

REV. B

SAE AS90387

FEDERAL SUPPLY CLASS
5120

RATIONALE

SPECIFICATION BEING REVISED TO INCREASE AVAILABLE TOOL TYPES.

NOTICE

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

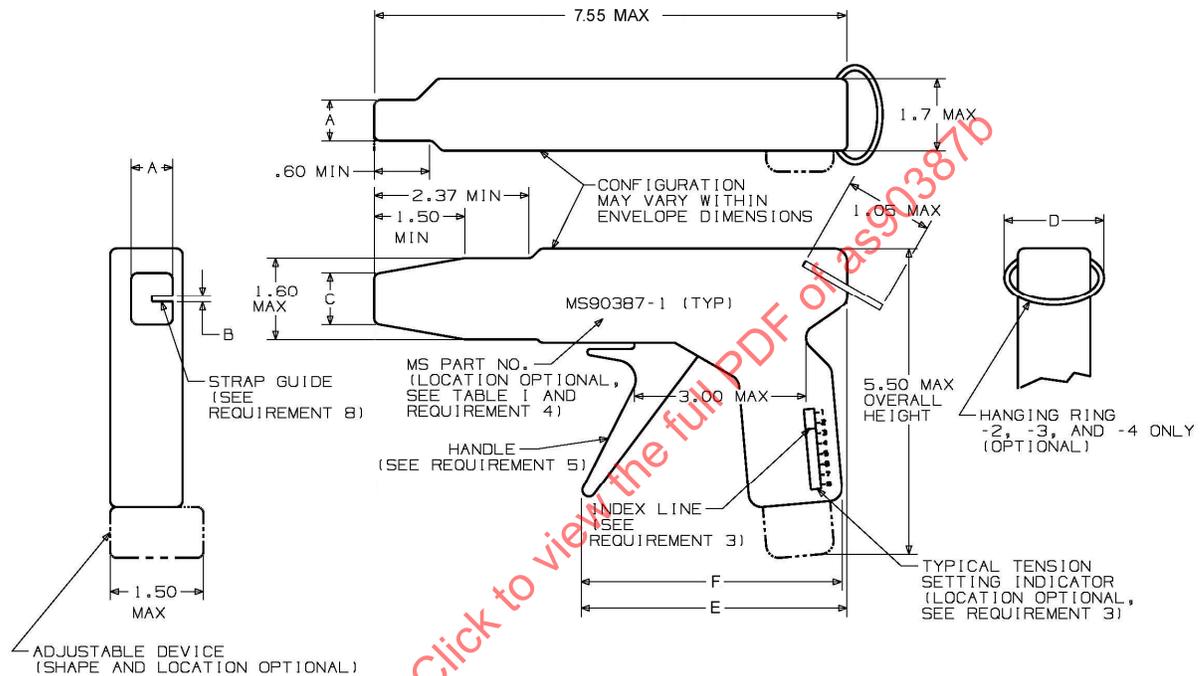


FIGURE 1 - MS90387 TOOL DIMENSIONS AND CONFIGURATION (SEE DESIGN REQUIREMENTS)

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CUSTODIAN: AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS81306

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD
(R) WIRING INSTALLATION TOOLS
FOR PLASTIC AND METAL TIEDOWN STRAPS

