

Dia Trim Series

Dia Trim Series with TA-10 Flow Control Spindle & T-12A Cap Assembly **Installation & Operation Instructions**

Model Numbers

TRIM ONLY

3500-CYL-B-TRM **Shower Valve Trim**

3501-CYL-B-TRM Shower Trim

3502-CYL-B-TRM Tub/Shower Trim

3503-H321-V-CYL-B-TRM Hand Shower Trim

3505-H321-V-CYL-B-TRM

Shower/Hand Shower Trim 3506-H321-V-CYL-B-TRM

Tub/Shower/Hand Shower Trim 3520-B-TRM

Shower Valve Trim

3521-B-TRM **Shower Trim**

3522-B-TRM Tub/Shower Trim

3530-B-TRM Shower Valve Trim

3531-B-TRM Shower Trim

3532-B-TRM **Tub/Shower Trim**

TRIM, TA-10, T-12A

3500CYLBTRMTC

Shower Valve Trim

3501CYLBTRMTC Shower Trim

3502CYLBTRMTC Tub/Shower Trim

3503H321CYLBTRMTC

Hand Shower Trim

3505H321CYLBTRMTC Shower/Hand Shower Trim

3506H321CYLBTRMTC Tub/Shower/Hand Shower Trim

3520BTRMTC

Shower Valve Trim

3521BTRMTC

Shower Trim

3522BTRMTC Tub/Shower Trim

3530BTRMTC Shower Valve Trim

3531BTRMTC

Shower Trim

3532BTRMTC

Tub/Shower Trim





3500-CYL-B-TRM 3500CYLBTRMTC







3502-CYL-B-TRM 3502CYLBTRMTC



3503H321CYLBTRMTC



3520BTRMTC



3520-B-TRM

3521-B-TRM 3521BTRMTC



3522-B-TRM



3505H321CYLBTRMTC



3530-B-TRM 3530BTRMTC



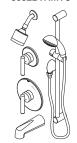


3531-B-TRM 3531BTRMTC





3532B-TRM 3532BTRMTC



3503-H321-V-CYL-B-TRM 3505-H321-V-CYL-B-TRM 3506-H321-V-CYL-B-TRM 3506H321CYLBTRMTC

Compliance

ASME A112.18.1/CSA B125.1



Warranty

Limited Lifetime - to the original end purchaser in consumer/residential installations.

5 Years - for industrial/commercial installations.

Refer to www.symmons.com/warranty for complete warranty information.

Go to www.symmons.com/register to register your Symmons product.

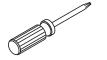
1. Recommended Tools

FIGURE 1













Adjustable Wrench

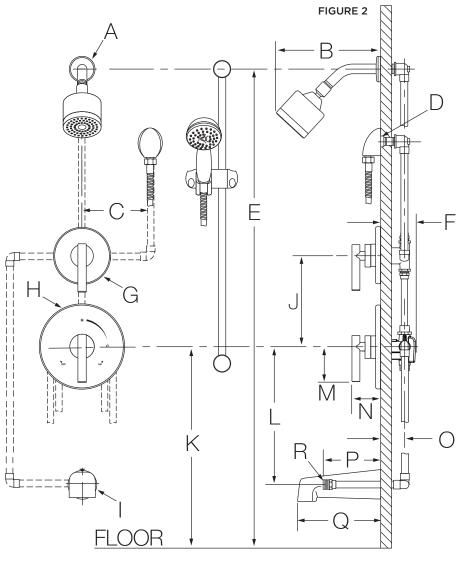
Allen Wrench (2mm)

