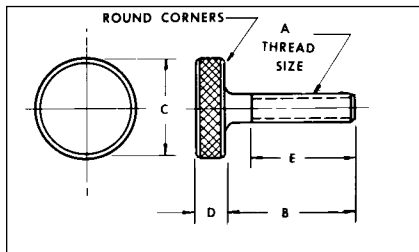
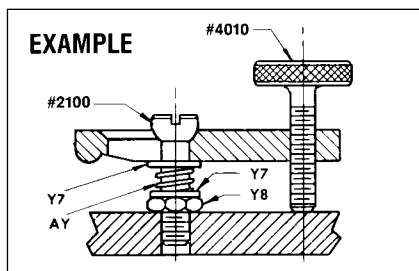
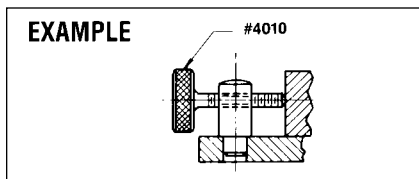


KNURLED THUMB SCREWS

#4-40 To 1/4-20



Material: 303 Stainless Steel

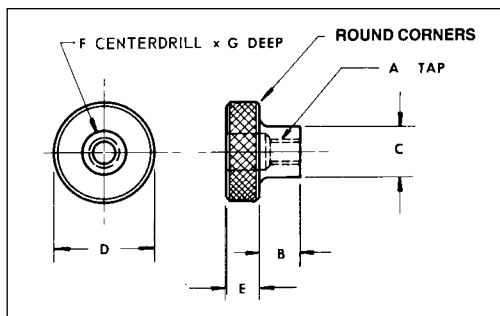


	A	B	C	D	E	Part No.
# 4-40	3/8	1/4	1/8	5/16	4010	
	1/2	1/4	1/2	7/16	4011	
	3/4	1/4	1/2	5/8	4012	
	3/8	3/8	1/8	5/16	4013	
	1/2	3/8	1/8	7/16	4014	
# 6-32	1/2	1/4	1/2	7/16	4015	
	3/4	1/4	1/2	5/8	4016	
	1	1/4	1/2	13/16	4017	
	3/8	3/8	1/8	5/16	4018	
	1/2	3/8	1/8	3/8	4019	
# 8-32	1/2	1/4	1/2	7/16	4020	
	3/4	1/4	1/2	5/8	4021	
	1	1/4	1/2	13/16	4022	
	3/8	3/8	1/8	5/16	4023	
#10-24	1/2			7/16	4025	
	3/4	3/8		5/8	4026	
	1			13/16	4027	
	3/4			5/8	4029	
	1		3/16	13/16	4030	
	1-1/4	1/2		1	4031	
	1-1/2			1-1/4	4032	
	3/4	3/4		5/8	4033	

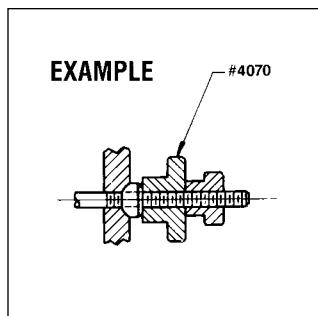
	A	B	C	D	E	Part No.
#10-32	3/8	1/2	3/8	3/16	7/16	4037
		3/4			5/8	4038
		1			13/16	4039
		1-1/4			1	4040
	3/4	1/2	5/8		4041	
	1		13/16		4042	
	1-1/4		1		4043	
	1-1/2		1-1/4		4044	
	3/4	3/4	5/8		4045	
	1		13/16		4046	
1-1/4	1		4047			
1-1/2	1-1/4		4048			
1/4-20	3/4	3/4	3/16	5/8	4049	
				1	13/16	4050
				1-1/4	1	4051
				1-1/2	1-1/4	4052
	2	1-5/8		4053		
	3/4	1		5/8	4054	
	1			13/16	4055	
	1-1/4			1	4056	
	1-1/2			1-1/4	4057	
	2	1-5/8		4058		

