MCDONNELL DOUGLAS

FED SUP CLASS
5935

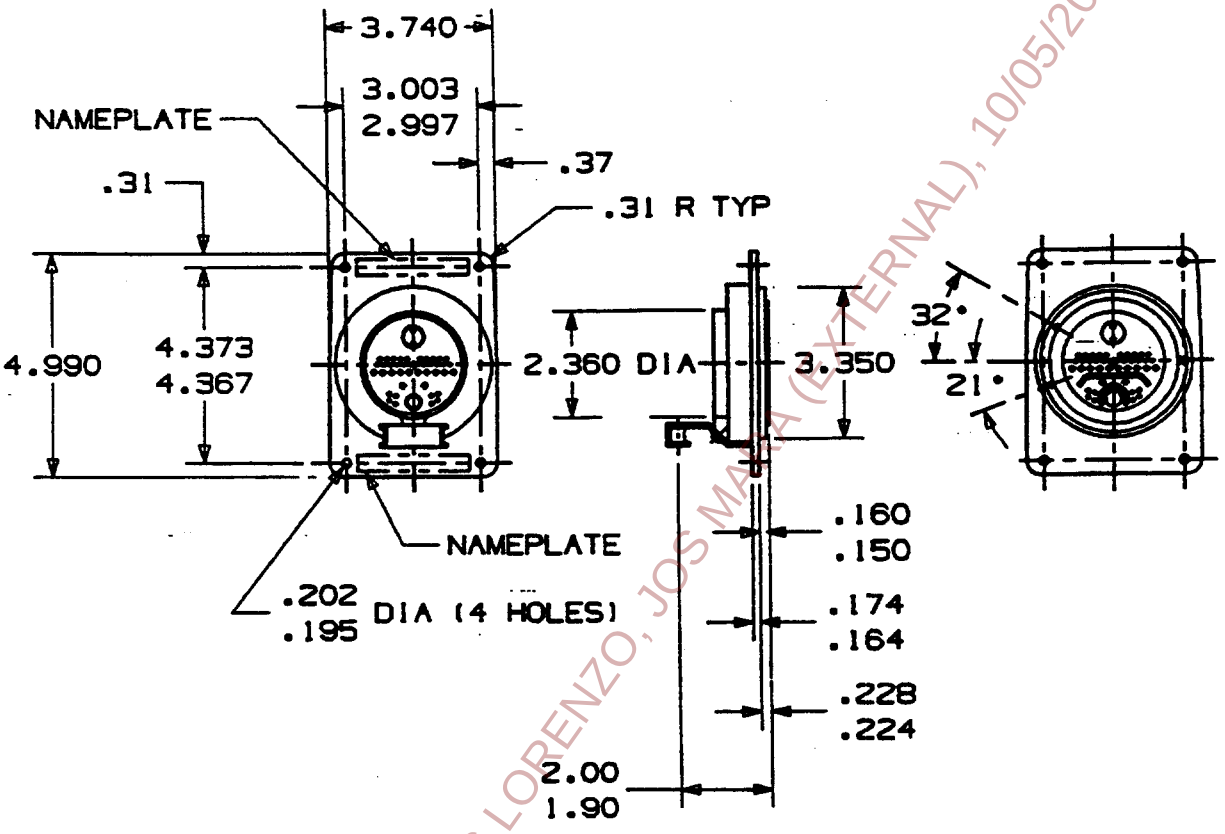


FIGURE 1 - ST5M1487-001 RECEPTACLE

SCALE: NONE

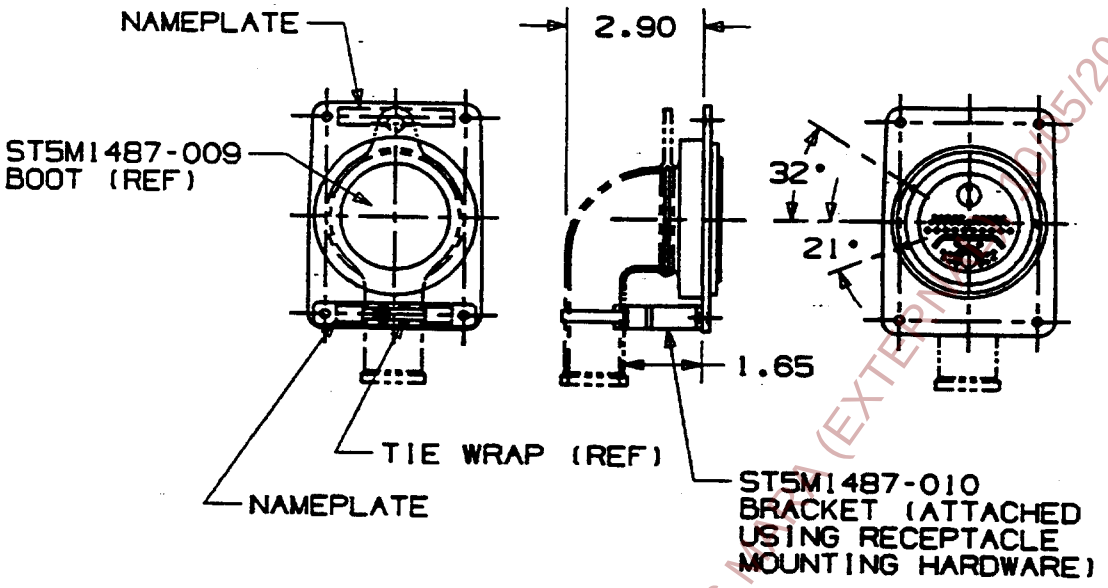
Ⓜ DENOTES CHANGE

DIMENSIONS IN INCHES: TOLERANCES UNLESS OTHERWISE SPECIFIED: X.XX ± 0.03; X.XXX ± 0.010; ANGLES ± 0.5%

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

CAGE NO. 76301	*McDonnell Douglas Aerospace - East*	STANDARD PART DRAWING
APPROVED 77-05-01 REVISION Ⓜ 94-09-12	TITLE CONNECTOR, RECEPTACLE ELECTRICAL - FLANGE MOUNT (FOR QUICK DISCONNECT PLUG)	ST5M1487 SHEET 1 OF 24

MAC3463AEF (REV. - 1 NOV 93)



MOUNTING INTERFACE DIMENSIONS SAME AS ST5M1487-001

FIGURE 2 - ST5M1487-002 RECEPTACLE

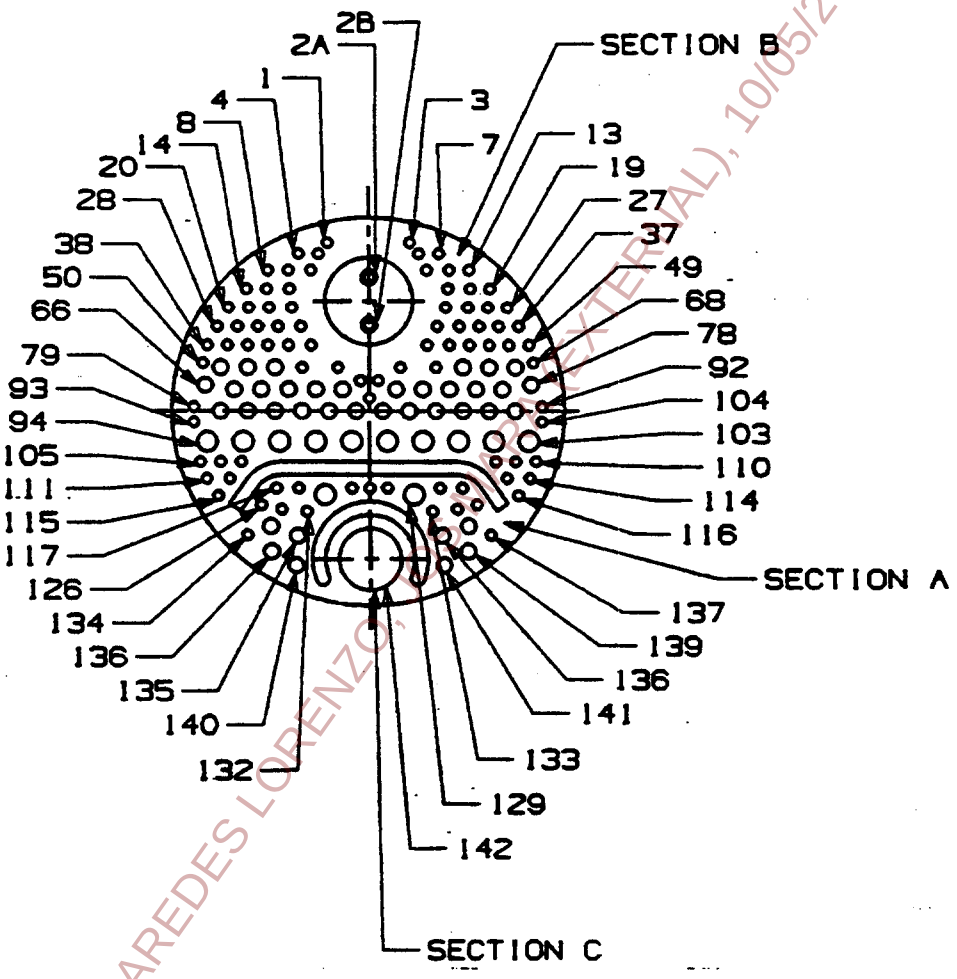
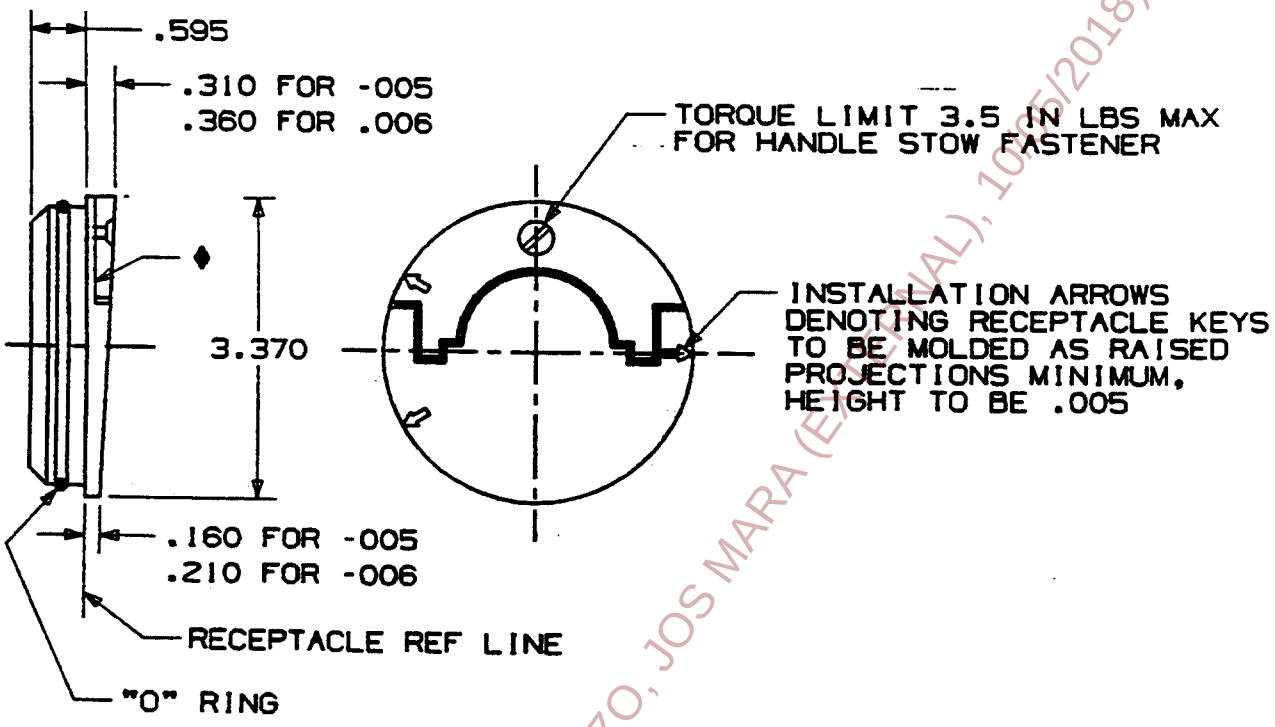


