

## 53 Captive Screws

Polished · Spring-ejected · M3 thread size

### Features

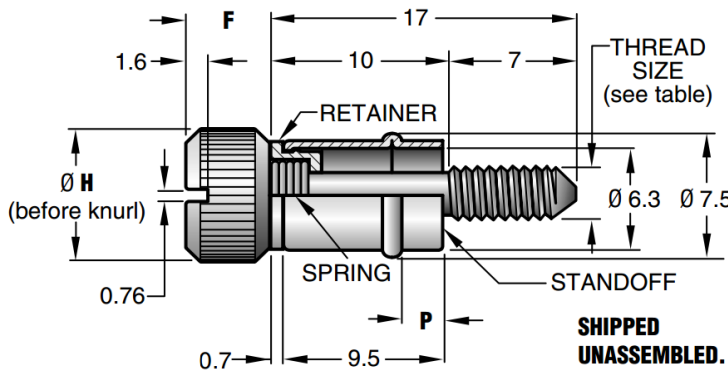
- Highly polished appearance

### Notes

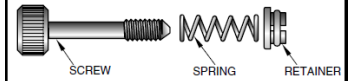
- Each part number represents a screw and standoff shipped unassembled, protectively packaged (bright standoffs are bulk packaged)
- Do not exceed 0.4 N.m tightening torque when fastening

### Material

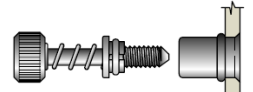
- Screw: 302 stainless steel
- Standoff: 305 stainless steel
- Above parts are passivated or are passivated with black organic coating
- Spring: 302 stainless steel
- Retainer: Natural colour nylon



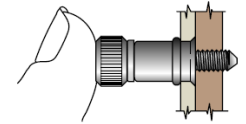
### To Captivate Screw



Assemble seating end of spring into recess retainer.



Insert screw (with spring and retainer) into standoff.

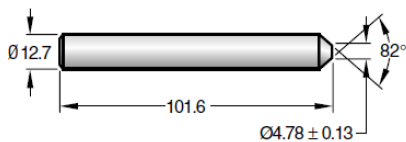


Press to snap retainer into standoff.

YOUR OUTER PANEL THICKNESS		DIMENSIONS			THREAD SIZE	PART NUMBERS
MIN.	MAX.	P	Ø H	F		
<b>BLACK screw assemblies</b>						
1.3	1.7	1.6	7.1	4.0	M3 x 0.5	53-72-410-26
2.1	2.5	2.3				53-72-510-26
2.9	3.3	3.2				53-72-610-26
<b>BRIGHT POLISHED screw assemblies</b>						
1.3	1.7	1.6	7.1	4.0	M3 x 0.5	53-72-410-24
2.1	2.5	2.3				53-72-510-24
2.9	3.3	3.2				53-72-610-24

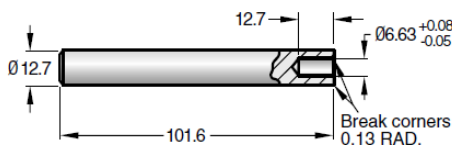
### Standoff Installation Tools

(Order separately).



**PART NUMBER**  
54-0-5467-11

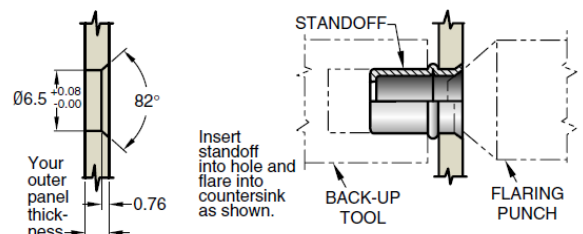
**Material**  
Hardened steel.



**PART NUMBER**  
54-0-5466-11

**Material**  
Hardened steel.

### To Install Standoff



Insert standoff into hole and flare into countersink as shown.

