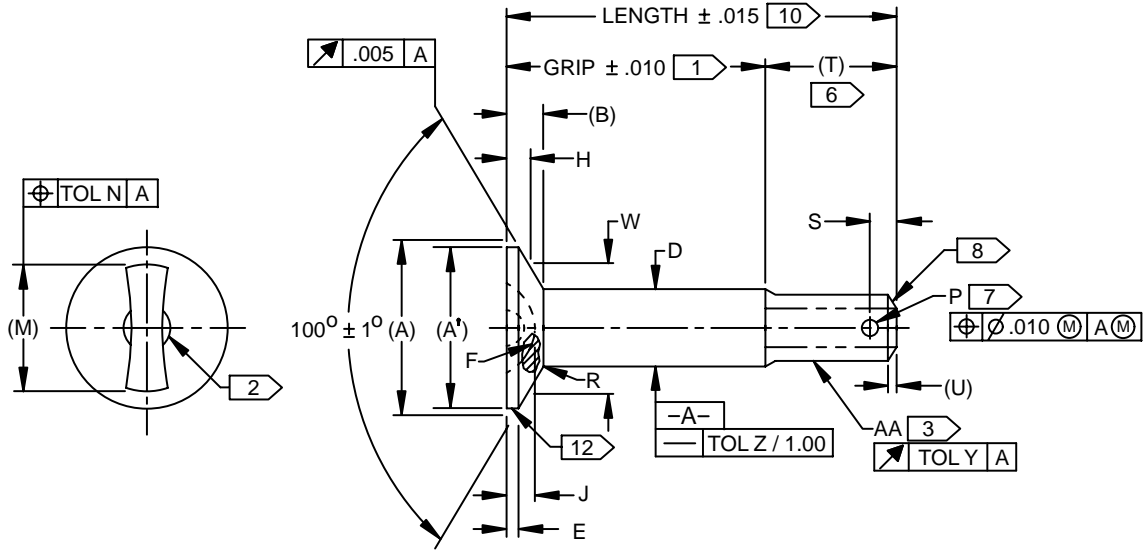


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BOOK 23. DO NOT USE FOR NEW DESIGN.

FOR STATUS OF INACTIVATION
SEE APPLICABILITY BLOCK



DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
DIMENSIONS APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.

TABLE I

BOEING STANDARD NUMBER BACB30DL (11)	AA THREAD UNJF-3A (3)	ØA TO SHARP CORNER MAX (4)	ØA' ABS MIN (4)	B HEAD HEIGHT MAX (4)	Ø D		E MAX	F RAD ±.010	H GAGE PROTRUSION (5)	
					MIN	MAX			NOM	± TOL
3	.1900-32	.383	.337	.083	.1895	.1890	.015	.281	.0215	.0015
4	.2500-28	.510	.455	.112	.2495	.2490	.018	.437	.0305	.0017
5	.3125-24	.637	.574	.139	.3120	.3115	.021	.500	.0360	.0018
6	.3750-24	.765	.691	.167	.3745	.3740	.025	.625	.0420	.0019

TECHNICAL CHANGES IDENTIFIED BY REVISION BAR.

DATE 06-MAR-1958 REV (K) 03-AUG-2005

CAGE CODE 81205

BACB30DL
SH 1 OF 8

BOLT,
100 DEG HEAD, DOVETAIL RECESS,
125 KSI SHEAR, CORROSION RESISTING
STEEL, LONG THREAD

BACB30DL
SH 1 OF 8

BOEING PART STANDARD
BOOK 23. DO NOT USE FOR NEW DESIGN.

BOOK 23. DO NOT USE FOR NEW DESIGN.

