



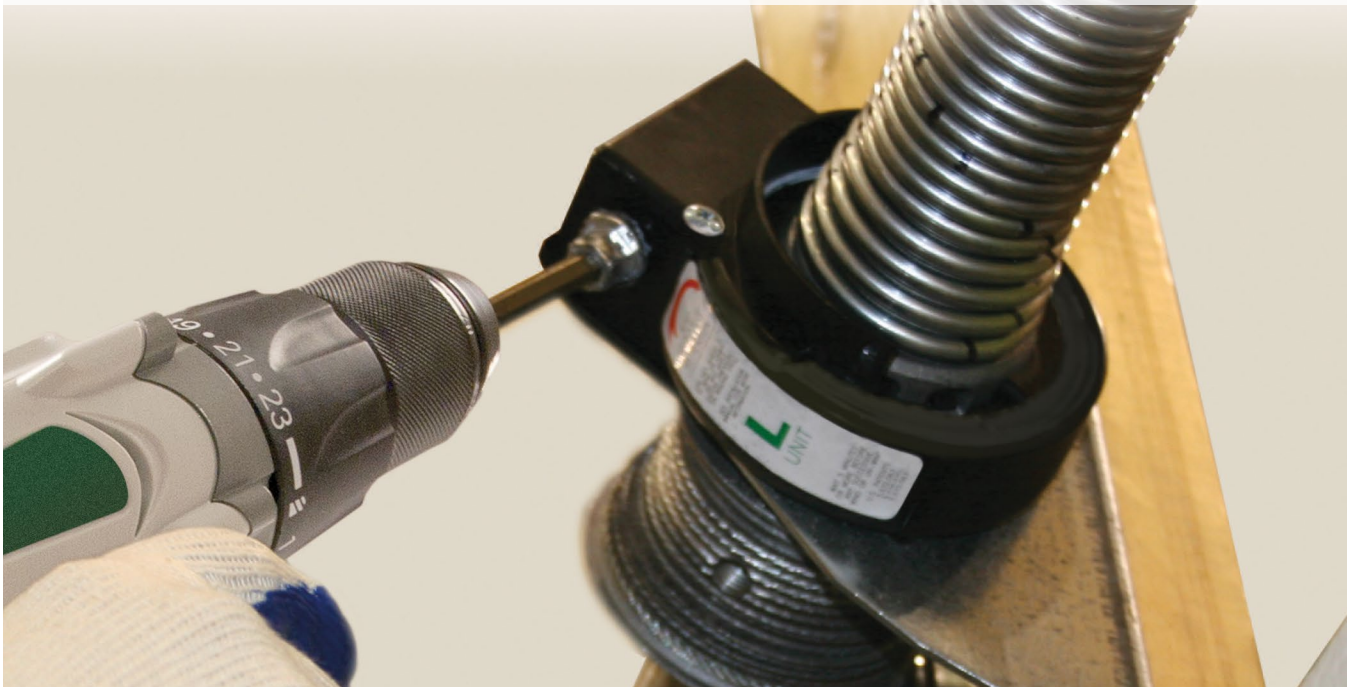
GARAGE DOORS

AMERICAN MADE FOR OVER 50 YEARS

RESIDENTIAL GARAGE DOOR

REPLACEMENT SPRING

INFORMATION



EZ-SET® TORSION SPRINGS



STANDARD TORSION SPRINGS



EXTENSION SPRINGS



IMPROPER INSTALLATION OR DOOR POSITION CAN RESULT IN SERIOUS INJURY OR DEATH. READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE YOU BEGIN WORK.

Wear safety goggles. Unplug power door operator and remove the opener travel arm from the door **FIRST**. Do not remove more than one part at a time. Do not attempt to raise or lower the door without all components installed securely. This hardware is intended for residential garage doors only. Springs and attached hardware are under extreme tension at all times. All tension must be released **SAFELY** from the springs before any work is performed on the springs, door sections or hardware. If you do not completely understand the installation instructions or are unsure if the replacement component matches the part being replaced – contact a professional installer.

TORSION SPRINGS CAN BE VERY DANGEROUS IF THEY ARE IMPROPERLY INSTALLED OR MISHANDLED. DO NOT attempt to install them yourself unless 1) you have the proper tools and reasonable mechanical aptitude or experience and 2) you follow enclosed instructions very carefully. Professional installation is recommended.

HOW TO SELECT YOUR SPRING

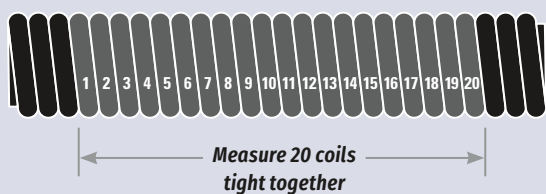
OPTION

1

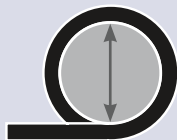
By Measuring Dimension of Old Spring

Note: Not applicable for extension springs.