# 53 Captive Screws

Polished · Spring-ejected · M4, M5, and M6 thread size

### Features

- Highly polished appearance

### Notes

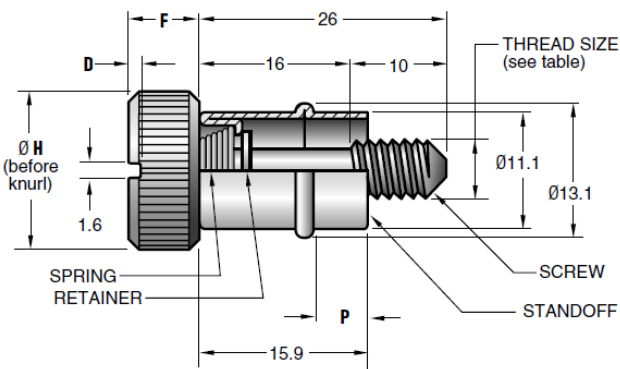
- Each part number represents a screw and standoff shipped unassembled, protectively packaged (bright standoffs are bulk packaged)

### Material

- Screws: 302 stainless steel
- Standoff: 305 stainless steel
- Above parts are passivated or are passivated with black organic coating
- Spring and retainer: 302 stainless steel, passivated



CAPTIVE SCREWS



Your Outer Panel Thickness		Select an assembly with P dim. of:	Use this installation method
MIN.	MAX.		
1.6	1.9	3.2	<b>B</b>
2.3	3.6	4.8	<b>B</b>
2.8	3.6	3.2	<b>A</b>
3.9	5.2	6.3	<b>B</b>
4.4	5.2	4.8	<b>A</b>
5.9	6.7	6.3	<b>A</b>

DIMENSIONS				THREAD SIZE	PART NUMBERS
P	Ø H	D	F		

**BLACK screw assemblies**

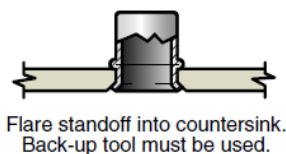
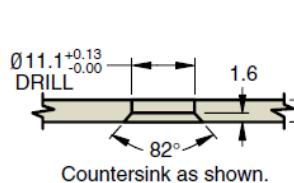
3.2	10.3	1.6	6.0	M4 X 0.7	53-74-716-26
4.8					53-74-816-26
6.3					53-74-916-26
3.2	11.1	1.6	6.3	M5 X 0.8	53-76-716-26
4.8					53-76-816-26
6.3					53-76-916-26
3.2	14.3	2.3	6.3	M6 X 1.0	53-77-416-26
4.8					53-77-516-26
6.3					53-77-616-26

**BRIGHT POLISHED screw assemblies**

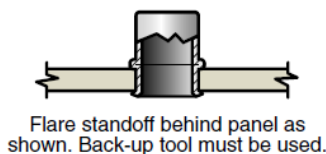
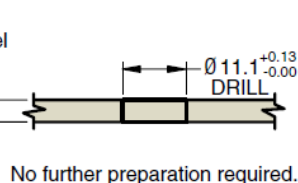
3.2	10.3	1.6	6.0	M4 X 0.7	53-74-716-24
4.8					53-74-816-24
6.3					53-74-916-24
3.2	11.1	1.6	6.3	M5 X 0.8	53-76-716-24
4.8					53-76-816-24
6.3					53-76-916-24
3.2	14.3	2.3	6.3	M6 X 1.0	53-77-416-24
4.8					53-77-516-24
6.3					53-77-616-24

## To Install Standoff

### Method A



### Method B



1. Measure your outer panel thickness and enter SCREW ASSEMBLY SELECTION TABLE with your thickness.
2. Read across to find P dimension and installation method (A or B).
3. Enter ASSEMBLY PART NUMBER TABLE with your P dimension, at section having your desired thread size, and read across to find correct assembly part number.



