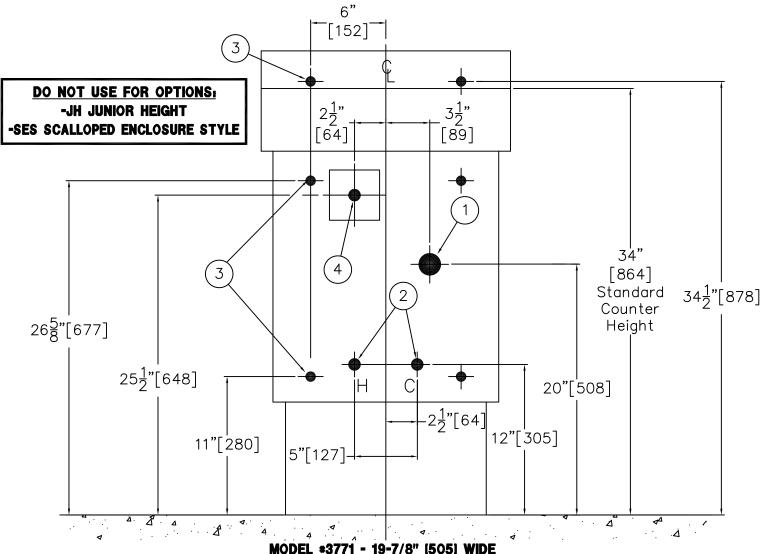


NOTE: UNITS WITH 34" STANDARD HEIGHT COUNTERTOP MEET ANSI, UFAS, AND ADA ACCESSIBILITY REQUIREMENTS. REFER TO APPLICABLE GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS.



ROUGH-IN FOR THE FOLLOWING:

- 1- LAVY WASTE OUTLET 1-1/2" O.D. TUBE FOR COMPRESSION CONNECTION.
- 2- MIXING VALVE INLETS 1/2" NPT HOT AND COLD VALVE SUPPLIES.
- 3- MOUNTING LOCATIONS 9/16" DIAMETER MOUNTING HOLES (6) PLACES. RECOMMENDED 3/8" UNC MOUNTING HARDWARE.
- 4- FOR -SO/-PBE OPERATED CONTROLS. PROVIDE 120V/60Hz/3 AMPS(MAX.) ELECTRIC RECEPTACLE TO CONNECT FACTORY SUPPLIED 9 VOLT 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).

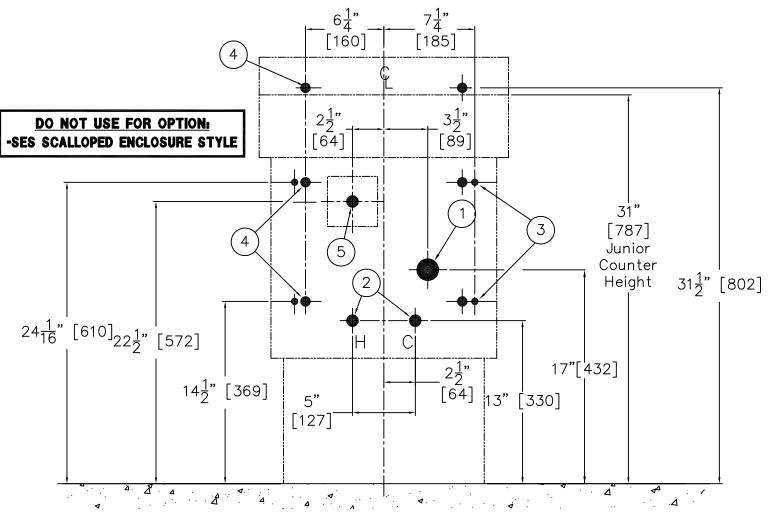
INSTALLATION INSTRUCTIONS:

SOME AVAILABLE OPTIONS FOR THIS UNIT MAY ALTER THESE ROUGH-IN INSTRUCTIONS CONTACT FACTORY FOR DETAILS UNIT INTENDED FOR INSTALLATION ON A FINISHED WALL WITH APPROPRIATE WALL BACKING. MODELS #3771-2 ARE SUPPORTED ON THE FLOOR. MODELS #3771-1 ARE WALL HUNG. 3/8" UNC WALL ANCHORS AND

MOUNTING HARDWARE NOT INCLUDED. UNIT INCLUDES WASTE PIPING, 1-1/2" TUBULAR P-TRAP, AND VALVE ASSEMBLY. NOTE: UNITS WITH OPTIONAL -EC EXTENDED COUNTERTOP ON SIDE SPECIFIED. DO NOT USE THE DRAWING FOR -SES OR -JH OPTIONS.

