09 Series Fast-Lead Screws

Studs · Small

Material and Finish

Low carbon steel, case hardened, zinc plated, chromate plus sealer or stainless steel

How to Specify:

1. Determine your outer panel and frame thicknesses:
Outer panel P =
Frame thickness F =
2. Choose your receptacle
3. Choose the retainer style
4. Find the correct constant in table opposite using the receptacle and retainer selected
5. Add outer panel thickness (P), frame thickness (F), and the constant found in step 4 to determine your total material thickness (TMT)
TMT = P+F+Constant
6. Find the TMT value in the ranges given in Column 1 in the part number table
7. Confirm that the outer panel thickness P does not exceed the value given in Column 2. This will confirm that your retainer will install properly beyond the last thread and retain your screw to the outer panel
8. Going across the row in the part number table, find the part number that matches your desired head style

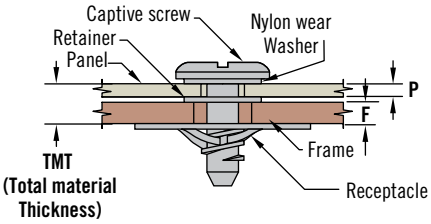
Part Number

See table

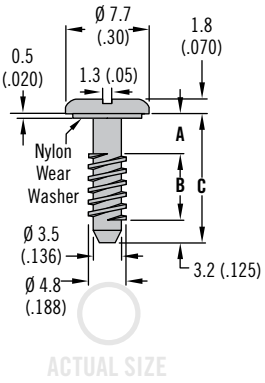
Notes

For full screw retraction, **B** must be less than frame thickness plus receptacle height

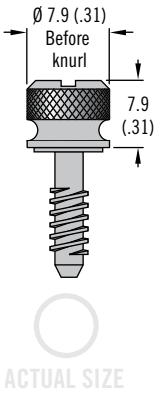
For stainless steel screw (slotted, and knurled ONLY) replace last 2 digits of part number with "26". Example: 09-11-102-26



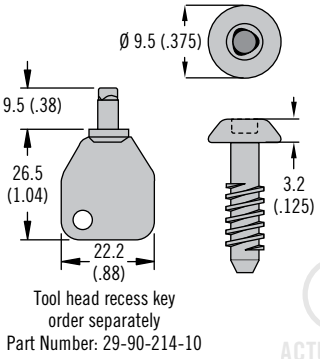
Slot



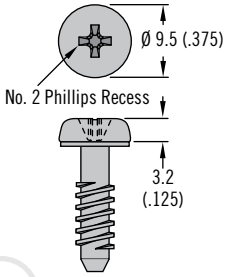
Knurled Head



Tool head Recess



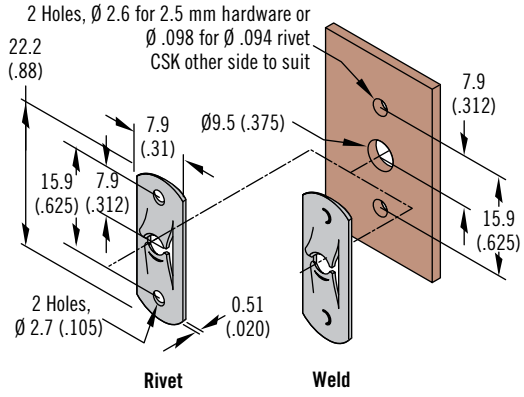
Phillips Recess



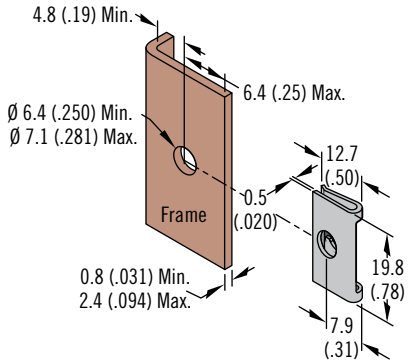
Constant Table				
Retainer Type	Receptacle Type			
	Flat Rivet or Weld	Clip	Saddle	Press-In
Stainless steel	0.3 (.012)	1.0 (.032)	4.5 (.177)	-1.3 (-.050)
Nylon	1.1 (.043)	1.6 (.063)	5.3 (.208)	-0.5 (-.020)

