A Perfect Crown Molding with your Starrett CP505A-12

1) Measure the corner angle near the ceiling. Note the Miter Cut value from the dial (inner scale).
2) Measure the spring angle of your stock (see below right) with the protractor on your CP505A-12.
3) Refer to the compound cut conversion table on your tool (or the back of this page). Locate the row with the same "Miter Cut" value as your corner measurement.
4) Note the "Miter Angle" and "Bevel Angle" from the row that corresponds to the 38° or 45° spring angle, as determined in step 2.
5) Refer to the table below and set the miter angle and bevel angle on your compound miter saw, position your work piece with reference to the blade and fence, as indicated. Then, cut your first work piece.
6) Reset the saw and position your second work piece as indicated below. Then, cut your second work piece.

The two work pieces should align perfectly for your crown molding.

Settings and Layout to Cut Crown Molding with a Compound Miter Saw

Inside Corner	
Left Piece	**Right Piece**
Miter Swing: **Right**	Miter Swing: **Left**
Bevel Swing: **Left**	Bevel Swing: **Left**
Work Piece Location: **Left** of Blade	Work Piece Location: **Left** of Blade
Molding Edge Against Fence: **Top**	Molding Edge Against Fence: **Bottom**

Outside Corner	
Left Piece	**Right Piece**
Miter Swing: **Left**	Miter Swing: **Right**
Bevel Swing: **Right**	Bevel Swing: **Right**
Work Piece Location: **Right** of Blade	Work Piece Location: **Right** of Blade
Molding Edge Against Fence: **Bottom**	Molding Edge Against Fence: **Top**

Compound Cut Conversion Table

Miter Cut	38° Crown Miter Angle	38° Crown Bevil Angle	45° Crown Miter Angle	45° Crown Bevil Angle
1	0.6	0.8	0.7	0.7
2	1.2	1.6	1.4	1.4
3	1.9	2.4	2.1	2.1
4	2.5	3.2	2.8	2.8
5	3.1	3.9	3.5	3.5
6	3.7	4.7	4.3	4.2
7	4.3	5.5	5.0	4.9
8	5.0	6.3	5.7	5.7
9	5.6	7.1	6.4	6.4
10	6.2	7.9	7.1	7.1
11	6.8	8.7	7.8	7.8
12	7.5	9.4	8.6	8.5
13	8.1	10.2	9.3	9.2
14	8.7	11.0	10.0	9.9
15	9.4	11.8	10.7	10.6
16	10.0	12.5	11.5	11.2
17	10.7	13.3	12.2	11.9
18	11.3	14.1	12.9	12.6
19	12.0	14.9	13.7	13.3
20	12.6	15.6	14.4	14.0
21	13.3	16.4	15.2	14.7
22	14.0	17.2	15.9	15.4
23	14.7	17.9	16.7	16.0
24	15.3	18.7	17.5	16.7
25	16.0	19.5	18.3	17.4
26	16.7	20.2	19.0	18.1
27	17.4	21.0	19.8	18.7
28	18.1	21.7	20.6	19.4
29	18.8	22.5	21.4	20.1
30	19.6	23.2	22.2	20.7

Miter Cut	38° Crown Miter Angle	38° Crown Bevil Angle	45° Crown Miter Angle	45° Crown Bevil Angle
31	20.3	23.9	23.0	21.4
32	21.0	24.7	23.8	22.0
33	21.8	25.4	24.7	22.7
34	22.6	26.2	25.5	23.3
35	23.3	26.9	26.3	23.9
36	24.1	27.6	27.2	24.6
37	24.9	28.3	28.1	25.2
38	25.7	29.0	28.9	25.8
39	26.5	29.7	29.8	26.4
40	27.3	30.4	30.7	27.0
41	28.2	31.1	31.6	27.6
42	29.0	31.8	32.5	28.2
43	29.9	32.5	33.4	28.8
44	30.7	33.2	34.3	29.4
45	31.8	33.9	35.3	30.0
46	32.5	34.5	36.2	30.6
47	33.4	35.2	37.2	31.1
48	34.4	35.9	38.1	31.7
49	35.3	36.5	39.1	32.3
50	36.3	37.1	40.1	32.8
51	37.2	37.8	41.1	33.3
52	38.2	38.4	42.2	33.9
53	39.3	39.0	43.2	34.4
54	40.3	39.6	44.2	34.9
55	41.3	40.2	45.3	35.4
56	42.4	40.8	46.4	35.9
57	43.5	41.4	47.4	36.4
58	44.6	41.9	48.5	36.8
59	45.7	42.5	49.6	37.3
60	46.8	43.0	50.8	37.8

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