

INCH-POUND

MS51523B
 17 March 2016
 SUPERSEDING
 MS51523A
 17 January 1979

DETAIL SPECIFICATION SHEET

TEE, TUBE TO SWIVEL, SWIVEL ON RUN,
 37 DEGREE 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.

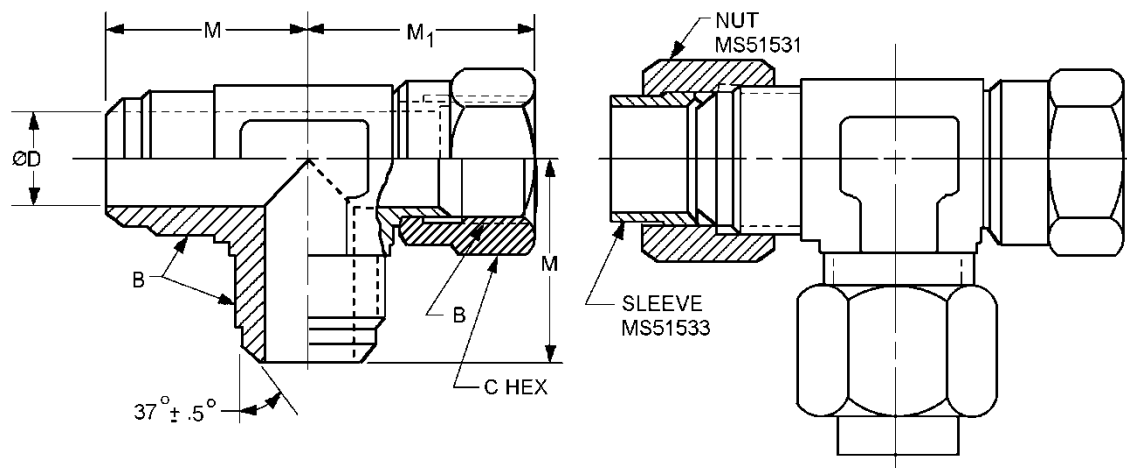


FIGURE 1. Tee, tube to swivel.



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Suffix designator		Tube OD nom.	B Straight thread Class A or B	C Hex flat Nom.	D diameter	
Assembly	Body (see note 7)				Basic inches (mm)	Tolerance inches (mm)
A2	B2	.1250 (3.175)	.3125-24 UNF-2	7/16	.062 (1.57)	±.003 (0.08)
A3	B3	.1875 (4.763)	.3750-24 UNF-2	1/2	.125 (3.18)	
A4	B4	.2500 (6.350)	.4375-20 UNF-2	9/16	.172 (4.37)	
A5	B5	.3125 (7.936)	.5000-20 UNF-2	5/8	.234 (5.94)	
A6	B6	.3750 (9.525)	.5625-18 UNF-2	11/16	.297 (7.54)	
A8	B8	.5000 (12.700)	.7500-16 UNF-2	7/8	.391 (9.93)	±.004 (0.10)
A10	B10	.6250 (15.875)	.8750-14 UNF-2	1	.484 (12.29)	
A12	B12	.7500 (19.050)	1.0625-12 UN-2	1 1/4	.609 (15.47)	±.005 (0.13)
A14	B14	.8750 (22.225)	1.1875-12 UN-2	1 3/8	.718 (18.24)	
A16	B16	1.0000 (25.400)	1.3125-12 UN-2	1 1/2	.844 (21.44)	±.007 (0.18)
A20	B20	1.2500 (31.750)	1.6250-12 UN-2	2	1.078 (27.38)	+.008 -.005 (+0.20 -0.13)
A24	B24	1.5000 (38.100)	1.8750-12 UN-2	2 1/4	1.312 (33.32)	
A32	B32	2.0000 (50.800)	2.500-12 UN-2	2 7/8	1.781 (45.24)	+.010 -.005 (+0.25 -.013)

Suffix designator		M inches (mm) ±.030 (0.08)	M ₁ inches (mm) ±.060 (0.15)
Assembly	Body		
A2	B2	.770 (19.56)	.970 (24.64)
A3	B3	.830 (21.08)	1.000 (25.40)
A4	B4	.890 (22.61)	1.000 (25.40)
A5	B5	.950 (24.13)	1.060 (26.92)
A6	B6	1.060 (26.92)	1.250 (31.75)
A8	B8	1.250 (31.75)	1.380 (35.05)
A10	B10	1.450 (36.83)	1.620 (41.15)
A12	B12	1.660 (42.16)	1.750 (44.45)
A14	B14	1.730 (43.94)	1.780 (45.21)
A16	B16	1.810 (45.97)	2.000 (50.80)
A20	B20	2.060 (52.32)	2.310 (58.67)
A24	B24	2.330 (59.18)	2.590 (65.79)
A32	B32	3.060 (77.72)	3.380 (85.85)

