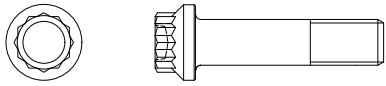
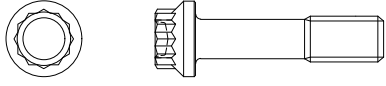
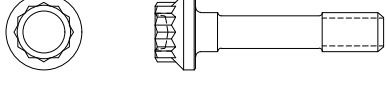
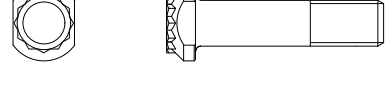
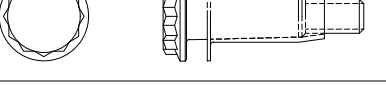
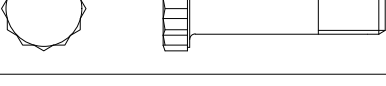
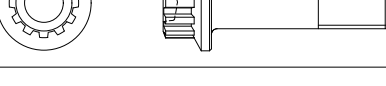
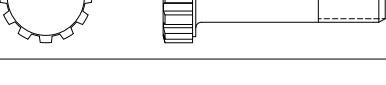
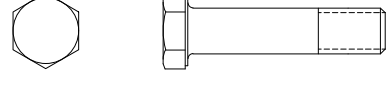
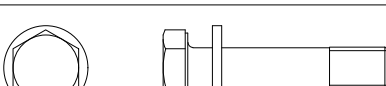
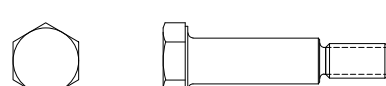
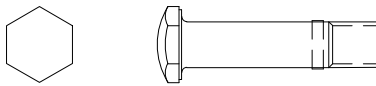
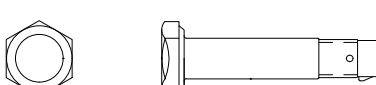
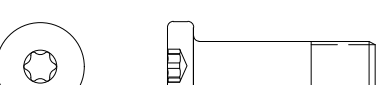
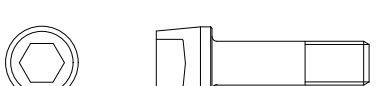
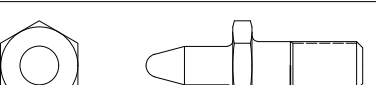
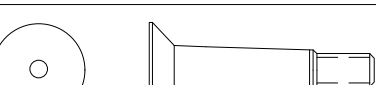
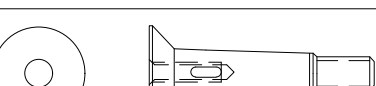
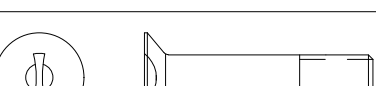
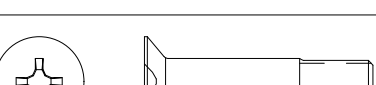
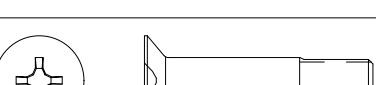

