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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

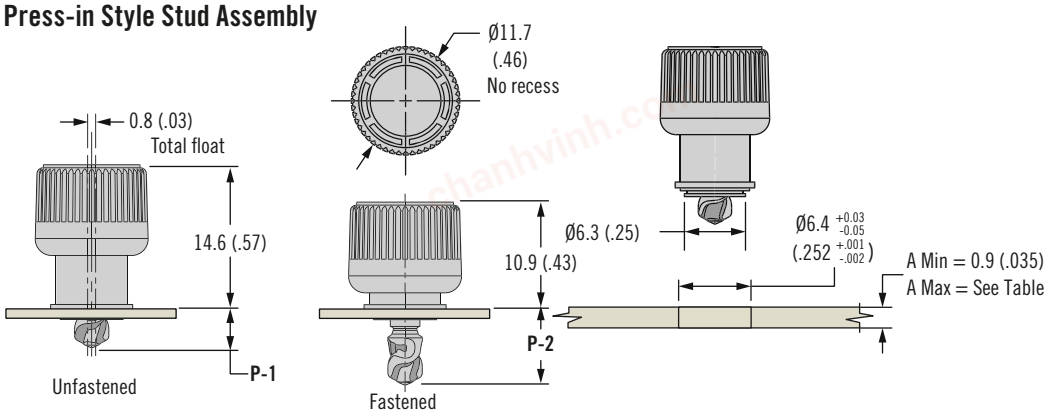
Receptacle Details

See page 471

Notes

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

Press-in Style Stud Assembly



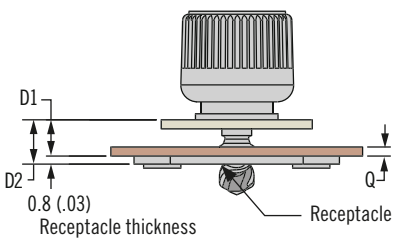
Stud Length Table

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						
Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max	P-1	P-2	Stud Length	Part Number
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)

