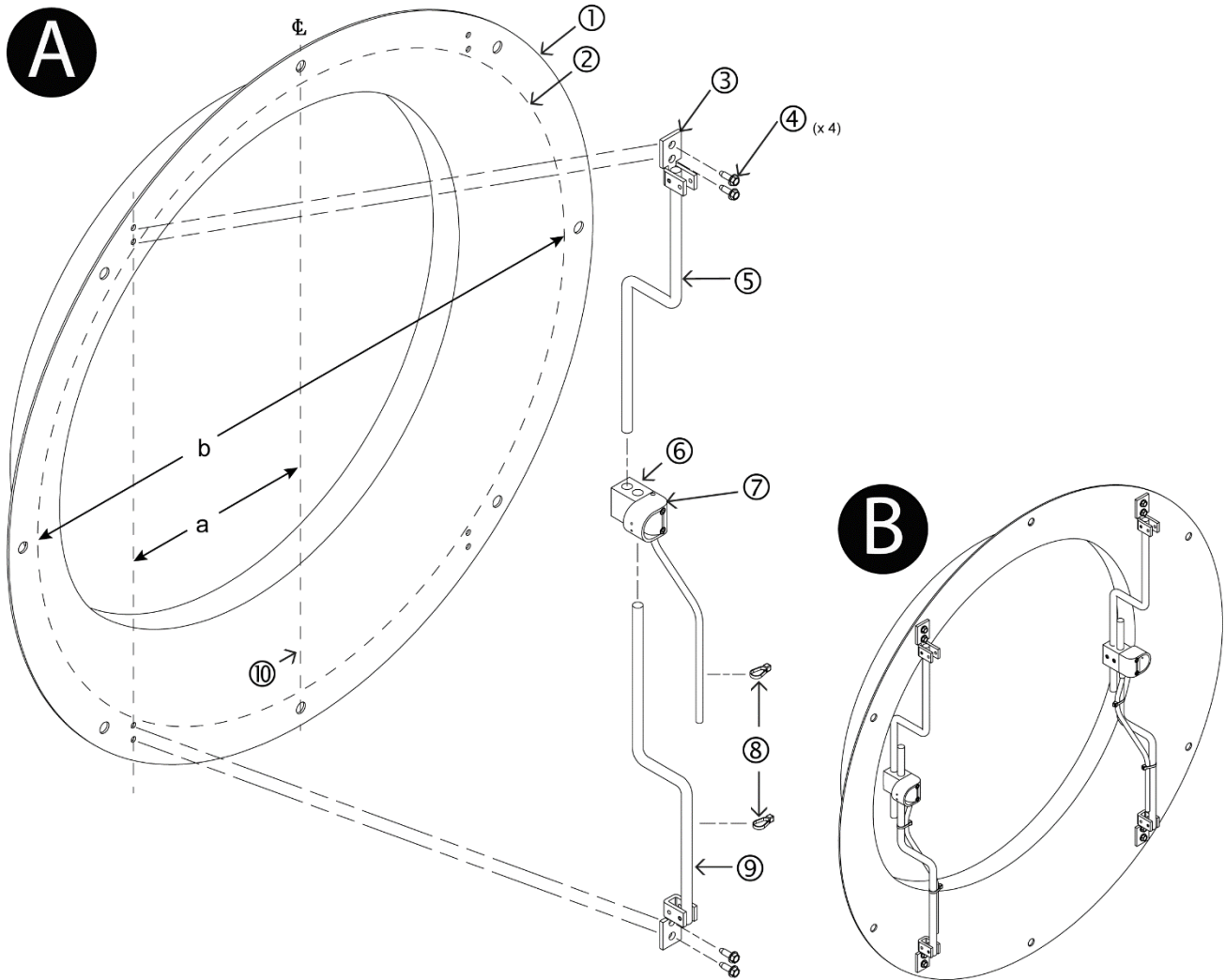


## -F Probe Installation (Face Mounting)



Step 1. Select a location on the face of the fan that allows clearance for probe placement and installation.



*Single and dual inlet fan applications (-F/SI and -F/DI) use two probes per inlet, one each LEFT and RIGHT. Fan array models (-F/An) can use either one or two probes per inlet. If using one probe per inlet it is recommended to install probes alternating LEFT and RIGHT starting with LEFT in fan 1.*



*If installing two probes in fan inlet, probes should be installed parallel to each other.*



*It is recommended probes be installed vertically with sensors on horizontal centerline and cables exiting downward. Due to obstructions in the fan inlet it may be necessary to rotate the probes to complete installation.*

REFER TO FIGURE "A" WHEN COMPLETING STEPS 2 TO 15.



*When installing probes, the sensor housing shroud should always be pointing toward the side of the fan inlet bell indicated by the LEFT/RIGHT labels of the sensors. Figure "A" shows the LEFT side probe.*

Step 2. Mark the centerline [10] of the fan inlet bell [1].

Step 3. Measure the diameter 'b' straight across the horizontal centerline of the fan inlet bell [1], from where the flat outer flange of the fan inlet bell ends and the radius begins [2].

