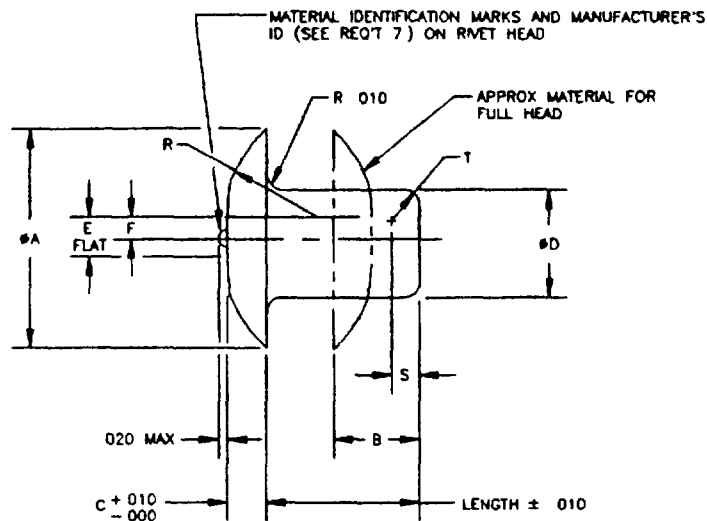


THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION MIL-R-5674

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Form Approved
OMB No 0704-0188

MATERIAL IDENTIFICATION MARKS

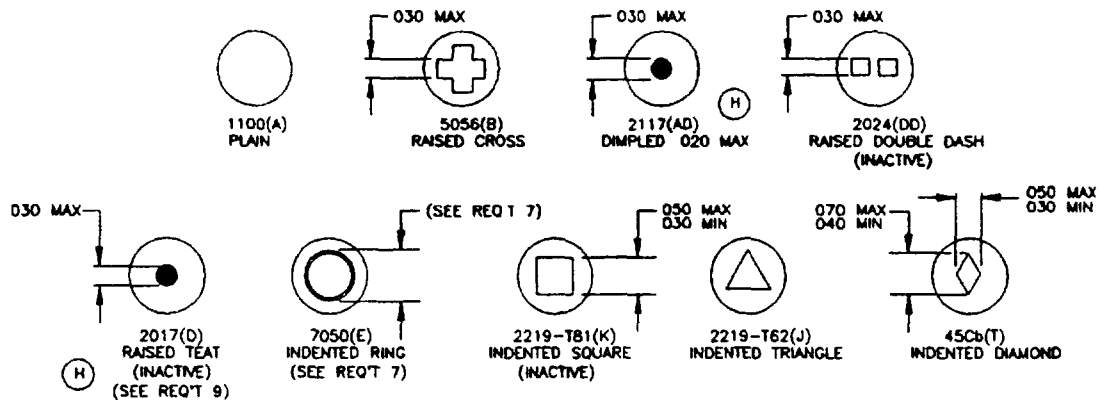


TABLE I. RIVET DIMENSIONS.

| NOM DIA | #D | #A | B | C | E | F | R | S | T RAD |
|---------|-----------|------------|-----|------|-----|-----|-----|-----|-------|
| 1/16 | 062 | 125 ± 006 | 094 | .027 | 031 | 015 | 054 | 016 | 019 |
| 3/32 | 094 | 187 ± 009 | 141 | 040 | 046 | 023 | 082 | 023 | 029 |
| 1/8 | 125 | 250 ± 012 | 188 | .054 | 062 | 031 | 108 | 031 | 039 |
| 5/32 | 156 + 003 | .312 ± 016 | 234 | .067 | 078 | 039 | 135 | 039 | 049 |
| 3/16 | 187 - 001 | .375 ± 019 | 281 | 080 | 093 | 046 | 164 | 047 | 059 |
| 7/32 | 219 | .437 ± 022 | 328 | 093 | 109 | 054 | 193 | 054 | 069 |
| 1/4 | 250 | .500 ± 025 | 375 | 107 | 125 | 062 | 217 | 062 | 078 |
| 5/16 | 312 | .625 ± 031 | 469 | 133 | 156 | 078 | 272 | 078 | 098 |
| 3/8 | 375 | .750 ± 037 | 562 | 161 | 187 | 093 | 328 | 094 | 117 |

1/ TOLERANCE CHANGE APPLIES TO RIVETS MANUFACTURED AFTER 2 JULY 1990

(H) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY NAVY-AS
CUSTODIANS ARMY-AR NAVY-
AIR FORCE-99 DLA-
REVIEW-AY, GL, IS, ME, MI, OS, 82
USER MC
PROJECT NUMBER 5320-0806
DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET

TITLE

RIVET, SOLID UNIVERSAL HEAD,
ALUMINUM ALLOY AND TITANIUM
COLUMBIUM ALLOY

SPECIFICATION SHEET NUMBER

MS20470

14 SEP 83
REV H

SUPERSEDING

MS20470 G

28 JAN 91

AMSC-

N/A

FSC 5320

A. Approved for public release distribution is unlimited

Page 1 of 3

DD Form 672, MAY 88

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

Form Approved
OMB No 0704-0188

REQUIREMENTS.