FOR STATUS OF INACTIVATION
SEE APPLICABILITY BLOCK

TABLE I (CONTINUED)

BOEING STANDARD NUMBER BACB30DL 11	J		M REF	N TOL	Ø P +.010 -.000	R RAD	
	MAX	MIN				MAX	MIN
3	.045	.042	.305	.016	.070	.020	.010
4	.054	.051	.422		.076	.020	.010
5	.064	.061	.490	.024	.076	.025	.010
6	.088	.084	.639		.106	.030	.015

TABLE I (CONTINUED)

BOEING STANDARD NUMBER BACB30DL 11	S ± .010	T REF 6	U REF	Ø W GAGE +.0002 -.0000 5	Y TOL	Z TOL	MIN BOLT TORQUE IN. LBS. 9
3	.117	.338	.016	.3270	.0045	.0040	60
4	.116	.425	.018	.4318	.0045	.0030	145
5	.119	.469	.021	.5449	.0045	.0030	309
6	.120	.578	.021	.6580	.0060	.0025	536

TABLE II 13

SECOND DASH NUMBER	GRIP 1	LENGTH			
		.1900-32	.2500-32	.3125-24	.3750-24
1	.062	.400	.487	.531	.640
2	.125	.463	.550	.594	.703
3	.188	.526	.613	.657	.766
4	.250	.588	.675	.719	.828
5	.312	.650	.737	.781	.890
6	.375	.713	.800	.844	.953
7	.438	.776	.863	.907	1.016
8	.500	.838	.925	.969	1.078

DATE 06-MAR-1958 REV (K) 03-AUG-2005

CAGE CODE 81205

BACB30DL

SH 2

**BOLT,
100 DEG HEAD, DOVETAIL RECESS,
125 KSI SHEAR, CORROSION RESISTING
STEEL, LONG THREAD**

BACB30DL

SH 2

**BOEING PART STANDARD
BOOK 23. DO NOT USE FOR NEW DESIGN.**

BOOK 23. DO NOT USE FOR NEW DESIGN.FOR STATUS OF INACTIVATION
SEE APPLICABILITY BLOCK**TABLE II (CONTINUED)** 13

SECOND DASH NUMBER	GRIP 1	LENGTH			
		.1900-32	.2500-32	.3125-24	.3750-24
9	.562	.900	.987	1.031	1.140
10	.625	.963	1.050	1.094	1.203
11	.688	1.026	1.113	1.157	1.266
12	.750	1.088	1.175	1.219	1.328
13	.812	1.150	1.237	1.281	1.390
14	.875	1.213	1.300	1.344	1.453
15	.938	1.276	1.363	1.407	1.516
16	1.000	1.338	1.425	1.469	1.578
17	1.062	1.400	1.487	1.531	1.640
18	1.125	1.463	1.550	1.594	1.703
19	1.188	1.526	1.613	1.657	1.766
20	1.250	1.588	1.675	1.719	1.828
21	1.312	1.650	1.737	1.781	1.890
22	1.375	1.713	1.800	1.844	1.953
23	1.438	1.776	1.863	1.907	2.016
24	1.500	1.838	1.925	1.969	2.078
25	1.562	1.900	1.987	2.031	2.140
26	1.625	1.963	2.050	2.094	2.203
27	1.688	2.026	2.113	2.157	2.266
28	1.750	2.088	2.175	2.219	2.328
29	1.812	2.150	2.237	2.281	2.390
30	1.875	2.213	2.300	2.344	2.453
31	1.938	2.276	2.363	2.407	2.516
32	2.000	2.338	2.425	2.469	2.578
34	2.125	2.463	2.550	2.594	2.703
36	2.250	2.588	2.675	2.719	2.828
38	2.375	2.713	2.800	2.844	2.953