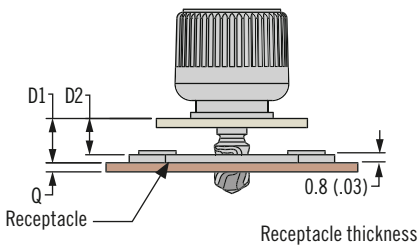
Column A

With flat receptacle D9-61-11 mounted below panel



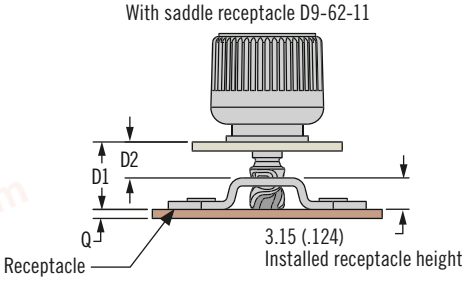
Column B

With flat receptacle D9-61-11 mounted above panel



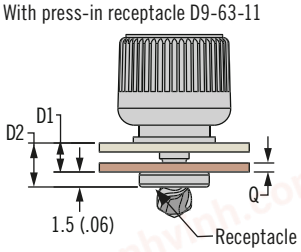
Column C

With saddle receptacle D9-62-11



Column D

With press-in receptacle D9-63-11



Dimensions in millimeters (inch) unless otherwise stated

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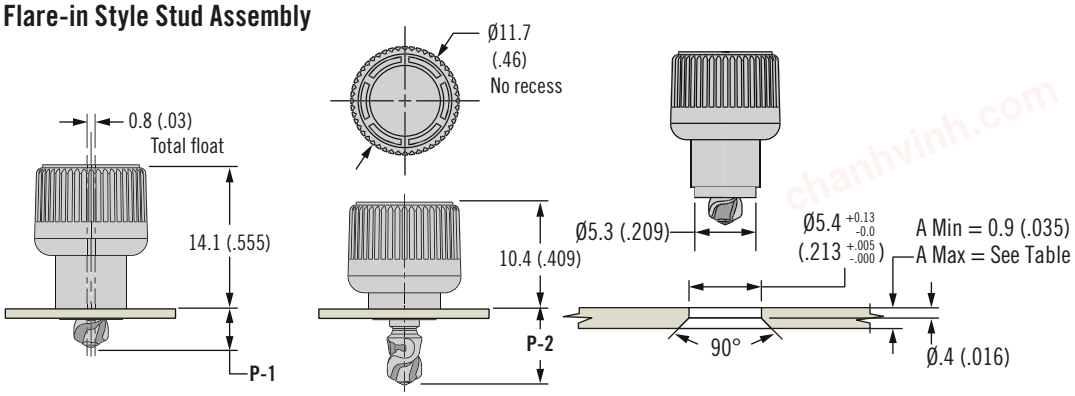
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D9 *DZUS*® Tech Line Quarter-Turn Fasteners

D9-47 Stud Assemblies · Flare-in style



Flare-in Style Stud Assembly

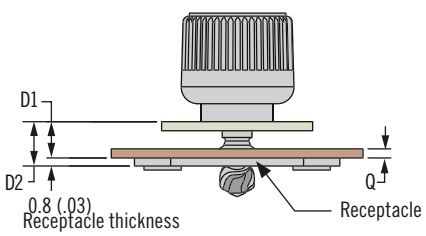


Stud Length Table															
A			B			C			D			Stud Assemblies			
Flat receptacle D9-61-11 mounted below panel			Flat receptacle D9-61-11 mounted above panel			Saddle receptacle D9-62-11			Press-in receptacle D9-63-11						
TMT Range			TMT Range			TMT Range			TMT Range						
Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max	Min	Nom-inal	Max	P-1	P-2	Stud Length	Part Number
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 Assemby shown fastened for P-2 = 9.3 (.366) all views)
Q = 0.9 (.035) MIN Frame (all receptacle views)

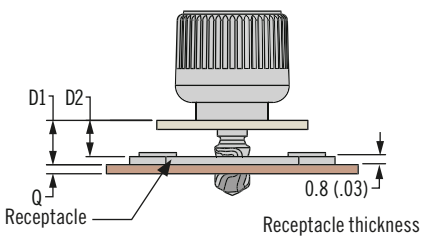
Column A

With flat receptacle D9-61-11 mounted below panel



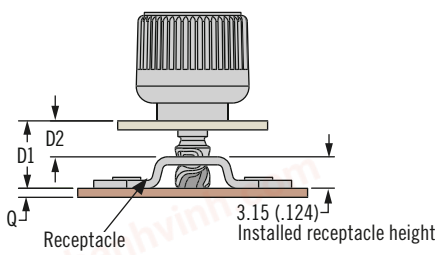
Column B

With flat receptacle D9-61-11 mounted above panel



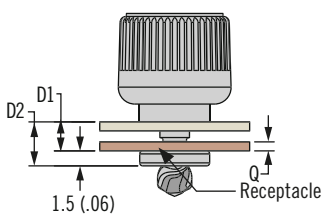
Column C

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.

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Dimensions in millimeters (inch) unless otherwise stated

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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

