

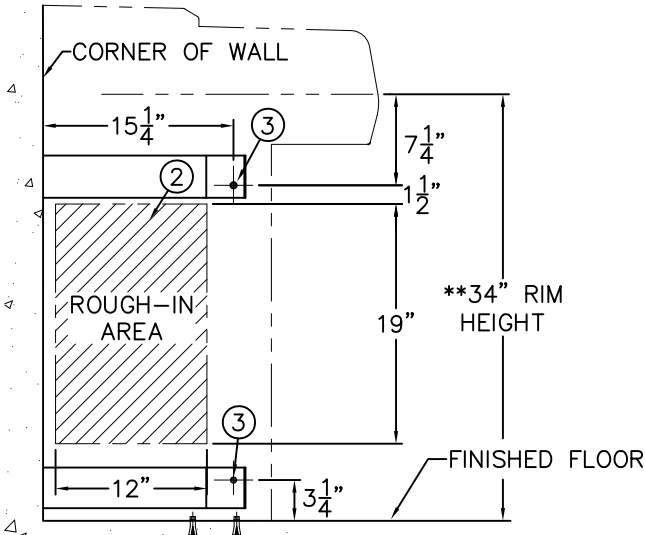


REFERENCE DRAWINGS

PEDESTAL ASSEMBLY	9912-526-002
MXTP VALVE ADJUSTMENT	9912-252-002
(-SO) (9VAC)	9955-019-002
(-SO) (24VAC)	9955-015-002
SPRAY NOZZLES	9971-010-002
MULTI-PURPOSE WRENCH	9951-000-001

PRODUCT ROUGH-IN AND INSTALLATION REQUIRES THE FOLLOWING MATERIALS, NOT SUPPLIED BY ACORN ENGINEERING COMPANY.

- 3/4" NPT SUPPLIES TO VALVE ASSEMBLY (1/2" NPT INLETS)
- 1-1/2" P-TRAP, DRAIN LINE AND WASTE FITTINGS
- SUITABLE FLOOR AND WALL ANCHORS FOR FIXTURE MOUNTING



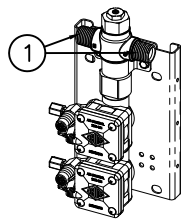
R.H. SIDE WALL SHOWN

NOTE: WALL FASTENER DIMENSIONS ARE TYPICAL OF BOTH WALLS. SUPPLY AND WASTE CAN BE ON EITHER WALL. (SHOWN ABOVE ON R.H. WALL SIDE).

ROUGH-IN FOR THE FOLLOWING:

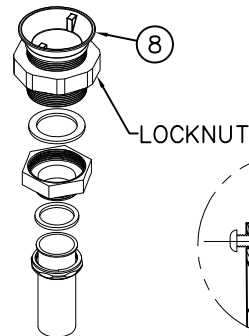
- HOT & COLD SUPPLIES FOR MIXING VALVE WITH 1/2" NPT VALVE INLETS (1).
- BASIN WASTE: 1-1/2" O.D. TAILPIECE (2) FOR P-TRAP ASSEMBLY BY OTHERS.
- FIXTURE WALL ANCHORING (3): 1/2"Ø PUNCHING FOR INSTALLER PROVIDED WALL ANCHORS AND ANCHORING HARDWARE.
- A- INSTALL PEDESTAL (4) PER #9912-526-002.
- B- APPLY A BEAD OF SILICONE ADHESIVE TO THE TOP OF PEDESTAL SIDE PANELS (6), AND ALIGN BASIN MOUNTING POINTS TO TOP CHANNEL MOUNTING POINTS AND SECURE WITH HARDWARE PROVIDED.
- C- ANCHOR FIXTURE TO WALL USING INSTALLER PROVIDED ANCHORING HARDWARE.
- D- REMOVE STRAINER (7) AND INSTALL DRAIN SPUD ASSEMBLY (8) TO BOWL USING PLUMBERS PUTTY AND THREAD LOCKNUT ONTO SPUD.
- E- MAKE UP INSTALLER PROVIDED WASTE CONNECTIONS TO TAILPIECE (2) PROVIDED.

VALVE DETAIL

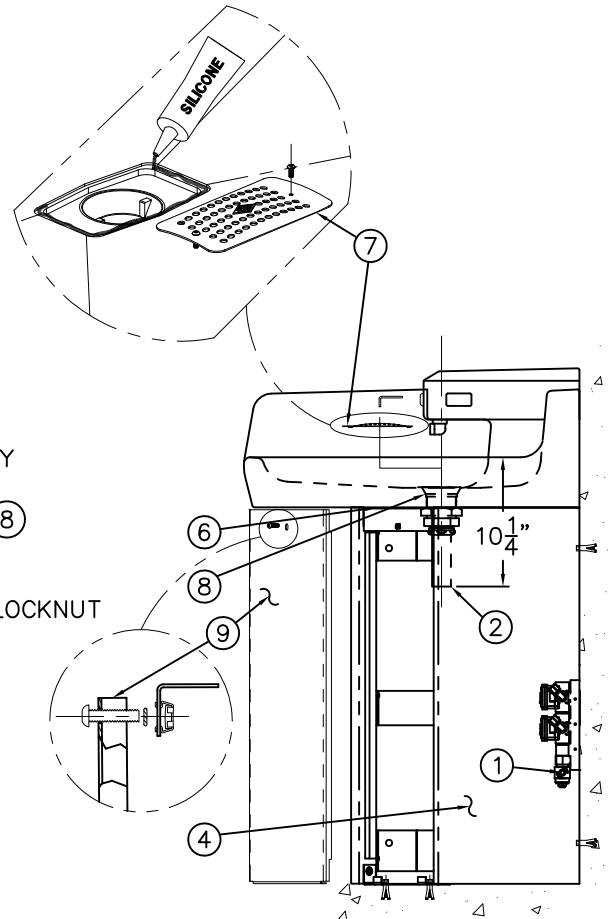


SCALE 2X

DRAIN ASSEMBLY



SCALE 2X



F- FLUSH SUPPLY LINES PRIOR TO MAKING UP CONNECTIONS TO 1/2" NPT VALVE INLET (1) CONNECTIONS.

G- ADJUST MIXING VALVE TO DESIRED TEMPERATURE. REFER TO DRAWING 9912-252-001.

H- SET TIMING CYCLE ON METERING VALVES; SEE DRAWING 9955-000-003 FOR DETAILS AND INSTRUCTIONS.

I- INSTALL PEDESTAL ACCESS COVER (9) SEE DETAIL.

NOTE: REFER TO A.D.A. ACCESSIBILITY GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS.

- UNITS WITH OPTIONAL -JH JUNIOR RIMHEIGHTS SUBTRACT DIFFERENCE FROM ALL VERTICAL DIMENSIONS INDICATED **.