FIGURE 3 - INSERT ARRANGEMENT FOR ST5M1487-001 AND -002 (WIRE ENTRY SIDE)

CAGE NO. 76301	ST5M1487 SHEET 3	REV (M)



♦ VENDOR'S NAME, PART NUMBER, SERIAL NUMBER AND MDAE PART NUMBER TO BE LOCATED ON SURFACE BELOW HANDLE

FIGURE 4 - ST5M1487-005 & -006 COVER

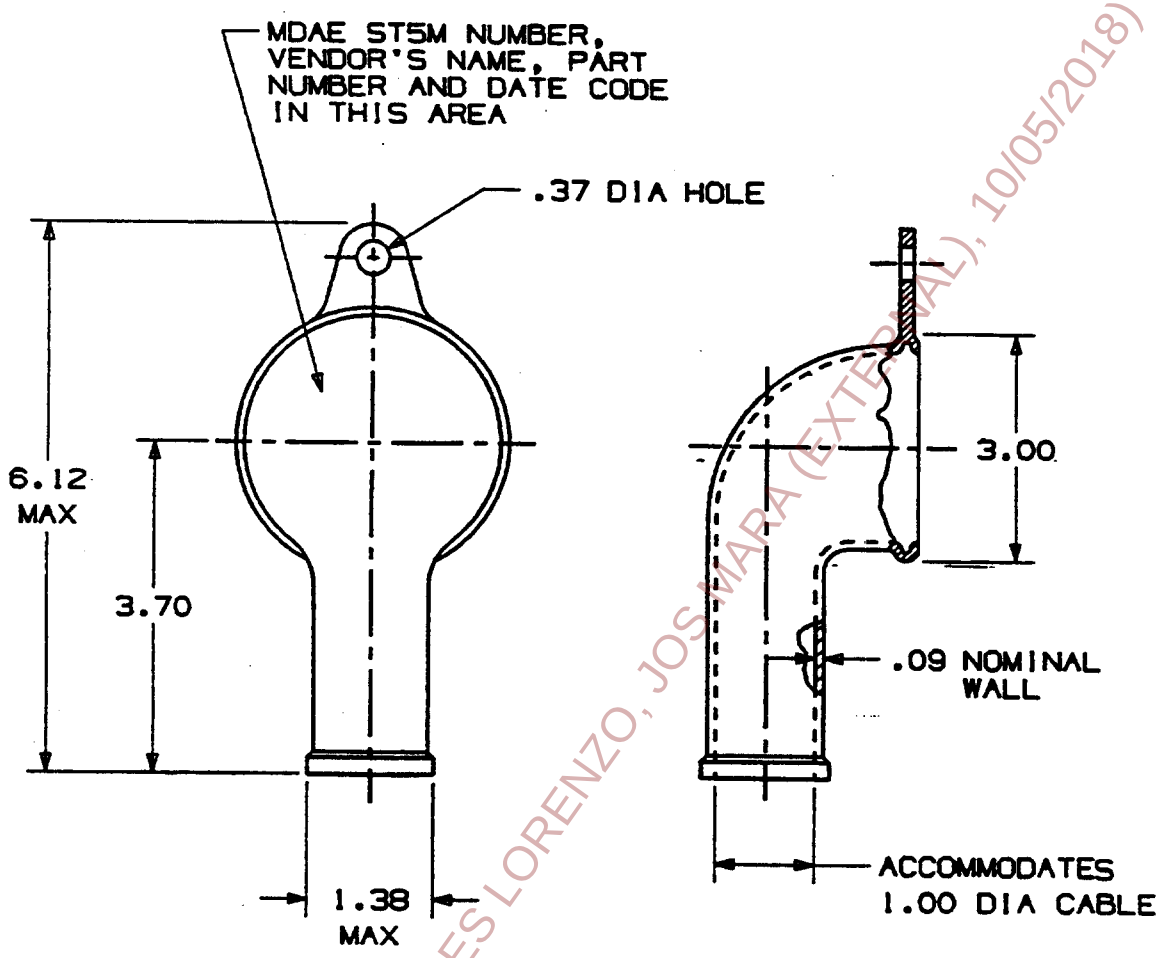


FIGURE 5 - ST5M1487-009 RESILIENT ELASTOMER BOOT

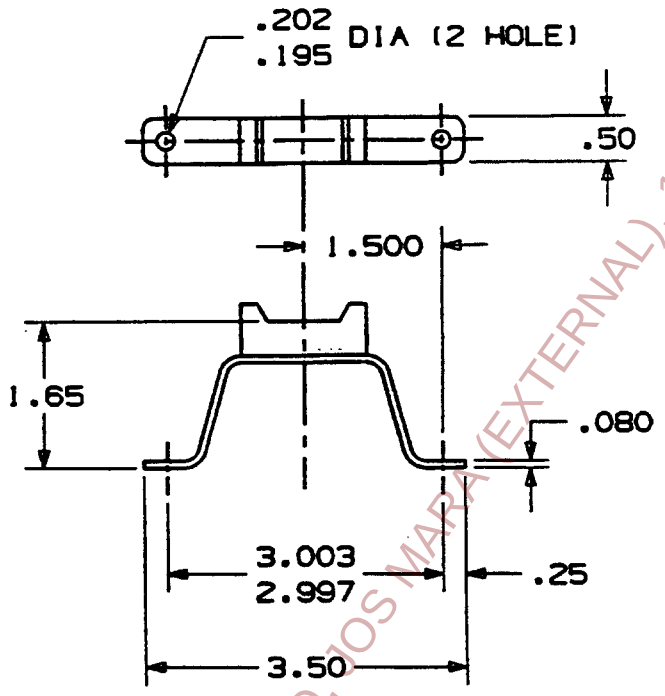