Phillips Screwdriver

Safety Glasses

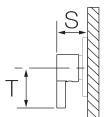
Thread Seal Tape

2. Dimensions

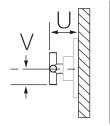


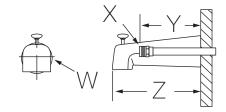
Measurements				
A Ø 2-1/2", 64 mm				
В	6-3/4", 171 mm			
С	6", 152 mm			
D	Male 1/2-14 NPT thread must be recessed 1/4" (6 mm) from finished wall			
Е	Ref. 77", 1956 mm			
F	3-1/2", 89 mm			
G	Ø 5", 127 mm			
Н	Ø 7-1/2", 191 mm			
I	Ø 2-1/2", 64 mm			
J	Ref. 10", 254 mm			
K	3500, 3501, 3503, 3505: Ref. 42", 1067 mm 3502, 3506: Ref. 32", 813 mm			
L Ref. 12", 305 mm				
М	3", 76 mm			
N	2-7/8", 73 mm			
0	Rough-in 2-3/8" ± 1/2", 60 mm ± 13 mm			
Р	5-1/4", 133 mm			
Q	7", 178 mm			
R	Male 1/2-14 NPT thread must protrude 4-7/16" (113 mm) from finished wall			
S	2-7/8", 73 mm			
Т	3", 76 mm			
U	2-7/8", 73 mm			
V	1-3/8", 35 mm			
W	Ø 2-1/2", 64 mm			
Х	Male 1/2-14 NPT thread must protrude 5-1/2" (140 mm) from finished wall			
Υ	5-1/2", 140 mm			
Z	7", 178 mm			







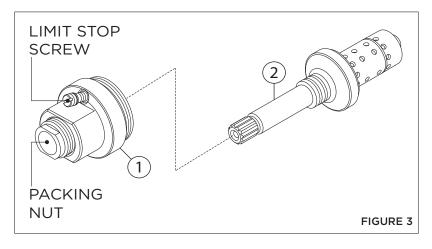




Notes:

- 1) Valve body and piping not included and shown as reference only.
- 2) Plaster shield (p/n T-176) for dry wall, plaster or other type walls 1/2" or greater.
- 3) All dimensions measured from nominal rough-in (see O as reference).
- 4) Dimensions subject to change without notice.

3. Parts Breakdown (Model Numbers Ending in TRMTC)



	Replacement Parts				
Item	Description	Part Number			
1	Cap Assy.	T-12A			
2	Flow Control Spindle	TA-10			

IMPORTANT: Model numbers ending in **TRMTC** coordinate with Temptrol pressure balancing valves ordered with Test Cap. The Test Cap is used to allow pressurization of system. **Do not** remove test cap from valve during wall construction, installation of valve or pressurization of system.

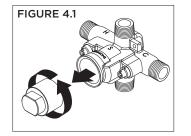
MARNINGS:

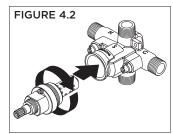
- Do not expose valve with test cap to heat for longer than 2 minutes when soldering copper tubing. Doing so may damage the internal components of the valve and will void the product warranty.
- Ensure test cap is tightened securely after soldering valve body.

4. Installation - Remove Test Cap (Model Numbers Ending in TRMTC)

Flow control spindle (TA-10) and cap assembly (T-12A) will come factory assembled for all model numbers ending in **TRMTC**. When ready to remove Test Cap and install trim, follow the instructions below:

- 1) Check for leaks around the valve assembly and all pipe fittings.
- 2) Remove test cap from valve (FIGURE 4.1).
- 3) If system is dirty, flush valve.
- 4) Thread flow control spindle and cap assembly into valve body. Turn clockwise to secure to valve (FIGURE 4.2).





5. Installation - Adjust Packing Nut (Model Numbers Ending in TRMTC)

- 1) Turn hot and cold supplies on. Valve will not operate unless both hot and cold water supply pressures are on.
- 2) Place handle over flow control spindle.
- 3) Tighten packing nut for positive frictional resistance as handle is rotated from shut-off position across adjustment range.

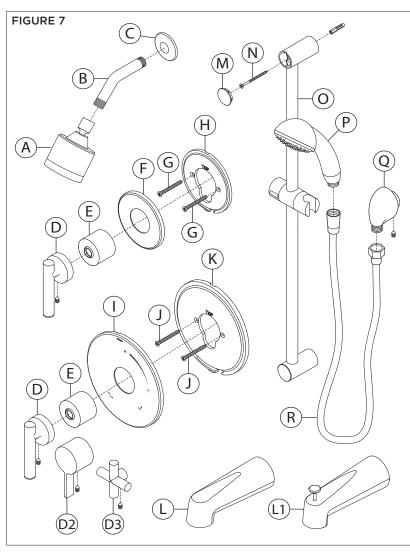
6. Installation - Setting Limit Stop Screw (Model Numbers Ending in TRMTC)

The temperature limit stop screw limits valve handle from being turned to maximum position resulting in excessive hot water discharge temperatures.