*	ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	CORTERRA UNI-BASIN STAND	ARD HEIGHT ROUGH-IN	S - MODEL #3771-1/3771-2
	` ,	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
		DECEMBER 1997	12/10/97	
88/		TO PRESENT	DATE REVISED 01/11/19 C	9927-090-001





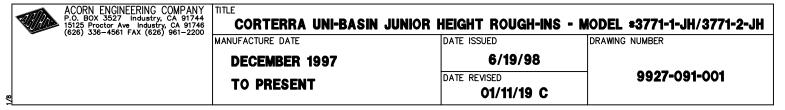
MODEL *3771-JH - 19-7/8" (505) WIDE

ROUGH-IN FOR THE FOLLOWING:

- 1- LAVY WASTE OUTLET 1-1/2" O.D. TUBE FOR COMPRESSION CONNECTION.
- 2- MIXING VALVE INLETS 1/2" NPT HOT AND COLD VALVE SUPPLIES.
 3- OPTIONAL ANCHORING 9/16" DIA. MOUNTING HOLES (4) PLACES. RECOMMENDED 3/8" UNC MOUNTING HARDWARE.
- 4- PRIMARY ANCHORING 9/16" MOUNTING HOLES (4) PLACES. RECOMMENDED 3/8" UNC MOUNTING HARDWARE.
- 5- FOR -SO SENSOR OPERATED CONTROLS. PROVIDE 120V/60Hz/3 AMPS(MAX.) ELECTRIC RECEPTACLE TO CONNECT FACTORY SUPPLIED 9 VOLT 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).

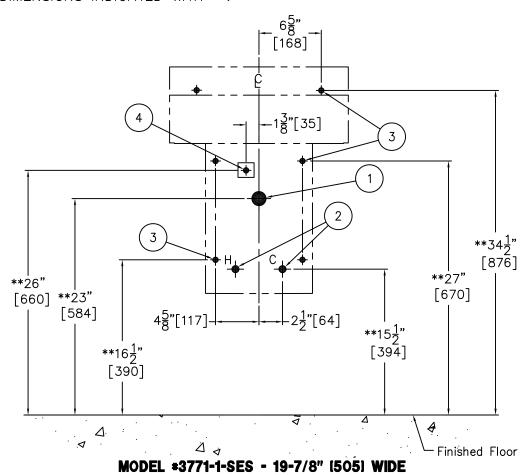
INSTALLATION INSTRUCTIONS:

SOME AVAILABLE OPTIONS FOR THIS UNIT MAY ALTER THESE ROUGH-IN INSTRUCTIONS CONTACT FACTORY FOR DETAILS UNIT INTENDED FOR INSTALLATION ON A FINISHED WALL WITH APPROPRIATE WALL BACKING. MODELS #3771-2 ARE SUPPORTED ON THE FLOOR. MODELS #3771-1 ARE WALL HUNG. 3/8" UNC WALL ANCHORS AND MOUNTING HARDWARE NOT INCLUDED. UNIT INCLUDES WASTE PIPING, 1-1/2" TUBULAR P-TRAP, AND VALVE ASSEMBLY. NOTE: UNITS WITH OPTIONAL -EC EXTENDED COUNTERTOP ON SIDE SPECIFIED. DO NOT USE THE DRAWING FOR -SES OPTION.





NOTE: UNITS WITH 34" STANDARD HEIGHT COUNTERTOP MEET ANSI, UFAS AND ADA ACCESSIBILTY REQUIREMENTS. REFER TO APPLICABLE GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS. FOR UNITS WITH RIM HEIGHTS OTHER THAN STANDARD. SUBTRACT DIFFERENCE FROM ALL VERTICAL DIMENSIONS INDICATED WITH **.



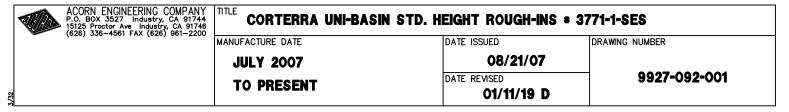
ROUGH-IN FOR THE FOLLOWING:

- 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 (6) PLACES, RECOMMENDED 3/8" UNC HARDWARE.
- 4- FOR -SO SENSOR OPERATED CONTROLS. PROVIDE 120V/60Hz/3 AMPS (MAX.) ELECTRIC RECEPTACLE TO CONNECT FACTORY SUPPLIED 9VDC/100mA 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).

