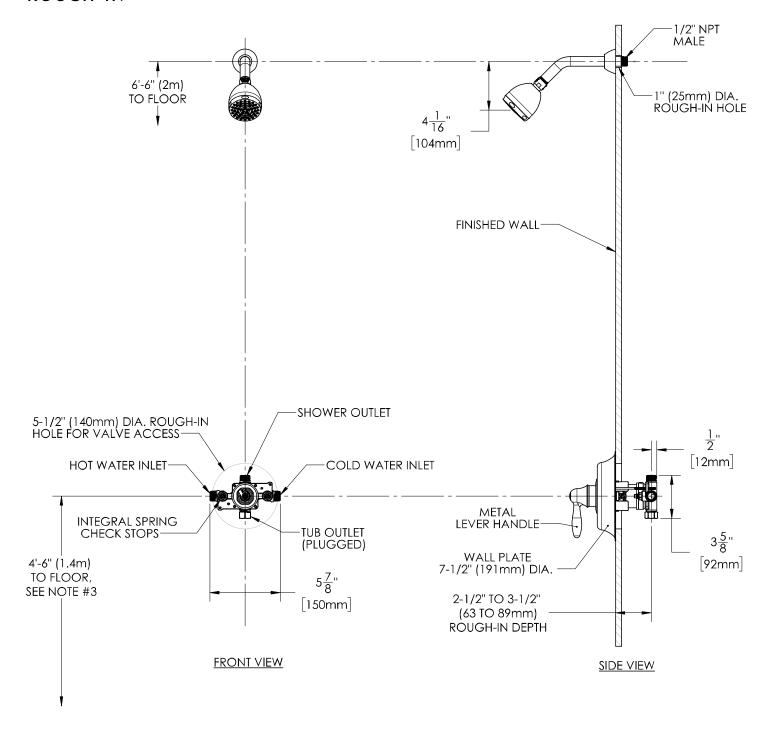
FINISH: Polished Chrome

COMPLIANCE: ASME A112.18.1 / CSA B125.1 Standard & WaterSense Certified

INSTRUCTIONS

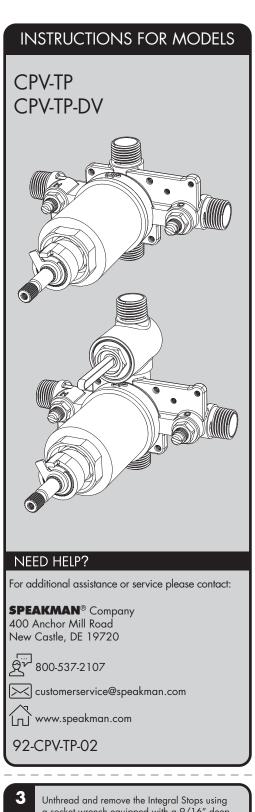
See individual products for installation of the components and warranty information.

ROUGH-IN

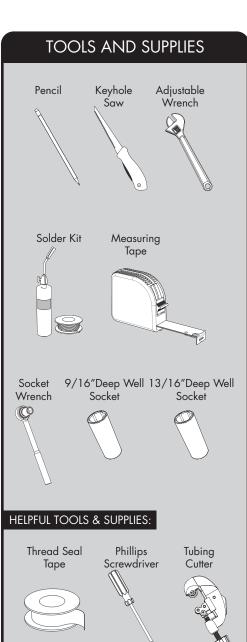


NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SPECIFIED AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- 2. ALL INLETS AND OUTLETS ARE 1/2" FEMALE COPPER SWEAT AND 1/2" MALE NPT UNLESS OTHERWISE SPECIFIED.
- FOR ADA MOUNTING LOCATIONS CONSULT ADAAG, ANSI A117.1, OR STATE REGULATIONS.









- Be sure to read instructions thoroughly before beginning installation
- Be sure to have properly adjusted the Temperature Limiting Stop (TLS) as outlined in this Installation
- Inspect all connections after installation of valve
- This valve has an operating range of 20-80 Psi.
- This valve is designed to be used in conjunction with a shower-head rated at 1.5 gpm (5.7 L/min) or higher flow rate.
- NOTE: This installation manual covers several models of valves. While the appearance of your valve may differ from those shown, the installation method is the same.
- Maximum water pressure: 125 PSI static; minimum water pressure: 20 PSI flowing; minimum cold supply temperature: 40° F; maximum hot supply temperature: 160° F; minimum hot supply temperature: 5° F above set point.

SAFETY TIPS

Cover your drain to prevent loss of parts. Be sure to wear eye protection while cutting pipe

MAINTENANCE

Your new Shower/Bath Valve is designed for years of trouble-free performance. Keep it looking new by cleaning it periodically with a soft cloth. The use of harsh chemicals and abrasives on any of the Speakman custom finish products may damage the finish and void the product warranty. Please be sure to only use approved cleaners. Please contact Speakman for any clarification of acceptable cleaners.