- 1 RIVETS MAY BE FURNISHED WITH PLAIN ENDS, OR ENDS CHAMFERED UP TO 20° TO THE "S" DIMENSION OR MAY HAVE A RADIUS TO THE "T" DIMENSION
- 2 MATERIAL ALUMINUM 1100-F (A91100) AND ALUMINUM ALLOYS 2017-T4 (A92017) 2024-T4 (A92024) 2117-T4 (A92117) 2219-T81 (A92119) 2219-T62 (A92119), 5056-H32 (A95056) 7050-T73 (A97050) PER QQ-A-430 AND TITANIUM COLUMBIUM ALLOY 45Cb (R58450) PER AMS 4982
- 3 FOR PART NUMBERS OF RIVET LENGTH NOT LISTED SHOW 1/16 INCREMENT REQUIRED
- 4 ADDITIONAL 1/32 LENGTH INCREMENTS MAY BE OBTAINED BY ADDING -5 AFTER THE LAST DIGIT OR LETTER IN PART NUMBER
- 5 EXAMPLE OF PART NUMBER

MS20470 AD 4 - 12 A -5 = ALUMINUM ALLOY 2117-T4 RIVET, 1/8 DIA. (3/4 + 1/32) LONG ANODIZE CLEAR

- INDICATES ADDITIONAL 1/32 INCH INCREMENT IN LENGTH
- NO CODE INDICATES CHEMICAL SURFACE TREATMENT PER MIL-C-5541 CLASS 1A, GOLD/YELLOW
- "A" INDICATES ANODIZE PER MIL-A-8625 TYPE II CLASS 1, CLEAR
- "D" INDICATES ANODIZE PER MIL-A-8625 TYPE II CLASS 1, DICHROMATE SEAL
- "F" INDICATES OPTION OF ANY FINISH EXCEPT AS NOTED BELOW
- "S" INDICATES CHEMICAL SURFACE TREATMENT PER MIL-C-5541 CLASS 1A CLEAR
- "N" INDICATES ANODIZE PER MIL-A-8625 TYPE II CLASS 2

NOTE FOR 1100 AL CHEMICAL SURFACE TREATMENT PER MIL-C-5541 CLASS 1A, GOLD/YELLOW (NO CODE)

FOR 2024 AL ANODIZE PER MIL-A-8625 TYPE II CLASS 1 DICHROMATE SEAL OR CLEAR OR CLASS 2 WITH SPECIFIED COLOR (A, D OR N CODE)

FOR 2017 2117 2219 5056 AND 7050 AL CHEMICAL FINISH SURFACE TREATMENT PER MIL-C-5541, CLASS 1A, CLEAR OR GOLD/YELLOW (CLEAR FILM SHALL BE USED ONLY WHEN AUTHORIZED) OR ANODIZE PER MIL-A-8625 TYPE II CLASS 1 (CLEAR OR DICHROMATE SEAL) OR CLASS 2

FOR TITANIUM COLUMBIUM NO FINISH REQUIRED

- INDICATES LENGTH IN 1/16 OF AN INCH
- INDICATES DIAMETER IN 1/32 OF AN INCH

- "A" INDICATES 1100-F ALUMINUM
- "AD" INDICATES 2117-T4 AL ALLOY
- "B" INDICATES 5056-H32 AL ALLOY
- "D" INDICATES 2017-T4 AL ALLOY
- "D2" INDICATES 2024-T4 AL ALLOY
- "K" INDICATES 2219-T81 AL ALLOY
- "E" INDICATES 7050-T73 AL ALLOY
- "T" INDICATES TITANIUM COLUMBIUM ALLOY 45Cb
- "J" INDICATES 2219-T62 AL ALLOY

INACTIVE FOR NEW DESIGN

BASIC MS NUMBER

- 6 OUTER DIAMETER OF INDENTED RING (7050 RIVETS) SHALL BE A MAXIMUM OF 75% OF RIVET SHANK DIAMETER. THE MAXIMUM DEPTH OF THE RING SHALL BE .010 INCH. INDENTED RING IS REQUIRED ON 7050 RIVETS MANUFACTURED AFTER 2 JULY 1990
- 7 MANUFACTURER'S IDENTIFICATION IS REQUIRED TO BE DEPRESSED ON RIVET HEADS WITH A SHANK DIAMETER .125 INCH AND LARGER MANUFACTURED AFTER 2 JULY 1990
- 8 ALUMINUM ALLOY 2017-T4 RIVETS WITH 33KSI MIN. UNDRIVEN SHEAR STRENGTH ARE ACCEPTABLE UNTIL 2 JULY 1990

