

A481CUSP Series
Fully Recessed, Fountain & Cuspidor



A481400S, A481400S-CUSP, & A4804000-CUSP

TECHNICAL ASSISTANCE TOLL FREE TELEPHONE NUMBER:

1.800.743.8259

Technical Assistance E-Mail: Fieldservice@acorneng.com

NOTES TO INSTALLER:

1. Please leave this documentation with the owner of the fixture when finished.
2. Please read this entire booklet before beginning the installation.
3. Check your installation for compliance with plumbing, electrical and other applicable codes.

For current Warranty click hyperlink [Product Warranty](#) or visit: www.murdockmfg.com/terms-and-warranty

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7020-005-001
1 of 9

01/31/24 A

COMPLIES WITH
STANDARDS



NSF/ANSI 61



Federal
Public Law
111-380
(No Lead)



Test rating conditions are
compliant with ARI 1010.

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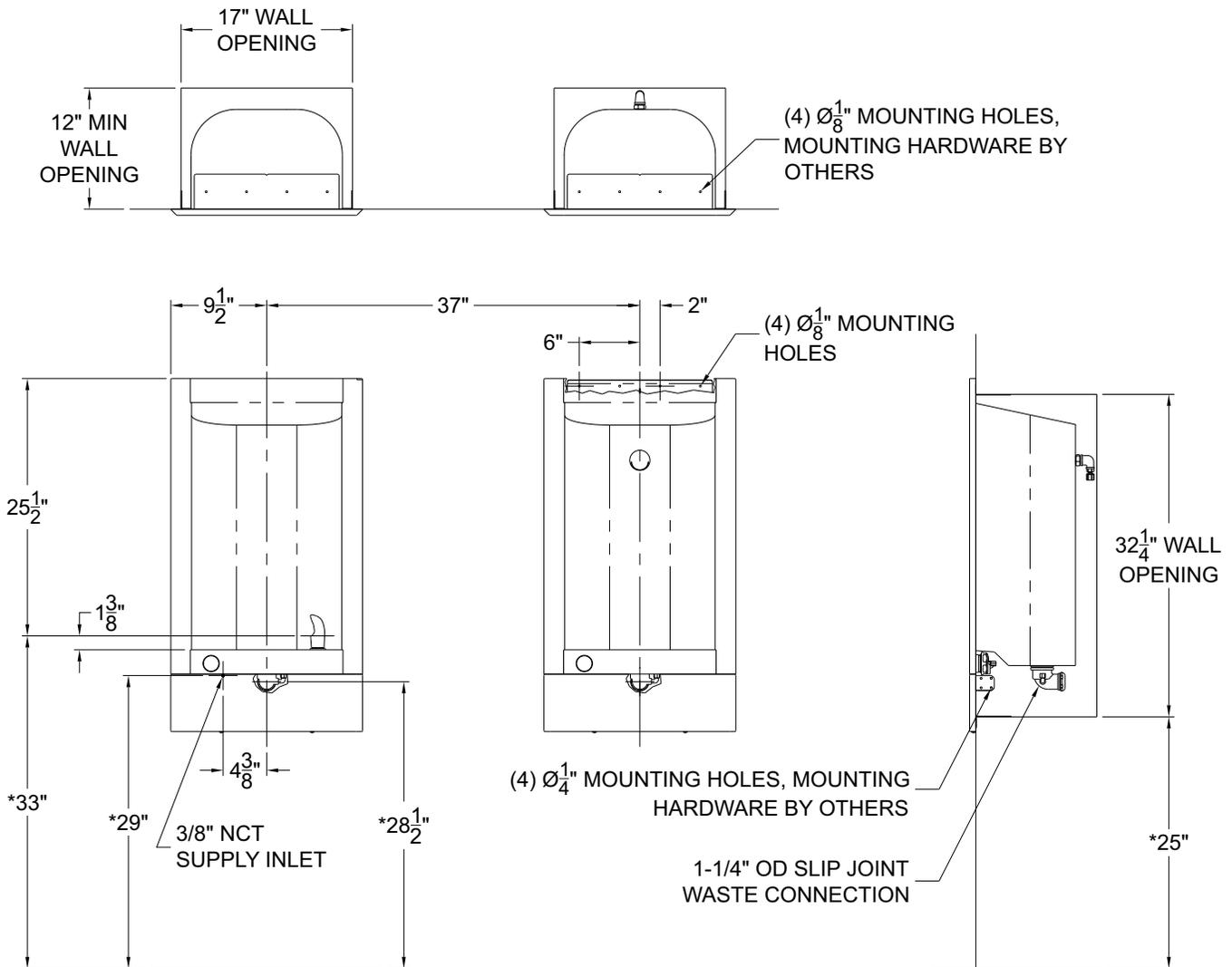
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SINCE 1853

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626-336-4561
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ROUGHING-IN AND DIMENSIONAL DRAWING

Prior to roughing-in consult with local, state, and federal codes for proper mounting height.

