

INCH-POUND

MIL-DTL-55302/182C  
23 January 2008  
SUPERSEDING  
MIL- DTL-55302/182B  
13 September 2002

DETAIL SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES:  
GUIDE PINS, JACKCREWS AND MOUNTING EARS

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and  
MIL-DTL-55302.

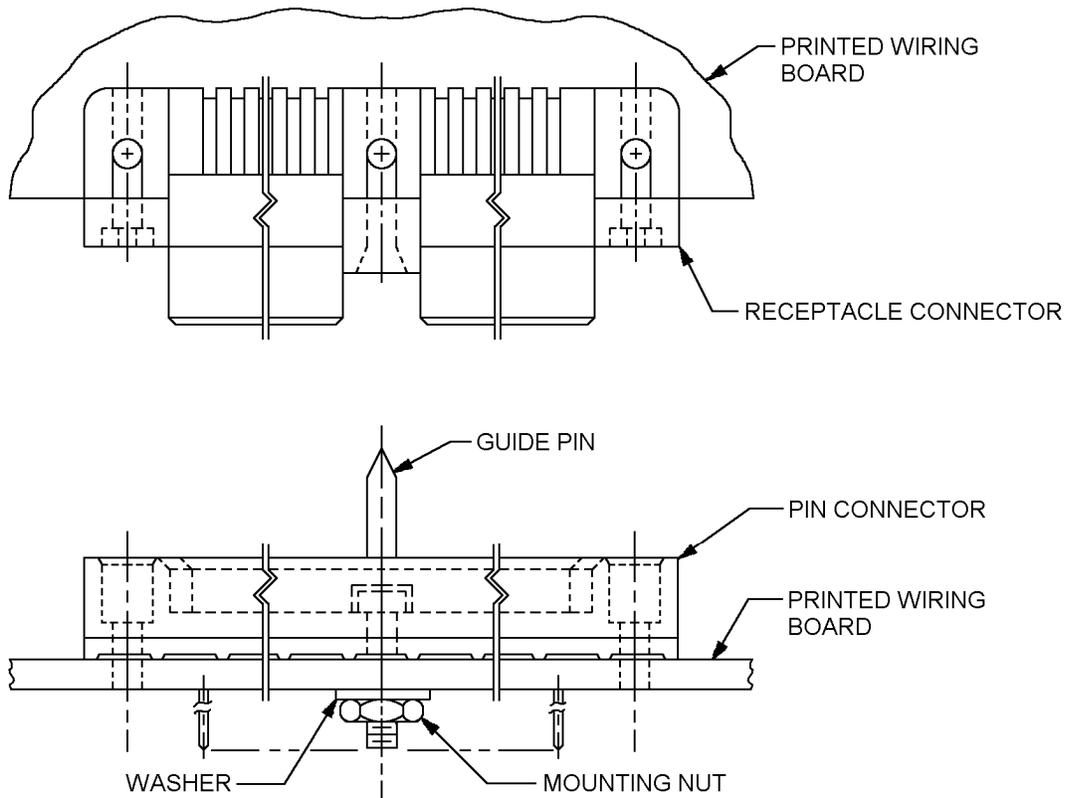
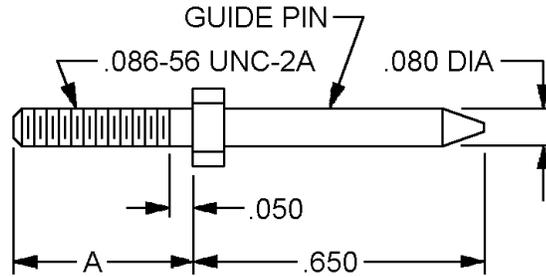


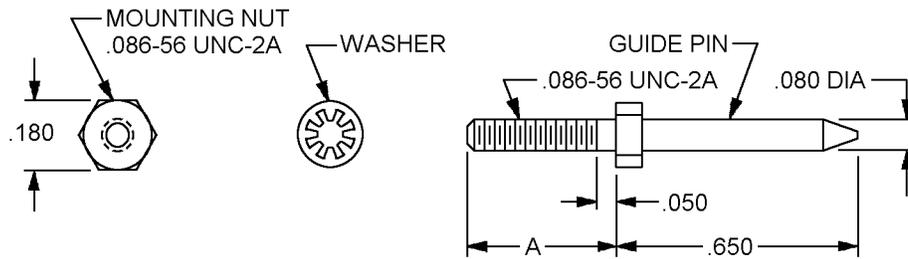
FIGURE 1. Installation of pin guide.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is  $\pm .005$  (0.13 mm).