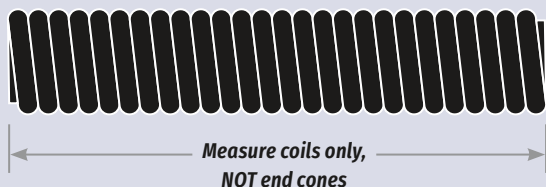
Figure Wire Diameter



Measure Inside Diameter



Measure Coil Length



Determine Wind Direction

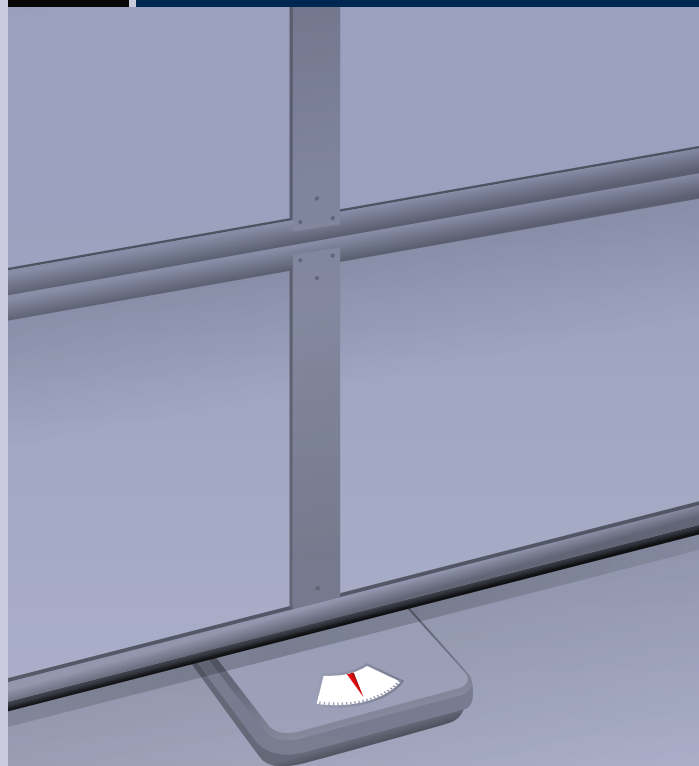


Looking at the spring end straight-on

OPTION

2

By Height and Weight of Door



Weigh Unsprung Door with a Common Bathroom Scale(s)

Be sure spring tension has been released. See pages 9–11 for spring removal.

Two people or more will be required to raise the door to allow the placement of a bathroom scale(s) under the center of the door. Make sure to bend at the knees when lifting door and feet are clear of door travel.

For doors weighing more than one scale registers, two scales may be used by adding totals together.

OPTION

3

By Model and Size of Door



GARAGE DOORS

If it is an Ideal Door®
and the model number is known,
then use the grid shown on
the spring-specific pages.

IMPORTANT NOTE: **Left and Right Torsion Springs May Not Match**

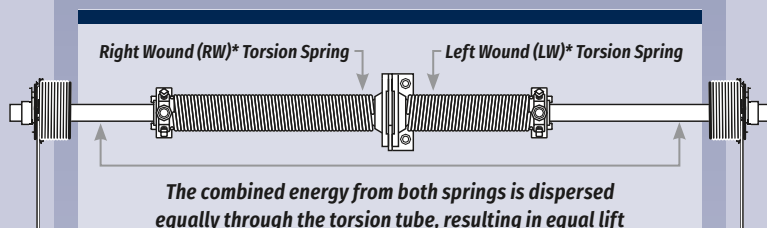


Illustration pictured inside garage looking out

EZ-SET® torsion and standard torsion systems use a torsion tube that disperses equal lifting power to both sides evenly. The energy from the wound spring(s) is combined and transferred to the torsion tube. The torsion tube, however, doesn't know the length of the left or right springs, or if there are one or two springs (nor does it need to). It responds only to the amount of energy applied to the tube that, in turn, lifts both sides equally.

Many different combinations of springs are needed for the exact height and weight of every possible door. Therefore, *it is only a coincidence* if both sides have matching springs; it is more likely that *they wouldn't match*. Some doors may have only one spring.

*Standard track radius installation.

FREQUENTLY ASKED QUESTIONS

Q: Should both springs be replaced if only one is broken?

A: Yes. If one spring broke, the other will likely break soon. The amount of work to replace two springs at the same time is a lot less than changing them out at different times.

Q: How important is it to be accurate when determining your replacement spring?

A: It is very important to be accurate. A garage door torsion spring system requires specific spring(s) based on the height and weight of the door. When the door is in the up position, it is important that the spring still has a couple of winds remaining. This ensures that the cables still have a small amount of tension, thus keeping them from falling off the drums. Plus, if your spring is too strong or too weak, it will be very hard to raise and lower the door.

Q: The door has only one torsion spring mounted. What lifts the other side of the door?

A: The energy from winding the spring is transferred to the torsion tube, which disperses equal lifting power to both sides.

Q: Do both springs on the right and left need to be the same?

A: Extension spring systems do need to have the same springs on both sides of the door, but this may not be the case for torsion springs. See the expanded explanation about torsion springs on this page, "IMPORTANT NOTE: Left and Right Torsion Springs May Not Match".

EZ-SET® TORSION SPRINGS

OPTION

1

Select by Measuring Dimension of Old Spring

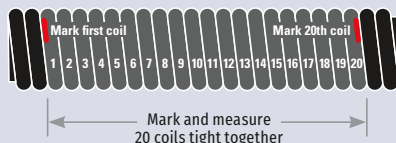
IMPORTANT NOTE:
If replacing one spring, replace
ALL springs on the door.

PLACE FIRST
COIL HERE

MEASURE 20 COILS

1

Figure Wire Diameter



- Count 20 coils. Using a felt marker or similar pen, place a mark at the first and 20th coil for easier reference.
- Measure the 20 coils tight together using the wire diameter gauge to the left. Record your wire diameter below.
- Locate the wire diameter measurement in the chart below to find your spring.