DATE 06-MAR-1958 REV (K) 03-AUG-2005

CAGE CODE 81205

BACB30DL**SH 3**

BOLT,
100 DEG HEAD, DOVETAIL RECESS,
125 KSI SHEAR, CORROSION RESISTING
STEEL, LONG THREAD

BACB30DL**SH 3****BOEING PART STANDARD****BOOK 23. DO NOT USE FOR NEW DESIGN.**

BOOK 23. DO NOT USE FOR NEW DESIGN.FOR STATUS OF INACTIVATION
SEE APPLICABILITY BLOCK**TABLE II (CONTINUED)** 13

SECOND DASH NUMBER	GRIP 1	LENGTH			
		.1900-32	.2500-32	.3125-24	.3750-24
40	2.500	2.838	2.925	2.969	3.078
42	2.625	2.963	3.050	3.094	3.203
44	2.750	3.088	3.175	3.219	3.328
46	2.875	3.213	3.300	3.344	3.453
48	3.000	3.338	3.425	3.469	3.578
50	3.125	3.463	3.550	3.594	3.703
52	3.250	3.588	3.675	3.719	3.828
54	3.375	3.713	3.800	3.844	3.953
56	3.500	3.838	3.925	3.969	4.078
58	3.625	3.963	4.050	4.094	4.203
60	3.750	4.088	4.175	4.219	4.328
62	3.875	4.213	4.300	4.344	4.453
64	4.000	4.338	4.425	4.469	4.578
66	4.125	4.463	4.550	4.594	4.703
68	4.250	4.588	4.675	4.719	4.828
70	4.375	4.713	4.800	4.844	4.953
72	4.500	4.838	4.925	4.969	5.078
74	4.625	4.963	5.050	5.094	5.203
76	4.750	5.088	5.175	5.219	5.328
78	4.875	5.213	5.300	5.344	5.453
80	5.000	5.338	5.425	5.469	5.578
82	5.125	5.463	5.550	5.594	5.703
84	5.250	5.588	5.675	5.719	5.828
86	5.375	5.713	5.800	5.844	5.953
88	5.500	5.838	5.925	5.969	6.078
90	5.625	5.963	6.050	6.094	6.203
92	5.750	6.088	6.175	6.219	6.328
94	5.875	6.213	6.300	6.344	6.453
96	6.000	6.338	6.425	6.469	6.578

DATE 06-MAR-1958 REV (K) 03-AUG-2005

CAGE CODE 81205

BACB30DL**SH 4**

BOLT,
100 DEG HEAD, DOVETAIL RECESS,
125 KSI SHEAR, CORROSION RESISTING
STEEL, LONG THREAD

BACB30DL**SH 4**

BOEING PART STANDARD
BOOK 23. DO NOT USE FOR NEW DESIGN.

BOOK 23. DO NOT USE FOR NEW DESIGN.

