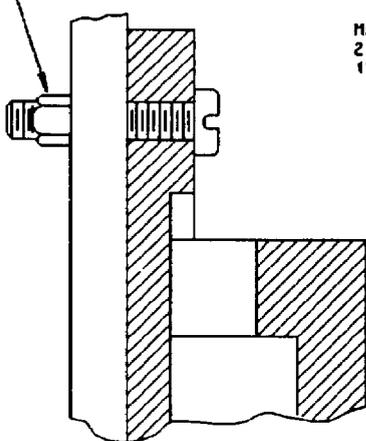


FIGURE 1. Connector plug, type I, .075 (1.90 mm) spacing - Continued.

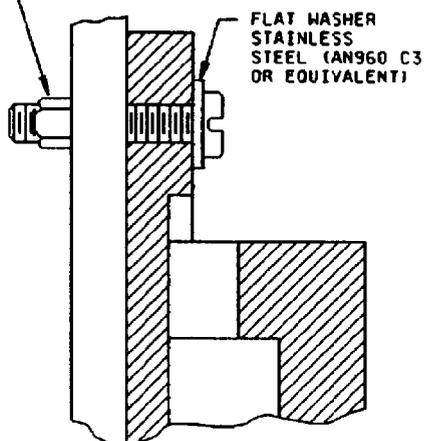
2-56 COLD ROLLED
STEEL PAN HEAD MACHINE
SCREW (MS35223 SEE NOTE 2
OR EQUIVALENT) AND NUTS
(MS35645-222)

MAX TORQUE =
1.4 IN-LB
(SEE NOTE 1)

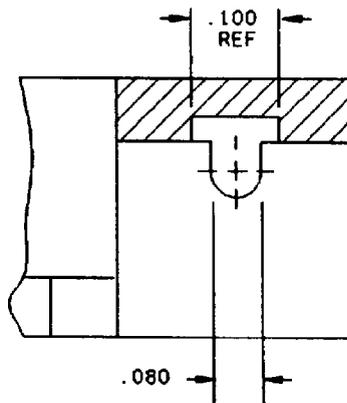
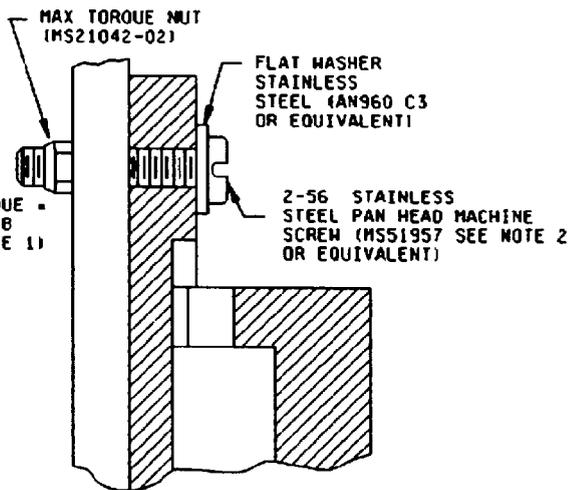


2-56 STAINLESS
STEEL PAN HEAD MACHINE
SCREW (MS51957 SEE NOTE 2
OR EQUIVALENT) AND NUTS
(MS35649-224)

MAX TORQUE =
2.4 IN-LB
(SEE NOTE 1)



MOUNTING RECOMMENDATIONS



KEYING RIVET HOLE CONFIGURATION
SECTION Y-Y

NOTES:

1. Torque wrench must be used when fastening connector to printed circuit board.
2. Length to be determined by user.

FIGURE 1. Connector plug, type I, .075 (1.90 mm) spacing - Continued.