- OPTIONAL -SO SENSOR OPERATION: SUPPLY 120VAC, 60 HZ, 3A MAX POWER TO FACTORY INSTALLED TRANSFORMER WITH JUNCTION BOX. LOCATE ELECTRICAL STUB OUT WITHIN SHADED ROUGH-IN AREA.

- TRANSFORMER MUST BE WIRED ONTO A GFI PROTECTED CIRCUIT. FIXTURE MUST BE EARTH GROUNDED PER N.E.C. (NATIONAL ELECTRICAL CODE).



ACORN ENGINEERING COMPANY
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15125 Proctor Ave Industry, CA 91746
(626) 336-4561 FAX (626) 961-2200

TITLE

TERRAZZO-LAV ROUGH-INS & BOWL ASSEMBLY 3612

MANUFACTURE DATE

JANUARY 1991

TO PRESENT

DATE ISSUED

05/11/10

DATE REVISED

03/25/14 A

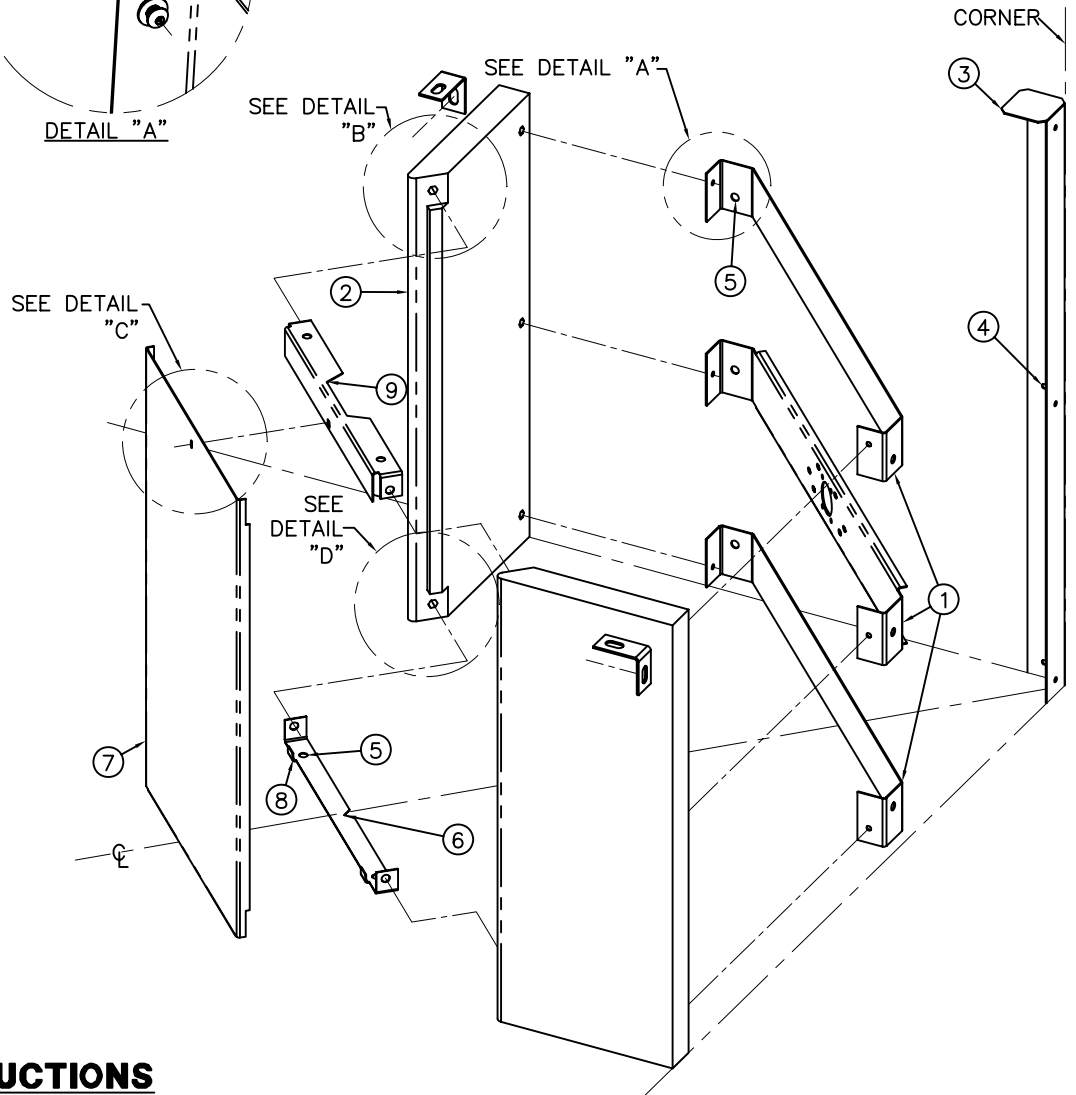
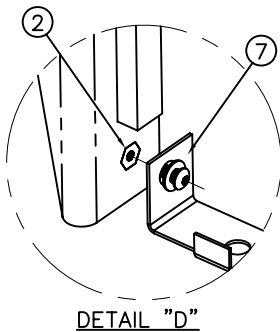
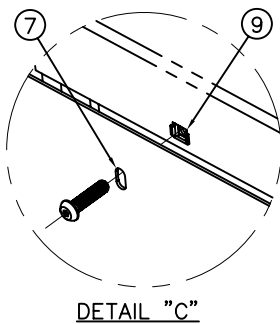
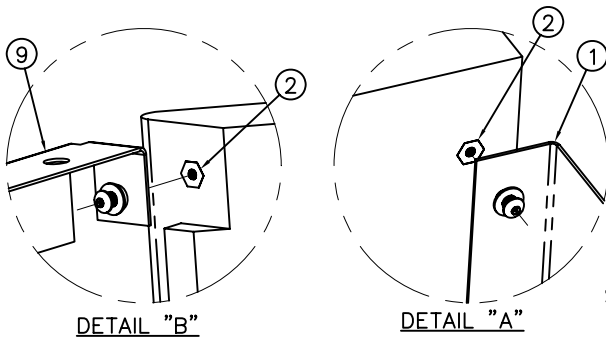
DRAWING NUMBER

9912-502-003



REFERENCE DRAWINGS

DESCRIPTION	DRAWING
ROUGH-INS & BOWL ASSY 3 STA.	9912-525-002
HARDWARE MODEL # 3613	9975-503-002
CENTER REJECT ALLEN BIT	9951-000-001



INSTALLATION INSTRUCTIONS

- A- FASTEN ALL CHANNELS (1) TO PRECAST LEGS (2) AS SHOWN WITH HARDWARE PROVIDED.
- B- MOUNT (3) VERTICAL BASIN SUPPORT IN CORNER AS SHOWN WITH ANCHORS FOR (4) 5/16" ϕ WITH INSTALLER PROVIDED ANCHORS AND ANCHOR HARDWARE .
- C- PLACE ASSEMBLED PEDISTAL IN CORNER OF WALL TO INSTALL WALL AND FLOOR ANCHORS FOR 1/2" ϕ PUNCHING (5) WITH CHANNEL CENTER NOTCHES (6) ON THE CENTER LINE. ANCHORS AND ANCHOR HARDWARE PROVIDED BY INSTALLER.

