



HEAD MARKING SHALL BE RAISED OR DEPRESSED (.010 MAX) AND ARRANGED AS FOLLOWS:

 MARK WITH BASIC PART NUMBER ("PSC" OPTIONAL) EXCEPT MARK .1120-40 SIZE WITH "4", .1380-32 SIZE WITH "6", .1640-32 SIZE WITH "8", AND OPTIONAL .1900-32 SIZE WITH "10". ALSO MARK 'C' FOR A286 CRES. FIRST SECTOR

SECOND SECTOR - MARK WITH LEGHTH DASH NUMBER AND MARK WITH MANUFACTURER'S SYMBOL OR TRADEMARK

(SYMBOL LOCATION OPTIONAL IN ANY SECTOR)

THIRD SECTOR - MARK WITH RECESS DASH NUMBER, ENCIRCLED. RECESS NUMBER SHOULD BE APPROXIMATELY 25%

LARGER THAN OTHER NUMERALS IN HEAD MARKING. (NOTE 9)

TABLE I DIMENSIONS

ø DASH NUMBER	THREAD SIZE	HEX A	MIN. B	MAX. øD	н	DIA. MIN. J	RADIUS R	DIA. MAX. U	RECESS SIZE
-04	.1120-40	.189/.181	.207	.112	.060/.049	.156	.010/.005	.031	1
-06	.1380-32	.251/.243	.268	.138	.093/.080	.215	.010/.005	.039	
-08	.1640-32	.251/243	.268	.164	.110/.096	.215	.020/.010	.039	2
-3	.1900-32	.313/.305	.339	.190	.120/.105	.275	.020/.010	.039	

TABLE II

	DASH NUMBER FOR PREFERRED LENGTH																								
DASH NO.	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32	34	то	96
LENGTH	.19	.25	.31	.38	.44	.50	.56	.62	.69	.75	.81	.88	.94	1.00	1.12	1.25	1.38	1.50	1.62	1.75	1.88	2.00	2.12	то	6.00
LENGTH TOL.	+.0003										+.0006								+.0009						

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SCREW, HEX HEAD, FULL THREAD TITLE: **ACR® RIBBED PHILLIPS® RECESS** A286 CRES, NON-LOCKING

DRAWING NUMBER DRAWN: DATE: S. GUARINO 09 - 14 - 79PSC-741 CHECKED: DATE: G. LaMONICA 08-09-04 PHILLIPS SCREW CO., 508 EDGEWATER DRIVE, WAKEFIELD, MA 01880 U.S.A. PHONE: 781-224-9750 FAX: 781-224-9753

PHILLIPS II® PHILLIPS® POZIDRIV® ACR® POZISQUARE® PHILLIPS SQUARE-DRIV® TORQ-SET® TRI-WING® MORTORQ® ARE REGISTERED TRADEMARKS OF THE PHILLIPS SCREW COMPANY

HEAT TREAT: 160 KSI MINIMUM ULTIMATE TENSILE.

UNPLATED SCREWS - PASSIVATED TO MEET REQUIRMENTS OF NAS 4003. FINISH:

PLATED SCREWS

CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2. EMBRITTLEMENT TEST PER QQ-P-416 DOES NOT APPLY. CADMIUM PLATED A286 CRES SCREWS SHALL BE IDENTIFIED WITH GREEN DYE OR PAINT ON THE THREAD END. MAXIMUM COVERAGE

MAY INCLUDE THE CHAMFER PLUS ONE COMPLETE THREAD.

COATED SCREWS - ALUMINUM COATING PER NAS4006.

CODE: BASIC PART NUMBER = NON SELF-LOCKING SCREW (SEE TABLE I).

FIRST DASH NUMBER INDICATES DIAMETER.

ADD "A" AFTER DIAMETER DASH NUMBER FOR ALUMINUM COATED SCREWS. MAY BE USED WITH "L" OR ADD "U" AFTER DIAMETER DASH NUMBER FOR UNPLATED SCREWS.

SECOND DASH NUMBER INDICATES LENGTH IN .0625 INCREMENTS. SEE TABLE II FOR TABULATIONS OF LENGTH DIMENSIONS. INTERMEDIATE OR LONGER LENGTHS MAY BE SPECIFIED BY USE OF WHOLE DASH NUMBERS ONLY.

EXAMPLE OF PART NUMBER:

NOTES:

- DIAMETER OF UNTHREADED PORTION OF SCREW SHALL NOT BE LESS THAN MINIMUM PITCH DIAMETER NOR (1) MORE THAN MAXIMUM MAJOR DIAMETER OF THREAD.
- (2) SCREWS LESS THAN 2 DIAMETERS IN LENGTH - COMPLETE THREADS SHALL EXTEND TO WITHIN 2 PITCHES OF BEARING SURFACE OF HEAD AND INCOMPLETE THREADS MAY EXTEND UP TO BEARING SURFACE. SCREWS 2 DIAMETERS THRU 2 INCHES IN LENGTH — COMPLETE THREADS SHALL EXTEND TO WITHIN 2 PITCHES OF TANGENCY OF "R" AND INCOMPLETE THREADS MAY EXTEND UP TO "R" FILLET AREA. SCREWS LONGER THAN 2 INCHES — COMPLETE THREADS SHALL EXTEND A MINIMUM OF 1.75 INCHES FROM END OF SCREWS AND INCOMPLETE THREADS MAY EXTEND UP TO "R" FILLET AREA. INCOMPLETE THREADS - SEE NAS4003.
- CONCENTICITY: 'J' DIAMETER TO THREAD PITCH DIAMETER WITHIN .005 FIM. (3)
- (4) MAXIMUM 'J' DIAMETER SHALL NOT EXCEED ACTUAL 'A' DIMENSION.
- BEARING SURFACE SQUARENESS: WITHIN .003 FIM OF SHANK DIAMETER. (5)
- MINIMUM TORQUE VALUES (LBF-IN) WHICH RECESS MUST DEVELOP IN REMOVAL DIRECTION WITH APPROPRIATE DRIVERS PER NAS8500 THROUGH 8506 AND 5 POUND MAXIMUM END LOAD. CAMOUT OF THE DRIVER OR EXCESSIVE DEFORMATION OF THE RECESS SHALL BE CAUSE FOR REJECTION. (6)
- (7) DIMENSIONS TO BE MET AFTER PLATING.
- DIMENSIONS ARE IN INCHES. (8)
- "A" = ALUMINUM COATED AND "U" = UNPLATED CODES NEED NOT APPEAR ON THE HEAD OF THE BOLT. (9)
- MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR FIELD STRENGTH H = 200 OERSTEDS (10)USING A MAGNETIC PERMEABILITY INDICATOR PER MIL-I-17214 OR EQUIVALENT.

SURFACE TEXTURE:

(AA MAX PER ANSI B46.1) HEAD TO SHANK FILLET, THREAD FLANKS AND THREAD ROOT 32; BEARING SURFACE OF HEAD 63; OTHER SURFACES 125.

PROCUREMENT SPECIFICATION:

NAS4003, EXCEPT AS NOTED. COLD WORKING OF HEAD TO SHANK FILLET IS NOT REQUIRED. RECESS TORQUE VALUES SHALL NOT APPLY.

PREPARED FOR ROLLS-ROYCE TO REPLACE NAS6000-6003

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