FIGURE 2. Guide pin, M55302/182-01, -02, and -03.



Guide pin number	A	Figure
M55302/182-01	.475	2
M55302/182-02	.562	2
M55302/182-03	.750	2
M55302/182-04	.475	3
M55302/182-05	.562	3
M55302/182-06	.750	3

Inches	mm
.050	1.27
.080	2.03
.086	2.18
.180	4.57
.475	12.06
.562	14.27
.650	16.51
.750	19.05

NOTES:

1. Dimensions are in inches.
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FIGURE 3. Guide pin kit, M55302/182-04, -05, and -06.

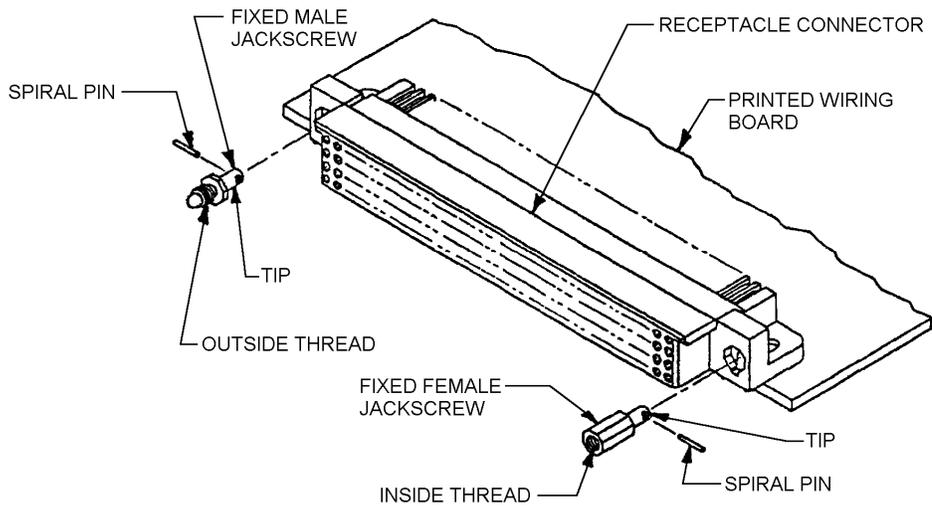


FIGURE 4. Installation of fixed jackscrews.