YOUR WIRE DIAMETER: _____

2

Measure Inside Diameter



YOUR INSIDE DIAMETER: _____

3

Measure Coil Length



YOUR COIL LENGTH: _____

4

Determine Wind Direction



YOUR WIND DIRECTION: _____

(3-9/16") .177

(3-7/8") .192

(4-1/8") .207

(4-3/8") .219

(4-1/2") .225

(4-11/16") .234

(4-7/8") .244

(5") .250

SPRING	1 WIRE DIAMETER	2 INSIDE DIAMETER	3 COIL LENGTH	4 WIND DIRECTION	
				LEFT WOUND SKU NUMBER	RIGHT WOUND SKU NUMBER
GOLD A	.177	1 3/4"	28"	431-1472	—
GOLD B	.177	1 3/4"	32"	425-1259	—
GOLD F	.177	1 3/4"	36"	425-1267	—
ORANGE A	.192	1 3/4"	32"	431-1473	425-1276
ORANGE B	.192	1 3/4"	36"	431-1474	431-1477
YELLOW A	.207	1 3/4"	38"	425-1284	425-1295
YELLOW B	.207	1 3/4"	42"	431-1475	425-1301
WHITE A	.219	1 3/4"	42"	425-1223	425-1231
WHITE B	.219	1 3/4"	47"	425-1238	425-1246
RED A	.225	1 3/4"	44"	425-1254	425-1263
RED B	.225	1 3/4"	50"	425-1270	425-1278
BROWN A	.234	1 3/4"	47"	431-1476	425-1286
BROWN B	.234	1 3/4"	53"	425-1294	425-1225
GREEN C	.244	1 3/4"	52"	425-1234	425-1243
GREEN D	.244	1 3/4"	58"	425-1251	425-1257

Highlighted springs are in stock at most stores; all others are special order.

INDUSTRY STANDARD COLOR CODES



Gold

Orange

Yellow

White

Red

Brown

Green

EZ-SET® TORSION SPRINGS

OPTION

2

Select by Height and Weight of Door

Refer to page 2 for door weighing instructions.

IMPORTANT NOTE:

If replacing one spring, replace ALL springs on the door.

7' TALL DOORS	SPRING (LEFT WOUND)	SPRING (RIGHT WOUND)	DOOR HEIGHT	DOOR WEIGHT (LBS.)
	GOLD F (LW)	—	7'	66 – 75
	GOLD B (LW)	—	7'	76 – 83
	GOLD A (LW)	—	7'	84 – 108
	ORANGE A (LW)	—	7'	109 – 133
	YELLOW A (LW)	—	7'	134 – 155
	WHITE A (LW)	—	7'	156 – 170
	RED A (LW)	—	7'	171 – 190
	BROWN A (LW)	—	7'	191 – 211
	GREEN C (LW)	—	7'	212 – 215
	GOLD A (LW)	ORANGE A (RW)	7'	196 – 218
	ORANGE A (LW)	ORANGE A (RW)	7'	219 – 243
	ORANGE A (LW)	YELLOW A (RW)	7'	244 – 267
	YELLOW A (LW)	YELLOW A (RW)	7'	268 – 289
	YELLOW A (LW)	WHITE A (RW)	7'	290 – 311
	WHITE A (LW)	WHITE A (RW)	7'	312 – 326
	WHITE A (LW)	RED A (RW)	7'	327 – 341
	RED A (LW)	RED A (RW)	7'	342 – 361
	RED A (LW)	BROWN A (RW)	7'	362 – 381
	BROWN A (LW)	BROWN A (RW)	7'	382 – 402
	BROWN A (LW)	GREEN C (RW)	7'	403 – 424
	GREEN C (LW)	GREEN C (RW)	7'	425 – 430

Highlighted springs are in stock at most stores; all others are special order.

8' TALL DOORS	SPRING (LEFT WOUND)	SPRING (RIGHT WOUND)	DOOR HEIGHT	DOOR WEIGHT (LBS.)
	GOLD F (LW)	—	8'	75 – 85
	GOLD B (LW)	—	8'	86 – 110
	ORANGE B (LW)	—	8'	111 – 134
	YELLOW B (LW)	—	8'	135 – 158
	WHITE B (LW)	—	8'	159 – 170
	RED B (LW)	—	8'	171 – 192
	BROWN B (LW)	—	8'	193 – 211
	GREEN D (LW)	—	8'	212 – 215
	GOLD B (LW)	ORANGE B (RW)	8'	216 – 223
	ORANGE B (LW)	ORANGE B (RW)	8'	224 – 246
	ORANGE B (LW)	YELLOW B (RW)	8'	247 – 269
	YELLOW B (LW)	YELLOW B (RW)	8'	270 – 293
	YELLOW B (LW)	WHITE B (RW)	8'	294 – 317
	WHITE B (LW)	WHITE B (RW)	8'	318 – 330
	WHITE B (LW)	RED B (RW)	8'	331 – 342
	RED B (LW)	RED B (RW)	8'	343 – 363
	RED B (LW)	BROWN B (RW)	8'	364 – 385
	BROWN B (LW)	BROWN B (RW)	8'	386 – 404
	BROWN B (LW)	GREEN D (RW)	8'	405 – 424
	GREEN D (LW)	GREEN D (RW)	8'	425 – 430

OPTION

3

Select by Model and Size of Stock Door

IMPORTANT NOTE:

If replacing one spring, replace ALL springs on the door.

7' TALL DOORS	SPRING (LEFT WOUND)	SPRING (RIGHT WOUND)	GOOD		BETTER	BEST	
			TRADITIONAL		TRADITIONAL	TRADITIONAL	DESIGNER
			M5ST	M4SV	MDP38	MDP38U	MR1SU / MR1LU
			8' x 7', 9' x 7'	8' x 7'	8' x 7'		
	GOLD A (LW)	—		8' x 7'	8' x 7'		
	ORANGE A (LW)	—		9' x 7'	9' x 7'		
	WHITE A (LW)	—	16' x 7'				
	BROWN A (LW)	—		16' x 7'	16' x 7'		
	YELLOW A (LW)	—				9' x 7'	9' x 7'
	ORANGE A (LW)	ORANGE A (RW)				16' x 7'	
	ORANGE A (LW)	YELLOW A (RW)					16' x 7'
8' TALL DOORS	ORANGE B (LW)	—		9' x 8'			
	YELLOW B (LW)	—			9' x 8'		
	ORANGE B (LW)	ORANGE B (RW)		16' x 8'	16' x 8'		

Highlighted springs are in stock at most stores; all others are special order.