FIGURE 6 - ST5M1487-010 CABLE SUPPORT BRACKET

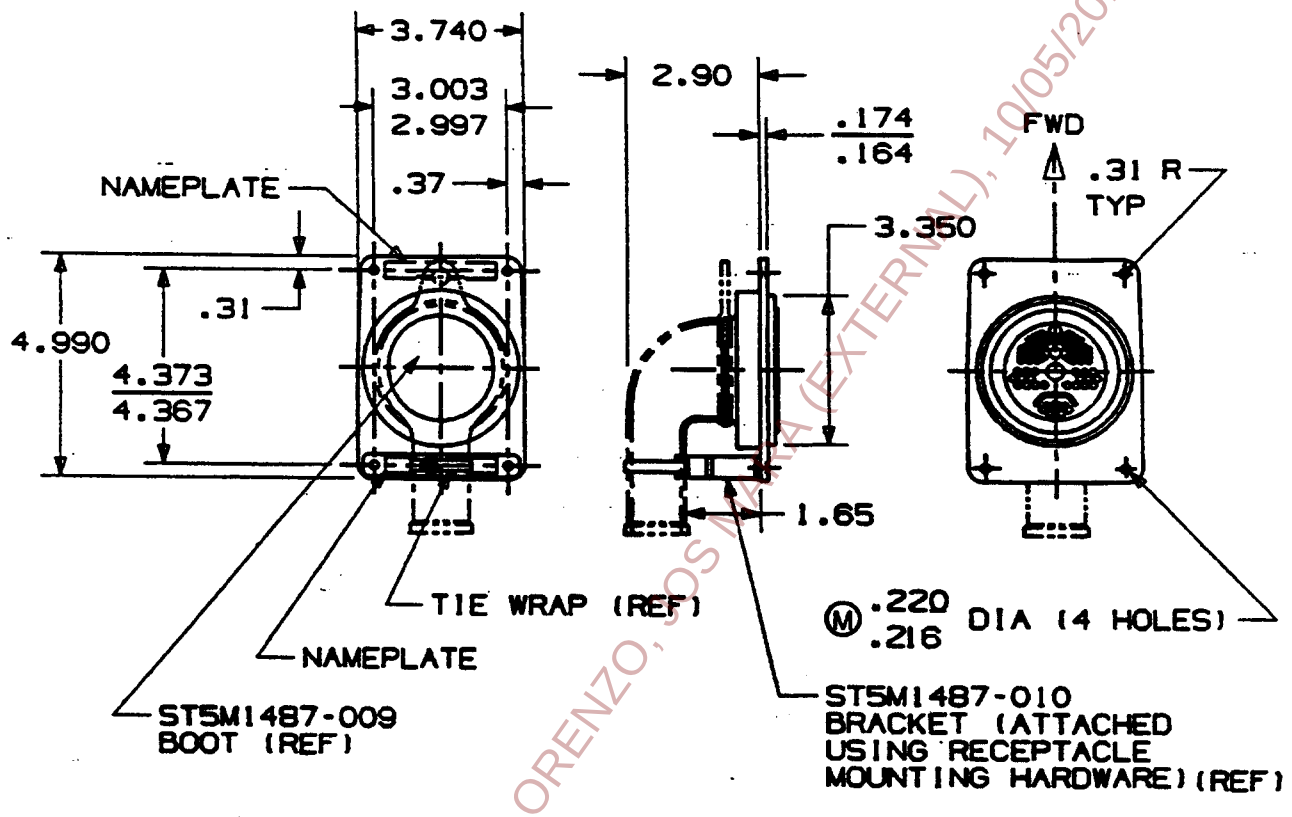


FIGURE 7 -- CONFIGURATION AND DIMENSIONS FOR ST5M1487-501 RECEPTACLE

CAGE NO. 76301	ST5M1487 SHEET 7	REV Ⓜ

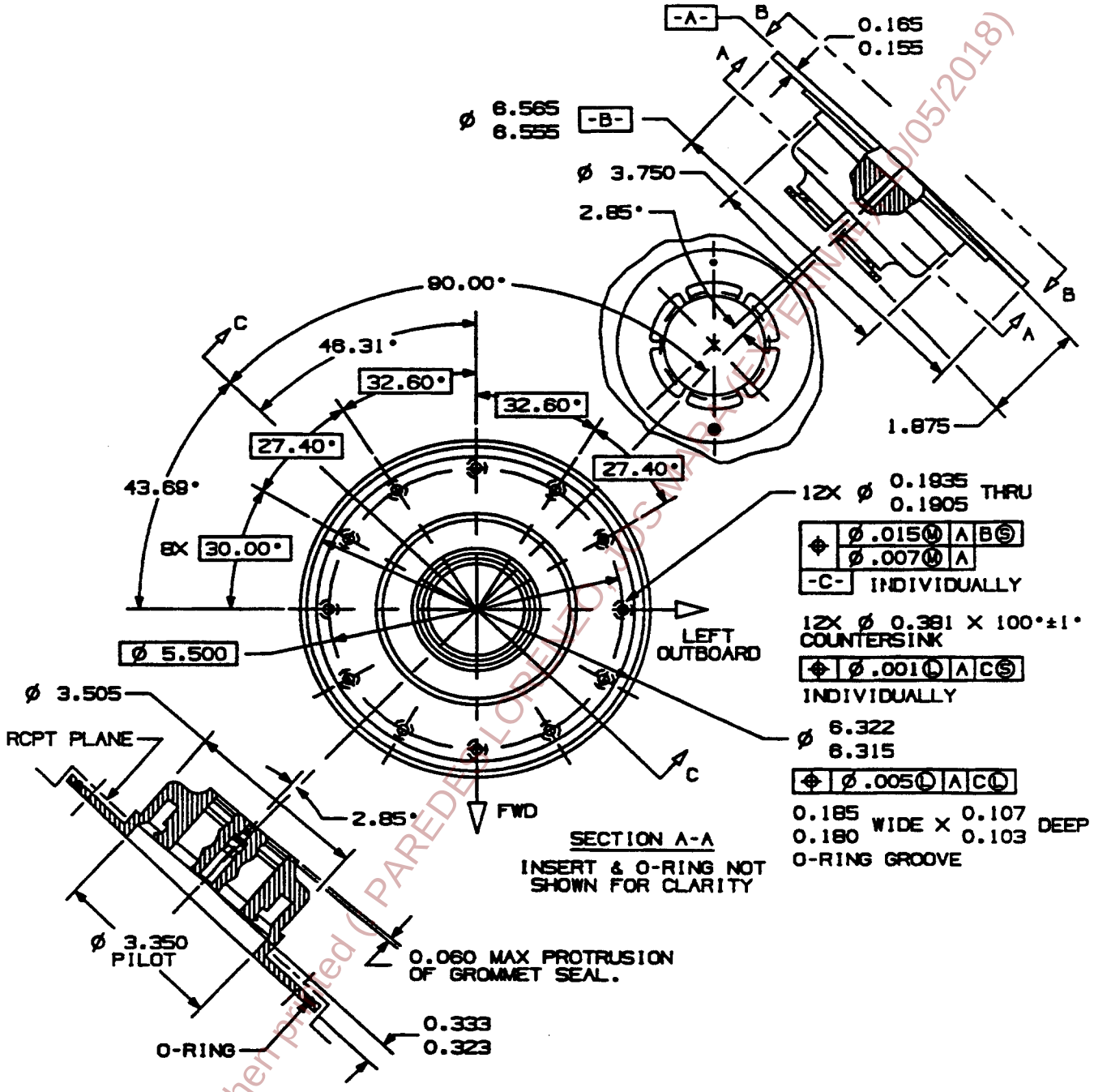
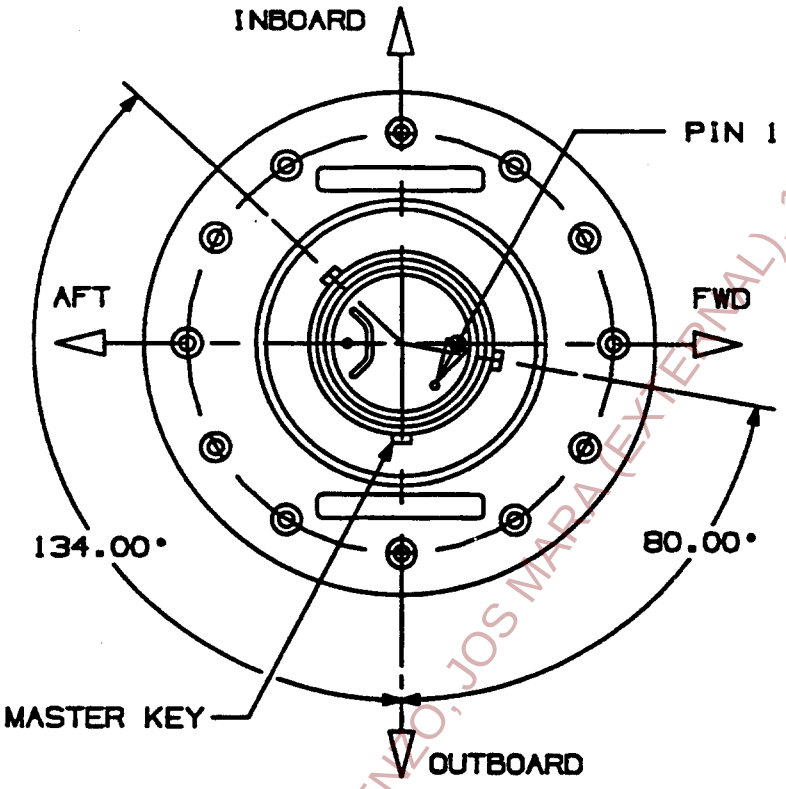


FIGURE 8 - DIMENSIONS & CONFIGURATION FOR

ST5M1487-502 RECEPTACLE Ⓜ

CAGE NO. 76301	ST5M1487 SHEET 8	REV Ⓜ

MAC3463BBEF (18 JAN 88)



