

INCH-POUND

MS51507B

14 December 2015

SUPERSEDING

MS51507A

17 January 1979

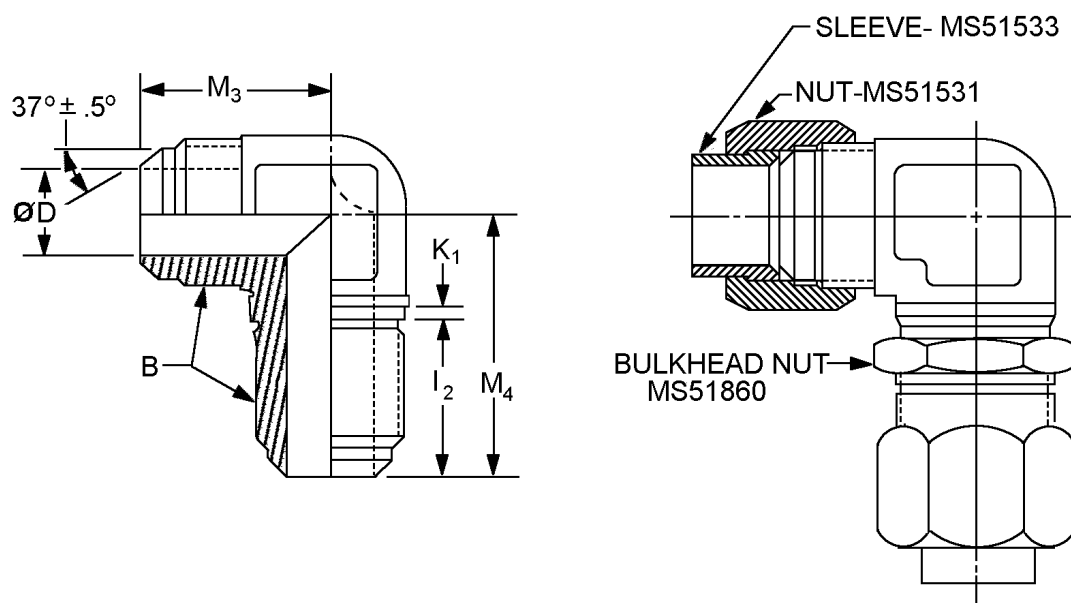
DETAIL SPECIFICATION SHEET

ELBOW, TUBE, 90 DEGREE,
37 DEGREE BULKHEAD, FLARED

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

Inactive for new design after 17 August 1999. For new design, use SAE-J514.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-18866.

FIGURE 1. Elbow tube, 90°.

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Suffix designator		Tube OD nom.	B Straight thread	D diameter	
Assembly (see note 4)	Body			Basic inches (mm)	Tolerance inches (mm)
A2	B2	.1250 (3.175)	.3125-24 UNF-2A	.062 (1.57)	±.003 (0.08)
A3	B3	.1875 (4.763)	.3750-24 UNF-2A	.125 (3.18)	
A4	B4	.2500 (6.350)	.4375-20 UNF-2A	.172 (4.37)	
A5	B5	.3125 (7.936)	.5000-20 UNF-2A	.234 (5.94)	
A6	B6	.3750 (9.525)	.5625-18 UNF-2A	.297 (7.54)	
A8	B8	.5000 (12.700)	.7500-16 UNF-2A	.391 (9.93)	
A10	B10	.6250 (15.875)	.8750-14 UNF-2A	.484 (12.29)	
A12	B12	.7500 (19.050)	1.0625-12 UN-2A	.609 (15.47)	
A14	B14	.8750 (22.225)	1.1875-12 UN-2A	.718 (18.24)	
A16	B16	1.0000 (25.400)	1.3125-12 UN-2A	.844 (21.44)	+0.007 -.005 (+0.18 -.013)
A20	B20	1.2500 (31.750)	1.6250-12 UN-2A	1.078 (27.38)	+0.008 -.005 (+0.20 -.013)
A24	B24	1.5000 (38.100)	1.8750-12 UN-2A	1.312 (33.32)	
A32	B32	2.0000 (50.800)	2.500-12 UN-2A	1.781 (45.24)	+0.010 -.005 (+0.25 -.013)