STANDARD TORSION SPRINGS

OPTION

1

Select by Measuring Dimension of Old Spring

IMPORTANT NOTE:
If replacing one spring, replace
ALL springs on the door.

PLACE FIRST
COIL HERE

1

Figure Wire Diameter

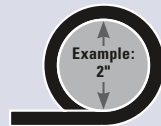


- Count 20 coils. Using a felt marker or similar pen, place a mark at the first and 20th coil for easier reference.
- Measure the 20 coils tight together using the wire diameter gauge to the left. Record your wire diameter below.
- Locate the wire diameter measurement in the chart below to find your spring.

YOUR WIRE DIAMETER: _____

2

Measure Inside Diameter



YOUR INSIDE
DIAMETER: _____

3

Measure Coil Length



YOUR COIL LENGTH: _____

4

Determine Wind Direction



YOUR WIND DIRECTION: _____

SPRING	WIRE DIAMETER	INSIDE DIAMETER	COIL LENGTH	WIND DIRECTION	
				LEFT WOUND SKU NUMBER	RIGHT WOUND SKU NUMBER
#1 ORANGE	.192	2"	16 1/2"	425-1484	431-1492
#2 ORANGE	.192	2"	18 1/2"	425-1489	431-1494
#3 ORANGE	.192	2"	20 1/2"	425-1494	425-1499
#1 YELLOW	.207	2"	19 1/2"	431-1484	425-1452
#2 YELLOW	.207	2"	21 1/2"	431-1490	431-1495
#3 YELLOW	.207	2"	24"	425-1459	425-1467
#1 WHITE	.218	2"	22"	431-1483	431-1493
#2 WHITE	.218	2"	24 1/2"	431-1489	425-1471
#3 WHITE	.218	2"	27"	425-1476	425-1481
#1 RED	.225	2"	23 1/2"	431-1482	425-1486
#2 RED	.225	2"	26"	431-1488	425-1491
#1 BROWN	.234	2"	25"	431-1480	431-1491
#2 BROWN	.234	2"	28"	431-1486	425-1496
#1 GREEN	.243	2"	27 1/2"	431-1481	425-1501
#2 GREEN	.243	2"	30 1/2"	431-1487	425-1458
#1 GOLD	.250	2"	29"	425-1465	425-1470
#2 GOLD	.250	2"	32"	425-1475	425-1480
#3 GOLD	.250	2"	35 1/2"	425-1485	425-1490
#1 BLUE	.262	2"	32"	425-1495	425-1500
#2 BLUE	.262	2"	35 1/2"	431-1485	425-1503
#3 BLUE	.262	2"	39"	425-1463	425-1472
#4 ORANGE	.273	2"	34 1/2"	425-1477	425-1482
#5 ORANGE	.273	2"	38"	425-1487	425-1493
#7 ORANGE	.273	2"	40"	425-1498	425-1502
#9 ORANGE	.273	2.62"	43 1/2"	425-1461	425-1468
#3 LT. BLUE	.283	2.62"	37"	425-1473	425-1478
#5 LT. BLUE	.283	2.62"	47"	425-1483	425-1488
#7 WHITE	.295	2.62"	40"	425-1464	425-1469
#8 WHITE	.295	2.62"	44"	425-1492	425-1497
#8 BROWN	.306	2.62"	55"	425-1448	425-1456
#6 GREEN	.319	2.62"	40 1/2"	425-1474	425-1479

Highlighted springs are in stock at most stores; all others are special order.

INDUSTRY STANDARD COLOR CODES

Orange	Yellow	White	Red	Brown
Green	Gold	Blue	Light Blue	

STANDARD TORSION SPRINGS

OPTION

2

Select by Height and Weight of Door

Refer to page 2 for door weighing instructions.

IMPORTANT NOTE:

If replacing one spring, replace ALL springs on the door.

7' TALL DOORS	SPRING (LEFT WOUND)	SPRING (RIGHT WOUND)	DOOR HEIGHT	DOOR WEIGHT (LBS.)*
	#3 ORANGE (LW)	—	7'	62 – 68
	#2 ORANGE (LW)	—	7'	69 – 77
	#1 ORANGE (LW)	—	7'	78 – 84
	#2 YELLOW (LW)	—	7'	85 – 93
	#1 YELLOW (LW)	—	7'	94 – 105
	#2 RED (LW)	—	7'	106 – 108
	#1 WHITE (LW)	—	7'	109 – 117
	#1 RED (LW)	—	7'	118 – 132
	#1 BROWN (LW)	—	7'	133 – 146
	#1 GREEN (LW)	—	7'	147 – 157
	#1 GOLD (LW)	—	7'	158 – 162
	#2 BLUE (LW)	—	7'	163 – 170
	#1 YELLOW (LW)	#1 ORANGE (RW)	7'	171 – 185
	#1 WHITE (LW)	#1 ORANGE (RW)	7'	186 – 194
	#1 RED (LW)	#1 ORANGE (RW)	7'	195 – 201
	#1 YELLOW (LW)	#1 WHITE (RW)	7'	202 – 209
	#1 BROWN (LW)	#1 ORANGE (RW)	7'	210 – 216
	#1 WHITE (LW)	#1 WHITE (RW)	7'	217 – 225
	#1 RED (LW)	#1 WHITE (RW)	7'	226 – 240
	#1 BROWN (LW)	#1 WHITE (RW)	7'	241 – 250
	#1 RED (LW)	#1 BROWN (RW)	7'	251 – 255
	#1 GREEN (LW)	#1 WHITE (RW)	7'	256 – 265
	#1 BROWN (LW)	#1 BROWN (RW)	7'	266 – 279
	#1 GREEN (LW)	#1 BROWN (RW)	7'	280 – 290
	#1 BROWN (LW)	#1 GOLD (RW)	7'	291 – 293
	#1 GREEN (LW)	#1 GREEN (RW)	7'	294 – 304
	#1 GREEN (LW)	#1 GOLD (RW)	7'	305 – 314
	#1 GOLD (LW)	#1 GOLD (RW)	7'	315 – 327
	#1 GREEN (LW)	#1 BLUE (RW)	7'	328 – 337
	#1 GOLD (LW)	#1 BLUE (RW)	7'	338 – 349
	#1 GREEN (LW)	#4 ORANGE (RW)	7'	350 – 359
	#1 GOLD (LW)	#4 ORANGE (RW)	7'	360 – 366
	#5 ORANGE (LW)	#5 ORANGE (RW)	7'	367 – 375
	#4 ORANGE (LW)	#7 ORANGE (RW)	7'	376 – 383
	#1 BLUE (LW)	#4 ORANGE (RW)	7'	384 – 404
	#4 ORANGE (LW)	#4 ORANGE (RW)	7'	405 – 421
	#9 ORANGE (LW)	#6 GREEN (RW)	7'	418 – 429
	#5 LT. BLUE (LW)	#6 GREEN (RW)	7'	430 – 447