VIEW B-B
ROTATED 2.62° CW

FIGURE 9 - ST5M1487-502 MOUNTING FLANGE DETAIL Ⓜ

MCDONNELL DOUGLAS

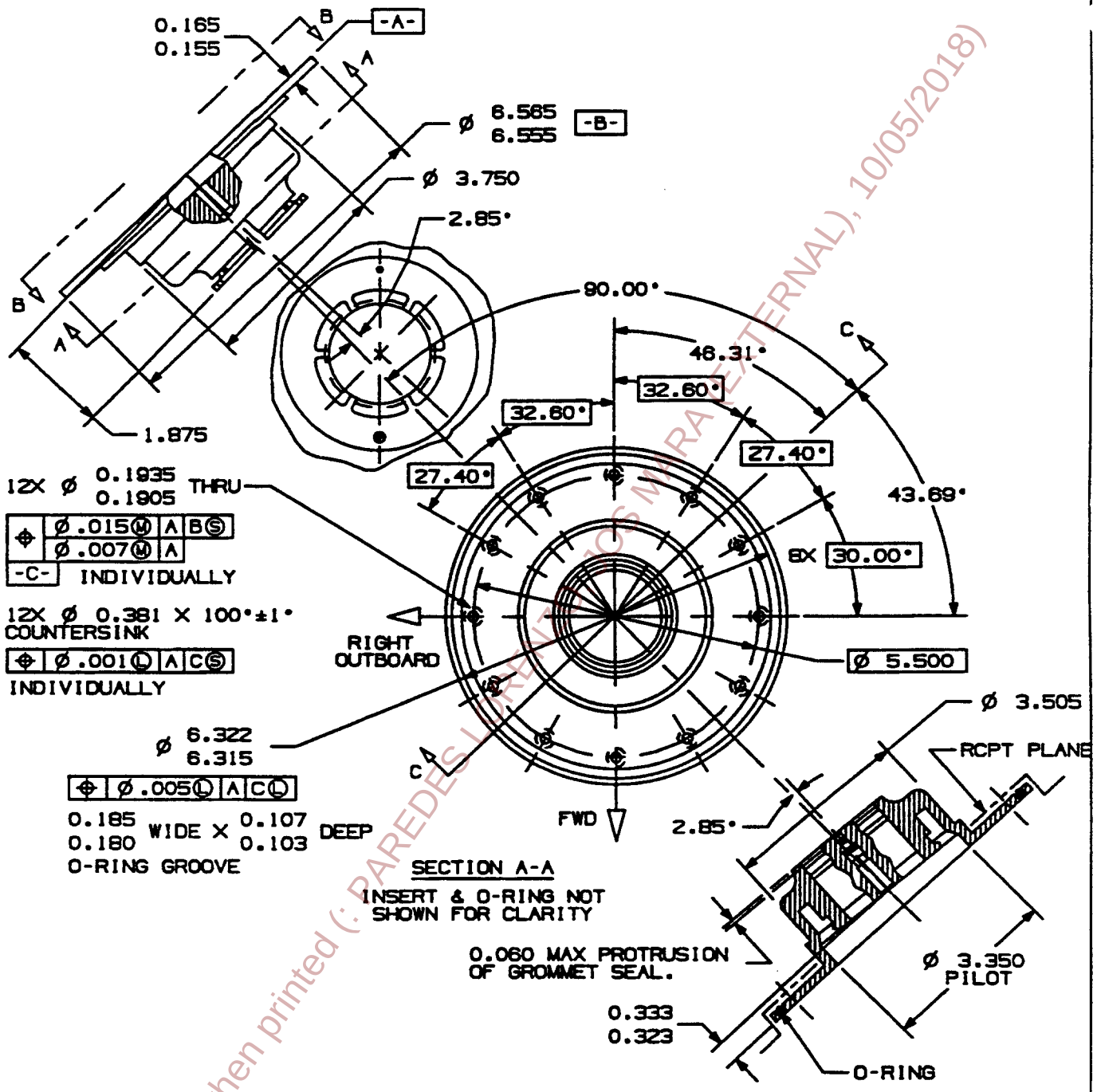
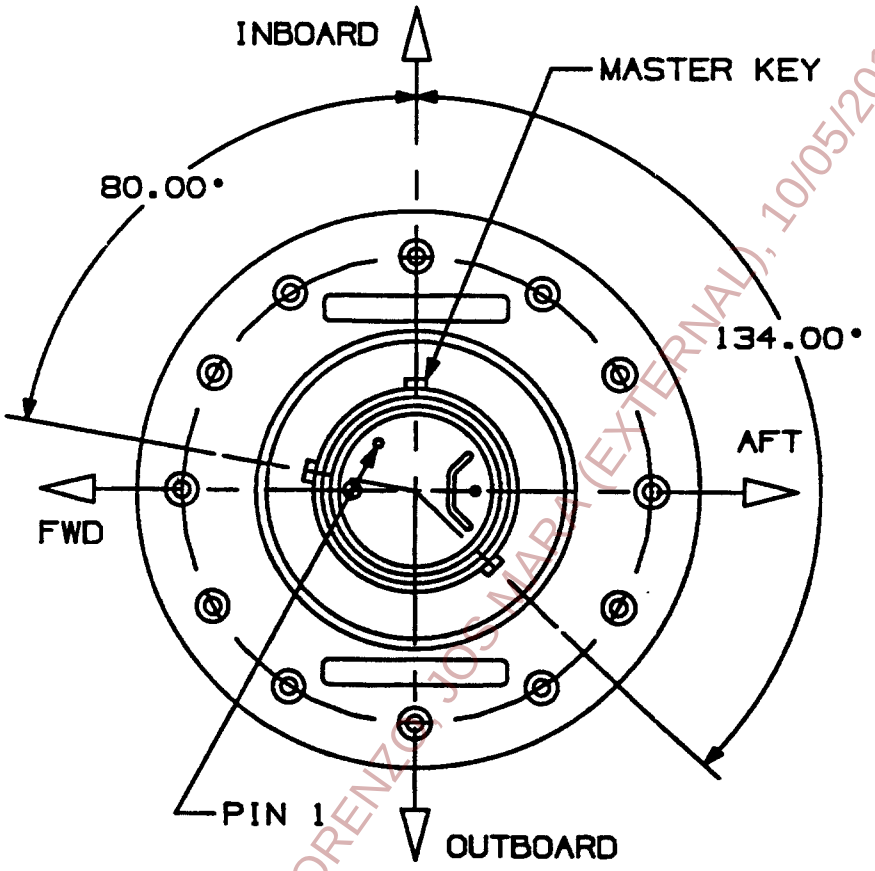


FIGURE 10 - DIMENSIONS & CONFIGURATION FOR

ST5M1487-506 RECEPTACLE Ⓜ

CAGE NO.		REV
76301	ST5M1487 SHEET 10	Ⓜ



VIEW B-B
ROTATED 2.62° CW

FIGURE 11 - ST5M1487-506 MOUNTING FLANGE DETAIL (M)

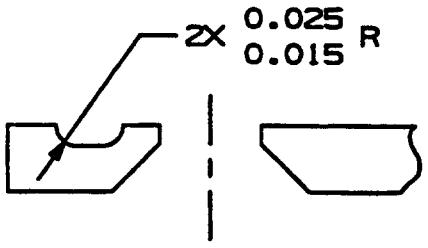


FIGURE 12 - O-RING GROOVE DETAIL FOR
ST5M1487-502 AND -506 MOUNTING FLANGE (M)