FOR STATUS OF INACTIVATION
SEE APPLICABILITY BLOCK

NOTES

- 1 TO DETERMINE THE GRIP LENGTH NUMBER, DIVIDE THE TOTAL THICKNESS OF PARTS BEING JOINED BY .0625. ROUND OFF DECIMALS TO NEXT LARGER WHOLE NUMBER.
TO DETERMINE THE NOMINAL GRIP LENGTH, MULTIPLY THE GRIP LENGTH NUMBER BY .0625. THE GRIP LENGTH IS MEASURED FROM THE TOP OF THE HEAD TO THE END OF THE FULL CYLINDRICAL PORTION OF SHANK.
- 2 RECESS STYLE I PER NASM33750
- 3 THREAD PER AS8879.
- 4 DIMENSIONS A, A' AND B ARE INCLUDED FOR ENGINEERING REFERENCE PURPOSES ONLY AND ARE NOT TO BE USED FOR INSPECTION PURPOSES. VALUES A, A' AND B ARE CALCULATED LIMITS RESULTING FROM TOLERANCES ON D, W, H, E AND C.
- 5 INSPECTION OF GAGE PROTRUSION "H" AT GAGE DIAMETER "W" SHALL CONFORM TO BOEING DOCUMENT D-11805.
- 6 THE "T" DIMENSION IS NOMINAL AND DOES NOT HAVE AN APPLIED TOLERANCE. DIMENSION "T" IS NOT TO BE INSPECTED BUT IS USED IN CALCULATION OF NOMINAL BOLT LENGTH.
- 7 WHEN SPECIFIED, COUNTERSINK OPTIONAL.
- 8 END SHALL BE FLAT AND CHAMFERED PER BPS-F-69.
- 9 VALUES BASED ON USE OF SOLID DRIVER. THE RECESS SHALL NOT DISTORT AT TORQUE VALUES LESS THAN THOSE SHOWN ABOVE. BOLTS SHALL BE TORQUE TESTED WITH APPLICABLE NASM33750 DRIVER WITH AXIAL END PRESSURE NOT EXCEEDING 15 LBS. BOLTS ARE REJECTABLE IF MINIMUM TORQUE LISTED IN TABLE I CAUSES FRACTURE OF BOLT OR DISTORTION WHICH RESULTS IN RAISE OF METAL AT EDGE OF SLOT EXCEEDING .005 ABOVE SURROUNDING AREA.
- 10 TOLERANCE SHALL BE APPLIED TO A NOMINAL DIMENSION DETERMINED BY ADDING THE NOMINAL GRIP LENGTH (GRIP LENGTH NUMBER TIMES .0625) AND THE NOMINAL THREAD LENGTH "T" FROM TABLE I.
- 11 SEE CODING UNDER USAGE AND APPLICATION FOR COMPLETE BOEING PART NUMBER.
- 12 CURVED EDGE OPTIONAL.
- 13 INTERMEDIATE OR LONGER LENGTHS MAY BE SPECIFIED BY USE OF WHOLE DASH NUMBER ONLY.
- 14 NO LONGER IN OPERATION. PARTS MANUFACTURED PRIOR TO JANUARY 17, 1994 MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

DATE 06-MAR-1958 REV (K) 03-AUG-2005

CAGE CODE 81205

BACB30DL**SH 5**

**BOLT,
100 DEG HEAD, DOVETAIL RECESS,
125 KSI SHEAR, CORROSION RESISTING
STEEL, LONG THREAD**

BACB30DL**SH 5****BOEING PART STANDARD****BOOK 23. DO NOT USE FOR NEW DESIGN.**

BOOK 23. DO NOT USE FOR NEW DESIGN.

FOR STATUS OF INACTIVATION
SEE APPLICABILITY BLOCK

NOTES (CONTINUED)

- 15** HUCK LAKEWOOD (FORMERLY DEUTSCH FASTENER CORP) IS NO LONGER IN OPERATION. PARTS MANUFACTURED AT THAT FACILITY (CAGE CODE 97928) UNDER EITHER NAME PRIOR TO OCTOBER 1, 1999 MAY BE PROCURED AND USED BY BOEING AND ITS SUBCONTRACTORS UNTIL STOCKS ARE DEPLETED.
- 16** FAIRCHILD FASTENERS (TEMPLE) IS NOW ALCOA FASTENING SYSTEMS – INDUSTRY (TEMPLE). THIS CHANGE WAS A NAME CHANGE ONLY. STOCK MANUFACTURED UNDER THE FAIRCHILD NAME MAY BE PROCURED AND USED UNTIL DEPLETED.
- 17** FAIRCHILD FASTENERS (UNRUH) IS NOW ALCOA FASTENING SYSTEMS – INDUSTRY (UNRUH). THIS CHANGE WAS A NAME CHANGE ONLY. STOCK MANUFACTURED UNDER THE FAIRCHILD NAME MAY BE PROCURED AND USED UNTIL DEPLETED.

PROCUREMENT SPECIFICATION

BPS-F-69, CLASS 125SC6.

MATERIAL

PH13-8 Mo PER AMS 5629.

FINISH

PASSIVATE PER AMS-QQ-P-35, TYPE VIII.

SURFACE TEXTURE

PER ASME B46.1, CONICAL SURFACE OF HEAD, HEAD TO SHANK FILLET, THREAD ROOT, THREAD FLANKS AND SHANK, 63 MICROINCHES Ra, BOTTOM SURFACE OF RECESS 250 MICROINCHES Ra, ALL OTHER SURFACES, 125 MICROINCHES Ra.

