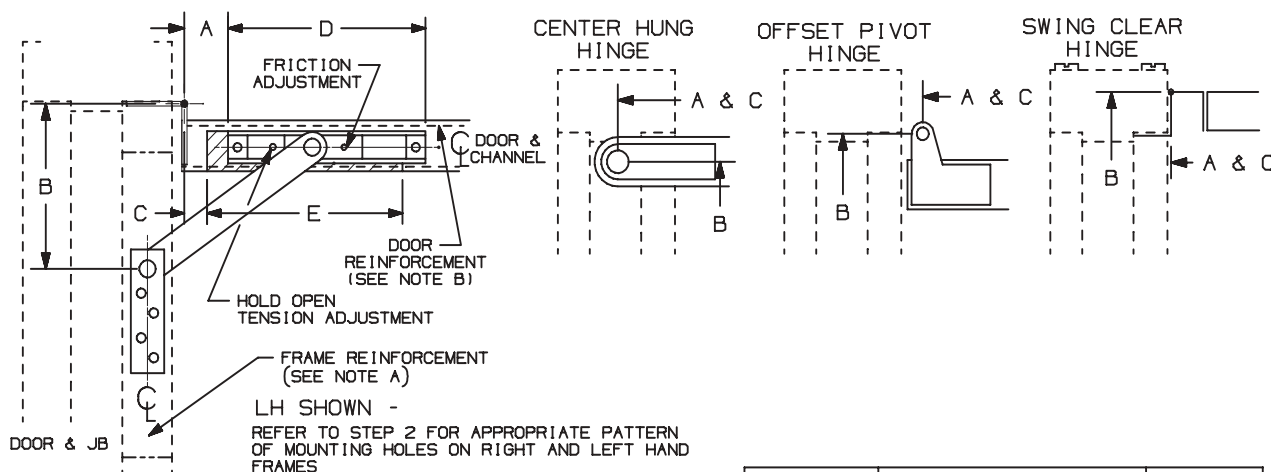


OVERHEAD HOLDERS OR STOPS MUST BE INSTALLED BEFORE CLOSERS

1. A. DETERMINE THE MOUNTING BEING USED FROM ILLUSTRATION BELOW.
- B. SELECT MOUNTING GROUP NUMBER FROM THE CHART BELOW. MOST CONTINUOUS HINGES ARE GROUPED WITH 4 1/2" WIDE BUTT OR 4 1/2" SWING CLEAR HINGE.
- C. USING THE MOUNTING GROUP NUMBER AND THE OVERHEAD HOLDER OR STOP SIZE AND THE DEGREE OF OPENING DESIRED, FIND "A","B","C","D", AND "E" DIMENSIONS FROM CHART ON PAGE 3. FOR DEAD STOP ADD 9/16"(14) TO THE "A" DIMENSION FROM THE CHART. SEE NOTE D FOR INFORMATION ABOUT DEAD STOP.



NOTES:

- A. HOLLOW METAL FRAMES SHOULD BE PROPERLY REINFORCED WITH A 3/16"(5) MINIMUM THICKNESS BY 12"(305) MINIMUM LENGTH PLATE.
- B. HOLLOW METAL DOORS SHOULD BE PROPERLY REINFORCED WITH A 3/16"(5) MINIMUM THICKNESS PLATE.
- C. STOP ONLY UNITS ARE PERMITTED ON MANY FIRE DOOR APPLICATIONS. HOWEVER, MECHANICAL HOLD-OPEN DEVICES THAT REQUIRE MANUAL RELEASE ARE NOT PERMITTED FOR USE ON ANY FIRE DOOR AS OUTLINED ON NFPA80® OR NFPA101®. CONTACT GLYNN-JOHNSON OR YOUR LOCAL REPRESENTATIVE FOR ASSISTANCE.
- D. DEAD STOP (DS) TEMPLATING MAY BE USED ON HOLD OPEN, FRICTION AND STOP ONLY MODELS, BUT SHOULD NOT BE USED ON "SE" MODELS. THE DS POSITION IS REACHED WHEN THE SHOCK SPRING IS FULLY COMPRESSED. WHEN DS TEMPLATING IS USED, THE INITIAL DEGREE OF STOP WILL BE 5°-7° LESS THAN THE DS OPENING. FOR USE ON DOORS OPENING BACK-TO-BACK, AGAINST A WALL OR OBSTRUCTION.