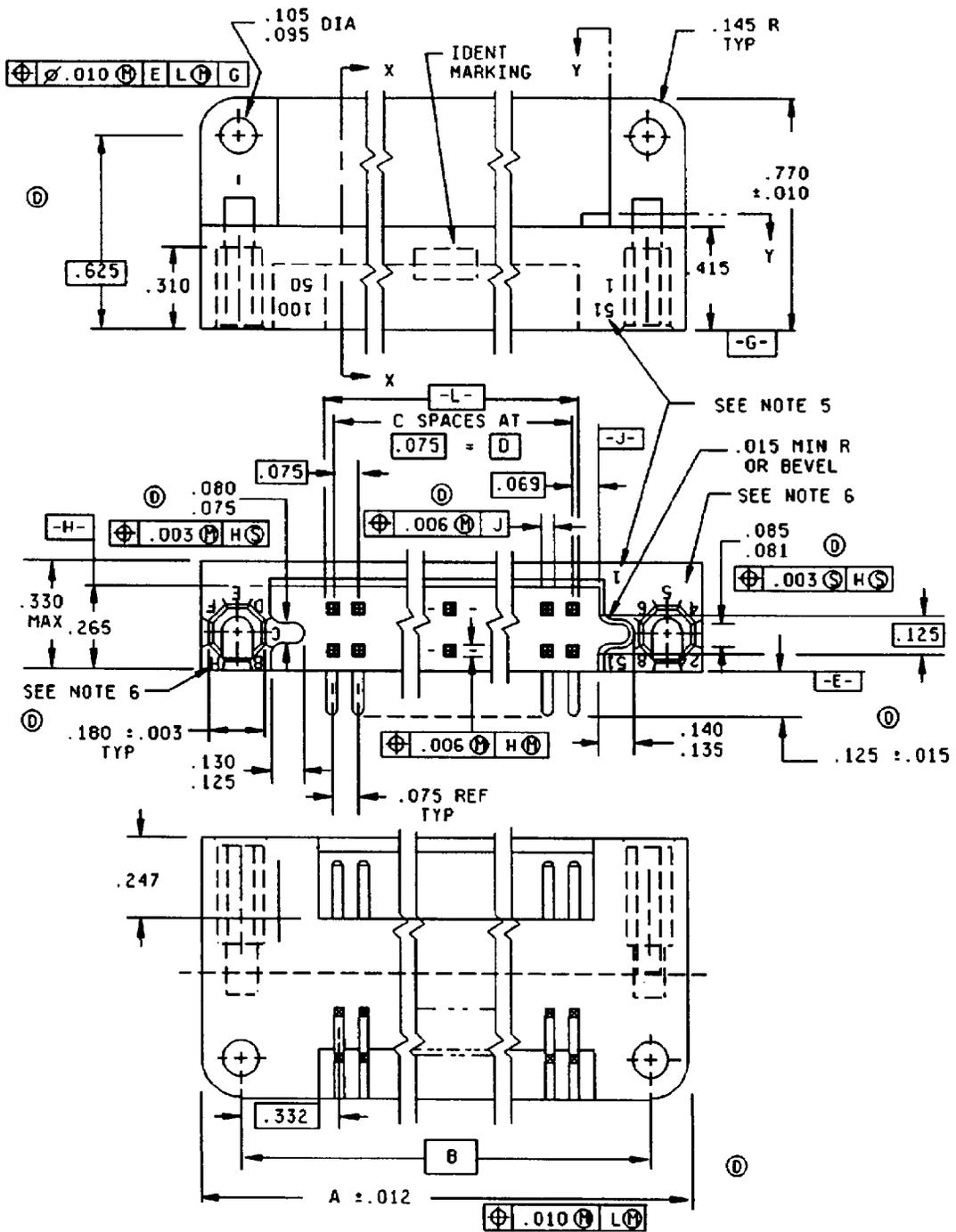
Inches	mm	Inches	mm	Inches	mm
.003	0.08	.080	2.03	.150	3.81
.005	0.13	.081	2.06	.180	4.57
.006	0.15	.085	2.16	.230	5.84
.008	0.20	.095	2.41	.247	6.27
.010	0.25	.096	2.44	.265	6.73
.012	0.30	.100	2.54	.310	7.87
.015	0.38	.105	2.67	.330	8.38
.016	0.41	.109	2.77	.332	8.43
.018	0.46	.113	2.87	.377	9.58
.024	0.61	.125	3.18	.415	10.54
.026	0.66	.130	3.30	.500	12.70
.035	0.89	.135	3.43	.625	15.88
.069	1.75	.140	3.56	.770	19.56
.075	1.91	.145	3.68		

NOTES:

1. Dimensions are in inches.
2. Metric equivalent are given for formation only.
3. Unless otherwise specified, tolerance is ± 0.005 (0.13 mm) on decimals and $\pm 2^\circ$ on angles.
4. These connectors mate with connectors specified in MIL-C-55302/24 and MIL-C-55302/25.
5. Numbers indicating every 5 cavities marked or molded on side. Numbers indicating end cavities and line indicating every 5 cavities marked or molded on mating face.
6. Key locations embossed on indicated surfaces.