HEAD MARKING

BOEING BASIC NUMBER, DASH NUMBER, LETTERS "D", "C" AS APPLICABLE AND MANUFACTURERS SYMBOL. MARKING DEPRESSED .010 MAX, ARRANGEMENT OPTIONAL. "BAC" MAY BE OMITTED ON SIZES .1900-32 AND .2500-28.

DATE 06-MAR-1958 REV (K) 03-AUG-2005

CAGE CODE 81205

BACB30DL

SH 6

**BOLT,
100 DEG HEAD, DOVETAIL RECESS,
125 KSI SHEAR, CORROSION RESISTING
STEEL, LONG THREAD**

BACB30DL

SH 6

**BOEING PART STANDARD
BOOK 23. DO NOT USE FOR NEW DESIGN.**

BOOK 23. DO NOT USE FOR NEW DESIGN.

FOR STATUS OF INACTIVATION
SEE APPLICABILITY BLOCK

PROCUREMENT

ALCOA FASTENING SYSTEMS – INDUSTRY (TEMPLE) (CAGE CODE 06950) 16

ALCOA FASTENING SYSTEMS – INDUSTRY (UNRUH) (CAGE CODE 1RC86) 17

FAIRCHILD FASTENERS, CHATSWORTH OPERATIONS (CAGE CODE 9N513) 14

HI-SHEAR CORP (CAGE CODE 73197)

HUCK INTERNATIONAL INC, LAKEWOOD OPERATIONS (CAGE CODE 97928) 15

SPS TECHNOLOGIES, AEROSPACE PRODUCTS DIV (CAGE CODE 56878)

THE MANUFACTURERS LISTED IN BPS-F-69SUP AND THEIR AUTHORIZED DISTRIBUTORS ARE THE ONLY APPROVED SOURCES FOR THE ABOVE QUALIFIED PRODUCTS. SEE BPS-F-69SUP FOR PLANT ADDRESSES. NO CHANGES IN PRODUCT DESIGN, BASIC METHODS OF MANUFACTURE, PLANT SITE OR QUALITY LEVEL SHALL BE MADE WITHOUT PRIOR NOTIFICATION AND PRIOR APPROVAL IN WRITING FROM THE BOEING COMPANY. MANUFACTURERS OF COMPETITIVE PRODUCTS MAY APPLY TO A SUPPLIER MANAGEMENT AND PROCUREMENT DEPARTMENT OF THE BOEING COMPANY FOR QUALIFICATION. IF A MANUFACTURER IS SHOWN ON THIS STANDARD, BUT IS NOT LISTED IN THE SUPPLEMENT, CONTACT THE DIVISIONAL ENGINEERING STANDARDS FOCAL POINT OR ENGINEERING STANDARDS FOR VERIFICATION.

USAGE AND APPLICATION INFORMATION

FOR USE IN APPLICATIONS THAT CAN UTILIZE 125 KSI SHEAR STRENGTH AT ROOM TEMPERATURE OR APPROXIMATELY 80 KSI AT 900 F, IT IS RECOMMENDED THAT BACB30DL BOLTS BE INSTALLED WITH LOW HEIGHT A286 NUTS, SUCH AS SHOWN ON BACN10JC. THESE NUTS WILL DEVELOP AT LEAST 125 KSI TENSILE IN BACB30DL BOLTS AT ROOM TEMPERATURE. THE BOLTS ARE PROVIDED WITH GREATER THREAD LENGTH THAN GENERALLY REQUIRED FOR LOW HEIGHT NUTS. THIS WAS DONE TO ALLOW SUFFICIENT THREADS FOR EXTREME VARIATIONS IN THICKNESS OF BOLTED MATERIAL AND TO PROVIDE SUFFICIENT BOLT THREAD TO ACCOMMODATE HIGHER NUTS. IF NUTS ARE DEVELOPED WHICH WILL CARRY THE FULL TENSILE STRENGTH OF THESE BOLTS THE NUTS WILL UNDOUBTEDLY HAVE GREATER HEIGHT THAN THOSE RECOMMENDED ABOVE. WHERE TEMPERATURES DO NOT EXCEED 450 F. THESE BOLTS MAY BE USED WITH STANDARD CADMIUM PLATED NUTS (450 F).

