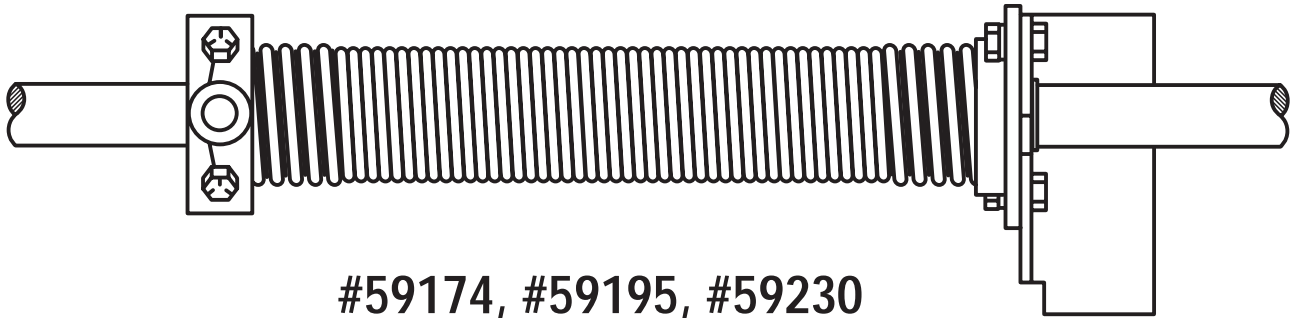


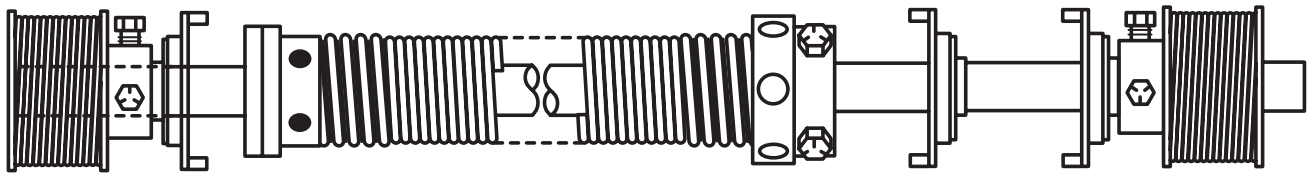


COUNTERBALANCE

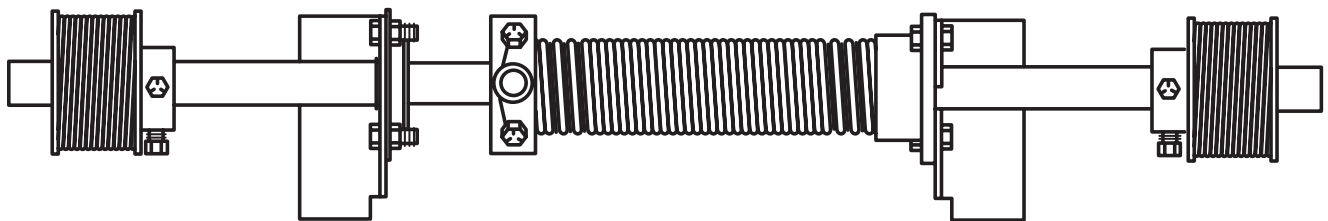
STANDARD PARTS LIST



#59174, #59195, #59230



#59209, #59220



#59292, #59293

STANDARD PARTS

# 59174, #59195, #59230						
Item	Part No.	Description	Required:			
			59174	59195	59195-1	59230
1	59129-1	Standard Cable Drum - L.H. Alum.	•	•		
2	59129-2	Standard Cable Drum - R.H. Alum.	•	•		
3	51037	Counterbalance Shaft	•	•	•	•
4	59076	Spring with Plugs		•	•	
5	51036-2	Anchor Bracket	•	•	•	•
6	59092	Spring Filler Plug		•	•	
7	89186-3	Hex HD Bolt - 5/16" NC x 7/8" LG	•	•	•	•
8	80322-319	Lock Washer - 5/16"	•	•	•	•
9	59157-3	Extended Cable Drum - L.H. Alum.			•	•
10	59157-4	Extended Cable Drum - R.H. Alum.			•	•
11	51065	Spring with Plugs	•			•
12	80352-518	Hex Nut - 5/16" NC	•			•

# 59209, #59220				
Item	Part No.	Description	Required:	
			59209	59220
1	59129-1	Standard Cable Drum - L.H. Alum.	•	
2	59129-2	Standard Cable Drum - R.H. Alum.	•	
3	59157-3	Extended Cable Drum - L.H. Alum.		•
4	59157-4	Extended Cable Drum - R.H. Alum.		•
5	59290	Counterbalance Shaft	•	•
6	59208	Spring with Plugs	•	•
7	59206	Bearing Assembly	•	•

# 59292, #59293				
Item	Part No.	Description	Required:	
			59292	59293
1	59129-1	Standard Alum. Cable Drum - L.H.	•	
2	59129-2	Standard Alum. Cable Drum - R.H.	•	
3	59157-3	Extended Alum. Cable Drum - L.H.		•
4	59157-4	Extended Alum. Cable Drum - R.H.		•
5	59290	Counterbalance Shaft	•	•
6	51065	Spring with Plugs	•	•
7	51036-2	Anchor Bracket	•	•
8	89186-3	Hex Head Bolt - 5/16" x 7/8" LG.	•	•
9	80352-518	Hex Nut - 5/16" NC	•	•
10	80322-319	Lock Washer - 5/16"	•	•
11	59139-8	Support Bracket Assembly	•	•

DETERMINING YOUR SPECIFICATIONS

As the leader in custom door applications, TODCO has built more doors that meet the demand for personalized solutions than anyone in the industry. As a result, all TODCO counterbalances are manufactured to meet a custom door specification. The following guide is to assist you in determining your specific counterbalance part(s) need.