SAE AS90387
SHEET 1 OF 4

REV. B

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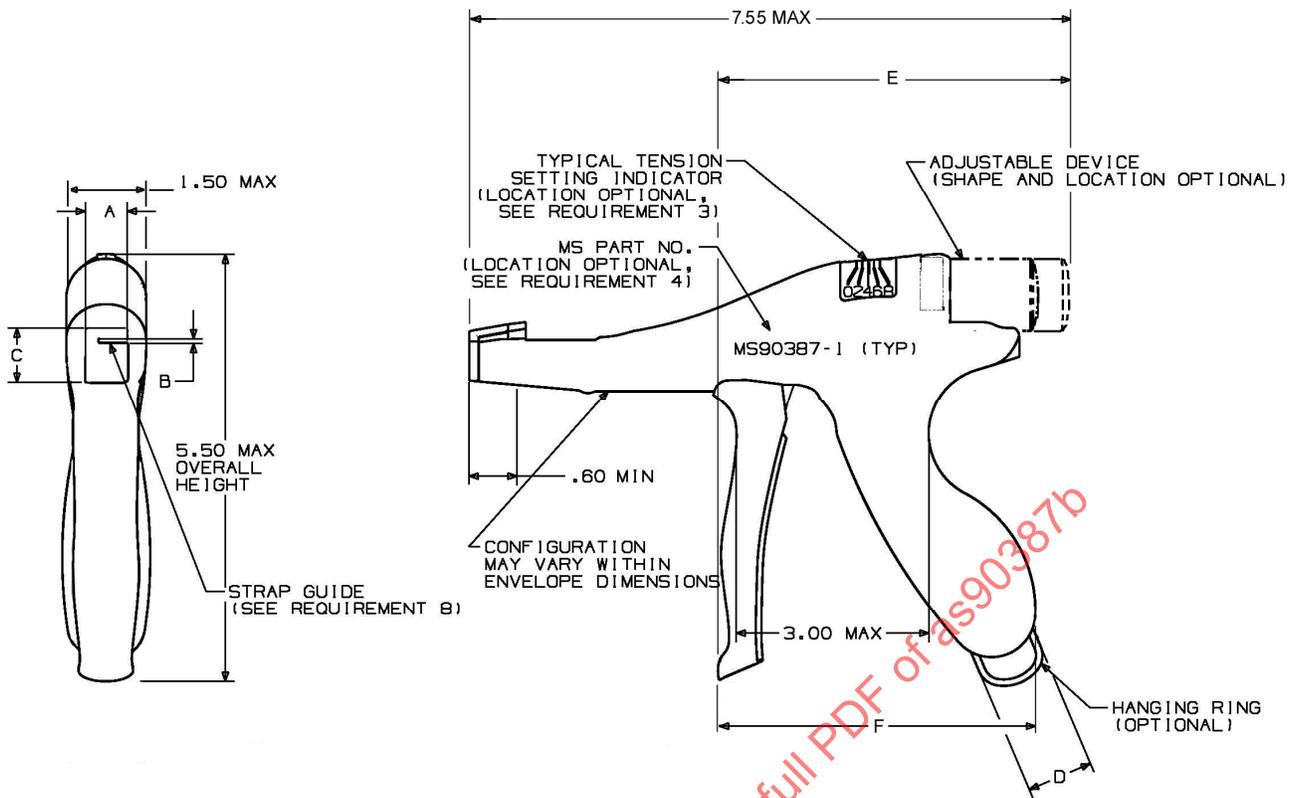


FIGURE 2 - MS90387 OPTIONAL TOOL DIMENSIONS AND CONFIGURATION (SEE DESIGN REQUIREMENTS)

TABLE 1 - FIGURE 1 AND 2 DIMENSIONS (ALL UNITS ARE IN INCHES)

MS PART NO	TIE MATERIAL	FIGURE	A MAX	B MIN	B MAX	C MAX	D MAX 1/	E MAX	F MAX	INSTRUCTION FIELD COLOR
MS90387-1	PLASTIC	1 OR 2	.65	.055	.065	1.00	N/A	4.63	4.30	BLACK
MS90387-2	PLASTIC	1 OR 2	.85	.083	.090	1.34	1.20	4.63	4.30	RED
MS90387-3	METAL	1	1.16	.015	.045	1.48	1.20	4.63	4.05	BLACK
MS90387-4	PLASTIC	1	.85	.095	.105	1.34	1.20	4.63	4.05	BLUE
MS90387-5	PLASTIC	1 OR 2	.65	.055	.065	1.00	N/A	4.30	3.60	MAROON

1/ N/A - NOT APPLICABLE

TABLE 2 - TOOL AND TIEDOWN STRAP CROSS-REFERENCE

TOOL		TIEDOWN STRAP SIZES			
MS PART NO.	TENSION SETTING RANGE (SEE APPLICATION NOTE 1)	TIE MATERIAL	MS PART NOS.	STRAP IDENTIFICATION CODE	STRAP MIN TENSILE, LB (REFERENCE)
MS90387-1 MS90387-5 (SEE APPLICATION NOTE 1)	1-3	PLASTIC	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	PLASTIC	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	METAL	M23190/3-1 TO /3-4	STD (STANDARD)	100
	5-8		M23190/3-5 TO /3-9	HVY (HEAVY)	250
MS90387-4	1-4	PLASTIC	MS3367-3,-6,-8, -18 TO -25,-28,-40,-41	HVY (HEAVY)	120
	5-8		MS3367-19 TO -22	EH (EXTRA HEAVY)	250

REQUIREMENTS AS SPECIFIED IN AS81306

1. FINISH: SEE SAE 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 1).
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 2).
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 SAE 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.