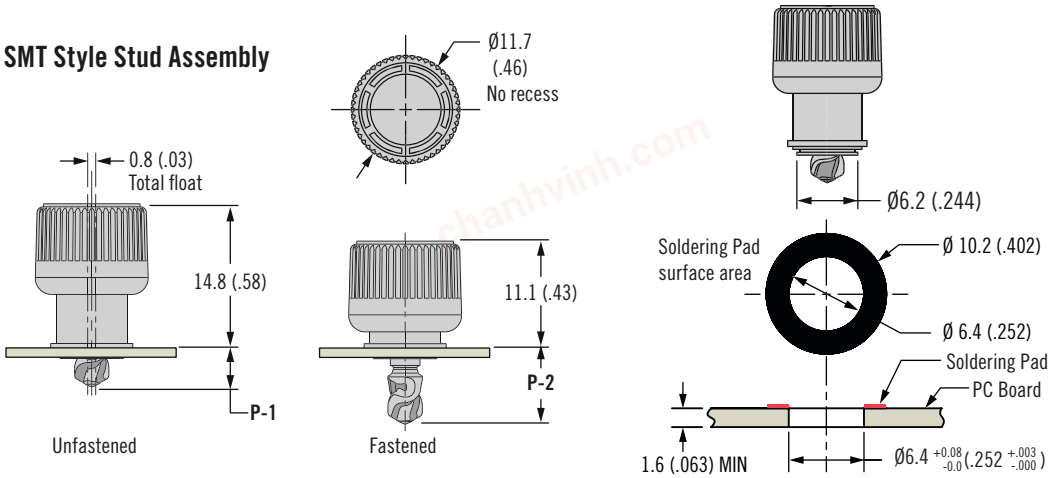
Receptacle Details

See page 471

Notes

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

SMT Style Stud Assembly

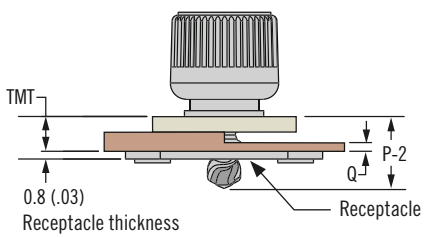


Stud Length Table															
A			B			C			D			Stud Assemblies			
Flat receptacle D9-61-11 mounted below panel			Flat receptacle D9-61-11 mounted above panel			Saddle receptacle D9-62-11			Press-in receptacle D9-63-11						
TMT Range			TMT Range			TMT Range			TMT Range						
Min	Nom-inal	Max	Min	Nom-inal	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 Assemby shown fastened for P-2 = 8.45 (.333) all views)
Q = 0.9 (.035) MIN Frame (all receptacle views)