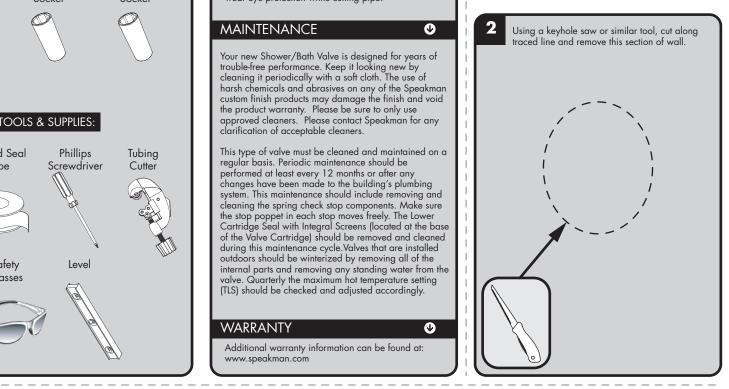
This type of valve must be cleaned and maintained on a regular basis. Periodic maintenance should be performed at least every 12 months or after any changes have been made to the building's plumbing system. This maintenance should include removing and cleaning the spring check stop components. Make sure the stop poppet in each stop moves freely. The Lower Cartridge Seal with Integral Screens (located at the base of the Valve Cartridge) should be removed and cleaned during this maintenance cycle. Valves that are installed outdoors should be winterized by removing all of the internal parts and removing any standing water from the valve. Quarterly the maximum hot temperature setting (TLS) should be checked and adjusted accordingly.

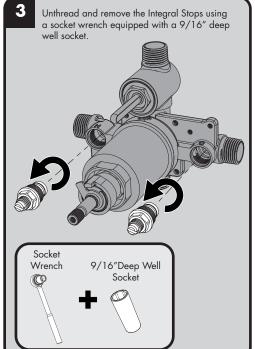
WARRANTY

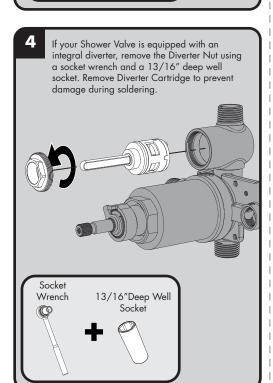
Additional warranty information can be found at:

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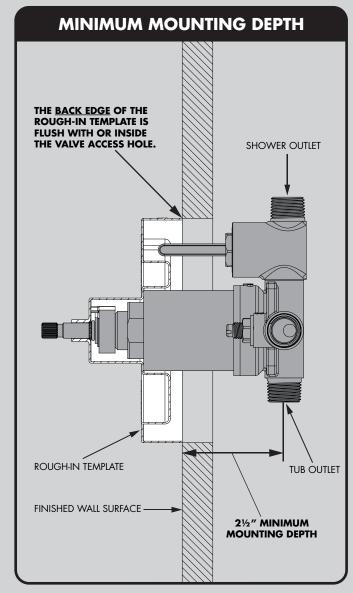
Referencing the supplied rough-in dimensions (located at the end of this manual), determine the preferred location of valve. Align the supplied rough-in template with this location and trace outline of template onto wall. 1'-9" (533mm) TO CENTERLINE OF TUB SPOUT (FOR TUB INSTALLATION) 4'-6" (1.4m) TO FLOOR (SHOWER INSTALLATION)

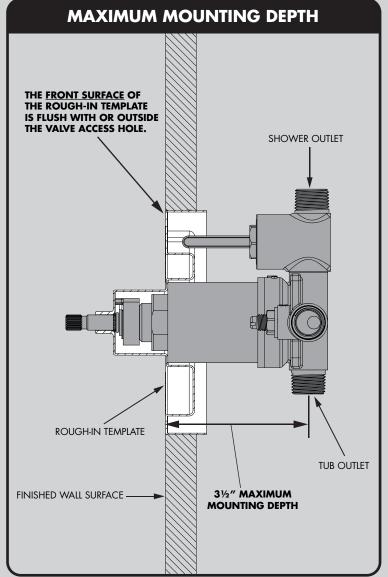


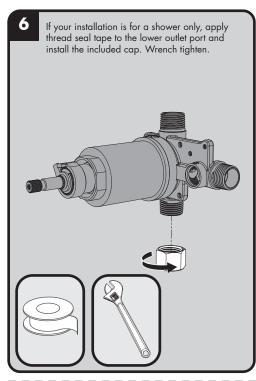


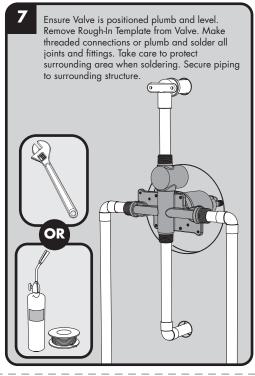


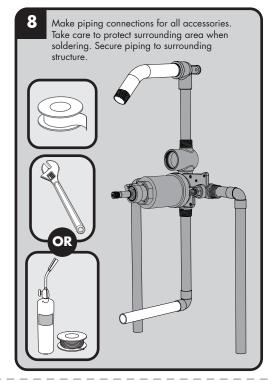
Install the Rough-In Template over the Shower Valve being sure the Rough-In Template sits flush against Shower Valve Bonnet. Following the rough-in dimensions for your model of valve (located ot the end of this manual) as well as the markings on the supplied rough in template, install valve at proper depth. The distance from the centerline of the inlet/outlet ports of the valve assembly to the finished wall MUST be between 2½" - 3½". See images below for reference.