D

FIGURE 1. Connector plug, type I, .075 (1.90 mm) spacing - Continued.



TYPE II

FIGURE 2. Connector plug, type II, .075 (1.90 mm) spacing

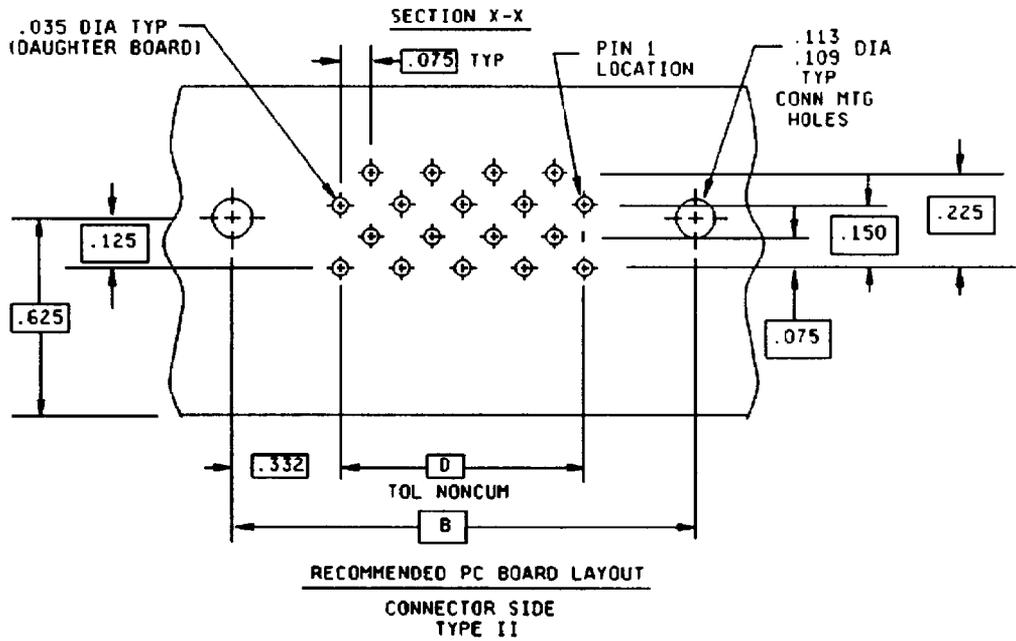
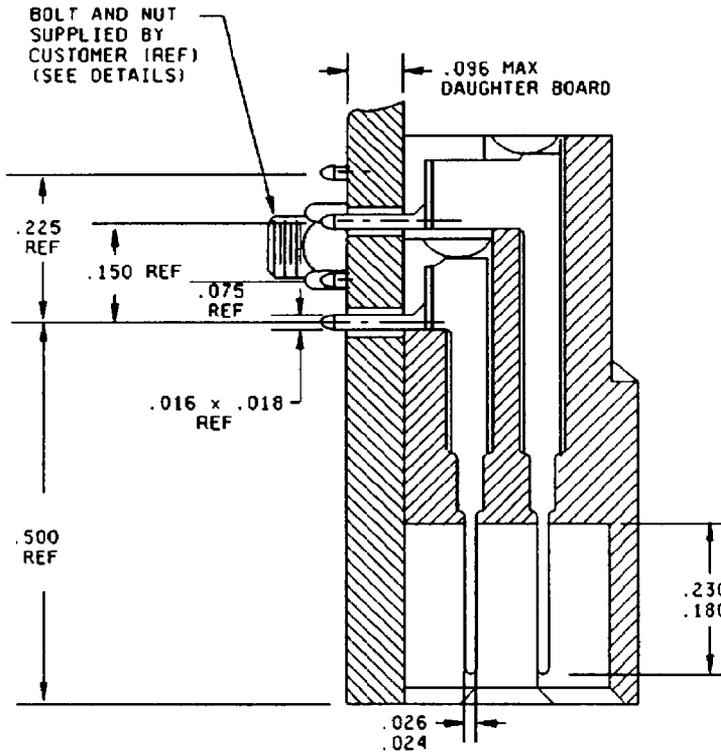
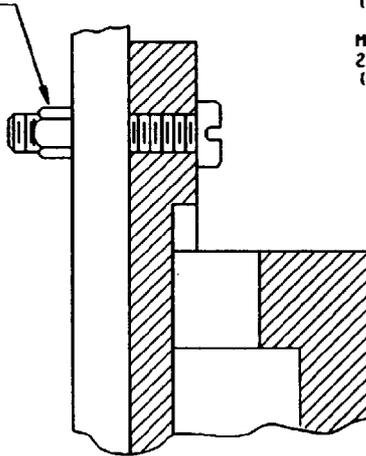


FIGURE 2. Connector plug, type II, .075 (1.90 mm) spacing - Continued.