▲ WARNING: Failure to adjust limit stop screw properly may result in serious scalding.

- 1) Turn hot and cold supplies on. Valve will not operate unless both hot and cold water supply pressures are on.
- 2) Place handle on flow control spindle and open valve to maximum desired temperature.
- 3) Turn limit stop screw clockwise until it seats.

7. Parts Breakdown





*Order in-line vacuum breaker (EF-109) for hand shower systems without dual checks.

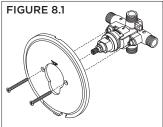
Replacement Parts						
Item	Description	Part Number				
Α	Showerhead	352SH				
B C	Shower Arm Flange	300S				
D D1	Standard Handle Blade Handle	T-242A RTS-090				
D1 D2	Cross Handle	RTS-090 RTS-091				
Е	Dome Cover	T-19/20				
F G H	Diverter Escutcheon Screws Mounting Plate	T-416A				
J K	Shower Escutcheon Screws Mounting Plate	Brass: RTS-009 Plastic: RTS-010				
L L1	Tub Spout Diverter Tub Spout	067 352TS				
M N O	Slide Bar Assembly	RA-009				
Р	Hand Shower	EF-100				
Q	Wall Elbow	EF-105				
R	60" Hose	RTS-045				

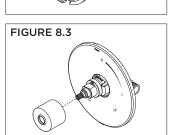
Notes:

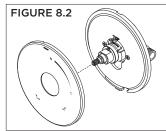
- 1) Append appropriate suffix for premium finish.
- 2) Append appropriate flow rate to showerhead or hand shower for low flow.
- 3) Apply a bead of silicone around the perimeter of all shower trim installed flush to the finished wall. Leave opening on bottom of escutcheons for weep hole.
- 4) Apply plumber tape to all threaded connections.

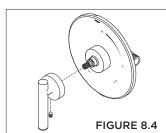
8. Installation - Shower Valve Trim

- 1) Secure large mounting plate to Temptrol pressure balancing valve using mounting screws (FIGURE 8.1).
- 2) Secure large shower escutcheon to mounting plate. Tabs should snap in place (FIGURE 8.2).
- 3) Install dome cover by turning clockwise (FIGURE 8.3).
- 4) Install handle to shower valve. Secure with set screw (FIGURE 8.4).



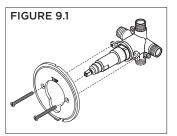


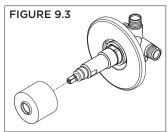


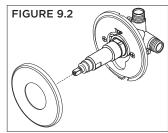


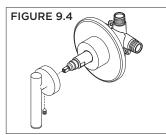
9. Installation - Diverter Valve Trim

- 1) Secure small mounting plate to Symmons diverter valve using mounting screws (FIGURE 9.1).
- 2) Secure small diverter escutcheon to mounting plate. Tabs should snap in place (FIGURE 9.2).
- 3) Install dome cover by turning clockwise (FIGURE 9.3).
- 4) Install handle to diverter valve. Secure with set screw (FIGURE 9.4).



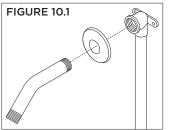


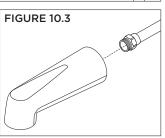


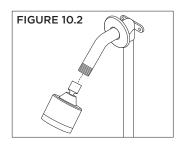


10. Installation - Showerhead & Tub Spout

- 1) Attach arm and flange to shower pipe. Turn clockwise to tighten (FIGURE 10.1).
- 2) Install showerhead to shower arm. Turn clockwise to tighten (FIGURE 10.2).
- 3) Install tub spout to stub out pipe. Turn clockwise to tighten (FIGURE 10.3).

