ROUGH-IN FOR THE FOLLOWING:
1- LAZY WASTE OUTLET - 1-1/2" O.D. TUBE FOR COMPRESSION JOINT.
2- MIXING VALVE INLET - 1/2" NPS HOT AND COLD VALVE SUPPLIES.
3- MOUNTING LOCATIONS - 9/16" DIAMETER MOUNTING HOLES (4) PLACES, 9/16" x 1-1/8" SLOTS (4) PLACES.
4- BACKSPLASH MOUNTING - (3) "S" TYPE MOUNTING CLIPS. CLIPS HAVE (2) 9/32" x 3/4" SLOTS FOR FASTENERS.
5- TRAP COVER MOUNTING - (2) MOUNTING BRACKETS. EACH BRACKET HAS (2) 3/8" x 9/16" SLOTS FOR FASTENERS.
6- TRAP ENCLOSURE FLANGE MOUNTING - 7/32" x 3/8" SLOTS (5) PLACES.
7- FOR -SO SENSOR OPERATED CONTROLS. PROVIDE 120V/60Hz/3 AMPS (MAX.) ELECTRIC RECEPTACLE TO CONNECT FACTORY SUPPLIED 120 VAC TO 9VDC 100 mA PLUG-IN TRANSFORMER. NOTE: RECEPTACLE MUST BE WIRED TO A GFI PROTECTED CIRCUIT. FIXTURE MUST BE EARTH GROUNDED PER N.E.C. (NATIONAL ELECTRICAL CODE).

NOTE: THESE INSTRUCTIONS ARE NOT INTENDED FOR INSTALLATION OF UNITS WITH SUFFIX OPTION - EB (ENCLOSED BOTTOM).

INSTALLATION INSTRUCTIONS:
SOME AVAILABLE OPTIONS FOR THIS UNIT MAY ALTER THESE ROUGH-IN INSTRUCTIONS. CONTACT FACTORY FOR DETAILS. UNIT IS INTENDED FOR INSTALLATION ON A FINISHED WALL WITH APPROPRIATE WALL BACKING. 3/8" UNC WALL ANCHORS AND MOUNTING HARDWARE ARE NOT INCLUDED. UNIT INCLUDES WASTE PIPING AND 1-1/2" TUBULAR P-TRAP. VALVE ASSEMBLY IS SHIPPED LOOSE FOR MOUNTING TO WALL. INCLUDES VALVE AND TRAP ENCLOSURE, SHIPPED LOOSE.
ROUGH-IN FOR THE FOLLOWING:
1 - LAVY WASTE OUTLET - 1-1/2" O.D. TUBE FOR COMPRESSION JOINT.
2 - MIXING VALVE INLET - 1/2" NPS HOT AND COLD VALVE SUPPLIES.
3 - MOUNTING LOCATIONS - 9/16" DIAMETER MOUNTING HOLES (4) PLACES, 9/16" x 1-1/8" SLOTS (4) PLACES.
4 - BACKSPLASH MOUNTING - (3) "S" TYPE MOUNTING CLIPS. CLIPS HAVE (2) 9/32" x 3/4" SLOTS FOR FASTENERS.
5 - TRAP COVER MOUNTING - (2) MOUNTING BRACKETS. EACH BRACKET HAS (2) 3/8" x 9/16" SLOTS FOR FASTENERS.
6 - TRAP ENCLOSURE TRAP MOUNTING - 9/32" x 3/8" SLOTS (4) PLACES.
7 - FOR - SO SENSOR OPERATED CONTROLS. PROVIDE 120V/60Hz/3 AMPS (MAX.) ELECTRIC RECEPTACLE TO CONNECT FACTORY SUPPLIED 120 VAC TO 9VDC 100 mA PLUG-IN TRANSFORMER. NOTE: RECEPTACLE MUST BE WIRED TO A GFI PROTECTED CIRCUIT. FIXTURE MUST BE EARTH GROUNDED PER N.E.C. (NATIONAL ELECTRICAL CODE).

INSTALLATION INSTRUCTIONS:
SOME AVAILABLE OPTIONS FOR THIS UNIT MAY ALTER THESE ROUGH-IN INSTRUCTIONS. CONTACT FACTORY FOR DETAILS. UNIT IS INTENDED FOR INSTALLATION ON A FINISHED WALL WITH APPROPRIATE WALL BACKING. 3/8" UNC WALL ANCHORS AND MOUNTING HARDWARE ARE NOT INCLUDED.
UNIT INCLUDES WASTE PIPING AND 1-1/2" TUBULAR P-TRAP. VALVE ASSEMBLY IS SHIPPED LOOSE FOR MOUNTING TO WALL. INCLUDES VALVE AND TRAP ENCLOSURE, SHIPPED LOOSE. VALVE INCLUDES 1/2" STAINLESS STEEL FLEX CONNECTORS.
INSTALLATION INSTRUCTIONS:

A— REMOVE BOTTOM COVER ① AND TRAP ENCLOSURE ② FROM WASHBASIN ③ BY REMOVING BUTTON HEAD SCREWS ④. SEE DETAIL A.