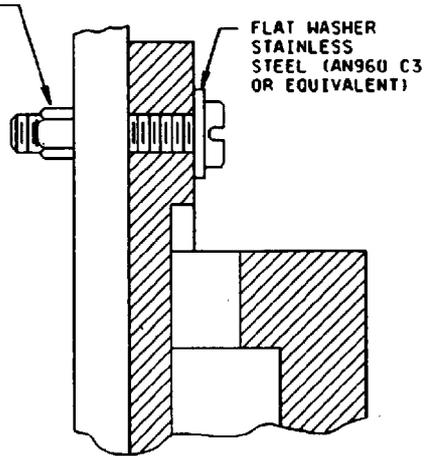
2-56 COLD ROLLED
STEEL PAN HEAD MACHINE
SCREW (MS35223 SEE NOTE 2
OR EQUIVALENT) AND NUTS
(MS35645-222)

MAX TORQUE =
1.4 IN-LB
(SEE NOTE 1)

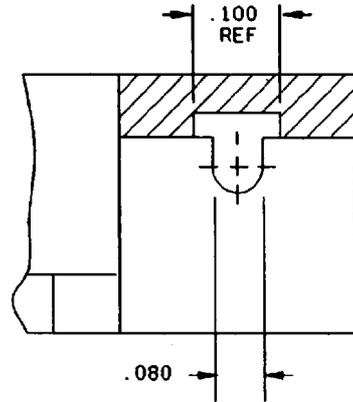
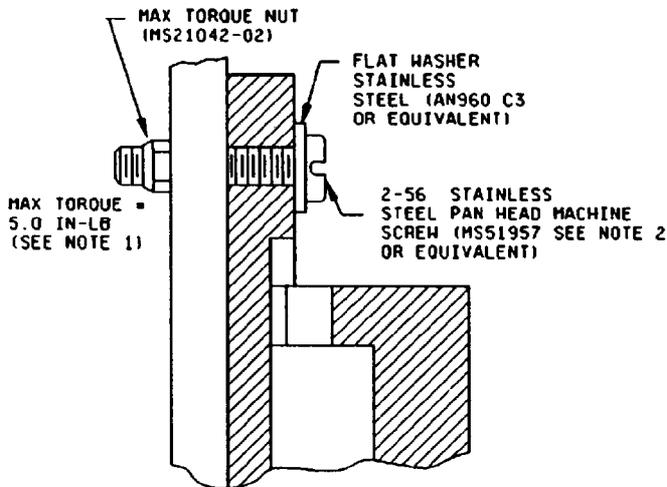


2-56 STAINLESS
STEEL PAN HEAD MACHINE
SCREW (MS51957 SEE NOTE 2
OR EQUIVALENT) AND NUTS
(MS35649-224)

MAX TORQUE =
2.4 IN-LB
(SEE NOTE 1)



MOUNTING RECOMMENDATIONS



KEYING RIVET HOLE CONFIGURATION

SECTION Y-Y

NOTES:

1. Torque wrench must be used when fastening connector to printed circuit board.
2. Length to be determined by user.

FIGURE 2. Connector plug, type II, .075 (1.90 mm) spacing - Continued.

Inches	mm	Inches	mm	Inches	mm
.003	0.08	.080	2.03	.150	3.81
.005	0.13	.081	2.06	.180	4.57
.006	0.15	.085	2.16	.225	5.72
.008	0.20	.095	2.41	.230	5.84
.010	0.25	.096	2.44	.247	6.27
.012	0.30	.100	2.54	.265	6.73
.015	0.38	.105	2.67	.310	7.87
.016	0.41	.109	2.77	.330	8.38
.018	0.46	.113	2.87	.332	8.43
.024	0.61	.125	3.18	.377	9.58
.026	0.66	.130	3.30	.415	10.54
.035	0.89	.135	3.43	.500	12.70
.069	1.75	.140	3.56	.625	15.88
.075	1.91	.145	3.68	.770	19.56

NOTES:

1. Dimensions are in inches.
2. Metric equivalent are given for formation only.
3. Unless otherwise specified, tolerance is ± 0.005 (0.13 mm) on decimals and $\pm 2^\circ$ on angles.
4. These connectors mate with connectors specified in MIL-C-55302/24 and MIL-C-55302/25.
5. Numbers indicating every 5 cavities marked or molded on side. Numbers indicating end cavities and line indicating every 5 cavities marked or molded on mating face.
6. Key locations embossed on indicated surfaces.