Suffix designator		I ₁ .020 (0.51) inches (mm)	K ₁ ±.020 (0.51) inches (mm)	M ₃ ±.030 (0.76) inches (mm)	M ₄ ±.030 (0.76) inches (mm)
Assembly	Body				
A2	B2	.920 (23.37)	.094 (2.39)	.840 (21.34)	1.420 (36.07)
A3	B3	.920 (23.37)	.094 (2.39)	.910 (23.11)	1.450 (36.83)
A4	B4	1.020 (25.91)	.094 (2.39)	.970 (24.64)	1.590 (40.39)
A5	B5	1.020 (25.91)	.094 (2.39)	1.030 (26.16)	1.620 (41.15)
A6	B6	1.090 (27.69)	.094 (2.39)	1.090 (27.69)	1.810 (45.97)
A8	B8	1.250 (31.75)	.125 (3.18)	1.360 (34.54)	2.110 (53.59)
A10	B10	1.390 (35.31)	.125 (3.18)	1.560 (39.62)	2.390 (60.71)
A12	B12	1.560 (39.62)	.125 (3.18)	1.780 (45.21)	2.670 (67.82)
A14	B14	1.560 (39.62)	.125 (3.18)	1.860 (47.24)	2.730 (69.34)
A16	B16	1.560 (39.62)	.125 (3.18)	1.940 (49.28)	2.800 (71.12)
A20	B20	1.610 (40.89)	.125 (3.18)	2.170 (55.12)	3.120 (79.25)
A24	B24	1.620 (41.15)	.125 (3.18)	2.340 (59.44)	3.420 (86.87)
A32	B32	1.930 (49.02)	.125 (3.18)	2.890 (73.41)	4.110 (104.39)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Break all sharp edges and remove all burrs and slivers.
4. Assemblies are only furnished to this specification (body, nut, and sleeve). Bodies are not to be stocked stored or issued.
5. Dimensions and tolerances not shown shall be in accordance with SAE-J514 for 37° flared fittings.
6. The drawing is for identification purposes only and is not intended to restrict designs and shapes not dimensioned.

FIGURE 1. Elbow tube 90° - Continued.

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REQUIREMENTS:

Fittings shall be in accordance with figure 1 and tables I and II.

Components of the assemblies shall be of the same material and finish.

Materials shall be in accordance with MIL-DTL-18866 and table I.

TABLE I. Materials.

Material	Form	Specification	Alloy
Carbon steel	Bar	SAE-J403	1110, 1120, 1140, 1213, 1215, or 12L14
	Forgings		
Chrome-molybdenum steel	Bars	SAE-AMS6370	4130
	Forgings	SAE-AMS6382	
		SAE-AMS6370	
Corrosion resistant steel	Bars and forgings	ASTM A276/A276M	304, 304L, 316, or 321
		ASTM A564/A564M	XM-12 (15-5 PH) UNS S15500 or 603 (17-4 PH) UNS S17400
		SAE-AMS5639	UNS S30400
		SAE-AMS5645	UNS S32100
		SAE-AMS5647	UNS S30403
		SAE-AMS5743	UNS S35500
	Bar	ASTM A582/A582M	UNS S30300
Nickel-copper alloy	Bar	ASTM B164 QQ-N-281	UNS N04400
High-chromium nickel alloy	Bar	ASTM B166	UNS N06690
	Forgings	ASTM B564	
Titanium <u>1/</u>	Bars	SAE-AMS4928	6Al-4V annealed
	Forgings		

1/ Titanium shall not be used in oxygen or potable water systems.

Finish. Finishes shall be as specified in table II. All platings shall be capable of meeting a minimum of 96 hours salt spray test in accordance with ASTM B117. The fittings shall show no evidence of corrosion after 96 hours of salt spray. Fluid passages, other openings and internal threads shall not be subject to the plating thickness requirement and may have bare areas provided they are protected with a light film of oil.

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TABLE II. Material and finish identification codes.

