



Standard Parts

Number:	B-030
Date Issued:	A-FEB06

ELECTRONIC DOCUMENT IN THE VIEWER IS CONTROLLED. PRINTED COPY IS AN UNCONTROLLED DOCUMENT.

PLOW BOLTS (Superseded)

This standard has been superseded by CNH Standard Parts, STPB270 (87366886), Countersunk Plow Bolts - Inch Coarse Thread - Non-Preferred.

The controlled versions of CNH specifications and standards are published on the CNH Intranet site.

The documents are also available on the CNH electronic viewing system (e.g. eViewer). Suppliers are able to access these documents on CSCN (CNH Supplier Communications Network).

The superseded standard remains available for viewing following this page if needed.

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GENERAL SPECIFICATIONS

GENERAL: This specification conforms with American National Standard ANSI B18.9 for flat head No. 3 and No. 4 plow bolts. Optional dome head No. 3 plow bolt is included to enable the use of commercially available bolts.

PREFERRED PARTS POLICY: Preferred parts are so designated to reduce variety of parts and assure maximum availability, interchangeability and cost savings in volume buying.

Material:	Grade 8	
Finish:	Zinc with Chromate (ZND)	
Nominal Sizes:	5/16, 3/8, 7/16, 1/2 and 5/8	
Lengths:	All diameters	1/4 inch increments through 4 inches
	5/16 diameters	1/2 inch increments - 4 through 7 inches 1 inch increments - over 7 inches
	3/8 thru 1 diameters	1/2 inch increments - 4 through 9 inches 1 inch increments - over 9 inches

SERVICE PARTS SUBSTITUTION POLICY: In the event that Engineering does not indicate "Do Not Substitute" in Engineering Specifications, the following substitutions may be implemented in service:

To be Replaced	Service Replacement	
	Grade 2 ZND	Grade 8 ZND
Grade 2 material with Plain (PLN) finish	X	X
Grade 2 material with Zinc (ZND) finish		X
Grade 5 material with Plain (PLN) finish		X
Grade 5 material with Zinc (ZND) finish		X
Grade 8 material with Plain (PLN) finish		X

DIMENSIONS: All dimensions in this Standard are in inches. All unspecified detail shall conform to ANSI B18.9.

THREADS: Threads shall be Unified Coarse (UNC), class 2A.

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LENGTH OF THREAD: The length of thread shall be measured, parallel to the axis of bolt, from the end of bolt to the last complete (full form) thread.

Minimum Thread Lengths of Plow Bolts
(2D + 1/4)

Recom- mended Bolt Lenth, L	Bolt Diameter								
	5/16	3/8	7/16	1/2	9/16*	5/8	3/4	7/8	1
3/4	T to H	T to H	T to H	T to H	T to H	T to H	T to H	T to H	T to H
1	T to H	T to H	T to H	T to H	T to H	T to H	T to H	T to H	T to H
1 1/4	7/8	T to H	T to H	T to H	T to H	T to H	T to H	T to H	T to H
1 1/2	7/8	1	T to H	T to H	T to H	T to H	T to H	T to H	T to H
1 3/4	7/8	1	1 1/8	1 1/4	T to H	T to H	T to H	T to H	T to H
2	7/8	1	1 1/8	1 1/4	1 3/8	T to H	T to H	T to H	T to H
2 1/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	T to H	T to H	T to H
2 1/2	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	T to H	T to H
2 3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2	T to H
3 to 6	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2	2 1/4
Tolerance	+9/64	+5/32	+11/64	+3/16	+13/64	+15/64	+1/4	+9/32	+5/16

MATERIAL AND PHYSICAL PROPERTIES: Case Grade 2, 5 and 8 in accordance with Case Materials Specifications ES-B7002, ES-B7005 and ES-B7008 as specified on parts listing.

FINISHES: Bolts shall be furnished plain (PLN), plated or coated in accordance with Case Materials Specification:

Phosphate Coating (PHC) - MS 91
Zinc with Chromate (ZND) - MS 201
Cadmium (CAD) - MS 206 * Do not use for new design. See A-011.

WORKMANSHIP: Bolts and screws shall be free from burrs, seams, laps, loose scale, irregular surfaces and any defects affecting their serviceability.

NOTE: To avoid hydrogen embrittlement, all SAE grade 8 zinc plated fasteners must be baked immediately after plating per Material Specification MS 201.

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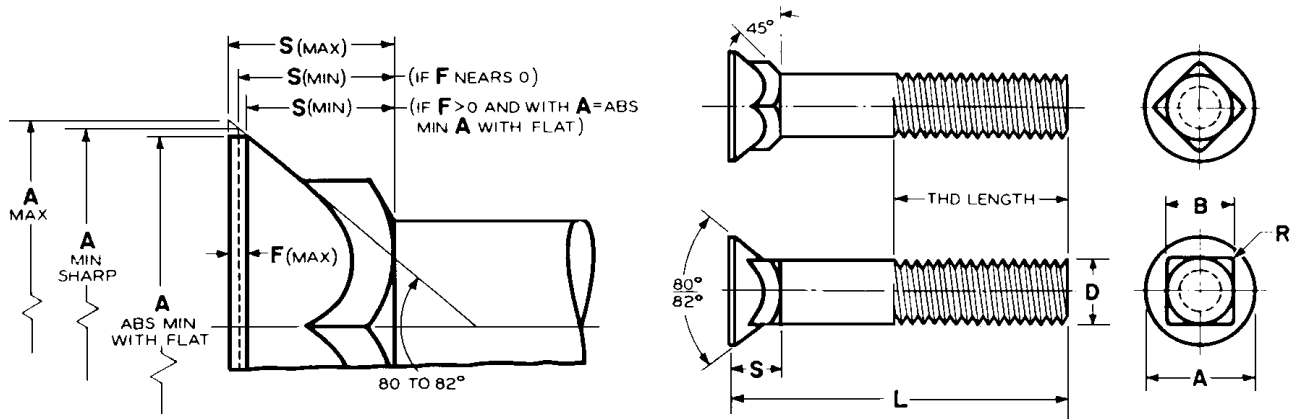
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See Page 4 for Optional Dome Head Styles.
No. 3 Head Regular