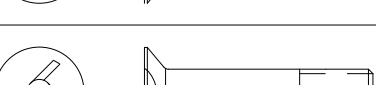


BRILES AEROSPACE

Dwg #	Drawing	Basic Configuration and Part Series
1		12-PT TENSION HEAD B-3347, BACB30LE, BACB30MR**, BACB30PN, BACB30US, BACB30XL*, NAS624 THRU NAS644, MS21250, MS21287, ST3M571*, ST3M607*, 3D0031, LD111-0020 THRU LD111-0025, 34000D1572253
2		12-PT TENSION HEAD MS9715
3		12-PT TENSION HEAD, REDUCED SHANK 375807
4		12-PT MODIFIED HEAD B-7435
5		BOLT, SLEEVED, TAPER SHANK, 12-PT BACB31AD, BACB31AF
6		12-PT SHEAR HEAD BACB30LT, BACB30UU, ST3M497*, ST3M453*, ST3M507*
7		SPLINE DRIVE TENSION HEAD MS14181, MS14490, MS21296, MS21297, MS21134, 3D0013, 3D0028, 3D0073, 3D0108, 3D0166, 3M1263*, ST3M753*, 07-9150-02
8		SPLINE DRIVE SHEAR HEAD ST3M744*, ST3M747*, ST3M837*, ST3M838*, 3D0029, 3D0146
9		HEX HEAD BACB30LJ, BACB30LM, BACB30NM, BACB30NR, BACB30XJ*, BACB30XN*, NAS653 THRU NAS658, NAS673 THRU NAS678, NAS1223 THRU NAS1235, NAS1303 THRU NAS1320, NAS1953 THRU NAS1970, NAS6203 THRU NAS6220, NAS6303 THRU NAS6320, NAS6403 THRU NAS6420, NAS6603 THRU NAS6620, NAS6703 THRU NAS6720, NAS6803 THRU NAS6820, NAS9703 THRU NAS9724, 3D0075, 107083, A-3203, 69-63788, 3M1031*
10		HEX HEAD WITH CAPTIVE WASHER 3M881*
11		SHOULDER BOLT BACB30PF*, BACB30PU*, BACB30PW**, 3D0124, ST3M494*, ST3M834*

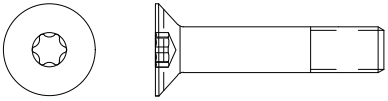
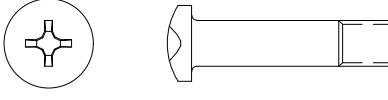
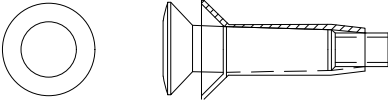
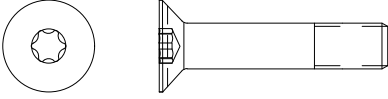
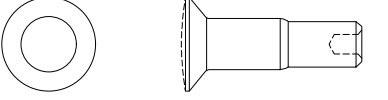
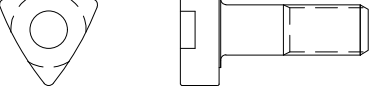
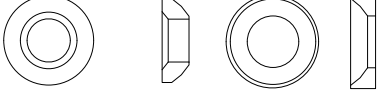
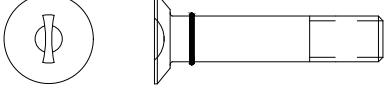
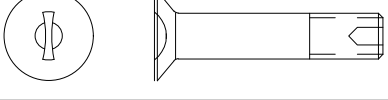
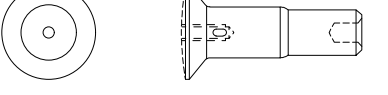
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Dwg #	Drawing	Basic Configuration and Part Series
12		HEX HEAD SELF-RETAINING BOLT IMPEDANCE TYPE MS27576
13		HEX HEAD SELF-RETAINING BOLT BACB30ST
14		PAN HEAD WITH SIX LOBE RECESS 3M1273*, 3M1343*, NAS5318
15		MACHINE BOLT TAPERED HEAD HEX RECESS MS20004 THRU MS20024, 07-9184-01
16		HEX HEAD WITH STUD 3M943*, 3M1315*
17		100° HEAD WITH TAPER SHANK ST3M350*, NAS1725
18		100° HEAD WITH TAPER SHANK 3M486* (WITH INJECTION PORT)
19		100° HEAD WITH DOVETAIL RECESS BACB30LL*, BACB30LP*, BACB30MN**, BACB30MS*, BACB30NU*, BACB03XK*, BACB30WP*, BACB30UW, NAS663 THRU NAS668, NAS1221, ST3M466*, 3M958*, NAS1580, 3M263*
20		100° HEAD WITH CRUCIFORM RECESS BACB30LH*, BACB30LR*, BACB30NN*, BACB30XM*, NAS7600 THRU NAS7616
21		100° HEAD WITH RIBBED CRUCIFORM RECESS NAS7303 THRU NAS7316, NAS7600 THRU NAS7616, NAS8702 THRU NAS8716
22		100° HEAD WITH OFFSET CRUCIFORM RECESS NAS1161 THRU NAS1168, NAS1221, NAS1580, LD111-0044 THRU LD111-0046
23		100° HEAD WITH TRI-SLOT RECESS NAS4500 THRU NAS4516

