



D9 DZUS® Tech Line Quarter-Turn Fasteners

D9-47 Stud Assemblies · Press-in style

- Designed for hand operation
- Spring ejected
- Wide variety of receptacle options

Material and Finish

Stud and ferrule: Steel, hardened, zinc plated plus sealer
 Spring: Music wire, zinc plated
 Knob: Aluminum, natural or black powder coated

Installation Notes

1. Prepare panel as shown. Top edge of hole should be sharp.
2. Press stud assembly into panel until ferrule is installed as shown.
3. See page 627 for more installation guidelines.

Part Number

See table

Black Knob Option

For black powdered coated knob, add "000" to the part number.


Example:

D9-47-1301-K, natural
 D9-47-1301-K000, black

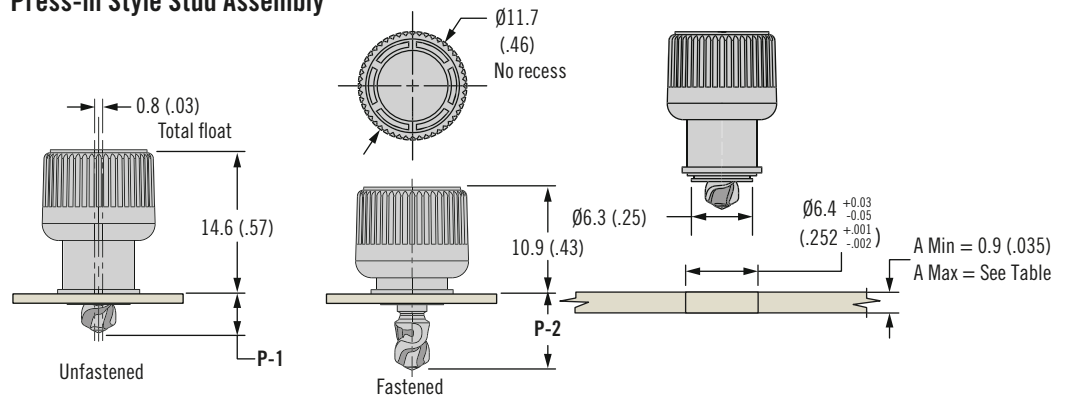
Receptacle Details

See page 471

Notes

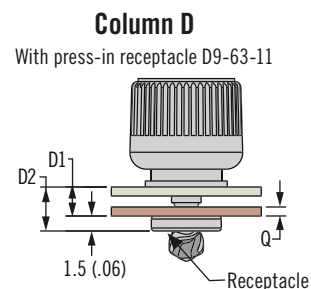
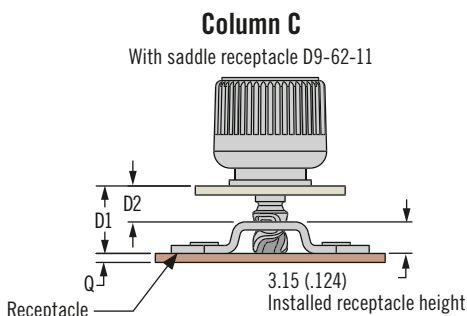
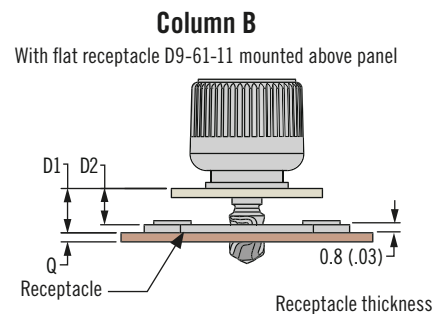
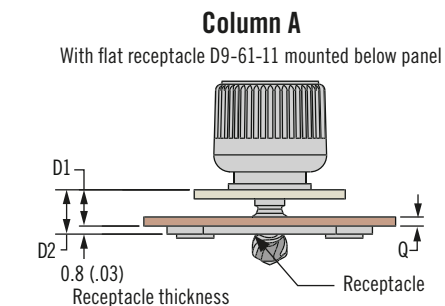
 To ensure you receive SOUTHCO® quality parts, look for the segmented circle.

Press-in Style Stud Assembly



Stud Length Table															
A			B			C			D			Stud Assemblies			
Flat receptacle D9-61-11 mounted below panel			Flat receptacle D9-61-11 mounted above panel			Saddle receptacle D9-62-11			Press-in receptacle D9-63-11						
TMT Range			TMT Range			TMT Range			TMT Range			P-1	P-2	Stud Length	Part Number
Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max				
2.1 (.08)	2.8 (.11)	3.0 (.12)	2.9 (.11)	3.6 (.14)	3.8 (.15)	5.3 (.21)	6.0 (.24)	6.2 (.24)	1.4 (.06)	2.1 (.08)	2.3 (.09)	4.6 (.18)	8.3 (.33)	1	D9-47-1301-K
3.1 (.12)	3.8 (.15)	4.0 (.16)	3.9 (.15)	4.6 (.18)	4.8 (.19)	6.3 (.25)	7.0 (.28)	7.2 (.28)	2.4 (.09)	3.1 (.12)	3.3 (.13)	5.6 (.22)	9.3 (.37)	2	D9-47-1302-K
4.1 (.16)	4.8 (.19)	5.0 (.20)	4.9 (.19)	5.6 (.22)	5.8 (.23)	7.3 (.29)	8.0 (.31)	8.2 (.32)	3.4 (.13)	4.1 (.16)	4.3 (.17)	6.6 (.26)	10.3 (.41)	3	D9-47-1303-K
5.1 (.20)	5.8 (.23)	6.0 (.24)	5.9 (.23)	6.6 (.26)	6.8 (.27)	8.3 (.33)	9.0 (.35)	9.2 (.36)	4.4 (.17)	5.1 (.20)	5.3 (.21)	7.6 (.30)	11.3 (.44)	4	D9-47-1304-K

