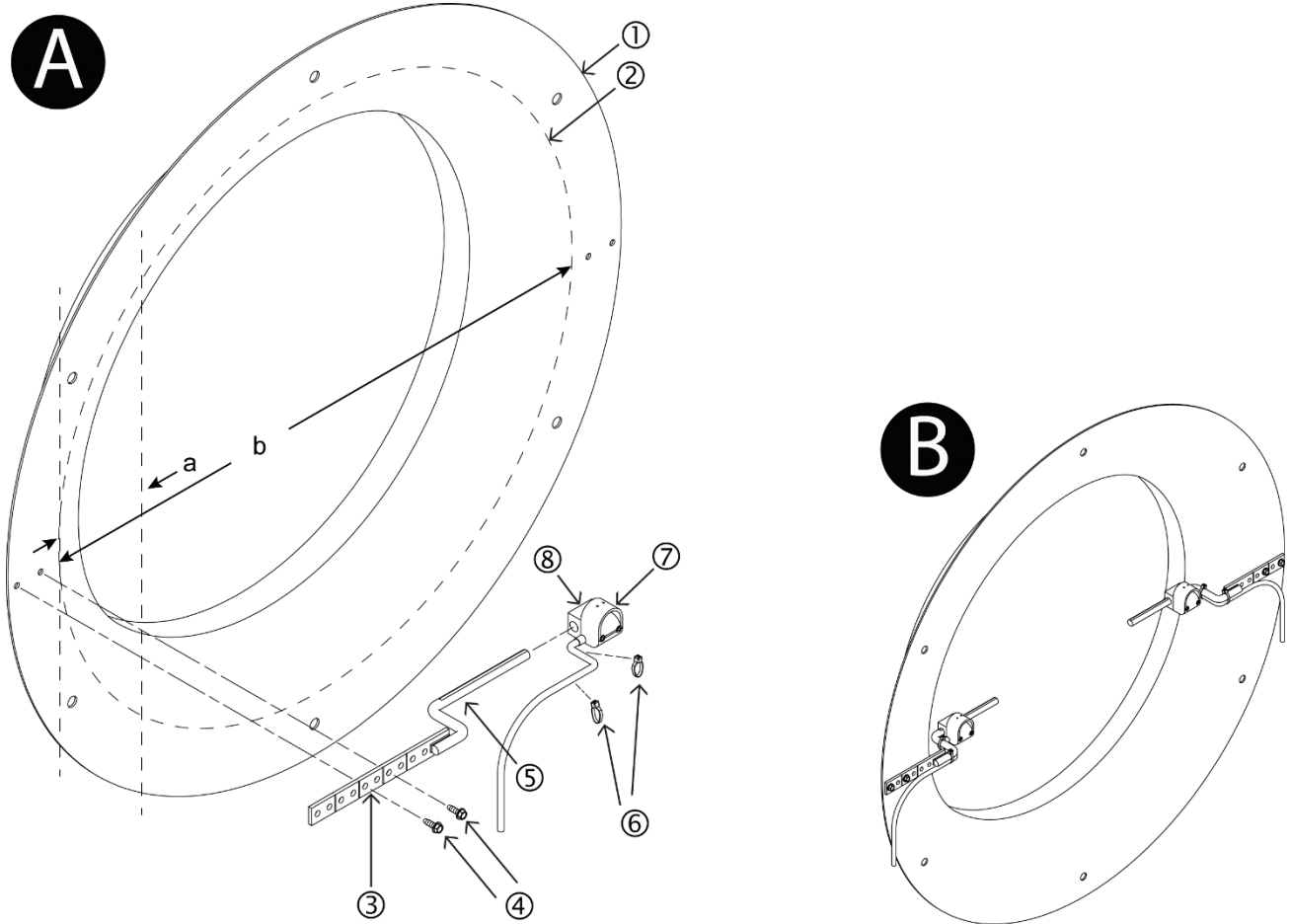


-F Probe Installation (Cantilever Mounting)



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 180 degrees from each other.



It is recommended probes be installed on horizontal centerline with cables exiting toward mounting screws, however 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 16.

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



Marking the centerline across the outer fan inlet flange will make it easier to position the mounting rods in the following steps.

