



Product Engineering

SPECIFICATION CORROSION PROTECTION FOR STANDARD INCH AND METRIC FASTENERS AND HARDWARE

(Printed Copies are Uncontrolled)

Material Standard

MS300

Date: 2024-07-15
Writer: Ryan Schuler
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RATIONALE:

ORIGINAL

07/29/2024

- Updated hyperlinks to standards
- Addition of standard 74CM and 72DM

1. Purpose

To specify the corrosion protection treatment for standard inch and metric fasteners and hardware used on Bobcat Company products.

2. Scope

To restrict standard parts to the use of only one protective treatment specification for a given part number.

- Specifications for plated finishes: Protective treatment of standard parts shall be in accordance with the specifications listed in the [Protective Treatment Index](#) of the Bobcat Product Engineering Standards.
- Specifications for common parts: Refer to Standard [DE-Q](#) for other approved protective treatments and special protection procedures.

3. Part Numbers

The following lists contain all active standard part number prefixes listed in the [Inch](#) and [Metric](#) Standards of the Bobcat Product Engineering Standards.

4. Plating Change

When a part listed in this standard requires a protective treatment specification change, this standard will be modified by Engineering Data Control (EDC) only after a complete review of where the part(s) are used. In many cases, an Engineering Change Notice (ECN) may be required to correct documentation. Typical changes of this type occur when the industry standard protective treatment for a particular part is changed and purchase of the specified protective treatment is not economical.

When a special protective treatment (or no protective treatment) is required for a specific type of fastener or hardware, the part becomes unique and must be documented using a seven-digit Bobcat production part number. In most cases, the drawing for these parts may specify the standard part as material and list the differences (i.e., part supplied non-plated.)

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**PS-106A PLATED PARTS PREFERRED OR PS-Y IF REQUIRED (SIZE
DEPENDENT)**

PS-106A is not intended for use with parts that are small and light weight such as certain washers, spacers, and shims with 3/8 inch or M10 inside diameter and less. For snap rings the minimum size shall be 1 inch or M25. When used on threaded fasteners and pins, all parts 1/4 inch or M6 and smaller should be PS-Y. Above this size should be PS-106A.

Note: The standard document for some of the parts listed below may be stamped as "Restricted" or "Inactive for New Design." Always review the actual standard prior to use.

1C	1CM	45CM	3D	81D	1DM	4E	1F	9G	1GM	1J
2C	2CM	46CM	4D	82D	2DM	25E	2F	10G	2GM	2J
8C	3CM	47CM	7D	83D	4DM	28E		13G	4GM	15J
9C	4CM	48CM	8D	84D	5DM			15G	5GM	16J
10C	5CM	49CM	11D	85D	6DM	1EM		16G	7GM	17J
17C	6CM	50CM	13D	86D	16DM	15EM		17G	10GM	18J
18C	7CM	51CM	25D	87D	26DM	17EM		19G	11GM	19J
25C	8CM	52CM	46D	88D	39DM	19EM		25G	16GM	20J
26C	9CM	53CM	47D	89D	43DM			61G	18GM	
31C	10CM	55CM	48D	90D	45DM			62G	20GM	13JM
33C	11CM	56CM	49D	93D	47DM			69G	22GM	
34C	12CM	59CM	52D	94D	49DM			70G	23GM	
35C	21CM	60CM	53D	95D	51DM			73G	24GM	
37C	23CM	61CM	55D	96D	53DM			74G	27GM	
38C	26CM	62CM	57D	97D	54DM			83G	29GM	
39C	28CM	63CM	58D	98D	72DM			89G	30GM	
41C	29CM	64CM	59D	99D				90G	31GM	
43C	30CM	65CM	60D					93G	32GM	
44C	31CM	66CM	61D					94G	33GM	
45C	32CM	67CM	62D					95G	34GM	
47C	33CM	68CM	63D					96G	35GM	
48C	34CM	69CM	64D					97G	36GM	
49C	35CM	70CM	66D						37GM	
53C	36CM	71CM	80D						38GM	
54C	37CM	72CM								
	39CM	89CM							25GT	
	40CM	90CM							93GT	
	41CM	91CM							94GT	
	42CM	92CM								
	43CM	93CM								
	44CM	94CM								

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PS-Y COATED PARTS (ALL SIZES)

Note: The standard document for some of the parts listed below may be stamped as "Restricted" or "Inactive for New Design." Always review the actual standard prior to use.