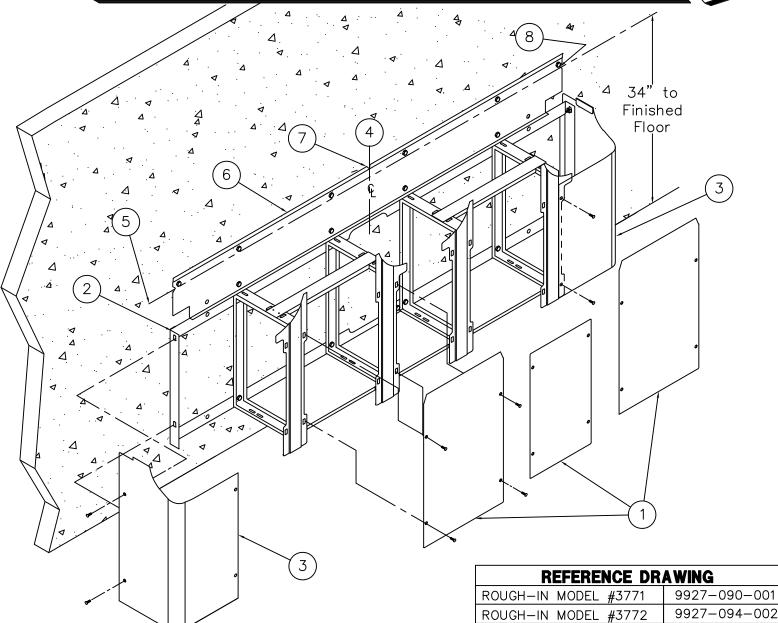
INSTALLATION INSTRUCTIONS:

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.







INSTALLATION INSTRUCTIONS:

- A—REMOVE FRONT PANELS ① FROM THE PEDESTAL FRAME
 ② . DO NOT REMOVE SIDE PANELS ③ UNLESS EXTRA
 MOUNTING POINTS WILL BE NECESSARY.
- B- STRIKE A VERTICAL CHALK LINE (4) ON THE WALL AT CENTERLINE OF WHERE FIXTURE IS TO BE INSTALLED.
- C- STRIKE A HORIZONTAL CHALK LINE ⑤ ON THE WALL AT 34" ABOVE THE FINISHED FLOOR.
- D— SEE APPROPRIATE DRAWING FOR ROUGH—IN INFORMATION. INSTALL WALL ANCHORS, AND MAKE APPROPRIATE WASTE, VALVE, AND ELECTRICAL ROUGH—INS.
- E- PLACE PEDESTAL FRAME ② AND TEMPLATE ⑥ AGAINST THE WALL. LINE UP CENTER NOTCH ⑦ WITH CHALK LINE. LEVEL TEMPLATE BY ALIGNING SIDE NOTCHES ⑧ WITH HORIZONTAL CHALK LINE ⑤ AT 34".

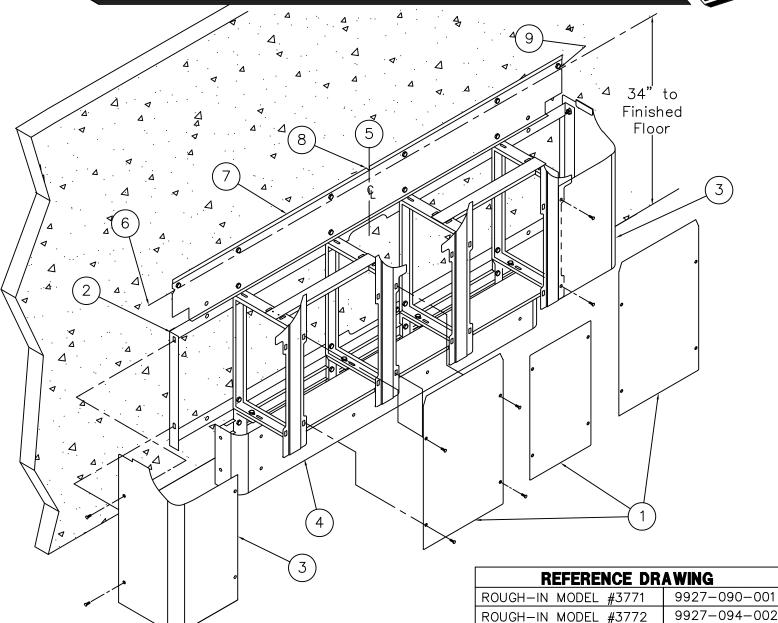
9927-098-002

ROUGH-IN MODEL #3773

- F- ANCHOR TEMPLATE (6) AND PEDESTAL FRAME (2) TO WALL ANCHORS (FASTENERS AND ANCHORS BY OTHERS).
- G-INSTALLATION INSTRUCTIONS CONTINUE ON DRAWING # 9927-157-001.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	SOLID SURFACE OFF-FLOOR MOUNTING FRAME - MODEL #3771/3772/3773-1		
	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
	DECEMBER 1997	05/24/99	
764	TO PRESENT	DATE REVISED O1/11/19 A	9927-151-001