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. Dimensions and tolerances not shown shall be in accordance with SAE-J514 for 37° flared fittings.
5. The drawing is for identification purposes only and is not intended to restrict designs and shapes not dimensioned.
6. Threads shall be in accordance with ASME B1.1.
7. Bodies will be used for production only and shall not be stocked for maintenance.

FIGURE 1. Tee, tube to swivel - Continued.

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REQUIREMENTS:

Fittings shall be as specified on figure 1 and in 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	1117, 1126, 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 630 (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 2 or SAE-AMS-QQ-P-416, type II, class 2. <u>1/</u>
H	Steel	Zinc-Aluminum in accordance with ASTM F1136/F1136M, grade 3, NC.
J	Steel	Zinc-nickel in accordance with SAE-AMS2417, type 2, grade B. <u>3/</u>
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, class 4. <u>2/</u>
R	Steel	Zinc plating in accordance with ASTM B633; type VI, Fe/Zn 12. <u>5/</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. <u>4/</u>
TF	Titanium	Fluoride phosphate in accordance with SAE-AMS2486. <u>4/</u>
Z	Steel	Zinc plating in accordance with ASTM B633; type II or III, Fe/Zn 12, or ASTM B695, type II, class 12. <u>5/</u>
ZC	Steel	Zinc may be any zinc plating from PIN codes H, J, and R with a colored chromate coating <u>5/</u>

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

2/ Hexavalent chromium free. Finish shall be ROHS compliant.

3/ The zinc-nickel alloy plate shall contain 12% to 16% nickel. The coating thickness shall be 315µ inches (8µm) minimum coating thickness.

4/ 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.

5/ Not for use in aircraft. Requires approval from the Program Officer for all applications.

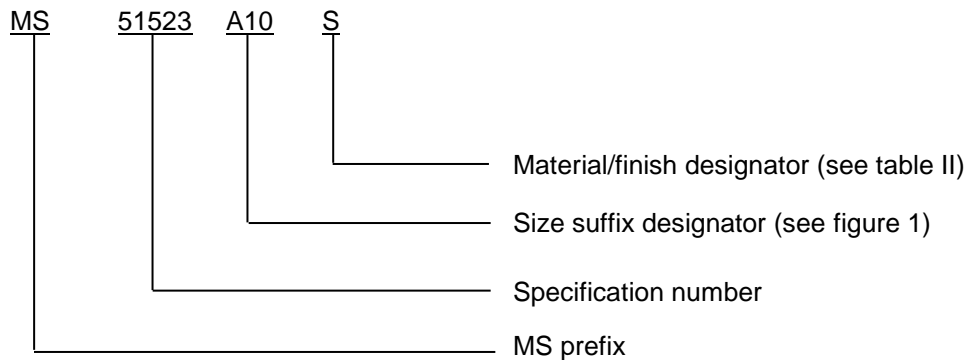
Trivalent wrenchability. When the finish has been damaged due to poor wrenchability, the surface of the connector shall be touched up using one of the brush plating processes below as appropriate to primary finish. The term "trivalent wrenchability" is used to evaluate the ability of the finish to withstand 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.

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

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



PIN example: MS51523A10S indicates a tee, tube to swivel, .6250 inch (15.875 mm), Corrosion resistant steel.

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 MS51523 PIN's and for new design SAE-J514 PIN's.

MS51523 parts have straight threads in accordance with ASME B1.1 the SAE parts have straight threads in accordance with SAE-J425.

Plating "P" SAE allows a range of nickel from 6% to 20%. Below 12%, ZnNi is not much better than zinc plating, which is less expensive and easier to apply. Above 16%, ZnNi becomes more cathodic and no longer acts as a sacrificial coating - if a high nickel coating is damaged the steel beneath the coating will corrode at an accelerated rate.

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. MS51523 to SAE-J514 cross reference.