NOTES

- 1 DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES DECIMALS ± .010
- 2 INTERCHANGEABILITY RELATION WITH AN470 RIVETS MS20470 RIVETS OF LIKE DASH NUMBERS ARE UNIVERSALLY, FUNCTIONALLY AND DIMENSIONABLY INTERCHANGEABLE.
- 3 IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE
- 4 REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STA TO THE EXTENT SPECIFIED HEREIN

| | | |
|---|---|---|
| PREPARING ACTIVITY NAVY-AS CUSTODIANS ARMY-AR NAVY- AIR FORCE-99 DIA- REVIEW BY, GL, IS, WE, MI, OS, 82 USER MC PROJECT NUMBER 5320-0806 | MILITARY SPECIFICATION SHEET TITLE RIVET SOLID UNIVERSAL HEAD, ALUMINUM ALLOY AND TITANIUM COLUMBIUM ALLOY | SPECIFICATION SHEET NUMBER MS20470 14 SEP 93 REV H SUPERSEDING MS20470 G 28 JAN 91 AMSC- N/A FSC 5320 |
| DISTRIBUTION STATEMENT A. Approved for public release distribution is unlimited. | | Page <u>2</u> of <u>5</u> |

DD Form 672, MAY 88

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

Form Approved
OMB No. 0704-0188

| ALUMINUM 1100-F | ALUMINUM 2117-T4 | ALUMINUM 5056-H32 | ALUMINUM 2017-T4 INACTIVE | ALUMINUM 2024-T4 INACTIVE | ALUMINUM 7050-T73 | ALUMINUM 2219-T81 INACTIVE | TITANIUM 45 Cb | ALUMINUM 2219-T62 | LENGTH |
|--------------------|---------------------|----------------------|---------------------------------|---------------------------------|----------------------|----------------------------------|-------------------|----------------------|--------|
| DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | |
| 1/16 NOM DIA | | | | | | | | | |
| A2-3 | AD2-3 | B2-3 | D2-3 | DD2-3 | E2-3 | K2-3 | T2-3 | J2-3 | 188 |
| A2-4 | AD2-4 | B2-4 | D2-4 | DD2-4 | E2-4 | K2-4 | T2-4 | J2-4 | 250 |
| A2-5 | AD2-5 | B2-5 | D2-5 | DD2-5 | E2-5 | K2-5 | T2-5 | J2-5 | 312 |
| A2-6 | AD2-6 | B2-6 | D2-6 | DD2-6 | E2-6 | K2-6 | T2-6 | J2-6 | 375 |
| A2-7 | AD2-7 | B2-7 | D2-7 | DD2-7 | E2-7 | K2-7 | T2-7 | J2-7 | 438 |
| A2-8 | AD2-8 | B2-8 | D2-8 | DD2-8 | E2-8 | K2-8 | T2-8 | J2-8 | 500 |
| A2-9 | AD2-9 | B2-9 | D2-9 | DD2-9 | E2-9 | K2-9 | T2-9 | J2-9 | 562 |
| A2-10 | AD2-10 | B2-10 | D2-10 | DD2-10 | E2-10 | K2-10 | T2-10 | J2-10 | 625 |
| A2-12 | AD2-12 | B2-12 | D2-12 | DD2-12 | E2-12 | K2-12 | T2-12 | J2-12 | 750 |
| A2-14 | AD2-14 | B2-14 | D2-14 | DD2-14 | E2-14 | K2-14 | T2-14 | J2-14 | 875 |
| A2-16 | AD2-16 | B2-16 | D2-16 | DD2-16 | E2-16 | K2-16 | T2-16 | J2-16 | 1 000 |
| A2-18 | AD2-18 | B2-18 | D2-18 | DD2-18 | E2-18 | K2-18 | T2-18 | J2-18 | 1 125 |
| A2-20 | AD2-20 | B2-20 | D2-20 | DD2-20 | E2-20 | K2-20 | T2-20 | J2-20 | 1 250 |

| ALUMINUM 1100-F | ALUMINUM 2117-T4 | ALUMINUM 5056-H32 | ALUMINUM 2017-T4 INACTIVE | ALUMINUM 2024-T4 INACTIVE | ALUMINUM 7050-T73 | ALUMINUM 2219-T81 INACTIVE | TITANIUM 45 Cb | ALUMINUM 2219-T62 | LENGTH |
|--------------------|---------------------|----------------------|---------------------------------|---------------------------------|----------------------|----------------------------------|-------------------|----------------------|--------|
| DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | |
| 3/32 NOM DIA | | | | | | | | | |
| A3-3 | AD3-3 | B3-3 | D3-3 | DD3-3 | E3-3 | K3-3 | T3-3 | J3-3 | 188 |
| A3-4 | AD3-4 | B3-4 | D3-4 | DD3-4 | E3-4 | K3-4 | T3-4 | J3-4 | 250 |
| A3-5 | AD3-5 | B3-5 | D3-5 | DD3-5 | E3-5 | K3-5 | T3-5 | J3-5 | 312 |
| A3-6 | AD3-6 | B3-6 | D3-6 | DD3-6 | E3-6 | K3-6 | T3-6 | J3-6 | 375 |
| A3-7 | AD3-7 | B3-7 | D3-7 | DD3-7 | E3-7 | K3-7 | T3-7 | J3-7 | 438 |
| A3-8 | AD3-8 | B3-8 | D3-8 | DD3-8 | E3-8 | K3-8 | T3-8 | J3-8 | 500 |
| A3-9 | AD3-9 | B3-9 | D3-9 | DD3-9 | E3-9 | K3-9 | T3-9 | J3-9 | 562 |
| A3-10 | AD3-10 | B3-10 | D3-10 | DD3-10 | E3-10 | K3-10 | T3-10 | J3-10 | 625 |
| A3-12 | AD3-12 | B3-12 | D3-12 | DD3-12 | E3-12 | K3-12 | T3-12 | J3-12 | 750 |
| A3-14 | AD3-14 | B3-14 | D3-14 | DD3-14 | E3-14 | K3-14 | T3-14 | J3-14 | 875 |
| A3-16 | AD3-16 | B3-16 | D3-16 | DD3-16 | E3-16 | K3-16 | T3-16 | J3-16 | 1 000 |
| A3-18 | AD3-18 | B3-18 | D3-18 | DD3-18 | E3-18 | K3-18 | T3-18 | J3-18 | 1 125 |
| A3-20 | AD3-20 | B3-20 | D3-20 | DD3-20 | E3-20 | K3-20 | T3-20 | J3-20 | 1 250 |
| A3-22 | AD3-22 | B3-22 | D3-22 | DD3-22 | E3-22 | K3-22 | T3-22 | J3-22 | 1 375 |