Highlighted springs are in stock at most stores; all others are special order.

8' TALL DOORS	SPRING (LEFT WOUND)	SPRING (RIGHT WOUND)	DOOR HEIGHT	DOOR WEIGHT (LBS.)*
	#3 ORANGE (LW)	—	8'	69 – 76
	#2 ORANGE (LW)	—	8'	77 – 84
	#3 YELLOW (LW)	—	8'	85 – 94
	#2 YELLOW (LW)	—	8'	95 – 97
	#3 WHITE (LW)	—	8'	98 – 108
	#2 WHITE (LW)	—	8'	109 – 117
	#2 RED (LW)	—	8'	118 – 131
	#2 BROWN (LW)	—	8'	132 – 142
	#3 GOLD (LW)	—	8'	143 – 146
	#2 GREEN (LW)	—	8'	147 – 158
	#2 GOLD (LW)	—	8'	159 – 163
	#3 BLUE (LW)	—	8'	164 – 170
	#2 YELLOW (LW)	#2 ORANGE (RW)	8'	171 – 184
	#2 WHITE (LW)	#2 ORANGE (RW)	8'	185 – 189
	#2 YELLOW (LW)	#2 YELLOW (RW)	8'	190 – 202
	#2 WHITE (LW)	#2 YELLOW (RW)	8'	203 – 211
	#2 RED (LW)	#2 YELLOW (RW)	8'	212 – 216
	#2 WHITE (LW)	#2 WHITE (RW)	8'	217 – 225
	#2 BROWN (LW)	#2 YELLOW (RW)	8'	226 – 234
	#2 RED (LW)	#2 RED (RW)	8'	235 – 239
	#2 BROWN (LW)	#2 WHITE (RW)	8'	240 – 248
	#2 BROWN (LW)	#2 RED (RW)	8'	249 – 261
	#2 BROWN (LW)	#2 BROWN (RW)	8'	262 – 263
	#2 GREEN (LW)	#2 RED (RW)	8'	264 – 275
	#2 BROWN (LW)	#2 GREEN (RW)	8'	276 – 288
	#2 BROWN (LW)	#2 GOLD (RW)	8'	289 – 294
	#2 GREEN (LW)	#2 GREEN (RW)	8'	295 – 305
	#2 GREEN (LW)	#2 GOLD (RW)	8'	306 – 316
	#2 GOLD (LW)	#2 GOLD (RW)	8'	317 – 327
	#2 GREEN (LW)	#2 BLUE (RW)	8'	328 – 338
	#2 GOLD (LW)	#2 BLUE (RW)	8'	339 – 351
	#2 GREEN (LW)	#5 ORANGE (RW)	8'	352 – 362
	#2 GOLD (LW)	#5 ORANGE (RW)	8'	363 – 374
	#2 BLUE (LW)	#7 ORANGE (RW)	8'	375 – 385
	#2 BLUE (LW)	#5 ORANGE (RW)	8'	386 – 397
	#5 ORANGE (LW)	#7 ORANGE (RW)	8'	398 – 409
	#5 ORANGE (LW)	#5 ORANGE (RW)	8'	409 – 415
	#8 BROWN (LW)	#7 WHITE (RW)	8'	416 – 419
	#3 LT. BLUE (LW)	#7 WHITE (RW)	8'	420 – 424
	#8 WHITE (LW)	#7 WHITE (RW)	8'	425 – 445

OPTION

3

Select by Model and Size of Stock Door

IMPORTANT NOTE:

If replacing one spring, replace ALL springs on the door.

7' TALL DOORS	SPRING (LEFT WOUND)	SPRING (RIGHT WOUND)	GOOD		BETTER	BEST	
			TRADITIONAL		TRADITIONAL	TRADITIONAL	DESIGNER
			M5ST	M4SV	MDP38	MDP38U	MR1SU / MR1LU
	#2 YELLOW (LW)	—	8' x 7', 9' x 7'				
	#1 YELLOW (LW)	—		8' x 7'			
	#1 WHITE (LW)	—		9' x 7'	8' x 7'		
	#1 RED (LW)	—			9' x 7'		
	#2 BLUE (LW)	—	16' x 7'				
	#1 BROWN (LW)	—				9' x 7'	9' x 7'
	#1 YELLOW (LW)	#1 ORANGE (RW)		16' x 7'			
	#1 YELLOW (LW)	#1 WHITE (RW)			16' x 7'		
	#1 RED (LW)	#1 WHITE (RW)				16' x 7'	
	#1 BROWN (LW)	#1 WHITE (RW)					16' x 7'
8' TALL DOORS	#2 RED (LW)	—		9' x 8'			
	#2 BROWN (LW)	—			9' x 8'		
	#2 BROWN (LW)	#2 YELLOW (RW)		16' x 8'			
	#2 RED (LW)	#2 RED (RW)			16' x 8'		

Highlighted springs are in stock at most stores; all others are special order.