Inactive for new design MS51523- PIN		TUBE O.D.	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51523A2	MS51523B2	1/8	Not available	Not available
MS51523A2H	MS51523B2H	1/8	Not available	Not available
MS51523A2J	MS51523B2J	1/8	Not available	Not available
MS51523A2M	MS51523B2M	1/8	J514-2-2-2-070432MA	J5142-2-2-070432MB
MS51523A2N	MS51523B2N	1/8	J514-2-2-2-070432NA	J5142-2-2-070432NB
MS51523A2P	MS51523B2P	1/8	J514-2-2-2-070432PA	J5142-2-2-070432PB
MS51523A2R	MS51523B2R	1/8	Not available	Not available
MS51523A2S	MS51523B2S	1/8	J514-2-2-2-070432SA	J5142-2-2-070432SB
MS51523A2T	MS51523B2T	1/8	J514-2-2-2-070432TA	J5142-2-2-070432TB
MS51523A2TF	MS51523B2TF	1/8	Not available	Not available
MS51523A2Z	MS51523B2Z	1/8	J514-2-2-2-070432ZA	J5142-2-2-070432ZB
MS51523A2ZC	MS51523B2ZC	1/8	Not available	Not available
MS51523A3	MS51523B3	3/16	Not available	Not available
MS51523A3H	MS51523B3H	3/16	Not available	Not available
MS51523A3J	MS51523B3J	3/16	Not available	Not available
MS51523A3M	MS51523B3M	3/16	J514-3-3-3-070432MA	J5143-3-3-3-070432MB
MS51523A3N	MS51523B3N	3/16	J514-3-3-3-070432NA	J5143-3-3-3-070432NB
MS51523A3P	MS51523B3P	3/16	J514-3-3-3-070432PA	J5143-3-3-3-070432PB
MS51523A3R	MS51523B3R	3/16	Not available	Not available
MS51523A3S	MS51523B3P	3/16	J514-3-3-3-070432SA	J5143-3-3-3-070432SB
MS51523A3T	MS51523B3T	3/16	J514-3-3-3-070432TA	J5143-3-3-3-070432TB
MS51523A3TF	MS51523B3TF	3/16	Not available	Not available
MS51523A3Z	MS51523B3Z	3/16	J514-3-3-3-070432ZA	J5143-3-3-3-070432ZB
MS51523A3ZC	MS51523B3ZC	3/16	Not available	Not available
MS51523A4	MS51523B4	1/4	Not available	Not available
MS51523A4H	MS51523B4H	1/4	Not available	Not available
MS51523A4J	MS51523B4J	1/4	Not available	Not available
MS51523A4M	MS51523B4M	1/4	J514-4-4-4-070432MA	J514-4-4-4-070432MB
MS51523A4N	MS51523B4N	1/4	J514-4-4-4-070432NA	J514-4-4-4-070432NB
MS51523A4P	MS51523B4P	1/4	J514-4-4-4-070432PA	J514-4-4-4-070432PB
MS51523A4R	MS51523B4R	1/4	Not available	Not available
MS51523A4S	MS51523B4S	1/4	J514-4-4-4-070432SA	J514-4-4-4-070432SB
MS51523A4T	MS51523B4T	1/4	J514-4-4-4-070432TA	J514-4-4-4-070432TB
MS51523A4TF	MS51523B4TF	1/4	Not available	Not available
MS51523A4Z	MS51523B4Z	1/4	J514-4-4-4-070432ZA	J514-4-4-4-070432ZB
MS51523A4ZC	MS51523B4ZC	1/4	Not available	Not available
MS51523A5	MS51523B5	5/16	Not available	Not available
MS51523A5H	MS51523B5H	5/16	Not available	Not available
MS51523A5J	MS51523B5J	5/16	Not available	Not available
MS51523A5M	MS51523B5M	5/16	J514-5-5-5-070432MA	J514-5-5-5-070432MB
MS51523A5N	MS51523B5N	5/16	J514-5-5-5-070432NA	J514-5-5-5-070432NB
MS51523A5P	MS51523B5P	5/16	J514-5-5-5-070432PA	J514-5-5-5-070432PB
MS51523A5R	MS51523B5R	5/16	Not available	Not available
MS51523A5S	MS51523B5S	5/16	J514-5-5-5-070432SA	J514-5-5-5-070432SB
MS51523A5T	MS51523B5T	5/16	J514-5-5-5-070432TA	J514-5-5-5-070432TB
MS51523A5TF	MS51523B5TF	5/16	Not available	Not available
MS51523A5Z	MS51523B5Z	5/16	J514-5-5-5-070432ZA	J514-5-5-5-070432ZB
MS51523A5ZC	MS51523B5ZC	5/16	Not available	Not available

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TABLE III. MS51523 to SAE-J514 cross reference - Continued.