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Dwg #	Drawing	Basic Configuration and Part Series
24		100° HEAD WITH TORX PLUS® RECESS BACB31G*, BACB31V*, BACB31U*
25		PAN HEAD WITH RIBBED CRUCIFORM RECESS NAS7800 THRU NAS7806
26		BOLT, SLEEVED, TAPER SHANK, 100° DOME HEAD BACB31AE, BACB31AG
27		100° HEAD WITH SIX LOBE RECESS 3M1169*, 3M1170*, 3M1262*, 3M1275*, 3M1276*, 3M1277*, 3M1278*, 3M1314*, NAS5319, NAS5320
28		100° HEAD WITH THREAD END HEX DRIVE ST3M758*, 3M923*
29		SPECIAL HEAD CONFIGURATION 5010539
30		WASHER, SELF-ALIGNING, CONVEX & CONCAVE BACW10EK**
31		100° SEALING HEAD WITH DOVETAIL RECESS 3M902*, ST3M430*, ST3M652*, ST3M653*
32		100° HEAD WITH DOVETAIL RECESS AND THREAD END HEX DRIVE ST3M495*, ST3M496*, ST3M505*, ST3M506*
33		100° C'SUNK HEAD WITH THREAD END HEX DRIVE ST3M757* (INJECTION PORT), 3M757* (INJECTION PORT)

* PENDING QUALIFICATION - ACCEPTING ORDERS NOW.

** QUALIFICATION PASSED - AWAITING REVISION OF PART STANDARD.

TORX PLUS® IS A REGISTERED TRADEMARK OF CAMCAR INNOVATIONS™

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Part Series	Basic Configuration	Material	Dwg #
07-9150-02	SPLINE DRIVE TENSION HEAD	NICKEL ALLOY 718	7
07-9184-01	MACHINE BOLT TAPERED HEAD WITH HEX RECESS	ALLOY STEEL	15
34000D1572253	12-PT TENSION HEAD	NICKEL ALLOY 718	1
107083	HEX HEAD	ALLOY STEEL	9
375807	12-PT TENSION HEAD REDUCED SHANK	NICKEL ALLOY 718	3
3D0013	SPLINE DRIVE TENSION HEAD	NICKEL ALLOY 718	7
3D0028	SPLINE DRIVE TENSION HEAD	NICKEL ALLOY 718	7
3D0029	SPLINE DRIVE SHEAR HEAD	NICKEL ALLOY 718	8
3D0031	12-PT TENSION HEAD	NICKEL ALLOY 718	1
3D0073	SPLINE DRIVE TENSION HEAD	NICKEL ALLOY 718	7
3D0075	HEX HEAD	A286	9
3D0108	SPLINE DRIVE TENSION HEAD	NICKEL ALLOY 718	7
