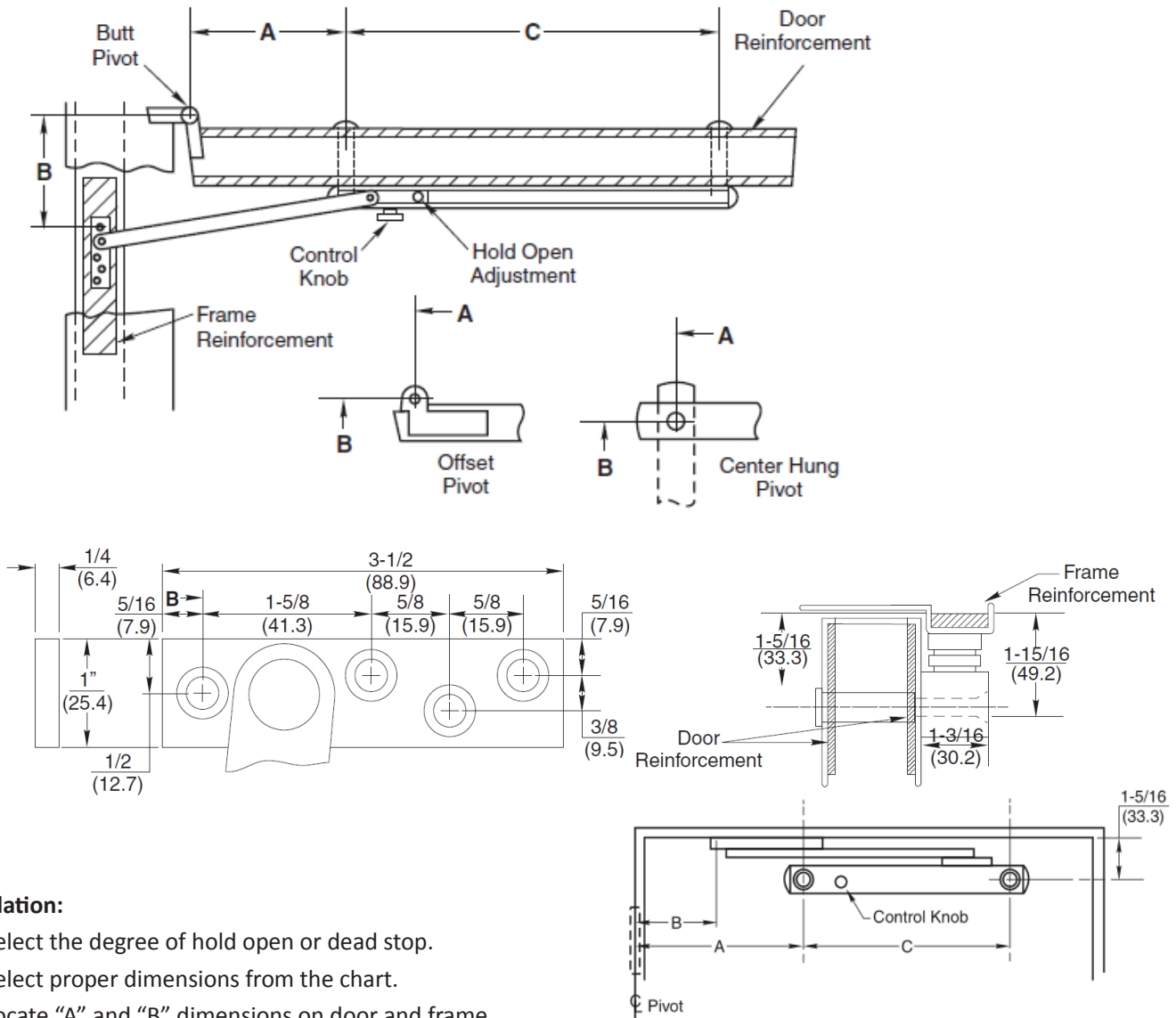


HD660 Series Installation Instructions

(Heavy Duty, Surface Mount - HOLD-OPEN)



Installation:

1. Select the degree of hold open or dead stop.
2. Select proper dimensions from the chart.
3. Locate "A" and "B" dimensions on door and frame.
4. Install jamb bracket on stop strip as shown.
5. Position channel on door with shock end located towards pivot. Drill 1/2 dia. sex bolt hole, "A" dimension 1-5/16 down from stop strip as shown.
6. Install channel on door with "A" dimension sex bolt. Locate "C" dimension sex bolt hole making sure that channel is horizontal and parallel with stop strip. Drill 1/2 (12.7) dia. sex bolt hole and finish installing holder. Install control knob on channel as shown.

Notes:

1. All hollow metal frames should be properly reinforced with 3/16 min thickness x 12" min. length reinforcement plates.
2. All hollow metal doors should be reinforced with 2-1/2 wide x 3/16 min. thick x full width of door reinforcement plates.
3. All drilling and tapping to be done by filed men.
4. Suggest mounting door stop or holder first and then other hardware to clear.
5. A, B and C dimensions are measured from center line of pivot, not edge of door.
6. All dimensions are given in inches.
7. Left hand shown – right hand opposite. (Note hole pattern in jamb bracket)



HD660 Series Installation Instructions

(Heavy Duty, Surface Mount - **HOLD-OPEN**)