- D- INSTALL FRONT PANEL (7) TO FRONT CHANNELS ALIGNING FLANGES (8) IN SLOTS AND SCREWING TOGETHER AT TOP CHANNEL (9) SEE DETAIL "C".
- E- FOR FURTHER INSTALLATION INSTRUCTIONS SEE DRAWINGS LISTED ABOVE.



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TITLE

TERRAZZO-LAV PEDESTAL ASSY. MODEL # 3612, 3612-ADA & 3613, 3613-ADA

MANUFACTURE DATE

JANUARY 1991
TO PRESENT

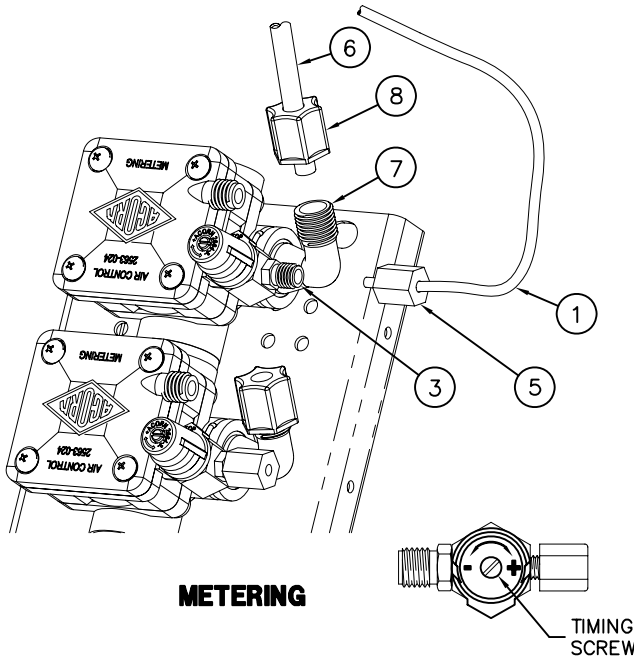
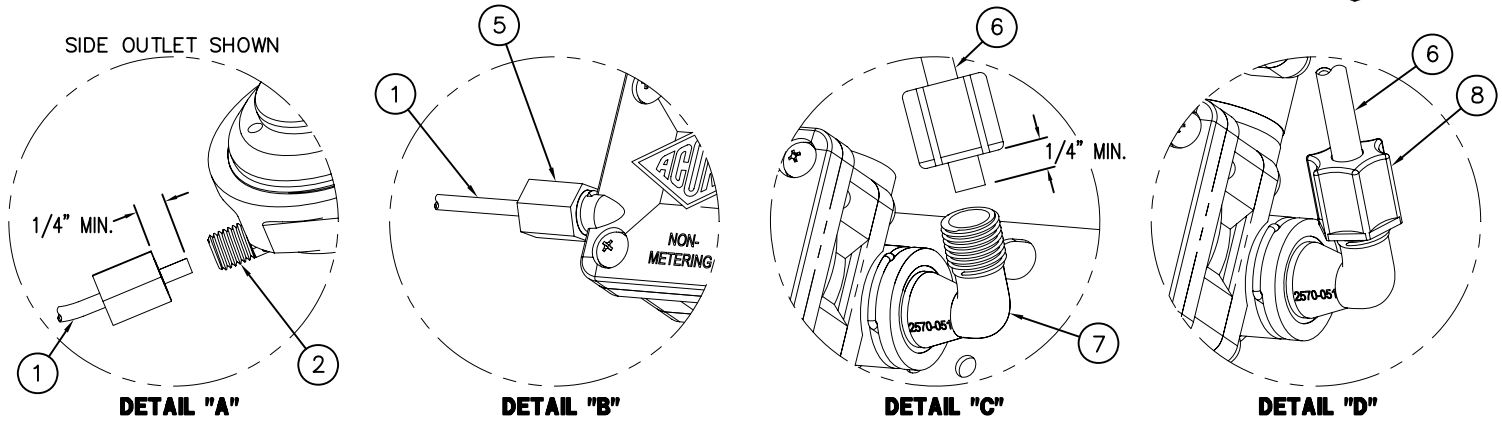
DATE ISSUED

05/28/10

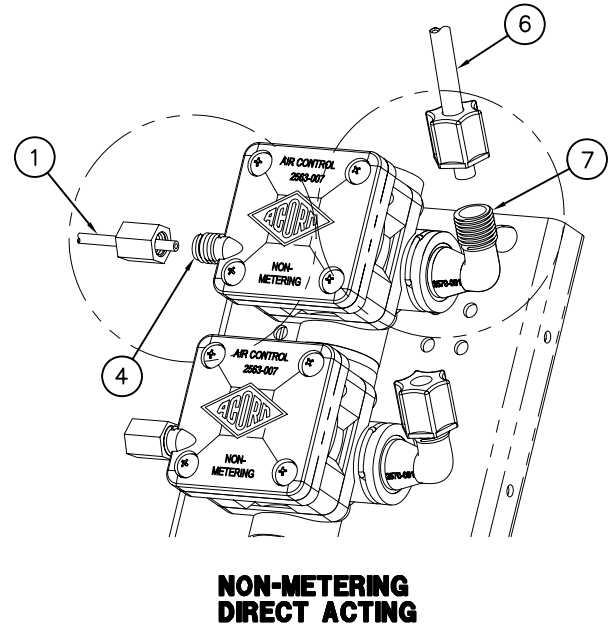
DATE REVISED

DRAWING NUMBER

9912-526-002



TIMING IS ADJUSTABLE FROM 5 TO 60 SECONDS AND IS ACCOMPLISHED BY ROTATING TIMING SCREW. TURING THE SCREW CLOCKWISE INCREASES WHILE COUNTERCLOCKWISE DECREASES TIMING.



INSTALLATION INSTRUCTIONS.