Column 1		Column 2	Screw Assembly Part Number				Dimensions		
TMT		Outer Panel P	Slotted	Knurled	Tool Head Recess	Phillips Recess	A	B	C
Min.	Max.								
1.3 (.050)	3.2 (.125)	0.9 (.035)	09-11-102-11	09-13-102-11	09-T-102	09-P-102	2.5 (.100)	5.0 (.197)	10.7 (.422)
2.5 (.100)	3.2 (.125)	2.2 (.085)	09-11-103-11	09-13-103-11	09-T-103	09-P-103	3.8 (.150)	3.7 (.147)	
1.3 (.050)	6.4 (.250)	0.9 (.035)	09-11-202-11	09-13-202-11	09-T-202	09-P-202	2.5 (.100)	8.2 (.322)	13.9 (.547)
2.5 (.100)	6.4 (.250)	2.2 (.085)	09-11-203-11	09-13-203-11	09-T-203	09-P-203	3.8 (.150)	6.9 (.272)	
3.8 (.150)	6.4 (.250)	3.4 (.135)	09-11-204-11	09-13-204-11	09-T-204	09-P-204	5.1 (.200)	5.6 (.222)	
5.1 (.200)	6.4 (.250)	4.7 (.185)	09-11-205-11	09-13-205-11	09-T-205	09-P-205	6.4 (.250)	4.4 (.172)	
1.3 (.050)	9.5 (.375)	0.9 (.035)	09-11-302-11	09-13-302-11	09-T-302	09-P-302	2.5 (.100)	11.4 (.447)	17.1 (.672)
2.5 (.100)	9.5 (.375)	2.2 (.085)	09-11-303-11	09-13-303-11	09-T-303	09-P-303	3.8 (.150)	10.1 (.397)	
3.8 (.150)	9.5 (.375)	3.4 (.135)	09-11-304-11	09-13-304-11	09-T-304	09-P-304	5.1 (.200)	8.8 (.347)	
5.1 (.200)	9.5 (.375)	4.7 (.185)	09-11-305-11	09-13-305-11	09-T-305	09-P-305	6.4 (.250)	7.3 (.297)	
7.6 (.300)	9.5 (.375)	7.2 (.285)	09-11-307-11	09-13-307-11	09-T-307	09-P-307	8.9 (.350)	5.0 (.197)	

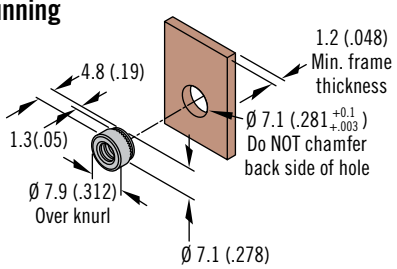
Flat Type Receptacle



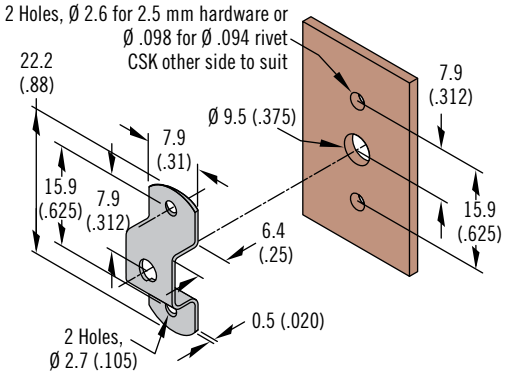
Clip-On Type Receptacle



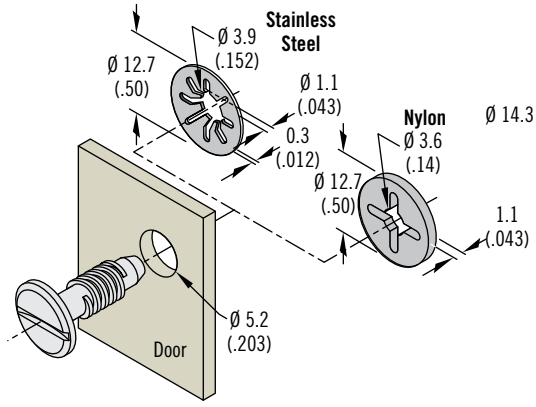
Self-Clinching Receptacle
Free Running

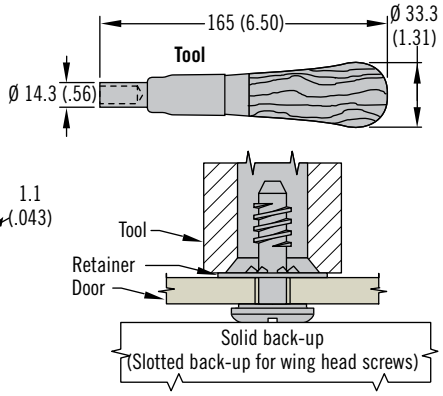


Saddle Type Receptacle



Retainers





Type	Receptacle Part Number	
	Steel	Stainless steel
Flat receptacle rivet-on	09-41-101-11	09-41-101-24
Flat receptacle weld-on	~	09-41-103-24
Clip-on receptacle	09-43-101-11	09-43-101-24
Press-in receptacle	09-44-101-11	~
Saddle type receptacle	09-42-101-11	09-42-101-24