KNURLED THUMB NUTS

#4-40 To 1/4-20

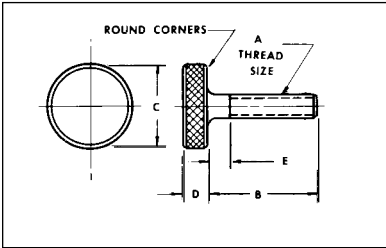


Material: 303 Stainless Steel



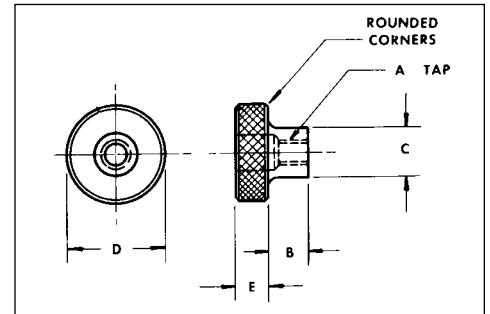
	A	B	C	D	E	F	G	Part No.	
# 4-40	1/4	1/4	1/2	1/8	1/8	1/8	1/8	4070	
	1/2			1/2	3/8	4071			
# 6-32	1/4	1/4	1/2	1/8	#26	—	3/32	4074	
	1/2			11/32			4075		
	3/4			3/32			4076		
# 8-32	1/4	5/16	1/2	1/8	1/8	—	—	4078	
	1/2			#15			1/4	4079	
	3/4			#15			—	4080	
	1/2			#15			1/4	4081	
#10-24	1/4	3/8	1/2	3/16	3/16	—	—	4082	
	1/4			1			—	4084	
	1/2			1			13/64	1/4	4085
#10-32	1/4	3/8	1/2	3/16	3/16	—	—	4086	
	1/2			1			13/64	1/4	4087
	3/4			1			—	—	4088
	1/2			1			13/64	1/4	4089
1/4-20	1/4	1/2	3/4	1/4	1/4	—	17/64	4090	
	1/2			17/64			1/4	4091	
	3/4			1			—	—	4092
	1			17/64			1/4	4093	
	3/4			1			17/64	1/2	4094

METRIC KNURLED THUMB SCREWS & NUTS



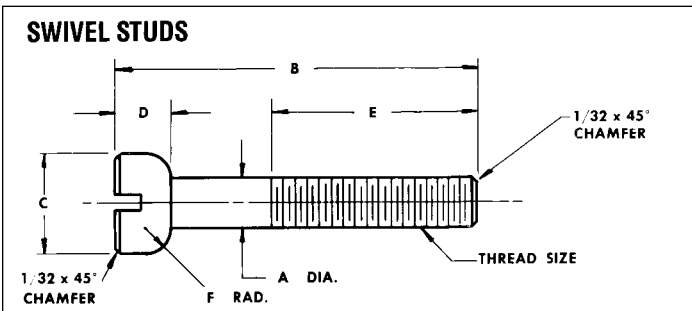
Material: 303 Stainless Steel

A	B	C	D	E	Part No.
M3 x 0.5	8	12	2.5	0	MTS1-1
	10			0	MTS1-2
	12			2	MTS1-3
	16			2	MTS1-4
M4 x 0.7	10	16	3.5	0	MTS1-5
	12			0	MTS1-6
	16			0	MTS1-7
	20			3	MTS1-8
	20			3	MTS1-9
M5 x 0.8	12	20	4	0	MTS1-10
	16			0	MTS1-11
	20			3	MTS1-12
	30			3	MTS1-13
M6 x 1	16	24	5	0	MTS1-14
	20			4	MTS1-15
	25			4	MTS1-16
	30			4	MTS1-17



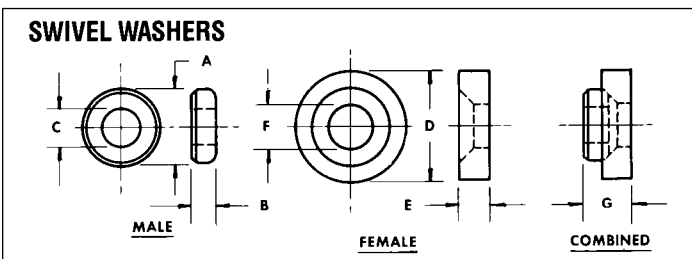
A	B	C	D	E	Part No.
M3 x 0.5	5	6	12	2.5	MTN1-1
M4 x 0.7	6	8	16	3.5	MTN1-2
M5 x 0.8	7.5	10	20	4	MTN1-3
M6 x 1	10	12	24	5	MTN1-4