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## 53 Captive Screws

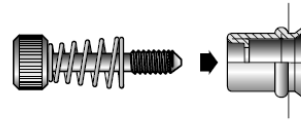
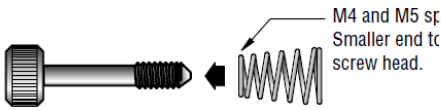
Polished · Spring-ejected · M4, M5, and M6 thread size



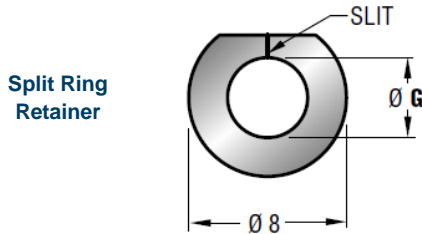
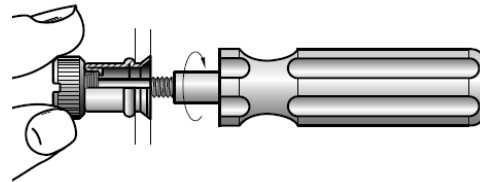
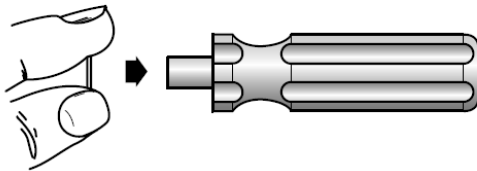
### Installation

#### To Captivate Screw

1. Slip spring over shank of screw. Spring must be oriented as shown in diagram.
2. Insert screw (with spring) through hole in standoff.



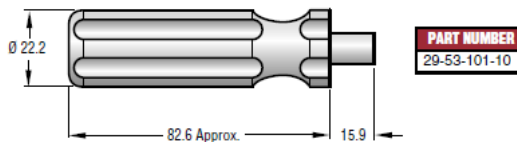
3. Insert retainer into recess in end of tool.
4. Hold screw head and rotate tool until retainer is threaded onto throat of screw.



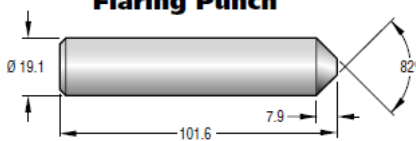
SCREW THREAD SIZE	Ø G
M4 x 0.7	3.5
M5 x 0.8	4.2
M6 x 1	5.1

### Installation Tools (Order separately). for larger metric spring-ejected NO. 53 assemblies

#### For Retainers



#### Flaring Punch

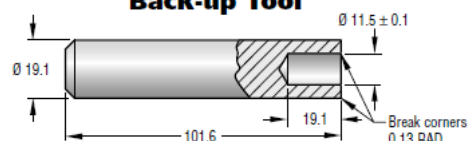


PART NUMBER  
90-2824-11

**Material**  
Hardened steel.

#### For Standoff

#### Back-up Tool



PART NUMBER  
90-2825-11

**Material**  
Mild steel.

# 53 Captive Screws

Polished · Spring-ejected · 4-40 and 6-32 thread size

### Features

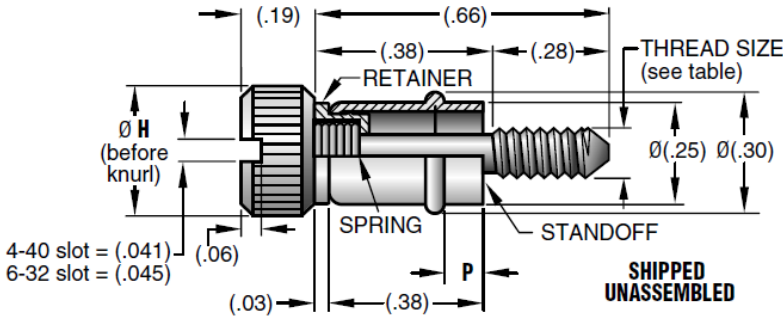
- Highly polished appearance

### Notes

- Do not exceed 3-1/2 in.lb tightening torque when fastening

### Material

- No. 4 Screw: 303 stainless steel
- No. 6 Screw: 302 stainless steel
- Standoff: 305 stainless steel
- Screws and standoffs are passivated, or are passivated with black organic coating
- Spring: 302 stainless steel, passivated
- Retainer:
  - No. 4 size - natural colour nylon
  - No. 6 size - black nylon



### To Captivate Screw

1. Assemble, seating end of spring into recess in retainer.
2. Insert screw (with spring and retainer) into standoff.
3. Press to snap retainer into standoff.