Retainer Style	Retainer Part Number	Tool Part Number
302 Stainless steel, passivated	09-6-1	12-0-20980-11
Nylon, black	09-49-102-42	

Material and Finish
Steel, zinc immersion coating or stainless steel

Installation Notes
See page 497 for self-clinching installation guidelines

Part Number
See table

12 Series Fast-Lead Screws

Studs · Medium

Material and Finish

Low carbon steel, case hardened, zinc plate, chromate plus sealer or stainless steel

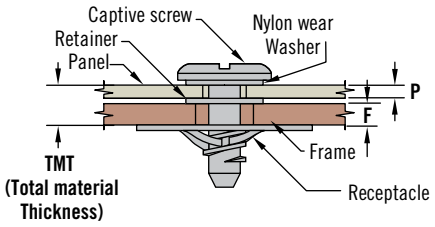
How to Specify:

1. Determine your outer panel and frame thicknesses:
Outer panel P =
Frame thickness F =
2. Choose your receptacle
3. Choose the retainer style
4. Find the correct constant in table opposite using the receptacle and retainer selected
5. Add outer panel thickness (P), frame thickness (F), and the constant found in step 4 to determine your total material thickness (TMT)
TMT = P+F+Constant
6. Find the TMT value in the ranges given in Column 1 in the part number table
7. Confirm that the outer panel thickness P does not exceed the value given in Column 2. This will confirm that your retainer will install properly beyond the last thread and retain your screw to the outer panel
8. Going across the row in the part number table, find the part number that matches your desired head style

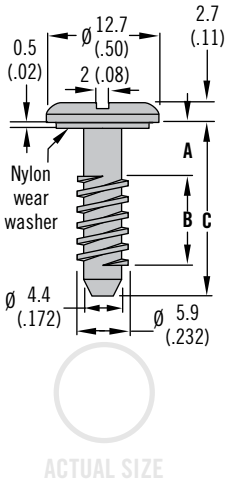
Notes

For full screw retraction, **B** must be less than inner panel thickness plus receptacle height

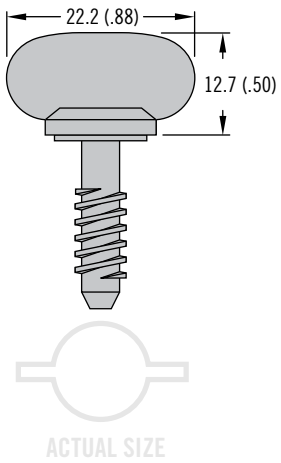
For stainless steel screw (slot, wing and knurled ONLY) replace last 2 digits of part number with "12". Example: 12-11-102-12



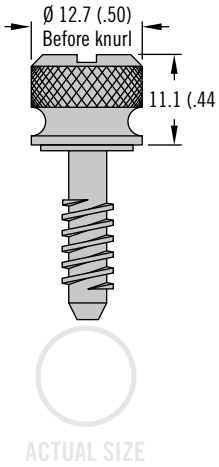
Slot



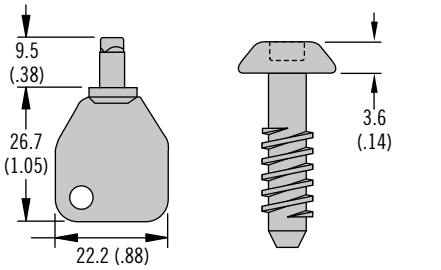
Wing Head



Knurled Head

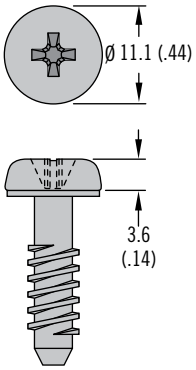


Tool head Recess



Tool head recess key
order separately
Part number 29-90-214-10

Phillips Recess



Constant Table					
Retainer type	Receptacle Type				
	Flat	Clip	Saddle	Side	Press-In
Stainless steel	0.38 (.015)	1.1 (.045)	4.0 (.156)	1.5 (.060)	-1.3 (-.050)
Nylon	1.4 (.054)	2.0 (.079)	5.31 (.210)	1.5 (.060)	-0.5 (-.020)