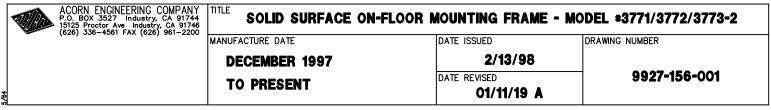
INSTALLATION INSTRUCTIONS:

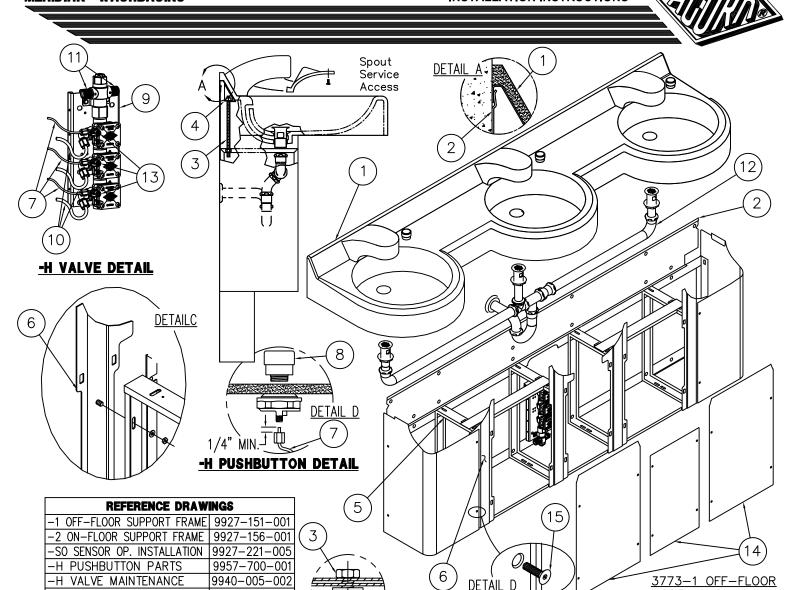
- A—REMOVE FRONT PANELS ① FROM THE PEDESTAL FRAME
 ② . DO NOT REMOVE SIDE PANELS ③ OR SCUFF PANEL
 ④ UNLESS EXTRA MOUNTING POINTS WILL BE NECESSARY.
- B- STRIKE A VERTICAL CHALK LINE (5) ON THE WALL AT CENTERLINE OF WHERE FIXTURE IS TO BE INSTALLED.
- C- STRIKE A HORIZONTAL CHALK LINE 6 ON THE WALL AT 34" ABOVE THE FINISHED FLOOR.
- D—SEE APPROPRIATE DRAWING FOR ROUGH—IN INFORMATION. INSTALL WALL ANCHORS, AND MAKE APPROPRIATE WASTE, VALVE, AND ELECTRICAL ROUGH—INS.
- E- PLACE PEDESTAL FRAME ② AND TEMPLATE ⑦
 AGAINST THE WALL. LINE UP CENTER NOTCH ⑧ WITH
 CHALK LINE. LEVEL TEMPLATE BY ALIGNING SIDE
 NOTCHES ⑨ WITH HORIZONTAL CHALK LINE ⑥ AT
 34".

9927-098-002

ROUGH-IN MODEL #3773

- F- ANCHOR TEMPLATE ⑦ AND PEDESTAL FRAME ② TO WALL ANCHORS (FASTENERS AND ANCHORS BY OTHERS).
- G-INSTALLATION INSTRUCTIONS CONTINUE ON DRAWING # 9927-157-001.





INSTALLATION INSTRUCTIONS:

-H SERVOMOTOR

WASTE PIPING

CHECKSTOP/STRAINER

-MXPT VALVE TEMP. ADJUST

MISCELLANEOUS HARDWARE

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

OPTIONAL -PDM SOAP DISPENSER 9927-210-003

A-PROVIDE REQUIRED ROUGH-INS AND INSTALLATION OF WASHBASIN SUPPORT FRAME AS INSTRUCTED ON APPROPRIATE DRAWINGS.