SWIVEL STUDS, NUTS & WASHERS



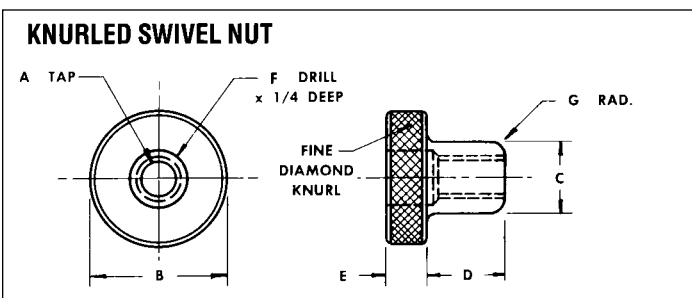
Material: 303 Stainless Steel

Thread Size	A	B	C	D	E	F	Part No.
#10-32	.190	1	3/8	3/16	5/8	1/8	2100
		1-1/4					2101
		1-1/2					2102
1/4-20	.250	1-1/4	7/16	1/4	7/8	1/8	2103
		1-1/2					2104
		1-3/4					2105
		2					2106



Material: 303 Stainless Steel

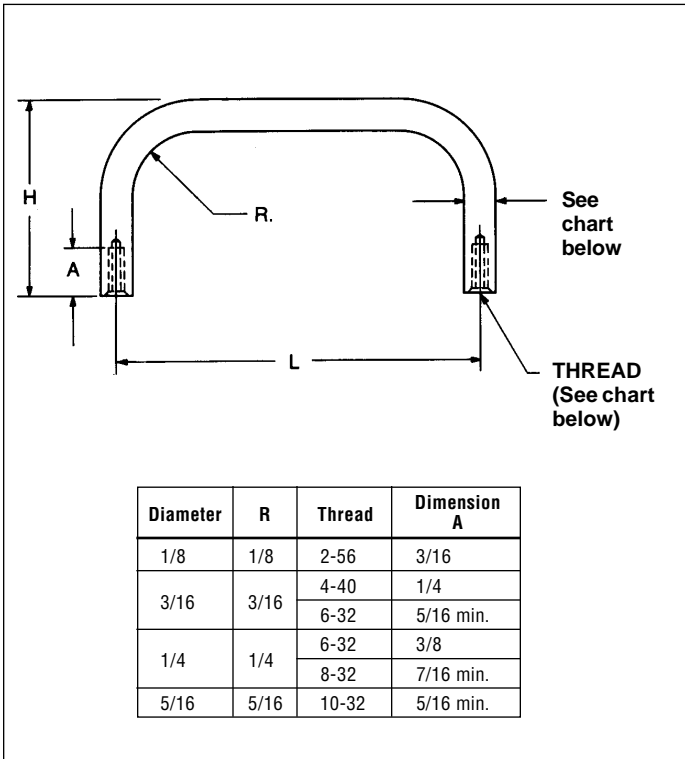
Screw Size	Male				Female				Part No.
	A	B	C	Part No.	D	E	F	G	
# 4	9/32	1/8	.116	3160	3/8	1/8	5/32	13/64	3170
# 6	9/32		.144	3161			11/64		3171
# 8	5/16		.169	3162			3/16		3172
#10	3/8	5/32	.196	3163	7/16	1/8	7/32	15/64	3173
1/4	7/16	3/16	.257	3164	1/2	5/32	9/32	17/64	3174
5/16	1/2	3/16	.323	3165	9/16	3/16	11/32	21/64	3175
3/8	5/8	1/4	.386	3166	11/16	1/4	13/32	27/64	3176



Material: 303 Stainless Steel

A	B	C	D	E	F	G	Part No.
# 4-40	1/2	9/32	1/2	1/8	1/8	3/32	3140
# 6-32		9/32			#26		3141
# 8-32		5/16			#15		3142
#10-24	3/4	3/8	9/16	3/16	13/64	1/8	3143
#10-32	3/4	3/8	9/16	3/16	13/64		3144
1/4-20	1	7/16	1/4	17/64	3145		

HANDLES — CHASSIS



Material: Aluminum per QQ-A225/8, QQ-A200/9, QQ-A-225/8B
Stainless Steel per ASTM-A-581/A-582

Aluminum
Finish: Anodize — Black per MIL-A-8625E

1/8 Round Internal Thread Handle

Center to Center L	Leg Height H	Part Number Prefix	Thread	Material / Finish
3/4"	1/2"	EF000-	for 2-56 add 256 -	for Aluminum Black Anodize add A1 or for Stainless Steel add SS
1"	1/2"	EF003-		
1-1/4"	1/2"	EF004-		
1-1/2"	1/2"	EF005-		
2"	1/2"	EF006-		