Inactive for new design MS51523- PIN		Tube O.D.	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51523A6	MS51523B6	3/8	Not available	Not available
MS51523A6CN	MS51523B6CN	3/8	Not available	Not available
MS51523A6E	MS51523B6E	3/8	Not available	Not available
MS51523A6F	MS51523B6F	3/8	Not available	Not available
MS51523A6H	MS51523B6H	3/8	Not available	Not available
MS51523A6J	MS51523B6J	3/8	Not available	Not available
MS51523A6M	MS51523B6M	3/8	J514-6-6-6-070432MA	J5146-6-6-070432MB
MS51523A6N	MS51523B6N	3/8	J514-6-6-6-070432NA	J5146-6-6-070432NB
MS51523A6P	MS51523B6P	3/8	J514-6-6-6-070432PA	J5146-6-6-070432PB
MS51523A6R	MS51523B6R	3/8	Not available	Not available
MS51523A6S	MS51523B6S	3/8	J514-6-6-6-070432SA	J5146-6-6-070432SB
MS51523A6T	MS51523B6T	3/8	J514-6-6-6-070432TA	J5146-6-6-070432TB
MS51523A6TF	MS51523B6TF	3/8	Not available	Not available
MS51523A6Z	MS51523B6Z	3/8	J514-6-6-6-070432ZA	J5146-6-6-070432ZB
MS51523A6ZC	MS51523B6ZC	3/8	Not available	Not available
MS51523A8	MS51523B8	1/2	Not available	Not available
MS51523A8CN	MS51523B8CN	1/2	Not available	Not available
MS51523A8E	MS51523B8E	1/2	Not available	Not available
MS51523A8F	MS51523B8F	1/2	Not available	Not available
MS51523A8H	MS51523B8H	1/2	Not available	Not available
MS51523A8J	MS51523B8J	1/2	Not available	Not available
MS51523A8M	MS51523B8M	1/2	J514-8-8-8-070432MA	J514-8-8-8-070432MB
MS51523A8N	MS51523B8N	1/2	J514-8-8-8-070432NA	J514-8-8-8-070432NB
MS51523A8P	MS51523B8P	1/2	J514-8-8-8-070432PA	J514-8-8-8-070432PB
MS51523A8R	MS51523B8R	1/2	Not available	Not available
MS51523A8S	MS51523B8S	1/2	J514-8-8-8-070432SA	J514-8-8-8-070432SB
MS51523A8T	MS51523B8T	1/2	J514-8-8-8-070432TA	J514-8-8-8-070432TB
MS51523A8TF	MS51523B8TF	1/2	Not available	Not available
MS51523A8Z	MS51523B8Z	1/2	J514-8-8-8-070432ZA	J514-8-8-8-070432ZB
MS51523A8ZC	MS51523B8ZC	1/2	Not available	Not available
MS51523A10	MS51523B10	5/8	Not available	Not available
MS51523A10H	MS51523B10H	5/8	Not available	Not available
MS51523A10J	MS51523B10J	5/8	Not available	Not available
MS51523A10M	MS51523B10M	5/8	J514-10-10-10-070432MA	J514-10-10-10-070432MB
MS51523A10N	MS51523B10N	5/8	J514-10-10-10-070432NA	J514-10-10-10-070432NB
MS51523A10P	MS51523B10P	5/8	J514-10-10-10-070432PA	J514-10-10-10-070432PB
MS51523A10R	MS51523B10R	5/8	Not available	Not available
MS51523A10S	MS51523B10S	5/8	J514-10-10-10-070432SA	J514-10-10-10-070432SB
MS51523A10T	MS51523B10T	5/8	J514-10-10-10-070432TA	J514-10-10-10-070432TB
MS51523A10TF	MS51523B10TF	5/8	Not available	Not available
MS51523A10Z	MS51523B10Z	5/8	J514-10-10-10-070432ZA	J514-10-10-10-070432ZB
MS51523A10ZC	MS51523B10ZC	5/8	Not available	Not available

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TABLE III. MS51523 to SAE-J514 cross reference - Continued.