Receptacle Types (Stud Assembly shown fastened for P-2 = 8.75 (.34) all views)
 Q = 0.9 (.035) MIN Frame (all receptacle views)



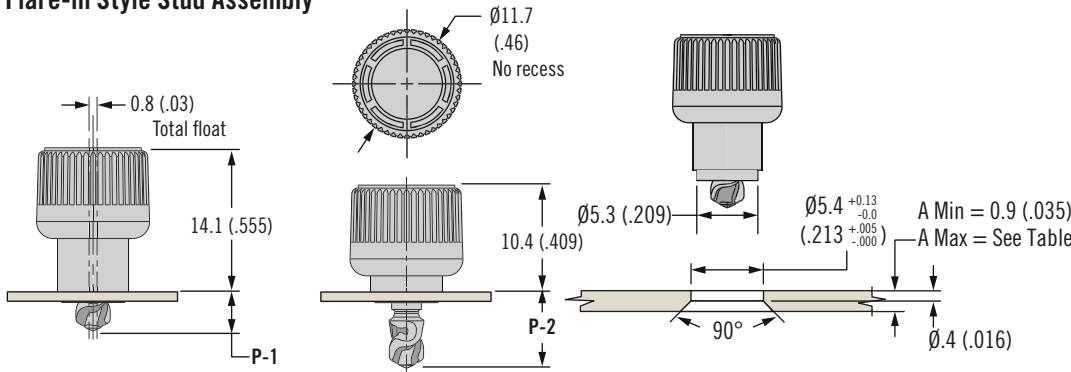
Dimensions in millimeters (inch) unless otherwise stated

D9 DZUS® Tech Line Quarter-Turn Fasteners

D9-47 Stud Assemblies · Flare-in style



Flare-in Style Stud Assembly

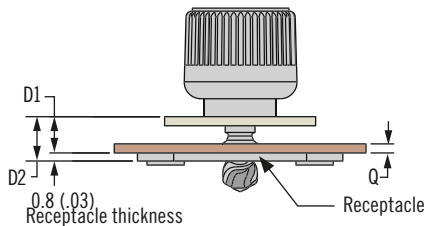


Stud Length Table															
A			B			C			D			Stud Assemblies			
Flat receptacle D9-61-11 mounted below panel			Flat receptacle D9-61-11 mounted above panel			Saddle receptacle D9-62-11			Press-in receptacle D9-63-11						
TMT Range			TMT Range			TMT Range			TMT Range			P-1	P-2	Stud Length	Part Number
Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max				
2.1 (.08)	2.8 (.11)	3.0 (.12)	2.9 (.11)	3.6 (.14)	3.8 (.15)	5.3 (.21)	6.0 (.24)	6.2 (.24)	1.4 (.06)	2.1 (.08)	2.3 (.09)	4.6 (.18)	8.3 (.33)	1	D9-47-3301-K
3.1 (.12)	3.8 (.15)	4.0 (.16)	3.9 (.15)	4.6 (.18)	4.8 (.19)	6.3 (.25)	7.0 (.28)	7.2 (.28)	2.4 (.09)	3.1 (.12)	3.3 (.13)	5.6 (.22)	9.3 (.37)	2	D9-47-3302-K
4.1 (.16)	4.8 (.19)	5.0 (.20)	4.9 (.19)	5.6 (.22)	5.8 (.23)	7.3 (.29)	8.0 (.31)	8.2 (.32)	3.4 (.13)	4.1 (.16)	4.3 (.17)	6.6 (.26)	10.3 (.41)	3	D9-47-3303-K
5.1 (.20)	5.8 (.23)	6.0 (.24)	5.9 (.23)	6.6 (.26)	6.8 (.27)	8.3 (.33)	9.0 (.35)	9.2 (.36)	4.4 (.17)	5.1 (.20)	5.3 (.21)	7.6 (.30)	11.3 (.44)	4	D9-47-3304-K

Receptacle Types (Stud Assembly shown fastened for P-2 = 9.3 (.366) all views)
 Q = 0.9 (.035) MIN Frame (all receptacle views)