9955-000-003

9956-040-003

9912-252-002

9985-356-001

9951-005-001

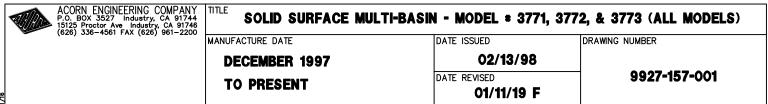
DETAIL B

- B-INSTALL WASHBASIN (1) MAKING SURE THAT RETURN ON UNDERSIDE OF BACKSPLASH ENGAGES ACROSS WASHBASIN LENGTH OVER "S" JOGGLE ON TOP OF TEMPLATE (2) . SEE DETAIL A.
- C-LEVEL THE WASHBASIN IN BOTH DIRECTIONS. USE 1/4"-20 UNC HARDWARE (3) PROVIDED TO ANCHOR BACKSPLASH BRACKETS (4) TO PEDESTAL FRAME (5). SEE DETAIL B.
- D-IF NECESSARY ADJUST HEIGHT OF THE FRONT FACE PLATES (6) TO CLEAR BOTTOM OF THE WASHBASIN. SEE DETAIL C.

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

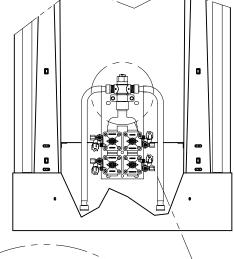
MODEL SHOWN

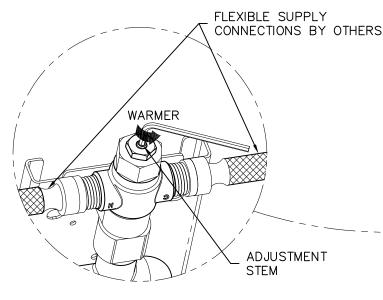
- F- FOR -H HAND OPERATED UNITS, CONNECT POLYETHYLENE 1/8" O.D. AIR LINES (7) TO PUSHBUTTONS (8) AND TO AIR-CONTROL VALVE ASSEMBLY (9) BY HAND TIGHTENING THE FERRULE NUTS PROVIDED. SEE DETAIL D.
- G-CONNECT 1/4" O.D. WATERLINES (10) FROM WASHBASIN SPOUTS TO VALVE (9) WATERTIGHT WITH FERRULE NUTS PROVIDED.
- H-AFTER THOROUGHLY FLUSHING SUPPLY LINES, CONNECT INSTALLER PROVIDED CONNECTION (11) (1/2" NPS FEMALE) FROM VALVE (9) INLETS TO SUPPLY STUB-OUTS. (NOTE: SUPPLY INLET CONNECTIONS WILL ACCOMMODATE 1/2" NPT MALE ADAPTERS).
- I- ALL WASTE PIPING (2) AND CONNECTIONS TO WALL ARE FACTORY PROVIDED. ASSEMBLE WASTE PIPING AND MAKE-UP LAVY WASTE CONNECTION (1-1/2" O.D. COMPRESSION). SEE APPROPRIATE REFERENCE DRAWING FOR PARTS.
- J- TURN ON WATER SUPPLY. CHECK FOR LEAKS. ON -H VALVE (9) ADJUST TIMERS (13) TO GET DESIRED WATER CYCLE LENGTH.
- K-ASSEMBLE PANELS (14) TO PEDESTAL FRAME (5) WITH VANDAL RESISTANT FASTENERS (15) PROVIDED. SEE DETAIL E.

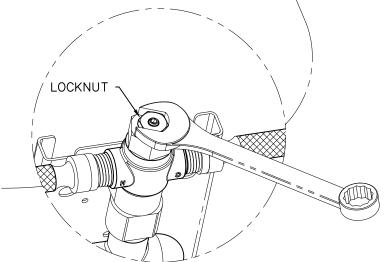




REFERENCE DRAWINGS		
REPAIR PARTS	DRAWING	
NON-METERING SERVOMOTOR (-F)	9955-001-003	
METERING SERVOMOTOR (-H)	9955-000-003	
AIR-CONTROL VALVE BODY	9975-090-001	
CHECKSTOP (-ST Single Temp. Only)	9956-040-003	
SENSOR/SOLENOID (-SO) (24VAC)	9955-015-002	
SENSOR/SOLENOID/PPZ (-SO) (9VDC)	9955-019-002	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







VALVE INSTALLLATION:

- 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" NPTE.
- 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.

	ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	VALVE INSTALL & MIXING VALVE ADJUSTMENT		
	, ,	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
		MARCH 2014	03/25/14	
~		TO PRESENT	DATE REVISED	9912-252-002
3/32				



CORTERRA

SOLID SURFACE

MAINTAINING CORTERRA:

CORTERRA SHOULD BE KEPT CLEAN AT ALL TIMES. IF MAINTAINED, CORTERRA SURFACES WILL RETAIN THEIR NEW, CLEAN APPEARANCE INDEFINITELY.

IN ORDER TO REMOVE ANY UNWANTED STAINS, WASH WITH SOAPY WATER THEN RINSE.

IN ORDER TO PREVENT WATER STAINS FROM OCCURRING, DRY SURFACE RIGHT AFTER RINSING. IF THE STAIN PERSISTS, USE A SCOTCH BRITE PAD AND AN CAN ALSO USE A SOLUTION CONSISTING OF HOUSEHOLD BLEACH AND WATER (1 PART WATER TO 1 PART BLEACH). RINSE AND WIPE SURFACE DRY.

REPAIRING CORTERRA:

TO REMOVE CUTS AND SCRATCHES USE 400 GRIT SANDPAPER, FOLLOWED BY AN ABRASIVE CLEANER AND SCOTCH BRITE PAD.

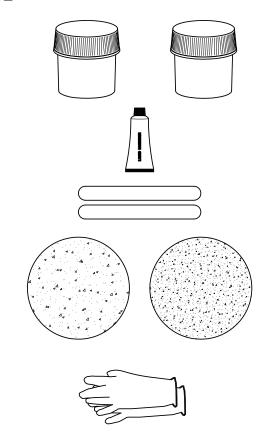
TO REPAIR CHIPPED CORTERRA:

(USING REPAIR KIT AVAILABLE FROM ACORN) DO THE FOLLOWING:

- 1- PUT ON GLOVES PRIOR TO HANDLING ANY OF THE MATERIALS IN THE KIT, AND ENSURE ADEQUATE VENTILATION.
- 2- ADD CONTENTS OF "B" (LIQUID RESIN) TO LARGER CONTAINER "A" (SOLID FILLER). MIX COMPLETELY USING WOODEN STICK.
- 3- ADD TUBE OF "C" (LIQUID CATALYST). MIX FOR TWO (2) MINUTES.

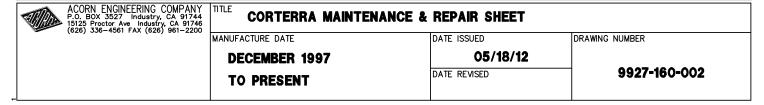
 CAUTION: CATALYST GEL TIME AT 75° F
 IS 15 MINUTES.
- 4— APPLY MIXED MATERIAL TO DAMAGED AREA USING WOODEN STICK.

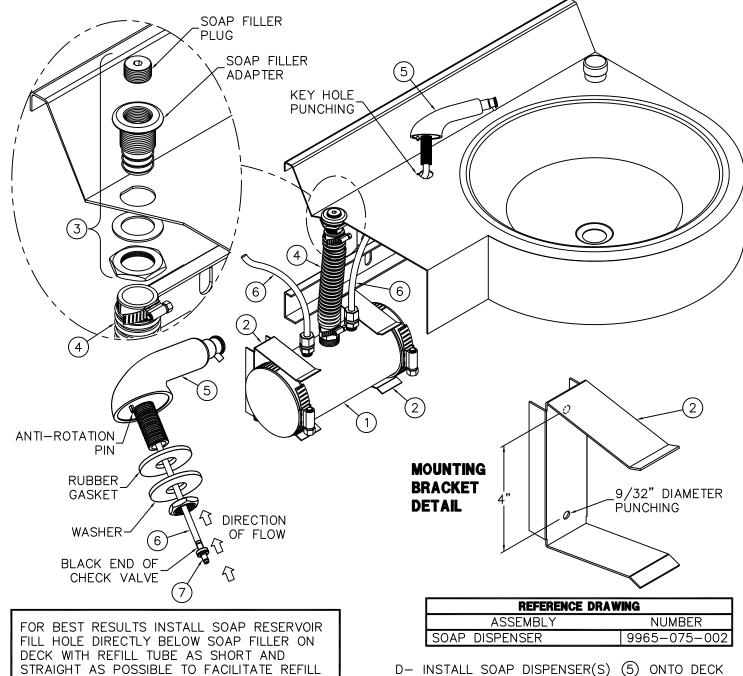
 NOTE: APPLY ONLY AS MUCH PATCH AS REQUIRED.
- 5- LET CURE APPROXIMATELY 3-4 HOURS.
 NOTE: FOR A "FAST CURE" OF APPROXIMATELY 10
 MINUTES, USE A LAMP WITH A 100 WATT LIGHT BULB
 SHINING ON PATCHED AREA ABOUT 2-1/2" FROM
 PATCH.
- 6- USE COARSE GRAINED SANDPAPER TO SAND OFF EXTRA MATERIAL ONCE PATCH IS HARD.
- 7- USE MEDIUM GRAINED SANDPAPER FOR FINER FINISH.
- 8- USE FINE GRAINED SAND PAPER FOR "POLISHED" FINISH.
- 9- DISCARD EXTRA PATCH MATERIAL