| ALUMINUM 1100-F | ALUMINUM 2117-T4 | ALUMINUM 5056-H32 | ALUMINUM 2017-T4 INACTIVE | ALUMINUM 2024-T4 INACTIVE | ALUMINUM 7050-T73 | ALUMINUM 2219-T81 INACTIVE | TITANIUM 45 Cb | ALUMINUM 2219-T62 | LENGTH |
|--------------------|---------------------|----------------------|---------------------------------|---------------------------------|----------------------|----------------------------------|-------------------|----------------------|--------|
| DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | |
| 1/8 NOM DIA | | | | | | | | | |
| A4-3 | AD4-3 | B4-3 | D4-3 | DD4-3 | E4-3 | K4-3 | T4-3 | J4-3 | 188 |
| | AD4-3-5 | B4-3-5 | | | | K4-3-5 | T4-3-5 | J4-3-5 | 218 |
| A4-4 | AD4-4 | B4-4 | D4-4 | DD4-4 | E4-4 | K4-4 | T4-4 | J4-4 | 250 |
| | AD4-4-5 | B4-4-5 | | | | K4-4-5 | T4-4-5 | J4-4-5 | 281 |
| A4-5 | AD4-5 | B4-5 | D4-5 | DD4-5 | E4-5 | K4-5 | T4-5 | J4-5 | 312 |
| A4-6 | AD4-6 | B4-6 | D4-6 | DD4-6 | E4-6 | K4-6 | T4-6 | J4-6 | 375 |
| A4-7 | AD4-7 | B4-7 | D4-7 | DD4-7 | E4-7 | K4-7 | T4-7 | J4-7 | 438 |
| A4-8 | AD4-8 | B4-8 | D4-8 | DD4-8 | E4-8 | K4-8 | T4-8 | J4-8 | 500 |
| A4-9 | AD4-9 | B4-9 | D4-9 | DD4-9 | E4-9 | K4-9 | T4-9 | J4-9 | 562 |
| A4-10 | AD4-10 | B4-10 | D4-10 | DD4-10 | E4-10 | K4-10 | T4-10 | J4-10 | 625 |
| | AD4-11 | B4-11 | | | | K4-11 | T4-11 | J4-11 | 687 |
| A4-12 | AD4-12 | B4-12 | D4-12 | DD4-12 | E4-12 | K4-12 | T4-12 | J4-12 | 750 |
| A4-14 | AD4-14 | B4-14 | D4-14 | DD4-14 | E4-14 | K4-14 | T4-14 | J4-14 | 875 |
| A4-16 | AD4-16 | B4-16 | D4-16 | DD4-16 | E4-16 | K4-16 | T4-16 | J4-16 | 1 000 |
| A4-18 | AD4-18 | B4-18 | D4-18 | DD4-18 | E4-18 | K4-18 | T4-18 | J4-18 | 1 125 |
| A4-20 | AD4-20 | B4-20 | D4-20 | DD4-20 | E4-20 | K4-20 | T4-20 | J4-20 | 1 250 |
| A4-22 | AD4-22 | B4-22 | D4-22 | DD4-22 | E4-22 | K4-22 | T4-22 | J4-22 | 1 375 |
| A4-24 | AD4-24 | B4-24 | D4-24 | DD4-24 | E4-24 | K4-24 | T4-24 | J4-24 | 1 500 |

| | | |
|---|---|--|
| PREPARING ACTIVITY NAVY-AS CUSTODIANS ARMY-AR NAVY- AIR FORCE-99 DLA- REVIEW BY, GL, IS, ME, MI, OS, 82 USER MC PROJECT NUMBER 5320-0806 | MILITARY SPECIFICATION SHEET TITLE RIVET, SOLID UNIVERSAL HEAD ALUMINUM ALLOY AND TITANIUM COLUMBIUM ALLOY | SPECIFICATION SHEET NUMBER MS20470 14 SEP 93 REV M SUPERSEDING MS20470 C 28 JAN 91 AMSC- N/A FSC 5320 |
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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