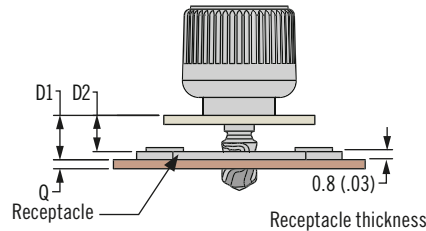
Column A

With flat receptacle D9-61-11 mounted below panel



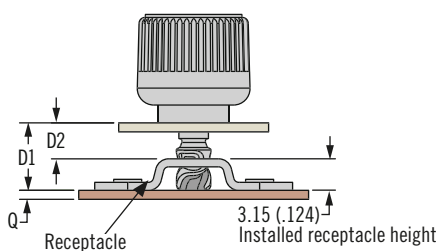
Column B

With flat receptacle D9-61-11 mounted above panel



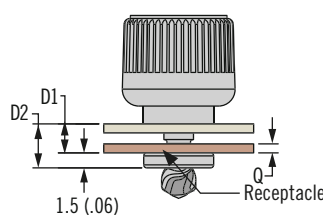
Column C

With saddle receptacle D9-62-11



Column D

With press-in receptacle D9-63-11



- Designed for hand operation
- Spring ejected
- Wide variety of receptacle options

Material and Finish

Stud: Steel, hardened, zinc plated plus sealer
 Spring: Music wire, zinc plated
 Knob: Aluminum, natural or black powder coated
 Ferrule: Aluminum, natural

Installation Notes

1. Drill then counter-sink panel as shown.
2. Insert stud assembly into prepared hole in panel and flare stand-off using tool 47-106. Use LIGHT pressure

Part Number

See table

Black Knob Option

For black powdered coated knob, add "000" to the part number.

Example:


D9-47-3301-K, natural

D9-47-3301-K000, black

Receptacle Details

See page 471

Notes

 To ensure you receive SOUTHCO® quality parts, look for the segmented circle.



D9 DZUS® Tech Line Quarter-Turn Fasteners

D9-47 Stud Assemblies · Surface Mount Technology (SMT) style

- Designed for hand operation
- Spring ejected
- Wide variety of receptacle options

Material and Finish

Stud: Steel, hardened, zinc plated plus sealer
 Spring: Music wire, zinc plated
 Knob: Aluminum, natural or black powder coated
 Retainer (not shown): Plastic
 Ferrule: Steel, tin plated

Installation Notes

Visit www.southco.com for additional installation guidelines

Part Number

See table

Black Knob Option

For black powdered coated knob, add "000" to the part number.

Example:

D9-47-2301-K-R, natural

D9-47-2301-K000-R, black

Specify Package Option

Package Details


Stud Assemblies shipped

in Reel Package

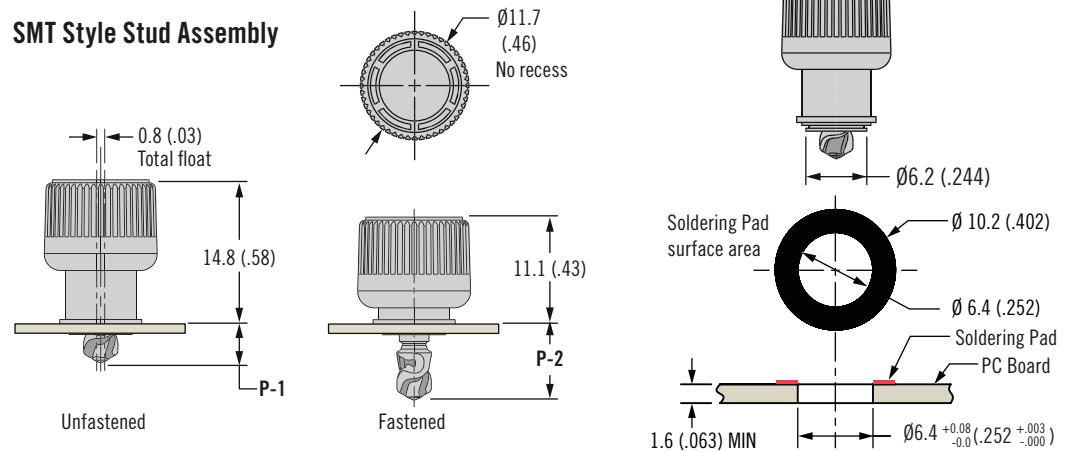
Receptacle Details

See page 471

Notes

 To ensure you receive **SOUTHCO®** quality parts, look for the segmented circle.

SMT Style Stud Assembly



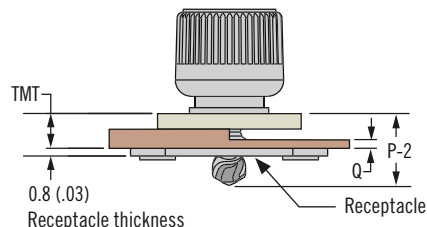
Stud Length Table															
A			B			C			D			Stud Assemblies			
Flat receptacle D9-61-11 mounted below panel			Flat receptacle D9-61-11 mounted above panel			Saddle receptacle D9-62-11			Press-in receptacle D9-63-11						
TMT Range			TMT Range			TMT Range			TMT Range						
Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max	P-1	P-2	Stud Length	Part Number
Stud length not viable			2.2 (.09)	2.9 (.11)	3.1 (.12)	4.55 (.18)	5.25 (.21)	5.45 (.21)	Stud length not viable			3.8 (.15)	7.45 (.29)	1	D9-47-2301-K-R
2.4 (.09)	3.1 (.12)	3.3 (.13)	3.2 (.13)	3.9 (.15)	4.1 (.16)	5.55 (.22)	6.25 (.25)	6.45 (.25)	Stud length not viable			4.8 (.19)	8.45 (.33)	2	D9-47-2302-K-R
3.4 (.13)	4.1 (.16)	4.3 (.17)	4.2 (.17)	4.9 (.19)	5.1 (.20)	6.55 (.26)	7.25 (.29)	7.45 (.29)	1.8 (.07)	2.5 (.10)	2.7 (.11)	5.8 (.23)	9.45 (.37)	3	D9-47-2303-K-R
4.4 (.17)	5.1 (.20)	5.3 (.21)	5.2 (.20)	5.9 (.23)	6.1 (.24)	7.55 (.30)	8.25 (.32)	8.45 (.33)	2.8 (.11)	3.5 (.14)	3.7 (.15)	6.8 (.27)	10.45 (.41)	4	D9-47-2304-K-R