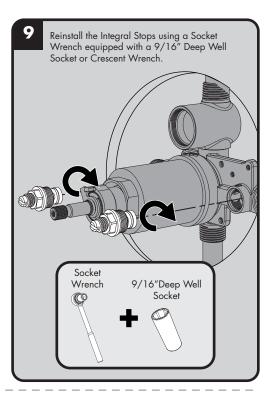


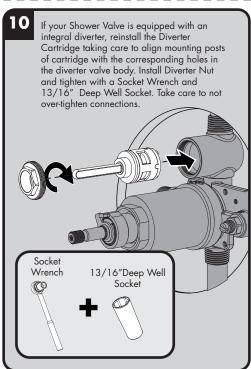






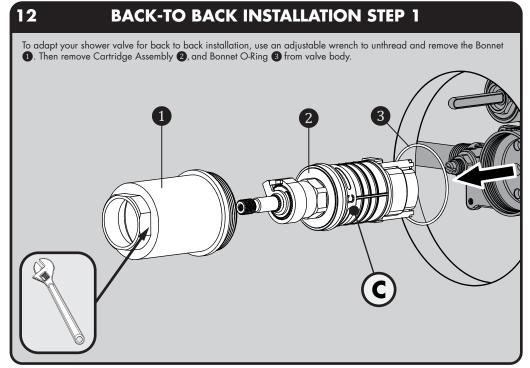


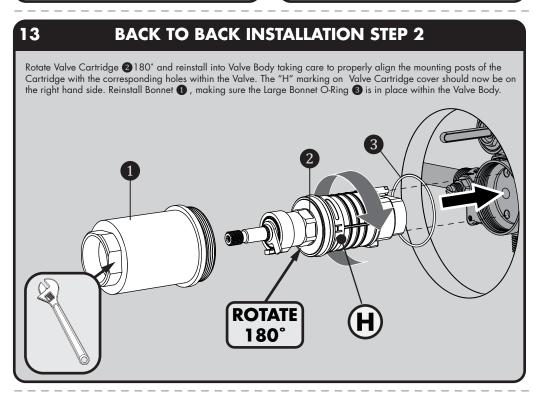


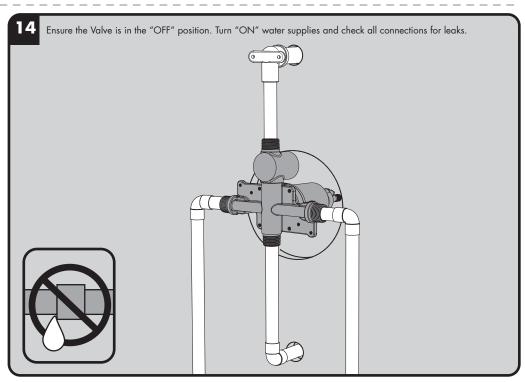




Installation, or have reversed inlet supplies, please proceed to **Step 12**



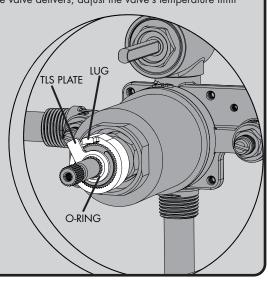


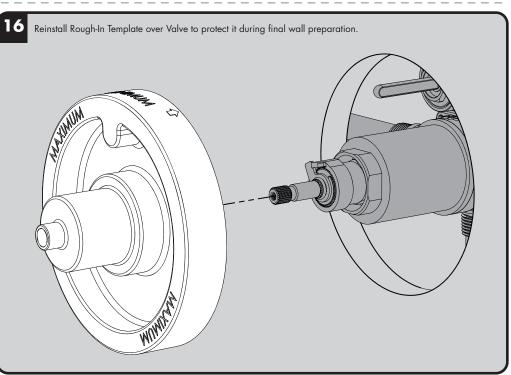


15 TEMPERATURE LIMIT ADJUSTMENT

The maximum hot water temperature setting adjustment (Temperature Limit Stop (TLS)) of the valve has been factory set at 110° F. Important- Check each valve installation with a thermometer to make sure the maximum hot water temperature is set to the recommended setting of 110° F maximum. To lower the limit of the maximum hot water temperature the valve delivers, adjust the valve's temperature limit stop (TLS) plate.

- Slip the retaining O-ring and the TLS plate towards the end of the spindle.
- With the water supplies on, rotate the valve spindle clockwise to the maximum desired hot water temperature.
- Position the TLS plate so it contacts the lug and therefore restricts the clockwise rotation of the spindle.
- Slip the retaining O-ring back into the groove of the spindle to hold the TLS plate in place
- Rotate the spindle counter-clockwise to the "Off" position.





CPV-TP / CPV-TP-DV SERVICE INSTRUCTIONS

Service instructions

Caution- Any repair or servicing of the valve may affect the maximum hot temperature setting of the valve. After working on the valve, make sure the maximum hot water temperature is set to the recommended setting of 110° F