Form Approved
OMB No 0704-0188

| ALUMINUM 1100-F | ALUMINUM 2117-T4 | ALUMINUM 5056-H32 | ALUMINUM 2017-T4 INACTIVE | ALUMINUM 2024-T4 INACTIVE | ALUMINUM 7050-T73 | ALUMINUM 2219-T81 INACTIVE | ALUMINUM 2219-T62 | TITANIUM 45 Cb | LENGTH |
|--------------------|---------------------|----------------------|---------------------------------|---------------------------------|----------------------|----------------------------------|----------------------|-------------------|--------|
| DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | |
| 5/32 NOM DIA | | | | | | | | | |
| A5-4 | A05-4 | B5-4 | D5-4 | DD5-4 | E5-4 | K5-4 | J5-4 | T5-4 | .250 |
| A5-5 | A05-5 | B5-5 | D5-5 | DD5-5 | E5-5 | K5-5 | J5-5 | T5-5 | .312 |
| A5-6 | A05-6 | B5-6 | D5-6 | DD5-6 | E5-6 | K5-6 | J5-6 | T5-6 | .375 |
| A5-7 | A05-7 | B5-7 | D5-7 | DD5-7 | E5-7 | K5-7 | J5-7 | T5-7 | .438 |
| A5-8 | A05-8 | B5-8 | D5-8 | DD5-8 | E5-8 | K5-8 | J5-8 | T5-8 | .500 |
| A5-9 | A05-9 | B5-9 | D5-9 | DD5-9 | E5-9 | K5-9 | J5-9 | T5-9 | .562 |
| A5-10 | A05-10 | B5-10 | D5-10 | DD5-10 | E5-10 | K5-10 | J5-10 | T5-10 | .625 |
| | A05-11 | | | | | K5-11 | J5-11 | | .687 |
| A5-12 | A05-12 | B5-12 | D5-12 | DD5-12 | E5-12 | K5-12 | J5-12 | T5-12 | .750 |
| A5-14 | A05-14 | B5-14 | D5-14 | DD5-14 | E5-14 | K5-14 | J5-14 | T5-14 | .875 |
| A5-16 | A05-16 | B5-16 | D5-16 | DD5-16 | E5-16 | K5-16 | J5-16 | T5-16 | 1.000 |
| | A05-17 | | | | | K5-17 | | | 1.062 |
| A5-18 | A05-18 | B5-18 | D5-18 | DD5-18 | E5-18 | K5-18 | J5-18 | T5-18 | 1.125 |
| | A05-19 | | | | | K5-19 | J5-19 | | 1.187 |
| A5-20 | A05-20 | B5-20 | D5-20 | DD5-20 | E5-20 | K5-20 | J5-20 | T5-20 | 1.250 |
| A5-22 | A05-22 | B5-22 | D5-22 | DD5-22 | E5-22 | K5-22 | J5-22 | T5-22 | 1.375 |
| A5-24 | A05-24 | B5-24 | D5-24 | DD5-24 | E5-24 | K5-24 | J5-24 | T5-24 | 1.500 |
| A5-28 | A05-28 | B5-28 | D5-28 | DD5-28 | E5-28 | K5-28 | J5-28 | T5-28 | 1.750 |

| ALUMINUM 1100-F | ALUMINUM 2117-T4 | ALUMINUM 5056-H32 | ALUMINUM 2017-T4 INACTIVE | ALUMINUM 2024-T4 INACTIVE | ALUMINUM 7050-T73 | ALUMINUM 2219-T81 INACTIVE | ALUMINUM 2219-T62 | TITANIUM 45 Cb | LENGTH |
|--------------------|---------------------|----------------------|---------------------------------|---------------------------------|----------------------|----------------------------------|----------------------|-------------------|--------|
| DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | |
| 3/16 NOM DIA | | | | | | | | | |
| A6-4 | A06-4 | B6-4 | D6-4 | DD6-4 | E6-4 | K6-4 | J6-4 | T6-4 | .187 |
| A6-5 | A06-5 | B6-5 | D6-5 | DD6-5 | E6-5 | K6-5 | J6-5 | T6-5 | .250 |
| A6-6 | A06-6 | B6-6 | D6-6 | DD6-6 | E6-6 | K6-6 | J6-6 | T6-6 | .312 |
| A6-7 | A06-7 | B6-7 | D6-7 | DD6-7 | E6-7 | K6-7 | J6-7 | T6-7 | .375 |
| A6-8 | A06-8 | B6-8 | D6-8 | DD6-8 | E6-8 | K6-8 | J6-8 | T6-8 | .438 |
| A6-9 | A06-9 | B6-9 | D6-9 | DD6-9 | E6-9 | K6-9 | J6-9 | T6-9 | .500 |
| A6-10 | A06-10 | B6-10 | D6-10 | DD6-10 | E6-10 | K6-10 | J6-10 | T6-10 | .562 |
| | A06-11 | | | | E6-11 | | | | .625 |
| A6-12 | A06-12 | B6-12 | D6-12 | DD6-12 | E6-12 | K6-12 | J6-12 | T6-12 | .687 |
| | A06-13 | | | | | | | | .750 |
| A6-14 | A06-14 | B6-14 | D6-14 | DD6-14 | E6-14 | K6-14 | J6-14 | T6-14 | .812 |
| A6-16 | A06-16 | B6-16 | D6-16 | DD6-16 | E6-16 | K6-16 | J6-16 | T6-16 | .875 |
| A6-18 | A06-18 | B6-18 | D6-18 | DD6-18 | E6-18 | K6-18 | J6-18 | T6-18 | 1.000 |
| A6-20 | A06-20 | B6-20 | D6-20 | DD6-20 | E6-20 | K6-20 | J6-20 | T6-20 | 1.125 |
| A6-22 | A06-22 | B6-22 | D6-22 | DD6-22 | E6-22 | K6-22 | J6-22 | T6-22 | 1.250 |
| A6-24 | A06-24 | B6-24 | D6-24 | DD6-24 | E6-24 | K6-24 | J6-24 | T6-24 | 1.375 |
| A6-28 | A06-28 | B6-28 | D6-28 | DD6-28 | E6-28 | K6-28 | J6-28 | T6-28 | 1.500 |
| A6-32 | A06-32 | B6-32 | D6-32 | DD6-32 | E6-32 | K6-32 | J6-32 | T6-32 | 1.750 |
| | A06-36 | | | | | | | | 2.000 |
| A6-40 | A06-40 | B6-40 | D6-40 | DD6-40 | E6-40 | K6-40 | J6-40 | T6-40 | 2.250 |
| A6-48 | A06-48 | B6-48 | D6-48 | DD6-48 | E6-48 | K6-48 | J6-48 | T6-48 | 2.500 |