Inactive for new design MS51523- PIN		Tube O.D.	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51523A12	MS51523B12	3/4	Not available	Not available
MS51523A12H	MS51523B12H	3/4	Not available	Not available
MS51523A12J	MS51523B12J	3/4	Not available	Not available
MS51523A12M	MS51523B12M	3/4	J514-12-12-12-070432MA	J514-12-12-12-070432MB
MS51523A12N	MS51523B12N	3/4	J514-12-12-12-070432NA	J514-12-12-12-070432NB
MS51523A12P	MS51523B12P	3/4	J514-12-12-12-070432PA	J514-12-12-12-070432PB
MS51523A12R	MS51523B12R	3/4	Not available	Not available
MS51523A12S	MS51523B12S	3/4	J514-12-12-12-070432SA	J514-12-12-12-070432SB
MS51523A12T	MS51523B12T	3/4	J514-12-12-12-070432TA	J514-12-12-12-070432TB
MS51523A12TF	MS51523B12TF	3/4	Not available	Not available
MS51523A12Z	MS51523B12Z	3/4	J514-12-12-12-070432ZA	J514-12-12-12-070432ZB
MS51523A12ZC	MS51523B12ZC	3/4	Not available	Not available
MS51523A14	MS51523B14	7/8	Not available	Not available
MS51523A14H	MS51523B14H	7/8	Not available	Not available
MS51523A14J	MS51523B14J	7/8	Not available	Not available
MS51523A14M	MS51523B14M	7/8	J514-14-14-14-070432MA	J514-14-14-14-070432MB
MS51523A14N	MS51523B14N	7/8	J514-14-14-14-070432NA	J514-14-14-14-070432NB
MS51523A14P	MS51523B14P	7/8	J514-14-14-14-070432PA	J514-14-14-14-070432PB
MS51523A14R	MS51523B14R	7/8	Not available	Not available
MS51523A14S	MS51523B14S	7/8	J514-14-14-14-070432SA	J514-14-14-14-070432SB
MS51523A14T	MS51523B14T	7/8	J514-14-14-14-070432TA	J514-14-14-14-070432TB
MS51523A14TF	MS51523B14TF	7/8	Not available	Not available
MS51523A14Z	MS51523B14Z	7/8	J514-14-14-14-070432ZA	J514-14-14-14-070432ZB
MS51523A14ZC	MS51523B14ZC	7/8	Not available	Not available
MS51523A16	MS51523B16	1	Not available	Not available
MS51523A16H	MS51523B16H	1	Not available	Not available
MS51523A16J	MS51523B16J	1	Not available	Not available
MS51523A16M	MS51523B16M	1	J514-16-16-16-070432MA	J514-16-16-16-070432MB
MS51523A16N	MS51523B16N	1	J514-16-16-16-070432NA	J514-16-16-16-070432NB
MS51523A16P	MS51523B16P	1	J514-16-16-16-070432PA	J514-16-16-16-070432PB
MS51523A16R	MS51523B16R	1	Not available	Not available
MS51523A16S	MS51523B16S	1	J514-16-16-16-070432SA	J514-16-16-16-070432SB
MS51523A16T	MS51523B16T	1	J514-16-16-16-070432TA	J514-16-16-16-070432TB
MS51523A16TF	MS51523B16TF	1	Not available	Not available
MS51523A16Z	MS51523B16Z	1	J514-16-16-16-070432ZA	J514-16-16-16-070432ZB
MS51523A16ZC	MS51523B16ZC	1	Not available	Not available
MS51523A20	MS51523B20	1 1/4	Not available	Not available
MS51523A20H	MS51523B20H	1 1/4	Not available	Not available
MS51523A20J	MS51523B20J	1 1/4	Not available	Not available
MS51523A20M	MS51523B20M	1 1/4	J514-20-20-20-070432MA	J514-20-20-20-070432MB
MS51523A20N	MS51523B20N	1 1/4	J514-20-20-20-070432NA	J514-20-20-20-070432NB
MS51523A20P	MS51523B20P	1 1/4	J514-20-20-20-070432PA	J514-20-20-20-070432PB
MS51523A20R	MS51523B20R	1 1/4	Not available	Not available
MS51523A20S	MS51523B20S	1 1/4	J514-20-20-20-070432SA	J514-20-20-20-070432SB
MS51523A20T	MS51523B20T	1 1/4	J514-20-20-20-070432TA	J514-20-20-20-070432TB
MS51523A20TF	MS51523B20TF	1 1/4	Not available	Not available
MS51523A20Z	MS51523B20Z	1 1/4	J514-20-20-20-070432ZA	J514-20-20-20-070432ZB
MS51523A20ZC	MS51523B20ZC	1 1/4	Not available	Not available

MS51523B

TABLE III. MS51523 to SAE-J514 cross reference - Continued.