FIGURE 2. Connector plug, type II. .075 (1.90 mm) spacing - Continued.

TABLE I. Dash numbers and dimensions for types I and II.

Dash number	Type number	Number of contacts	Dimensions ^{1/}				Contact identification numbers
			A	B	C	D	
01 16	I II	10	1.255 (31.88)	.965 (24.51)	4	.300 (7.62)	1, 6
02 17	I II	20	1.630 (41.40)	1.340 (34.04)	9	.675 (17.14)	1, 11
03 18	I II	30	2.005 (50.93)	1.715 (43.56)	14	1.050 (26.67)	1, 16
04 19	I II	40	2.380 (60.45)	2.090 (53.09)	19	1.425 (36.20)	1, 21
05 20	I II	50	2.755 (69.98)	2.465 (62.61)	24	1.800 (45.72)	1, 26
06 21	I II	60	3.130 (79.50)	2.840 (72.14)	29	2.175 (55.24)	1, 31
07 22	I II	70	3.505 (89.03)	3.215 (81.66)	34	2.550 (64.77)	1, 36
08 23	I II	80	3.880 (98.55)	3.590 (91.19)	39	2.925 (124.46)	1, 41
09 24	I II	90	4.255 (108.08)	3.965 (100.71)	44	3.300 (83.82)	1, 46
10 25	I II	100	4.630 (117.60)	4.340 (110.24)	49	3.675 (93.34)	1, 51
11 26	I II	110	5.005 (127.13)	4.715 (119.76)	54	4.050 (102.87)	1, 56
12 27	I II	120	5.380 (136.65)	5.090 (129.29)	59	4.425 (112.40)	1, 61
13 28	I II	150	6.505 (165.23)	6.215 (157.86)	74	5.550 (140.97)	1, 76
14 29	I II	160	6.880 (174.75)	6.590 (167.39)	79	5.925 (150.50)	1, 81
15 30	I II	180	7.630 (193.80)	7.340 (186.44)	89	6.675 (169.54)	1, 91

^{1/} Metric equivalents are in parentheses.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figures 1 and 2 and table I.

Material: In accordance with MIL-C-55302.

Ⓓ Insulator body: Insulator material shall be in accordance with MIL-C-55302 or MIL-M-24519 type GLCP-30F.

Ⓓ Contact material: Contact material shall be in accordance with MIL-C-55302 or beryllium copper alloy CDA174 in accordance with ASTM B768.

Plating: The contact plating for the engagement area, (.150 inch minimum length) shall be gold over nickel in accordance with MIL-C-55302. The contact area between the engagement area and the solder tail shall be nickel in accordance with MIL-C-55302. The contact plating for the solder tail area shall be tin-lead over nickel in accordance with MIL-C-55302.

Contact identification: See figures 1 and 2.

Contact rating: 3.0 amperes maximum per contact, 2.25 amperes continuous per contact at 75°F.

Mating and unmating: The maximum mating force in pounds shall be the number of contacts multiplied by .25 and the withdrawal force in pounds shall be a minimum of .025 times the number of contacts and shall not exceed the measured insertion force.

Contact resistance: No individual contact pair shall have a resistance exceeding .020 ohm.

Contact retention: 3 pounds minimum.

Dielectric withstanding voltage:

Sea level - 900 volts rms.

High altitude - 200 volts rms.

Keying: See MIL-C-55302/31.

Part number: M55302/156 - (and dash number from table I).

Patent number 3,404,367. The Government has a royalty-free license under the above patent for the benefit of manufacturers of the items called for in this specification, either for the Government or for use in equipment to be delivered to the Government.

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 17

Preparing activity:

Army - CR

Review activities:

Army - AR, MI
Navy - AS, OS
Air Force - 85, 99

Agent:

DLA - ES

(Project 5935-3858-04)

User activities:

Army - AT, AV, ME
Navy - MC
Air Force - 19