Part Number

See table

Column 1		Column 2	Screw Assembly Part Number					Dimensions		
TMT to be Fastened		Max. Thickness of Outer Panel P	Slotted	Wing	Knurled	Tool Head Recess	Phillips Recess	A	B	C
Min.	Max.									
1.3 (.050)	3.2 (.125)	0.6 (.025)	12-11-102-11	12-12-102-11	12-13-102-11	12-T-102	12-P-102	2.5 (.100)	5.8 (.228)	12.3 (.486)
2.5 (.100)		1.9 (.075)	12-11-103-11	12-12-103-11	12-13-103-11	12-T-103	12-P-103	3.8 (.150)	4.5 (.178)	
1.3 (.050)	6.4 (.250)	0.6 (.025)	12-11-202-11	12-12-202-11	12-13-202-11	12-T-202	12-P-202	2.5 (.100)	9.0 (.353)	15.5 (.611)
2.5 (.100)		1.9 (.075)	12-11-203-11	12-12-203-11	12-13-203-11	12-T-203	12-P-203	3.8 (.150)	7.7 (.303)	
3.8 (.150)		3.2 (.125)	12-11-204-11	12-12-204-11	12-13-204-11	12-T-204	12-P-204	5.1 (.200)	6.4 (.253)	
5.1 (.200)		4.5 (.175)	12-11-205-11	12-12-205-11	12-13-205-11	12-T-205	12-P-205	6.4 (.250)	5.2 (.203)	
1.3 (.050)	9.5 (.375)	0.6 (.025)	12-11-302-11	12-12-302-11	12-13-302-11	12-T-302	12-P-302	2.5 (.100)	12.1 (.478)	18.7 (.736)
2.5 (.100)		1.9 (.075)	12-11-303-11	12-12-303-11	12-13-303-11	12-T-303	12-P-303	3.8 (.150)	10.9 (.428)	
3.8 (.150)		3.2 (.125)	12-11-304-11	12-12-304-11	12-13-304-11	12-T-304	12-P-304	5.1 (.200)	9.6 (.378)	
5.1 (.200)		4.5 (.175)	12-11-305-11	12-12-305-11	12-13-305-11	12-T-305	12-P-305	6.4 (.250)	8.3 (.328)	
7.6 (.300)		7.0 (.275)	12-11-307-11	12-12-307-11	12-13-307-11	12-T-307	12-P-307	8.9 (.350)	5.8 (.228)	
2.5 (.100)	12.7 (.500)	1.9 (.075)	12-11-403-11	12-12-403-11	12-13-403-11	12-T-403	12-P-403	3.8 (.150)	14.1 (.553)	21.9 (.861)
3.8 (.150)		3.2 (.125)	12-11-404-11	12-12-404-11	12-13-404-11	12-T-404	12-P-404	5.1 (.200)	12.8 (.503)	
5.1 (.200)		4.5 (.175)	12-11-405-11	12-12-405-11	12-13-405-11	12-T-405	12-P-405	6.4 (.250)	11.5 (.453)	
7.6 (.300)		7.0 (.275)	12-11-407-11	12-12-407-11	12-13-407-11	12-T-407	12-P-407	8.9 (.350)	9.0 (.353)	
10.2 (.400)		9.5 (.375)	12-11-409-11	12-12-409-11	12-13-409-11	12-T-409	12-P-409	11.4 (.450)	6.4 (.253)	
2.5 (.100)	15.9 (.625)	1.9 (.075)	12-11-503-11	12-12-503-11	12-13-503-11	12-T-503	12-P-503	3.8 (.150)	17.2 (.678)	25 (.986)
3.8 (.150)		3.2 (.125)	12-11-504-11	12-12-504-11	12-13-504-11	12-T-504	12-P-504	5.1 (.200)	16.0 (.628)	
5.1 (.200)		4.5 (.175)	12-11-505-11	12-12-505-11	12-13-505-11	12-T-505	12-P-505	6.4 (.250)	14.7 (.578)	
7.6 (.300)		7.0 (.275)	12-11-507-11	12-12-507-11	12-13-507-11	12-T-507	12-P-507	8.9 (.350)	12.1 (.478)	
10.2 (.400)		9.5 (.375)	12-11-509-11	12-12-509-11	12-13-509-11	12-T-509	12-P-509	11.4 (.450)	9.6 (.378)	
12.7 (.500)		12.1 (.475)	12-11-511-11	12-12-511-11	12-13-511-11	12-T-511	12-P-511	14 (.550)	7.1 (.278)	
2.5 (.100)	19.1 (.750)	1.9 (.075)	12-11-603-11	12-12-603-11	12-13-603-11	12-T-603	12-P-603	3.8 (.150)	20.4 (.803)	28.2 (1.111)
3.8 (.150)		3.2 (.125)	12-11-604-11	12-12-604-11	12-13-604-11	12-T-604	12-P-604	5.1 (.200)	19.1 (.753)	
5.1 (.200)		4.5 (.175)	12-11-605-11	12-12-605-11	12-13-605-11	12-T-605	12-P-605	6.4 (.250)	17.9 (.703)	
7.6 (.300)		7.0 (.275)	12-11-607-11	12-12-607-11	12-13-607-11	12-T-607	12-P-607	8.9 (.350)	15.3 (.603)	
10.2 (.400)		9.5 (.375)	12-11-609-11	12-12-609-11	12-13-609-11	12-T-609	12-P-609	11.4 (.450)	12.8 (.503)	
12.7 (.500)		12.1 (.475)	12-11-611-11	12-12-611-11	12-13-611-11	12-T-611	12-P-611	14 (.550)	10.2 (.403)	
15.3 (.600)		14.6 (.575)	12-11-613-11	12-12-613-11	12-13-613-11	12-T-613	12-P-613	16.5 (.650)	7.7 (.303)	
17.8 (.700)		17.2 (.675)	12-11-615-11	12-12-615-11	12-13-615-11	12-T-615	12-P-615	19.1 (.750)	5.2 (.203)	