- LOCATE YOUR SERIAL NUMBER ON THE TODCO PLATE.
Locate the serial number (printed on the plate inside the door) for the door that needs a new counterbalance or part(s). Once you have the number, please contact your TODCO representative. They will then be able to determine which counterbalance or part(s) is needed for your specific door.



- IF THE SERIAL NUMBER IS UNAVAILABLE:
If the serial number is unavailable, please determine the following information:

- The inside diameter (I.D.) of the torsion spring.
- The length of the torsion spring.
- The number of coils within 10 inches of the torsion spring.
- The length of the shaft.
- The part number on each of the two (2) cable drums.

■ Using the Counterbalance Part Selector.

Once you have determined your specifications, you can refer to the Counterbalance Part Selector (located on the back page) to decide which counterbalance part you need. To use the chart, begin in column A and work to the right, using the process of elimination. When you reach the fifth column, only one drawing number will match your specs. And you can find that drawing number in the last column.

■ Refer to the drawing number.

Now that you have determined your drawing number, use the corresponding drawing to find the needed part number. Phone or fax your order directly to TODCO.

NOTE: Please specify with or without E-Coat on spring and/or shaft.



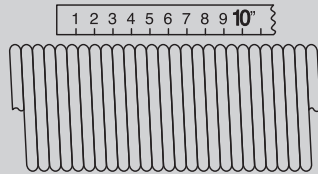
COUNTERBALANCE PARTS

MAINTENANCE GUIDE
 Lubricate counterbalance bearings with TODCO Lube. Spray counterbalance with TODCO Lube to prevent rusting.



REFER TO SAFETY INSTRUCTIONS STICKER ON DOOR AND OWNER'S MANUAL FOR OPTIONS AND FOR OTHER IMPORTANT SAFETY AND MAINTENANCE ITEMS.

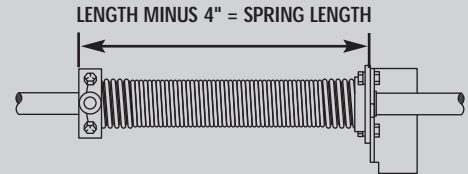
TO DETERMINE SPRING WIRE SIZE
 Position tape measure on the center of the spring coils. Count the number of coils in 10". *NOTE: The spring must be unwound (loose – with no tension) to obtain the proper number of coils.* Determine wire size from list below.



Wire	Size	Number of coils in 10"
8	(.162)	62
7	(.177)	56.5
6	(.192)	52
5	(.207)	48
4	(.225)	44
3	(.244)	41
2	(.262)	38
1	(.283)	35
0	(.306)	65 (measure 20")

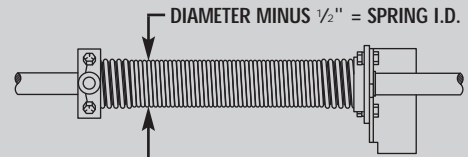
TO DETERMINE SPRING LENGTH
 Measure the total length of the spring and the plugs (castings) as shown below and subtract 4" (plugs account for 4"). This is your spring length.

Note: The spring must be unwound (loose) to obtain the proper spring length.



TO DETERMINE SPRING DIAMETER (I.D.)
 Measure the outside diameter of spring as shown below and subtract 1/2". This is your spring I.D. (inside diameter).

Note: TODCO uses 1 3/4" and 2 1/2" inside diameter springs (right wound) only.



Please order from the TODCO plant nearest you:

Marion, Ohio 43302
 1295 Fairground Road East
 (740) 383-6376

Fresno, California 93725
 4771 East Date Avenue
 (559) 485-9830

For new orders and order inquiries, fax 1-800-24-TODCO (800-248-6326).

TODCO reserves the right to change product specifications at any time without notice.

COUNTERBALANCE PART SELECTOR

A	B	C	D	E	F
SPRING INSIDE DIAMETER	DOOR HEIGHT	TRAILER/TRUCK WIDTH	ADDITIONAL DESCRIPTORS	MAKE OF DOOR*	DRAWING NUMBER
1-3/4"	UP TO 105"	96"	—	W, AC, F, A	59174
1-3/4"	105" TO 120"	96"	—	W, AC, F, A	59230
2-1/2"	UP TO 105"	96"	W/59092 FILLER PLUG	W, AC, F, A	59195
2-1/2"	105" TO 120"	96"	W/59092 FILLER PLUG	W, AC, F, A	59195-1
1-3/4"	UP TO 105"	96" OR 102"	SHALLOW HEADER DOOR	W, AC	59209
1-3/4"	105" TO 120"	96" OR 102"	SHALLOW HEADER DOOR	W, AC	59220
1-3/4"	UP TO 105"	102"	—	W, AC, F, A	59292
1-3/4"	105" TO 120"	102"	—	W, AC, F, A	59293

* KEY: W = WOOD AC = ALUMINUM-CLAD WOOD F = FIBERGLASS A = ALUMINUM



NOT JUST TOUGH...TODCO-TOUGH.

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