PIN code material/plating finish	Material	Plating Finish
Blank	Steel	Cadmium plating in accordance with SAE-AMS-C-81562, type II, class 3 or SAE-AMS-QQ-P-416, type II, class 2. <u>1/</u>
CN		Cadmium plating in accordance with SAE-AMS-C-81562, type II, class 3 or SAE-AMS-QQ-P-416, type II, class 2 with NAVAIR trivalent chromium pretreatment (TCP) in accordance with MIL-DTL-81706, type II, class 1A. <u>1/</u>
E		NAVAIR TCP in accordance with MIL-DTL-81706, type II, class 1A.
F	Steel	Zinc plate (finish J, P, or R) with NAVAIR TCP in accordance with MIL-DTL-81706, type II, class 1A.
H	Steel	Zinc/Aluminum in accordance with ASTM F1136F1136M, grade 3, NC.
J	Steel	Zinc-nickel in accordance with SAE-AMS2417, type 2, grade B.
M	Nickel-copper alloy UNS N04400	No additional finish.
N	High-chromium nickel alloy UNS N06690	No additional finish.
P	Steel	Zinc phosphate finish in accordance MIL-DTL-16232 type Z, class1.
R	Steel	Zinc plating in accordance with ASTM B633; type VI, Fe/Zn 5. <u>2/</u>
S	Corrosion resistant steel	No additional finish. Passivation in accordance with SAE-AMS2700, method 1, type 6 or 7.
T	Titanium	Anodize in accordance with SAE-AMS2488 type 2.
TF	Titanium	Fluoride phosphate in accordance with SAE-AMS2486. <u>3/</u>
Z	Steel	Zinc plating in accordance with ASTM B633; type II or III, Fe/Zn 5, or ASTM B695, type II, class 5. <u>4/</u>
ZN	Steel	Zinc plating in accordance with ASTM B633; type II or III, Fe/Zn 5, or ASTM B695, type II, class 5 with NAVAIR TCP in accordance with MIL-DTL-81706, type II, class 1A. <u>4/</u>

1/ Embrittlement test need not be run. Cadmium shall not be used in oxygen or potable water systems.

2/ Hexavalent chromium free.

3/ A pretreatment, a modification of the fluoride treatment, or a post treatment shall be applied so the final color of the fittings shall be similar to FED-STD-595 colors 36076 through 36293.

4/ Not for use in aircraft.

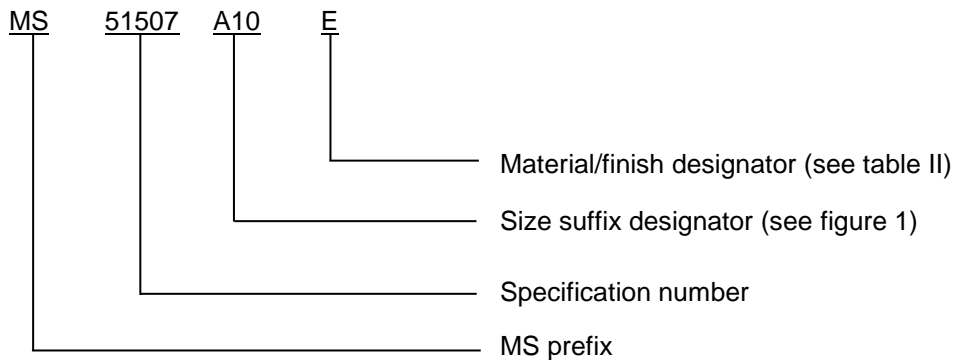
Trivalent wrenchability. When the finish has been damaged due to poor wrenchability, the surface of the connector shall be touched up using the brush plating process below. The term "trivalent wrenchability" is used to evaluate the ability of the finish to withstand abrasion from an excessive amount of wrenching.

- a. Brush plating of hard chromium by electrodeposition shall be in accordance with SAE-AMS-2451/5.
- b. Brush plating of medium-hardness, low stress nickel by electrodeposition shall be in accordance with SAE-AMS-2451/9.
- c. Brush plating of NAVAIR TCP shall be in accordance with MIL-DTL-81706, type II, class 1A, material form 1 through 6, application method B. Example of a PIN: M817062A6B.