Receptacle Types (Stud Assembly shown fastened for P-2 = 8.45 (.333) all views)

Q = 0.9 (.035) MIN Frame (all receptacle views)

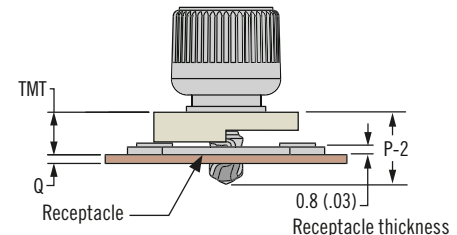
Column A

With flat receptacle D9-61-11 mounted below panel



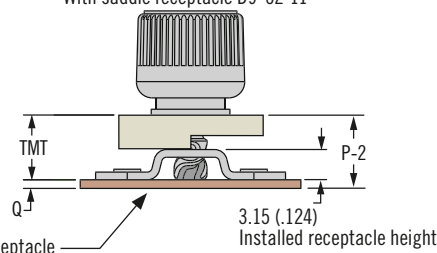
Column B

With flat receptacle D9-61-11 mounted above panel



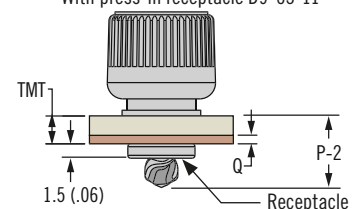
Column C

With saddle receptacle D9-62-11



Column D

With press-in receptacle D9-63-11

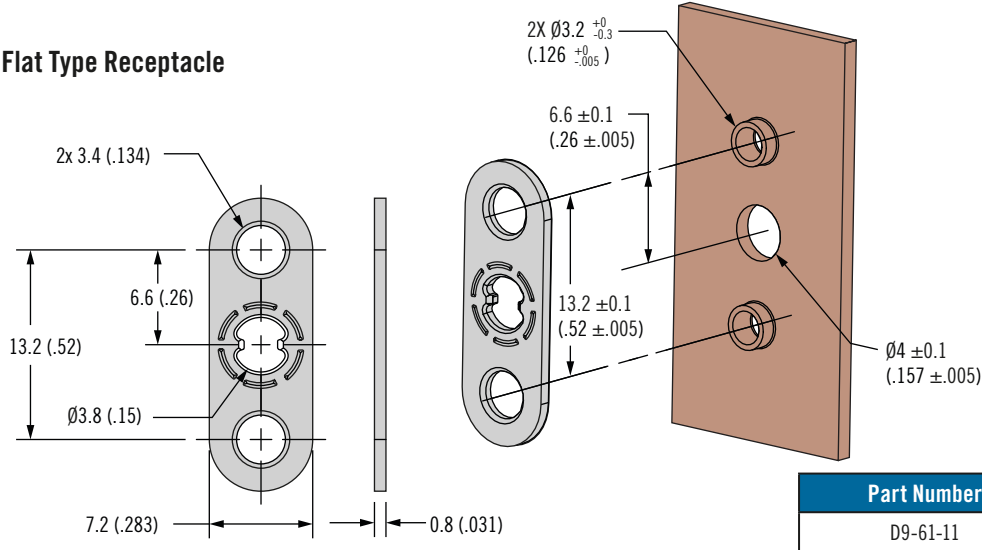


Dimensions in millimeters (inch) unless otherwise stated

D9 DZUS® Tech Line Quarter-Turn Fasteners Receptacles



Flat Type Receptacle



Part Number
D9-61-11

Material and Finish

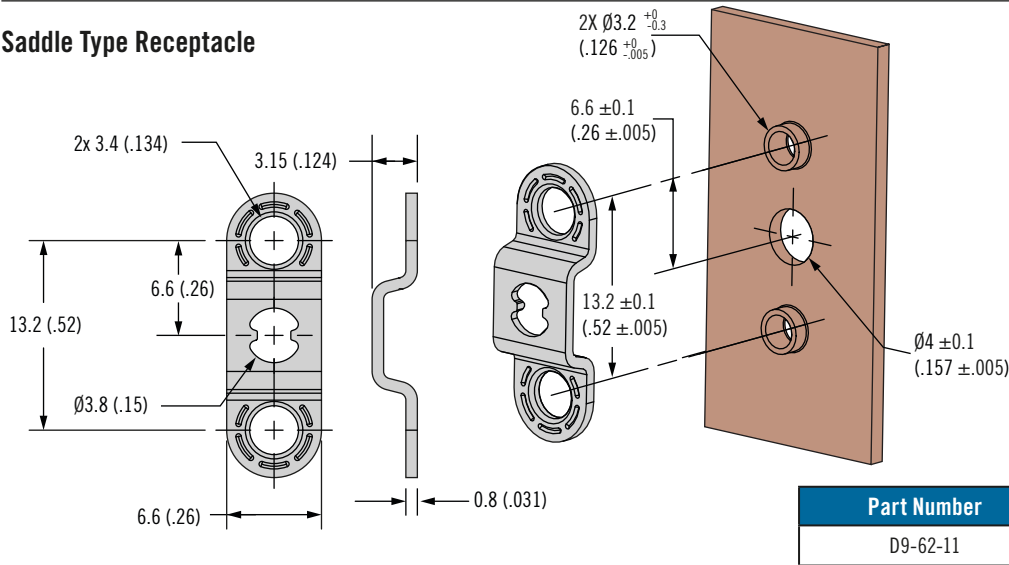
Steel, zinc plate

Suitable for use with all assembly styles and stud lengths

Part Number

See table

Saddle Type Receptacle



Part Number
D9-62-11

Material and Finish

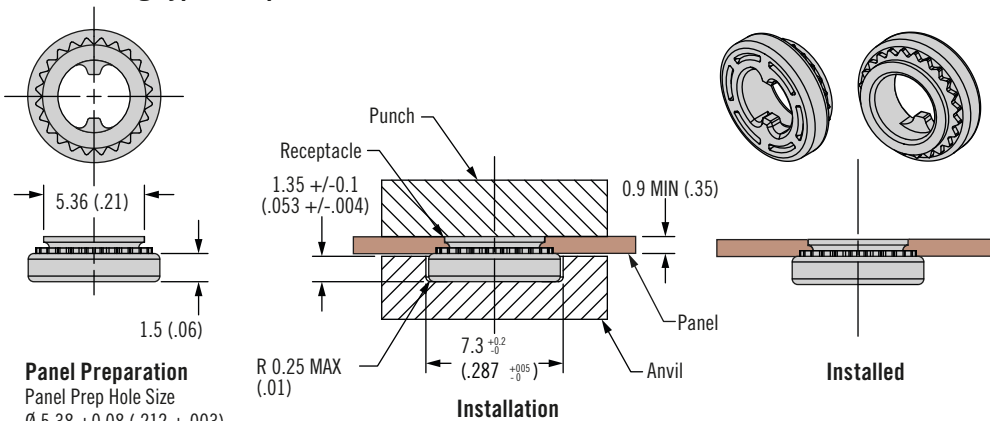
Steel, zinc plate

Suitable for use with all assembly styles and stud lengths

Part Number

See table