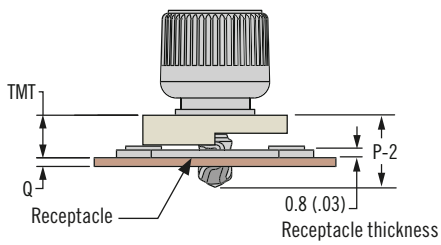
Column A

With flat receptacle D9-61-11 mounted below panel



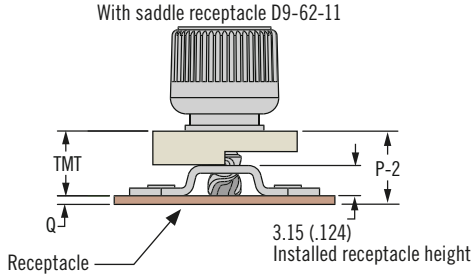
Column B

With flat receptacle D9-61-11 mounted above panel



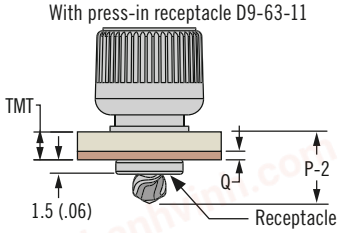
Column C

With saddle receptacle D9-62-11



Column D

With press-in receptacle D9-63-11



Dimensions in millimeters (inch) unless otherwise stated

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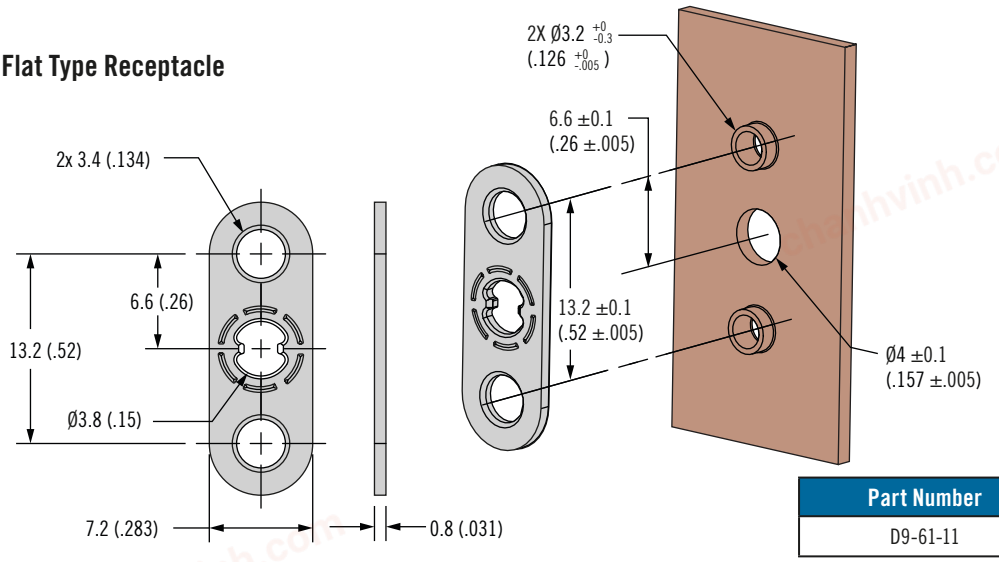
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D9 *DZUS*® Tech Line Quarter-Turn Fasteners