- A- MOUNT FIXTURE IN ACCORDANCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B- ASSEMBLE SPOUTS AND PUSHBUTTONS TO FIXTURE.
- C- CONNECT 1/8" O.D. POLYETHYLENE AIR LINE ① TO PUSHBUTTON ②, AND VALVE TIMER ASSEMBLY ③ SEE DETAIL "A". NOTE: FOR DIRECT ACTING: ASSEMBLE TO AIR PORT ④, SEE DETAIL "B". HAND TIGHTEN FERRULE NUT ⑤ PROVIDED.
- D- CONNECT 1/4" O.D. POLYETHYLENE WATER LINES ⑥ TO VALVE ASSEMBLY ELBOW ⑦ SEE DETAILS "C", AND "D". HAND TIGHTEN FERRULE NUT ⑧ PROVIDED.
- E- AFTER THOROUGHLY FLUSHING SUPPLY LINES MAKE UP CONNECTIONS TO VALVE ASSEMBLY INLET(S) 1/2" NPT OR 1/2" NPS FLEX HOSE AS REQUIRED.

REFERENCE DRAWINGS

ASSEMBLIES	DRAWING
VALVE BODY	9955-006-003
CHECKSTOP	9956-040-003
FIXTURE TRIM	9957-051-001
AIR-CONTROL SERVOMOTORS	
METERING	9955-000-003
NON-METERING	9955-001-003

NOTE:

- 1) ALL TUBING SHOULD BE CUT SQUARE AND BE FREE OF BURRS OR DEFORMITIES TO ENSURE A WATER TIGHT CONNECTION.
- 2) EXTEND TUBING AT LEAST 1/4" BEYOND FERRULE NUT BEFORE INSERTING TUBING INTO CONNECTION OPENING BEFORE TIGHTENING.
- 3) TUBING SHOULD BE FREE OF KINKS FOR PROPER OPERATION
- 4) MAXIMUM RECOMMENDED WORKING WATER PRESSURE IS 100 PSI; TEMPERATURE IS 130° F; OUTLET TEMPERATURE IS RECOMMENDED AT A MAXIMUM OF 105° F.

WARNING:

PRIOR TO MAKING INSTALLATION, SUPPLY LINES MUST BE FLUSHED OF ALL FOREIGN MATERIAL SUCH AS PIPE DOPE, CHIPS, SOLDER, ETC. VALVE MUST BE DRAINED PRIOR TO BEING SUBJECTED TO FREEZING TEMPERATURES. MAXIMUM RECOMMENDED OUTLET WATER TEMPERATURE IS 105° F.



ACORN ENGINEERING COMPANY
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TITLE

HAND OPERATED AIR-CONTROL VALVE CONNECTIONS

MANUFACTURE DATE

**JANUARY 1999
TO PRESENT**

DATE ISSUED

04/22/10

DATE REVISED

10/11/10

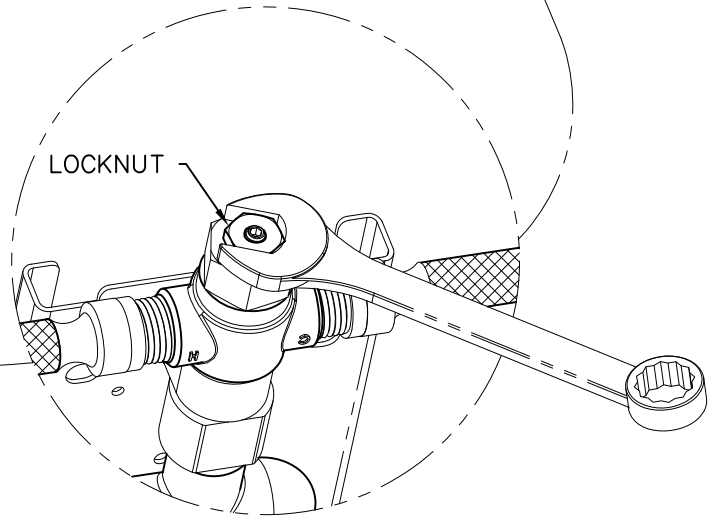
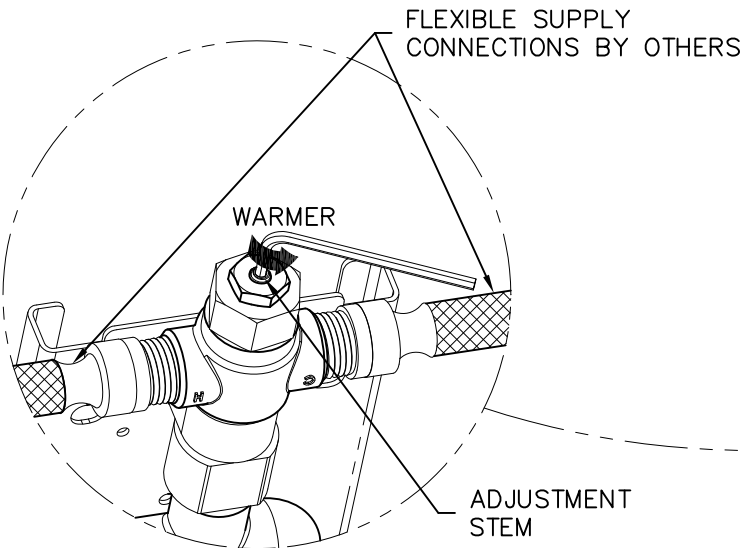
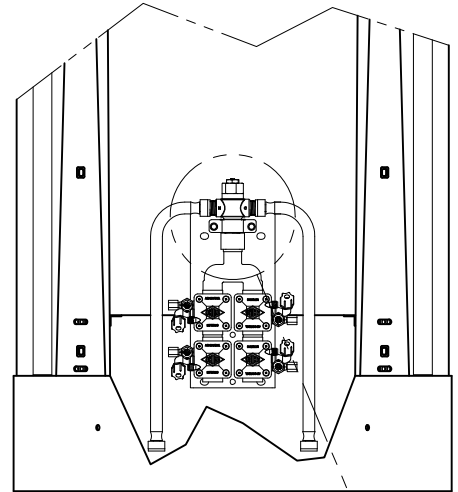
DRAWING NUMBER

9905-006-001



REFERENCE DRAWINGS

REPAIR PARTS	DRAWING
NON-METERING SERVOMOTOR (-F)	9955-001-003
METERING SERVOMOTOR (-H)	9955-000-003
AIR-CONTROL VALVE BODY	9975-090-001
CHECKSTOP (-ST Single Temp. Only)	9956-040-003
SENSOR/SOLENOID (-SO) (24VAC)	9955-015-002
SENSOR/SOLENOID/PPZ (-SO) (9VDC)	9955-019-002
HAND BUTTON	9957-300-001
FOOT BUTTON	9957-200-001



VALVE INSTALLATION:

- A- 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" NPT.
- B- 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.
- C- 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.