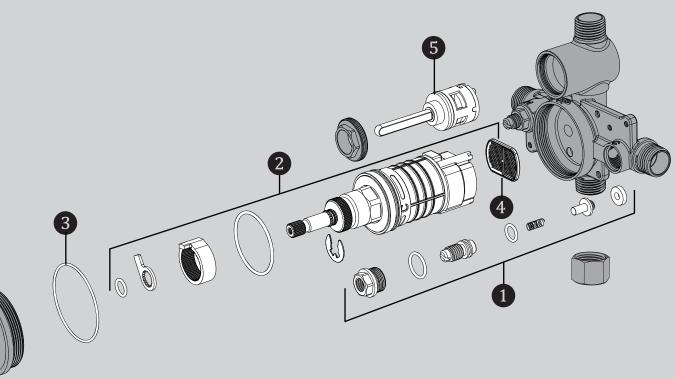
T/P Cartridge Removal

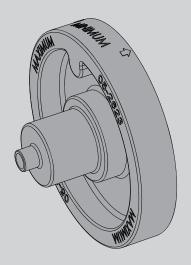
- 1) Shut off the hot & cold water supply integral stops at the valve. Remove valve trim from valve.
- 2) With the valve in the OFF position, remove the Bonnet by unthreading with an adjustable wrench. The cartridge
- 3) If necessary, remove the cartridge from the valve body by pulling on the valve spindle of the cartridge. Make sure the lower cartridge seal is installed in the bottom of the cartridge and not in the valve body. Inspect Lower Cartridge Seal with Integral Screens to verify they are debris free. If debris is present, remove Lower Cartridge Seal and clean Screen material.
- 4) Replace the necessary parts with new parts. When replacing the T/P cartridge, make sure that the Lower Cartridge Seal is properly installed in the recesses on the bottom of the cartridge. This Lower Cartridge Seal is positioned over the hot & cold inlet holes inside the body.
- 5) Make sure the large bonnet O-ring seal is installed and seated properly in the valve body. Reassemble the valve bonnet by threading it into the valve body with an adjustable wrench. Important- Adjust the valve's maximum hot water temperature to the recommended setting of 110° F. See Step #15 of the installation instructions for the TLS
- 6) Turn ON the hot & cold water supply integral stops. Check valve for leaks.
- 7) Reassemble the valve trim parts.

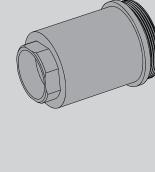
- **Spring Check Stop Parts Removal**1) Shut off hot and cold water supply valves to the integral stops of the valve. Remove valve trim from valve.
- 2) CLOSE integral stops by turning the stop spindles clockwise. Unscrew the stop's retaining nut with wrench. Carefully remove the retaining nut w/spindle, spring, and poppet assembly. Clean and/or replace the necessary parts. Reassemble the parts, reversing the above procedure. Repeat procedure on the other stop.
- 3) OPEN the integral stops by turning the stop spindles counter clockwise. Turn on the hot and cold water supply valves. Check for leaks.
- 4) Reassemble the trim parts.

CPV-TP / CPV-TP-DV REPAIR PARTS

SPEAKMAN®







	ITEM #	PART #	DESCRIPTION
	1	RPG05-0862	CHECK STOP REPAIR KIT
	2	RPG05-1109	T/P CARTRIDGE
Ī	3	RPG49-0012	BONNET O-RING
Ī	4	RPG49-0011	LOWER CARTRIDGE SEAL
	5	RPG05-0897	VOLUME CONTROL/DIVERTER CERAMIC REPAIR CARTRIDGE

NOTES:

COMPLIANCE:

ASME A112.18.1/CSA B125.1

Shower Valve ASSE1016

CONNECTIONS:

Hot/Cold Inlets: 1/2" Female Copper Sweat

½" NPT Male

Shower Outlet: 1/2" Female Copper Sweat

½" NPT Male

Tub Outlet: 1/2" Female Copper Sweat

½" NPT Male

(Cap included for Shower Only Connections)

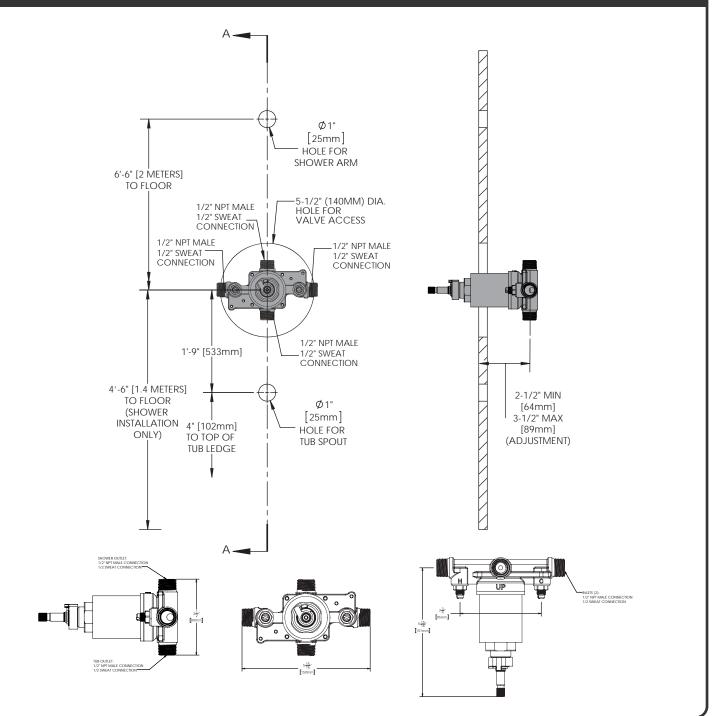
NOTES:

This valve is designed to be used in conjunction with a shower-head rated at 1.5 gpm (5.7 L/min) or higher flow rate

Contractor to supply necessary inlet connections.

DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR ADA MOUNTING LOCATIONS, CONSULT ADAAG, ANSI A117.1, AND STATE REGULATIONS.

DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE.