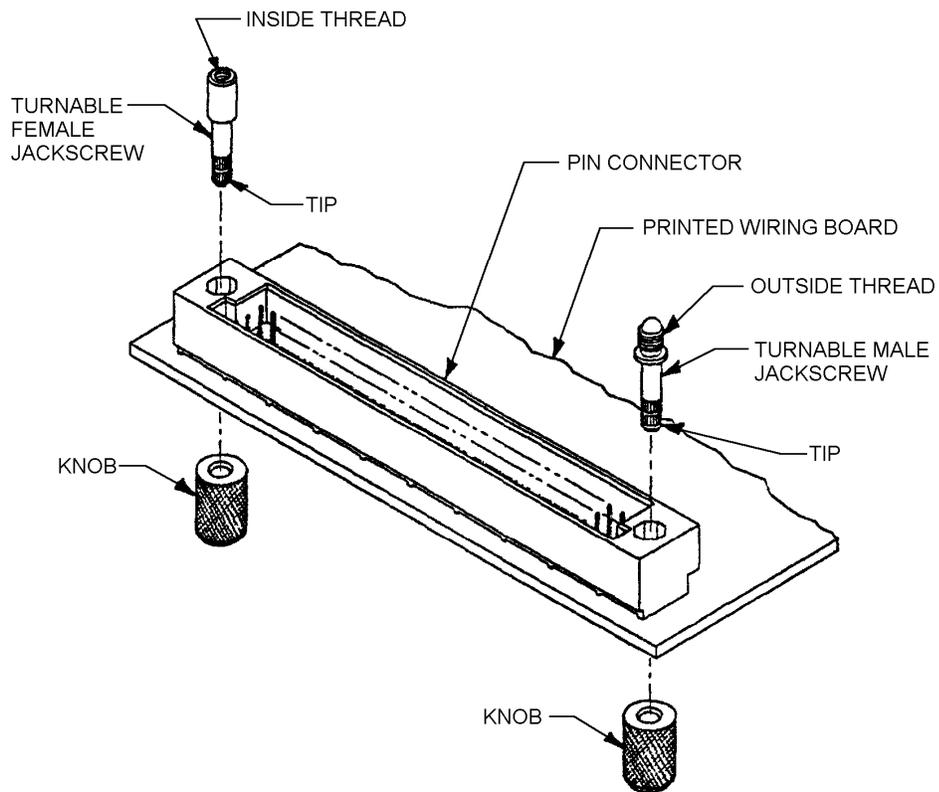


FIGURE 5. Installation of turnable jackscrews.

