

REV.  
A

FEDERAL SUPPLY CLASS  
5935

SAE AS33702

RATIONALE

REVISED TO PROVIDE LEGIBLE DRAWINGS

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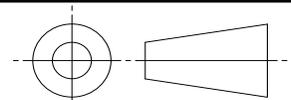
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THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: MIL-C-81703

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

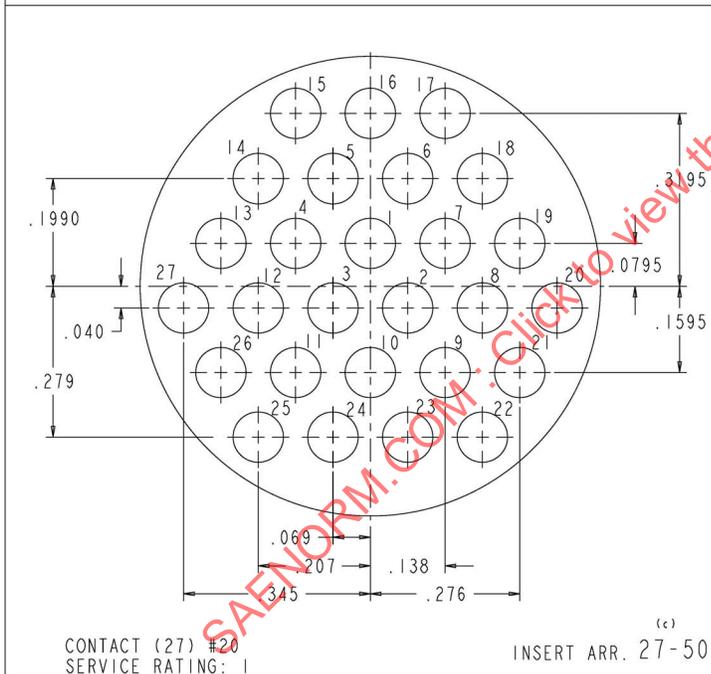
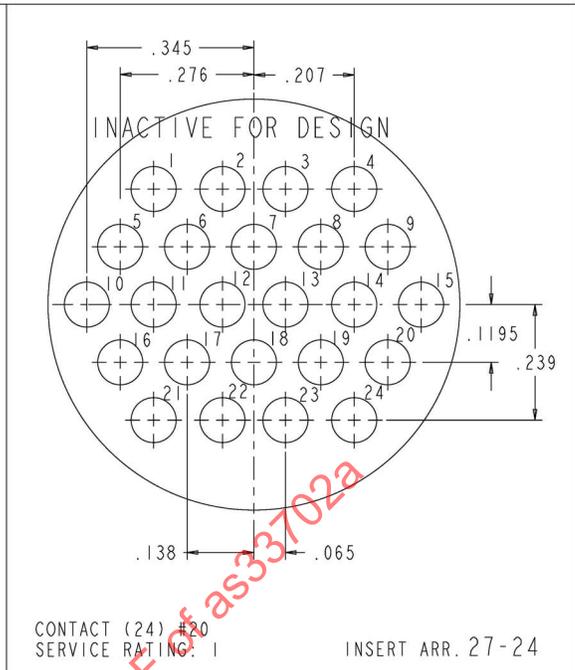
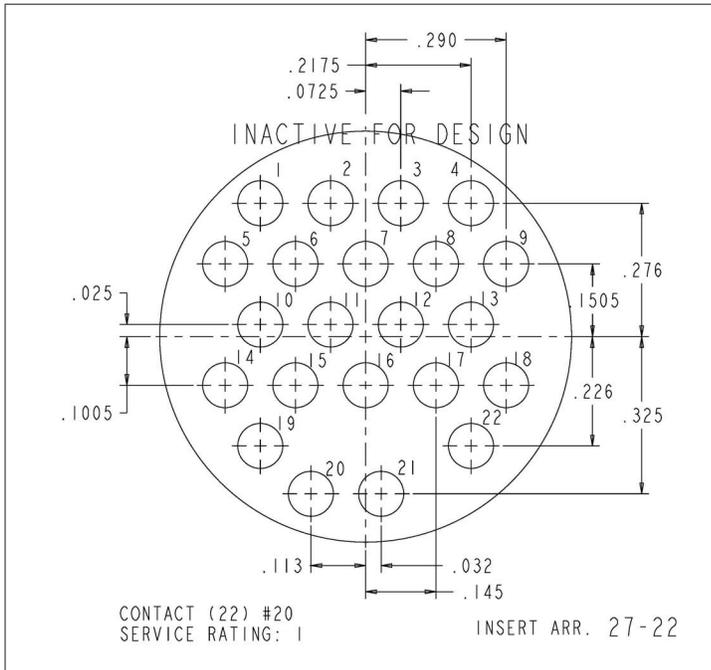
INSERT ARRANGEMENTS, ELECTRIC CONNECTOR, SHELL SIZE 27