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Maximum operating pressure. Maximum operating pressure shall be in accordance with SAE-J514.

PIN: The PIN consists of the letters "MS", the specification number, a letter and number for elbow size, and a letter for material finish designator.



PIN example: MS51507A10E indicates an elbow tube 90°, .6250 inch (15.875 mm), steel with NAVAIR TCP.

Cadmium is not recommended. To the users of this document, it is recommended that the use of carbon steel material with cadmium plating be used only when other materials and finishes specified in this document cannot meet performance requirements.

Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

Referenced documents shall be of the issue in effect on date of invitations for bid.

Table III provides a detailed cross-reference of inactive MS5107 PIN's and for new design SAE-J514 PIN's.

MS51507 parts have straight threads in accordance with ASME B1.1 the SAE parts have straight threads in accordance with SAE-J425.

Users are cautioned to evaluate replacement parts for their particular application.

CAUTION: The superseding information is valid as of the date of this specification and may be superseded by subsequent revisions of the superseding document.

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TABLE III. MS51507 to SAE-J514 cross reference.

Inactive for new design MS51507- PIN		Tube OD	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51507A2	MS51507B2	1/8	Not available	Not available
MS51507A2CN	MS51507B2CN	1/8	Not available	Not available
MS51507A2E	MS51507B2E	1/8	Not available	Not available
MS51507A2F	MS51507B2F	1/8	Not available	Not available
MS51507A2H	MS51507B2H	1/8	Not available	Not available
MS51507A2J	MS51507B2J	1/8	Not available	Not available
MS51507A2M	MS51507B2M	1/8	J514-2-20-70701MA	J514-2-20-70701MB
MS51507A2N	MS51507B2N	1/8	J514-2-20-70701NA	J514-2-20-70701NB
MS51507A2P	MS51507B2P	1/8	J514-2-20-70701PA	J514-2-20-70701PB
MS51507A2R	MS51507B2R	1/8	Not available	Not available
MS51507A2S	MS51507B2S	1/8	J514-2-20-70701SA	J514-2-20-70701SB
MS51507A2T	MS51507B2T	1/8	J514-2-20-70701TA	J514-2-20-70701TB
MS51507A2TF	MS51507B2TF	1/8	Not available	Not available
MS51507A2Z	MS51507B2Z	1/8	J514-2-20-70701ZA	J514-2-20-70701ZB
MS51507A2ZN	MS51507B2ZN	1/8	Not available	Not available
MS51507A3	MS51507B3	3/16	Not available	Not available
MS51507A3CN	MS51507B3CN	3/16	Not available	Not available
MS51507A3E	MS51507B3E	3/16	Not available	Not available
MS51507A3F	MS51507B3F	3/16	Not available	Not available
MS51507A3H	MS51507B3H	3/16	Not available	Not available
MS51507A3J	MS51507B3J	3/16	Not available	Not available
MS51507A3M	MS51507B3M	3/16	J514-3-20-70701MA	J514-3-20-70701MB
MS51507A3N	MS51507B3N	3/16	J514-3-20-70701NA	J514-3-20-70701NB
MS51507A3P	MS51507B3P	3/16	J514-3-20-70701PA	J514-3-20-70701PB
MS51507A3R	MS51507B3R	3/16	Not available	Not available
MS51507A3S	MS51507B3S	3/16	J514-3-20-70701SA	J514-3-20-70701SB
MS51507A3T	MS51507B3T	3/16	J514-3-20-70701TA	J514-3-20-70701TB
MS51507A3TF	MS51507B3TF	3/16	Not available	Not available
MS51507A3Z	MS51507B3Z	3/16	J514-3-20-70701ZA	J514-3-20-70701ZB
MS51507A3ZN	MS51507B3ZN	3/16	Not available	Not available
MS51507A4	MS51507B4	1/4	Not available	Not available
MS51507A4CN	MS51507B4CN	1/4	Not available	Not available
MS51507A4E	MS51507B4E	1/4	Not available	Not available
MS51507A4F	MS51507B4F	1/4	Not available	Not available
MS51507A4H	MS51507B4H	1/4	Not available	Not available
MS51507A4J	MS51507B4J	1/4	Not available	Not available
MS51507A4M	MS51507B4M	1/4	J514-4-20-70701MA	J514-4-20-70701MB
MS51507A4N	MS51507B4N	1/4	J514-4-20-70701NA	J514-4-20-70701NB
MS51507A4P	MS51507B4P	1/4	J514-4-20-70701PA	J514-4-20-70701PB
MS51507A4R	MS51507B4R	1/4	Not available	Not available
MS51507A4S	MS51507B4S	1/4	J514-4-20-70701SA	J514-4-20-70701SB
MS51507A4T	MS51507B4T	1/4	J514-4-20-70701TA	J514-4-20-70701TB
MS51507A4TF	MS51507B4TF	1/4	Not available	Not available
MS51507A4Z	MS51507B4Z	1/4	J514-4-20-70701ZA	J514-4-20-70701ZB
MS51507A4ZN	MS51507B4ZN	1/4	Not available	Not available