Example: 1/8" Round Aluminum, Black Anodize, 1-1/2" length: **EF005-256-A1**

3/16 Round Internal Thread Handle

Center to Center L	Leg Height H	Part Number Prefix	Thread	Material / Finish
1"	3/4"	EF054-	for 4-40 add 440 -	for Aluminum Black Anodize add A1
1-1/4"	3/4"	EF055-		
1-1/2"	3/4"	EF056-		
2"	3/4"	EF058-		
3"	3/4"	EF059-		
4"	3/4"	EF060-		
1"	3/4"	EF054-	for 6-32 add 632 -	for Aluminum Black Anodize add A1 or for Stainless Steel add SS
1-1/4"	3/4"	EF055-		
1-1/2"	3/4"	EF056-		
2"	3/4"	EF058-		
3"	3/4"	EF059-		
4"	3/4"	EF060-		

Example: 3/16" Round Stainless Steel, 3" length, 6-32 thread: **EF059-632-SS**

1/4 Round Internal Thread Handle

Center to Center L	Leg Height H	Part Number Prefix	Thread	Material / Finish
1-1/8"	1"	EF102-	for 6-32 add 632 - or for 8-32 add 832 -	for Aluminum Black Anodize add A1 or for Stainless Steel add SS
1-1/4"	1"	EF103-		
1-1/2"	1"	EF104-		
2"	1"	EF106-		
3"	1"	EF110-		
4"	1"	EF111-		
5"	1"	EF112-		

Example: 1/4" Round Aluminum, Black Anodize, 2" length, 8-32 thread: **EF106-832-A1**

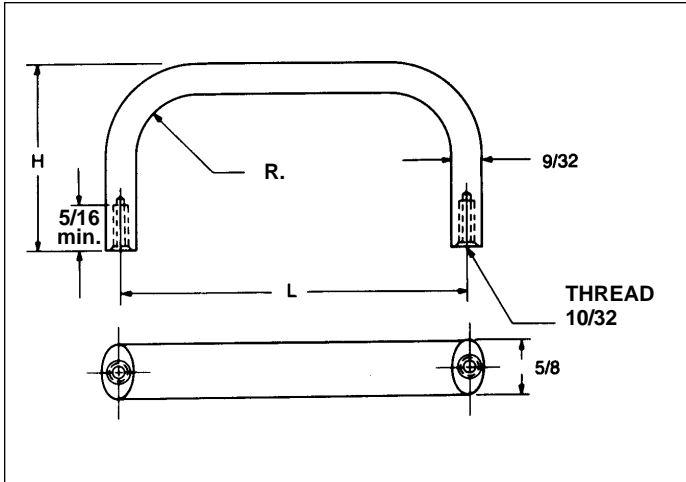
5/16 Round Internal Thread Handle

Center to Center L	Leg Height H	Part Number Prefix	Thread	Material / Finish
2"	1-1/2"	EF172 —	for 10-32 add 1032 -	for Aluminum Black Anodize add A1 or for Stainless Steel add SS
2-1/2"	1-1/2"	EF176 —		
3"	1-1/2"	EF178 —		
3-1/2"	1-1/2"	EF181 —		
4"	1-1/2"	EF182 —		
4-1/2"	1-1/2"	EF184 —		
5"	1-1/2"	EF187 —		
5-1/2"	1-1/2"	EF189 —		
6"	1-1/2"	EF191 —		
6-1/2"	1-1/2"	EF193 —		

Example: 5/16" Round Stainless Steel, 5" length, 10-32 thread: **EF187-1032-SS**

HANDLES — CHASSIS

5/8 x 9/32 Oval Internal Thread Handle Aluminum — Black Anodize (10-32 Thread)



Center to Center L	Leg Height H	Part Number
3"	1"	EF349-1032-A1
4"	1"	EF350-1032-A1
4-9/16"	1"	EF353-1032-A1
3"	1-9/32"	EF358-1032-A1
4"	1-9/32"	EF359-1032-A1
4-1/2"	1-9/32"	EF361-1032-A1
4-9/16"	1-9/32"	EF362-1032-A1
5"	1-9/32"	EF363-1032-A1
6"	1-9/32"	EF364-1032-A1
4"	1-1/2"	EF368-1032-A1
4-1/2"	1-1/2"	EF370-1032-A1
4-9/16"	1-1/2"	EF371-1032-A1
5"	1-1/2"	EF372-1032-A1
6"	1-1/2"	EF373-1032-A1
6-7/16"	1-1/2"	EF374-1032-A1
7"	1-1/2"	EF375-1032-A1
3"	1-3/4"	EF376-1032-A1
4"	1-3/4"	EF377-1032-A1
4-9/16"	1-3/4"	EF380-1032-A1
5"	1-3/4"	EF381-1032-A1
6"	1-3/4"	EF383-1032-A1
6-7/16"	1-3/4"	EF384-1032-A1
7"	1-3/4"	EF385-1032-A1