B— REFERENCE APPROPRIATE ROUGH-IN SHEET FOR WASHBASIN ANCHORING LOCATIONS. REFERENCE DRAWING #9927-125-001 FOR FIXTURE ASSEMBLY AND INSTALLATION DETAILS.

C— LOCATE AND SECURE BRACKETS ⑤ TO WALL, USING INSTALLER PROVIDED ANCHORING HARDWARE. WALL ANCHORS AND ANCHORING HARDWARE ARE BY OTHERS.

D— REASSEMBLE BOTTOM COVER ① TO WASHBASIN ③.

E— ASSEMBLE TRAP ENCLOSURE ② TO BOTTOM COVER COVER ① AND SECURE TO WASHBASIN ③. SECURE TRAP ENCLOSURE ② TO WALL ANCHORED BRACKETS ⑤ AND ANCHOR TO WALL AT LOWER ENCLOSURE ANCHORING POINTS USING INSTALLER PROVIDED FASTENERS.
**INSTALLATION INSTRUCTIONS:**

**NOTE:** SOME AVAILABLE OPTIONS MAY AFFECT INSTALLATION. REFER TO ALL INSTALLATION SHEETS FOR SPECIFIED OPTIONS BEFORE PROCEEDING.

A- PROVIDE REQUIRED WALL BACKING AND ROUGH-INS AS SPECIFIED ON APPROPRIATE ROUGH-IN DRAWING.

B- FOR -H HAND OPERATED UNITS, ASSEMBLE PUSHBUTTONS TO WASHBASIN. CONNECT POLYETHYLENE 1/8" O.D. AIR LINES TO PUSHBUTTONS BY HAND TIGHTENING FERRULE NUTS PROVIDED. SEE DETAIL A.

C- ASSEMBLE WATER SPOUTS TO WASHBASIN. CONNECT POLYETHYLENE 1/4" O.D. WATER LINES TO SPOUTS WATER-TIGHT WITH FERRULE NUTS PROVIDED. SEE DETAIL B.

D- MOUNT S-CLIPS TO THE WALL AT 35-1/2" ABOVE FINISHED FLOOR. SEE DETAIL B. INSTALL WASHBASIN ENGAGING THE BACKSPASH OVER S-CLIPS. ANCHOR WASHBASIN TO WALL (FASTENERS AND WALL ANCHORS BY OTHERS).

E- FOR -H HAND OPERATED UNITS, INSTALL AIR-CONTROL VALVE ASSY. (MOUNTING HARDWARE BY OTHERS) ON WALL WITHIN TRAP ENCLOSURE AREA. REFERENCE STEP K. CONNECT 1/8" O.D. AIR LINES FROM PUSHBUTTONS TO VALVE TIMERS HAND TIGHT USING FERRULE NUTS PROVIDED. SEE DETAIL A.

F- FOR -SO SENSOR OPERATED UNITS, MAKE REFERENCE TO THE APPROPRIATE DRAWING FOR INSTALLATION OF THE SOLENOID VALVE AND ELECTRICAL CONNECTIONS.

G- CONNECT 1/4" O.D. WATERLINES FROM SPOUTS TO VALVE ASSEMBLY. WATERTIGHT WITH FERRULE NUTS PROVIDED.

H- AFTER THOROUGHLY FLUSHING SUPPLY LINES, MAKE UP CONNECTIONS FROM 1/2" NPTE VALVE INLETS TO SUPPLY STUB OUTS. CONNECTOR HOSES AND SUPPLY STUB OUTS PROVIDED BY THE INSTALLER.

I- NOTE: ALL WASTE PIPING AND CONNECTIONS TO WALL ARE FACTORY PROVIDED. ASSEMBLE WASTE PIPING AND MAKE-UP THE LAVY WASTE CONNECTION (1-1/2" O.D. COMPRESSION). SEE THE APPROPRIATE REFERENCE DRAWING FOR PARTS.

J- TURN ON WATER SUPPLY. CHECK FOR LEAKS. ON -H VALVE ADJUST TIMERS TO GET DESIRED WATER CYCLE LENGTH.