EXTENSION SPRINGS

OPTION

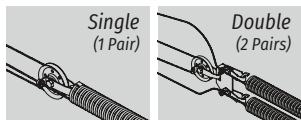
2

Select by Height and Weight of Door

Refer to page 2 for door weighing instructions.

IMPORTANT NOTE:

If replacing one spring, replace ALL springs on the door.



Illustrations are of one side of door.

Note: Single (1 Pair) Springs – Spring # (on **one** side of door) equals weight of door.

Double (2 Pairs) Springs – Spring # for combined springs (on **one** side of door) equals weight of door.

Example: A door weighing 160 lbs. would use:

One (1) 160# (#2 BROWN) spring on **both** sides of door for a total of two (2) 160# springs. – OR –

Two (2) 80# (#1 GOLD) springs on **both** sides of door for a total of four (4) 80# springs.

SKU NUMBER	SPRING (FIRST PAIR)	SPRING (SECOND PAIR)	DOOR HEIGHT	DOOR WEIGHT (LBS.)*
425-1162	#1 RED (50#)	—	7'	46 – 54
425-1169	#1 BROWN (60#)	—	7'	55 – 64
425-1177	#1 ORANGE (70#)	—	7'	65 – 74
431-1408	#1 GOLD (80#)	—	7'	75 – 84
431-1409	#1 LT. BLUE (90#)	—	7'	85 – 94
425-1186	#1 TAN (100#)	—	7'	95 – 104
431-1410	#1 WHITE (110#)	—	7'	105 – 114
431-1412	#1 GREEN (120#)	—	7'	115 – 124
431-1413	#1 YELLOW (130#)	—	7'	125 – 134
431-1414	#1 BLUE (140#)	—	7'	135 – 144
431-1415	#2 RED (150#)	—	7'	145 – 154
431-1416	#2 BROWN (160#)	—	7'	155 – 164
425-1193	#2 ORANGE (170#)	—	7'	165 – 174
425-1199	#2 GOLD (180#)	—	7'	175 – 184
425-1207	#2 LT. BLUE (190#)	—	7'	185 – 194
425-1216	#2 TAN (200#)	—	7'	195 – 204
425-1721	#2 WHITE (210#)	—	7'	205 – 214
REFERENCE SKU NUMBERS ABOVE				
7' TALL DOORS				
REFERENCE SKU NUMBERS ABOVE				
8' TALL DOORS				
REFERENCE SKU NUMBERS ABOVE				

SKU NUMBER	SPRING (FIRST PAIR)	SPRING (SECOND PAIR)	DOOR HEIGHT	DOOR WEIGHT (LBS.)*
425-1439	RED (50#)	—	8'	46 – 54
425-1430	BROWN (60#)	—	8'	55 – 64
425-1722	#3 ORANGE (70#)	—	8'	65 – 74
425-1160	GOLD (80#)	—	8'	75 – 84
425-1168	#4 LT. BLUE (90#)	—	8'	85 – 94
425-1176	#3 TAN (100#)	—	8'	95 – 104
425-1184	#4 WHITE (110#)	—	8'	105 – 114
425-1200	#3 GREEN (120#)	—	8'	115 – 124
425-1209	#2 YELLOW (130#)	—	8'	125 – 134
425-1227	#2 BLUE (140#)	—	8'	135 – 144
425-1235	#3 RED (150#)	—	8'	145 – 154
425-1219	#3 BROWN (160#)	—	8'	155 – 164
425-1226	#4 ORANGE (170#)	—	8'	165 – 174
425-1233	#4 GOLD (180#)	—	8'	175 – 184
425-1240	#3 LT. BLUE (190#)	—	8'	185 – 194
425-1247	#4 TAN (200#)	—	8'	195 – 204
0140330B	#3 WHITE (210#)	—	8'	205 – 214
REFERENCE SKU NUMBERS ABOVE				
8' TALL DOORS				
REFERENCE SKU NUMBERS ABOVE				

Highlighted springs are in stock at most stores; all others are special order.

INDUSTRY STANDARD COLOR CODES

Red	Brown	Orange	Gold	Light Blue	Tan	White	Green	Yellow	Blue
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OPTION

3

Select by Model and Size of Stock Door

IMPORTANT NOTE:

If replacing one spring, replace ALL springs on the door.

SKU NUMBER	SPRING (FIRST PAIR)	SPRING (SECOND PAIR)	M5ST	M4SV	MDP38
431-1408	#1 GOLD (80#)	—	8' x 7'		
431-1409	#1 LT. BLUE (90#)	—	9' x 7'		
425-1186	#1 TAN (100#)	—		8' x 7'	
431-1410	#1 WHITE (110#)	—		9' x 7'	8' x 7'
431-1412	#1 GREEN (120#)	—			9' x 7'
431-1416	#2 BROWN (160#)	—	16' x 7'		
425-1207	#2 LT. BLUE (190#)	—		16' x 7'	
425-1721	#2 WHITE (210#)	—			16' x 7'

SKU NUMBER	SPRING (FIRST PAIR)	SPRING (SECOND PAIR)	M5ST	M4SV	MDP38
425-1209	#2 YELLOW (130#)	—		9' x 8'	
425-1227	#2 BLUE (140#)	—			9' x 8'
425-1184	#4 WHITE (110#)	#4 WHITE (110#)		16' x 8'	
425-1200	#3 GREEN (120#)	#3 GREEN (120#)			16' x 8'

Highlighted springs are in stock at most stores; all others are special order.

