FEDERAL SUPPLY CLASS
5120

RATIONALE

SPECIFICATION IS BEING WRITTEN TO PERMIT THE CANCELLATION AND SUPERSESSION OF MS90387.

NOTICE

THE REQUIREMENTS FOR PROCURING THE TOOLS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF SAE AS81306.

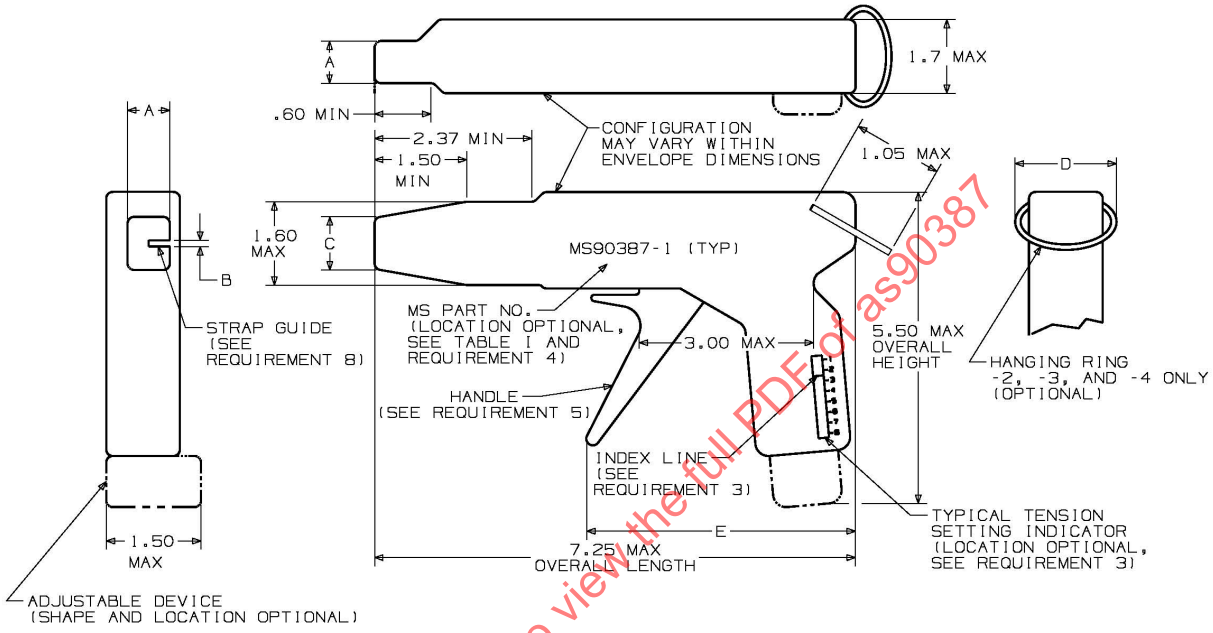
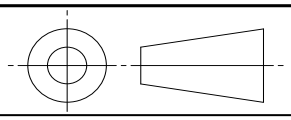


FIGURE 1 - MS90387 TOOL DIMENSIONS AND CONFIGURATION (SEE DESIGN REQUIREMENTS)

THIRD ANGLE PROJECTION



ISSUED 2009-12

CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS81306

SAE Aerospace
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AEROSPACE STANDARD