CPV-TP-DV ROUGH-IN DIAGRAM

NOTES:

COMPLIANCE:

ASME A112.18.1/CSA B125.1

Shower Valve ASSE1016

CONNECTIONS:

Hot/Cold Inlets: 1/2" Female Copper Sweat

½" NPT Male

Shower Outlet: ½" Female Copper Sweat

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Tub Outlet: ½" Female Copper Sweat

½" NPT Male

(Cap included for Shower Only Connections)

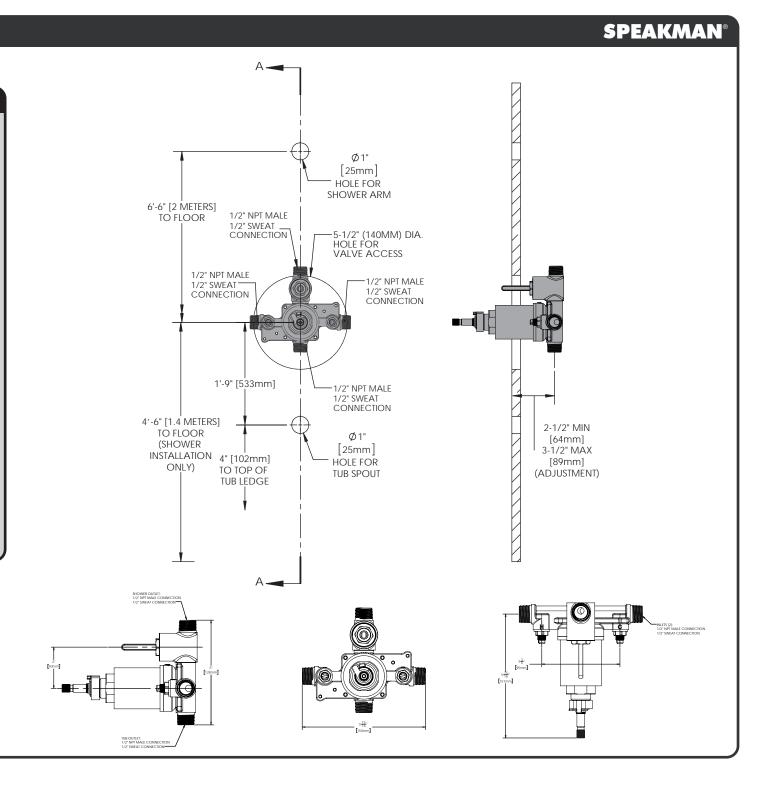
NOTES:

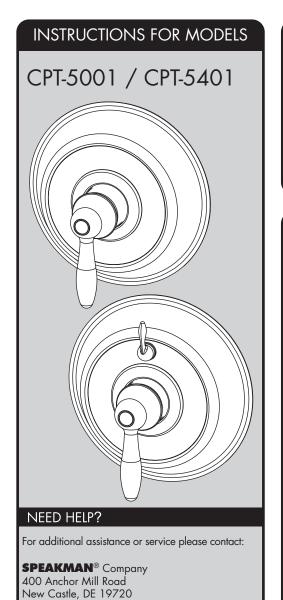
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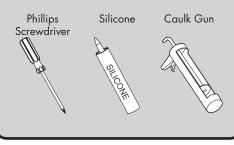
800-537-2107

www.speakman.com

92-CPT-5001-01

customerservice@speakman.com







- Do not over-tighten any connections or damage
- Be sure to read instructions thoroughly before beginning installation.
- This valve has an operating range of 20-80 psi.

SAFETY TIPS

Cover your drain to prevent loss of parts. Be sure to wear eye protection while cutting pipe.

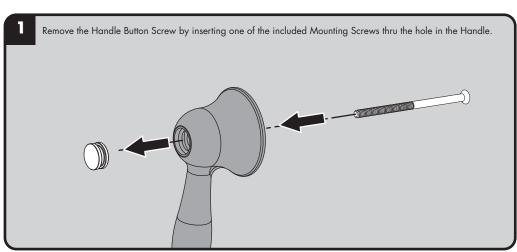
MAINTENANCE

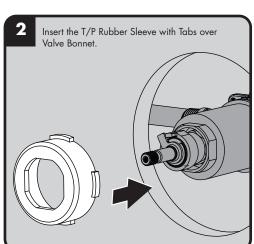
Your new Speakman Product is designed for years of trouble-free performance. Keep it looking new by cleaning it periodically with a soft cloth. The use of harsh chemicals and abrasives on any of the Speakman custom finish products may damage the finish and void the product warranty. Please be sure to only use approved cleaners. Please contact Speakman for any clarification of acceptable cleaners.

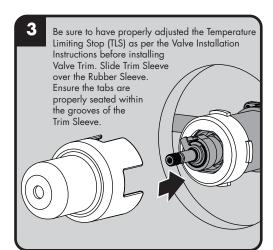
WARRANTY

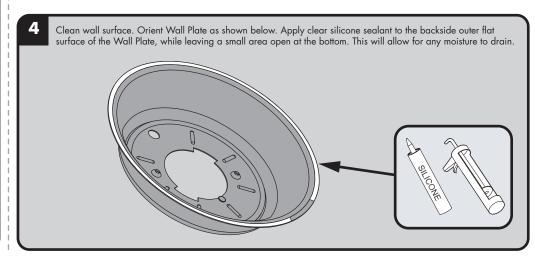
Additional warranty information can be found at: www.speakman.com

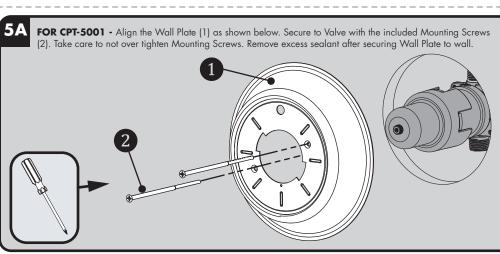
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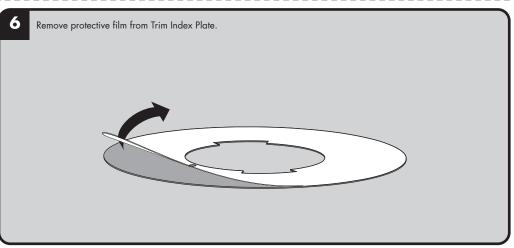