Step 3. Use the following table to determine 'a' (the distance from where the flat outer flange of the fan inlet bell ends and the radius begins to the centerline of the sensor):

Table 1. Cantilever Mount Dimension 'a' Determination

Inlet Face Diameter "b" (in)	"a" (in)	Inlet Face Diameter "b" (mm)	"a" (mm)	Inlet Face Diameter "b" (in)	"a" (in)	Inlet Face Diameter "b" (mm)	"a" (mm)	Inlet Face Diameter "b" (in)	"a" (in)	Inlet Face Diameter "b" (mm)	"a" (mm)
11	1-10/16	279.40	40.92	35	5-2/16	889.00	130.19	59	8-10/16	1498.60	219.46
12	1-12/16	304.80	44.64	36	5-4/16	914.40	133.91	60	8-13/16	1524.00	223.18
13	1-14/16	330.20	48.36	37	5-7/16	939.80	137.63	61	8-15/16	1549.40	226.90
14	2-1/16	355.60	52.08	38	5-9/16	965.20	141.35	62	9-1/16	1574.80	230.62
15	2-3/16	381.00	55.80	39	5-11/16	990.60	145.07	63	9-4/16	1600.20	234.34
16	2-5/16	406.40	59.52	40	5-14/16	1016.00	148.79	64	9-6/16	1625.60	238.06
17	2-8/16	431.80	63.24	41	6	1041.40	152.51	65	9-8/16	1651.00	241.78
18	2-10/16	457.20	66.96	42	6-2/16	1066.80	156.23	66	9-11/16	1676.40	245.50
19	2-13/16	482.60	70.68	43	6-5/16	1092.20	159.95	67	9-13/16	1701.80	249.22
20	2-15/16	508.00	74.39	44	6-7/16	1117.60	163.67	68	9-15/16	1727.20	252.94
21	3-1/16	533.40	78.11	45	6-9/16	1143.00	167.39	69	10-2/16	1752.60	256.66
22	3-4/16	558.80	81.83	46	6-12/16	1168.40	171.11	70	10-4/16	1778.00	260.38
23	3-6/16	584.20	85.55	47	6-14/16	1193.80	174.83	71	10-6/16	1803.40	264.10
24	3-8/16	609.60	89.27	48	7	1219.20	178.55	72	10-9/16	1828.80	267.82
25	3-11/16	635.00	92.99	49	7-3/16	1244.60	182.27	73	10-11/16	1854.20	271.54
26	3-13/16	660.40	96.71	50	7-5/16	1270.00	185.99	74	10-13/16	1879.60	275.26
27	3-15/16	685.80	100.43	51	7-8/16	1295.40	189.71	75	11	1905.00	278.98
28	4-2/16	711.20	104.15	52	7-10/16	1320.80	193.43	76	11-2/16	1930.40	282.70
29	4-4/16	736.60	107.87	53	7-12/16	1346.20	197.15	77	11-4/16	1955.80	286.42
30	4-6/16	762.00	111.59	54	7-15/16	1371.60	200.87	78	11-7/16	1981.20	290.14
31	4-9/16	787.40	115.31	55	8-1/16	1397.00	204.59	79	11-9/16	2006.60	293.86
32	4-11/16	812.80	119.03	56	8-3/16	1422.40	208.31	80	11-11/16	2032.00	297.58
33	4-13/16	838.20	122.75	57	8-6/16	1447.80	212.03	81	11-14/16	2057.40	301.30
34	5	863.60	126.47	58	8-8/16	1473.20	215.75	82	12	2082.80	305.02

Step 4. Position the mounting foot [③] on the fan inlet bell with the offset extending into the bell [⊙], so that the sensor can be positioned according to the determination made in Step 3.

Step 5. Using the mounting foot as a template, mark the location for the two mounting screws on the fan inlet bell flange, so that the mounting rod [⊙] will be located on the centerline of the fan inlet bell.

i *Two #10 thread forming screws are included. If providing additional mounting screws, use the same size and type.*

Step 6. Mark the rod where the fan inlet bell flange ends, and the radius begins.

Step 7. If necessary, break off any unused sections from the mounting foot. The sections can be broken away at the grooves.

Step 8. Drill pilot holes using a #21 drill bit (0.159") for the mounting screws [④] at the locations marked in Step 5.

Step 9. Measuring from the mark on the rod that was made in Step 6, position the sensor [⊗] on the rod so that it is centered, according to the determination made in Step 3.

! *The sensor must be installed on the rod before installing assembly on fan.*

! *The sensor must be mounted so that it offsets back into the bell.*

! *Sensor adjustment or replacement needs to be performed with caution. Applying force to the v-grooves after sensor assembly has been installed can fracture the mounting foot and cause failure.*

Step 10. Confirm that the airflow directional arrow is pointing in the direction of the airflow, and the cable is exiting toward the mounting screws.

Step 11. Once centered, align the setscrews in mounting blocks [③] with the flats on the rods, and tighten the set screws using the hex wrench provided.

Step 12. Position the probe on the fan inlet bell, and secure with #10 thread forming screws [④] provided.

Step 13. Torque the mounting screws to 50 in-lb and confirm the screw head is flat on the mounting foot.



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

Step 14. Using the tie wraps [Ⓢ] provided secure cable to mounting rod so that it follows the bends, (minimum of two tie wraps per probe).

Step 15. If installing two probes in the fan inlet, repeat Steps 4 to 14, otherwise continue to Step 16.

Step 16. For dual fan inlet or fan array applications, repeat steps above to install probes at the other fan inlet opening(s).

Step 17. Probe installation is complete! Figure “B” shows a completed two probe installation.