12 Series Fast-Lead Screws

Receptacles · Medium

Material and Finish

Steel, zinc immersion coating or stainless steel

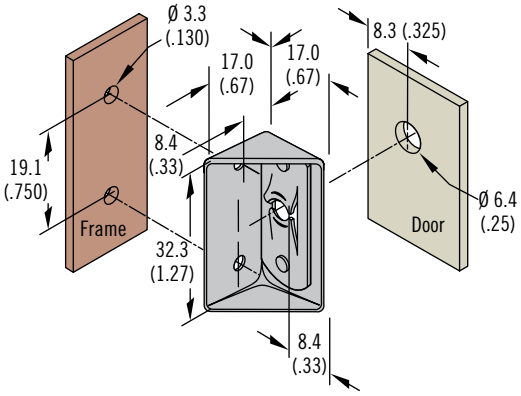
Side mount receptacle: 1064 steel, zinc immersion coating

Press-in receptacle: low carbon steel, case hardened and zinc plate, chromate plus sealer

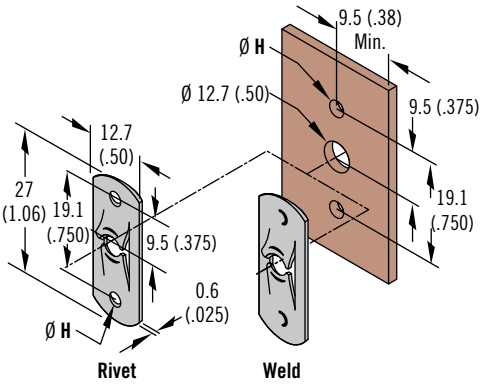
Installation Notes

See page 497 for self-clinching installation guidelines

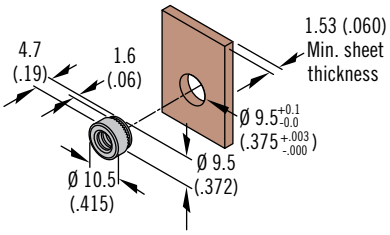
Side Mount Receptacle



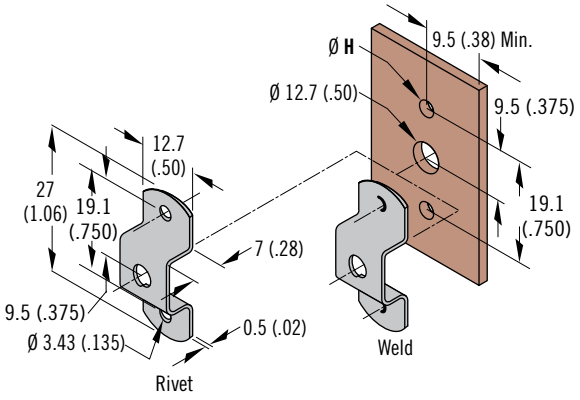
Flat Type Receptacle



Self-Clinching Receptacle Free Running



Saddle Type Receptacle



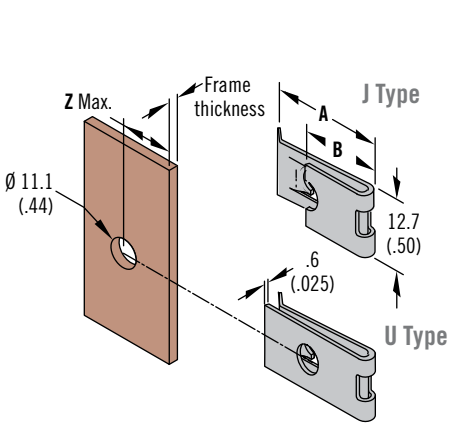
Part Number

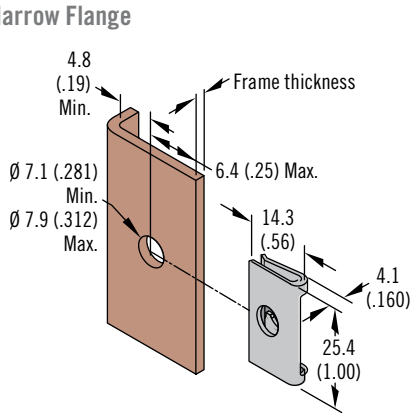
See table

Type	Ø H	Receptacle Part Number	
		Steel	Stainless steel
Side mount receptacle	~	12-90-101-10	~
Flat receptacle rivet	2.7 (.105)	12-11015-13	12-11015-14
	3.4 (.135)	12-11020-11	12-11020-13
Flat receptacle weld-on	~	~	12-11016-11
Press-in receptacle	~	12-44-101-11	~
Saddle receptacle rivet	3.4 (.135)	12-11043-11	12-11043-12
Saddle receptacle weld-on	~	~	12-11044-12