KIT NUMBERS	COLOR
6206-456-001	PEPPERCORN (OCC06)
6206-530-001	SMOKEY GRANITE (OCCO1A)
6206-531-001	IVERSTONE (OCC02A)
6206-532-001	SAHARA (OCCO3A)
6204-533-001	SUNSET STONE (OCC05A)
6206-535-001	IMPERIAL JADE (OCCO7A)
6206-536-001	MIDNIGHT SAPPHIRE (OCC08A)
6206-537-001	OBSIDIAN (OCCO9A)
6206-538-001	ANTIQUE LACE (OCC10A)

WARNING! REPAIR KIT MATERIALS ARE FLAMMABLE, KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. AVOID WITH SKIN. WASH WITH SOAP AND WATER AFTER SKIN CONTACT. IN CASE OF EYE CONTACT, FLUSH WITH WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION. HARMFUL IF SWALLOWED. KEEP OUT OF REACH OF CHILDREN.





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

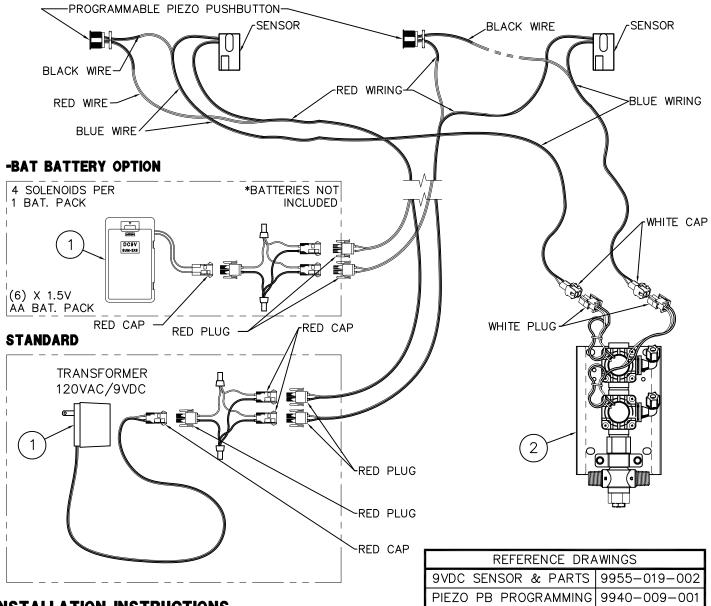
OF SOAP WITHOUT BACKUP OR OVERFLOW.

- 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.

P.O. BOX 3527 Industry, CA 91744 MORRIS GROUP 15125 Proctor Ave Industry, CA 91746	-PDM SOAP DISPENSER INST	ALLATION DETAIL	
INTERNATIONAL (626) 336-4561 FAX (626) 961-2200	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
	JUNE 2001	08/24/01	
755	TO PRESENT	DATE REVISED 06/22/04	9927-210-003



TWO STATION WIRING DIAGRAM SHOWN



- **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.