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TITLE

VALVE INSTALL & MIXING VALVE ADJUSTMENT

MANUFACTURE DATE

**MARCH 2014
TO PRESENT**

DATE ISSUED

03/25/14

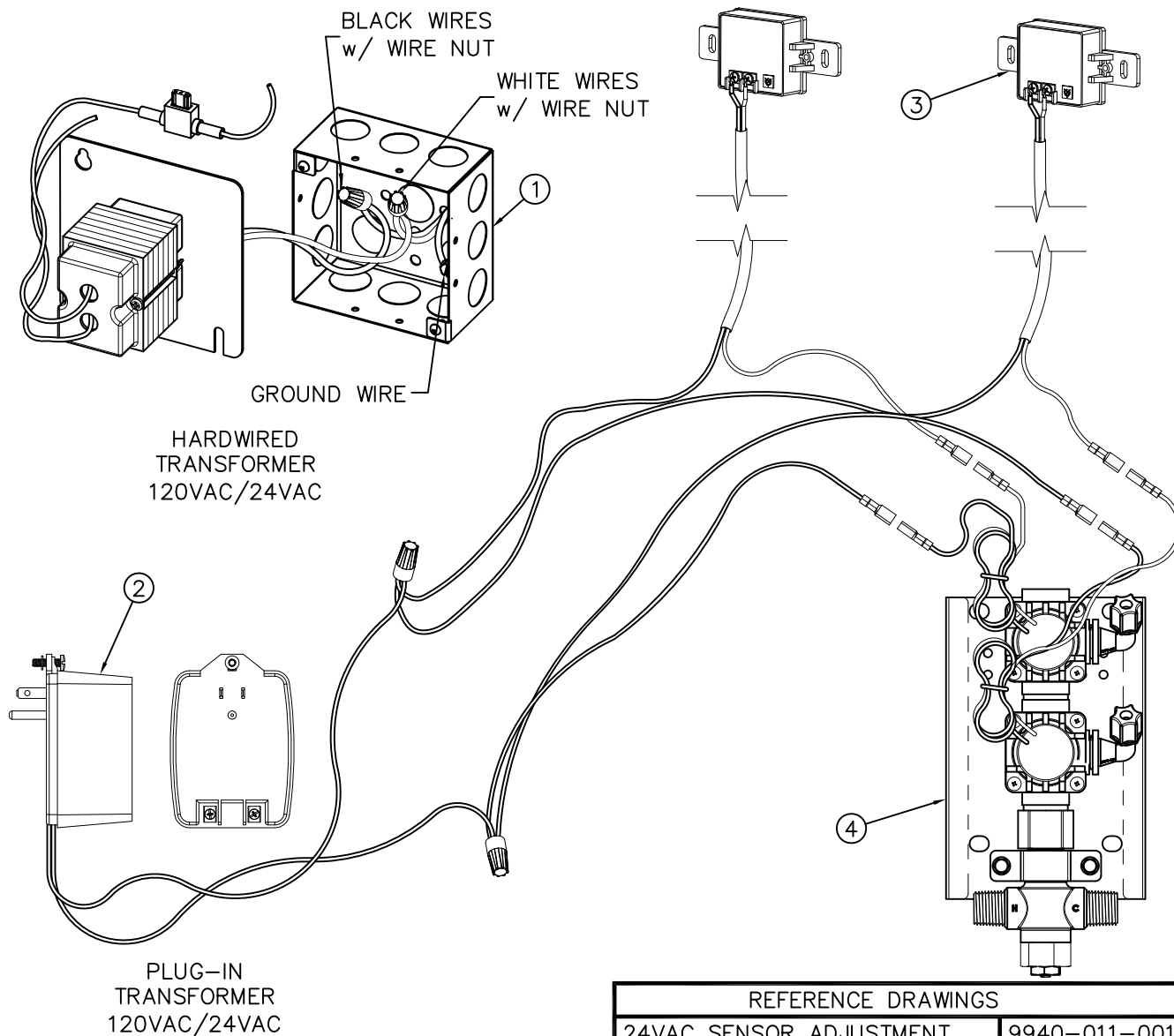
DATE REVISED

DRAWING NUMBER

9912-252-002



TWO STATION WIRING DIAGRAM SHOWN



INSTALLATION INSTRUCTIONS:

A- REFER TO FIXTURE DRAWINGS FOR INSTALLATION & ROUGH-IN INFORMATION.

B- PROVIDE 120VAC, 60Hz, 3 AMPS MAX, SERVICE TO CONNECT 24VAC, 50VA TRANSFORMER PLATE & J-BOX ①, OR RECEPTACLE FOR PLUG-IN TRANSFORMER ②. SEE NOTE.

C- CONNECT WIRE SET FROM SENSOR ③ TO SOLENOID VALVE ④ AND TRANSFORMER ①, OR ②. CONNECT TRANSFORMER TO POWER SUPPLY.

E- COMPLETE INSTALLATION OF FIXTURE PER FACTORY INSTALLATION SHEETS PROVIDED.

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).



ACORN ENGINEERING COMPANY
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TITLE

