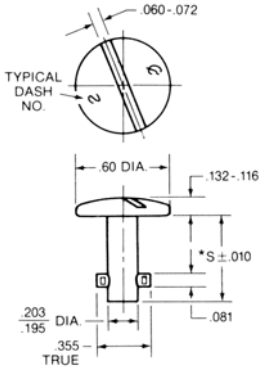
50F Series. General Purpose Stud Assemblies and Receptacles

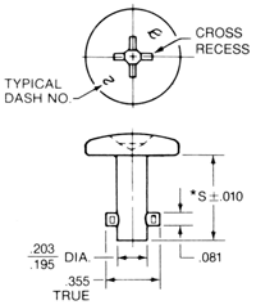
Features: Designed for use in agricultural, industrial, and similar environments where a simplified rugged design is desired. • Studs are retained with a snap-in grommet or with optional retaining ring.

• Receptacles install without rivets or special tools.
• Significantly improves assembly rates to provide lower installed costs.

Note: Part numbers shown are basic part numbers only. See ordering information on Page A-41 for required dash numbers.



Slotted Recess



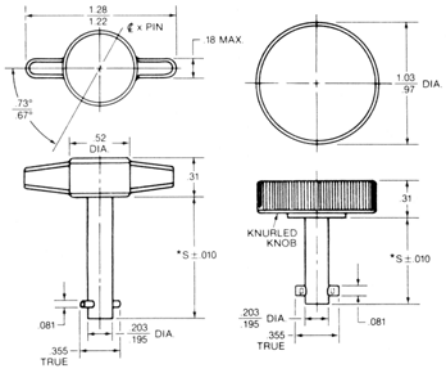
Cross Recess

Material	Part No.	Part No.
Stainless Steel (Passivated)	50S10-[ ]-1BB	50S10-[ ]-4BB
Steel (Zinc Plated, Clear Chromate)	50S10-[ ]-1AA	---

Maximum Service Temperature: 450°F., except when plastic snap-in grommets are used. These styles are limited to 250°F .

**S = .429 + (.024 x Dash No.)*

Plastic Knob Styles

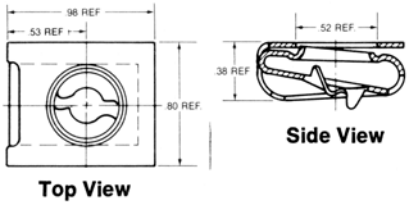


T-Knob **Knurled Knob**

	Basic Part Nos. Maximum Service Temperature: 250°F. Shank Material: Steel (Zinc Plated, Clear Chromate)			
	Black	Red	Grey	Beige
T-Knob	50S10-[ ]-6AC	50S10-[ ]-6AD	50S10-[ ]-6AE	50S10-[ ]-6AF
Knurled Knob	50S10-[ ]-7AC	50S10-[ ]7AD	50S10-[ ]-7AE	---

**S=.429 + (.024 x Dash No.)*

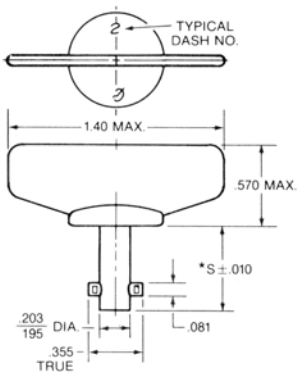
Clip-on Receptacle



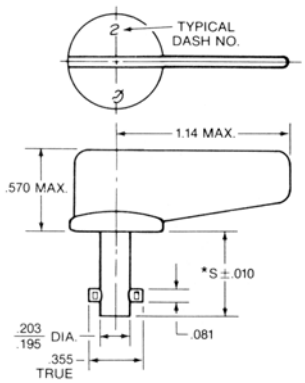
Top View **Side View**

Part No.	Material/Finish	Weight (per 100 pcs.) (lbs.)	Max Temp.
50R4-1-1AA	Steel (Cadmium Plated, Gold Chromate)	1.95	450°F.

QUICK OPERATING 1/4-TURN FASTENERS 50F SERIES



Fixed Wing



Fixed Offset Wing

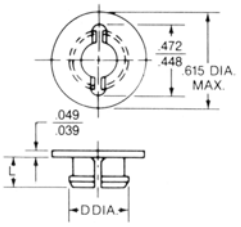
Part No.	Part No.
-	-
50S10-[ ] -2AA	50S10-[ ]-3AA

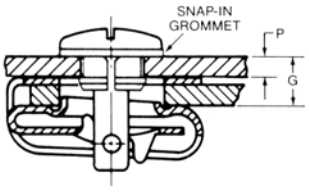
Specifications:

Ultimate Tensile Strength: 200 lbs.
Stud Grip Increments: 0236 inch (0.6 mm)
For optional styles, materials and finishes, contact the Camloc Products Division.