DATE 06-MAR-1958 REV (K) 03-AUG-2005

CAGE CODE 81205

BACB30DL

SH 7

**BOLT,
100 DEG HEAD, DOVETAIL RECESS,
125 KSI SHEAR, CORROSION RESISTING
STEEL, LONG THREAD**

BACB30DL

SH 7

**BOEING PART STANDARD
BOOK 23. DO NOT USE FOR NEW DESIGN.**

BOOK 23. DO NOT USE FOR NEW DESIGN.

FOR STATUS OF INACTIVATION
SEE APPLICABILITY BLOCK

CODING

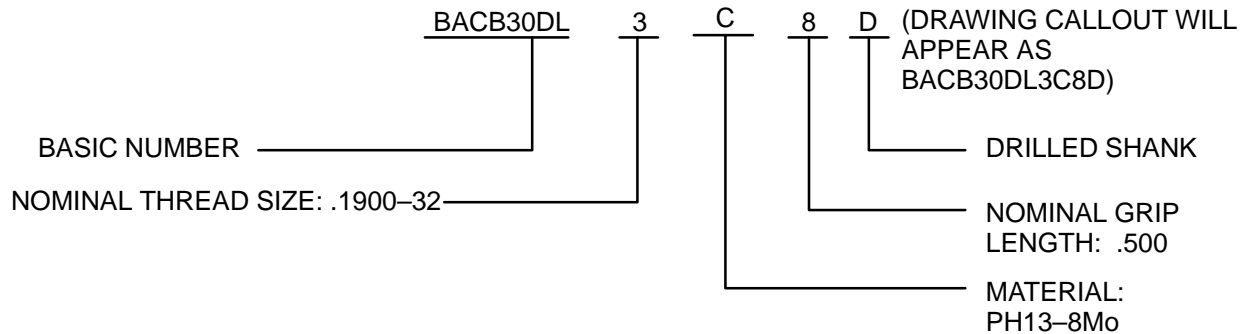
FIRST DASH NUMBER DESIGNATES NOMINAL THREAD SIZE PER TABLE I.

LETTER "C" FOLLOWING FIRST DASH NUMBER DESIGNATES PH13-8 Mo MATERIAL.

SECOND DASH NUMBER DESIGNATES NOMINAL GRIP LENGTH IN .0625 INCREMENTS.

LETTER "D" FOLLOWING SECOND DASH NUMBER DESIGNATES A DRILLED SHANK.

EXAMPLE OF PART NUMBER



SEE D-590-PREFACE (INDEX) FOR INACTIVATION DEFINITIONS. SEE D-590-SUPERSESSION-LIST FOR SUPERSESSION CLASS DEFINITIONS AND SUPERSESSION LIST.

INACTVATION APPLICABILITY

- BCA -** BACB30DL(3 THRU 6)-() (NO CODE, D) (PH15-7Mo) ARE INACTIVE FOR DESIGN AND PROCUREMENT.
BACB30DL(3 THRU 6)C() (NO CODE, D) ARE CLASS II SUPERSESSIONS.
- BH, IDS -** BACB30DL IS INACTIVE FOR NEW DESIGN. SEE BACB30SW.

DATE 06-MAR-1958 REV (K) 03-AUG-2005

CAGE CODE 81205

BACB30DL

SH 8

BOLT,
100 DEG HEAD, DOVETAIL RECESS,
125 KSI SHEAR, CORROSION RESISTING
STEEL, LONG THREAD

BACB30DL

SH 8

BOEING PART STANDARD
BOOK 23. DO NOT USE FOR NEW DESIGN.