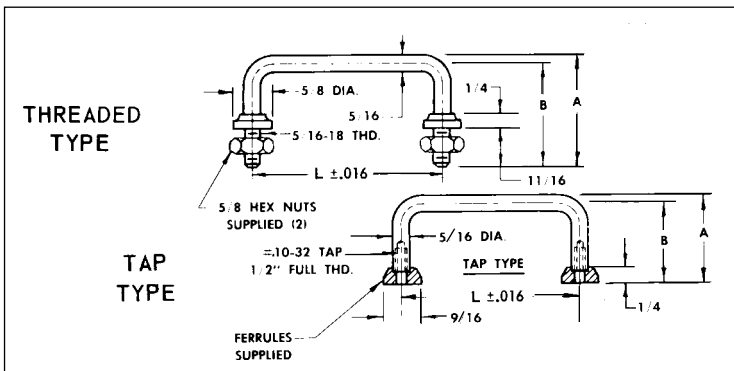
Material: Aluminum per QQ-A225/8, QQ-A200/9, QQ-A-225/8B

Aluminum

Finish: Anodize — Black per MIL-A-8625E

HANDLES — CHASSIS

Original Style Threaded & Tap Type

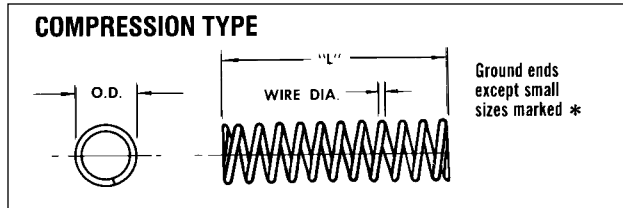


Material: Stainless Steel

L	B	Threaded Type		Tap Type	
		A	Part Number	A	Part Number
3.000	1-1/2	1-21/32	EF-1	1-21/32	EF-5
4.500	1-1/2	1-21/32	EF-2	1-21/32	EF-6
5.500	1-5/8	1-25/32	EF-3	1-25/32	EF-7
6.500	1-3/4	1-29/32	EF-4	1-29/32	EF-8

STAINLESS PRECISION SPRINGS

Compression Extension Anti-Backlash & Experimental Springs



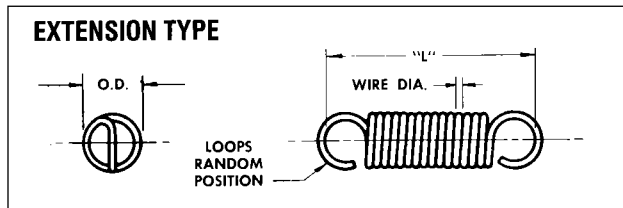
Material: 302 Stainless Steel
(Spring Temper)

K = AVERAGE SPRING
RATE-LB./IN.

O.D.	Wire Dia.	Free Length "L"	K	Part No.	
1/16	.008	1/4	4.3	*AY-20	
	.008	1/2	2.0	*AY-22	
3/32	.010	1/4	4.3	*AY-24	
	.010	1/2	2.1	*AY-26	
	.012	3/8	5.6	*AY-28	
	.012	3/4	2.5	*AY-30	
1/8	.016	1/4	14.6	AY-32	
	.016	1/2	7.1	AY-34	
	.018	3/8	15.0	AY-36	
	.018	3/4	7.1	AY-38	
	.020	3/8	24.2	AY-40	
	.020	3/4	11.2	AY-42	
	.022	1/2	25.8	AY-44	
	.022	1	12.5	AY-46	
	3/16	.018	1/2	5.8	AY-48
		.018	1	2.6	AY-50
.020		1/2	7.7	AY-52	
.020		1	3.7	AY-54	

O.D.	Wire Dia.	Free Length "L"	K	Part No.
3/16	.022	1/2	11.7	AY-56
	.022	1	5.2	AY-58
	.024	1/2	15.8	AY-60
	.024	1	7.5	AY-62
	.026	1/2	22.5	AY-64
	.026	1	10.2	AY-66
	.029	3/4	22.5	AY-68
	.029	1-1/2	10.7	AY-70
	.032	3/4	34.2	AY-72
	.032	1-1/2	16.2	AY-74
1/4	.026	1/2	14.2	AY-76
	.026	1	6.2	AY-78
	.035	1/2	43.3	AY-80
	.035	1	19.2	AY-82

*Ground Ends Except Small Sizes Marked.