Plastic Snap-In Grommet

Order separately. Use to captivate stud assembly to panel. Eliminate need for retaining ring. Speeds assembly





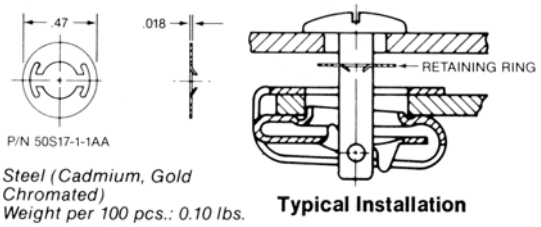
Typical Installation

Part No.	L Ref.	D Dia. Max.	P. Max.	G Min. (see note)	Weight (per 100 pcs.) (lbs.)
50S2-1-1AA	.140	.348	.062	.032	.035
50S12-1-1AA	.195	.390	.112	.094	.040
50S12-2-1AA	.245		.162	.144	
50S12-3-1AA	.295		.212	.194	
50S12-4-1AA	.345		.262	.244	

Notes: *1. Grommets will protrude from the back side of panel. Minimum "G" thickness must be observed to prevent grommets from jamming against the receptacle.*
2. Standard grommet color is white.

Retaining Ring

Order separately. Use to captivate stud assembly to panel in lieu of snap-in grommet.

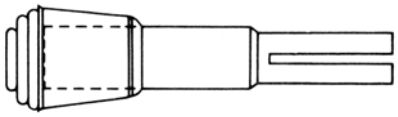


Steel (Cadmium, Gold Chromated)
Weight per 100 pcs.: 0.10 lbs.

Typical Installation

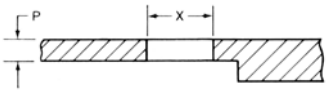
Retaining Ring Installation Tool

P/N T98-1



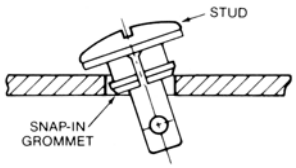
50F Series. Panel Preparation and Installation Data

For Studs used with Snap-in Grommets

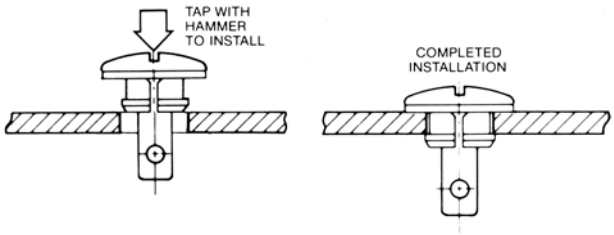


Determine panel thickness “P” and form through hole to corresponding “X” diameter. Panels with thicknesses greater than .262 inch must be back counterbored to a concentric diameter of .438 inch with a maximum remaining material thickness of .262 inch.

P	X
up to .062	.315-.320
.063-.162	.350-.355
.163-.262	.357-.362

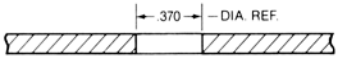


Assemble stud with grommet and insert stud through panel.

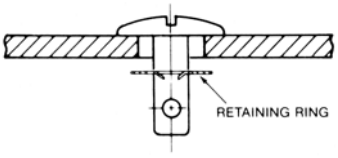


Tap stud with hammer to seat assembly into panel.

For Studs used with Retaining Rings

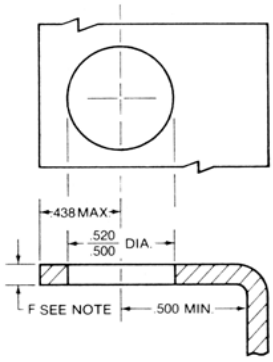


Form through hole to .370 inch diameter.



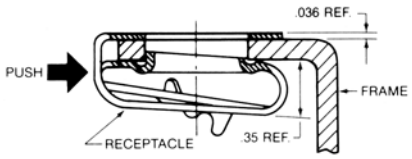
Insert stud through panel and attach retaining ring.

Frame Preparation for Receptacle Installation



Form .500-.520 through hole.