A481CUSP SERIES FULLY RECESSED FOUNTAIN & CUSPIDOR



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN INCHES [MM].
- *2. DIMENSIONS SHOWN ARE FOR RECOMMENDED ADULT HEIGHT. ADJUST VERTICAL DIMENSIONS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, & LOCAL CODES.
3. STOP VALVE AND MOUNTING HARDWARE NOT PROVIDED.

IMPORTANT:

1. Waste P-Trap and Water Supply Service Stop Valve to be supplied by others in accordance with local codes.
2. Water supply inlet is 3/8" OD copper tube (Fountain) and 1/2" NPSM (Cuspidor). See Figure "D". Waste is 1-1/4" OD female slip joint connection.
3. Completely flush supply lines of all foreign debris before connecting to the fixture. Optional water filter is available should there be problems from the water supply with taste, odor, color, or sediment.
4. **WARNING:** Warranty is voided if installation is not made following current Murdock Manufacturing Installation instructions and if components are assembled to the fixture that are not approved by Murdock Manufacturing.
5. Fixture operates within water pressure range of 20 to 105 psig. Murdock Manufacturing will not warranty fixtures damaged when connected to supply lines with flow pressure lower than 20 psig or higher than 105 psig. A pressure regulator must be furnished by others on the supply line if inlet pressure is greater than 105 psig.

INSTALLATION:

1. Install Mounting Brackets to the bottom and top of the Rough-In opening. **WARNING:** Mounting Brackets **MUST** be securely anchored and centered within the opening. See Figure B.
2. Install the Air Valve Assembly roughly in position as shown in Figure B. This is supplied for the Cuspidor unit only and the installation method will be by others.
3. Hang the Fountain and Cuspidor on the upper Mounting Bracket making sure the bracket and flange from the Fountain and Cuspidor engage. The Fountain and Cuspidor must sit flush against the wall.
4. Locate the provided "L" brackets in relation to the Tabs from the Fountain and Cuspidor. Mark the hole locations, remove the Fountain and Cuspidor and then mount the brackets.
5. Install the captive nuts into the "L" Brackets as shown in Figure C.
6. Re-hang the Fountain and Cuspidor assembly. Secure the Fountain and Cuspidor to the "L" brackets using the supplied #10-32 screws and washers. The screws need to pass through the tab and into the "L" brackets containing the captive nut. Tighten the screws to pull the Fountain and Cuspidor flush with the wall.
7. Install water supply and drain as required per Figure A Rough-In dimensions.
8. Thoroughly flush the supply line, connect water supply to the Cuspidor.
9. Make up 1-1/4" OD P-Trap waste connection.