Receptacles



Flat Type Receptacle



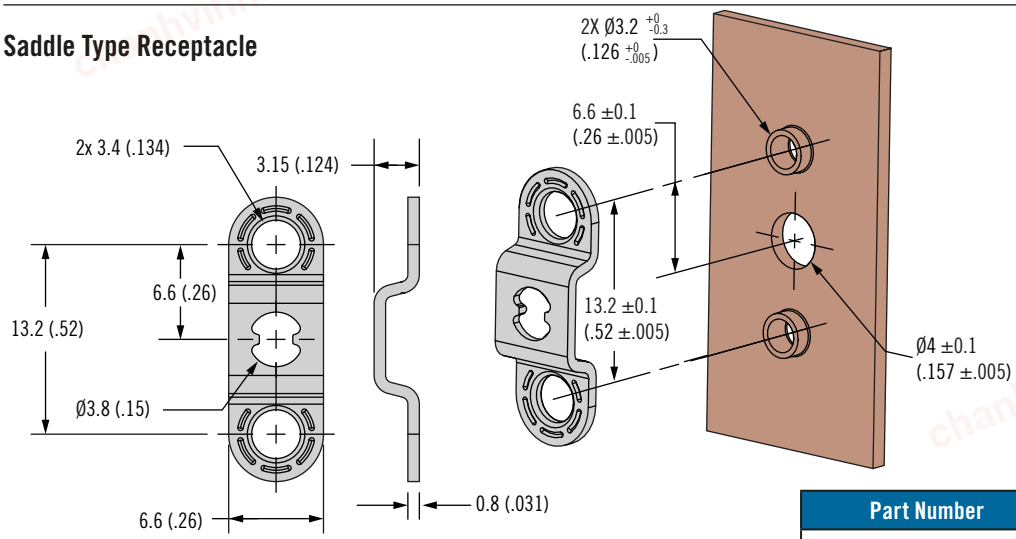
Part Number
D9-61-11

Material and Finish
Steel, zinc plate

Suitable for use with all assembly styles and stud lengths

Part Number
See table

Saddle Type Receptacle



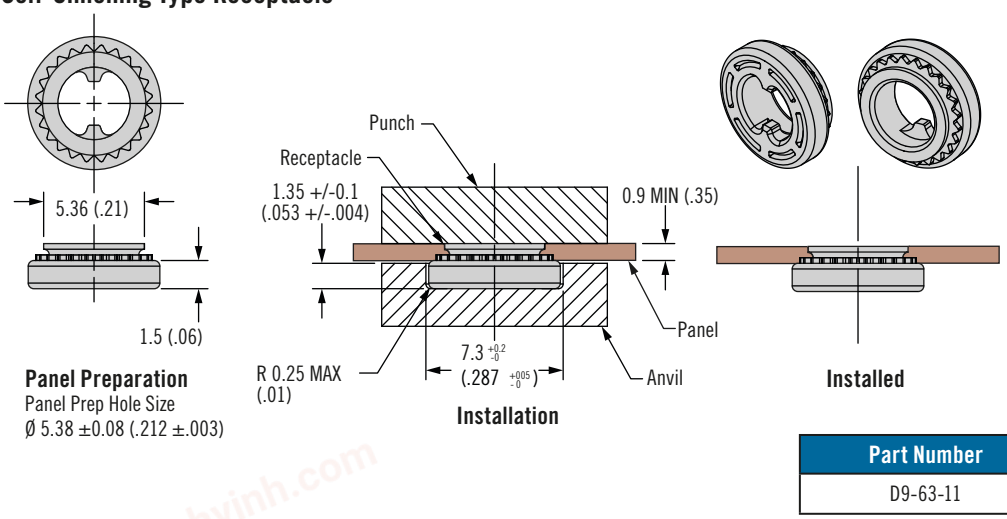
Part Number
D9-62-11

Material and Finish
Steel, zinc plate

Suitable for use with all assembly styles and stud lengths

Part Number
See table

Self-Clinching Type Receptacle



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

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D9 *DZUS*® Tech Line Quarter-Turn Fasteners

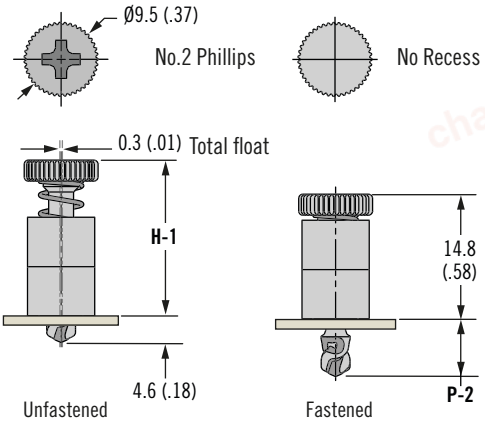
D9-52 Stud Assemblies · Press-in style

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

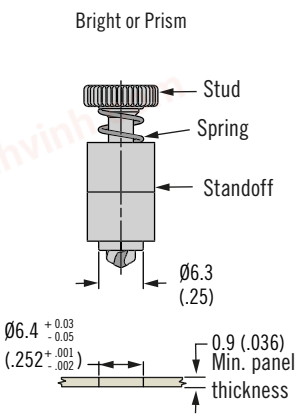
Material and Finish

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



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

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-2	H-1	Part Number, Press-in			
														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)

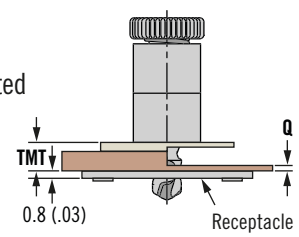
Installation notes:

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.

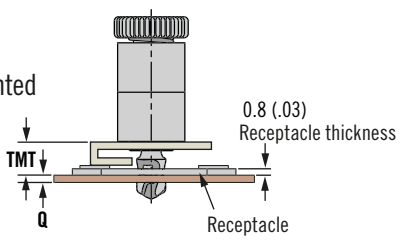
Specifying Prism Color:

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

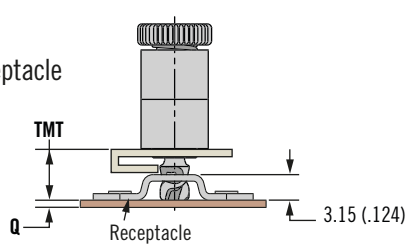
Column A
Flat receptacle
D9-61-11 mounted
below panel



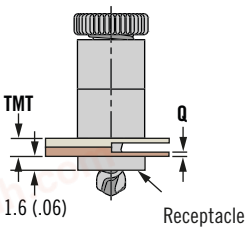
Column B
Flat receptacle
D9-61-11 mounted
above panel