| ALUMINUM 1100-F | ALUMINUM 2117-T4 | ALUMINUM 5056-H32 | ALUMINUM 2017-T4 INACTIVE | ALUMINUM 2024-T4 INACTIVE | ALUMINUM 7050-T73 | ALUMINUM 2219-T81 INACTIVE | ALUMINUM 2219-T62 | TITANIUM 45 Cb | LENGTH |
|--------------------|---------------------|----------------------|---------------------------------|---------------------------------|----------------------|----------------------------------|----------------------|-------------------|--------|
| DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | |
| 7/32 NOM DIA | | | | | | | | | |
| A7-6 | A07-6 | B7-6 | D7-6 | DD7-6 | E7-6 | K7-6 | J7-6 | T7-6 | .375 |
| A7-7 | A07-7 | B7-7 | D7-7 | DD7-7 | E7-7 | K7-7 | J7-7 | T7-7 | .438 |
| A7-8 | A07-8 | B7-8 | D7-8 | DD7-8 | E7-8 | K7-8 | J7-8 | T7-8 | .500 |
| A7-9 | A07-9 | B7-9 | D7-9 | DD7-9 | E7-9 | K7-9 | J7-9 | T7-9 | .562 |
| A7-10 | A07-10 | B7-10 | D7-10 | DD7-10 | E7-10 | K7-10 | J7-10 | T7-10 | .625 |
| A7-12 | A07-12 | B7-12 | D7-12 | DD7-12 | E7-12 | K7-12 | J7-12 | T7-12 | .687 |
| A7-14 | A07-14 | B7-14 | D7-14 | DD7-14 | E7-14 | K7-14 | J7-14 | T7-14 | .750 |
| A7-16 | A07-16 | B7-16 | D7-16 | DD7-16 | E7-16 | K7-16 | J7-16 | T7-16 | .812 |
| A7-18 | A07-18 | B7-18 | D7-18 | DD7-18 | E7-18 | K7-18 | J7-18 | T7-18 | .875 |
| A7-20 | A07-20 | B7-20 | D7-20 | DD7-20 | E7-20 | K7-20 | J7-20 | T7-20 | 1.000 |
| A7-22 | A07-22 | B7-22 | D7-22 | DD7-22 | E7-22 | K7-22 | J7-22 | T7-22 | 1.125 |
| A7-24 | A07-24 | B7-24 | D7-24 | DD7-24 | E7-24 | K7-24 | J7-24 | T7-24 | 1.250 |
| A7-28 | A07-28 | B7-28 | D7-28 | DD7-28 | E7-28 | K7-28 | J7-28 | T7-28 | 1.375 |
| A7-32 | A07-32 | B7-32 | D7-32 | DD7-32 | E7-32 | K7-32 | J7-32 | T7-32 | 1.500 |
| A7-40 | A07-40 | B7-40 | D7-40 | DD7-40 | E7-40 | K7-40 | J7-40 | T7-40 | 1.750 |
| A7-48 | A07-48 | B7-48 | D7-48 | DD7-48 | E7-48 | K7-48 | J7-48 | T7-48 | 2.000 |
| A7-56 | A07-56 | B7-56 | D7-56 | DD7-56 | E7-56 | K7-56 | J7-56 | T7-56 | 2.250 |

| | | |
|---|---|--|
| PREPARING ACTIVITY NAVY-AS CUSTODIANS ARMY-AR NAVY- AIR FORCE-99 DLA- REVIEW AV, GL, IS, ME, MI, OS, 82 USER MC PROJECT NUMBER 5320-0806 | MILITARY SPECIFICATION SHEET TITLE RIVET, SOLID UNIVERSAL HEAD, ALUMINUM ALLOY AND TITANIUM COLUMBIUM ALLOY | SPECIFICATION SHEET NUMBER MS20470 14 SEP 83 REV H SUPERSEDING MS20470 G 28 JAN 81 AMSC- N/A FSC 5320 |
| DISTRIBUTION STATEMENT A. Approved for public release distribution is unlimited | | Page 4 of 5 |