SPRING REMOVAL | EXTENSION SPRINGS



EXTENSION SPRINGS CAN BE VERY DANGEROUS AND MAY CAUSE SERIOUS INJURY OR DEATH IF THEY ARE IMPROPERLY INSTALLED OR MISHANDLED. DO NOT ATTEMPT TO REMOVE THEM YOURSELF UNLESS 1) YOU HAVE THE PROPER TOOLS AND REASONABLE MECHANICAL APTITUDE OR EXPERIENCE AND 2) YOU FOLLOW THESE INSTRUCTIONS VERY CAREFULLY. SERIOUS INJURY COULD RESULT IF SPRING TENSION HAS NOT BEEN RELEASED BEFORE OTHER WORK BEGINS.

EXTENSION SPRING

HOW TO REMOVE TENSION FROM REMAINING SPRINGS IN ORDER TO WEIGH DOOR

If the door has two extension springs and only one is broken, always replace both springs. Replacement spring(s) must be identical to each other.

TOOLS NEEDED: (Qty. 2) C-clamps or locking pliers

STEP 1: Disconnect the garage door opener; carefully raise the door to fully open position. Place C-clamps or locking pliers on both sides of the track below the bottom rollers to keep door from falling closed (*Illus. 1*).

STEP 2: With the door in the fully open position the tension will be removed from the springs and the lift cable can be removed from the garage door bottom bracket button (*Illus. 2*). If your door is equipped with a safety containment cable, this also must be removed at this time from the track assembly (*Illus. 3*).

STEP 3: Wood blocks should be placed under the door before closing to prevent finger from being trapped.

STEP 4: Remove the C-clamps from the track and carefully close the door.

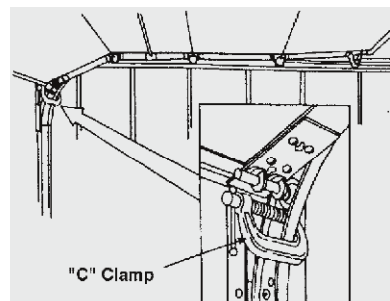
WARNING

USE TWO OR MORE HELPERS TO ASSIST YOU IN LOWERING THE DOOR. SOME LARGE DOORS MIGHT WEIGH AS MUCH AS 500 POUNDS WHEN THE SPRING TENSION IS REMOVED. THE

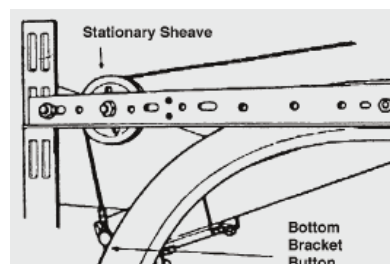
WEIGHT OF THE DOOR WILL NOT BE APPARENT WHEN YOU FIRST BEGIN TO CLOSE THE DOOR. THE DOOR WILL FEEL PROGRESSIVELY HEAVIER AS IT IS LOWERED UNTIL ITS FULL WEIGHT IS REALIZED ABOUT ONE FOOT FROM THE FLOOR. TO AVOID INJURY, KEEP HANDS AND FINGERS CLEAR OF SECTION JOINTS, TRACK AND OTHER DOOR PARTS WHILE THE DOOR IS CLOSING.

STEP 5: Proceed to weigh the door.

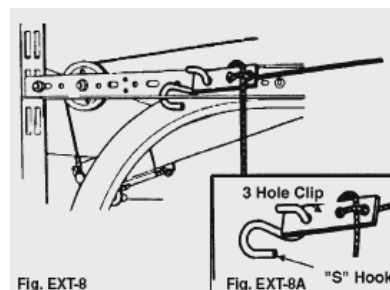
Illus. 1



Illus. 2



Illus. 3



SPRING REMOVAL | EZ-SET® TORSION SPRINGS



TORSION SPRINGS CAN BE VERY DANGEROUS AND MAY CAUSE SERIOUS INJURY OR DEATH IF THEY ARE IMPROPERLY INSTALLED OR MISHANDLED. DO NOT ATTEMPT TO INSTALL THEM YOURSELF UNLESS
1) YOU HAVE THE PROPER TOOLS AND REASONABLE MECHANICAL APTITUDE OR EXPERIENCE AND
2) YOU FOLLOW THESE INSTRUCTIONS VERY CAREFULLY.

EZ-SET® TORSION SPRING

HOW TO REMOVE TENSION FROM REMAINING SPRINGS IN ORDER TO WEIGH DOOR

These instructions apply only for the purpose of removing tension from residential EZ-SET® torsion spring configurations with standard radius (springs mounted to the front header of the garage). If the door has two EZ-SET® torsion springs and only one is broken, always replace both springs.

TOOLS NEEDED: 3/8" medium-duty reversible drill
1/4" insert bit or 7/16" socket wrench
C-clamp or locking pliers

STEP 1: Disconnect the garage door opener, lock the door securely in the DOWN position using the door lock, C-clamp or locking pliers placed directly above a roller. This must be done to prevent the door from prematurely opening which could cause injury.

STEP 2: If the door has only one spring and it is broken, proceed to weigh door.

STEP 3: If there are two springs, the remaining unbroken spring must be unwound and replaced. Remove all tension COMPLETELY from the torsion spring. DO NOT loosen any set screws on the spring winding cones. Insert the 1/4" insert bit in the drill and engage the bit or 7/16" socket wrench on the drive shaft of the winding unit and rotate the drive shaft counterclockwise to remove tension from the spring (*Illus. 1*).