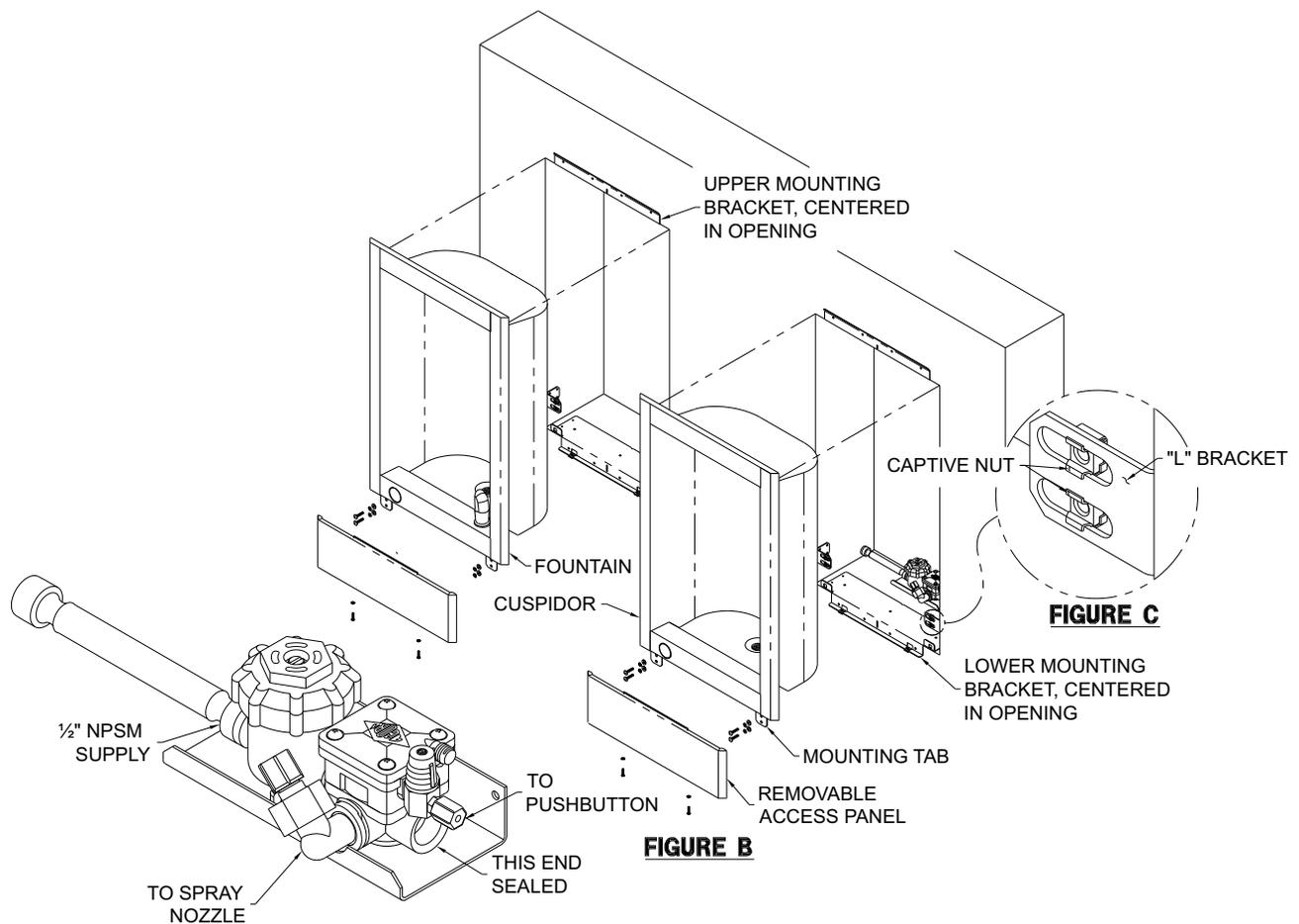


FIGURE D

START UP:

1. Before assembling bottom access covers to Cuspidor and Fountain, but after thoroughly flushing the supply line and connecting it to the fixture, turn on building water supply and check all connections for leaks.
2. Air within the Fountain and Cuspidor or the structure supply piping will cause an irregular outlet stream until purged out by incoming water.
3. Recheck all water and drain connections with water flowing through system.
4. Install Removable Access Covers to the Fountain and Cuspidor bottom Mounting Bracket, install the supplied #8-32 screws and washers from the bottom of the Removable Access Cover.

CLEANING & MAINTENANCE GUIDE:

1. Periodically remove access panels and clean out in-line strainer.
2. Do NOT use harsh chemicals, abrasive or petroleum based cleaners. Use of these will void the Acorn warranty.
3. Exterior panels can be cleaned using mild household detergents or warm, soapy water. Extra care must be used cleaning chrome plated items and mirror finished stainless steel. They can scratch easily and should only be cleaned using a clean, soft cloth and mild soap with water or a mild glass cleaner.

TROUBLE SHOOTING:

IMPORTANT: BEFORE MAKING ANY OF THE REPAIRS LISTED, MAKE SURE THE WATER SUPPLY VALVE IS SHUT OFF.