Step 4. Use the following table to determine 'a' (the distance from the vertical centerline [10] of fan to the centerline of the mounting feet [3]):

**Table 1. Face Mount Dimension 'a' Determination**

Inlet Face Diameter "b" (in)	"a" (in)	Inlet Face Diameter "b" (mm)	"a" (mm)
11	3-6/16	279.40	85.73
12	3-12/16	304.80	95.25
13	4-2/16	330.20	104.78
14	4-7/16	355.60	112.71
15	4-12/16	381.00	120.65
16	5-3/16	406.40	131.76
17	5-8/16	431.80	139.70
18	5-14/16	457.20	149.23
19	6-3/16	482.60	157.16
20	6-8/16	508.00	165.10
21	6-14/16	533.40	174.63
22	7-4/16	558.80	184.15
23	7-10/16	584.20	193.68
24	8	609.60	203.20
25	8-5/16	635.00	211.14
26	8-11/16	660.40	220.66
27	9-1/16	685.80	230.19
28	9-6/16	711.20	238.13
29	9-12/16	736.60	247.65
30	10-2/16	762.00	257.18
31	10-8/16	787.40	266.70
32	11	812.80	279.40
33	11-3/16	838.20	284.16

Inlet Face Diameter "b" (in)	"a" (in)	Inlet Face Diameter "b" (mm)	"a" (mm)
34	11-8/16	863.60	292.10
35	11-14/16	889.00	301.63
36	12-4/16	914.40	311.15
37	12-10/16	939.80	320.68
38	12-15/16	965.20	328.61
39	13-8/16	990.60	342.90
40	13-10/16	1016.00	346.08
41	14	1041.40	355.60
42	14-4/16	1066.80	361.95
43	14-11/16	1092.20	373.06
44	15-1/16	1117.60	382.59
45	15-7/16	1143.00	392.11
46	15-12/16	1168.40	400.05
47	16-2/16	1193.80	409.58
48	16-8/16	1219.20	419.10
49	16-13/16	1244.60	427.04
50	17-2/16	1270.00	434.98
51	17-8/16	1295.40	444.50
52	17-14/16	1320.80	454.03
53	18-4/16	1346.20	463.55
54	18-9/16	1371.60	471.49
55	18-15/16	1397.00	481.01
56	19-4/16	1422.40	488.95

Inlet Face Diameter "b" (in)	"a" (in)	Inlet Face Diameter "b" (mm)	"a" (mm)
57	19-10/16	1447.80	498.48
58	20	1473.20	508.00
59	20-6/16	1498.60	517.53
60	20-11/16	1524.00	525.46
61	21	1549.40	533.40
62	21-7/16	1574.80	544.51
63	21-12/16	1600.20	552.45
64	22-2/16	1625.60	561.98
65	22-8/16	1651.00	571.50
66	22-13/16	1676.40	579.44
67	23-3/16	1701.80	588.96
68	23-9/16	1727.20	598.49
69	23-14/16	1752.60	606.43
70	24-4/16	1778.00	615.95
71	24-10/16	1803.40	625.48
72	24-15/16	1828.80	633.41
73	25-5/16	1854.20	642.94
74	25-11/16	1879.60	652.46
75	26	1905.00	660.40
76	26-6/16	1930.40	669.93
77	26-12/16	1955.80	679.45

Step 5. Mark the location determined in Step 4, on the flat outer flange of the fan inlet bell [10].

Step 6. Insert upper mounting rod [5] (attached to mounting foot [3] at inner roll pin) into the hole of the sensor mounting block [6] furthest from sensor housing [7].

Step 7. Insert lower mounting rod [9] (attached to mounting foot [3] at outer roll pin) into the hole of the sensor mounting block [6] closest to sensor housing [7].



*Use the included hex wrench to tighten set screws in the probe only enough to hold the rods while marking.*

Step 8. Using the mounting feet [3] as a template, mark and drill the four pilot holes on the fan inlet bell flange for the mounting screws [4] selected, so that the mounting feet [3] will be centered on the lines that were marked in Step 5 (screws not provided).

Step 9. Confirm that the airflow directional arrow is pointing in the direction of airflow, and the cable is exiting downward.

Step 10. Position the probe on the fan inlet bell, and secure with four mounting screws [4] in the pre-drilled holes (screws not provided).



*Failure to properly install the probe can result in probe and/or fan damage.*

Step 11. If necessary, loosen set screws and position the sensor on the rods, so that it is on the centerline of the fan inlet bell.

Step 12. Once centered, tighten the set screws using the hex wrench provided.

Step 13. Using the tie wraps [8] provided secure cable to mounting rod so that it follows the bends, (minimum of two tie wraps [8] per probe).

Step 14. If installing two probes in the fan inlet, repeat Step 5 to 13, otherwise, continue to Step 15.

Step 15. For dual fan inlet or fan array applications, repeat steps above to install probes at the other fan inlet opening(s).

Step 16. Probe installation is complete! Figure "B" shows a completed two probe installation.