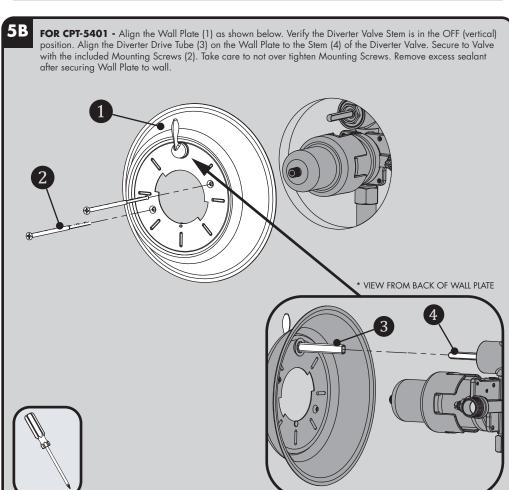


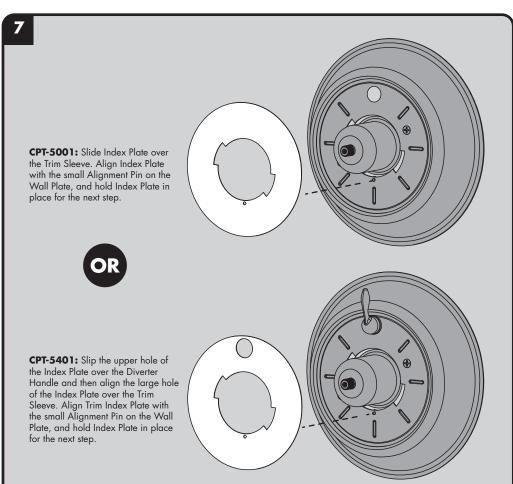


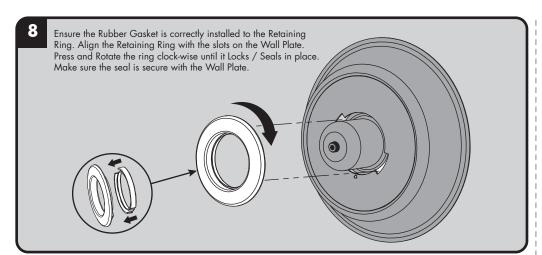


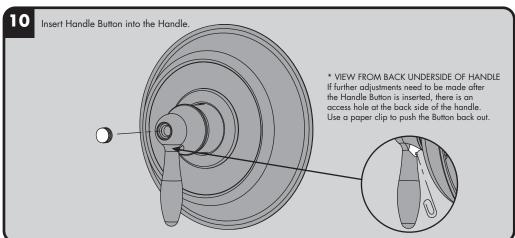


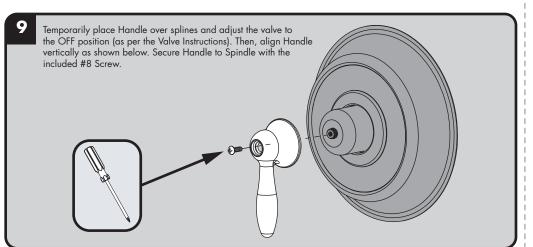