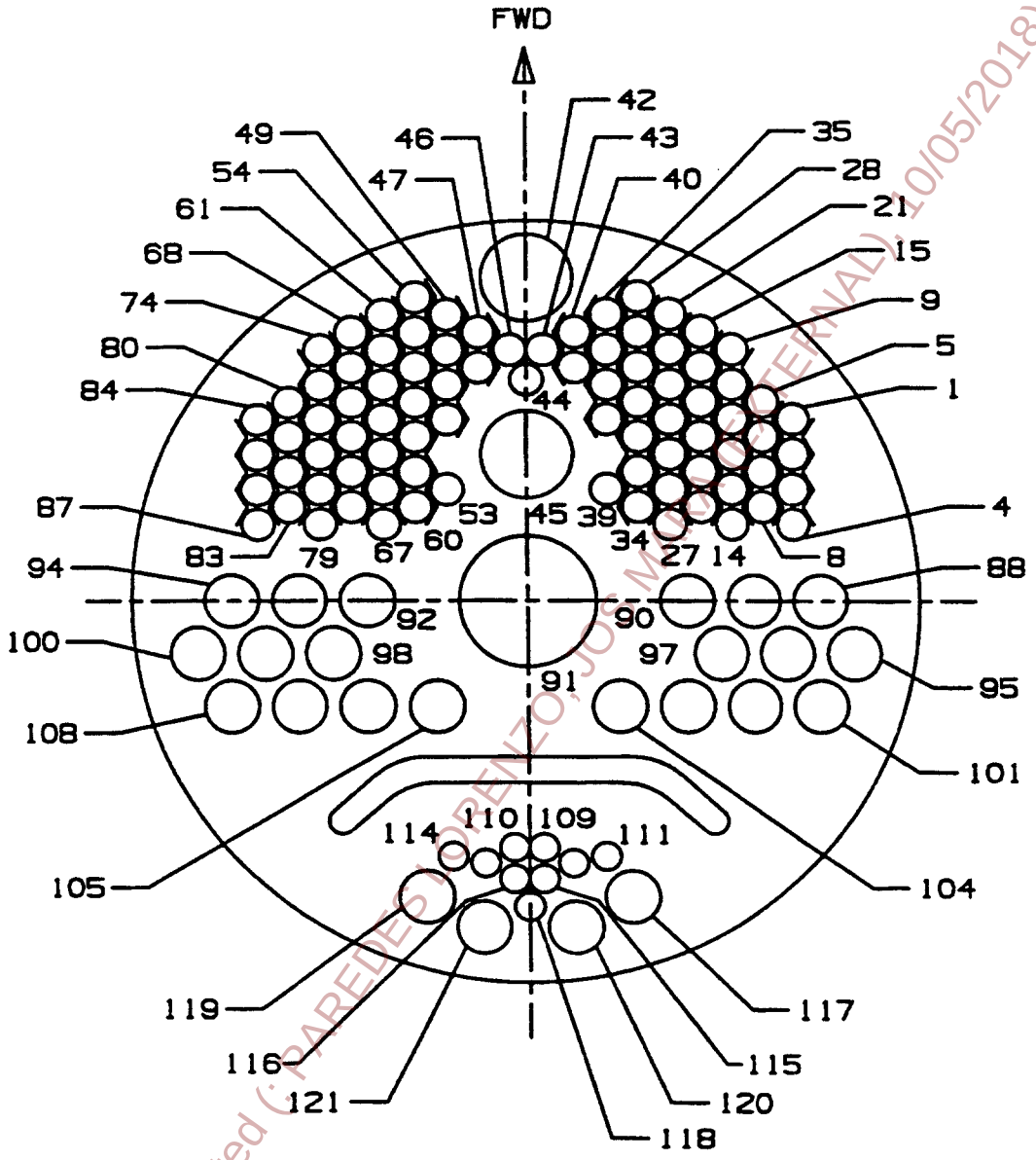


FIGURE 13 - INSERT ARRANGEMENT FOR ST5M1487-501, -502 AND -506 RECEPTACLES. VIEW OF MATING FACE. Ⓜ

CAGE NO. 76301	ST5M1487 SHEET 12	REV Ⓜ

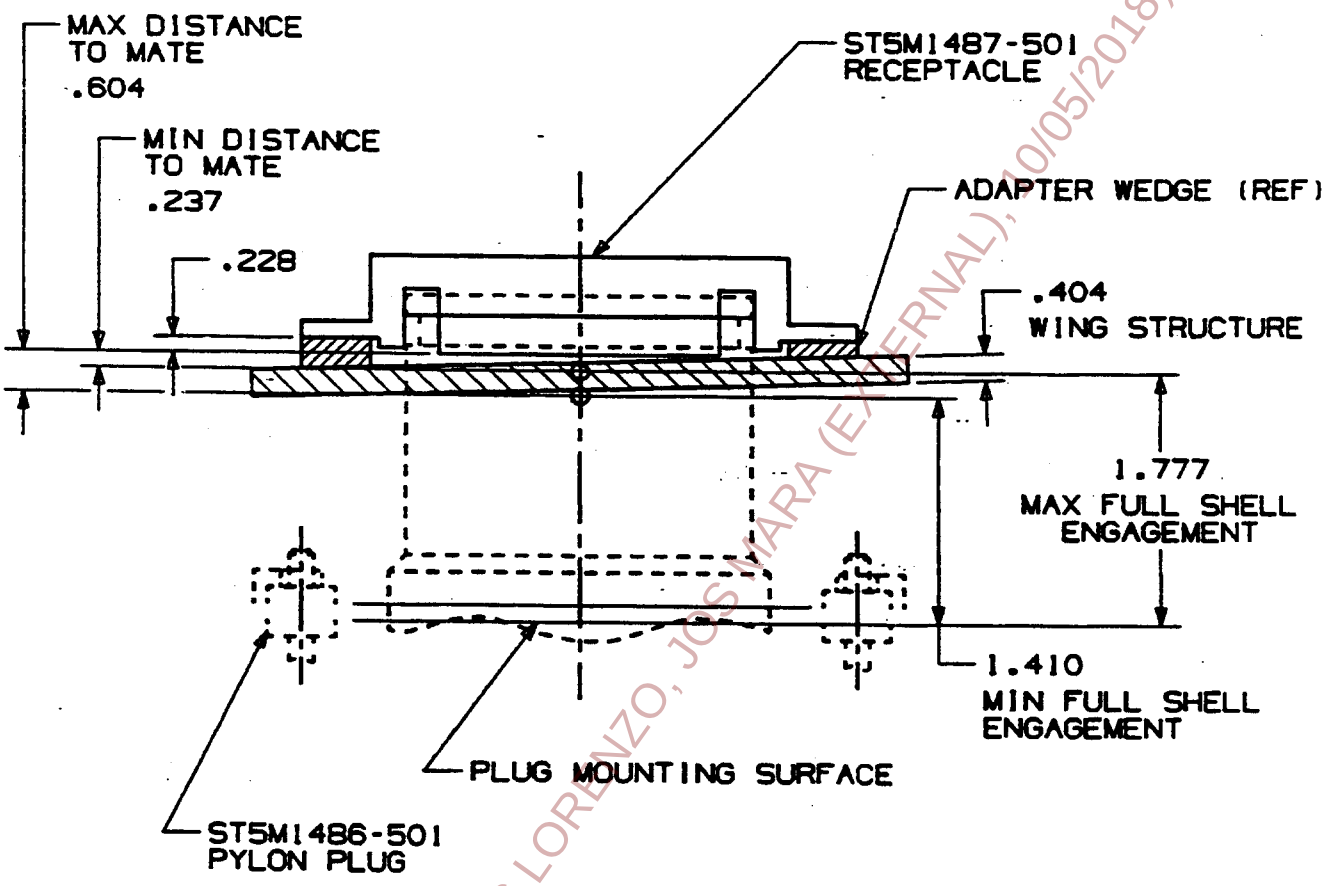


FIGURE 14

MATING REQUIREMENTS FOR ST5M1487-501 AND ST5M1486-501
SECTION CUT AT CENTER OF PYLON PLUG
AND RECEPTACLE INTERFACE

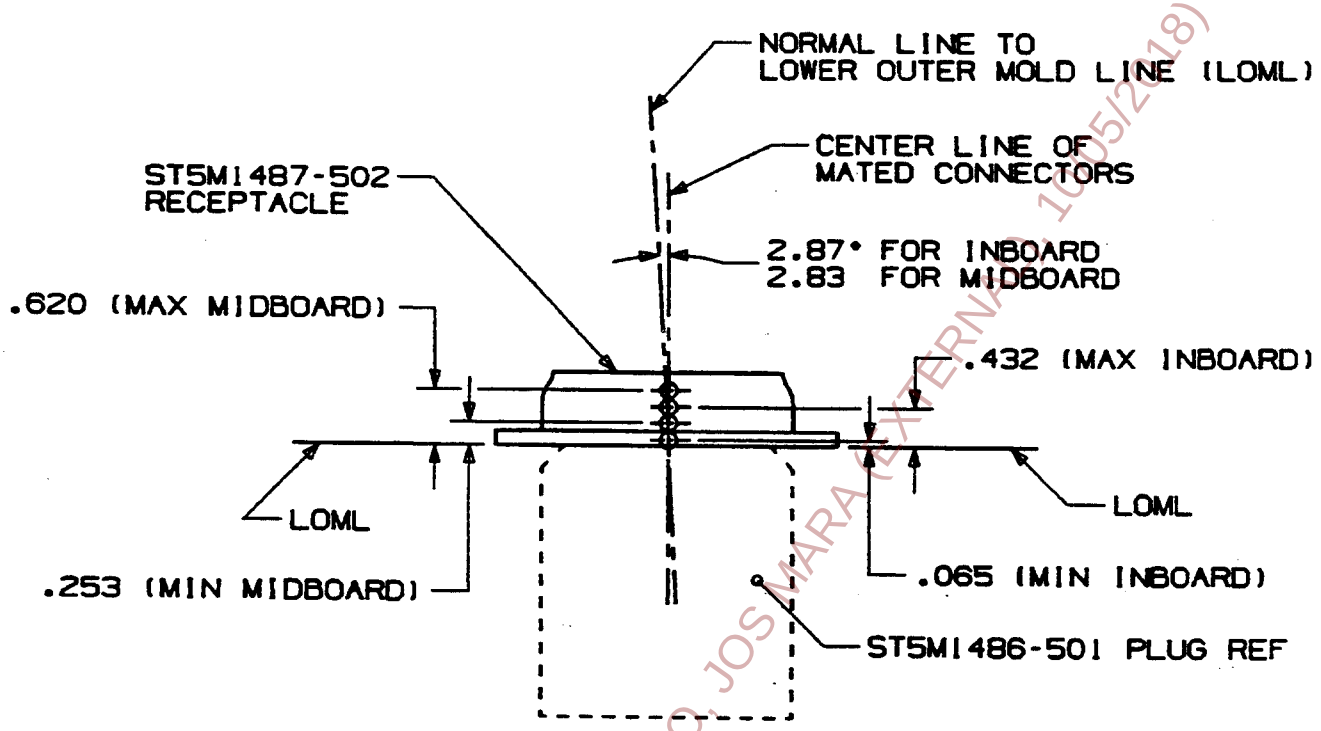


FIGURE 15

MINIMUM AND MAXIMUM FULL SHELL
ENGAGEMENT REQUIREMENTS FOR
ST5M1487-502 AND ST5M1486-501

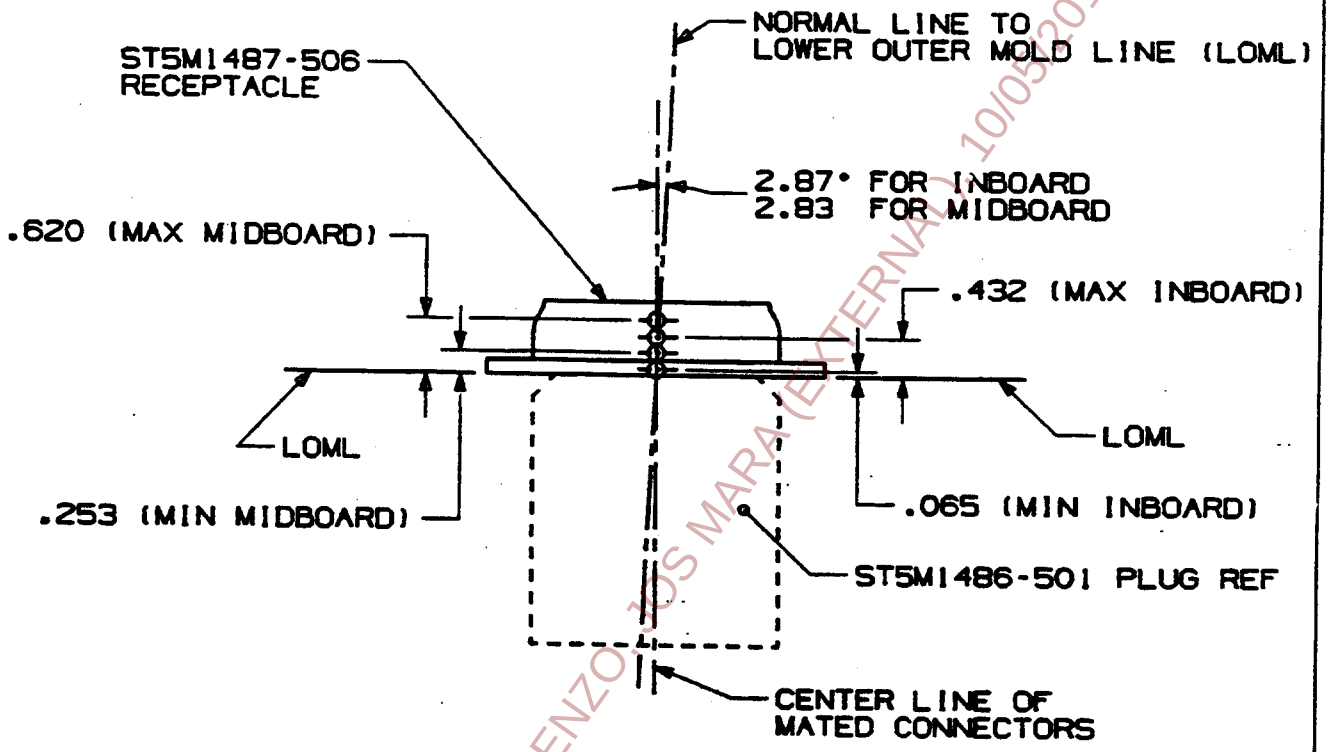


FIGURE 16

MINIMUM AND MAXIMUM FULL SHELL
ENGAGEMENT REQUIREMENTS FOR
ST5M1487-506 AND ST5M1486-501

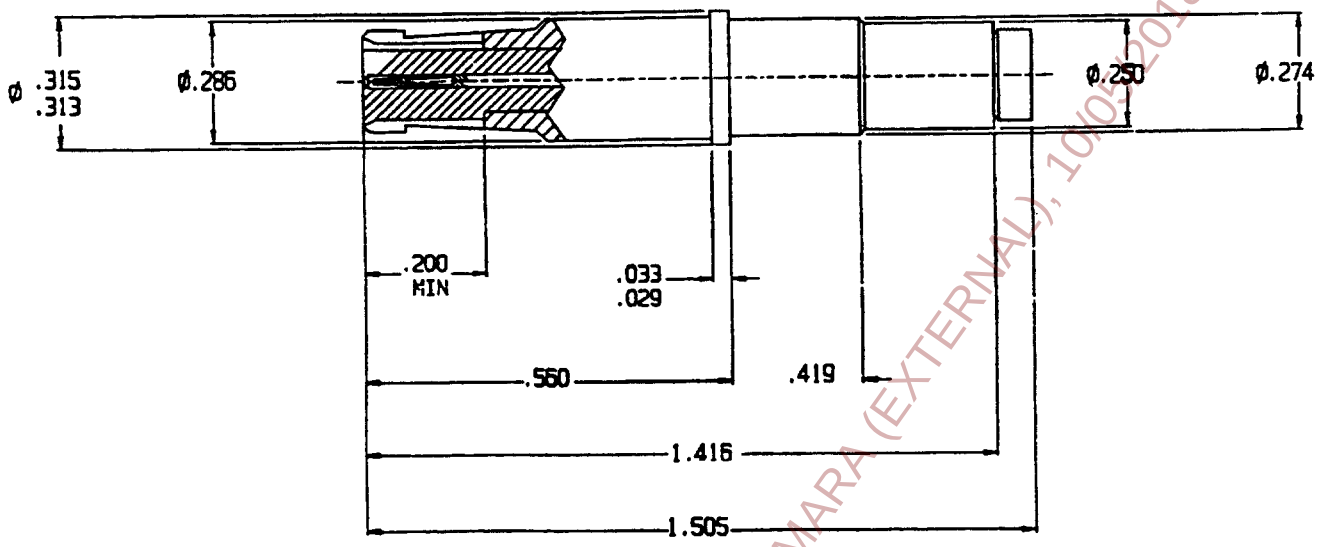
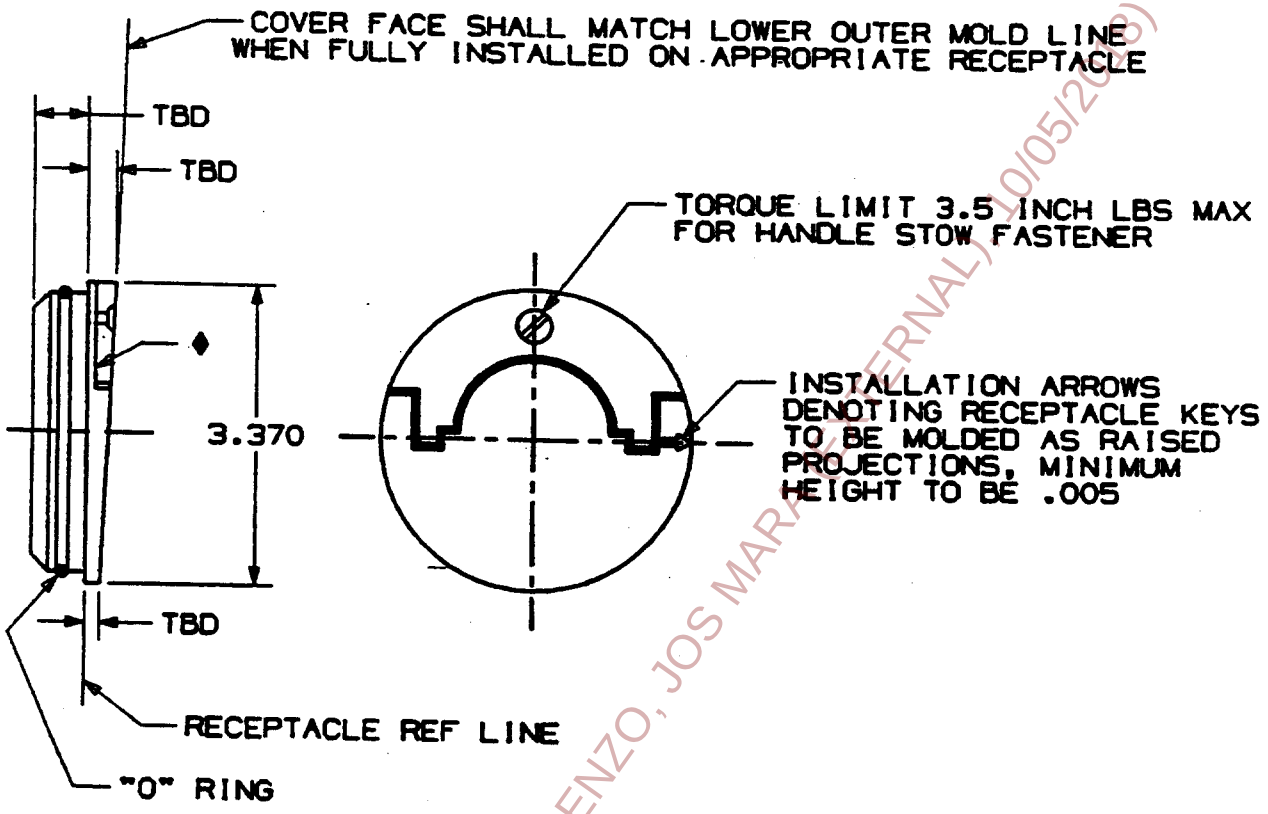


FIGURE 17 - DIMENSIONS AND CONFIGURATION FOR ST5M1487-503 COAXIAL SOCKET CONTACT



♦ VENDOR'S NAME, PART NUMBER, SERIAL NUMBER AND MDAE PART NUMBER TO BE LOCATED ON SURFACE BELOW HANDLE

FIGURE 18

DIMENSIONS AND CONFIGURATION FOR ST5M1487-504 AND -505 COVERS

1. SCOPE:
   1.1 THIS DOCUMENT DESCRIBES THE REQUIREMENTS FOR A FLANGE MOUNT ELECTRICAL RECEPTACLE. THE CONNECTOR IS DESIGNED TO MOUNT IN A WING SO THAT PROPER ENGAGEMENT AND ACTUATION OF AN ST5M1486 PLUG WILL OCCUR WHEN A WING PYLON IS ATTACHED.
   1.2 THESE PARTS SHALL BE SPECIFIED, PROCURED AND USED UNDER THE MCDONNELL DOUGLAS AEROSPACE - EAST (MDAE) APPROVED CALLOUT NUMBER.
   1.3 THE APPROVED CALLOUT SHALL CONSIST OF THE DOCUMENT NUMBER AND APPROPRIATE DASH NUMBERS AS SHOWN IN THE FOLLOWING EXAMPLE:

ST5M1487 - 002 CONNECTOR, RECEPTACLE
- 002: ASSIGNED DASH NUMBER. SEE TABLE I.
- ST5M1487: DOCUMENT NUMBER

TABLE I - ASSIGNED DASH NUMBERS

APPROVED CALLOUT	DESCRIPTION
ST5M1487-001	RECEPTACLE - WITH STRAIGHT STRAIN RELIEF ARM
ST5M1487-002	RECEPTACLE - MATES ST5M1486-003 PLUG. RECEPTACLE IS DESIGNED TO USE ST5M1487-009 BOOT AND ST5M1487-010 BRACKET.
ST5M1487-005	COVER - FOR ST5M1487-001 RECEPTACLE
ST5M1487-006	COVER - FOR ST5M1487-002 RECEPTACLE
ST5M1487-009	BOOT, 90° - DESIGNED TO BE USED WITH ST5M1487-002 AND ST5M1487-501 RECEPTACLES
ST5M1487-010	BRACKET - DESIGNED TO BE USED WITH ST5M1487-009 BOOT AND ST5M1487-002 AND ST5M1487-501 RECEPTACLES
ST5M1487-101	CONTACT, COAXIAL - FOR ST5M1487-001 RECEPTACLE
ST5M1487-102	CONTACT, TWINAXIAL - FOR ST5M1487-001 AND ST5M1487-002 RECEPTACLES
ST5M1487-201	CONTACT, COAXIAL - FOR ST5M1487-002 RECEPTACLE
ST5M1487-501	RECEPTACLE, DRY - MATES ST5M1486-501 AND ST5M1486-502 PLUGS
ST5M1487-502	RECEPTACLE, WET - MATES ST5M1486-501 AND ST5M1486-502 PLUGS
ST5M1487-503	CONTACT, SOCKET, COAXIAL - FOR ST5M1487-501, ST5M1487-502 AND ST5M1487-506 RECEPTACLES
ST5M1487-504	COVER - FOR ST5M1487-501 RECEPTACLE
ST5M1487-505	COVER - FOR ST5M1487-502 AND ST5M1487-506 RECEPTACLES
ST5M1487-506	RECEPTACLE, WET - MATES ST5M1486-501 AND ST5M1486-502 PLUGS

   1.4 PARTS SELECTED FROM THIS DOCUMENT REQUIRE APPROVAL FROM MDAE STANDARDS ENGINEERING AND THE APPLICABLE PROJECT PARTS CONTROL AUTHORITY.