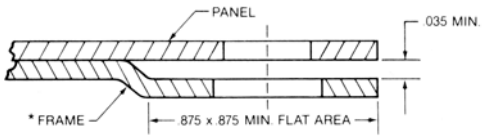
Important Note: Recommended “F” thickness range is .062-.188. The range can be extended to .032 to .219 at the extreme, however, installation problems may be encountered.



Slide receptacle onto frame and locate on through hole.

Recessed Frame

Standard installation (illustrated above) will cause a minimum gap of .035 inch between panel and frame due to receptacle protrusion. To eliminate gap, dimple frame to provide recess as shown.

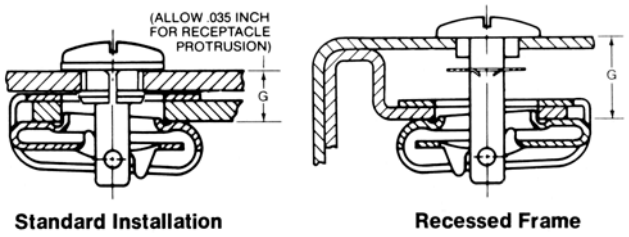


50F Series. Ordering Information/ Stud Dash Number Selection

A

To Select Stud Dash Number:

1. Determine “G” total thickness.
Note: Increase “G” to allow for thickness of paint or other finishes, and for the compressed thickness of any gasket.
2. Locate “G” in the table below
3. Then find the corresponding stud dash number in the column designated for the selected retention method.



Standard Installation **Recessed Frame**

How to Order:

Example 1.
(For stud assembly using retaining ring)
Study Assembly Used: 50S10-[?] -1AA
“G” Total Thickness = .155 inch
Stud Dash Number From Table = -7
Completed Part Number: 50S10-7-1AA

Example 2.
(For stud assembly using snap-in grommets)
Stud Assembly Used: 50S10-[?]-1AA
“G” Total Thickness = .155 inch
Stud Dash Number From Table = -9
Completed Part Number: 50S10-9-1AA (plus snap-in grommet selected)

Stud Dash Number Selection		
*G	Dash Number For Studs Used With Retaining Rings	Dash Numbers For Studs Used With Grommets
.055-.078	- 3	- 5
.079-.101	- 4	- 6
.102-.125	- 5	- 7
.126-.149	- 6	- 8
.150-.172	- 7	- 9
.173-.196	- 8	-10
.197-.220	- 9	-11
.221-.243	-10	-12
.244-.267	-11	-13
.268-.291	-12	-14

***Notes:** 1. If “G” total thickness is very near the top of the thickness range, selection of the next greater dash number is recommended. For “G” thickness greater than those tabulated, contact Camloc Products Division.*
2. Grip ranges are based on 0.6 mm increments converted to nearest thousandth of an inch.

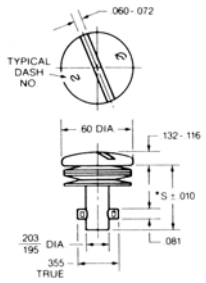
50F Series. Extra Heavy-Duty Stud Assemblies and Receptacles

Features: Rugged simplified design. * Particularly suited for use in adverse industrial and agricultural environments. * Utilizes belleville washers for high preloads and enhanced vibration resistance.

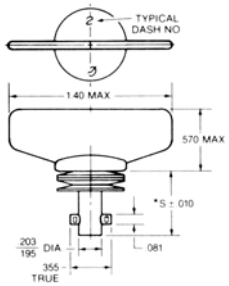
Specifications:

Ultimate Tensile Strength: 800 lbs.
Stud Grip Increments: .0236 inch (0.6 mm).

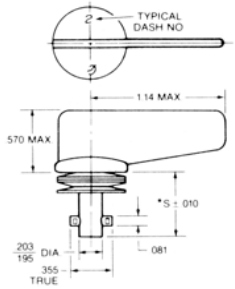
Note: Part numbers shown are basic part numbers only See ordering information on opposite page for required dash numbers.