100 ADJUSTMENTS:

HOLD-OPEN TENSION ADJUSTMENT (HOLD-OPEN UNIT ONLY) - USING A 1/8" BALL END ALLEN WRENCH, TURN SCREW SHOWN IN BOTTOM OF CHANNEL CLOCKWISE TO INCREASE HOLD-OPEN TENSION AND COUNTERCLOCKWISE TO DECREASE HOLD-OPEN TENSION.

FRICTION TENSION ADJUSTMENT (FRICTION UNIT ONLY) - USING A 1/8" ALLEN WRENCH, HOLD SCREW SHOWN IN PLACE WHILE USING A 7/16" WRENCH TO TURN JAMB NUT COUNTERCLOCKWISE UNTIL LOOSE. TURN SCREW CLOCKWISE TO INCREASE FRICTION TENSION AND TURN COUNTERCLOCKWISE TO DECREASE THE FRICTION TENSION. WHILE HOLDING THE SCREW IN PLACE, TURN THE JAMB NUT CLOCKWISE UNTIL TIGHT.

DOOR THICKNESS	HINGE TYPE & STYLE	MOUNTING GROUP
1 3/4" (44mm)	4" WIDE BUTT	2
	4 1/2" WIDE BUTT	2
	5" WIDE BUTT	1
	3/4" OFFSET PIVOT	2
	4" SWINGCLEAR	1
	4 1/2" SWINGCLEAR	2
	5" SWINGCLEAR	2
2" (51mm)	CENTERHUNG PIVOT	3
	4 1/2" WIDE BUTT	2
	5" WIDE BUTT	1
	3/4" OFFSET PIVOT	1
	4 1/2" SWINGCLEAR	2
	5" SWINGCLEAR	2
	SOSS 220	2
2 1/4" (57mm)	CENTERHUNG PIVOT	3
	4 1/2" WIDE BUTT	2
	5" WIDE BUTT	1
	3/4" OFFSET PIVOT	1
	4 1/2" SWINGCLEAR	1
	5" SWINGCLEAR	1
	SOSS 220	2
	CENTERHUNG PIVOT	3

SCREW DETAILS			
	QTY	WOOD	METAL
DOOR	2	#18 x 3" PPHWS	5/16"-18 x 1 1/2" PPHMS
JAMB	4	#14 x 1 1/2" FPHSMS	1/4"-20 x 3/4" FPHMS

100 SERIES CONCEALED OVERHEAD HOLDER INSTALLATION TEMPLATE



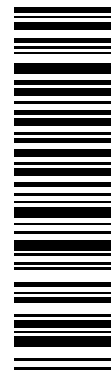
DIMENSIONS IN () ARE IN MILLIMETERS

TEMPLATE NUMBER: INST.100.PG1_4

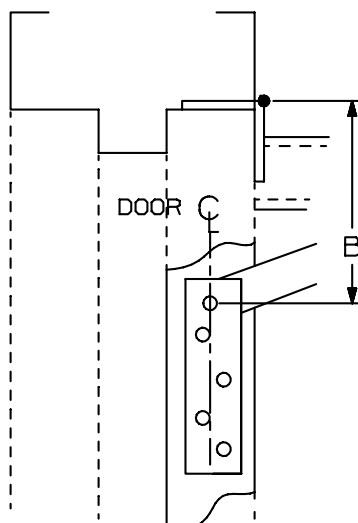
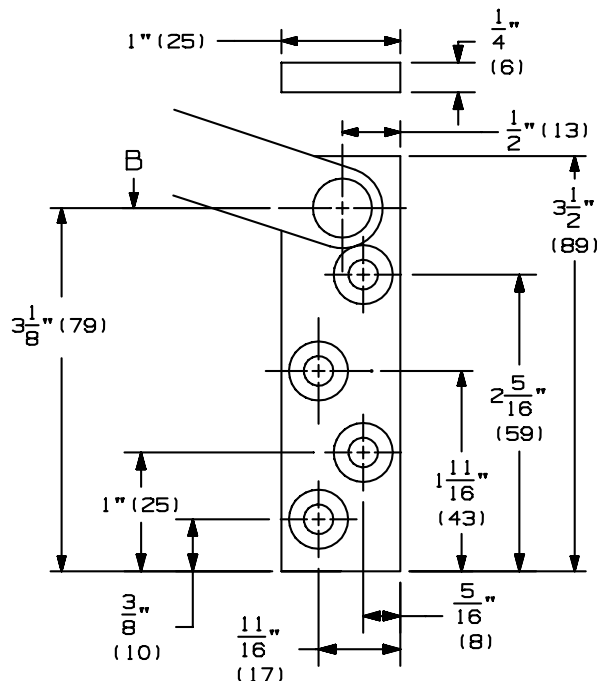
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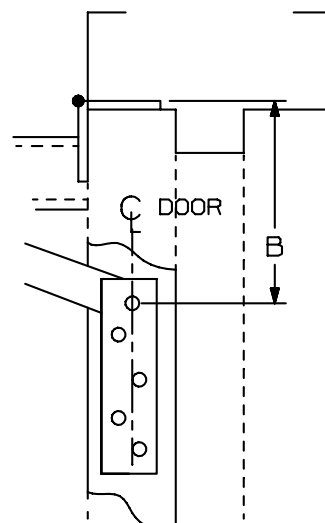
④