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TABLE III. MS51507 to SAE-J514 cross reference - Continued.

Inactive for new design MS51507- PIN		Tube OD	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51507A5	MS51507B5	5/16	Not available	Not available
MS51507A5CN	MS51507B5CN	5/16	Not available	Not available
MS51507A5E	MS51507B5E	5/16	Not available	Not available
MS51507A5F	MS51507B5F	5/16	Not available	Not available
MS51507A5H	MS51507B5H	5/16	Not available	Not available
MS51507A5J	MS51507B5J	5/16	Not available	Not available
MS51507A5M	MS51507B5M	5/16	J514-5-2-070701MA	J514-5-2-070701MB
MS51507A5N	MS51507B5N	5/16	J514-5-2-070701NA	J514-5-2-070701NB
MS51507A5P	MS51507B5P	5/16	J514-5-2-070701PA	J514-5-2-070701PB
MS51507A5R	MS51507B5R	5/16	Not available	Not available
MS51507A5S	MS51507B5S	5/16	J514-5-2-070701SA	J514-5-2-070701SB
MS51507A5T	MS51507B5T	5/16	J514-5-2-070701TA	J514-5-2-070701TB
MS51507A5TF	MS51507B5TF	5/16	Not available	Not available
MS51507A5Z	MS51507B5Z	5/16	J514-5-2-070701ZA	J514-5-2-070701ZB
MS51507A5ZN	MS51507B5ZN	5/16	Not available	Not available
MS51507A6	MS51507B6	3/8	Not available	Not available
MS51507A6CN	MS51507B6CN	3/8	Not available	Not available
MS51507A6E	MS51507B6E	3/8	Not available	Not available
MS51507A6F	MS51507B6F	3/8	Not available	Not available
MS51507A6H	MS51507B6H	3/8	Not available	Not available
MS51507A6J	MS51507B6J	3/8	Not available	Not available
MS51507A6M	MS51507B6M	3/8	J514-6-4-070701MA	J514-6-4-070701MB
MS51507A6N	MS51507B6N	3/8	J514-6-4-070701NA	J514-6-4-070701NB
MS51507A6P	MS51507B6P	3/8	J514-6-4-070701PA	J514-6-4-070701PB
MS51507A6R	MS51507B6R	3/8	Not available	Not available
MS51507A6S	MS51507B6S	3/8	J514-6-4-070701SA	J514-6-4-070701SB
MS51507A6T	MS51507B6T	3/8	J514-6-4-070701TA	J514-6-4-070701TB
MS51507A6TF	MS51507B6TF	3/8	Not available	Not available
MS51507A6Z	MS51507B6Z	3/8	J514-6-4-070701ZA	J514-6-4-070701ZB
MS51507A6ZN	MS51507B6ZN	3/8	Not available	Not available
MS51507A8	MS51507B8	1/2	Not available	Not available
MS51507A8CN	MS51507B8CN	1/2	Not available	Not available
MS51507A8E	MS51507B8E	1/2	Not available	Not available
MS51507A8F	MS51507B8F	1/2	Not available	Not available
MS51507A8H	MS51507B8H	1/2	Not available	Not available
MS51507A8J	MS51507B8J	1/2	Not available	Not available
MS51507A8M	MS51507B8M	1/2	J514-8-6-070701MA	J514-8-6-070701MB
MS51507A8N	MS51507B8N	1/2	J514-8-6-070701NA	J514-8-6-070701NB
MS51507A8P	MS51507B8P	1/2	J514-8-6-070701PA	J514-8-6-070701PB
MS51507A8R	MS51507B8R	1/2	Not available	Not available
MS51507A8S	MS51507B8S	1/2	J514-8-6-070701SA	J514-8-6-070701SB
MS51507A8T	MS51507B8T	1/2	J514-8-6-070701TA	J514-8-6-070701TB
MS51507A8TF	MS51507B8TF	1/2	Not available	Not available
MS51507A8Z	MS51507B8Z	1/2	J514-8-6-070701ZA	J514-8-6-070701ZB
MS51507A8ZN	MS51507B8ZN	1/2	Not available	Not available