Column C
Saddle receptacle
D9-62-11



Column D
Press-in receptacle
D9-63-11



Dimensions in millimeters (inch) unless otherwise stated

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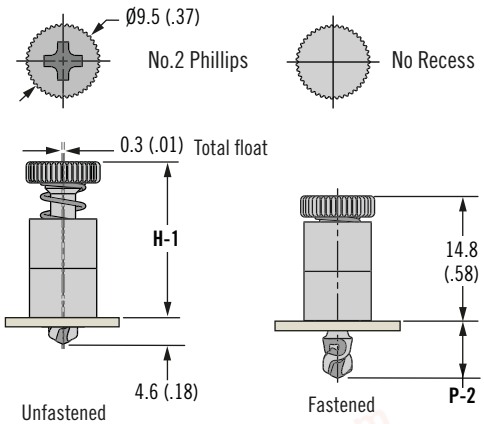
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D9 *DZUS*® Tech Line Quarter-Turn Fasteners

D9-52 Stud Assemblies · Flare-in Style

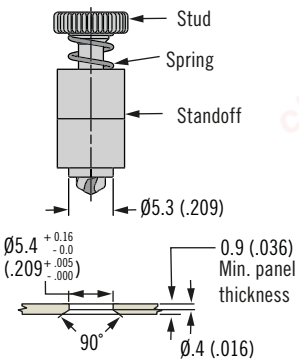


Flare-in Style Stud Assembly



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

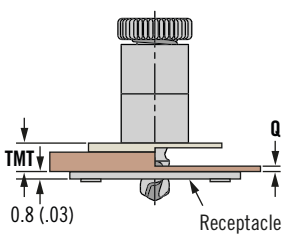
Stud: Steel, hardened, zinc plated plus sealer
Spring: Music wire, zinc plated
Standoff: Aluminum, natural
Prism: PC/ABS

Stud Length Table

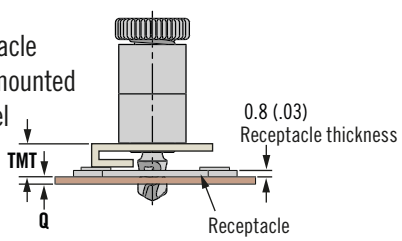
A			B			C			D			Stud Assemblies					
Flat receptacle D9-61-11 mounted below panel			Flat receptacle D9-61-11 mounted above panel			Saddle receptacle D9-62-11			Press-in receptacle D9-63-11								
TMT Range			TMT Range			TMT Range			TMT Range			P-2	H-1	Part Number, Press-in			
														Bright Head		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)	D9-52-3301-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)

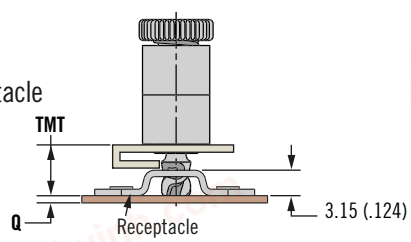
Column A
Flat receptacle
D9-61-11 mounted
below panel



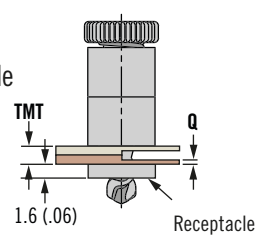
Column B
Flat receptacle
D9-61-11 mounted
above panel



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-K**000**, black,
D9-52-1311-K**013**, red
Receptacle Details See page 471

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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