3D0124	SHOULDER BOLT	A286	11
3D0146	SPLINE DRIVE SHEAR HEAD	COBALT NICKEL ALLOY MP159	8
3D0166	SPLINE DRIVE TENSION HEAD	COBALT NICKEL ALLOY MP159	7
3M263*	100° HEAD WITH DOVETAIL RECESS	H-11	19
3M486*	100° HEAD WITH TAPER SHANK AND INJECTION PORT	ALLOY STEEL / PH13-8Mo	18
3M757*	100° HEAD WITH HEX DRIVE AND INJECTION PORT	PH13-8Mo	33
3M881*	HEX HEAD WITH CAPTIVE WASHER	Ti 6Al-4V	10
3M902*	100° SEALING HEAD WITH DOVETAIL RECESS	PH13-8Mo	31
3M923*	100° HEAD WITH HEX POINT DRIVE RECESS	PH13-8Mo	28
3M943*	HEX HEAD WITH STUD	300 SERIES CRES / Ti 6Al-4V / PH13-8Mo	16
3M958*	100° HEAD WITH DOVETAIL RECESS	PH13-8Mo	19
3M1031*	HEX HEAD	300 SERIES STAINLESS STEEL	9
3M1169*	100° HEAD WITH SIX LOBE RECESS	NICKEL ALLOY 718 / Ti 6Al-4V	27
3M1170*	100° HEAD WITH SIX LOBE RECESS	NICKEL ALLOY 718 / Ti 6Al-4V	27
3M1262*	100° HEAD WITH SIX LOBE RECESS	NICKEL ALLOY 718	27
3M1263*	SPLINE DRIVE TENSION HEAD	COBALT NICKEL ALLOY MP35N	7
3M1273*	PAN HEAD WITH SIX LOBE RECESS	Ti 6Al-4V	14
3M1275*	100° HEAD WITH SIX LOBE RECESS	NICKEL ALLOY 718	27
3M1276*	100° HEAD WITH SIX LOBE RECESS	NICKEL ALLOY 718	27
3M1277*	100° HEAD WITH SIX LOBE RECESS	NICKEL ALLOY 718	27
3M1278*	100° HEAD WITH SIX LOBE RECESS	NICKEL ALLOY 718	27
3M1314*	100° HEAD WITH SIX LOBE RECESS	Ti 6Al-4V	27
3M1315*	HEX HEAD WITH STUD	COBALT NICKEL ALLOY MP35N	16
3M1343*	PAN HEAD WITH SIX LOBE RECESS	NICKEL ALLOY 718	14
5010539	SPECIAL HEAD CONFIGURATION	ALLOY STEEL	29
69-63788	HEX HEAD	A286	9
A-3203	HEX HEAD	ALLOY STEEL	9
B-3347	12-PT TENSION HEAD	ALLOY STEEL	1
B-7435	12-PT MODIFIED HEAD	ALLOY STEEL	4
BACB30LE	12-PT TENSION HEAD	A286	1
BACB30LH*	100° HEAD WITH CRUCIFORM RECESS	A286	20
BACB30LJ	HEX HEAD	A286	9