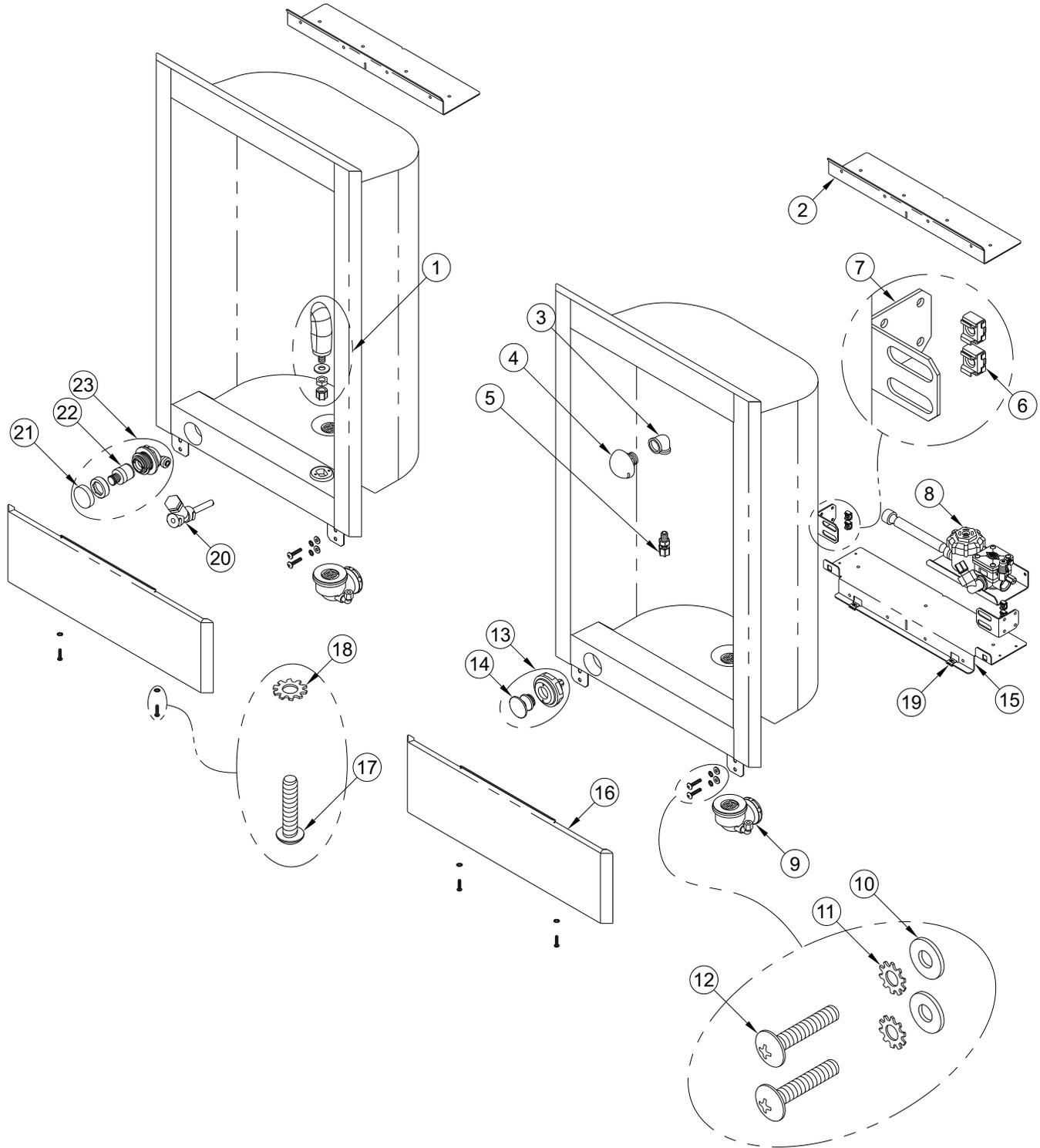
1. Adjustments:

- a. Cartridge - The flow can be adjusted using a slotted narrow blade screwdriver and turning clockwise to increase flow and counter clockwise to decrease flow.
- b. Bubbler stream - Bubbler can be rotated slightly to direct the stream backwards or forwards. Adjust the stream to minimize splashing. Splashing may occur from bubbler stream if the unit is not level.

2. Restricted or No Water Flow

- a. Ensure water supply service stop valve is fully open
- b. Verify minimum 20 psig supply line flow pressure.
- c. Check for twists or kinks in bubbler tubing.
- d. Check water inlet strainer. Sediment from the main supply can get trapped in the screen along with installation material such as pipe dope and flux. The screen should be cleaned and check on a regular basis and replace if needed. **NOTE: STRAINER SCREEN MUST BE IN PLACE FOR WATER TO FLOW.**
- e. The cartridge valve located in the water control assembly or bubbler can also become clogged with foreign material. The cartridge valve can only be replaced and not repaired.
- f. Check flow adjustment.