Dimensions in millimeters (inch) unless otherwise stated

Clip-On Type Receptacle



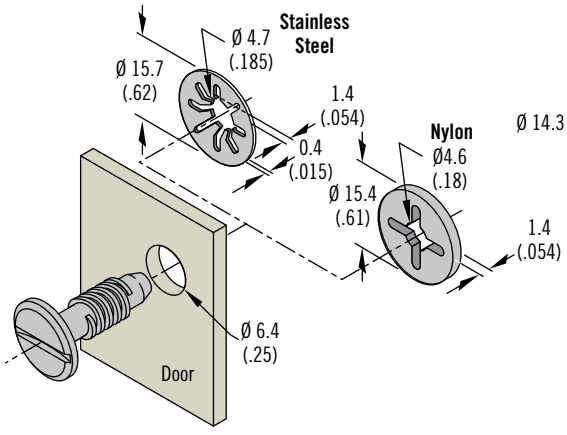


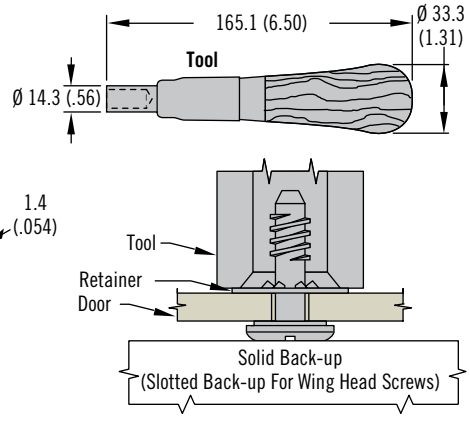
Type	Frame Thickness	A	B	Z Max.	Receptacle Part Number	
					Steel	Stainless steel
Clip-on receptacle - J	.8 (.031) to 2.8 (.109)	24.8 (.98)	14.2 (.56)	12.7 (.50)	12-11025-11	~
Clip-on receptacle - U	.8 (.031) to 2.8 (.109)	25.9 (1.02)			12-11017-11	12-11017-12
	2.8 (.109)- 4.1 (.161)			11.9 (.47)	12-11027-11	~
	2.8 (.109)- 4.1 (.161)				~	12-11027-12
	4.1 (.161)- 5.5 (.213)	24.8 (.98)	13.5 (.53)	11.1 (.44)	12-11029-11	
	5.4 (.213)- 6.7 (.265)	24.5 (.97)	13.01 (.51)		12-11031-11	
Clip-on receptacle - Narrow flange	0.8 (.031)- 2.8 (.109)	~	~	~	12-11050-27	

Material and Finish
Steel, zinc immersion coating or stainless steel

Part Number
See table

Retainers





Retainer Style	Retainer Part Number	Tool Part Number
304 Stainless steel, passivated	12-6-1	12-0-20980-11
Nylon, black	12-11064-42	

Part Number
See table

17 Series Fast-Lead Screws

Studs · Large

Material and Finish

Low carbon steel, case hardened, zinc plated, chromate plus sealer or stainless steel

1. Determine your outer panel and frame thicknesses:
Outer panel P =
Frame thickness F =

2. Choose your receptacle

3. Choose the retainer style

4. Find the correct constant in table opposite using the receptacle and retainer selected

5. Add outer panel thickness (P), frame thickness (F), and the constant found in step 4 to determine your total material thickness (TMT)
TMT = P+F+Constant

6. Find the TMT value in the ranges given in Column 1 in the part number table

7. Confirm that the outer panel thickness P does not exceed the value given in Column 2. This will confirm that your retainer will install properly beyond the last thread and retain your screw to the outer panel

8. Going across the row in the part number table, find the part number that matches your desired head style

Notes

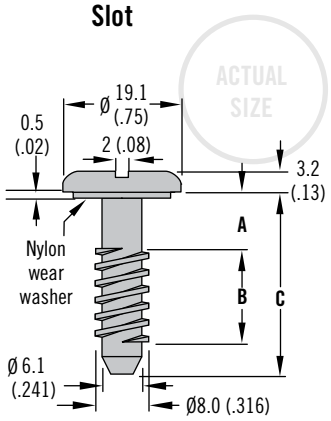
For full screw retraction, **B** must be less than inner panel thickness plus receptacle height