D	A			F	S		B		R
Nominal Diameter of Bolt	Diameter of Head			Feed Thickness	Depth of Square and Head		Width of Square		Radius on Corners of Square
	max.	min. sharp	Abs. min. w/flat		max.	min.	max.	min. (Basic)	
5/16	0.605	0.578	0.563	0.025	0.269	0.243	0.325	0.313	1/32
3/8	0.708	0.671	0.656	0.031	0.312	0.281	0.387	0.375	3/64
7/16	0.826	0.781	0.766	0.036	0.364	0.328	0.450	0.438	3/64
1/2	0.945	0.890	0.875	0.042	0.417	0.375	0.515	0.500	3/64
5/8	1.147	1.094	1.063	0.050	0.506	0.456	0.640	0.625	5/64
3/4	1.303	1.250	1.219	0.050	0.541	0.491	0.765	0.750	5/64
7/8	1.512	1.469	1.406	0.063	0.626	0.563	0.906	0.875	3/32
1	1.700	1.656	1.594	0.063	0.690	0.627	1.031	1.000	3/32
* Repair									
5/16	0.556	0.531	0.516	0.020	0.232	0.212	0.325	0.313	1/32
3/8	0.659	0.624	0.609	0.025	0.272	0.247	0.387	0.375	3/64
7/16	0.779	0.734	0.719	0.030	0.324	0.294	0.450	0.438	3/64
1/2	0.898	0.843	0.828	0.035	0.375	0.340	0.515	0.500	3/64
5/8	1.096	1.047	1.016	0.040	0.458	0.418	0.640	0.625	5/64
3/4	1.252	1.203	1.172	0.040	0.493	0.453	0.765	0.750	5/64
7/8	1.465	1.422	1.359	0.050	0.573	0.523	0.906	0.875	3/32
1	1.653	1.609	1.547	0.050	0.637	0.587	1.031	1.000	3/32

* The letter "R" shall be shown on top of the repair head, to distinguish it from the regular head bolt.

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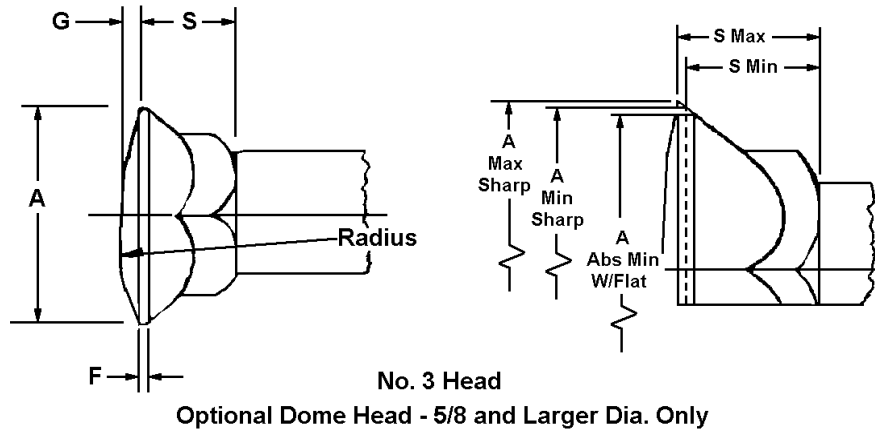
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All unspecified detail shall conform to flat head No. 3 plow bolts.

Nominal Bolt Diameter	A			F		G		S	
	Diameter of Head			Feed Thickness		Dome Height		Depth of Square and Head	
	Max Sharp	Min Sharp	Abs. Min W/Flat	Max	Min	Max	Min	Max	Min
5/8	1.197	1.044	1.013	.120	.050	.100	.070	.516	.466
3/4	1.353	1.200	1.169	.160	.090	.110	.080	.581	.541
7/8	1.571	1.409	1.369	.170	.100	.110	.080	.663	.613
1	1.759	1.597	1.557	.170	.100	.120	.090	.737	.677

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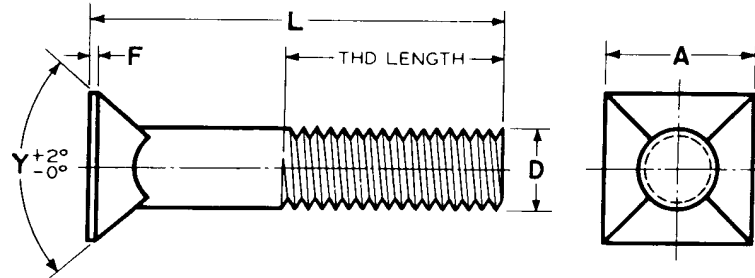


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No. 4 Head

D	A			F	Y
Nominal Diameter of Bolt	Diameter of Head			Feed Thickness	Inc. Angle (Deg.)
	Minimum (Basic)		Max.	Max.	
5/16	9/16	0.563	0.578	0.025	80
3/8	11/16	0.688	0.703	0.031	80
7/16	3/4	0.750	0.765	0.036	80
1/2	13/16	0.813	0.828	0.042	80
5/8	1	1.000	1.031	0.050	80
3/4	1-1/8	1.125	1.156	0.050	80
7/8	1-5/16	1.313	1.344	0.050	80
1	1-1/2	1.500	1.531	0.050	80

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