Self-Clinching Type Receptacle



Panel Preparation
Panel Prep Hole Size
Ø 5.38 ± 0.08 (.212 ± 0.003)

Part Number
D9-63-11

Material and Finish

Steel, zinc plate plus sealer

Installation Notes

1. Drill or punch panel prep hole.
 2. Place receptacle into anvil and put panel over lip of receptacle
 3. While keeping punch and anvil parallel, apply force until shoulder of receptacle contacts panel.
- Recommended load of 13,400 N (3000 lbf) for steel, Rb 70 max, 11,200 N (2500 lbf) for aluminum

Part Number

See table



D9 DZUS® Tech Line Quarter-Turn Fasteners

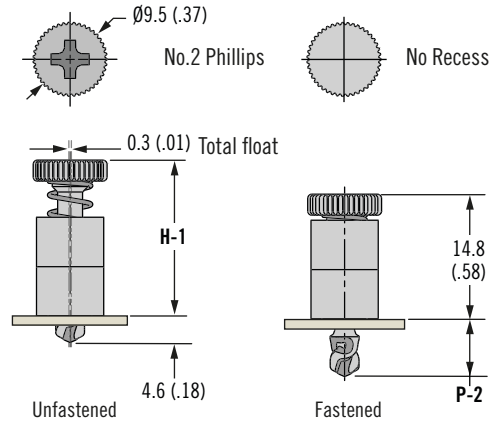
D9-52 Stud Assemblies · Press-in style

- Designed for hand or tool operation
- Spring ejected
- Wide variety of receptacle options
- Designate access points with color

Material and Finish

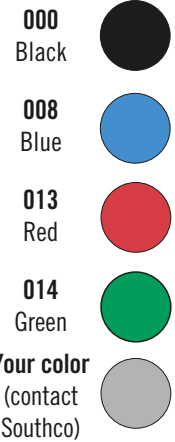
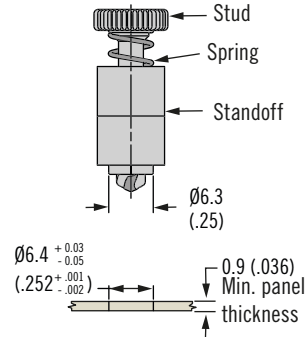
Stud: Hardened carbon steel, zinc plated, chromate, plus sealer
 Spring: Music wire, zinc plated
 Standoff: Carbon steel, zinc plated, chromate, plus sealer
 Prism: PC/ABS