Inactive for new design MS51523- PIN		Tube O.D.	For new design SAE-J514 PIN	
Assembly	Body		Assembly	Body
MS51523A24	MS51523B24	1 1/2	Not available	Not available
MS51523A24H	MS51523B24H	1 1/2	Not available	Not available
MS51523A24J	MS51523B24J	1 1/2	Not available	Not available
MS51523A24M	MS51523B24M	1 1/2	J514-24-24-24-070432MA	J514-24-24-24-070432MB
MS51523A24N	MS51523B24N	1 1/2	J514-24-24-24-070432NA	J514-24-24-24-070432MB
MS51523A24P	MS51523B24P	1 1/2	J514-24-24-24-070432PA	J514-24-24-24-070432PB
MS51523A24R	MS51523B24R	1 1/2	Not available	Not available
MS51523A24S	MS51523B24S	1 1/2	J514-24-24-24-070432SA	J514-24-24-24-070432SB
MS51523A24T	MS51523B24T	1 1/2	J514-24-24-24-070432TA	J514-24-24-24-070432TB
MS51523A24TF	MS51523B24TF	1 1/2	Not available	Not available
MS51523A24Z	MS51523B24Z	1 1/2	J514-24-24-24-070432ZA	J514-24-24-24-070432ZB
MS51523A24ZC	MS51523B24ZC	1 1/2	Not available	Not available
MS51523A32	MS51523B32	2	Not available	Not available
MS51523A32CN	MS51523B32CN	2	Not available	Not available
MS51523A32E	MS51523B32E	2	Not available	Not available
MS51523A32F	MS51523B32F	2	Not available	Not available
MS51523A32H	MS51523B32H	2	Not available	Not available
MS51523A32J	MS51523B32J	2	Not available	Not available
MS51523A32M	MS51523B32M	2	J514-32-32-32-070432MA	J514-32-32-32-070432MB
MS51523A32N	MS51523B32N	2	J514-32-32-32-070432NA	J514-32-32-32-070432NB
MS51523A32P	MS51523B32P	2	J514-32-32-32-070432PA	J514-32-32-32-070432PB
MS51523A32R	MS51523B32R	2	Not available	Not available
MS51523A32S	MS51523B32S	2	J514-32-32-32-070432SA	J514-32-32-32-070432SB
MS51523A32T	MS51523B32T	2	J514-32-32-32-070432TA	J514-32-32-32-070432TB
MS51523A32TF	MS51523B32TF	2	Not available	Not available
MS51523A32Z	MS51523B32Z	2	J514-32-32-32-070432ZA	J514-32-32-32-070432ZB
MS51523A32ZC	MS51523B32ZC	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-595/36280	ASTM B166	SAE-AMS2700
FED-STD-595/36081	FED-STD-595/36293	ASTM B564	SAE-AMS4928
FED-STD-595/36099	MIL-DTL-16232	ASTM B633	SAE-AMS5639
FED-STD-595/36118	MS51531	ASTM B695	SAE-AMS5645
FED-STD-595/36134	MS51533	ASTM F1136/F1136M	SAE-AMS5647
FED-STD-595/36152	QQ-N-281	SAE-AMS-C-81562	SAE-AMS5743
FED-STD-595/36170	ASME B1.1	SAE-AMS-QQ-P-416	SAE-AMS6370
FED-STD-595/36173	ASTM A276/A276M	SAE-AMS2417	SAE-AMS6382
FED-STD-595/36176	ASTM A564/A564M	SAE-AMS2451/5	SAE-J403
FED-STD-595/36231	ASTM A582/A582M	SAE-AMS2451/9	SAE-J425
FED-STD-595/36251	ASTM B117	SAE-AMS2486	SAE-J514
FED-STD-595/36270	ASTM B164	SAE-AMS2488	

MS51523B

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 4730-2016-023)

Review activities:

Army - AT, MI
Navy - CG, MC, SA, SH
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 <https://assist.dla.mil>.