



SC-159

REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
0	ORIGINAL RELEASE FOR PRODUCTION	5-16-64		SRG		

NOMINAL SIZE	D		A		H		S	J	T		F		L	M	N	
	SCREW DIA.		HEAD DIA.		HEAD HEIGHT		HEAD SIDE HEIGHT	HEX SOCKET SIZE	KEY ENGAGEMENT		FILLET		STANDARD LENGTH	PELLET DIA.	PELLET LOCATION	
	BASIC	MAX.	MIN.	MAX.	MIN.	DEF.	NOM.	MIN.	MAX.	MIN.	MAX.	MIN.		UNC	UNF	
2	0.0860	0.164	0.154	0.046	0.038	0.010	0.050	0.028	0.010	0.005			.030	.063	.063	
3	0.0990	0.188	0.176	0.052	0.044	0.010	1/16	0.035	0.010	0.005			.040	.063	.063	
4	0.1120	0.213	0.201	0.059	0.051	0.015	1/16	0.035	0.010	0.005			.063	.093	.078	
5	0.1250	0.238	0.226	0.066	0.058	0.015	5/64	0.044	0.010	0.005			.063	.093	.093	
6	0.1380	0.262	0.250	0.073	0.063	0.015	5/64	0.044	0.010	0.005			.080	.109	.093	
8	0.1640	0.312	0.298	0.087	0.077	0.015	3/32	0.052	0.015	0.010			.093	.109	.109	
10	0.1900	0.361	0.347	0.101	0.091	0.020	1/8	0.070	0.015	0.010			.093	.141	.141	
1/4	0.2500	0.437	0.419	0.132	0.122	0.031	5/32	0.087	0.020	0.015			.108	.172	.156	
5/16	0.3125	0.547	0.527	0.166	0.152	0.031	3/16	0.105	0.020	0.015			.140	.187	.187	
3/8	0.3750	0.656	0.636	0.199	0.185	0.031	7/32	0.122	0.020	0.015			.153	.203	.187	
1/2	0.5000	0.875	0.851	0.265	0.245	0.046	5/16	0.175	0.030	0.020			.153	.234	.203	
5/8	0.6250	1.000	0.970	0.331	0.311	0.062	3/8	0.210	0.030	0.020			.184	.281	.250	

THREAD SIZES & CODES		
ALL THDS SHALL BE CLASS 2A		
THREAD SIZE	TMC THD CODE	THREAD SERIES
2-56	0256	UNC
3-48	0348	UNC
4-40	0440	UNC
5-40	0540	UNC
6-32	0632	UNC
8-32	0832	UNC
8-36	0836	UNF
10-24	1024	UNC
10-32	1032	UNF
1/4-20	2520	UNC
1/4-28	2528	UNF
5/16-18	3118	UNC
5/16-24	3124	UNF
3/8-16	3716	UNC
3/8-24	3724	UNF
1/2-13	5013	UNC
5/8-11	6210	UNC

TMC CODE	MATERIAL
S	STEEL, PLAIN
S	STAINLESS STEEL, TYPE 18-18

TMC CODE	FINISH	TMC SPEC.
N	BRIGHT NICKEL	S-135
S	PASSIVATE STAINLESS STEEL ONLY	S-104
P	SILVER PLATE	S-245
O	BLACK OXIDE	
C	CADMIUM PLATE	S-105

NOMINAL SCREW SIZE	NOMINAL SCREW LENGTH	STANDARD LENGTH INCREMENT
2 TO 5/8	1/8 THRU 1/4	1/16
	1/4 THRU 1	1/8
	1 THRU 2	1/4

1- THREAD LENGTH- FOR SCREWS OF LENGTHS EQUAL TO OR SHORTER THAN MAXIMUM LENGTHS LISTED IN CHART-1, THE COMPLETE (FULL FORM) THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD. FOR LONGER SCREWS, THE LENGTH OF COMPLETE THREAD SHALL, AT THE OPTION OF THE MANUFACTURER, BE BETWEEN THE MINIMUM LIMIT OF TWICE THE DIAMETER PLUS 1/2" AND THE MAXIMUM LIMIT OF TO WITHIN 2 THREADS OF THE HEAD.

2- ALL SPECS SHALL BE IN ACCORDANCE WITH AMERICAN STD B2.3-1961

**NOTES**

TMC PART NO. TO BE IN THE FOLLOWING FORM:

SC-159-0440 SS 8

BASIC TMC NO	THREADS SEE CHART 2	MATERIAL SEE CHART 3	FINISH SEE CHART 4	LENGTH IN 1/16
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QTY/UNIT    MODEL USED ON    ASSY NO

SCALE    CODE

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REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
	REUDET1		LIST OF MATERIAL	
	MATERIAL	SEE CHART 3	THE TECHNICAL MATERIEL CORP.	
	FINISH	SEE CHART 4	MAMARONECK, NEW YORK	
			TITLE	SCREW, NYLOCK, SOCKET HEAD, BUTTON
			DRAWN	DATE
			CHKD	DATE
			ELECT	DATE
			MECH DES	DATE
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
			DECIMALS	FRACTIONS
			X ± .05	± 1/64
			XX ± .01	ANGLES
			XXX ± .005	± 0° 30'
			TOLERANCES	
			SC-159	0
			SHEET	REV LTR.