Press-in Style Stud Assembly



Installation

Bright or Prism



Stud Length Table

A		B			C			D			Stud Assemblies						
Flat receptacle D9-61-11 mounted below panel			Flat receptacle D9-61-11 mounted above panel			Saddle receptacle D9-62-11			Press-in receptacle D9-63-11			Part Number, Press-in					
TMT Range			TMT Range			TMT Range			TMT Range			P-2	H-1	Bright Head		Prism Head	
Min	Nomi-nal	Max	Min	Nomi-nal	Max	Min	Nomi-nal	Max	Min	Nomi-nal	Max			No Recess	Phillips Recess	No Recess	Phillips Recess
2.1 (.08)	2.8 (.11)	3.0 (.12)	2.9 (.11)	3.6 (.14)	3.8 (.15)	5.3 (.21)	6.0 (.24)	6.2 (.24)	1.4 (.06)	2.1 (.08)	2.3 (.09)	8.3 (.33)	18.5 (.73)	D9-52-1301-K	D9-52-1311-K	D9-52-1301-K000	D9-52-1311-K000
3.1 (.12)	3.8 (.15)	4.0 (.16)	3.9 (.15)	4.6 (.18)	4.8 (.19)	6.3 (.25)	7.0 (.28)	7.2 (.28)	2.4 (.09)	3.1 (.12)	3.3 (.13)	9.3 (.37)	19.5 (.77)	D9-52-1302-K	D9-52-1312-K	D9-52-1302-K000	D9-52-1312-K000
4.1 (.16)	4.8 (.19)	5.0 (.20)	4.9 (.19)	5.6 (.22)	5.8 (.23)	7.3 (.29)	8.0 (.31)	8.2 (.32)	3.4 (.13)	4.1 (.16)	4.3 (.17)	10.3 (.41)	20.5 (.81)	D9-52-1303-K	D9-52-1313-K	D9-52-1303-K000	D9-52-1313-K000
5.1 (.20)	5.8 (.23)	6.0 (.24)	5.9 (.23)	6.6 (.26)	6.8 (.27)	8.3 (.33)	9.0 (.35)	9.2 (.36)	4.4 (.17)	5.1 (.20)	5.3 (.21)	11.3 (.44)	21.5 (.85)	D9-52-1304-K	D9-52-1314-K	D9-52-1304-K000	D9-52-1314-K000

Q=0.9 (.035) MIN Frame Thickness (All receptacle views)

Installation notes:

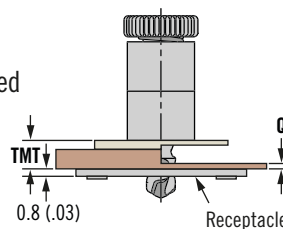
1. Prepare panel as shown. Top edge of hole should be sharp.
2. Press stud assembly into panel until Standoff is installed as shown.
3. See page 627 for more installation guidelines.

Specifying Prism Color:

To indicate color, change the last three digits of the part number. Example D9-52-1301-K000, black, D9-52-1301-K013, red Receptacle Details See page 471

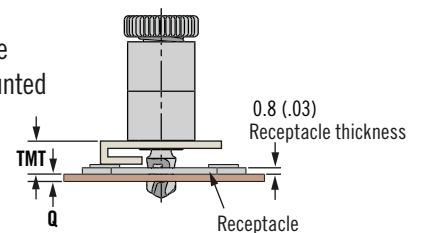
Column A

Flat receptacle D9-61-11 mounted below panel



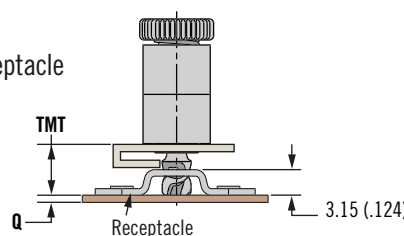
Column B

Flat receptacle D9-61-11 mounted above panel



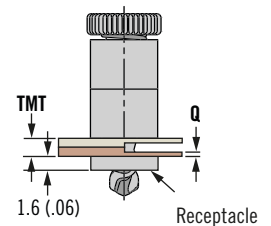
Column C

Saddle receptacle D9-62-11



Column D

Press-in receptacle D9-63-11

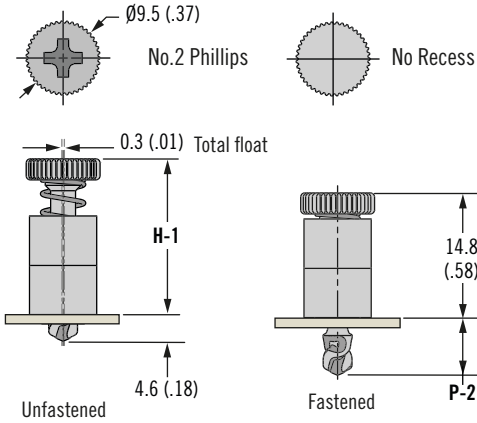


D9 DZUS® Tech Line Quarter-Turn Fasteners

D9-52 Stud Assemblies · Flare-in Style

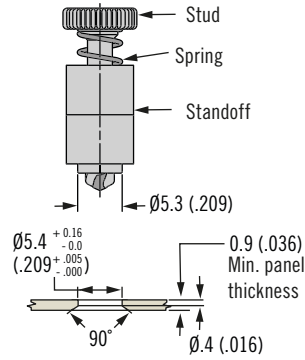


Flare-in Style Stud Assembly



Installation

Bright or Prism



- 000** Black
- 008** Blue
- 013** Red
- 014** Green
- Your color** (contact Southco)