6C	9D	17E	6EM	10F	53F	32G	4H	15HB	5K	46K	10L
	10D	24E	8EM	11F	54F	45G	10H	17HB	6K	47K	
	12D	41E	10EM	12F	56F	49G	11H	18HB	7K	51K	
	14D	42E	11EM	13F	57F	57G	12H		8K	52K	1LM
	50D	43E		14F	58F	58G	14H		9K	53K	2LM
	51D	44E		15F	59F	59G	15H	1HM	10K	61K	3LM
		45E		16F	60F	65G	16H	2HM	11K	62K	
		46E		17F	61F	75G	26H	3HM	12K	63K	
		50E		18F	62F	76G	36H		13K	64K	1NM
		51E		19F	63F	77G	37H		14K	65K	
		52E		20F	64F	78G	38H		22K	66K	
		53E		21F	66F	79G	39H		23K	67K	
		54E		22F	67F	80G	40H		24K	68K	
		55E		23F	68F	81G	45H		26K	69K	
		56E		24F	69F	82G			27K	70K	
		57E		25F	70F	85G			28K	71K	
		58E		26F	71F	87G			29K	72K	
		59E		27F	72F	88G			30K	74K	
		60E		28F	73F	91G			31K	83K	
		61E		29F	74F	92G			32K	84K	
		62E		30F	75F				33K	85K	
		63E		31F	76F				34K	86K	
		65E		32F	77F	57GM			35K	87K	
		66E		33F	79F	58GM			36K	88K	
		67E		34F	80F				37K	89K	
		69E		35F	81F				40K	90K	
		70E		36F	82F				41K	91K	
		71E		37F	83F				42K	92K	
		72E		38F	84F				43K		
		73E		39F	85F				44K		
		74E		40F	86F				45K	15KB	
		75E		41F	87F					16KB	
		76E		42F	88F					17KB	
		77E		43F	89F					18KB	
		78E		44F	90F					19KB	
		79E		45F	91F					21KB	
		80E		46F	92F						
		81E		47F	93F						
		50E-81E		48F	97F						
				49F	98F						
				50F	99F						
				51F	77F-A						
				52F	77F-H						

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**PS-106A PLATED PARTS PREFERRED OR PS-Y MECHANICAL IF REQUIRED
(SIZE DEPENDENT)**

PS-106A is not intended for use with parts that are small and light weight such as certain washers, spacers, and shims with 3/8 inch or M10 inside diameter and less. For snap rings the minimum size shall be 1 inch or M25. When used on threaded fasteners and pins, all parts 1/4 inch or M6 and smaller should be PS-Y Mechanical. Above this size should be PS-106A.

Note: The standard document for some of the parts listed below may be stamped as "Restricted" or "Inactive for New Design." Always review the actual standard prior to use.

27CM	29E	18EM	4F	84G	3GM	17GM	9J	5JM
38CM					6GM	19GM	14J	6JM
73CM					9GM	21GM	21J	8JM
74CM					12GM	26GM	22J	9JM
					15GM	28GM	23J	14JM

PS-Y MECHANICAL PLATED PARTS (ALL SIZES)

Note: The standard document for some of the parts listed below may be stamped as "Restricted" or "Inactive for New Design." Always review the actual standard prior to use.

27C	4E	21G
28C	6E	22G
51C	12E	23G
52C		24G

PS-H PLATED PARTS (ALL SIZES)

Note: The standard document for some of the parts listed below may be stamped as "Restricted" or "Inactive for New Design." Always review the actual standard prior to use.

29G	33G	37G	39G
30G	34G	38G	40G

HOT-DIP GALVANIZED ZINC, G90 PER ASTM A123/A123M COATED PARTS (ALL SIZES)

Note: The standard document for some of the parts listed below may be stamped as "Restricted" or "Inactive for New Design." Always review the actual standard prior to use.

6H	30H	30HJ	31H
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DRY FURNISHED PARTS

Note: The standard document for some of the parts listed below may be stamped as "Restricted" or "Inactive for New Design." Always review the actual standard prior to use.

1FM	2FM
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MAGNI 585 ZINC RICH EPOXY MEETS GMW14083

Note: The standard document for some of the parts listed below may be stamped as "Restricted" or "Inactive for New Design." Always review the actual standard prior to use.

5HM	6HM
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NON-PLATED PARTS

This page contains a list of parts that do not require protective treatment. Any parts which do not have protective treatment specified must be oil treated to prevent rust prior to shipping to Bobcat Company unless otherwise specified in the individual standard.

Note: The standard document for some of the parts listed below may be stamped as "Restricted" or "Inactive for New Design." Always review the actual standard prior to use.

15D	3FM	27G	5J	1JM	2KM
72D		28G	6J	2JM	3KM
73D		35G	7J	3JM	
74D		36G	8J	4JM	
75D			10J	7JM	
76D				12JM	
77D				15JM	
78D				16JM	
79D				19JM	
92D				20JM	
				21JM	
13EM				22JM	
				23JM	