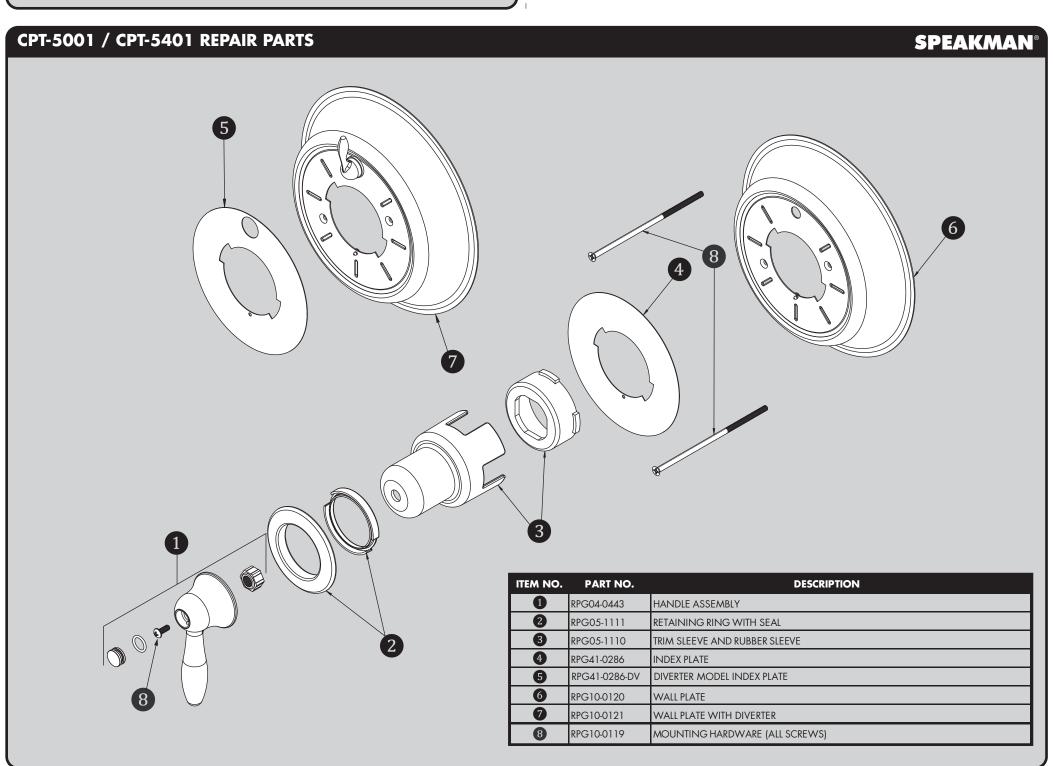


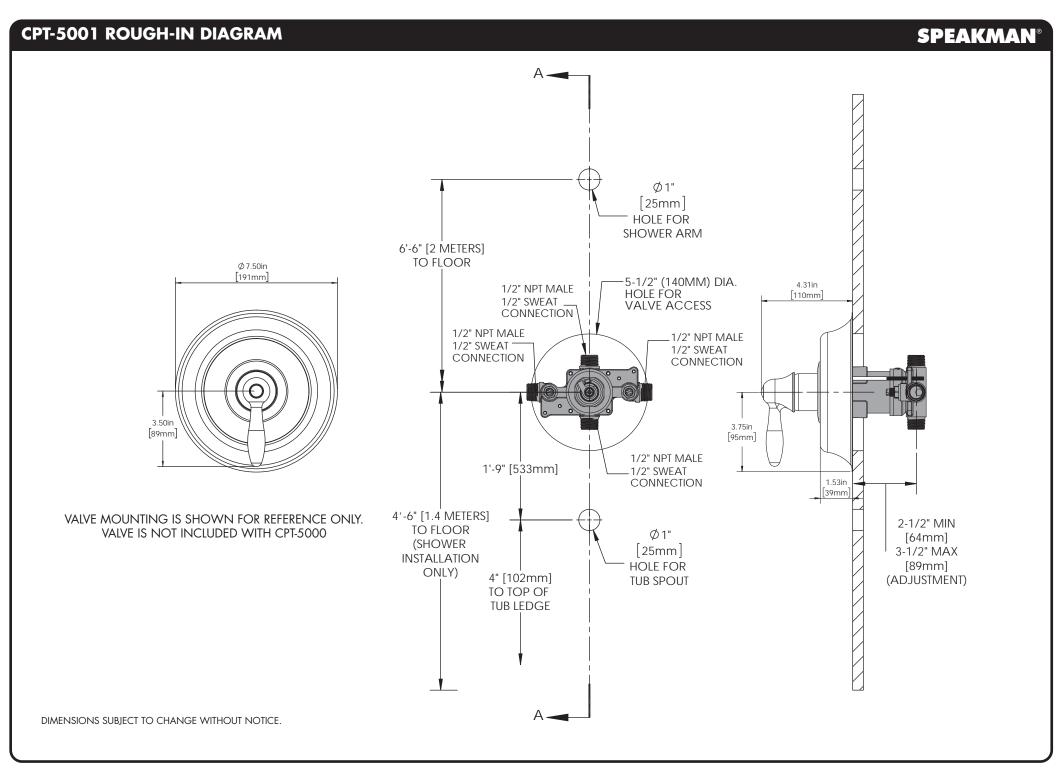


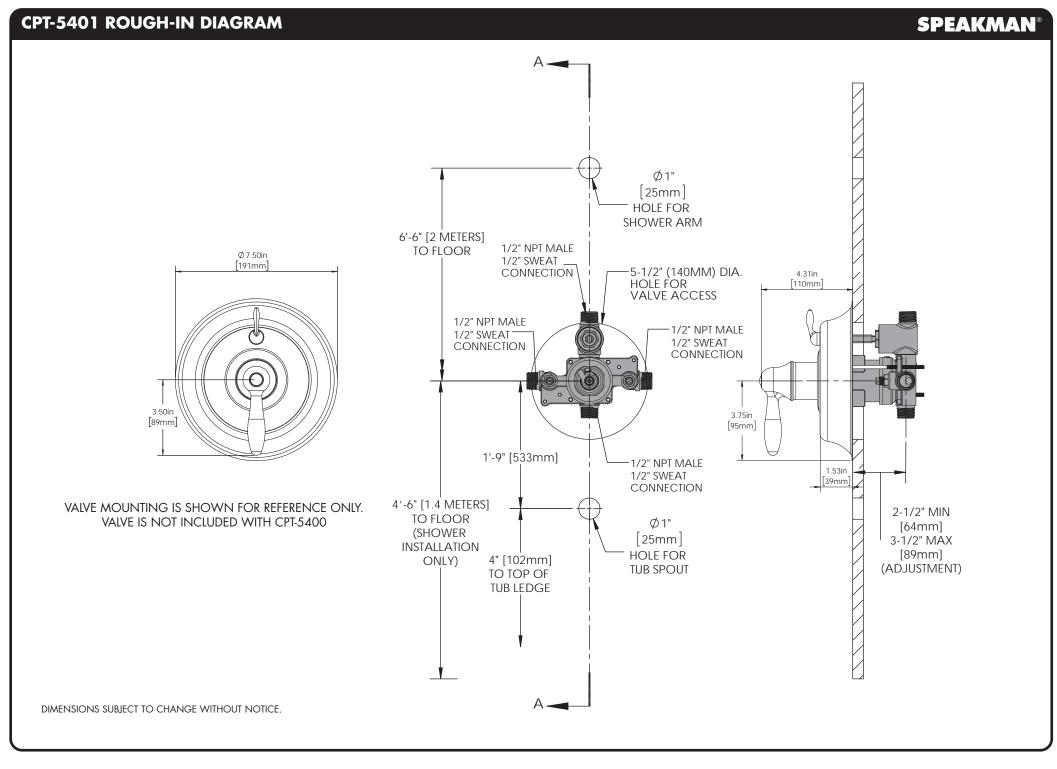






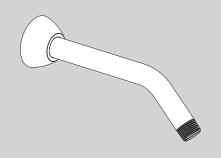






INSTRUCTIONS FOR MODELS

S-2500



NEED HELP?