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

Form Approved
OMB No 0704-0188

| ALUMINUM 1100-F | ALUMINUM 2117-T4 | ALUMINUM 5056-H32 | ALUMINUM 2017-T4 INACTIVE | ALUMINUM 2024-T4 INACTIVE | ALUMINUM 7050-T73 | ALUMINUM 2219-TB1 INACTIVE | ALUMINUM 2219-T62 | TITANIUM 45 Cb | LENGTH |
|--------------------|---------------------|----------------------|---------------------------------|---------------------------------|----------------------|----------------------------------|----------------------|-------------------|--------|
| DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | |
| 1/4 NOM DIA. | | | | | | | | | |
| A8-6 | AD8-6 | B8-6 | D8-6 | DD8-6 | E8-6 | K8-6 | J8-6 | T8-6 | .375 |
| A8-7 | AD8-7 | B8-7 | D8-7 | DD8-7 | E8-7 | K8-7 | J8-7 | T8-7 | .438 |
| A8-8 | AD8-8 | B8-8 | D8-8 | DD8-8 | E8-8 | K8-8 | J8-8 | T8-8 | .500 |
| A8-9 | AD8-9 | B8-9 | D8-9 | DD8-9 | E8-9 | K8-9 | J8-9 | T8-9 | .562 |
| A8-10 | AD8-10 | B8-10 | D8-10 | DD8-10 | E8-10 | K8-10 | J8-10 | T8-10 | .625 |
| A8-12 | AD8-12 | B8-12 | D8-12 | DD8-12 | E8-12 | K8-12 | J8-12 | T8-12 | .750 |
| A8-14 | AD8-14 | B8-14 | D8-14 | DD8-14 | E8-14 | K8-14 | J8-14 | T8-14 | .875 |
| A8-16 | AD8-16 | B8-16 | D8-16 | DD8-16 | E8-16 | K8-16 | J8-16 | T8-16 | 1.000 |
| A8-18 | AD8-18 | B8-18 | D8-18 | DD8-18 | E8-18 | K8-18 | J8-18 | T8-18 | 1.125 |
| A8-20 | AD8-20 | B8-20 | D8-20 | DD8-20 | E8-20 | K8-20 | J8-20 | T8-20 | 1.250 |
| A8-22 | AD8-22 | B8-22 | D8-22 | DD8-22 | E8-22 | K8-22 | J8-22 | T8-22 | 1.375 |
| A8-24 | AD8-24 | B8-24 | D8-24 | DD8-24 | E8-24 | K8-24 | J8-24 | T8-24 | 1.500 |
| A8-28 | AD8-28 | B8-28 | D8-28 | DD8-28 | E8-28 | K8-28 | J8-28 | T8-28 | 1.750 |
| A8-32 | AD8-32 | B8-32 | D8-32 | DD8-32 | E8-32 | K8-32 | J8-32 | T8-32 | 2.000 |
| A8-40 | AD8-40 | B8-40 | D8-40 | DD8-40 | E8-40 | K8-40 | J8-40 | T8-40 | 2.500 |
| A8-48 | AD8-48 | B8-48 | D8-48 | DD8-48 | E8-48 | K8-48 | J8-48 | T8-48 | 3.000 |
| A8-56 | AD8-56 | B8-56 | D8-56 | DD8-56 | E8-56 | K8-56 | J8-56 | T8-56 | 3.500 |

