



Preferred Parts

Number:	C-065
Date Issued:	A-OCT06

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

FLANGED 12-POINT SCREWS (SUPERSEDED)

This standard has been superseded by CNH Standard Parts, STPC130 (87366934), Flanged 12 Point Screws Inch.

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The superseded standard remains available for viewing following this page if needed.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 specifications conforms essentially with the Society of Automotive Engineers SAE J58 standard for flanged 12-point screws, with the notable exception of material grade and hardness.

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

- Material: Alloy Steel (AST)
- Finishes: Plain (PLN)
Phosphate Coating (PHC)
- Thread: Coarse
- Diameters: 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/2
- Length: All Diameters - 1/4 inch increments thru 4 inches.
 - 1/4 and 5/16 dia. - 1/2 inch increments - 4 thru 7 inches
 - 1 inch increments - over 7 inches
 - 3/8 thru 1-1/2 dia. - 1/2 inch increments - 4 thru 9 inches
 - 1 inch increments - over 9 inches

All preferred lengths beyond the 7 and 9 inch ranges indicated above will be carried in the non-preferred section because of limited usage.

SERVICE PARTS SUBSTITUTION POLICY: In the event that engineering does not indicate a "Do not substitute" in engineering specifications, the following substitutions may be implemented in service:

<u>To Be Replaced</u>	<u>Service Replacement</u>
Plain Finish (PLN)	Phosphate Coated Finish (PHC)

DIMENSIONS: All dimensions in this Standard are in inches. All unspecified detail shall conform to SAE J58.

THREAD: Threads shall be in accordance with the American National Standards, Unified Inch Screw Thread ANSI B1.1. Threads For Alloy Steel designated screws shall be unified external threads with radius root, Class 3A UNRC or UNRF series. Grade 8 or modified Grade 8 screws shall preferably be unified external threads with radius root, Class 2A or 3A UNRC or UNRF series, or at manufacturer's option maybe UNC or UNF series, Class 2A or 3A. Class 3A does not provide a plating allowance. When plated products are required, it is recommended that they be procured from the manufacturer.

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MATERIALS:

Alloy Steel (AST) - Flanged 12-point screws shall be fabricated from alloy steel having alloying elements in sufficient quantity to assure that the hardness range of Rockwell C37-43 will develop a tensile strength of 170,000 PSI and a yield point of 140,000 minimum.

Grade 8 ES-B7008 - Case Grade 8 in accordance with Case Engineering Specification ES-B7008.

FINISH: Screws shall be furnished plain, plated, or coated in accordance with Case Engineering Materials Specifications:

- Plain and Oiled (PLN)
- Phosphate Coating (PHC) MS 91
- Zinc with Chromate (ZND) MS 201
- Cadmium (CAD) MS 206

WORKMANSHIP: 12-point screws shall be free from burrs, seam laps, loose scale, irregular surfaces, and any defects affecting their serviceability.

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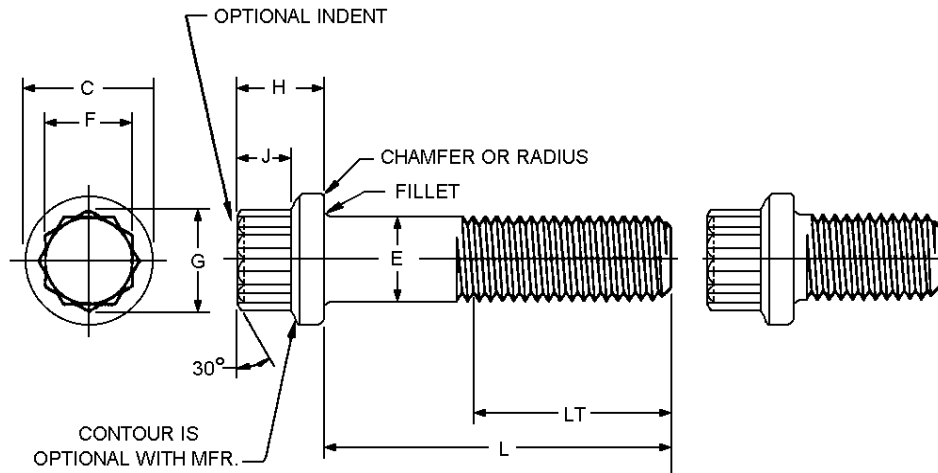


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Dimensions are in inches. Dimensions are for reference only. Screws are to conform to SAE J58.