MIL-DTL-55302/182C

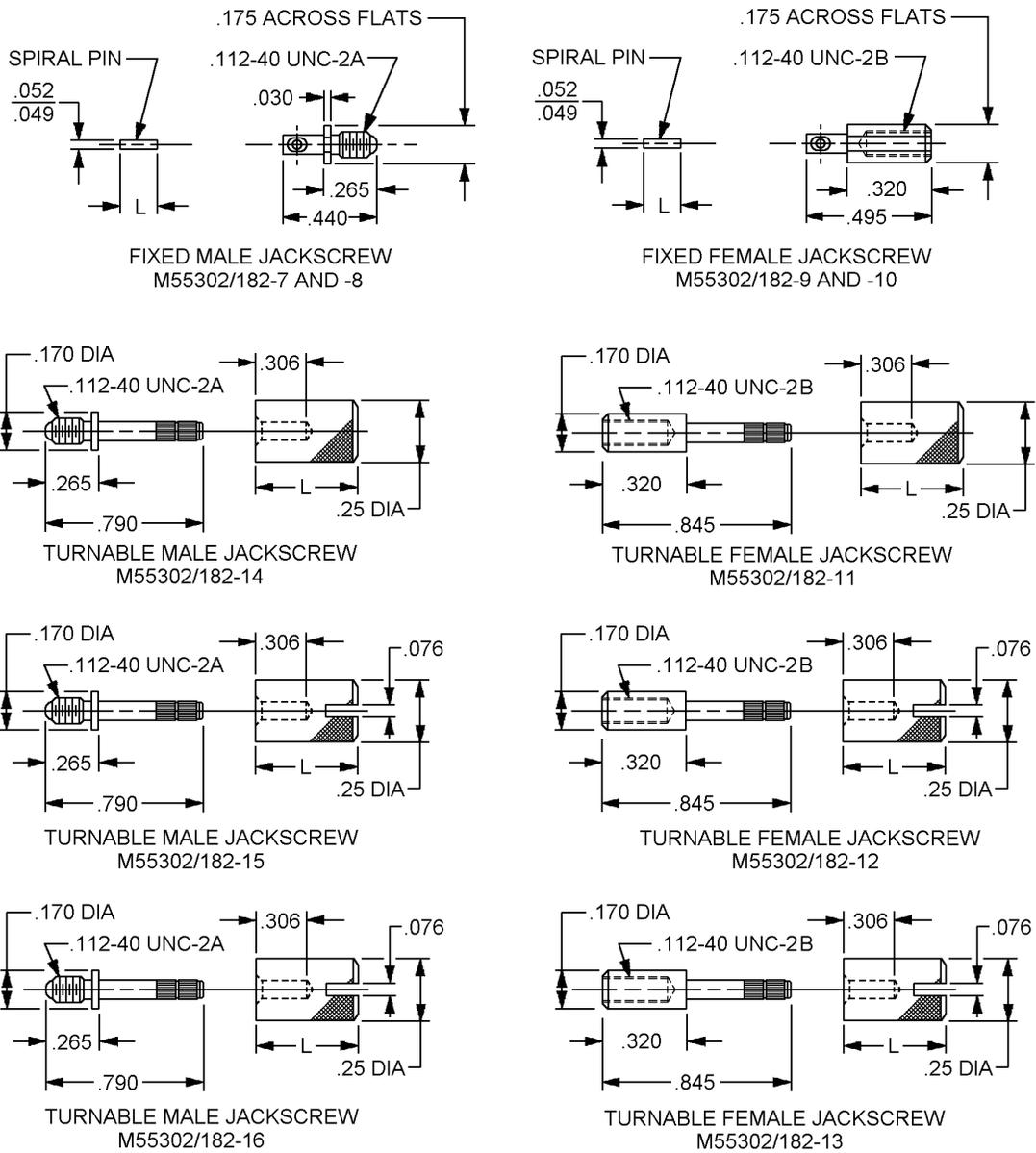


FIGURE 6. Jackscrews.

MIL-DTL-55302/182C

Type	Jackscrew PIN	Style	L	Figure	Used in receptacle assembly	Mating PIN assembly	Mating jackscrew		L	Figure
							PIN	Style		
VII	M55302/182-07	Fixed male	.187	4, 6	M55302/177 M55302/180	M55302/176 M55302/179	M55302/182-11	Turnable female	.50	5, 6
							M55302/182-12		.50	
							M55302/182-13		1.25	
VIII	M55302/182-08	Fixed male	.140	4, 6	M55302/174	M55302/173	M55302/182-11	Turnable female	.50	
							M55302/182-12		.50	
							M55302/182-13		1.25	
IX	M55302/182-09	Fixed female	.187	4, 6	M55302/177 M55302/180	M55302/176 M55302/179	M55302/182-14	Turnable male	.50	
							M55302/182-15		.50	
							M55302/182-16		1.25	
X	M55302/182-010	Fixed female	.140	4, 6	M55302/174	M55302/173	M55302/182-14	Turnable male	.50	
							M55302/182-15		.50	
							M55302/182-16		1.25	

Inches	mm	Inches	mm
.030	0.76	.265	6.73
.049	1.24	.306	7.77
.052	1.32	.320	8.13
.076	1.93	.440	11.18
.112	2.84	.495	12.57
.140	3.56	.50	12.7
.170	4.32	.790	20.07
.175	4.44	.845	21.46
.187	4.75	1.25	31.8
.25	6.4		

NOTES:

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3. Unless otherwise specified, tolerance is  $\pm .005$  (0.13 mm).

FIGURE 6. Jackscrews - Continued.