NOTE: High drill RPM may cause lubricant to come out of the winding unit. All tension in the spring is removed when the line (or description) on the spring is in a straight line. There should be no tension on the torsion cables, and the shaft should rotate freely. Proceed to weigh the door.



SPRING REMOVAL | TORSION SPRINGS



TORSION SPRINGS CAN BE VERY DANGEROUS AND MAY CAUSE SERIOUS INJURY OR DEATH IF THEY ARE IMPROPERLY INSTALLED OR MISHANDLED. DO NOT ATTEMPT TO INSTALL THEM YOURSELF UNLESS 1) YOU HAVE THE PROPER TOOLS, REASONABLE MECHANICAL APTITUDE AND EXPERIENCE, AND UPPER ARM STRENGTH, AND 2) YOU FOLLOW THESE INSTRUCTIONS VERY CAREFULLY. PROFESSIONAL INSTALLATION IS RECOMMENDED. DO NOT ATTEMPT TO REMOVE TORSION SPRING TENSION IF THE WOOD MOUNTING PAD CONNECTING THE BRACKET TO THE CENTER OF THE SPRINGS IS SPLIT OR ROTTED, OR IF THE FASTENERS AT THIS POINT ARE LOOSE OR MISSING.

TORSION SPRING

HOW TO REMOVE TENSION FROM REMAINING SPRINGS IN ORDER TO WEIGH DOOR

These instructions apply only for the purpose of removing tension from torsion springs (springs mounted to the front header of the garage). Use only torsion spring winding bars for removing and adjusting standard torsion spring(s). DO NOT USE ANY OTHER TYPE OF TOOL FOR WINDING OR UNWINDING STANDARD TORSION SPRING(S). If the door has two torsion springs and only one is broken, always replace both springs.

TOOLS NEEDED: Adjustable wrench or 3/8" open end wrench
C-clamp or locking pliers
Two solid steel winding bars (available for sale at Menards)

STEP 1: Disconnect the garage door opener; lock the door securely in the down position using the door lock, C-clamp or locking pliers placed directly above a roller. This must be done to prevent the door from prematurely opening which could cause injury.

STEP 2: If the door has only one spring and it is broken, proceed to weigh door. If there are two springs, the remaining unbroken spring must be unwound and replaced. Proceed with Steps 3 through 6.

STEP 3: Remove all tension COMPLETELY from remaining torsion spring. Use a sturdy ladder and stand to the side of the winding bars and insert one winding bar as shown in Illus. 1. Winding bars MUST always be inserted the full depth of the holes in the winding cone and supported (be prepared to handle a large force) before any set screws on the spring winding cones are loosened. Positioning your hand near the end of the winding bar, push up on the winding bar to allow the second winding bar to be inserted then slowly allow the second winding bar to rest against the back of the door, as shown in Illus. 2. Watch that your fingers do not get pinched between the winding bar and back of the door or that the winding bar does not hit any window glass in the top section. If you cannot push the first winding bar up or feel uncomfortable with the force on the bar, stop and contact a qualified door service professional.

STEP 4: Loosen the two set screws on the spring winding cone while firmly holding the lower winding bar and making sure that the lower winding bar is against the back of the door. When set screws are loose, full spring tension will be on the lower winding bar. See Illus. 3.

STEP 5: Push up on the upper winding bar slightly and remove the lower winding bar while holding tight on the upper winding bar. Allow the spring and upper winding bar to slowly rotate downward so that the upper bar rests against the back of the door. This decreases the tension on the spring in 1/4 turn increments. See Illus. 4.

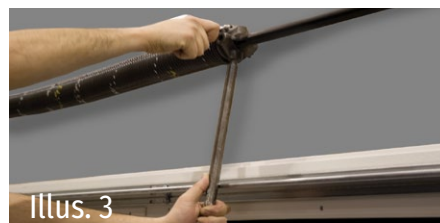
STEP 6: Repeat this process of inserting a winding bar fully in the upper hole position, pushing up slightly, removing the lower winding bar and letting the tension slowly rotate the winding bar until it rests against the back of the door. Repeat this process until all tension is removed from the torsion spring. There should be no tension on the cables, and the shaft should rotate freely. Proceed to weigh the door.



Illus. 1



Illus. 2



Illus. 3



Illus. 4



GARAGE DOORS

AMERICAN MADE FOR OVER 50 YEARS

STANDARD TORSION & EZ-SET® TORSION SPRINGS

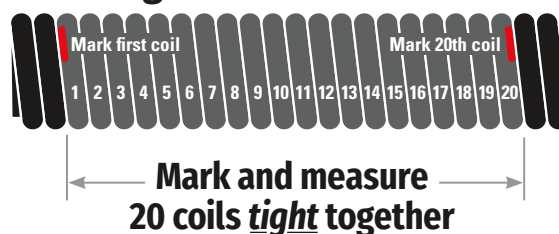
WIRE DIAMETER GUIDE

As seen on pages 4 and 6

PLACE FIRST
COIL HERE



Figure Wire Diameter



- Count 20 coils. Using a felt marker or similar pen, place a mark at the first and 20th coil for easier reference.
- Measure the 20 coils tight together using the wire diameter gauge to the left. Record your wire diameter below.
- Locate the wire diameter measurement in the EZ-SET® torsion spring chart on page 4 or the standard torsion spring chart on page 6 to find your spring.

(3-9/16") .177

(3-7/8") .192

(4-1/8") .207

(4-3/8") .218

(4-1/2") .225

(4-11/16") .234

(4-7/8") .243

(5") .250

(5-1/4") .262

(5-1/2") .275

(5-11/16") .283

(5-7/8") .295

(6-1/8") .306

(6-3/8") .319

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