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Part Series	Basic Configuration	Material	Dwg #
BACB30LL*	100° HEAD WITH DOVETAIL RECESS	A286	19
BACB30LM	HEX HEAD	A286	9
BACB30LP*	100° HEAD WITH DOVETAIL RECESS	A286	19
BACB30LR*	100° HEAD WITH CRUCIFORM RECESS	A286 (2 - 10) / NICKEL ALLOY 718 (12 - 16)	20
BACB30LT	12-PT SHEAR HEAD	A286	6
BACB30MN**	100° HEAD WITH DOVETAIL RECESS	A286	19
BACB30MR**	12-PT TENSION HEAD	Ti 6Al-4V	1
BACB30MS*	100° HEAD WITH DOVETAIL RECESS	Ti 6Al-4V	19
BACB30NM	HEX HEAD	Ti 6Al-4V	9
BACB30NN*	100° HEAD WITH CRUCIFORM RECESS	Ti 6Al-4V	20
BACB30NR	HEX HEAD	Ti 6Al-4V	9
BACB30NU*	100° HEAD WITH DOVETAIL RECESS	Ti 6Al-4V	19
BACB30PF*	SHOULDER BOLT	ALLOY STEEL	11
BACB30PN	12-PT TENSION HEAD	NICKEL ALLOY 718	1
BACB30PU*	SHOULDER BOLT	A286	11
BACB30PW**	SHOULDER BOLT	A286	11
BACB30ST	HEX HEAD SELF-RETAINING	ALLOY STEEL	13
BACB30US	12-PT TENSION HEAD	NICKEL ALLOY 718	1
BACB30UU	12-PT SHEAR HEAD	NICKEL ALLOY 718	6
BACB30UW	100° HEAD WITH DOVETAIL RECESS	NICKEL ALLOY 718	19
BACB30WP*	100° HEAD WITH DOVETAIL RECESS	NICKEL ALLOY 718	19
BACB30XJ*	HEX HEAD	Ti 6Al-4V	9
BACB30XK*	100° HEAD WITH DOVETAIL RECESS	Ti 6Al-4V	19
BACB30XL*	12-PT TENSION HEAD	Ti 6Al-4V	1
BACB30XM*	100° HEAD WITH CRUCIFORM RECESS	Ti 6Al-4V	20
BACB30XN*	HEX HEAD	Ti 6Al-4V	9
BACB31AD	BOLT, SLEEVED, TAPER SHANK, 12-PT	NICKEL ALLOY 718	5
BACB31AE	BOLT, SLEEVED, TAPER SHANK, 100° DOME HEAD	NICKEL ALLOY 718	26
BACB31AF	BOLT, SLEEVED, TAPER SHANK, 12-PT	Ti 6Al-4V	5
BACB31AG	BOLT, SLEEVED, TAPER SHANK, 100° DOME HEAD	Ti 6Al-4V	26
BACB31G*	100° HEAD WITH TORX PLUS® RECESS	NICKEL ALLOY 718	24
BACB31U*	100° HEAD WITH TORX PLUS® RECESS	Ti 6Al-4V	24
BACB31V*	100° HEAD WITH TORX PLUS® RECESS	A286	24
BACW10EK**	WASHER, SELF-ALIGNING, CONVEX & CONCAVE	NICKEL ALLOY 718	30
LD111-0020 THRU LD111-0025	12-PT TENSION HEAD	PH13-8Mo	1
LD111-0044 THRU LD111-0046	100° HEAD WITH OFFSET CRUCIFORM RECESS	PH13-8Mo	22
MS14181	SPLINE DRIVE TENSION HEAD	NICKEL ALLOY 718	7
MS14490	SPLINE DRIVE TENSION HEAD	ALLOY STEEL	7
MS20004 THRU MS20024	MACHINE BOLT TAPERED HEAD WITH HEX RECESS	ALLOY STEEL	15
MS21134	SPLINE DRIVE TENSION HEAD	ALLOY STEEL	7
MS21250	12-PT TENSION HEAD	ALLOY STEEL	1
MS21287	12-PT TENSION HEAD	A286	1
MS21296	SPLINE DRIVE TENSION HEAD	H-11	7
MS21297	SPLINE DRIVE TENSION HEAD	H-11	7