- Designed for hand or tool operation
- Spring ejected
- Wide variety of receptacle options
- Designate access points with color

Material and Finish

Stud: Steel, hardened, zinc plated plus sealer
 Spring: Music wire, zinc plated
 Standoff: Aluminum, natural
 Prism: PC/ABS

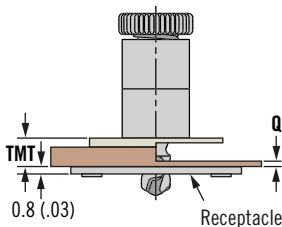
Stud Length Table

A			B			C			D			Stud Assemblies					
Flat receptacle D9-61-11 mounted below panel			Flat receptacle D9-61-11 mounted above panel			Saddle receptacle D9-62-11			Press-in receptacle D9-63-11			Part Number, Press-in					
TMT Range			TMT Range			TMT Range			TMT Range			P-2	H-1	Bright Head		Prism Head	
Min	Nominal	Max	Min	Nominal	Max	Min	Nominal	Max	Min	Nominal	Max			No Recess	Phillips Recess	No Recess	Phillips Recess
2.1 (.08)	2.8 (.11)	3.0 (.12)	2.9 (.11)	3.6 (.14)	3.8 (.15)	5.3 (.21)	6.0 (.24)	6.2 (.24)	1.4 (.06)	2.1 (.08)	2.3 (.09)	8.3 (.33)	18.5 (.73)	D9-52-3301-K	D9-52-3311-K	D9-52-3301-K000	D9-52-3311-K000
3.1 (.12)	3.8 (.15)	4.0 (.16)	3.9 (.15)	4.6 (.18)	4.8 (.19)	6.3 (.25)	7.0 (.28)	7.2 (.28)	2.4 (.09)	3.1 (.12)	3.3 (.13)	9.3 (.37)	19.5 (.77)	D9-52-3302-K	D9-52-3312-K	D9-52-3302-K000	D9-52-3312-K000
4.1 (.16)	4.8 (.19)	5.0 (.20)	4.9 (.19)	5.6 (.22)	5.8 (.23)	7.3 (.29)	8.0 (.31)	8.2 (.32)	3.4 (.13)	4.1 (.16)	4.3 (.17)	10.3 (.41)	20.5 (.81)	D9-52-3303-K	D9-52-3333-K	D9-52-3303-K000	D9-52-3333-K000
5.1 (.20)	5.8 (.23)	6.0 (.24)	5.9 (.23)	6.6 (.26)	6.8 (.27)	8.3 (.33)	9.0 (.35)	9.2 (.36)	4.4 (.17)	5.1 (.20)	5.3 (.21)	11.3 (.44)	21.5 (.85)	D9-52-3304-K	D9-52-3314-K	D9-52-3304-K000	D9-52-3314-K000

Q=0.9 (.035) MIN Frame Thickness (All receptacle views)

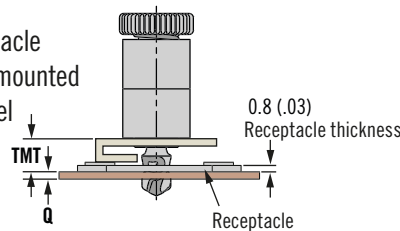
Column A

Flat receptacle D9-61-11 mounted below panel



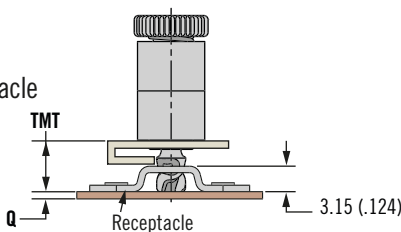
Column B

Flat receptacle D9-61-11 mounted above panel



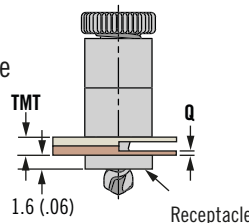
Column C

Saddle receptacle D9-62-11



Column D

Press-in receptacle D9-63-11



Installation notes:

1. Drill then counter-sink panel as shown.
2. Insert stud assembly into prepared hole in panel and flare stand-off using tool 47-106. Use LIGHT pressure

Specifying Prism Color:

To indicate color, change the last three digits of the part number. Example D9-52-1311-K000, black, D9-52-1311-K013, red
 Receptacle Details See page 471



D9 - *DZUS*[®] Tech Line Quick Access Fasteners

D9-PR PCI Riser Cage Fastener Assembly

- Designed for 2U Servers
- Hand operation
- Spring ejected
- Wide variety of receptacle options

Fastener Assembly Material and Finish

Cap: UL94-V0 PA6
 Assembly Cover: PC-ABS, black
 Pin, Washer: Stainless steel,
 passivate Lower Stud, Bracket, Clip:
 Steel, zinc plate Rotation Limiter,
 Upper Stud: Zinc alloy, chromate
 sealer

Installation Notes

Maximum installation torque
 of mounting screws to attach
 assembly covers
 0.7 Nm (6 in-lbs) using M3 screws.