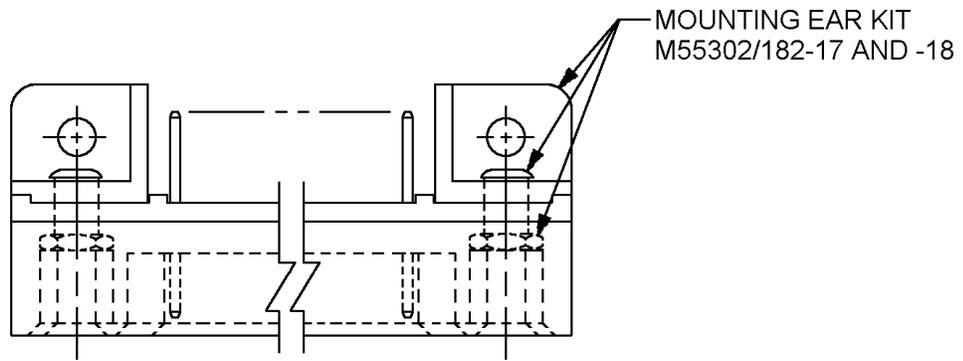
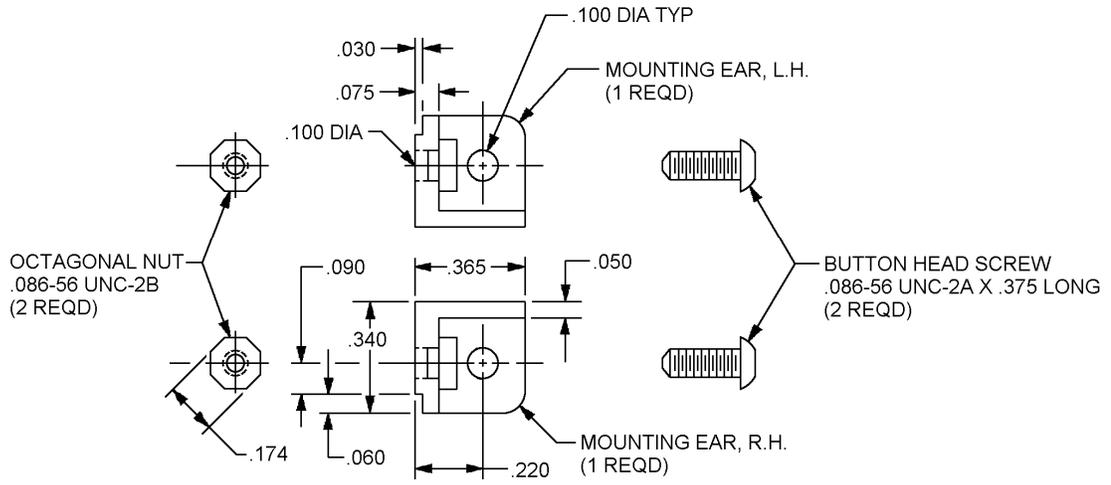


FIGURE 7. Installation of mounting ear for M55302/175, /178, and /181.

MIL-DTL-55302/182C



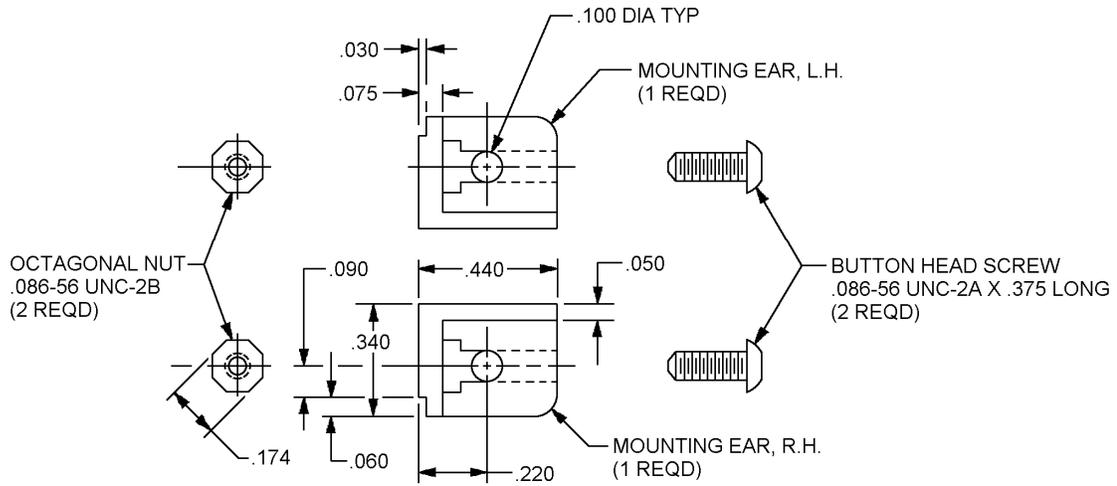
Inches	mm	Inches	mm
.030	0.76	.100	2.54
.050	1.27	.174	4.42
.060	1.52	.220	5.59
.075	1.90	.340	8.64
.086	2.18	.365	9.27
.090	2.29	.375	9.52

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is  $\pm .005$  (0.13 mm).