K- MOUNT TRAP ENCLOSURE BRACKETS TO WALL (FASTENERS AND ANCHORS BY OTHERS). ASSEMBLE TRAP ENCLOSURE TO BRACKETS WITH SCREWS PROVIDED. SEE DETAIL C. ALSO USE S-CLIPS TO MOUNT ENCLOSURE TO WALL AT RETURN (WALL ANCHORS BY OTHERS). SEE DETAIL D. NOTE: THIS STEP NOT DONE IF OPTION -LE LESS TRAP ENCLOSURE SPECIFIED.
## Reference Drawings

<table>
<thead>
<tr>
<th>Repair Parts</th>
<th>Drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Metering Servomotor (-F)</td>
<td>9955-001-003</td>
</tr>
<tr>
<td>Metering Servomotor (-H)</td>
<td>9955-000-003</td>
</tr>
<tr>
<td>Air-Control Valve Body</td>
<td>9975-090-001</td>
</tr>
<tr>
<td>Checkstop (-ST Single Temp. Only)</td>
<td>9956-040-003</td>
</tr>
<tr>
<td>Sensor/Solenoid (-SO) (24VAC)</td>
<td>9955-015-002</td>
</tr>
<tr>
<td>Sensor/Solenoid/PPZ (-SO) (9VDC)</td>
<td>9955-019-002</td>
</tr>
<tr>
<td>Hand Button</td>
<td>9957-300-001</td>
</tr>
<tr>
<td>Foot Button</td>
<td>9957-200-001</td>
</tr>
</tbody>
</table>

## Valve Installation

### MX–T/P Valves:

- After thoroughly flushing supply lines, make up connections to supply stub outs and valve inlets with installer provided flexible hose. Note: MX–T/P valve supply inlets are 1/2" NPTE.

### Optional – ST (Single Temp.)

- After thoroughly flushing supply line, make up connection to supply stub out and valve inlet with flexible hose provided. Note: –ST valves include flexible hose with 1/2" NPSI connections. Flexible hose ends will accommodate 1/2" NPT male adapter.

### See appropriate servomotor reference drawings for valve details and timing instructions.

## MX T/P Temperature Valve Adjustment

### D–
Loosen locknut shown.

### E–
Turn on fixture and run water for at least 2 minutes. Allow water to stabilize.

### F–
Use an 1/8” Allen wrench to turn adjustment stem counter-clockwise for warmer or clockwise for cooler outlet water temperature.

### G–
Tighten locknut to prevent accidental or unauthorized temperature adjustment.

### H–
Re-check outlet temperature.
**INSTALLATION INSTRUCTIONS**

**NOTE:** INSTALL SPOUTS PRIOR TO SECURING FIXTURE TO WALL.

A—REMOVE BRASS NUT 1 AND WASHER 2 FROM THE BASE 3 OF SPOUT 4. DO NOT REMOVE RUBBER GASKET 5.

B—FROM ABOVE DECK 6: MAKE SURE RUBBER GASKET 5 IS PROPERLY SEATED WITHIN THE BASE 3 OF SPOUT 4. FEED TUBE 7 AND UNION FITTING 8 THRU PUNCHED OPENING. POSITION SPOUT 3 ON DECK 6 WITH ANTI-ROTATION PIN 9 THRU DECK PUNCHING ANTI-ROTATION SLOT.

C—FROM BELOW DECK 6: REASSEMBLE BRASS NUT 1 AND WASHER 2 TO THE BASE 3 OF SPOUT 4. MAKE SURE THAT PIN 9 IS IN THE PUNCHING SLOT AND THAT GASKET 5 SEALS PROPERLY BEFORE TIGHTENING.

D—CONNECT POLYETHYLENE 1/4” O.D. WATER LINE 10 TO UNION FITTING 8 WATERTIGHT WITH THE FERRULE NUT PROVIDED. REFER TO THE GENERAL INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS.
FOR BEST RESULTS INSTALL SOAP RESERVOIR FILL HOLE DIRECTLY BELOW SOAP FILLER ON DECK WITH REFILL TUBE AS SHORT AND STRAIGHT AS POSSIBLE TO FACILITATE REFILL OF SOAP WITHOUT BACKUP OR OVERFLOW.

A- INSTALL SOAP RESERVOIR 1 TO WALL INSIDE THE TRAP ENCLOSURE USING THE MOUNTING BRACKETS 2 PROVIDED. WALL ANCHORS AND FASTENERS ARE BY OTHERS.

B- INSTALL SOAP FILLER ASSEMBLY 3 TO DECK.