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TABLE III. MS51507 to SAE-J514 cross reference - Continued.

Inactive for new design MS51507- PIN		Tube OD	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51507A10	MS51507B10	5/8	Not available	Not available
MS51507A10CN	MS51507B10CN	5/8	Not available	Not available
MS51507A10E	MS51507B10E	5/8	Not available	Not available
MS51507A10F	MS51507B10F	5/8	Not available	Not available
MS51507A10H	MS51507B10H	5/8	Not available	Not available
MS51507A10J	MS51507B10J	5/8	Not available	Not available
MS51507A10M	MS51507B10M	5/8	J514-10-8-070701MA	J514-10-8-070701MB
MS51507A10N	MS51507B10N	5/8	J514-10-8-070701NA	J514-10-8-070701NB
MS51507A10P	MS51507B10P	5/8	J514-10-8-070701PA	J514-10-8-070701PB
MS51507A10R	MS51507B10R	5/8	Not available	Not available
MS51507A10S	MS51507B10S	5/8	J514-10-8-070701SA	J514-10-8-070701SB
MS51507A10T	MS51507B10T	5/8	J514-10-8-070701TA	J514-10-8-070701TB
MS51507A10TF	MS51507B10TF	5/8	Not available	Not available
MS51507A10Z	MS51507B10Z	5/8	J514-10-8-070701ZA	J514-10-8-070701ZB
MS51507A10ZN	MS51507B10ZN	5/8	Not available	Not available
MS51507A12	MS51507B12	3/4	Not available	Not available
MS51507A12CN	MS51507B12CN	3/4	Not available	Not available
MS51507A12E	MS51507B12E	3/4	Not available	Not available
MS51507A12F	MS51507B12F	3/4	Not available	Not available
MS51507A12H	MS51507B12H	3/4	Not available	Not available
MS51507A12J	MS51507B12J	3/4	Not available	Not available
MS51507A12M	MS51507B12M	3/4	J514-12-12-070701ZMA	J514-12-12-070701MB
MS51507A12N	MS51507B12N	3/4	J514-12-12-070701NA	J514-12-12-070701NB
MS51507A12P	MS51507B12P	3/4	J514-12-12-070701PA	J514-12-12-070701PB
MS51507A12R	MS51507B12R	3/4	Not available	Not available
MS51507A12S	MS51507B12S	3/4	J514-12-12-070701SA	J514-12-12-070701SB
MS51507A12T	MS51507B12T	3/4	J514-12-12-070701TA	J514-12-12-070701TB
MS51507A12TF	MS51507B12TF	3/4	Not available	Not available
MS51507A12Z	MS51507B12Z	3/4	J514-12-12-070701ZA	J514-12-12-070701ZB
MS51507A12ZN	MS51507B12ZN	3/4	Not available	Not available
MS51507A14	MS51507B14	7/8	Not available	Not available
MS51507A14CN	MS51507B14CN	7/8	Not available	Not available
MS51507A14E	MS51507B14E	7/8	Not available	Not available
MS51507A14F	MS51507B14F	7/8	Not available	Not available
MS51507A14H	MS51507B14H	7/8	Not available	Not available
MS51507A14J	MS51507B14J	7/8	Not available	Not available
MS51507A14M	MS51507B14M	7/8	J514-14-12-070701MA	J514-14-12-070701MB
MS51507A14N	MS51507B14N	7/8	J514-14-12-070701NA	J514-14-12-070701NB
MS51507A14P	MS51507B14P	7/8	J514-14-12-070701PA	J514-14-12-070701PB
MS51507A14R	MS51507B14R	7/8	Not available	Not available
MS51507A14S	MS51507B14S	7/8	J514-14-12-070701SA	J514-14-12-070701SB
MS51507A14T	MS51507B14T	7/8	J514-14-12-070701TA	J514-14-12-070701TB
MS51507A14TF	MS51507B14TF	7/8	Not available	Not available
MS51507A14Z	MS51507B14Z	7/8	J514-14-12-070701ZA	J514-14-12-070701ZB
MS51507A14ZN	MS51507B14ZN	7/8	Not available	Not available