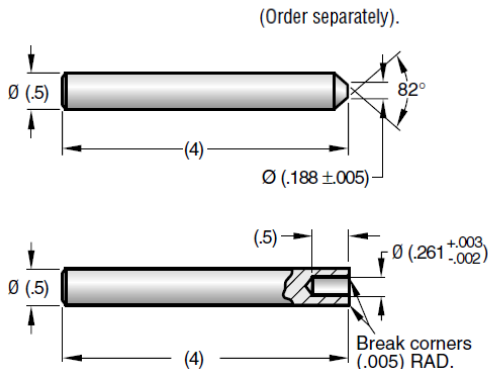
### BLACK screw assemblies

OUTER PANEL THICKNESS			PART NUMBERS		P
			4-40	6-32	
MIN.	NOM.	MAX.	Ø H = (.31)	Ø H = (.31)	
(.05)	(.06)	(.07)	53-10-406-26	53-18-406-26	(.06)
(.08)	(.09)	(.10)	53-10-506-26	53-18-506-26	(.09)
(.11)	(.12)	(.13)	53-10-606-26	53-18-606-26	(.13)

### BRIGHT POLISHED screw assemblies

your OUTER PANEL THICKNESS			PART NUMBERS		P
			4-40	6-32	
MIN.	NOM.	MAX.	Ø H = (.31)	Ø H = (.31)	
(.05)	(.06)	(.07)	53-10-406-24	53-18-406-24	(.06)
(.08)	(.09)	(.10)	53-10-506-24	53-18-506-24	(.09)
(.11)	(.12)	(.13)	53-10-606-24	53-18-606-24	(.13)

### Standoff Installation Tools



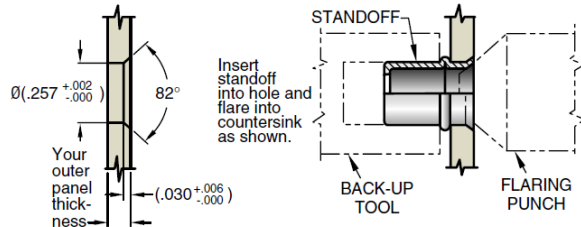
**PART NUMBER**  
54-0-5467-11

**Material**  
Hardened steel.

**PART NUMBER**  
54-0-5466-11

**Material**  
Hardened steel.

### To Install Standoff



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## 53 Captive Screws

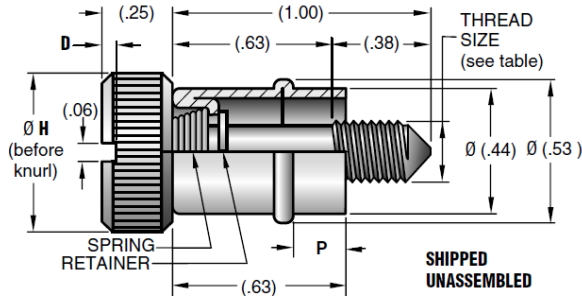
Polished · Spring-ejected · 8-32, 10-32 and 1/4-20 thread size

### Features

- Highly polished appearance

### Material

- Screw, spring and retainer: 302 stainless steel
- Standoff: 305 stainless steel, passivated with black organic coating
- Spring and retainer: 302 stainless steel, passivated



Ø H	D
(.69)	(.13)
(.56)	(.09)
(.44)	(.06)