For stainless steel screw (slotted, wing and knurled ONLY) replace last 2 digits of part number with "12". Example: 17-11-104-12

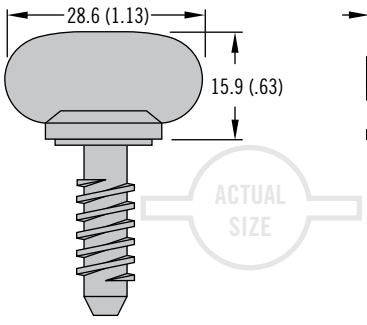
Part Number

See table

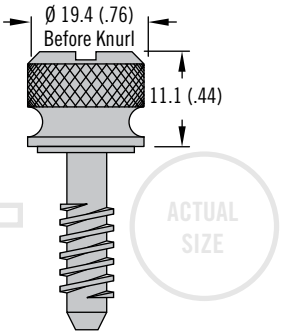
Slot



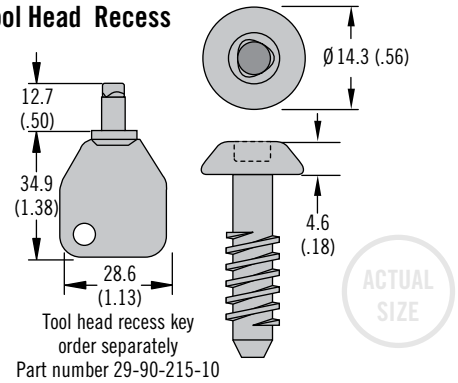
Wing Head



Knurled Head



Tool Head Recess



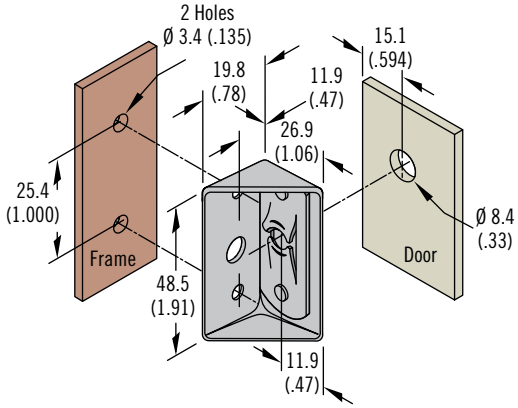
Tool head recess key order separately
Part number 29-90-215-10

Constant Table			
Retainer type	Receptacle Type		
	Flat	Clip	Side
Stainless steel	0.38 (.015)	2.2 (.086)	1.5 (.060)
Nylon	1.9 (.076)	3.5 (.137)	1.5 (.060)

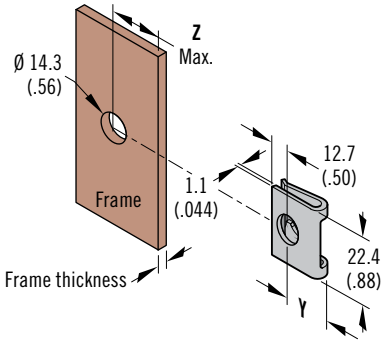
Column 1		Column 2	Screw Assembly Part Number				Dimensions		
TMT to be Fastened		Max.	Slotted	Wing	Knurled	Tool Head Recess	A	B	C
Min.	Max.								
2.5 (.100)	6.4 (.250)	3.1 (.120)	17-11-104-11	17-12-104-11	17-13-104-11	17-T-104	5.1 (.200)	9.1 (.360)	19.1 (.751)
5.1 (.200)		5.6 (.220)	17-11-106-11	17-12-106-11	17-13-106-11	17-T-106	7.6 (.300)	6.6 (.260)	
2.5 (.100)	9.5 (.375)	3.1 (.120)	17-11-204-11	17-12-204-11	17-13-204-11	17-T-204	5.1 (.200)	12.3 (.485)	22.3 (.876)
5.1 (.200)		5.6 (.220)	17-11-206-11	17-12-206-11	17-13-206-11	17-T-206	7.6 (.300)	9.8 (.385)	
7.6 (.300)		8.1 (.320)	17-11-208-11	17-12-208-11	17-13-208-11	17-T-208	10.2 (.400)	7.2 (.285)	
2.5 (.100)	12.7 (.500)	3.1 (.120)	17-11-304-11	17-12-304-11	17-13-304-11	17-T-304	5.1 (.200)	15.5 (.610)	25.4 (1.001)
5.1 (.200)		5.6 (.220)	17-11-306-11	17-12-306-11	17-13-306-11	17-T-306	7.6 (.300)	13 (.510)	
7.6 (.300)		8.1 (.320)	17-11-308-11	17-12-308-11	17-13-308-11	17-T-308	10.2 (.400)	10.4 (.410)	
10.2 (.400)		10.7 (.420)	17-11-310-11	17-12-310-11	17-13-310-11	17-T-310	12.7 (.500)	7.9 (.310)	
2.5 (.100)	15.9 (.625)	3.1 (.120)	17-11-404-11	17-12-404-11	17-13-404-11	17-T-404	5.1 (.200)	18.7 (.735)	28.6 (1.126)
5.1 (.200)		5.6 (.220)	17-11-406-11	17-12-406-11	17-13-406-11	17-T-406	7.6 (.300)	16.1 (.635)	
7.6 (.300)		8.1 (.320)	17-11-408-11	17-12-408-11	17-13-408-11	17-T-408	10.2 (.400)	13.6 (.535)	
10.2 (.400)		10.7 (.420)	17-11-410-11	17-12-410-11	17-13-410-11	17-T-410	12.7 (.500)	11.1 (.435)	
12.7 (.500)		13.2 (.520)	17-11-412-11	17-12-412-11	17-13-412-11	17-T-412	15.2 (.600)	8.5 (.335)	
15.2 (.600)		15.8 (.620)	17-11-414-11	17-12-414-11	17-13-414-11	17-T-414	17.8 (.700)	6.0 (.235)	