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TABLE III. MS51507 to SAE-J514 cross reference - Continued.

Inactive for new design MS51507- PIN		Tube OD	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51507A16	MS51507B16	1	Not available	Not available
MS51507A16CN	MS51507B16CN	1	Not available	Not available
MS51507A16E	MS51507B16E	1	Not available	Not available
MS51507A16F	MS51507B16F	1	Not available	Not available
MS51507A16H	MS51507B16H	1	Not available	Not available
MS51507A16J	MS51507B16J	1	Not available	Not available
MS51507A16M	MS51507B16M	1	J514-16-16-070701MA	J514-16-16-070701MB
MS51507A16N	MS51507B16N	1	J514-16-16-070701NA	J514-16-16-070701NB
MS51507A16P	MS51507B16P	1	J514-16-16-070701PA	J514-16-16-070701PB
MS51507A16R	MS51507B16R	1	Not available	Not available
MS51507A16S	MS51507B16S	1	J514-16-16-070701SA	J514-16-16-070701SB
MS51507A16T	MS51507B16T	1	J514-16-16-070701TA	J514-16-16-070701TB
MS51507A16TF	MS51507B16TF	1	Not available	Not available
MS51507A16Z	MS51507B16Z	1	J514-16-16-070701ZA	J514-16-16-070701ZB
MS51507A16ZN	MS51507B16ZN	1	Not available	Not available
MS51507A20	MS51507B20	1 1/4	Not available	Not available
MS51507A20CN	MS51507B20CN	1 1/4	Not available	Not available
MS51507A20E	MS51507B20E	1 1/4	Not available	Not available
MS51507A20F	MS51507B20F	1 1/4	Not available	Not available
MS51507A20H	MS51507B20H	1 1/4	Not available	Not available
MS51507A20J	MS51507B20J	1 1/4	Not available	Not available
MS51507A20M	MS51507B20M	1 1/4	J514-20-20-070701MA	J514-20-20-070701MB
MS51507A20N	MS51507B20N	1 1/4	J514-20-20-070701NA	J514-20-20-070701NB
MS51507A20P	MS51507B20P	1 1/4	J514-20-20-070701PA	J514-20-20-070701PB
MS51507A20R	MS51507B20R	1 1/4	Not available	Not available
MS51507A20S	MS51507B20S	1 1/4	J514-20-20-070701SA	J514-20-20-070701SB
MS51507A20T	MS51507B20T	1 1/4	J514-20-20-070701TA	J514-20-20-070701TB
MS51507A20TF	MS51507B20TF	1 1/4	Not available	Not available
MS51507A20Z	MS51507B20Z	1 1/4	J514-20-20-070701ZA	J514-20-20-070701ZB
MS51507A20ZN	MS51507B20ZN	1 1/4	Not available	Not available
MS51507A24	MS51507B24	1 1/2	Not available	Not available
MS51507A24CN	MS51507B24CN	1 1/2	Not available	Not available
MS51507A24E	MS51507B24E	1 1/2	Not available	Not available
MS51507A24F	MS51507B24F	1 1/2	Not available	Not available
MS51507A24H	MS51507B24H	1 1/2	Not available	Not available
MS51507A24J	MS51507B24J	1 1/2	Not available	Not available
MS51507A24M	MS51507B24M	1 1/2	J514-24-24-070701MA	J514-24-24-070701MB
MS51507A24N	MS51507B24N	1 1/2	J514-24-24-070701NA	J514-24-24-070701NB
MS51507A24P	MS51507B24P	1 1/2	J514-24-24-070701PA	J514-24-24-070701PB
MS51507A24R	MS51507B24R	1 1/2	Not available	Not available
MS51507A24S	MS51507B24S	1 1/2	J514-24-24-070701SA	J514-24-24-070701SB
MS51507A24T	MS51507B24T	1 1/2	J514-24-24-070701TA	J514-24-24-070701TB
MS51507A24TF	MS51507B24TF	1 1/2	Not available	Not available
MS51507A24Z	MS51507B24Z	1 1/2	J514-24-24-070701ZA	J514-24-24-070701ZB
MS51507A24ZN	MS51507B24ZN	1 1/2	Not available	Not available