| ALUMINUM 1100-F | ALUMINUM 2117-T4 | ALUMINUM 5056-H32 | ALUMINUM 2017-T4 INACTIVE | ALUMINUM 2024-T4 INACTIVE | ALUMINUM 7050-T73 | ALUMINUM 2219-TB1 INACTIVE | ALUMINUM 2219-T62 | TITANIUM 45 Cb | LENGTH |
|--------------------|---------------------|----------------------|---------------------------------|---------------------------------|----------------------|----------------------------------|----------------------|-------------------|--------|
| DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | |
| 5/16 NOM DIA. | | | | | | | | | |
| A10-8 | AD10-8 | B10-8 | D10-8 | DD10-8 | E10-8 | K10-8 | J10-8 | T10-8 | .500 |
| A10-9 | AD10-9 | B10-9 | D10-9 | DD10-9 | E10-9 | K10-9 | J10-9 | T10-9 | .562 |
| A10-10 | AD10-10 | B10-10 | D10-10 | DD10-10 | E10-10 | K10-10 | J10-10 | T10-10 | .625 |
| A10-12 | AD10-12 | B10-12 | D10-12 | DD10-12 | E10-12 | K10-12 | J10-12 | T10-12 | .750 |
| A10-14 | AD10-14 | B10-14 | D10-14 | DD10-14 | E10-14 | K10-14 | J10-14 | T10-14 | .875 |
| A10-16 | AD10-16 | B10-16 | D10-16 | DD10-16 | E10-16 | K10-16 | J10-16 | T10-16 | 1.000 |
| A10-18 | AD10-18 | B10-18 | D10-18 | DD10-18 | E10-18 | K10-18 | J10-18 | T10-18 | 1.125 |
| A10-20 | AD10-20 | B10-20 | D10-20 | DD10-20 | E10-20 | K10-20 | J10-20 | T10-20 | 1.250 |
| A10-22 | AD10-22 | B10-22 | D10-22 | DD10-22 | E10-22 | K10-22 | J10-22 | T10-22 | 1.375 |
| A10-24 | AD10-24 | B10-24 | D10-24 | DD10-24 | E10-24 | K10-24 | J10-24 | T10-24 | 1.500 |
| A10-28 | AD10-28 | B10-28 | D10-28 | DD10-28 | E10-28 | K10-28 | J10-28 | T10-28 | 1.750 |
| A10-32 | AD10-32 | B10-32 | D10-32 | DD10-32 | E10-32 | K10-32 | J10-32 | T10-32 | 2.000 |
| A10-40 | AD10-40 | B10-40 | D10-40 | DD10-40 | E10-40 | K10-40 | J10-40 | T10-40 | 2.500 |
| A10-48 | AD10-48 | B10-48 | D10-48 | DD10-48 | E10-48 | K10-48 | J10-48 | T10-48 | 3.000 |
| A10-56 | AD10-56 | B10-56 | D10-56 | DD10-56 | E10-56 | K10-56 | J10-56 | T10-56 | 3.500 |
| A10-64 | AD10-64 | B10-64 | D10-64 | DD10-64 | E10-64 | K10-64 | J10-64 | T10-64 | 4.000 |

| ALUMINUM 1100-F | ALUMINUM 2117-T4 | ALUMINUM 5056-H32 | ALUMINUM 2017-T4 INACTIVE | ALUMINUM 2024-T4 INACTIVE | ALUMINUM 7050-T73 | ALUMINUM 2219-TB1 INACTIVE | ALUMINUM 2219-T62 | TITANIUM 45 Cb | LENGTH |
|--------------------|---------------------|----------------------|---------------------------------|---------------------------------|----------------------|----------------------------------|----------------------|-------------------|--------|
| DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | DASH NO | |
| 3/16 NOM DIA. | | | | | | | | | |
| A12-10 | AD12-10 | B12-10 | D12-10 | DD12-10 | E12-10 | K12-10 | J12-10 | T12-10 | .625 |
| A12-12 | AD12-12 | B12-12 | D12-12 | DD12-12 | E12-12 | K12-12 | J12-12 | T12-12 | .750 |
| A12-14 | AD12-14 | B12-14 | D12-14 | DD12-14 | E12-14 | K12-14 | J12-14 | T12-14 | .875 |
| A12-16 | AD12-16 | B12-16 | D12-16 | DD12-16 | E12-16 | K12-16 | J12-16 | T12-16 | 1.000 |
| A12-18 | AD12-18 | B12-18 | D12-18 | DD12-18 | E12-18 | K12-18 | J12-18 | T12-18 | 1.125 |
| A12-20 | AD12-20 | B12-20 | D12-20 | DD12-20 | E12-20 | K12-20 | J12-20 | T12-20 | 1.250 |
| A12-22 | AD12-22 | B12-22 | D12-22 | DD12-22 | E12-22 | K12-22 | J12-22 | T12-22 | 1.375 |
| A12-24 | AD12-24 | B12-24 | D12-24 | DD12-24 | E12-24 | K12-24 | J12-24 | T12-24 | 1.500 |
| A12-28 | AD12-28 | B12-28 | D12-28 | DD12-28 | E12-28 | K12-28 | J12-28 | T12-28 | 1.750 |
| A12-32 | AD12-32 | B12-32 | D12-32 | DD12-32 | E12-32 | K12-32 | J12-32 | T12-32 | 2.000 |
| A12-40 | AD12-40 | B12-40 | D12-40 | DD12-40 | E12-40 | K12-40 | J12-40 | T12-40 | 2.500 |
| A12-48 | AD12-48 | B12-48 | D12-48 | DD12-48 | E12-48 | K12-48 | J12-48 | T12-48 | 3.000 |
| A12-56 | AD12-56 | B12-56 | D12-56 | DD12-56 | E12-56 | K12-56 | J12-56 | T12-56 | 3.500 |
| A12-64 | AD12-64 | B12-64 | D12-64 | DD12-64 | E12-64 | K12-64 | J12-64 | T12-64 | 4.000 |

PREPARING ACTMITY NAVY-AS
CUSTODIANS ARMY-AR NAVY-
AIR FORCE-99 DIA-
REVIEW AV, GL, IS, ME, MI, OS, 82
USER MC
PROJECT NUMBER 3320-0808

MILITARY SPECIFICATION SHEET
TITLE
RIVET, SOLID UNIVERSAL HEAD,
ALUMINUM ALLOY AND TITANIUM
COLUMBIUM ALLOY

SPECIFICATION SHEET NUMBER
MS20470 14 SEP 93
REV H
SUPERSEDING
MS20470 G 28 JAN 91
AMSC- N/A FSC 5320

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