

### MEASURING TORSION SPRINGS

**Need:**


1 Wire diameter (in.)	2 Inside diameter (in.)
3 Spring length (in.)	4 Direction of wind

**1 Finding wire diameter**  
Use calipers or spring/wire gauge  
If not available, use a tape measure:  
Measure 10 or 20 coils to the nearest 1/16". Refer to the spring wire chart. Divide total inches by however many coils measured to find approximate wire size.


**2 Inside diameter (in.)**  
Measure the springs inside diameter to the nearest 1/16"  
If you know the manufacturer, refer to the manufacturer I.D. chart  
Measure the outside diameter and subtract the wire size twice.  
Look for a part number on the cone:  
134 or 175 = 1 3/4" ID  
258 or 263 = 2 5/8" ID

**3 Spring length (in.)**  
Measure the spring length while unwound  
If broken, measure total coils and multiple by the wire size.

**4 Direction of Wind**



Left Wound



Right Wound

### MEASURING EXTENSION SPRINGS

**1** Spring length  
Amount of stretch  
Door weight to be pulled  
End types  
  
**E.g. 25 x 42 x 120 double coil loops**

**2** Wire size  
Inside or outside diameter  
Length of spring  
End types  
  
**E.g. .177 x 1 9/32" ID x 25"**

**3** Door weight  
Door weight  
  
**E.g. 7' high x 150 lbs**

SPRING WIRE CHART		
LENGTH @ 10 COILS	LENGTH @ 20 COILS	WIRE SIZE
1.25"	2.5"	0.1250
1.375"	2.75"	0.1350
1.4375"	2.875"	0.1420
1.5"	3"	0.1483
1.5625"	3.125"	0.1562
1.625"	3.25"	0.1620
1.6875"	3.375"	0.1700
1.75"	3.5"	0.1770
1.875"	3.75"	0.1875
1.9375"	3.875"	0.1920
2"	4"	0.2000
2.0625"	4.125"	0.2070
2.1875"	4.375"	0.2187
2.25"	4.5"	0.2253
2.3125"	4.625"	0.2343
2.4375"	4.875"	0.2437
2.5"	5"	0.2500
2.625"	5.25"	0.2625
2.75"	5.5"	0.2730
2.8125"	5.625"	0.2830
2.875"	5.75"	0.2890
2.9375"	5.875"	0.2950
3.0625"	6.125"	0.3065
3.125"	6.25"	0.3125
3.1875"	6.375"	0.3195
3.3125"	6.625"	0.3310
3.4375"	6.875"	0.3437
3.625"	7.25"	0.3625
3.75"	7.5"	0.3750
3.9375"	7.875"	0.3938
4.0625"	8.125"	0.4062
4.21875"	8.4375"	0.4218
4.3125"	8.625"	0.4305
4.375"	8.75"	0.4375
4.53125"	9.0625"	0.4531
4.625"	9.25"	0.4615
4.6875"	9.375"	0.4687
4.875"	9.75"	0.4900
5"	10"	0.5000
5.3125"	10.625"	0.5312
5.625"	11.25"	0.5625
6.25"	12.5"	0.6250

MANUFACTURER I.D. CHART									
I.D.	BARCOL CRAWFOR D	MCKEE	OVERHEAD	RAYNOR	ROWE	WAGNER	COMMON	AVAILABLE CONES	
1 19/32"		•							
1 3/4"		•	•		•		•	X	
1 13/16"	•			•					
2"		•	•				•	X	
2 1/4"				•	•				
2 7/16"			•						
2 1/2"						•			
2 5/8"	•	•					•	X	
2 3/4"					•	•			
2 25/32"		•							
3"			•						
3 3/8"			•					X	
3 1/2"				•					
3 3/4"							•	X	
3 25/32"		•							
4						•			
4 3/8"			•						
4 1/2"	•	•							
4 7/8"					•				
5 1/4"							•	X	
5 1/2"				•					
5 3/4"	•								
5 7/8"			•					X	
6"		•	•				•	X	
7 5/8"			•						

## Garage Door Spring Reference Sheet

TORSION SPRING		EXTENSION SPRING	
0.1483	TAN	40#	BLUE
0.1620	GREEN	50#	RED
0.1770	GOLD	60#	BROWN
0.1875	BLUE	70#	ORANGE
0.1920	ORANGE	80#	GOLD
0.2000	LT. BLUE	90#	LT. BLUE
0.2070	YELLOW	100#	TAN
0.2187	WHITE	110#	WHITE
0.2253	RED	120#	GREEN
0.2343	BROWN	130#	YELLOW
0.2437	GREEN	140#	BLUE
0.2500	GOLD	150#	RED
0.2625	BLUE	160#	BROWN
0.2730	ORANGE	170#	ORANGE
0.2830	LT. BLUE	180#	GOLD
0.2890	YELLOW	190#	LT. BLUE
0.2950	WHITE	200#	TAN
0.3065	BROWN	210#	WHITE
0.3125	TAN	220#	GREEN
0.3195	GREEN	230#	YELLOW
0.3310	GOLD	240#	BLUE
0.3437	BLUE	250#	RED
0.3625	ORANGE	260#	BROWN
0.3750	LT. BLUE	270#	ORANGE
0.3938	YELLOW	280#	GOLD
0.4062	WHITE	290#	LT. BLUE
0.4218	RED	300#	TAN
0.4305	BROWN		
0.4375	TAN		
0.4531	GREEN		
0.4615	GOLD		
0.4687	BLUE		
0.4900	LT. BLUE		
0.5000	YELLOW		
0.5312	WHITE		
0.5625	RED		



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