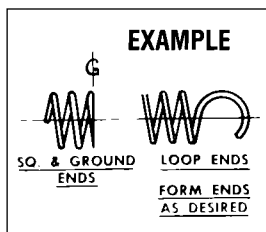
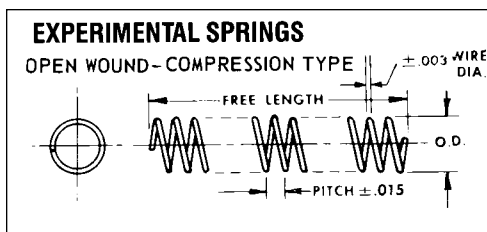


Material: 302 Stainless Steel
(Spring Temper)

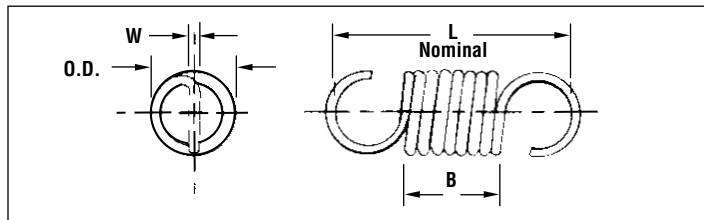
K = AVERAGE SPRING RATE-LB./IN.

O.D.	Wire Dia.	Free Length "L"	K	Part No.
1/16	.008	1/2	.6	AZ-22
3/32	.010	3/4	.4	AZ-26
1/8	.016	3/4	1.7	AZ-28
	.016	1-1/4	1.0	AZ-30
	.020	3/4	6.2	AZ-32
3/16	.022	3/4	3.2	AZ-36
	.022	1-1/4	1.5	AZ-38
	.031	3/4	20.0	AZ-44

O.D.	Wire Dia.	Free Length "L"	K	Part No.
1/4	.026	1-1/4	1.6	AZ-50
	.029	1-1/4	2.8	AZ-54
	.031	3/4	10.0	AZ-56
	.031	1-1/4	4.1	AZ-58
	.034	3/4	14.8	AZ-60
	.034	1-1/4	6.6	AZ-62



Material: 302 Stainless Steel-Spring Temper



Type Gear	Pitch	W Wire Dia.	L Nominal	O.D. ±.010	B Approx.	Part Number
Spur	48 to 120	.012	.350	.115	.170	BE-16
Worm	48 & 64	.015	.350	.115	.170	BE-66
Spur	24 & 32	.018	.350	.115	.170	BE-67
Mini Spur	Miniature	.012	.240	.093	.120	BE-16M

O.D.	Fits Over Pin or Screw Dia.	Wire Dia.	Approx. No. of Coils	Pitch	Free Length	Part No.
3/32	—	.0159	32	.042	1-1/2	AY-1
1/8	—	.0179	37	.062	2	AY-2
3/16	—	.0226	37	.075	2-1/2	AY-3
1/4	—	.0253	29	.093	3	AY-4
5/16	—	.0320	29	.125	3-1/2	AY-5
9/64	3/32	.0159	17	.042	1	AY-7
11/64	1/8	.0179	19	.062	1-1/4	AY-8
1/4	3/16	.0226	22	.075	1-1/2	AY-9
21/64	1/4	.0253	19	.093	1-3/4	AY-10
25/64	5/16	.0320	16	.125	2	AY-11
15/32	3/8	.0403	12	.156	2-1/4	AY-12
39/64	1/2	.0465	15	.156	2-1/2	AY-13

STAINLESS PRECISION SPRING KITS

Description of Contents	Number of Parts	Part No.
Compression Springs-Stainless Steel Assorted diameters from .057 to .240 and lengths from 1/4" to 2".	150	Y7K
Extension Springs-Stainless Steel Assorted diameters from 1/16 to 1/2 and lengths from 1/4" to 2".	150	Y8K