### Slotted BLACK screw assemblies

P	Ø H = (.44)		Ø H = (.56)	Ø H = (.69)
	8-32	10-32	1/4-20	1/4-20
(.13)	53-17-710-26	53-16-710-26	53-11-410-26	53-11-110-26
(.19)	53-17-810-26	53-16-810-26	53-11-510-26	53-11-210-26
(.25)	53-17-910-26	53-16-910-26	53-11-610-26	53-11-310-26

Screws will fully retract

(.13)	53-17-710-26	53-16-710-26	53-11-410-26	53-11-110-26
(.19)	53-17-810-26	53-16-810-26	53-11-510-26	53-11-210-26
(.25)	53-17-910-26	53-16-910-26	53-11-610-26	53-11-310-26

### Slotted BRIGHT POLISHED screw assemblies

P	Ø H = (.44)		Ø H = (.56)	Ø H = (.69)
	8-32	10-32	1/4-20	1/4-20
(.13)	53-17-710-24	53-16-710-24	53-11-410-24	53-11-110-24
(.19)	53-17-810-24	53-16-810-24	53-11-510-24	53-11-210-24
(.25)	53-17-910-24	53-16-910-24	53-11-610-24	53-11-310-24

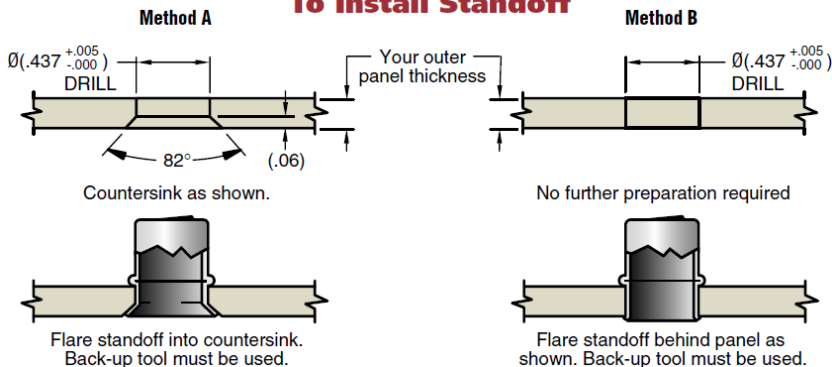
Screws will fully retract

(.13)	53-17-710-24	53-16-710-24	53-11-410-24	53-11-110-24
(.19)	53-17-810-24	53-16-810-24	53-11-510-24	53-11-210-24
(.25)	53-17-910-24	53-16-910-24	53-11-610-24	53-11-310-24

1. Measure your outer panel thickness and enter SCREW ASSEMBLY SELECTION TABLE (right) with your thickness.
2. Read across to find P dimension and installation method (A or B).
3. Enter ASSEMBLY PART NUMBER TABLE (right) with your P dimension, at section having your desired thread size, and read across to find correct assembly part number.

your Outer Panel Thickness		Select an assembly with P dim. of:	Use this installation method
MIN.	MAX.		
(.06)	(.08)	(.13)	<b>B</b>
(.09)	(.14)	(.19)	<b>B</b>
(.11)	(.14)	(.13)	<b>A</b>
(.16)	(.20)	(.25)	<b>B</b>
(.17)	(.20)	(.19)	<b>A</b>
(.23)	(.27)	(.25)	<b>A</b>