**SAE AS33702**  
SHEET 1 OF 5

**REV. A**

ISSUED 2002-02 REVISED 2010-04

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CL OF MASTER KEY OR KEYWAY OF SHELL

INDEXING RADIUS

FACE VIEW OF PIN INSERT

INSERT POSITION FIGURE

INSERT ARR	INSERT POSITION A DEGREES (°)					
	N	W	X	Y	B	C
(C) 27-50	0°	25°	50°	75°	150°	225°
27-22	0°	25°	50°	75°	150°	225°
27-24	0°	25°	50°	75°	150°	225°

(a) ↑ TO BE WITHIN .005 INCHES OF THE REQUIRED POSITION

(b) THESE INSERT POSITIONS ARE NOT TO BE PROVIDED

(c) INSERT ARR 27-50 SUPERCEDES AND IS INTERCHANGEABLE WITH INSERT ARR -27

DIMENSIONS AND MARKINGS SHOWN ARE FOR FRONT FACE OF PIN INSERT (SOCKET INSERT OPPOSITE) UNLESS OTHERWISE INDICATED, DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE.



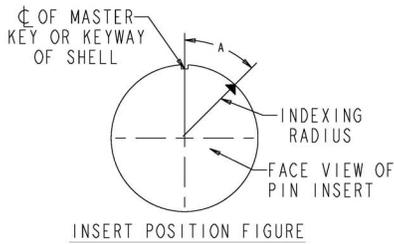
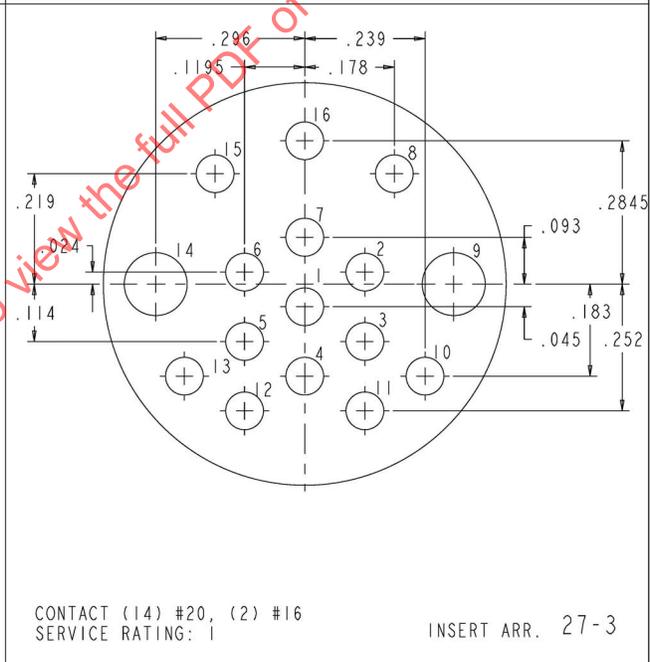
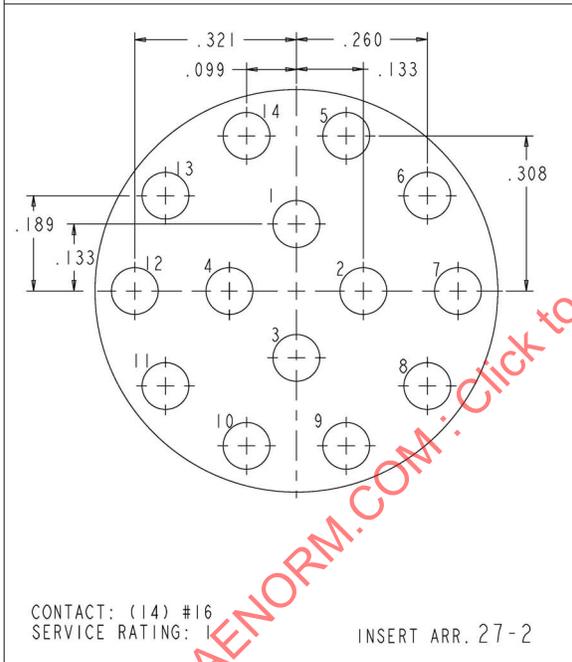
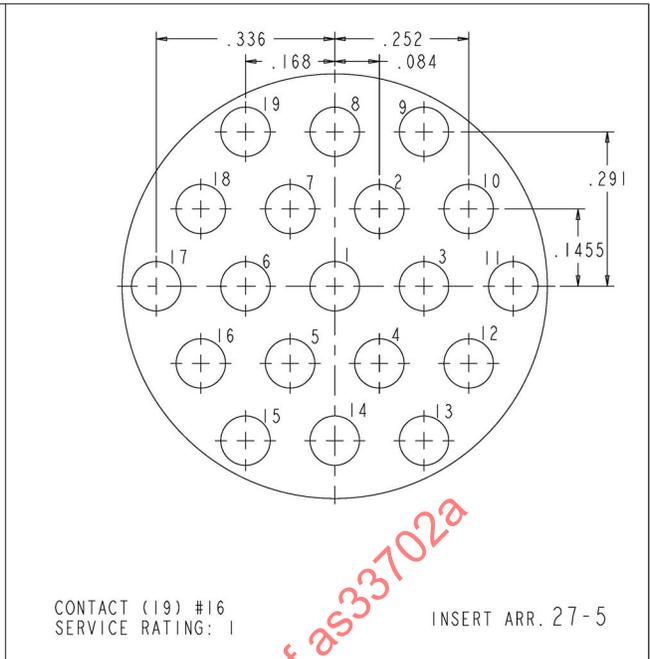
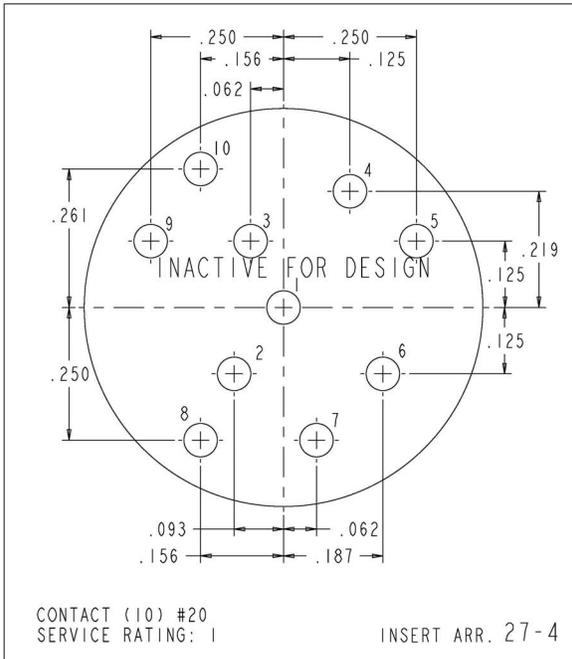
INDICATES "MASTER KEY OR KEYWAY OF SHELL."

↑ INDICATING TERMINUS OF "INDEXING RADIUS OF INSERT" SHALL BE PERMANENTLY MARKED ON THE INSERT.

IN "N" POSITION THE INDEXING RADIUS COINCIDES WITH CL OF THE "MASTER KEYWAY OF SHELL."

IN OTHER THAN "N" POSITION THE PIN INSERT IS ROTATED A DEGREES CLOCKWISE RELATIVE TO CL OF THE "MASTER KEY OR KEYWAY OF SHELL" AS INDICATED.