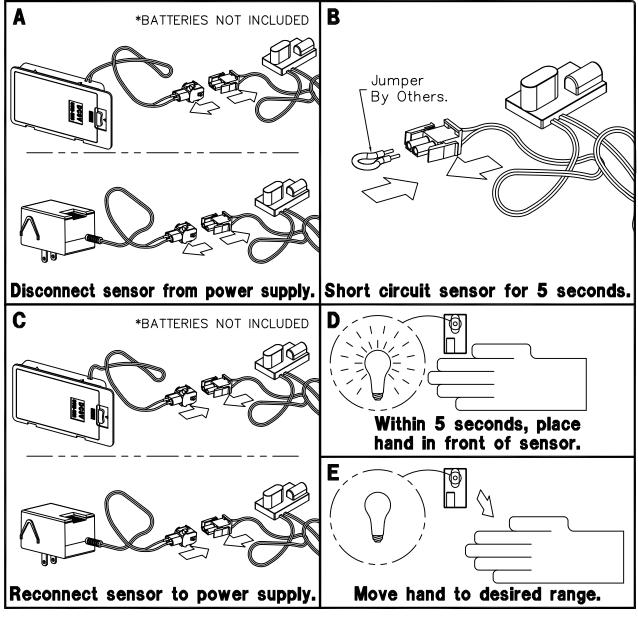
- D-CONNECT SOLENOID VALVE, POWER SUPPLY AND SENSOR WIRING AS SHOWN ON DETAIL.
- E- COMPLETE THE INSTALLATION OF THE UNIT ACCORDING TO THE UNITS INSTALLATION INSTRUCTIONS.

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).

	ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	-SO SENSOR/ -PPZ PIEZO ELECTRONIC PUSHBUTTON INSTALLATION		
	` , , , , , , , , , , , , , , , , , , ,	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
		OCTOBER 2009	09/06/13	
1/32		TO PRESENT	DATE REVISED 03/25/14	9927-221-005





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.

MORRIS GROUP INT P.O. BOX 3527 Industry, CA 91744 MORRIS GROUP 15125 Protor Ave Industry, CA 916-22 INTERNATIONAL (626) 336-4551 FAX (626) 961-22	9 VOLI DE SENSOR RANGE	ADJUSTMENT	
INTERNATIONAL (626) 336-4561 FAX (626) 961-22	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
	SEPTEMBER, 2001	09/06/01	
*	TO PRESENT	DATE REVISED 02/18/14	9927-222-002

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.

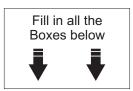
- When a **timing mode is not required** then **do not** push the button and wait for the next timing mode.
- Each timing mode (1 sec, 5 sec or 20 sec timing mode) can be sequenced up to 100 times, that is the number of times, the button can be pushed, to increase the total timing cycle in each timing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

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Programmable Piezo Pushbutton Programming Instructions (Flow Time Adjustment)

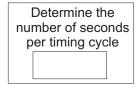
WORKSHEET

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



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.



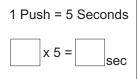
x 1 =



- 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 👭

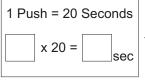
sec





- 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 N





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

EQUALS ↓

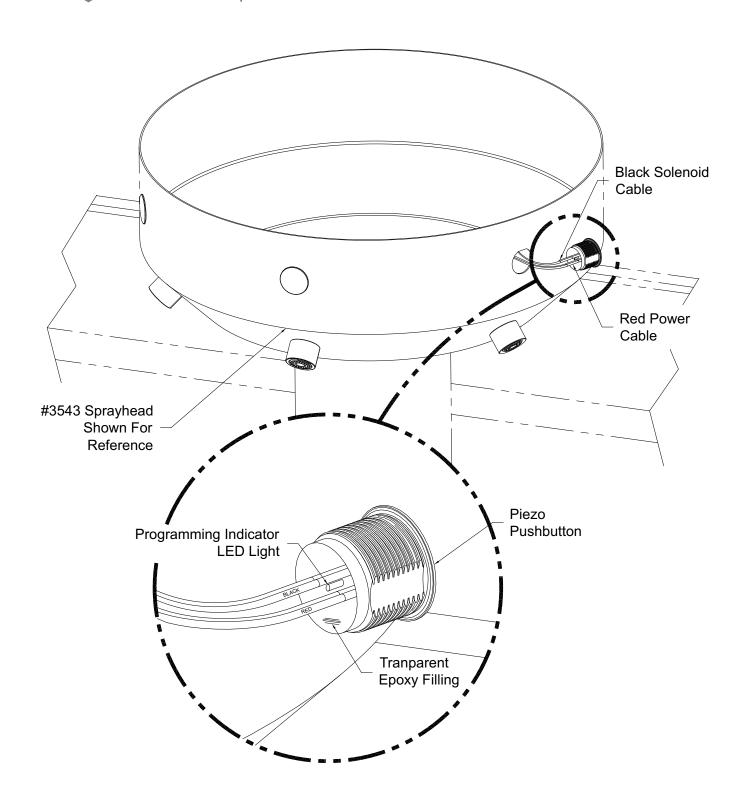
Total timing cycle equals		
	seconds	

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INSTALLATION, OPERATIONS & MAINTENANCE MANUAL



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



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