### To Install Standoff



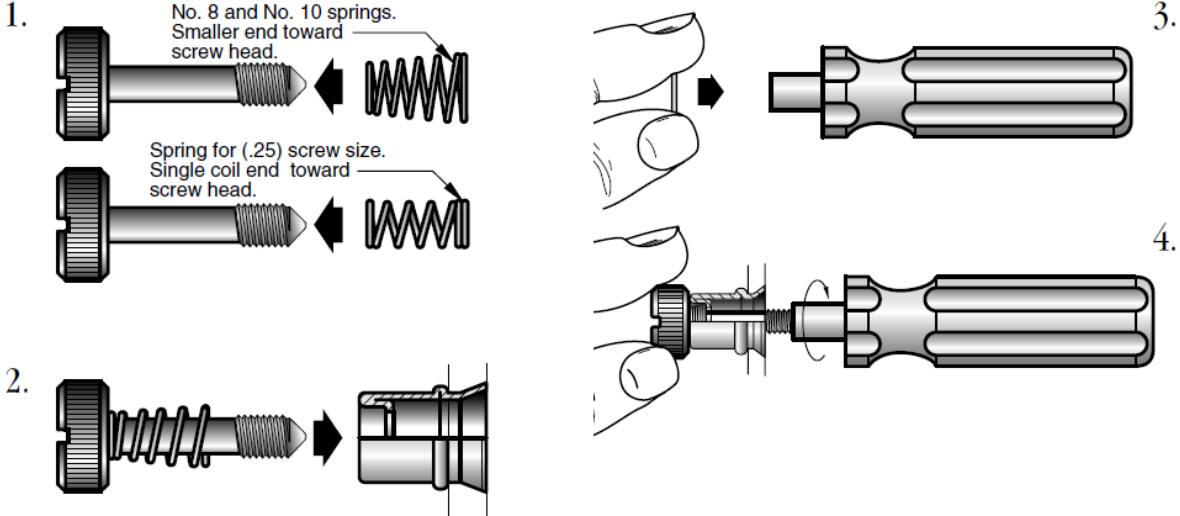
# 53 Captive Screws

Polished · Spring-ejected · 8-32, 10-32 and 1/4-20 thread size

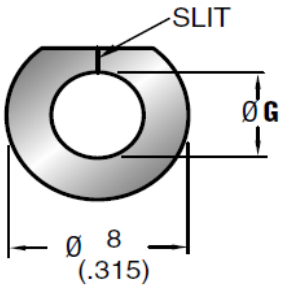


## Installation

### To Captivate Screw

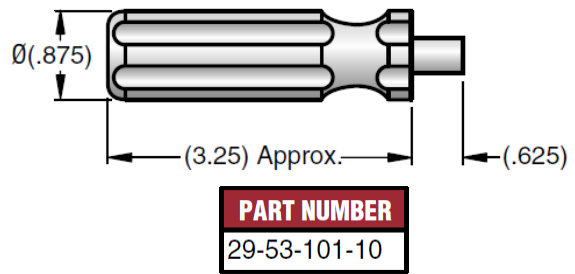


### Split Ring Retainer

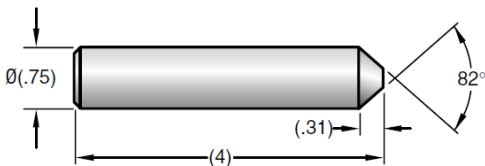


SCREW THREAD SIZE	D
No. 8	(.139)
No. 10-32	(.165)
1/4-20	(.202)
No. 10-24	(.149)

### Installation Tool for Retainers



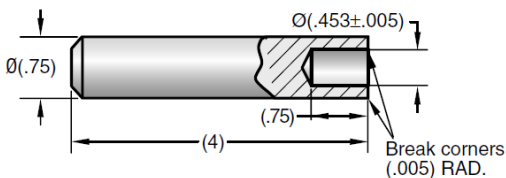
### Standoff Installation Tools



**FLARING PUNCH**

**PART NUMBER**  
90-2824-11

**Material**  
Steel, hardened.



**BACK-UP TOOL**

**PART NUMBER**  
90-2825-11

**Material**  
Steel, hardened.

### To Captivate Screw

1. Slip spring over shank of screw. Spring must be oriented as shown in diagram
2. Insert screw (with spring in place) through hole in standoff
3. Insert retainer into recess in end of tool
4. Hold screw head and rotate tool until retainer is threaded onto throat of screw



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