Slotted Recess



Fixed Wing



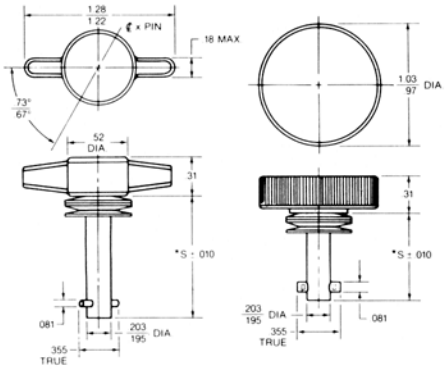
Offset Fixed Wing

Material	Part No.	Part No.	Part No.
Steel Stud (Zinc Plated, Clear Chromate) Washer (Cadmium Plated, Clear Chromate)	50S8-[ ] -1AA	50S8-[ ]-2AA	50S8-[ ]-3AA

Maximum Service Temperature:

**S = .429 + (.0236 x Dash No.)*

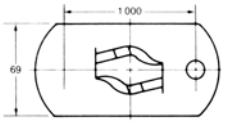
Plastic Knob Styles



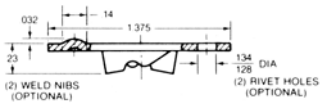
**S = .429 + (.0236 x Dash No.)*

	Basic Part Nos. Shank Material: Steel (Zinc Plated, Clear Chromate) Washer Material: Steel (Cadmium Plated, Clear Chromate)			
	Black	Red	Grey	Beige
T-Knob	50S8-[ ]-6AC	50S8-[ ]-6 AD	50S8-[ ]-6AE	50S8-[ ]-6 AF
Knurled Knob	50S8-[ ]-AC	50S8-[ ]-7AD	50S8-[ ]-7AE	-

Receptacles



Bottom View

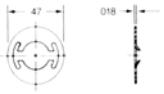


Side View

Material	Part No. (with rivet holes)	Part No. (with weld nibs)
Steel (Zinc Plated)	50R3-1-AA	-
Steel (Oil Coated)	-	50R3-1-2AB

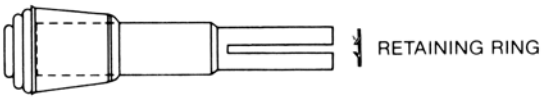
Weight per 100 pcs.: 1.43 lbs.

Snap-on Retaining Ring



Part No.	Material	Weight (per 100 pcs.) (lbs.)
50S17-1-1AA	Steel (Cadmium Plated, Gold Chromate)	0.10

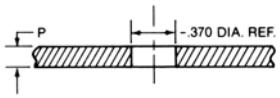
Retaining Ring Installation Tool T98-1



A

Panel Preparation and Installation Data

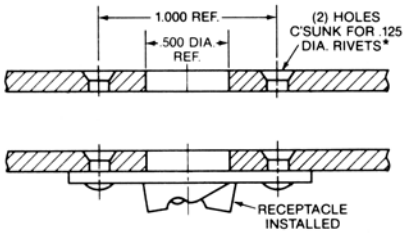
Panel Preparation for Stud Installation.



Form .370 Dia. through hole. Insert stud through panel and attach retaining ring.

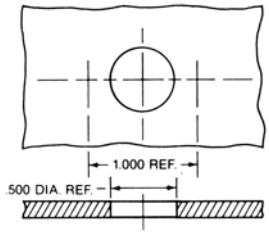
Panel Preparation for Receptacle Installation.

50R3-1-1AA Standard Mount



Drilled and countersunk rivet holes
**Rivets Not Furnished.*

50R3-1-2AB Weld Mount

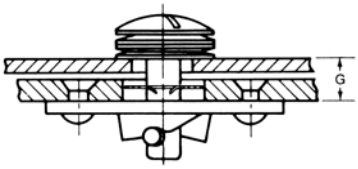


Form .500 inch through hole.
Locate receptacle on center and spot weld in place.

Ordering Information/ Stud Dash Number Selection

To Select Stud Dash Number.

1. Determine "G" thickness.
Note: Increase "G" to allow for thickness of paint or other finishes and for the compressed thickness of any gasket.
2. Locate "G" total thickness from the table below
3. Then find the corresponding stud dash number



How to Order:

Study Assembly Used: 50SB-[?]-1AA
"G" Total Thickness = .246 inch
Stud Dash Number From Table = -10
Complete Part Number: 50S8-10-1AA

Stud Dash Number Selection	
"G" Total Thickness	Dash Number
.020-.043	- 1
.044-.066	- 2
.067-.090	- 3
.091-.113	- 4
.114-.137	- 5
.138-.161	- 6
.162-.184	- 7
.185-.208	- 8
.209-.231	- 9
.232-.255	- 10

Important Note: *If the total thickness "G" is very near the top of the thickness range, selection of the next greater dash number is recommended. For "G" thickness longer than those tabulated, contact Camloc. Products Division.*