24VAC -SO SENSOR INSTALLATION INSTRUCTIONS

MANUFACTURE DATE

**OCTOBER 2010
TO PRESENT**

DATE ISSUED

05/10/10

DATE REVISED

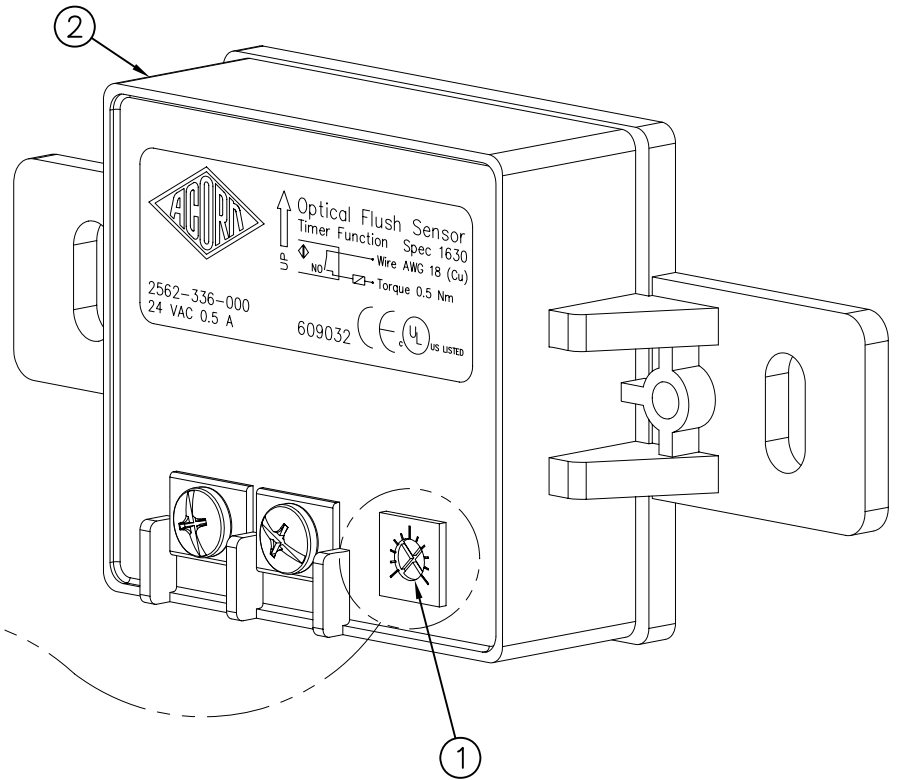
03/28/14 A

DRAWING NUMBER

9912-531-003

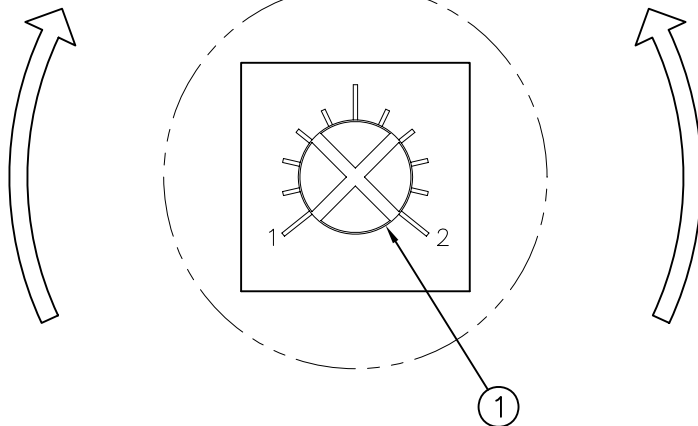


NOTE: RANGE OF MOTION FOR
ADJUSTMENT SCREW IS FROM
APPROX. 8 O'CLOCK CLOCKWISE
TO APPROX. 4 O'CLOCK.



INCREASE

DECREASE



A- USE SMALL JEWELERS CROSS TIP
SCREW DRIVER TO ADJUST SENSOR
RANGE (1) ON BACK OF SENSOR (2).

B- TURN ADJUSTMENT SCREW (1) CLOCKWISE
TO INCREASE SENSOR RANGE.

C- TURN ADJUSTMENT SCREW (1)
COUNTERCLOCKWISE TO DECREASE
SENSOR RANGE.

D- NOTE: SENSOR RANGE IS FROM 0 TO
APPROXIMATELY 24" MAXIMUM.



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TITLE

24VAC SENSOR RANGE ADJUSTMENT

MANUFACTURE DATE

JUNE 2002

TO PRESENT

DATE ISSUED

02/22/08

DATE REVISED

08/10/09

DRAWING NUMBER

9940-011-001



START UP MODE:

The Acorn –SO is a 24VAC sensor and includes a manual range adjustment. Sensor range adjustments may be made using adjustment screw on back of sensor.

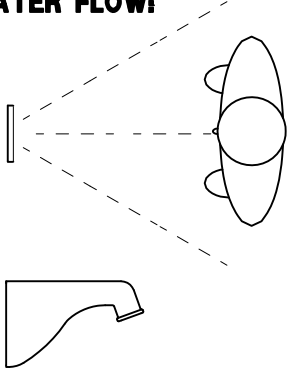
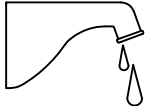
The Start Up Mode will take approximately five (5) minutes to complete its full cycle and it is important that no target is present in front of the sensor during this time. A steady red light visible in the center of the oval sensor window indicates the sensor is in Start Up Mode. If the red light is flashing, this indicates that the sensor is picking up a target. Unless this target is a permanent fixture in the sensor's environment (i.e. a wall or stall door) it must be removed from the view of the sensor. If this target is permanent the sensor will attempt to adapt itself around this target. When Start Up Mode is complete the steady red light will go off.

NOTE:

1. If the 24VAC power supply is interrupted for more than fifteen (15) seconds the Start Up Mode will automatically repeat itself when the power is restored.
2. If the indicator light flashes three (3) times quickly, then three (3) times slowly and continues to repeat this sequence, this indicates incorrect wiring or a short in the 24VAC power supply.

NORMAL VALVE FUNCTION:

One second time delay when sensor is activated by user. Time of flow is 30 seconds. To reactivate, the user must move out of and return to the sensing area. When installed in the shower, flow continues indefinitely until user moves from sensing area.

CONDITION:	PROBABLE CAUSE
NO WATER FLOW: 	1.1 Stops or main water supply may be closed. 1.2 When using –T/P mixing valve, both supplies must be open to supply adequate water flow. 1.3 Clogged strainer. 1.4 Clogged water diaphragm. 1.5 Loose wiring connections. 1.6 Blown fuse at transformer. 1.7 Circuit breaker shut off.
WATER WON'T SHUT OFF 	2.1 Adjacent objects may be triggering the sensor. 2.2 Sensor malfunction.
WATER DRIPS 	3.1 Clogged water diaphragm.

MINIMUM / MAXIMUM WATER PRESSURE (PSI) 30 / 125. MAXIMUM WATER TEMPERATURE 130°F.