C- ATTACH THE 1-1/4" O.D. REFILL TUBE 4 TO SOAP FILLER ASSEMBLY 3 & SOAP RESERVOIR 1 WITH THE HOSE CLAMPS PROVIDED.

D- INSTALL SOAP DISPENSER(S) 5 ONTO DECK BY ALIGNING ANTI-ROTATION PIN WITH KEY HOLE. NOTE THAT GASKET AND WASHER ARE LOCATED BENEATH THE DECK.

E- ATTACH THE 3/8" O.D. TUBING 6 TO THE DISPENSER(S) 5 & RESERVOIR 1. NOTE: CHECK VALVE(S) 7 MUST BE FIELD SPLICED INTO TUBING 6 & INSTALLED WITH RESPECT TO DIRECTION OF FLOW.

F- TO FILL SOAP RESERVOIR, REMOVE THE FILLER PLUG FROM THE SOAP FILLER ADAPTER, SLOWLY POUR SOAP DOWN OPENING AND REPLACE PLUG.
TWO STATION WIRING DIAGRAM SHOWN

-BAT BATTERY OPTION

4 SOLENOIDS PER 1 BAT. PACK

(6) X 1.5V AA BAT. PACK

STANDARD

TRANSFORMER
120VAC/9VDC

INSTALLATION INSTRUCTIONS:

A— USING APPROPRIATE INSTALLATION INSTRUCTIONS, MOUNT FIXTURE TO WALL AND MAKE-UP WASTE PIPING CONNECTIONS. SENSOR OR ELECTRONIC PUSHPUTTON ARE FACTORY INSTALLED. POWER SUPPLY AND VALVE SHIPPED LOOSE.

B— INSTALL SOLENOID VALVE ASSEMBLY (2) ON THE WALL (FASTENERS AND WALL ANCHORS BY OTHERS), MAKING SURE THAT THE VALVE WILL BE WITHIN BOTTOM ENCLOSURE.

C— CONNECT WATER SUPPLY (AFTER FLUSHING LINES) TO VALVE, AND VALVE RISER TO SPOUTS AS PER UNIT INSTALLATION INSTRUCTIONS.

D— CONNECT SOLENOID VALVE, POWER SUPPLY AND SENSOR WIRING AS SHOWN ON DETAIL.

E— COMPLETE THE INSTALLATION OF THE UNIT ACCORDING TO THE UNITS INSTALLATION INSTRUCTIONS.

NOTE:

1— PLUG-IN TRANSFORMER INCLUDES BUILT-IN SECONDARY FUSE, IN THE EVENT OF POWER SURGE TRANSFORMER MAY REQUIRE REPLACEMENT.

2— ELECTRICAL RECEPTACLE MUST BE WIRED TO A GFI PROTECTED CIRCUIT. FIXTURE MUST BE EARTH GROUNDED PER N.E.C. (NATIONAL ELECTRICAL CODE).
**INSTRUCTIONS:**

A– Disconnect sensor from power supply.

B– Create a short circuit between the positive and negative connections on the sensor for five seconds. **WARNING:** Do not create a short circuit on the power supply or while the sensor is connected to the power supply.

C– Reconnect the sensor to the power supply.

D– Within 5 seconds of making the connection, place hand 2 to 4 inches from the sensor.

E– Once red light begins flashing quickly, move hand to preferred distance and wait for light to stop flashing.

F– Check distance. If unsatisfactory, repeat steps A through E.

**NOTE:** THESE INSTRUCTIONS ONLY APPLY TO 9 VOLT SENSORS THAT DO NOT HAVE A RANGE ADJUSTMENT SCREW ON THE BACK. SEE DRAWING # 9927–222–001.
MUST SPECIFY:

<table>
<thead>
<tr>
<th>Fixture Type</th>
<th>ECL</th>
<th>ECR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3711 Uni-Basin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3712 Dual-Basin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3713 Tri-Basin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3714 Quad-Basin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STANDARD WIDTHS *LESS –ECL/–ECR

<table>
<thead>
<tr>
<th>Fixture Type</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>3711 Uni-Basin</td>
<td>19&quot;</td>
</tr>
<tr>
<td>3712 Dual-Basin</td>
<td>49&quot;</td>
</tr>
<tr>
<td>3713 Tri-Basin</td>
<td>79&quot;</td>
</tr>
<tr>
<td>3714 Quad-Basin</td>
<td>109&quot;</td>
</tr>
</tbody>
</table>

SPECIFY EXTENDED COUNTERTOP WIDTH BELOW.