2. APPLICABLE DOCUMENTS:
   2.1 THIS DOCUMENT IS THE CONTROLLING DOCUMENT AND TAKES PRECEDENCE OVER ALL REFERENCED DOCUMENTS.
   2.2 REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.
   2.3 THE FOLLOWING DOCUMENTS FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN:

SPECIFICATIONS:
INDUSTRY:
ASTM 1655

FEDERAL:
P-D-680 - DRY CLEANING AND DEGREASING SOLVENT
TT-S-735 - STANDARD TEST FLUIDS, HYDROCARBON

MILITARY:

MIL-C-17/111 - CABLE, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/111-RG303
MIL-C-5572 -
MIL-C-7024 - CALIBRATING FLUID, AIRCRAFT FUEL SYSTEM COMPONENTS
MIL-A-8625 - ANODIC COATINGS, FOR ALUMINUM AND ALUMINUM ALLOYS
MIL-L-22851 - LUBRICATING OIL, AIRCRAFT PISTON ENGINE, (ASHLESS DISPERSANT)
MIL-C-38999 - CONNECTORS, ELECTRICAL, CIRCULAR, MINIATURE, HIGH DENSITY, QUICK DISCONNECT (BAYONET, THREADED AND BREECH COUPLING), ENVIRONMENT RESISTANT, REMOVABLE CRIMP AND HERMETIC SOLDER CONTACTS, GENERAL SPECIFICATION FOR
MIL-C-39029/56 - CONTACT, ELECTRICAL CONNECTOR, SOCKET, CRIMP, REMOVABLE, FOR MIL-C-38999 SERIES I, III AND IV CONNECTORS
MIL-C-39029/91 - CONTACT, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE, SHIELDED, SIZE 8 (FOR MIL-C-38999 SERIES I, III AND IV CONNECTORS) (M)
MIL-C-39029/75 - CONTACT, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE, SHIELDED, SIZE 12, FOR SERIES I, III AND IV CONNECTORS
MIL-T-56243 -
MIL-C-83133 - TURBINE FUEL, AVIATION, KEROSENE TYPES, NATO F-34 (JP-8)

MDAE:

5M2530 - CONTACTS, ELECTRICAL CONNECTOR, TRIAXIAL, FOR MIL-C-38999 SERIES I AND III
ST5M1284 - CABLE RADIO FREQUENCY, TWIN CONDUCTOR, 98 OHM
25M18 - PYLON CONNECTOR, PLUG AND RECEPTACLE, QUICK DISCONNECT, GENERAL SPECIFICATION FOR
40M106 - ENGINEERING RESPONSIBILITIES AND TECHNICAL DATA REQUIREMENTS FOR PARTS

STANDARDS:

FEDERAL:

FED-STD-595 - COLORS USED IN GOVERNMENT PROCUREMENT

MILITARY:

MIL-STD-129 - MARKING FOR SHIPMENT AND STORAGE
MIL-STD-130 - IDENTIFICATION MARKING OF U.S. MILITARY PROPERTY
MIL-STD-1285 - MARKING OF ELECTRICAL AND ELECTRONIC PARTS

MDAE:

6M148 - INSTRUCTIONS REGARDING PROCUREMENT, INSPECTION, AND INTERCHANGEABILITY INFORMATION ON STANDARD PART DOCUMENTS (M)

3. REQUIREMENTS: THE CONNECTOR SHALL MEET THE REQUIREMENTS OF MIL-C-38999 AS MODIFIED AND EXPANDED BY 25M18 AND THIS DOCUMENT.
   3.1 PROCUREMENT SPECIFICATION: 25M18
   3.2 MATERIAL:
      3.2.1 ST5M1487-001, -002, AND -501 RECEPTACLES AND BRACKET: SHALL BE PER MIL-C-38999, CLASS T (ALUMINUM ALLOY SHELL).
      3.2.2 ST5M1487-502 AND -506 RECEPTACLES: SHALL BE CORROSION RESISTANT STEEL.
      3.2.3 COVERS: ZYTEL 101, GLASS REINFORCED NYLON, GRAY COLOR 16440 PER FED-STD-595.
      3.2.4 CONTACTS: CONTACTS SHALL BE COPPER OR COPPER ALLOY.
      3.2.5 BOOT: THE BOOT SHALL BE A RESILIENT ELASTOMER.
      3.2.6 O-RING: TBD
   3.3 FINISH:
      3.3.1 ST5M1487-001 RECEPTACLE AND BRACKET: PLUG MATING INTERFACE SHALL BE DUPLEX SEALED HARD ANODIZE PER MIL-A-8625. MOUNTING SURFACE AND OUTSIDE EXTERIOR SHALL BE CADMIUM PLATE.
      3.3.2 ST5M1487-002 RECEPTACLE AND BRACKET: PARTS SHALL BE CADMIUM PLATED ALL OVER. FINISH SHALL BE SUITABLE TO WITHSTAND 500 HOUR SALT SPRAY TEST IN ACCORDANCE WITH 25M18.
      3.3.3 ST5M1487-501 RECEPTACLE SHALL BE OLIVE DRAB CADMIUM PLATED OVER ALL OVER. FINISH SHALL BE SUITABLE TO WITHSTAND 500 HOUR SALT SPRAY TEST IN ACCORDANCE WITH 25M18.
      3.3.4 ST5M1487-502 AND ST5M1487-506 RECEPTACLES SHALL BE TBD. FINISH SHALL BE SUITABLE TO WITHSTAND 500 HOUR SALT SPRAY TEST IN ACCORDANCE WITH 25M18.
      3.3.5 ST5M1487-503 CONTACT SHALL BE GOLD PLATED TO A MINIMUM THICKNESS OF 50 MICROINCHES IN ACCORDANCE WITH MIL-G-45204 OVER A SUITABLE UNDERPLATE. SILVER UNDERPLATE SHALL NOT BE USED. GOLD PLATING SHALL BE APPLIED TO THE CONTACT MATING SURFACES AS A MINIMUM.

3.4 IDENTIFICATION OF PRODUCT: PARTS SHALL BE MARKED IN ACCORDANCE WITH 25M18.
3.5 DIMENSIONS AND CONFIGURATION: SEE FIGURES 1 THRU 18.
3.6 WEIGHT: SEE TABLE II.

TABLE II - WEIGHTS

APPROVED CALLOUT	WEIGHT IN POUNDS, MAXIMUM
ST5M1487-001	TBD
ST5M1487-002	TBD
ST5M1487-005	.25
ST5M1487-006	.25
ST5M1487-009	.25
ST5M1487-010	TBD
ST5M1487-501	.25
ST5M1487-502	TBD
ST5M1487-503	TBD
ST5M1487-504	TBD
ST5M1487-505	TBD
ST5M1487-506	TBD

3.7 MECHANICAL:
3.7.1 THE HANDLE STOW FASTENER ON ST5M1487-005, -006 -504 AND -505 SHALL BE CAPTIVATED.
3.7.2 SHELL ENGAGEMENT FORCE: 75 POUNDS MAXIMUM.
3.7.3 INSERT ARRANGEMENT: SEE FIGURE 3 AND TABLE III FOR THE ST5M1487-001 AND ST5M1487-002 INSERTS. SEE FIGURE 13 AND TABLE IV FOR THE ST5M1487-501, -502 AND -506 INSERTS.

TABLE III - INSERT DATA FOR ST5M1487-001 AND -002

CONTACT PART NUMBER	CONTACT SIZE	QUANTITY OF CONTACTS PER SECTION			CONTACT CAVITY LOCATIONS
		A	B	C	
M39029/56-348	22D	15	75	--	1, 3 THRU 50, 54 THRU 61, 65, 72, 79, 92, 93, 104 THRU 118, 120, 121, 122, 124 THRU 131, 134, 137
M39029/56-351	20	8	30	--	51, 52, 53, 62, 63, 64, 66 THRU 71, 73 THRU 78, 80 THRU 91, 132, 133, 135, 136, 138 THRU 141
M39029/56-352	16	2	10	--	94 THRU 103, 119, 123
ST5M1487-101 (FOR -001)	COAXIAL	--	--	1	142
ST5M1487-201 (FOR -002)	COAXIAL	--	--	1	142
ST5M1487-102	TWINAXIAL	--	1	--	2

TABLE IV - INSERT DATA FOR ST5M1487-501, -502 AND -506

CONTACT PART NUMBER	CONTACT SIZE	QUANTITY	CONTACT CAVITY LOCATIONS
M39029/56-348	22D	94	1 THRU 41, 43, 44, 46 THRU 86, 109 THRU 116 AND 118
M39029/56-352	16	24	88, 89, 90, 92 THRU 108, 117, 119 AND 121
M39029/75-416	12	1	42
5M2530A10S	10	1	45
ST5M1487-503	8	1	91

3.7.4 CONTACTS: CONTACTS MUST BE ORDERED SEPARATELY EXCEPT AS NOTED HEREIN.

3.7.4.1 SIZE 22D, 20, 16 AND 12 GAGE SOCKET CONTACTS SHALL BE PER MIL-C-39029/56, MIL-C-39029/75 AND TABLE V.

TABLE V - STANDARD CONTACTS

CONTACT SIZE	CONTACT PART NUMBER
22D	M39029/56-348
20	M39029/56-351
16	M39029/56-352
12	M39029/75-416

3.7.4.2 COAXIAL CONTACTS, ST5M1487-101 AND -201, SHALL ACCEPT RG400 CABLE.

3.7.4.3 TWINAXIAL CONTACT, ST5M1487-102, SHALL ACCEPT ST5M1284-001 CABLE.

3.7.4.4 COAXIAL CONTACT, ST5M1487-503, SHALL ACCEPT M17/111-RG303. CONTACT SHALL MEET ALL REQUIREMENTS OF MIL-C-39029/91 EXCEPT AS NOTED IN FIGURE 17. (M)

3.7.4.5 COAXIAL AND TWINAXIAL CONTACTS SHALL BE SUPPLIED WITH THE ST5M1487-001 AND -002 RECEPTACLES. SEE TABLE VI.

TABLE VI - SUPPLIED CONTACTS

APPROVED CALLOUT	CONTACT PART NUMBERS	
	COAXIAL	TWINAXIAL
ST5M1487-001	ST5M1487-101	ST5M1487-102
ST5M1487-002	ST5M1487-201	ST5M1487-102

3.7.5 ALIGNMENT AND ENGAGEMENT TOLERANCES: SEE FIGURES 14, 15 AND 16 FOR ST5M1487-501, -502 AND -506.

3.7.6 MATING REQUIREMENTS: THE ST5M1487-501, -502 AND -506 SHALL BE DESIGNED TO MATE ST5M1486-501 PYLON PLUG.

3.7.7 REAR ACCESSORY DESIGN: THE ST5M1487-502 AND -506 SHALL BE DESIGNED TO BE A PART OF A MOLDED CABLE ASSEMBLY. THE INTERFACE AREA OF THE RECEPTACLE AND CABLE MOLD MATERIAL SHALL BE DESIGNED TO PROVIDE A LEAKPROOF SEAL FOR THE FLUIDS LISTED IN PARAGRAPH 3.9.3 AT THE PRESSURES AND TEMPERATURES LISTED IN PARAGRAPH 3.9.4.

3.7.8 FUEL COMPATIBILITY: THE ST5M1487-502 AND -506 SHELL MATERIAL AND FINISH SHALL BE DESIGNED TO BE COMPATIBLE WITH THE FLUIDS LISTED IN PARAGRAPH 3.9.3.