2. A. LOCATE "B" DIMENSION ON THE FRAME. NOTE THAT THE "B" DIMENSION IS MEASURED FROM THE CENTERLINE OF THE HINGE AS SHOWN.
- B. MORTISE FOR THE JAMB BRACKET AS SHOWN. REFER TO LEFT AND RIGHT HAND PLAN VIEWS FOR APPROPRIATE HOLE PATTERN.
- C. FOR METAL FRAMES, USE A #7 DRILL AND A 1/4"-20 TAP IN 4 PLACES. FOR WOOD FRAMES, DRILL 3/16" PILOT HOLE IN 4 PLACES.



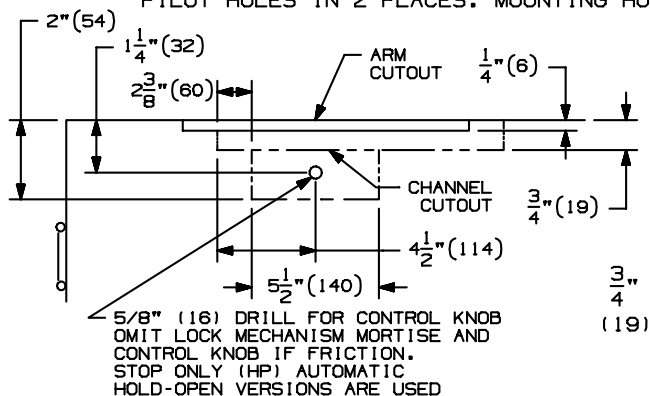
LEFT HAND DOOR
(PLAN VIEW)



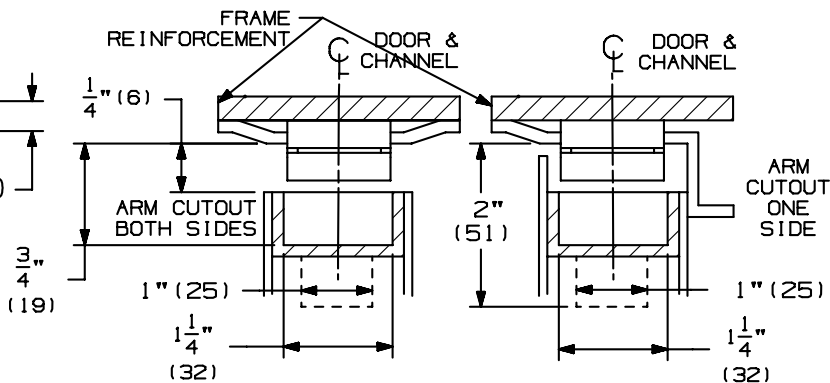
RIGHT HAND DOOR
(PLAN VIEW)

REFER TO ILLUSTRATION BELOW AND ON SHT 1 FOR THE FOLLOWING NOTES:

3. A. LOCATE "A" AND "D" DIMENSIONS ON THE CENTERLINE OF THE DOOR. NOTE THAT THE "A" DIMENSION IS MEASURED FROM THE CENTERLINE OF THE HINGE AS SHOWN.
- B. MORTISE FOR THE CHANNEL AS SHOWN IF REQUIRED. FOR 100H HOLD-OPEN VERSION, MORTISE FOR HOLD-OPEN LOCK MECHANISM AND DRILL 5/8" (16) DIAMETER HOLE FOR CONTROL KNOB AS SHOWN. (WHEN HP HOLD-OPEN, F FRICTION OR S STOP UNIT IS SUPPLIED, ADDITIONAL MORTISE FOR HOLD-OPEN MECHANISM AND CONTROL KNOB ARE NOT REQUIRED.)
- C. LOCATE "C" AND "E" DIMENSIONS ON THE TOP OF THE DOOR. NOTE THAT THE "C" DIMENSION IS MEASURED FROM THE CENTERLINE OF THE HINGE AS SHOWN.
- D. MORTISE FOR ARM CUTOUT AS SHOWN.
- E. FOR METAL DOORS, USE A F DRILL AND 5/16-18 TAP IN 2 PLACES. FOR WOOD DOORS, DRILL 1/4" PILOT HOLES IN 2 PLACES. MOUNTING HOLES SHOULD BE PREPARED IN THE FIELD.



