

DATE: November 7, 2005

BULLETIN NO. \_\_\_\_\_ WSB0130

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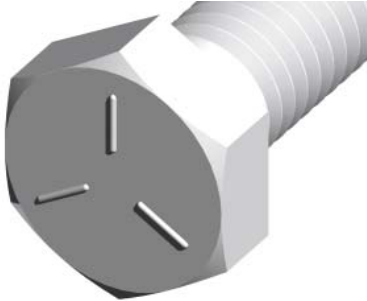
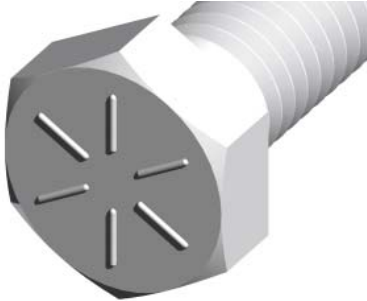
SECTION. \_\_\_\_\_ 1-1 (GENERAL INFORMATION)

MODEL(S): \_\_\_\_\_ All

ATTENTION: WAGNER DEALERS, PARTS AND SERVICE MANAGERS

SUBJECT: CAPSCREW GRADES & TORQUE RATINGS

### CAPSCREW GRADES:

	Grade 5	Grade 8
<b>Bolt Head Markings:</b> Manufacturer's marks may vary. These are all SAE Grade 5 (3-line). 		
<b>Current Usage:</b>	Non-Structural	All Other
<b>Quality of Material:</b>	Minimum Commercial	Best Commercial
<b>Minimum Tensile Strength (psi):</b>	To 1/2" - 120,000 To 1" - 115,000	150,000

1. The torque values listed on page 2 are "general" and only used when there are no specific torque values listed for a specific job.
2. Values listed are for clean and dry threads.
3. Reduce torque value by 10% when oil is used as a lubricant.\*
4. Reduce torque value by 20% if new plated capscrews are used.
5. Reduce torque values by 30% when capscrews are threaded into aluminum.

\* Note: Generally, capscrews used on Wagner units are lubricated.

If you have any questions or concerns, please feel free to contact the Allied Systems Company Service Department at 503-625-2560.

**TORQUE RATINGS:**

Bolt Body Size (Inches) - (Thread)	Torque, Grade 5		Torque, Grade 8	
	Ft-Lb	[kg m]	Ft-Lb	[kg m]
1/4 - 20	8	[1.1064]	12	[1.6596]
1/4 - 28	10	[1.3830]	14	[1.9362]
5/16 - 18	17	[2.3511]	24	[3.3192]
5/16 - 24	19	[2.6277]	27	[3.7341]
3/8 - 16	31	[4.2873]	44	[6.0852]
3/8 - 24	35	[4.8405]	49	[6.7767]
7/16 - 14	49	[6.7767]	70	[9.6810]
7/16 - 20	55	[7.6065]	78	[10.7874]
1/2 - 13	75	[10.3725]	105	[14.5215]
1/2 - 20	85	[11.7555]	120	[16.5960]
9/16 - 12	110	[15.2130]	155	[21.4365]
9-16 - 18	120	[16.5960]	170	[23.5110]
5/8 - 11	150	[20.7450]	210	[29.0430]
5/8 - 18	170	[23.5110]	240	[33.1920]
3/4 - 10	270	[37.3410]	375	[51.8625]
3/4 - 16	295	[40.7985]	420	[58.0860]
7/8 - 9	395	[54.6285]	605	[83.6715]
7/8 - 14	435	[60.1605]	675	[93.3525]
1 - 8	590	[81.5970]	910	[125.8530]
1 - 14	660	[91.2780]	990	[136.9170]

**TORQUE CONVERSIONS:**