Dimensions in millimeters (inch) unless otherwise stated

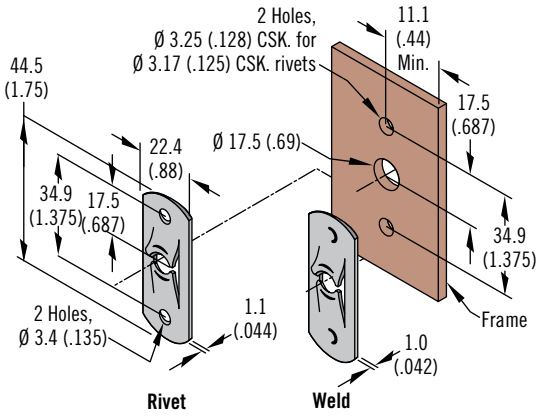
Side Mount Receptacle



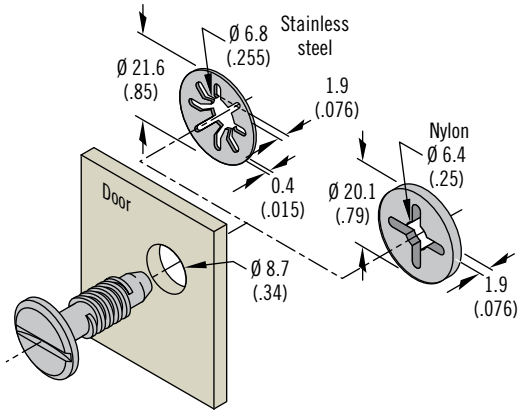
Clip-On Type Receptacle



Flat Type Receptacle



Retainers

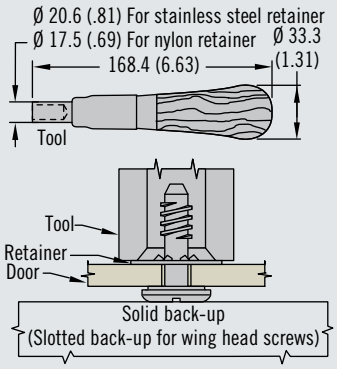


Material and Finish

Steel, zinc immersion coating or stainless steel

Type	Frame Thickness	Y	Z Max.	Receptacle Part Number	
				Steel	Stainless steel
Side mount receptacle	~	~	~	17-90-101-10	~
Clip-on type receptacle	1.1 - 2.4 (.045 - .093)	15.7 (.62)	15.0 (.59)	17-10017-11	~
	2.4 - 3.6 (.093 - .142)	14.7 (.58)	14.2 (.56)	17-10027-11	~
	3.6 - 4.9 (.142 - .191)	13.7 (.54)		17-10029-11	~
	4.9 - 6.1 (.191 - .240)	13.5 (.53)	13.5 (.53)	17-10031-11	~
	6.1 - 7.3 (.240 - .289)	13.0 (.51)	12.7 (.50)	17-10033-11	~
Flat type receptacle - Rivet	~	~	~	17-10015-13	17-10015-14
Flat type receptacle - Weld	~	~	~	17-10016-11	~

Retainer Style	Retainer Part Number	Tool Part Number
302 Stainless steel, passivated	17-6-1	17-0-24585-11
Nylon, black	17-10054-42	17-0-21333-11

Part Number

See table