FIGURE 8. Mounting ear kit for M55302/175.

MIL-DTL-55302/182C



Type	Mounting ear kit	Figures
XI	M55302/182-17	7, 8
XII	M55302/182-18	7, 9

Inches	mm	Inches	mm
.030	0.76	.100	2.54
.050	1.27	.174	4.42
.060	1.52	.220	5.59
.075	1.90	.340	8.64
.086	2.18	.375	9.52
.090	2.29	.440	11.18

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is  $\pm .005$  (0.13 mm).

FIGURE 9. Mounting ear kit for M55302/178 and M55302/181.

REQUIREMENTS:

Design and construction:

Dimensions and configurations: See figures 1 through 9.

Material:

Types I through III:

Guide pin: Stainless steel in accordance with ASTM A582/A582M.

Types IV through VI:

Guide pin: Stainless steel in accordance with ASTM A582/A582M.

Mounting nut: Stainless steel in accordance with ASTM A582/A582M.

Internal tooth lock washer: Stainless steel in accordance with ASTM A582/A582M.

Types VII through X:

Knob: Stainless steel in accordance with ASTM A582/A582M.

Turnable jackscrew: Stainless steel in accordance with ASTM A582/A582M.

Fixed jackscrew: Stainless steel in accordance with ASTM A582/A582M.

Spiral pin: Stainless steel in accordance with ASTM A240/A240M or ASTM A666 or ASTM A693.

Types XI and XII:

Mounting ear: In accordance with MIL-DTL-55302.

Octagonal nut: Stainless steel in accordance with ASTM A582/A582M.

Button head screw: Alloy steel in accordance with ASTM A574.

Finish:

Types I through III:

Guide pin: Passivate in accordance with SAE-AMS-2700, type 2.

Types IV through VI:

Guide pin: Passivate in accordance with SAE-AMS-2700, type 2.

Mounting nut: Passivate in accordance with SAE-AMS-2700, type 2.

Internal tooth lock washer: Passivate in accordance with SAE-AMS-2700, type 2.

MIL-DTL-55302/182C

Types VII through X:

Knob: Passivate in accordance with SAE-AMS-2700, type 2.

Turnable jackscrew: Passivate in accordance with SAE-AMS-2700, type 2.

Fixed jackscrew: Passivate in accordance with SAE-AMS-2700, type 2.

Spiral pin: Passivate in accordance with SAE-AMS-2700, type 2.

Types XI and XII:

Octagonal nut: Passivate in accordance with SAE-AMS-2700, type 2.

Button head screw: Black thermal oxide.

Application:

Types I through VI shall be used with connectors found in M55302/176 and /179.

Types VII and IX shall be used with connectors found in M55302/176, /177, /179, and /180.

Types VIII and X shall be used with connectors found in M55302/173 and /174.

Type XI shall be used with connectors found in M55302/175.

Type XII shall be used with connectors found in M55302/178 and /181.

Installation:

Types I through VI: See figure 1.

Types VII through X: See figures 4 and 5.

Types XI and XII: See figure 7.

CHANGES FROM PREVIOUS ISSUE: The margins of this specification are marked with vertical lines to indicate where changes from previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents. In addition to MIL-DTL-55302, this document references the following:

ASTM A240/A240M  
ASTM A574  
ASTM A582/A582M  
ASTM A666  
ASTM A693  
SAE-AMS-2700

MIL-DTL-55302/182C

CONCLUDING MATERIAL

Custodians:

Army – CR  
Navy - EC  
Air Force - 11  
DLA – CC

Preparing activity:  
DLA - CC

(Project 5935-2007-040)

Review activities:

Army – AR, AT, AV, CR4, MI  
Navy – AS, MC, SH  
Air Force - 19, 99

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