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TABLE III. MS51507 to SAE-J514 cross reference - Continued.

Inactive for new design MS51518- PIN		Tube OD	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51507A32	MS51507B32	2	Not available	Not available
MS51507A32CN	MS51507B32CN	2	Not available	Not available
MS51507A32E	MS51507B32E	2	Not available	Not available
MS51507A32F	MS51507B32F	2	Not available	Not available
MS51507A32H	MS51507B32H	2	Not available	Not available
MS51507A32J	MS51507B32J	2	Not available	Not available
MS51507A32M	MS51507B32M	2	J514-32-32-070701MA	J514-32-32-070701MB
MS51507A32N	MS51507B32N	2	J514-32-32-070701NA	J514-32-32-070701NB
MS51507A32P	MS51507B32P	2	J514-32-32-070701PA	J514-32-32-070701PB
MS51507A32R	MS51507B32R	2	Not available	Not available
MS51507A32S	MS51507B32S	2	J514-32-32-070701SA	J514-32-32-070701SB
MS51507A32T	MS51507B32T	2	J514-32-32-070701TA	J514-32-32-070701TB
MS51507A32TF	MS51507B32TF	2	Not available	Not available
MS51507A32Z	MS51507B32Z	2	J514-32-32-070701ZA	J514-32-32-070701ZB
MS51507A32ZN	MS51507B32ZN	2	Not available	Not available

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-18866, this document references the following:

FED-STD-595/36076	FED-STD-595/36293	ASTM B166	SAE-AMS4928
FED-STD-595/36081	MIL-DTL-16232	ASTM B564	SAE-AMS5639
FED-STD-595/36099	MIL-DTL-81706	ASTM B633	SAE-AMS5645
FED-STD-595/36118	MS51531	ASTM B695	SAE-AMS5647
FED-STD-595/36134	MS51533	ASTM F1136/F1136M	SAE-AMS5743
FED-STD-595/36152	MS51860	SAE-AMS-C-81562	SAE-AMS6370
FED-STD-595/36170	QQ-N-281	SAE-AMS-QQ-P-416	SAE-AMS6382
FED-STD-595/36173	ASME B1.1	SAE-AMS2417	SAE-J403
FED-STD-595/36176	ASTM A276/A276M	SAE-AMS2451/5	SAE-J425
FED-STD-595/36231	ASTM A564/A564M	SAE-AMS2451/9	SAE-J514
FED-STD-595/36251	ASTM A582/A582M	SAE-AMS2486	
FED-STD-595/36270	ASTM B117	SAE-AMS2488	
FED-STD-595/36280	ASTM B164	SAE-AMS2700	

MS51507B

CONCLUDING MATERIAL

Custodians:

Army - AR
Navy - OS
Air Force - 99
DLA - CC

Preparing activity:

DLA - CC

(Project 4730-2016-003)

Review activities:

Army - AT
Navy - MC
Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.dla.mil>.