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

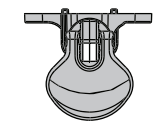
Part Numbers

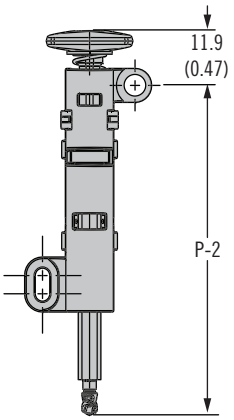
See tables

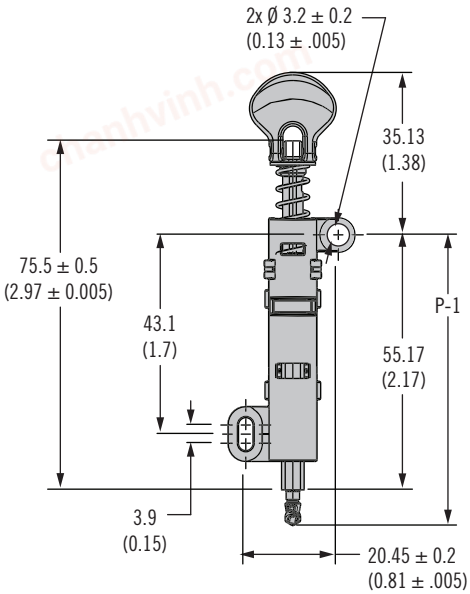
Receptacle Details

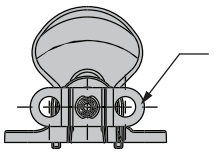
(order separately)
See page 471

Fastener Assembly

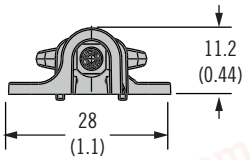








Fastened



Unfastened

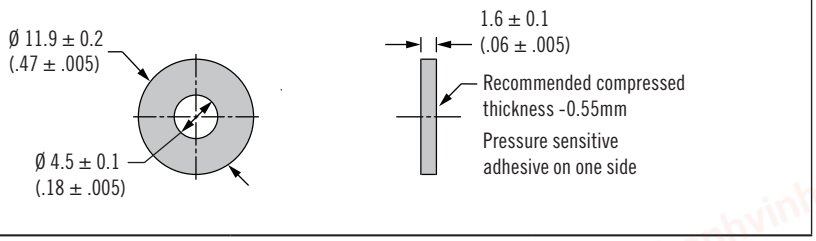
To fasten, push on cap to place lower stud into receptacle and turn cap 180° and fold down.

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



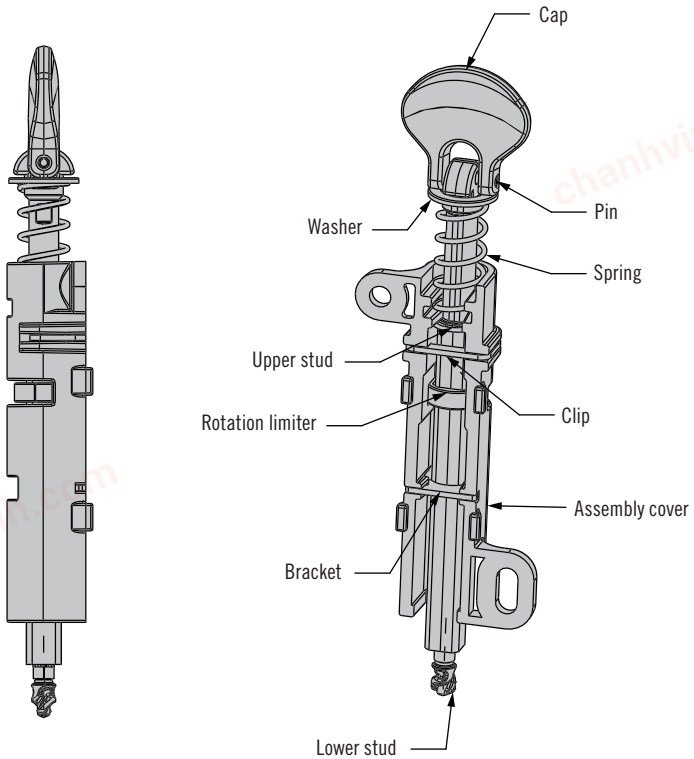
Dimensions in millimeters (inch) unless otherwise stated

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D9 - *DZUS*® Tech Line Quick Access Fasteners

D9-PR PCI Riser Cage Fastener Assembly





Panel Preparation