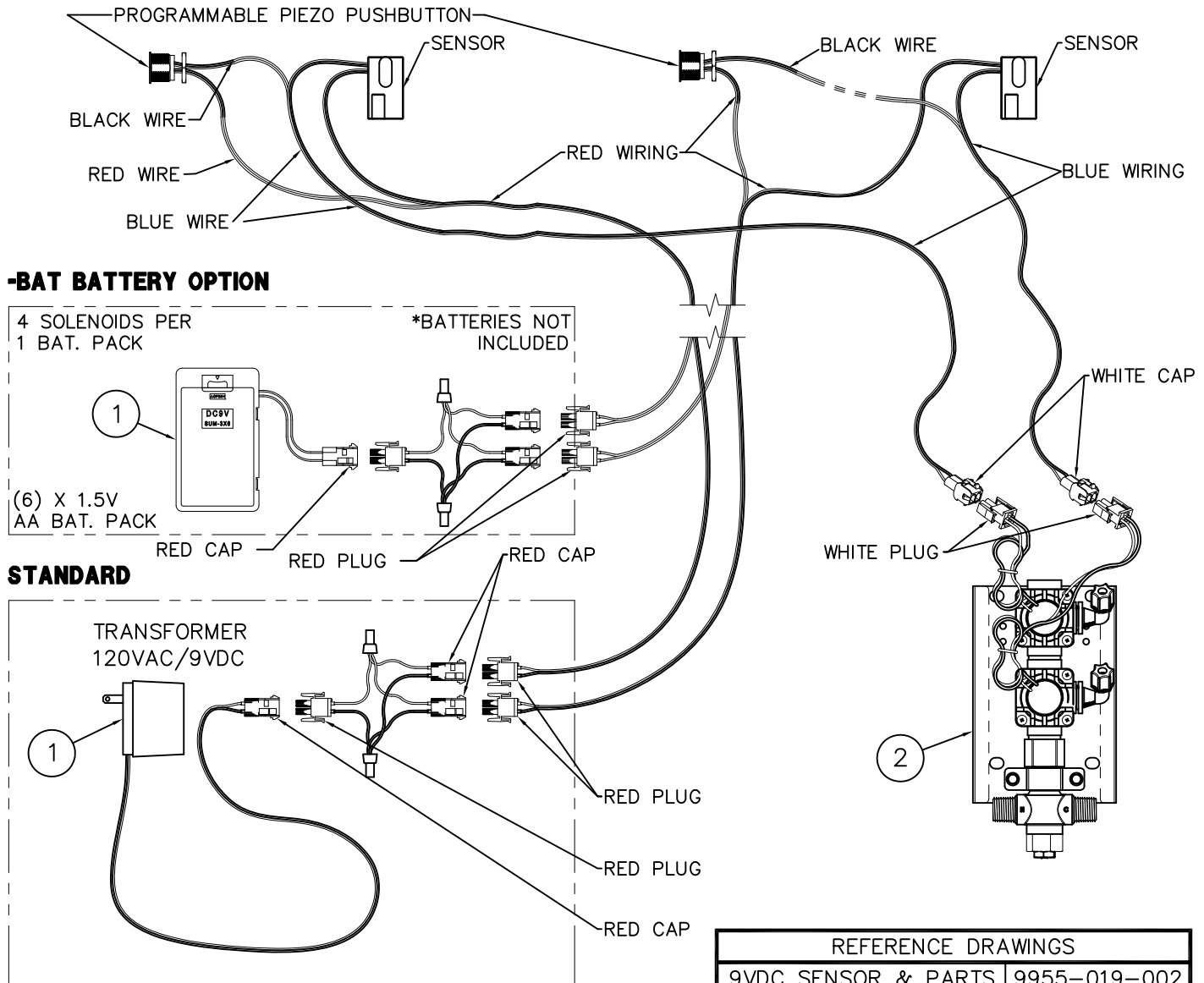
Refer to drawing #9955–016–002 for parts breakdown of items listed above.

Refer to Acorn Operations And Maintenance Manual for installation instructions and repair parts.

 ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE 24VAC -SO SENSOR OPERATED VALVE MAINTENANCE INSTRUCTIONS		
	MANUFACTURE DATE FEBRUARY 2012 TO PRESENT	DATE ISSUED 02/09/12	DRAWING NUMBER 9940-010-003
		DATE REVISED	



TWO STATION WIRING DIAGRAM SHOWN



REFERENCE DRAWINGS

9VDC SENSOR & PARTS	9955-019-002
PIEZO PB PROGRAMMING	9940-009-001

INSTALLATION INSTRUCTIONS:

A- USING APPROPRIATE INSTALLATION INSTRUCTIONS, MOUNT FIXTURE TO WALL AND MAKE-UP WASTE PIPING CONNECTIONS. SENSOR OR ELECTRONIC PUSHBUTTON ARE FACTORY INSTALLED. POWER SUPPLY ① AND VALVE ② 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).



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TITLE

-SO SENSOR/ -PPZ PIEZO ELECTRONIC PUSHBUTTON INSTALLATION

MANUFACTURE DATE

OCTOBER 2009
TO PRESENT

DATE ISSUED

09/06/13

DATE REVISED

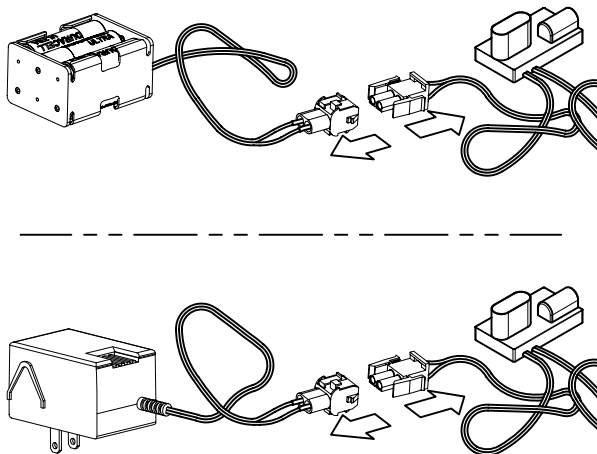
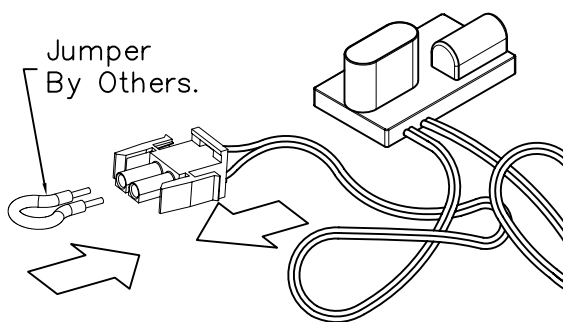
03/25/14

DRAWING NUMBER

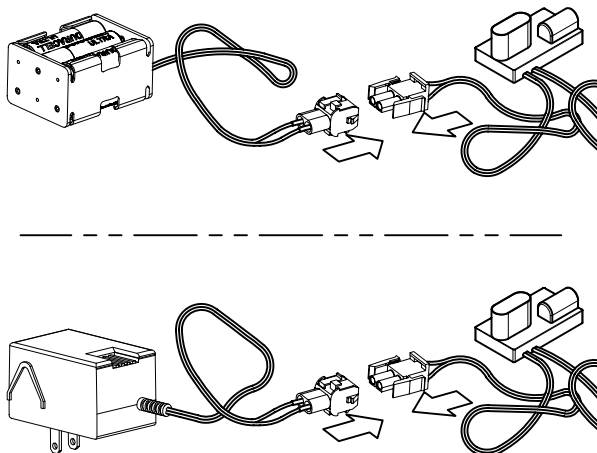
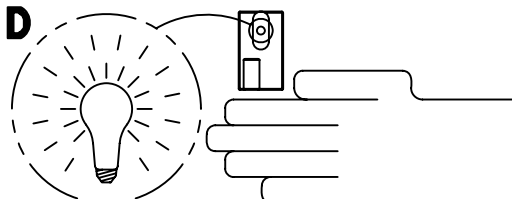
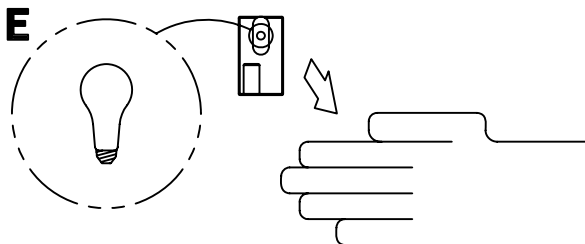
9927-221-005

**A**

*BATTERIES NOT INCLUDED

**Disconnect sensor from power supply.****B**Jumper
By Others.**Short circuit sensor for 5 seconds.****C**

*BATTERIES NOT INCLUDED

**Reconnect sensor to power supply.****D****Within 5 seconds, place
hand in front of sensor.****E****Move hand to desired range.**

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.