WIRING INSTALLATION HAND TOOLS FOR METAL AND PLASTIC STRAPS

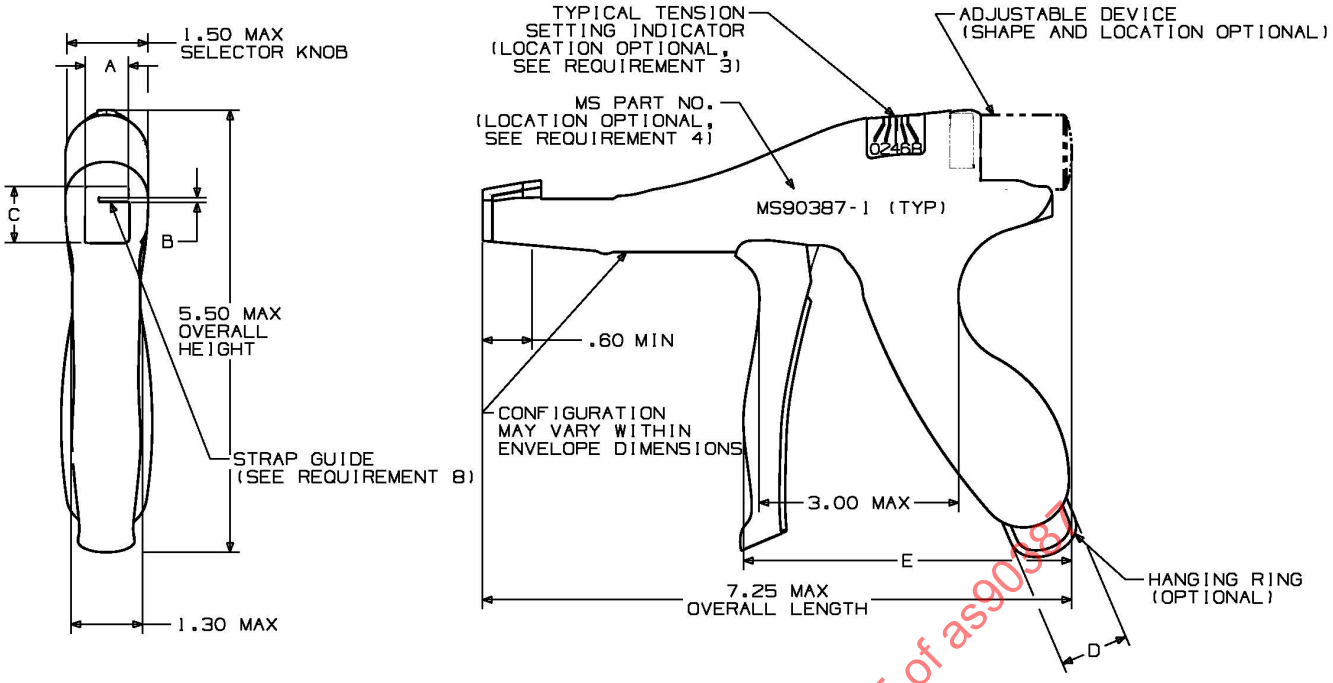

FIGURE 2 - MS90387 ERGONOMIC TOOL DIMENSIONS AND CONFIGURATION (SEE DESIGN REQUIREMENTS)

TABLE 1 - FIGURE 1 AND 2 DIMENSIONS

PART NO (SEE NOTE 1)	FIGURE	A MAX	B MIN	B MAX	C MAX	D MAX	E MAX	INSTRUCTION FIELD COLOR
MS90387-1	1 OR 2	.65	.055	.065	1.00	1/	4.63	BLACK
MS90387-2	1 OR 2	.85	.083	.090	1.34	1.20	4.63	RED
MS90387-3	1	1.16	.015	.045	1.48	1.20	4.63	BLACK
MS90387-4	1	.85	.095	.105	1.34	1.20	4.63	BLUE
MS90387-5	1 OR 2	.65	.055	.065	1.00	1/	3.50	MAROON

1/ NOT APPLICABLE

TABLE 2 - TOOL AND PLASTIC TIEDOWN STRAP CROSS-REFERENCE

TOOL		PLASTIC TIEDOWN STRAP SIZES		
MS PART NO.	TENSION SETTING RANGE (SEE NOTE 4)	MS PART NOS.	STRAP IDENTIFICATION CODE	STRAP MIN TENSILE, LBS (REFERENCE)
MS90387-1 MS90387-5 (SEE NOTE 4)	1-3	MS3367-4,-26,-30,-31,-32 MS3368-5	MIN (MINIATURE)	18
	3-5	MS3367-5,-27,-33,-34,-35	INT (INTERMEDIATE)	30
	6-8	MS3367-1,-2,-7,-23,-24, -29,-36,-37,-38,-39 MS3368-1,-2,-3,-4	STD (STANDARD)	50
MS90387-2	1-4	MS3367-1,-2,-7,-23,-24, -29,-36,-37,-38,-39 MS3368-1,-2,-3,-4	STD (STANDARD)	50
	5-8	MS3367-3,-6,-8 TO -18, -25,-28,-40,-41	HVY (HEAVY)	120
MS90387-3	1-4	M23190/3-1 TO /3-4	STD (STANDARD)	100
	5-8	M23190/3-5 TO /3-9	HVY (HEAVY)	250
MS90387-4	1-4	MS3367-3,-6,-8, -18 TO -25,-28,-40,-41	HVY (HEAVY)	120
	5-8	MS3367-19 TO -22	EH (EXTRA HEAVY)	250

REQUIREMENTS:

1. FINISH: SEE AS81306.
2. TOOLS SHALL HAVE NO BURRS, SHARP EDGES OR SHARP CORNERS.
3. THE INDEX LINE AND EIGHT TENSION STATION LINES SHALL BE CLEAR AND DISTINGUISHABLE. INCREASING STATION LINE NUMBERS SHALL REPRESENT INCREASING TENSION LOAD (SEE NOTE 2).
4. INSTRUCTIONS AND PART NUMBERS SHALL HAVE WHITE OR SILVER LETTERING ON A FIELD COLORED AS SPECIFIED IN TABLE 1 AND SHALL BE SECURELY ATTACHED TO THE TOOL. TENSION SETTING RANGES CORRELATED TO THE STRAP IDENTIFICATION CODES SPECIFIED IN TABLE 2 SHALL BE INDICATED ON THE TOOL (SEE NOTE 3).
5. THE HANDLE SHALL BE SPRING RETURNED, SHALL FACILITATE GRASPING, AND SHALL BE COLORED SAME AS THE INSTRUCTIONS FIELD.
6. THE TOOL TENSION SETTING SHALL NOT CHANGE DURING CONSECUTIVE OPERATIONS.
7. THE TOOL SHALL TENSION AND AUTOMATICALLY SEVER THE STRAP WITHOUT DETRIMENT TO STRAP PERFORMANCE AS SPECIFIED BY AS23190. THE TOOL SHALL BE DESIGNED TO CUT THE STRAP PARALLEL WITH THE STRAP HEAD.
8. THE ENTRY EDGE(S) OF THE STRAP SHALL PERMIT EASY ENTRY OF THE STRAP.
9. AS90387 SHALL BE THE ONLY TOOLS TO BE PROCURED AND STOCKED FOR GOVERNMENT USE TO INSTALL PLASTIC AND METAL TIEDOWN STRAPS.