FRONT ELEVATION



CROSS SECTION IN CLOSED POSITION

4. A. INSTALL THE CHANNEL IN THE DOOR WITH THE SHOCK SPRING TOWARDS THE HINGE EDGE OF DOOR.
- B. INSTALL JAMB BRACKET IN FRAME.
- C. FOR 100H HOLD-OPEN VERSION ONLY, EPOXY (NOT PROVIDED) EYELET IN 5/8" (16) HOLE.
- D. FOR 100H HOLD-OPEN VERSION ONLY, PLACE SERRATED KNOB AND KNOB SPACER OVER CAP SCREW AS SHOWN. THREAD ASSEMBLY THROUGH 5/8" (16) HOLE IN DOOR ONTO LOCK.

100 SERIES CONCEALED OVERHEAD HOLDER INSTALLATION TEMPLATE

IR GLYNN-JOHNSON®

DIMENSIONS IN () ARE IN MILLIMETERS

TEMPLATE
NUMBER: INST. 100.PG2_4

DATE:
04-15-04

MOUNTING GROUPS 1, 2 & 3
100 SERIES CONCEALED OVERHEAD STOP & HOLDER

CAUTION: "A", "B", & "C" DIMENSIONS ARE MEASURED FROM THE CENTERLINE OF PIVOT, NOT EDGE OF DOOR

DEGREE	85 HO			90 HO			95 HO			100 HO			105 HO			110 HO		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
DIM. DOOR OPENING																		
IN. 18-23 #1	2 5/16	3 7/16	0	14	2 1/16	3 3/16	0	14	2 1/8	3 1/16	3 1/16	1 1/2	15 1/2	3 1/4	3 1/2	1	15 1/2	3 1/4
IN. 457-584 #1	59	87	0	356	52	81	0	349	48	76	0	349	-	-	-	-	-	-
IN. 23 1/16-27 #1	4 1/4	4 1/2	2	15 1/2	3 15/16	4 1/8	1 3/4	15 1/2	3 11/16	3 11/16	1 1/4	1 1/4	15 1/2	3 1/4	3 1/2	1	15 1/2	3 1/4
IN. 585-686 #1	108	114	51	394	100	105	44	394	84	100	38	384	87	94	88	25	394	305
IN. 27 1/16-33 7 15/16	4 1/4	5 5/8	4 1/4	17 7/8	7 9/16	5 1/4	3 7/8	17 7/8	7 1/4	4 15/16	3 9/16	3 1/8	18	6 11/16	4 7/16	2 15/16	17 7/8	18
IN. 687-838	202	143	108	454	192	133	98	454	184	125	90	454	176	117	113	75	454	425
IN. 33 1/16-39 12 1/8	6 5/8	5 1/4	5 1/4	22	11 11/16	6 1/8	4 3/4	22 1/8	11 5/16	5 13/16	4 7/16	22	11	5 7/16	5 1/8	3 5/8	22 1/4	17 3/4
IN. 839-991	308	168	133	559	297	156	121	562	287	148	113	559	279	138	130	92	565	508
IN. 39 1/16-45 18	7 7/16	7 7/16	7 7/16	28 1/8	17 7/8	6 1/2	28 1/8	17 7/8	17	7 7/16	6 1/16	28 1/8	16 3/16	6 9/16	5 1/16	28 1/4	15 7/8	28 1/4
IN. 992-1143	457	214	179	714	443	200	165	714	432	189	154	714	421	178	140	129	718	502
IN. 45 1/16-54 24	9 11/16	8 5/16	8 5/16	34 1/8	23 3/8	9	7 5/8	34 1/8	22 3/4	8 1/2	7 1/8	34 1/4	21 7/8	7 9/16	6 1/16	34 1/4	21 1/2	34 1/4
IN. 1144-1372	810	248	211	887	584	229	184	887	578	216	181	884	587	202	184	154	870	533
IN. 18-23 #1	2 9/16	3 11/16	0	14 1/2	2 5/16	3 7/16	0	14	2 1/16	3 3/16	0	13 3/4	-	-	-	-	-	14 3/8
IN. 457-584 #1	85	94	0	368	59	87	0	356	52	81	0	349	-	-	-	-	-	385
IN. 23 1/16-27 #1	4 7/16	4 5/8	2	15 3/4	4 1/8	4 3/8	1 3/4	15 3/4	3 7/8	4 1/16	1 1/2	15 3/4	3 11/16	3 1/2	1	15 3/4	15 1/2	12