MERIDIAN® STAINLESS STEEL
DUAL-BASIN, 3702 SHOWN FOR
REFERENCE ONLY.

ORDERING INSTRUCTIONS:

SPECIFY WHERE INDICATED COUNTERTOP SIDE(S) TO BE EXTENDED AND DIMENSION(S) REQUIRED. MAXIMUM
OVERALL WIDTH IS 120".

NOTE: WHEN –ECL OR –ECR OPTIONS ARE SELECTED, ONLY THE COUNTERTOP IS EXTENDED; TRAP
ENCLOSURES REMAIN THE SAME AS STANDARD. LENGTHS ARE SUBJECT TO FACTORY APPROVAL. ALL
DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCE OF PLUS OR MINUS ¼" WITH OVERALL TOLERANCE
OF PLUS OR MINUS ½".
Programable Piezo Pushbutton
Programming Instructions (Flow Time Adjustment)

The Button is factory set an 8 sec. timing cycle, if an 8 sec. cycle is adequate, then no programming adjustment is required.

NOTE: Read the entire document before trying to program the piezo pushbutton.

THE TIME SETTINGS PROGRAM USES 3 DIFFERENT TIMING MODES:

- 1 second timing mode: Each push of the button adds 1 second to the total timing cycle.
- 5 second timing mode: Each push of the button adds 5 seconds to the total timing cycle.
- 20 second timing mode: Each push of the button adds 20 seconds to the total timing cycle.

To program the piezo pushbutton, you will need to be able to see the back of the piezo pushbutton. There is an LED on the back of the piezo pushbutton under a layer of transparent epoxy, used as a programming indicator light.

NOTE: This programming procedure moves along rapidly, there is only about 2 or 3 seconds between programming operations.

In order to start the programming the piezo pushbutton, the button must be powered down. Disconnect the red power cable and wait 20 seconds, then reconnect the red power cable.

As soon as the cable is reconnected the LED will start flashing, it will flash 4 times, then stays on for 3 seconds. During the 3 second period, push the piezo button once, the LED will go out, now you are in the 1 sec timing mode and each time the button is pushed the LED will flash, adding 1 sec to the total timing cycle.

To move on to the 5 sec timing mode, pause and wait for the LED to flash 2 times, now you are in the 5 sec timing mode. Each time the button is pushed the LED will flash, adding 5 sec to the total timing cycle.

To move on to the 20 sec timing mode, pause and wait for the LED to flash 3 times, now you are in the 20 sec timing mode and each time the button is pushed the LED will flash, adding 20 sec to the total timing cycle. After programming is complete, pause and wait for the LED to flash 4 times and then 5 times, which completes the programming.

- When a timing mode is not required then do not push the button and wait for the next timing mode.
- Each timing mode (1 sec, 5 sec or 20 sec timing mode) can be sequenced up to 100 times, that is the number of times, the button can be pushed, to increase the total timing cycle in each timing mode.
Programmable Piezo Pushbutton
Programming Instructions (Flow Time Adjustment)

WORKSHEET
(FILL IN ALL BOXES, WHICH WILL SIMPLIFY THE PROGRAMMING PROCEDURE)

Fill in all the Boxes below

Determine the number of seconds per timing cycle

1 Push = 1 Second

\[ \times 1 = \ \text{sec} \]  

ADD

1 Push = 5 Seconds

\[ \times 5 = \ \text{sec} \]  

ADD

1 Push = 20 Seconds

\[ \times 20 = \ \text{sec} \]  

EQUALS

Total timing cycle equals

PROGRAMING STEPS:
- Power down piezo button for 10 seconds.
- Reconnect power.
- LED flashes, then stay on.
- While the LED is steady on, push button.
- LED turns off.

\[ \times 1 = \ \text{sec} \]  

\[ \times 5 = \ \text{sec} \]  

\[ \times 20 = \ \text{sec} \]  

\[ = \ \text{seconds} \]  

- You are in the 1 sec timing mode, immediately push the button, 1 push equals 1 sec added to the total timing cycle.
- Pause and wait for the LED to flash 2 times.
- You are in the 5 sec timing mode, immediately push the button, 1 push equals 5 sec added to the total timing cycle.
- Pause and wait for the LED to flash 3 times.
- You are in the 20 sec timing mode, immediately push the button, 1 push equals 20 sec added to the total timing cycle.

Power down piezo button for 10 seconds.
Black Solenoid Cable
Red Power Cable

#3543 Sprayhead
Shown For Reference

Programming Indicator
LED Light

Piezo Pushbutton

Transparent Epoxy Filling