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Part Series	Basic Configuration	Material	Dwg #
MS27576	HEX HEAD SELF-RETAINING BOLT IMPEDANCE TYPE	ALLOY STEEL / 17-4 PH / PH13-8Mo	12
MS9715	12-PT TENSION HEAD	WASPALOY	2
NAS1161 THRU NAS1168	100° HEAD WITH OFFSET CRUCIFORM RECESS	ALLOY STEEL / Ti 6Al-4V / A286	22
NAS1221	100° HEAD WITH DOVETAIL RECESS	ALLOY STEEL / Ti 6Al-4V / A286	19
NAS1221	100° HEAD WITH OFFSET CRUCIFORM RECESS	ALLOY STEEL / Ti 6Al-4V / A286	22
NAS1223 THRU NAS1235	HEX HEAD	ALLOY STEEL / A286	9
NAS1303 THRU NAS1320	HEX HEAD	ALLOY STEEL	9
NAS1580	100° HEAD WITH DOVETAIL RECESS	ALLOY STEEL / Ti 6Al-4V / A286	19
NAS1580	100° HEAD WITH OFFSET CRUCIFORM RECESS	ALLOY STEEL / Ti 6Al-4V / A286	22
NAS1725	100° HEAD WITH TAPER SHANK	ALLOY STEEL / Ti 6Al-4V / H-11/A286	17
NAS1953 THRU NAS1970	HEX HEAD	ALLOY STEEL / Ti 6Al-4V / A286	9
NAS4500 THRU NAS4516	100° HEAD WITH TRI-SLOT RECESS	A286	23
NAS5318	PAN HEAD WITH SIX LOBE RECESS	Ti 6Al-4V / A286	14
NAS5319	100° HEAD WITH SIX LOBE RECESS	Ti 6Al-4V / A286	27
NAS5320	100° HEAD WITH SIX LOBE RECESS	Ti 6Al-4V / A286	27
NAS6203 THRU NAS6220	HEX HEAD	ALLOY STEEL	9
NAS624 THRU NAS644	12-PT TENSION HEAD	ALLOY STEEL	1
NAS6303 THRU NAS6320	HEX HEAD	A286	9
NAS6403 THRU NAS6420	HEX HEAD	Ti 6Al-4V	9
NAS653 THRU NAS658	HEX HEAD	Ti 6Al-4V	9
NAS6603 THRU NAS6620	HEX HEAD	ALLOY STEEL	9
NAS663 THRU NAS668	100° HEAD WITH DOVETAIL RECESS	Ti 6Al-4V	19
NAS6703 THRU NAS6720	HEX HEAD	A286	9
NAS673 THRU NAS678	HEX HEAD	Ti 6Al-4V	9
NAS6803 THRU NAS6820	HEX HEAD	Ti 6Al-4V	9
NAS7303 THRU NAS7316	100° HEAD WITH RIBBED CRUCIFORM RECESS	Ti 6Al-4V	21
NAS7600 THRU NAS7616	100° HEAD WITH RIBBED CRUCIFORM RECESS	Ti 6Al-4V	21
NAS7800 THRU NAS7816	PAN HEAD WITH RIBBED CRUCIFORM RECESS	A286	25
NAS8702 THRU NAS8716	100° HEAD WITH RIBBED CRUCIFORM RECESS	A286	21
NAS9703 THRU NAS9724	HEX HEAD	ALLOY STEEL	9
ST3M350*	100° HEAD WITH TAPER SHANK	ALLOY STEEL/Ti 6Al-4V/PH13-8Mo	17
ST3M430*	100° SEALING HEAD WITH DOVETAIL RECESS	Ti 6Al-4V	31
ST3M453*	12-PT SHEAR HEAD	PH13-8Mo	6
ST3M466*	100° HEAD WITH DOVETAIL RECESS	Ti 6Al-4V	19
ST3M494*	HEX HEAD	A286	9
ST3M495*	100° HEAD WITH DOVETAIL RECESS AND THREAD END HEX RECESS	PH13-8Mo	32
ST3M496*	100° HEAD WITH DOVETAIL RECESS AND THREAD END HEX RECESS	PH13-8Mo	32
ST3M497*	12-PT SHEAR HEAD	PH13-8Mo	6
ST3M505*	100° HEAD WITH DOVETAIL RECESS AND THREAD END HEX RECESS	PH13-8Mo	32
ST3M506*	100° HEAD WITH DOVETAIL RECESS AND THREAD END HEX RECESS	PH13-8Mo	32
ST3M507*	12-PT SHEAR HEAD	PH13-8Mo	6
ST3M571*	12-PT TENSION HEAD	PH13-8Mo	1

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Part Series	Basic Configuration	Material	Dwg #
ST3M607*	12-PT TENSION HEAD	PH13-8Mo	1
ST3M652*	100° SEALING HEAD WITH DOVETAIL RECESS	PH13-8Mo	31
ST3M653*	100° SEALING HEAD WITH DOVETAIL RECESS	PH13-8Mo	31
ST3M744*	SPLINE DRIVE SHEAR HEAD	PH13-8Mo	8
ST3M747*	SPLINE DRIVE SHEAR HEAD	NICKEL ALLOY 718 /PH13-8Mo	8
ST3M753*	SPLINE DRIVE TENSION HEAD	PH13-8Mo	7
ST3M757*	100° HEAD WITH HEX DRIVE AND INJECTION PORT	PH13-8Mo	33
ST3M758*	100° HEAD WITH HEX POINT DRIVE RECESS	Ti 6Al-4V / PH13-8Mo	28
ST3M834*	SHOULDER BOLT	PH13-8Mo	11
ST3M837*	SPLINE DRIVE SHEAR HEAD	PH13-8Mo	8
ST3M838*	SPLINE DRIVE SHEAR HEAD	PH13-8Mo	8

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