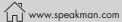
For additional assistance or service please contact:

SPEAKMAN® Company 400 Anchor Mill Road

New Castle, DE 19720



customerservice@speakman.com



92-S-2500-R5

TOOLS AND SUPPLIES

Thread Seal Tape



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IMPORTANT



Be sure to read instructions thoroughly before beginning installation. Do not overtighten any connections or damage may occur.

SAFETY TIPS

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Cover your drain to prevent loss of parts.

MAINTENANCE

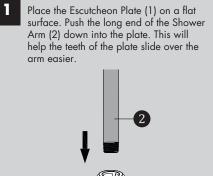
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Your new Shower Arm is designed for years of trouble-free performance. Keep it looking new by cleaning it periodically with a soft cloth. Avoid abrasive cleaners, steel wool and harsh chemicals as these will dull the finish and void your warranty.

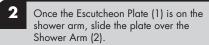
WARRANTY

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Additional warranty information can be found at: www.speakman.com

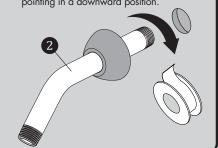


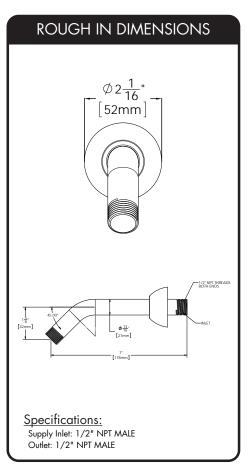
Position Escutcheon Plate (1) flat against wall.





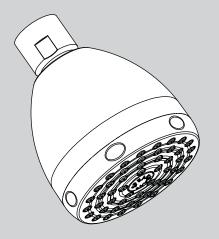
Apply Teflon Tape to inlet side of Shower Arm (2). Thread Shower Arm (2) into Female Pipe Fitting within the wall. Firmly tighten, and make sure Shower Arm (2) Outlet is pointing in a downward position.





INSTRUCTIONS FOR MODELS

S-2272-F2 S-2272-E15



NEED HELP?

For additional assistance or service please contact:

SPEAKMAN® Company 400 Anchor Mill Road New Castle, DE 19720



ع 800-537-2107 ع الم



customerservice@speakman.com



www.speakman.com

92-S-2272-01

TOOLS AND SUPPLIES

Thread Seal Tape

Adjustable Wrench





IMPORTANT



Be sure to read instructions thoroughly before beginning installation. Do not overtighten any connections or damage may occur.

SAFETY TIPS

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Cover your drain to prevent loss of parts.

MAINTENANCE



Periodic cleaning using a mild soap and warm water will help keep your Showerhead's appearance in its original condition.

For best results, dry immediately with a soft, clean cloth. <u>DO NOT USE</u> harsh and/or abrasive cleaners.

To help restore the finish, occasionally apply a non-abrasive wax to your showerhead body (follow manufacturers' instructions).

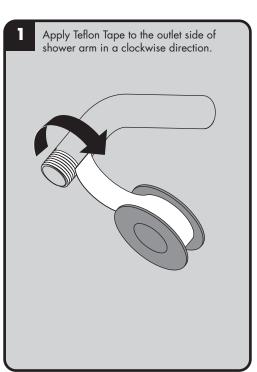
On CHROME PLATED SHOWER HEADS, a two (2) part white vinegar, one (1) part water solution can be used to break down excessive mineral deposits on the sprays. Let the showerhead soak in the solution for about ½ hour then rinse thoroughly. Brush off any remaining mineral deposits if necessary.

 $\underline{\text{DO NOT USE}}$ the vinegar/water treatment on any finish other than Chrome.

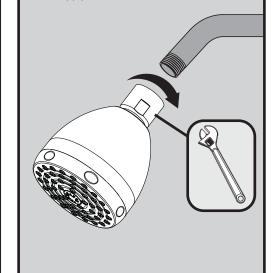
WARRANTY



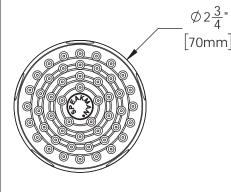
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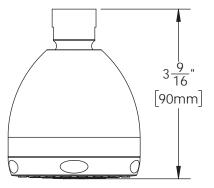


Thread Shower head onto shower arm by turning it in a clockwise direction. Tighten with adjustable wrench. Turn water supply on and check for leaks.



ROUGH IN DIMENSIONS





Model: S-2272-E2

Max. Flow Rate: 2.0 gpm (7.6 L/min)

Min. Flow Rate: 1.5 gpm (5.7 L/min) @ 45psi FOR USE WITH AUTOMATIC COMPENSATING VALVES RATED AT 6.6 L/MIN (1.75 GPM) OR LESS.

Model: S-2272-E15

Max. Flow Rate: 1.5 gpm (5.7 L/min)

Min. Flow Rate: 1.1 gpm (4.2 L/min) @ 45psi FOR USE WITH AUTOMATIC COMPENSATING VALVES RATED

AT 5.2 L/MIN (1.37 GPM) OR LESS.

Specifications:

Inlet: 1/2" NPSM FEMALE