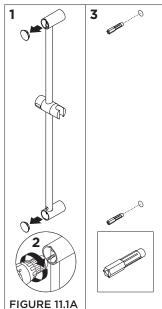






11. Installation - Slide Bar Assembly

- 1a) Dry Wall Option: Remove upper and lower caps from slide bar brackets. Place slide bar into desired position. Using brackets as a guide, carefully drill 3/16" holes into wall. Remove slide bar and install anchors. Note: Slide bar holes and bracket holes must be aligned before drilling. Before drilling bottom hole, make sure slide bar is plumb (FIGURE 11.1A).
- 1b) Stud Option: Remove upper and lower caps from slide bar brackets. Place slide bar into desired position. Using brackets as a guide, carefully drill 1/8" pilot holes into stud. Note: Slide bar holes and bracket holes must be aligned before drilling. Before drilling bottom hole, make sure slide bar is plumb (FIGURE 11.1B).
- 2) With slide bar in position, secure to wall using screws. Replace upper and lower caps onto slide bar brackets (FIGURE 11.2).
- 3) Install wall elbow to stub out pipe. Tighten set screw to secure (FIGURE 11.3).
- 4) Attach small end of hand shower hose to wall elbow. Turn clockwise to tighten (FIGURE 11.4).
- 5) Attach large end of hand shower hose to hand shower wand. Turn clockwise to tighten (FIGURE 11.5).



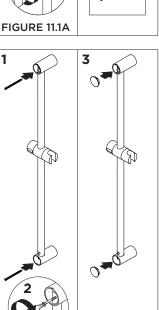
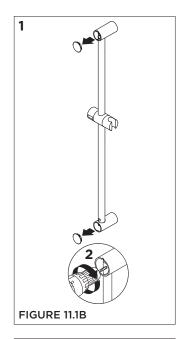
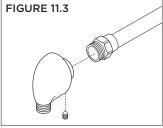
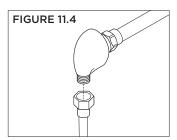
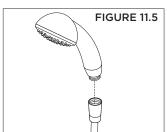


FIGURE 11.2



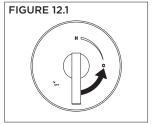


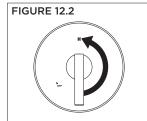


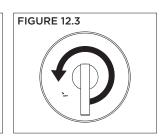


12. Operation (Temperature Control)

- Turn shower handle counter-clockwise approximately 1/4 turn to put valve in cold position (FIGURE 12.1).
- 2) Turn shower handle counter- clockwise approximately 1/2 turn to put valve in warm position (FIGURE 12.2).
- 3) Turn shower handle counter- clockwise approximately 3/4 turn to put valve in hot position (FIGURE 12.3).



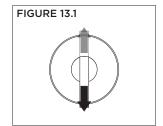


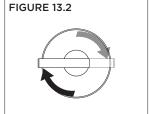


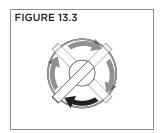
13. Operation (Dual Outlet Diverter Control)

Note: Additional handle positions for same output are illustrated.

- 1) Cartridge is factory set to divert to function 1 (FIGURE 13.1).
- 2) Turn handle to position 2 to divert to function 2 (FIGURE 13.2).
- 3) Turn handle to position 3 to share functions 1 and 2 (FIGURE 13.3).

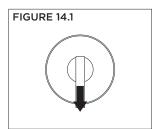


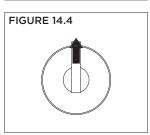


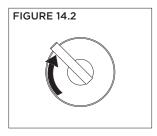


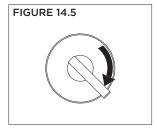
14. Operation (Triple Outlet Diverter Control)

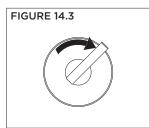
- 1) Cartridge is factory set to divert to function 1 (FIGURE 14.1).
- 2) Turn handle to position 2 to divert to function 2 (FIGURE 14.2).
- 3) Turn handle to position 3 to divert to function 3 (FIGURE 14.3).
- 4) Turn handle to position 4 to share functions 2 and 3 (FIGURE 14.4).
- 5) Turn handle to position 5 to share functions 1 and 3 (FIGURE 14.5).
- 6) Turn handle to position 6 to share functions 1 and 2 (FIGURE 14.6).











15. Troubleshooting Chart

Problem	Cause	Solution
Finish is spotting.	Elements in water supply may cause water staining on finish.	Clean finished trim area with a soft cloth using mild soap and water or a non-abrasive cleaner and then quickly rinse with water.