

# GARAGE DOOR SPRING REFERENCE SHEET

## 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.

### 3 Spring length (in.)

Measure the spring length while unwound

If broken, measure total coils and multiple by the 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

### 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<br>@ 10<br>COILS | LENGTH<br>@ 20<br>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" |        |         |   |       |          |        |      |        |        | X               |
| 2"       |        |         |   |       |          |        |      |        |        |                 |
| 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"   |        |         |   |       |          |        |      |        |        |                 |

| 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      |                  |          |

DEVANCO CANADA

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or call toll free at 855-931-3334