IN. 585-686 #1	113	117	51	400	105	111	44	400	98	103	38	400	94	89	94	25	400	305
IN. 27 1/16-33 8 1/8	5 13/16	4 7/16	4 7/16	17 7/8	7 3/4	5 7/16	4 1/16	17 7/8	7 7/16	5 1/8	3 3/4	17 7/8	7 1/8	4 13/16	3 5/16	18	6 11/16	16 3/4
IN. 687-838	206	148	113	454	197	138	103	454	189	130	95	454	181	122	84	78	457	425
IN. 33 1/16-39 12 5/16	6 13/16	5 7/16	5 7/16	22	11 7/8	6 5/16	4 15/16	22 1/8	11 1/2	6	4 5/8	22	11 3/16	5 11/16	4 3/16	3 7/8	22 1/8	20
IN. 839-991	313	173	138	559	302	160	125	562	292	152	117	559	284	144	106	98	562	508
IN. 39 1/16-45 18 1/4	8 11/16	7 5/16	7 5/16	28 1/8	17 5/8	6 3/4	28	17 1/8	17 1/8	7 5/8	6 1/4	28	16 3/4	6 3/4	5 1/4	28 1/4	16	28 1/8
IN. 992-1143	464	221	186	714	448	206	171	711	435	194	159	711	425	183	144	133	718	502
IN. 45 1/16-54 24 1/4	9 13/16	8 7/16	8 7/16	34 1/4	23 1/2	9 1/4	7 7/8	34 1/4	23	8 9/16	7 3/16	34 1/4	22 1/2	8 1/8	6 5/8	34 1/4	21 11/16	34 1/4
IN. 1144-1372	876	249	214	870	597	235	200	864	584	217	183	870	572	206	168	157	870	533
IN. 18-23 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14 3/8
IN. 457-584 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	385
IN. 23 1/16-27 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15 1/2
IN. 585-686 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	384
IN. 33 1/16-39 12 1/8	6 5/8	5 1/4	5 1/4	17 3/4	8 1/2	6 1/8	4 3/4	17 7/8	8 1/8	5 7/8	4 1/2	17 3/4	7 3/16	5 1/2	4	18	7 5/16	16 3/4
IN. 839-991	225	168	133	451	216	156	121	454	206	147	114	451	198	140	102	95	457	425
IN. 39 1/16-45 13 3/16	7 5/8	7 5/8	7 5/8	22 1/8	12 1/4	7 1/16	5 11/16	22 1/8	12 1/4	6 11/16	5 5/16	22 1/8	11 7/8	6 3/8	4 7/8	6	11 5/16	16 3/4
IN. 992-1143	335	194	159	582	322	179	144	582	311	170	135	582	302	162	124	114	585	451
IN. 45 1/16-51 19 1/16	9 7/16	8 7/16	8 7/16	28 1/8	18 7/16	8 7/8	7 1/2	28 1/8	17 15/16	8 1/4	6 7/8	28 1/4	17 7/16	7 13/16	6 5/16	28 1/4	16 3/4	28 3/8
IN. 1144-1295	484	240	205	714	468	225	191	714	456	210	175	718	443	198	160	151	718	502
IN. 51 1/16-57 25 1/16	10 3/4	9 3/8	9 3/8	34 1/8	24 3/8	10	8 5/8	34 1/8	23 3/4	9 3/8	8	34 1/8	23 1/4	8 13/16	7 5/16	6 15/16	22 3/8	34 3/8
IN. 1298-1448	637	273	238	867	619	254	219	867	603	238	203	867	591	224	186	176	870	533

FOR DEAD STOP ADD 9/16" (14) TO THE "A" DIMENSION
FOR SE STOPS USE HOLD-OPEN MOUNTING DIMENSIONS
HO=HOLD-OPEN FOR HOLDERS, OPENING FOR STOPS
I=ARM LENGTH FROM PIVOT CENTERLINE TO PIVOT CENTERLINE
(FOR REFERENCE ONLY)

* NOT TO BE USED WITH OFFSET PIVOTS
† NOT TO BE USED WITH SWINGCLEAR HINGES

100 SERIES CONCEALED OVERHEAD
HOLDER INSTALLATION TEMPLATE