HD660 Series Dimensions

H.O.=Hold Open

D.S.=Dead Stop

| Hinge | Model | Door opening | 90° | | | | 100° | | | | 110° | | | | C |
|--|--------|-----------------------|--------------------|------------------|-------------------|------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|
| | | | H.O. | | D.S. | | H.O. | | D.S. | | H.O. | | D.S. | | |
| | | | A | B | A | B | A | B | A | B | A | B | A | B | |
| 1 $\frac{3}{4}$ ~2 $\frac{1}{4}$ Butts & $\frac{3}{4}$ Offset Pivot | HD662H | 24~28 | 3 $\frac{7}{8}$ | 4 $\frac{3}{8}$ | 4 $\frac{1}{2}$ | 4 $\frac{3}{8}$ | 3 $\frac{5}{16}$ | 3 $\frac{13}{16}$ | 3 $\frac{5}{16}$ | 3 $\frac{13}{16}$ | --- | --- | --- | --- | 15 $\frac{15}{16}$ |
| | HD663H | 28 $\frac{1}{16}$ ~33 | 5 $\frac{11}{16}$ | 5 $\frac{7}{16}$ | 6 $\frac{5}{16}$ | 5 $\frac{7}{16}$ | 5 $\frac{1}{16}$ | 4 $\frac{13}{16}$ | 5 $\frac{11}{16}$ | 4 $\frac{13}{16}$ | 4 $\frac{9}{16}$ | 4 $\frac{5}{16}$ | 5 $\frac{3}{16}$ | 4 $\frac{5}{16}$ | 17 $\frac{3}{16}$ |
| | HD664H | 33 $\frac{1}{16}$ ~38 | 9 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | 9 $\frac{7}{8}$ | 6 $\frac{3}{4}$ | 8 $\frac{7}{16}$ | 5 $\frac{15}{16}$ | 9 $\frac{1}{16}$ | 5 $\frac{15}{16}$ | 7 $\frac{7}{8}$ | 5 $\frac{3}{8}$ | 8 $\frac{1}{2}$ | 5 $\frac{3}{8}$ | 18 $\frac{11}{16}$ |
| | HD665H | 38 $\frac{1}{16}$ ~43 | 12 $\frac{1}{8}$ | 8 $\frac{1}{2}$ | 12 $\frac{3}{4}$ | 8 $\frac{1}{2}$ | 11 $\frac{3}{16}$ | 7 $\frac{9}{16}$ | 11 $\frac{13}{16}$ | 7 $\frac{9}{16}$ | 10 $\frac{1}{2}$ | 6 $\frac{7}{8}$ | 11 $\frac{1}{8}$ | 6 $\frac{7}{8}$ | 20 $\frac{13}{16}$ |
| | HD666H | 43 $\frac{1}{16}$ ~48 | 15 $\frac{5}{8}$ | 9 $\frac{3}{4}$ | 16 $\frac{1}{4}$ | 9 $\frac{3}{4}$ | 14 $\frac{1}{2}$ | 8 $\frac{5}{8}$ | 15 $\frac{1}{8}$ | 8 $\frac{5}{8}$ | 13 $\frac{11}{16}$ | 7 $\frac{13}{16}$ | 14 $\frac{5}{16}$ | 7 $\frac{13}{16}$ | 22 $\frac{5}{16}$ |
| 1 $\frac{3}{4}$ ~2 $\frac{1}{4}$ Center Hung | HD662H | 25 $\frac{1}{2}$ ~30 | 4 $\frac{3}{4}$ | 5 $\frac{1}{4}$ | 5 $\frac{3}{8}$ | 5 $\frac{1}{4}$ | 4 $\frac{3}{16}$ | 4 $\frac{11}{16}$ | 4 $\frac{13}{16}$ | 4 $\frac{11}{16}$ | 3 $\frac{11}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{5}{16}$ | 4 $\frac{3}{16}$ | 15 $\frac{15}{16}$ |
| | HD663H | 30 $\frac{1}{16}$ ~36 | 6 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | 7 $\frac{1}{8}$ | 6 $\frac{1}{8}$ | 5 $\frac{13}{16}$ | 5 $\frac{7}{16}$ | 6 $\frac{7}{16}$ | 5 $\frac{7}{16}$ | 5 $\frac{5}{16}$ | 4 $\frac{15}{16}$ | 5 $\frac{15}{16}$ | 4 $\frac{15}{16}$ | 17 $\frac{3}{16}$ |
| | HD664H | 36 $\frac{1}{16}$ ~41 | 10 | 7 $\frac{1}{2}$ | 10 $\frac{5}{8}$ | 7 $\frac{1}{2}$ | 9 $\frac{3}{16}$ | 6 $\frac{11}{16}$ | 9 $\frac{13}{16}$ | 6 $\frac{11}{16}$ | 8 $\frac{9}{16}$ | 6 $\frac{1}{16}$ | 9 $\frac{3}{16}$ | 6 $\frac{1}{16}$ | 18 $\frac{11}{16}$ |
| | HD665H | 41 $\frac{1}{16}$ ~46 | 12 $\frac{13}{16}$ | 9 $\frac{3}{16}$ | 13 $\frac{7}{16}$ | 9 $\frac{3}{16}$ | 11 $\frac{13}{16}$ | 8 $\frac{3}{16}$ | 12 $\frac{7}{16}$ | 8 $\frac{3}{16}$ | 11 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | 11 $\frac{3}{4}$ | 7 $\frac{1}{2}$ | 20 $\frac{13}{16}$ |
| | HD666H | 46 $\frac{1}{16}$ ~50 | 16 $\frac{3}{8}$ | 10 $\frac{1}{2}$ | 17 | 10 $\frac{1}{2}$ | 15 $\frac{1}{4}$ | 9 $\frac{3}{8}$ | 15 $\frac{7}{8}$ | 9 $\frac{3}{8}$ | 14 $\frac{3}{8}$ | 8 $\frac{1}{2}$ | 15 | 8 $\frac{1}{2}$ | 22 $\frac{5}{16}$ |