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.



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TITLE

9 VOLT DC SENSOR RANGE ADJUSTMENT

MANUFACTURE DATE

**SEPTEMBER, 2001
TO PRESENT**

DATE ISSUED

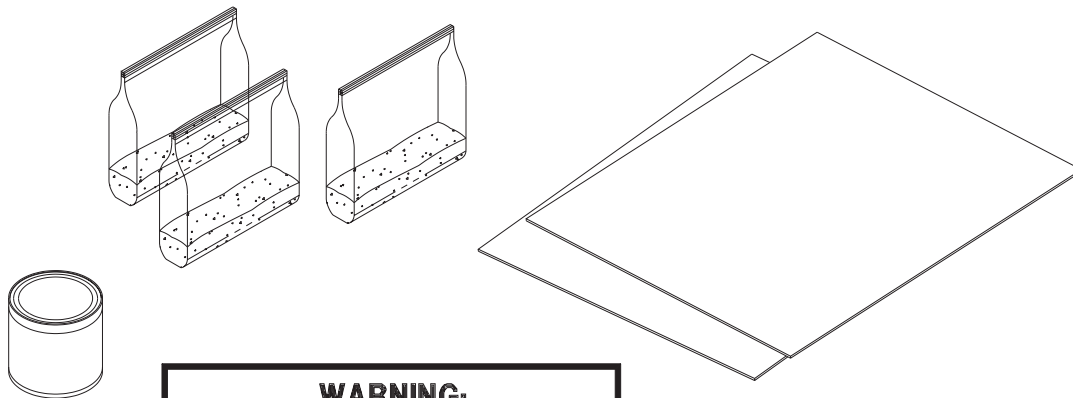
09/06/01

DATE REVISED

09/30/11

DRAWING NUMBER

9927-222-002



WARNING:
READ MATERIAL SAFETY DATA SHEETS BEFORE USING.

INSTRUCTIONS:

- A- COMPLETELY CLEAN SURFACE TO BE REPAIRED. ALLOW TO DRY 24 HOURS BEFORE PROCEEDING.
- B- FOR SMALL REPAIRS MIX CEMENT(S) TO PROPER CONSISTENCY. FOR LARGER AREAS ADD AGGREGATE TO MIX AS NECESSARY. SEE STEP E BELOW.
- C- PRESS CEMENT INTO AREA TO BE REPAIRED.
- D- DAMPEN A PUTTY KNIFE WITH WATER AND LEVEL THE CEMENT WITH THE SURROUNDING SURFACE.
- E- IF THE REPAIR IS LARGE AND/OR TOO DEEP, PRESS A SMALL AMOUNT OF AGGREGATE INTO THE CEMENT, ALLOWING THEM TO PROJECT SLIGHTLY HIGHER THAN THE SURROUNDING SURFACE.
- F- ALLOW THE REPAIRED AREA TO DRY 4-6 HOURS BEFORE PROCEEDING.
- G- USING THE 20 GRIT SANDPAPER SUPPLIED, SAND THE REPAIRED AREA UNTIL SMOOTH AND LEVEL WITH SURROUNDING SURFACE.
- H- USING THE 220 GRIT SANDPAPER SUPPLIED, SAND THE REPAIRED AREA AND IMMEDIATELY SURROUNDING AREA TO PREPARE FOR THE URETHANE COATING. IT IS ONLY NECESSARY TO FEATHER THE COATING SURROUNDING THE REPAIR, NOT REMOVE IT COMPLETELY.
- I- CLEAN THE AREA TO BE COATED TO REMOVE ALL RESIDUAL SANDING DUST. IF WATER IS USED, ALLOW TO DRY FOR 2-3 HOURS BEFORE PROCEEDING.
- J- APPLY 1-2 COATS OF URETHANE AS NEEDED, ALLOWING SEVERAL HOURS BETWEEN COATS. ALLOW 24 HOURS FOR DRYING BEFORE EXPOSURE TO WATER.

TERRAZZO REPAIR KIT

- 1 CAN OF AIR-DRY URETHANE
- 1 SHEET 20 GRIT SANDPAPER
- 1 SHEET 220 GRIT SANDPAPER
- MATERIAL SAFETY DATA SHEET
- COLOR MIX & AGGREGATES:

PALOMINO COLOR MIX:

- 6 OZ. WHITE CEMENT
- 3 OZ. AGGREGATE, IVORY #1
- 3 OZ. AGGREGATE, IVORY #2

PLATINUM GRAY COLOR MIX:

- 6 OZ. GRAY CEMENT
- 6 OZ. WHITE CEMENT
- 3 OZ. AGGREGATE, INYO WHITE #1
- 3 OZ. AGGREGATE, INYO WHITE #2

HYBRID ROSE COLOR MIX:

- 6 OZ. WHITE CEMENT
- 3 OZ. AGGREGATE, WHITE ROSE #1
- 3 OZ. AGGREGATE, WHITE ROSE #2
- 3 OZ. AGGREGATE, SAN SABA WHITE #1
- 3 OZ. AGGREGATE, SAN SABA WHITE #2

MIDNIGHT ROSE COLOR MIX:

- 6 OZ. BLACK PIGMENT
- 6 OZ. WHITE CEMENT
- 3 OZ. AGGREGATE, INYO WHITE #1
- 3 OZ. AGGREGATE, INYO WHITE #2
- 3 OZ. AGGREGATE, WHITE ROSE #1
- 3 OZ. AGGREGATE, WHITE ROSE #2



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TITLE

TERRAZZO REPAIR KIT INSTRUCTIONS

MANUFACTURE DATE

JUNE 1995

TO PRESENT

DATE ISSUED

04/08/03

DATE REVISED

DRAWING NUMBER

9912-499-001



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.

Prevision must be made to access 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 programing 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

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.

1 Push = 1 Second

x 1 = sec



- 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.

ADD

1 Push = 5 Seconds

x 5 = sec



- 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.

ADD

1 Push = 20 Seconds

x 20 = sec



- You are in the 20 sec timing mode, immediately push the button, 1 push equals 20 sec added to the total timing cycle.

EQUALS

Total timing cycle equals

seconds



INSTALLATION, OPERATIONS & MAINTENANCE MANUAL

Please visit www.acorneng.com
for most current specifications.