PARTS BREAKDOWN DRAWING



A481400S-CUSP PART LIST:

ITEM	PART NUMBER	DESCRIPTION
1	7000-002-001	CHROME PLATED BRASS BUBBLER
	7000-099-002	FLEX BUBBLER GREY
2	7035-128-199	UPPER MOUNTING BRACKET
3	1720-010-000	REDUCING ELBOW
4	5200-151-001	SPRAY NOZZLE
5	1896-002-000	1/4" COMPRESSION NUT
6	0316-020-000	CAPTIVE NUT
7	7035-117-199	L BRACKET
8	7035-412-001	CHECK STOP & AIR VALVE ASSY
9	4926-055-001	GRID STRAINER w/ CLOSE ELL ASSY
10	0331-004-000	#10 FLAT WASHER
11	0321-011-000	#10 STAR WASHER
12	0116-006-000	#10-32 PHILLIPS SCREWS
13	7002-125-001	WELDED PUSHBUTTON AIR TROL VALVE ASSY
14	7002-125-002	PUSHBUTTON ASSY, AIR VALVE
15	7035-306-001	BRACKET, FRAME, LWR, FTN ONLY
16	7035-106-199	PANEL, LOWER, LONG
17	0279-002-000	#8-32 SOCKET CAP BUTTON HD SCREW 3/4" LG
18	0322-001-000	#8 PLATED STAR LOCK WASHER (EXTERNAL)
19	7000-415-000	SELF RETAINING J NUT
20	7000-021-001	"Y" STRAINER ASSEMBLY
21	7000-091-001	PUSHBUTTON w/ HEX ASSY
22	7000-060-000	FLOW REGULATOR CARTRIDGE (0.5 GPM)
23	7000-050-001	VALVE ASSEMBLY

A481400S PART LIST:

ITEM	PART NUMBER	DESCRIPTION
1	7000-002-001	CHROME PLATED BRASS BUBBLER
	7000-099-002	FLEX BUBBLER GREY
2	7035-128-199	UPPER MOUNTING BRACKET
3	N/A	N/A
4	N/A	N/A
5	N/A	N/A
6	0316-020-000	CAPTIVE NUT
7	7035-117-199	L BRACKET
8	N/A	N/A
9	4926-055-001	GRID STRAINER w/ CLOSE ELL ASSY
10	0331-004-000	#10 FLAT WASHER
11	0321-011-000	#10 STAR WASHER
12	0116-006-000	#10-32 PHILLIPS SCREWS
13	N/A	N/A
14	N/A	N/A
15	7035-306-001	BRACKET, FRAME, LWR, FTN ONLY
16	7035-106-199	PANEL, LOWER, LONG
17	0279-002-000	#8-32 SOCKET CAP BUTTON HD SCREW 3/4" LG
18	0322-001-000	#8 PLATED STAR LOCK WASHER (EXTERNAL)
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20	7000-021-001	"Y" STRAINER ASSEMBLY
21	7000-091-001	PUSHBUTTON w/ HEX ASSY
22	7000-060-000	FLOW REGULATOR CARTRIDGE (0.5 GPM)
23	7000-050-001	VALVE ASSEMBLY

Repairs must be made with Murdock Manufacturing parts only. Please order through your local representative or distributor. The phone number to locate your local representative is 1.800.591.9360.

A4804000-CUSP PART LIST:

ITEM	PART NUMBER	DESCRIPTION
1	N/A	N/A
2	7035-128-199	UPPER MOUNTING BRACKET
3	1720-010-000	REDUCING ELBOW
4	5200-151-001	SPRAY NOZZLE
5	1896-002-000	1/4" COMPRESSION NUT
6	0316-020-000	CAPTIVE NUT
7	7035-117-199	L BRACKET
8	7035-412-001	CHECK STOP & AIR VALVE ASSY
9	4926-055-001	GRID STRAINER w/ CLOSE ELL ASSY
10	0331-004-000	#10 FLAT WASHER
11	0321-011-000	#10 STAR WASHER
12	0116-006-000	#10-32 PHILLIPS SCREWS
13	7002-125-001	WELDED PUSHBUTTON AIR TROL VALVE ASSY
14	7002-125-002	PUSHBUTTON ASSY, AIR VALVE
15	7035-306-001	BRACKET, FRAME, LWR, FTN ONLY
16	7035-106-199	PANEL, LOWER, LONG
17	0279-002-000	#8-32 SOCKET CAP BUTTON HD SCREW 3/4" LG
18	0322-001-000	#8 PLATED STAR LOCK WASHER (EXTERNAL)
19	7000-415-000	SELF RETAINING J NUT
20	N/A	N/A
21	N/A	N/A
22	N/A	N/A
23	N/A	N/A

Repairs must be made with Murdock Manufacturing parts only. Please order through your local representative or distributor. The phone number to locate your local representative is 1.800.591.9360.