Performance Details

Maximum torque to be applied to
 cap is 1.1 Nm (10 in-lbs)

Part Numbers

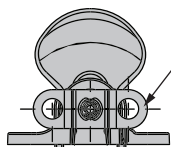
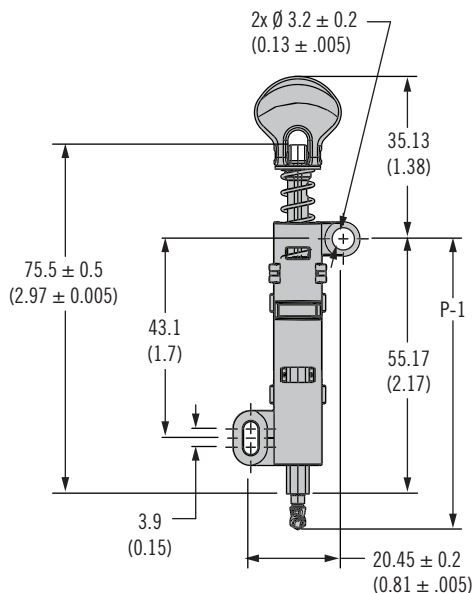
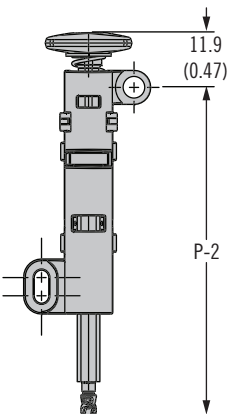
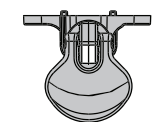
See tables

Receptacle Details

(order separately)

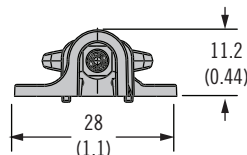
See page 471

Fastener Assembly



Fastened

Please note
 correct receptacle
 Orientation



Unfastened

To fasten, push on cap to place lower stud into receptacle and turn cap 180° and fold down.

Part Number	TMT	P-1	P-2	Cap Color
D9-PR-20-000	4.25	62.4 ± 1.2 (2.45 ± 0.04)	70.9 ± 1.2 (2.78 ± 0.04)	Black
D9-PR-20-072	(0.16)			Blue
D9-PR-21-000	4.45	62.6 ± 1.2 (2.46 ± 0.04)	71.1 ± 1.2 (2.79 ± 0.04)	Black
D9-PR-21-072	(0.17)			Blue
D9-PR-22-000	4.65	62.8 ± 1.2 (2.47 ± 0.04)	71.3 ± 1.2 (2.80 ± 0.04)	Black
D9-PR-22-072	(0.18)			Blue

TMT = Customer panel thickness + Customer PCB thickness + Southco receptacle thickness + Southco gasket compressed thickness (0.55 mm)

Gasket

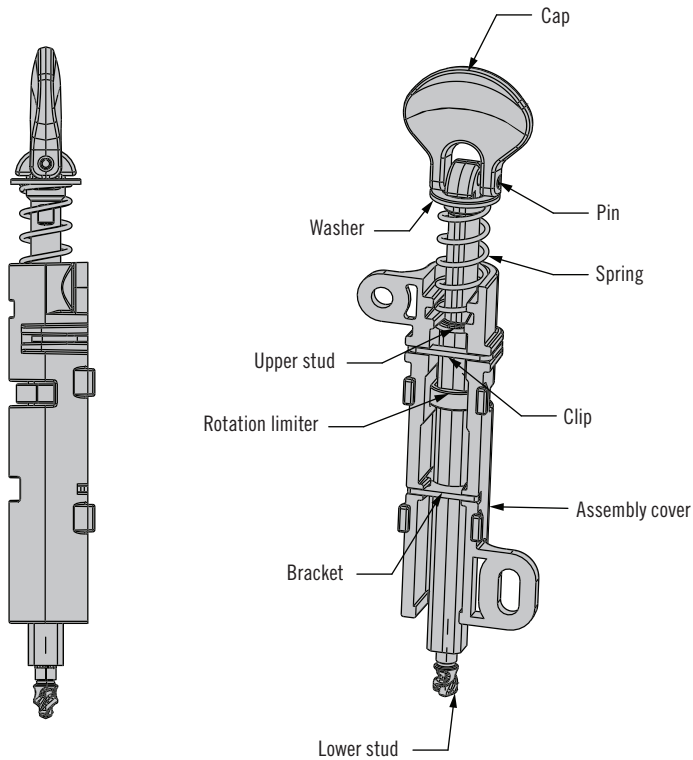
Part Number	Material	Color
D9-81 (order separately)	High density foam	Gray

D9 - *DZUS*[®] Tech Line Quick Access Fasteners

D9-PR PCI Riser Cage Fastener Assembly



473B



Panel Preparation