Nominal Size or Basic Major Diameter of Thread	E		C		F		G	H	J	LT
	Body Dia. Min. (Max. Equal to Nom Size)		Flange Diameter		Width Across Flats		Width Across Corners	Head Height	Wrenching Height	Thread Length
			Max.	Min.	Max.	Min.	Min.	Max.	Min.	Basic
1/4	0.250	0.243	0.375	0.365	0.252	0.244	0.278	0.260	0.15	1.000
5/16	0.312	0.305	0.469	0.457	0.315	0.306	0.348	0.312	0.18	1.125
3/8	0.375	0.368	0.562	0.550	0.377	0.368	0.420	0.375	0.21	1.250
* 7/16	0.438	0.429	0.656	0.642	0.438	0.429	0.489	0.438	0.26	1.375
1/2	0.500	0.492	0.750	0.735	0.502	0.493	0.562	0.500	0.29	1.500
* 9/16	0.562	0.554	0.844	0.828	0.564	0.555	0.633	0.563	0.33	1.625
5/8	0.625	0.616	0.938	0.921	0.627	0.618	0.705	0.625	0.36	1.750
3/4	0.750	0.741	1.125	1.107	0.752	0.743	0.847	0.750	0.44	2.000
* 7/8	0.875	0.865	1.312	1.293	0.877	0.866	0.987	0.875	0.51	2.250
1	1.000	0.989	1.500	1.479	1.003	0.991	1.130	1.000	0.60	2.500
* 1-1/8	1.125	1.109	1.688	1.665	1.128	1.115	1.271	1.125	0.66	2.750
1-1/4	1.250	1.234	1.875	1.852	1.253	1.240	1.414	1.250	0.73	3.000
* 1-3/8	1.375	1.357	2.062	2.038	1.378	1.365	1.556	1.375	0.80	3.250
1-1/2	1.500	1.482	2.250	2.224	1.503	1.489	1.697	1.500	0.87	3.500

* NON-PREFERRED

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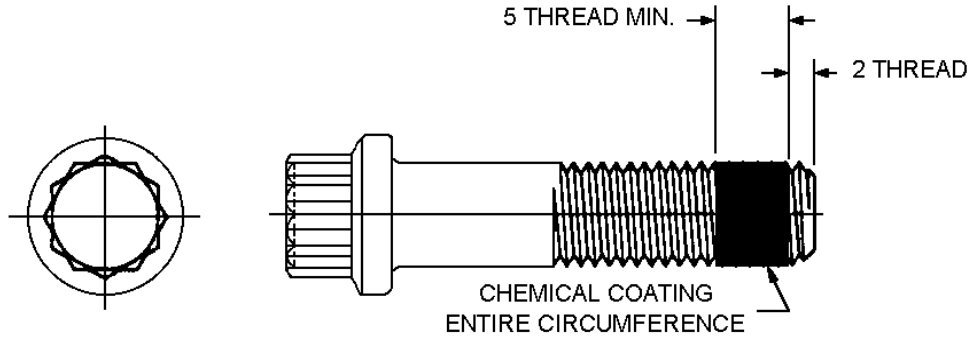


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LOCKING TYPE FEATURE: When locking feature is specified, the location and size of the chemical coating must comply with the illustration shown above. Screws shall assemble a minimum of one full turn by hand into any mating internally threaded component that is accepted by a properly selected GO thread plug gage.

The locking type feature shall be free from visible porosity, voids and cracks, and shall be uniform in color without streaks, dark areas, or other indicators of contamination or degradation. It shall be firmly attached to the screw and shall not loosen under normal handling. It shall be chemically inert to the following fluid:

<u>FLUID</u>	<u>CASE MATERIAL SPEC</u>
Diesel Engine Lubrication Oil Multi-Viscosity	MS 1120-1
Combination Hydraulic, Transmission Wet Brake Fluid	MS 1207
Transmission, Converter and Hydraulic Fluid (TCH)	MS 1210
Gear Oil, SAE 85W-140, EP	MS 1316
Anti-Freeze, Single Phase, Ethylene Glycol Base, Low Silicate	MS 1710

SOURCE APPROVAL: Source approval by Material Engineering is required for this coating.

Approved Coating: 3M Blue Scotch Grip #2353

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