3.8 ELECTRICAL:

3.8.1 CONTACT RESISTANCE: PER MIL-C-38999.

3.8.2 DIELECTRIC WITHSTANDING VOLTAGE: THE REQUIREMENTS OF MIL-C-38999 APPLY EXCEPT SERVICE RATINGS SHALL BE AS SPECIFIED IN TABLE VII.

3.8.2.1 CONTACTS WITHIN AN INSERT SECTION (SEE FIGURES 3 AND 13) SHALL BE SUBJECTED TO THE SERVICE RATING I TEST LEVELS.

3.8.2.2 CONTACTS TO SHELL AND CONTACTS BETWEEN INSERT SECTIONS (SEE FIGURES 3 AND 13) SHALL BE SUBJECTED TO THE SERVICE RATING II TEST LEVELS.

3.8.2.3 COAXIAL CONTACTS SHALL BE TESTED TO 1,050 VOLTS RMS AT SEA LEVEL BETWEEN THE CENTER CONTACT AND OUTER CONTACT. THE OUTER CONTACT OF ALL COAXIAL CONTACTS SHALL BE TESTED TO ADJACENT CONTACTS AND SHELL PER 3.8.2.1 AND 3.8.2.2.

TABLE VII - TEST VOLTAGES

ALTITUDE	VOLTS AC RMS, 60 HERTZ			
	SERVICE RATING I		SERVICE RATING II	
	MATED	UNMATED	MATED	UNMATED
SEA LEVEL	1,500	1,500	2,300	2,300
50,000 FEET	800	600	1,000	800
70,000 FEET	800	400	1,000	500

3.9 ENVIRONMENTAL: ENVIRONMENTAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH MIL-C-38999 CLASS T AND AS SPECIFIED IN 25M18.

3.9.1 TEMPERATURE RANGE: -65 TO + 150°C.

3.9.2 ALTITUDE: 70,000 FEET.

3.9.3 FLUID COMPATIBILITY (APPLIES TO ST5M1487-502 AND ST5M1487-506): RECEPTACLE SHALL BE RESISTANT TO FLUIDS CONFORMING TO MIL-G-5572, GRADES 80/87, 100/130, AND 115/145 DILUTED WITH 3 PERCENT BY VOLUME WITH OIL CONFORMING TO MIL-L-22851 TYPE II; MIL-C-83133, TYPES JP-8 AND JET A-1; ASTM1655, JET A; MIL-T-56243, GRADES JP-4 AND JP-5, MIL-C-7024 OF AROMATIC CONTENT FROM 0 TO 30 PERCENT, TYPE I, AND TYPE III OF TT-S-735 TEST FLUID AND TYPE II OF P-D-680 SOLVENT (STODDARD) TO ASSURE SATISFACTORY OPERATION AS DEFINED HEREIN.

3.9.3.1 METALS: ALL METAL PARTS, OTHER THAN ELECTRIC CURRENT CARRYING PARTS, SHALL BE CORROSION RESISTANT METAL OR SHALL BE SUITABLY PLATED TO RESIST CORROSION. METAL PLATING OR METAL SPRAYING OF DISSIMILAR BASE METAL TO PROVIDE SIMILAR OR SUITABLE ABUTTING SURFACES IS PERMITTED. ANY SUCH PLATING OR SPRAY USED SHALL OFFER A LOW IMPEDANCE PATH TO RADIO FREQUENCY CURRENT. THE USE OF MAGNESIUM OR MAGNESIUM ALLOY IS PROHIBITED. THE USE OF CADMIUM, ZINC, COPPER OR ANY OF ITS ALLOYS ARE PROHIBITED WHEN IN CONTACT WITH FUEL OR A FUEL-AIR MIXTURE. THE USE OF 400 SERIES STAINLESS STEEL REQUIRES APPROVAL FROM MDA.

3.9.3.2 NONMETALS: ENVIRONMENTALLY EXPOSED NONMETALS, INCLUDING PLASTICS, FABRICS AND PROTECTIVE FINISHES, SHALL BE MOISTURE AND FLAME RESISTANT AND SELF EXTINGUISHING. SUCH MATERIALS SHALL NOT BE CAPABLE OF SUPPORTING FUNGUS GROWTH, AND SHALL NOT BE ADVERSELY AFFECTED BY WEATHERING AND AIRCRAFT FLUIDS.

3.9.4 SEALING: ST5M1487-502 AND -506, WHEN NORMALLY MOUNTED, SHALL PROVIDE A LEAK PROOF SEAL FOR THE FLUIDS LISTED IN 3.9.3 AT A PROOF PRESSURE OF 120 PSI. (M)

4. QUALITY ASSURANCE PROVISIONS:

4.1 MDAE RESERVES THE RIGHT TO PERFORM ALL INSPECTIONS AND/OR TESTS TO ENSURE COMPLIANCE WITH THIS SPECIFICATION AND TO ACCEPT OR REJECT LOTS IN ACCORDANCE WITH MDAE'S QUALITY ASSURANCE PROVISIONS.

4.2 QUALIFICATION INSPECTION: QUALIFICATION IN ACCORDANCE WITH 25M18 IS REQUIRED.

4.3 QUALITY CONFORMANCE INSPECTION: ACCEPTANCE TESTS SHALL BE IN ACCORDANCE WITH 25M18.

4.4 ENGINEERING RESPONSIBILITIES AND TECHNICAL DATA REQUIREMENTS SHALL BE PER 40M106.

5. PREPARATION FOR DELIVERY:

5.1 PACKAGING: PACKAGING SHALL BE IN ACCORDANCE WITH MIL-STD-130.

5.2 PACKAGE MARKING: ALL INTERIOR PACKAGES SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-129. INTERIOR PACKAGES SHALL ALSO BE DURABLY MARKED WITH THE COMPLETE MDAE APPROVED CALLOUT NUMBER.

6. NOTES:
   6.1 OPERATING TEMPERATURE RANGE: -65 TO + 150°C.
   6.2 APPLICATION NOTES:
      6.2.1 THE ST5M1487-001 AND -002 RECEPTACLES ARE DESIGNED TO MATE WITH THE ST5M1486-003 PLUG. THESE RECEPTACLES MEET THE WING MOLD-LINE REQUIREMENTS OF THE F/A-18 C/D AIRCRAFT. USE THE ST5M1487-005 COVER ON THE ST5M1487-001 RECEPTACLE AND THE ST5M1487-006 COVER ON THE ST5M1487-002 RECEPTACLE.
      6.2.2 THE ST5M1487-501, -502 AND -506 RECEPTACLES ARE DESIGNED TO MATE WITH BOTH ST5M1486-501 AND -502 PLUGS. THESE RECEPTACLES ARE DESIGNED TO MEET THE WING MOLD-LINE REQUIREMENTS OF THE F/A-18 E/F AIRCRAFT. USE THE ST5M1487-504 COVER ON THE ST5M1487-501 RECEPTACLE AND THE ST5M1487-505 COVER ON THE ST5M1487-502 AND -506 RECEPTACLES.
      6.2.3 THE ST5M1487-501 IS DESIGNED TO BE USED ON THE LEFT AND RIGHT WING, OUTBOARD PYLON STATIONS. AN MDAE DESIGNED WEDGE ADAPTER IS REQUIRED FOR INSTALLATION.
      6.2.4 THE ST5M1487-502 IS DESIGNED TO BE USED ON THE LEFT WING, INBOARD AND MIDBOARD PYLON STATIONS. THE RECEPTACLE IS DESIGNED TO BE A PART OF A MOLDED CABLE ASSEMBLY WHICH WILL BE INSTALLED SUBMERGED IN A FUEL CELL.
      6.2.5 THE ST5M1487-506 IS DESIGNED TO BE USED ON THE RIGHT WING, INBOARD AND MIDBOARD PYLON STATIONS. THE RECEPTACLE IS DESIGNED TO BE A PART OF A MOLDED CABLE ASSEMBLY WHICH WILL BE INSTALLED SUBMERGED IN A FUEL CELL.

INFORMATION BELOW THIS LINE IS NOT PERTINENT TO ENGINEERING DESIGN

APPROVED CALLOUT	APPROVED VENDOR AND VENDOR'S DESIGNATION ▲		SUPERSEDED PARTS NOT APPROVED FOR PROCUREMENT SEE 6M148 FOR DISPOSITION DIRECTIONS
	99447	14949 (M)	99447
ST5M1487-001	885-200-001	—	NONE
ST5M1487-002	885-200-003	—	USE 885-200-002
ST5M1487-005	885-300-002	—	USE 885-300-001
ST5M1487-006	885-300-004	—	USE 885-300-003
ST5M1487-009	885-325-001	—	NONE
ST5M1487-010	885-326-001	—	NONE
ST5M1487-101	885-270-001	—	NONE
ST5M1487-102	885-213-001	—	NONE
ST5M1487-201	885-270-002	—	NONE
ST5M1487-501	885-1200-001	—	NONE
ST5M1487-502	885-800-001	—	NONE
ST5M1487-503	885-820-001	105-1518-2	NONE
ST5M1487-504	885-900-001	—	NONE
ST5M1487-505	885-900-002	—	NONE
ST5M1487-506	885-800-002	—	NONE

MCDONNELL DOUGLAS

PROCUREMENT REQUIREMENTS: ST5M1487 (REV M)

RECEIVING INSPECTION REQUIREMENTS: ST5M1487 (REV M)

▲ APPROVED VENDOR'S NAME AND CAGE CODE:

VENDOR CAGE CODE	VENDOR NAME AND ADDRESS
99447	G & H TECHNOLOGY, INC., SANTA MONICA, CA
14949	TROMPETER ELECTRONICS, INC., WESTLAKE VILLAGE, CA Ⓜ

THE ABOVE LISTED VENDORS AND DESIGNATIONS, WHEN APPLICABLE, ARE THE ONLY ITEMS AND SOURCES FOR PARTS SHOWN HEREON APPROVED FOR PROCUREMENT AND/OR USE ON MDAE PRODUCTS. VENDORS OF COMPETITIVE ARTICLES MAY APPLY TO MDAE STANDARDS ENGINEERING FOR APPROVAL AS A SOURCE OF SUPPLY.