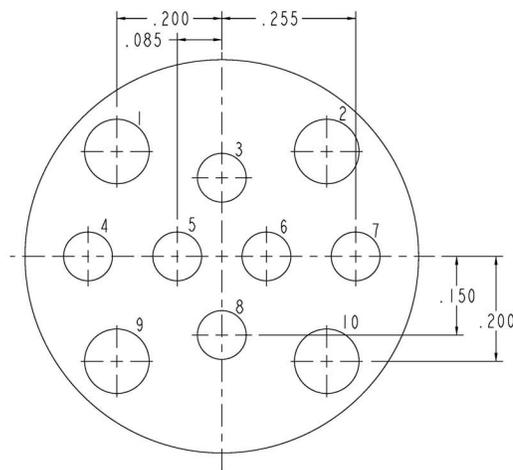
IN OTHER THAN "N" POSITION THE SOCKET INSERT IS ROTATED A DEGREES COUNTER CLOCKWISE RELATIVE TO CL OF THE "MASTER KEY OR KEYWAY OF SHELL".



INSERT ARR	INSERT POSITION A DEGREES (°)						
	N	W	X	Y	Z	B	C
27-2	0°	25°	50°	75°	(b)	150°	225°
27-3	0°	25°	50°	75°	(b)	150°	225°
27-4	0°	25°	50°	75°	(b)	150°	225°
27-5	0°	(b)	(b)	75°	(b)	150°	225°

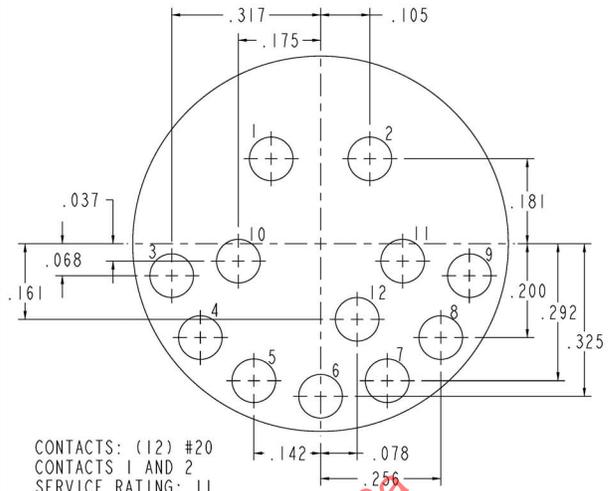
(a) ↑ TO BE WITHIN .005 INCHES OF THE REQUIRED POSITION  
 (b) THESE INSERT POSITIONS ARE NOT TO BE PROVIDED

NOTES:



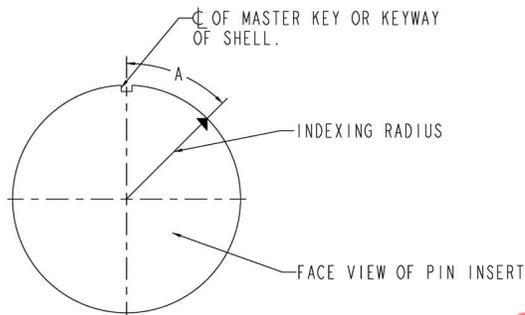
CONTACTS: (6) #16, (4) #12  
SERVICE RATING: I

INSERT ARR.27-8



CONTACTS: (12) #20  
CONTACTS 1 AND 2  
SERVICE RATING: II  
ALL OTHERS-  
SERVICE RATING: I

INSERT ARR.27-11



INSERT POSITION FIGURE

INSERT ARR	INSERT POSITION A DEGREES						
	N	W	X	Y	Z	B	C
27-8	0°	25°	50°	75°	(b)	150°	225°
27-11	0°	25°	50°	75°	(b)	150°	225°

(a) TO BE WITHIN .006 INCHES OF THE REQUIRED POSITION

(b) THESE INSERT POSITIONS ARE NOT TO BE PROVIDED

NOTES:

RECEPTACLES (REF)      PLUGS (REF)

MS3130	MS3137
MS3132	MS3138
MS3134	MS3147
MS3139	MS3148
MS3140	MS3446
MS3143	MS3467
MS3144	MS3468
MS3145	MS3445
MS3149	
MS3424	
MS3463	
MS3464	
MS3466	
MS3469	