



**BLACK CAT**  
WEAR PARTS



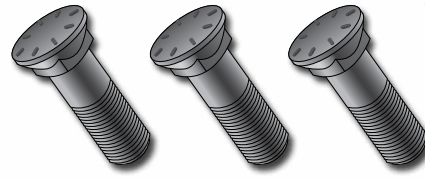
## *Cutting Edge Hardware*



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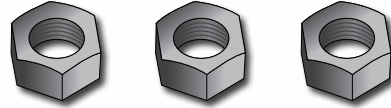
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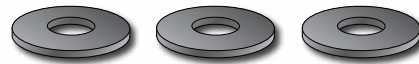
## Plow Bolts

Bolt Diameter	Length	Part Number	Description	Caterpillar® Reference	Thread	Grip Length	Box Quantity	Weight / 100
5/8"	1 1/2"	GR8 5/8X11/2	Grade 8 Plow Bolt	4F3664	11-UNC	0.69	200	16.0 lbs
	1 3/4"	GR8 5/8X13/4	Grade 8 Plow Bolt	4F3653	11-UNC	0.69	200	18.0 lbs
	2"	GR8 5/8X2	Grade 8 Plow Bolt	4F3654	11-UNC	0.69	175	20.0 lbs
	2 1/4"	GR8 5/8X21/4	Grade 8 Plow Bolt	3F5108	11-UNC	1.00	150	21.0 lbs
	2 1/2"	GR8 5/8X21/2	Grade 8 Plow Bolt	4F3656	11-UNC	1.00	125	24.0 lbs
	2 3/4"	GR8 5/8X23/4	Grade 8 Plow Bolt	4F3657	11-UNC	1.25	120	27.0 lbs
	3"	GR8 5/8X3	Grade 8 Plow Bolt	4F3658	11-UNC	1.50	100	29.0 lbs
	3 1/2"	GR8 5/8X31/2	Grade 8 Plow Bolt	4F3665	11-UNC	2.00	85	33.0 lbs
	4"	GR8 5/8X4	Grade 8 Plow Bolt	4F3671	11-UNC	2.50	70	37.0 lbs
	4 1/2"	GR8 5/8X41/2	Grade 8 Plow Bolt		11-UNC	2.50	60	41.0 lbs
	5"	GR8 5/8X5	Grade 8 Plow Bolt		11-UNC	3.00	60	45.0 lbs
3/4"	2"	GR8 3/4X2	Grade 8 Plow Bolt	4F3672	10-UNC	0.81	115	29.0 lbs
	2 1/4"	GR8 3/4X21/4	Grade 8 Plow Bolt	4F7827	10-UNC	0.81	100	32.0 lbs
	2 1/2"	GR8 3/4X21/2	Grade 8 Plow Bolt	5J4773	10-UNC	1.13	90	34.0 lbs
	2 3/4"	GR8 3/4X23/4	Grade 8 Plow Bolt	5J4771	10-UNC	1.25	80	38.0 lbs
	3"	GR8 3/4X3	Grade 8 Plow Bolt	4F0138	10-UNC	1.25	80	41.0 lbs
	3 1/4"	GR8 3/4X31/4	Grade 8 Plow Bolt	1J6762	10-UNC	1.50	70	44.0 lbs
	3 1/2"	GR8 3/4X31/2	Grade 8 Plow Bolt		10-UNC	1.75	70	47.0 lbs
	3 3/4"	GR8 3/4X33/4	Grade 8 Plow Bolt	5F8933	10-UNC	2.00	60	50.0 lbs
	4"	GR8 3/4X4	Grade 8 Plow Bolt		10-UNC	2.25	55	54.0 lbs
	4 1/2"	GR8 3/4X41/2	Grade 8 Plow Bolt	4F0253	10-UNC	2.75	40	60.0 lbs
7/8"	2 1/2"	GR8 7/8X21/2	Grade 8 Plow Bolt	5J4772	9-UNC	1.25	65	48.0 lbs
	2 3/4"	GR8 7/8X23/4	Grade 8 Plow Bolt	6F0196	9-UNC	1.25	60	52.0 lbs
	3"	GR8 7/8X3	Grade 8 Plow Bolt	5J2409	9-UNC	1.25	55	55.0 lbs
	3 1/4"	GR8 7/8X31/4	Grade 8 Plow Bolt	8J2935	9-UNC	1.50	50	60.0 lbs
	3 1/2"	GR8 7/8X31/2	Grade 8 Plow Bolt	2J2548	9-UNC	1.75	45	65.0 lbs
	4"	GR8 7/8X4	Grade 8 Plow Bolt		9-UNC	2.25	45	74.0 lbs
	5"	GR8 7/8X5	Grade 8 Plow Bolt		9-UNC	3.00	35	90.0 lbs
	1"	2 1/2"	GR8 1X21/2	Grade 8 Plow Bolt	3J2801	8-UNC	1.06	50
2 3/4"		GR8 1X23/4	Grade 8 Plow Bolt	1J5607	8-UNC	1.50	45	70.0 lbs
3"		GR8 1X3	Grade 8 Plow Bolt	4F4042	8-UNC	1.50	40	77.0 lbs
3 1/4"		GR8 1X31/4	Grade 8 Plow Bolt	4J9058	8-UNC	1.75	40	82.0 lbs
3 1/2"		GR8 1X31/2	Grade 8 Plow Bolt	4J9208	8-UNC	2.00	35	88.0 lbs
3 3/4"		GR8 1X33/4	Grade 8 Plow Bolt	1J4948	8-UNC	2.25	30	92.0 lbs
4"		GR8 1X4	Grade 8 Plow Bolt	5P8136	8-UNC	2.25	30	97.0 lbs
4 1/2"		GR8 1X41/2	Grade 8 Plow Bolt	1J3527	8-UNC	2.25	25	108.0 lbs
5 1/2"		GR8 1X51/2	Grade 8 Plow Bolt		8-UNC	3.50	20	129.0 lbs
6"		GR8 1X6	Grade 8 Plow Bolt		8-UNC	4.00	25	141.0 lbs
1 1/4"	3 3/4"	GR8 1 1/4X33/4	Grade 8 Plow Bolt	6V6535	7-UNC	2.25	15	156.0 lbs
	4"	GR8 1 1/4X4	Grade 8 Plow Bolt		7-UNC	2.25	15	163.0 lbs
	4 1/8"	GR8 1 1/4X41/8	Grade 8 Plow Bolt	5P8823	7-UNC	2.25	15	166.0 lbs
	4 1/2"	GR8 1 1/4X41/2	Grade 8 Plow Bolt	6V8360	7-UNC	2.25	15	178.0 lbs
	5"	GR8 1 1/4X5	Grade 8 Plow Bolt	5P8361	7-UNC	2.25	15	192.0 lbs
	5 1/2"	GR8 1 1/4X51/2	Grade 8 Plow Bolt	1981092	7-UNC	2.25	15	208.0 lbs
	6"	GR8 1 1/4X6	Grade 8 Plow Bolt		7-UNC	2.25	15	222.0 lbs
1 3/8"	4 1/2"	GR8 1 3/8X41/2	Grade 8 Plow Bolt		6-UNC	2.30	10	225.0 lbs
	5 1/2"	GR8 1 3/8X51/2	Grade 8 Plow Bolt		6-UNC	3.30	10	265.0 lbs
	6"	GR8 1 3/8X6	Grade 8 Plow Bolt		6-UNC	3.80	10	285.0 lbs



## Hex Plow Nuts

Part Number	Description	Caterpillar® Reference	Bolt Diameter	Thread	Height	Across Flats	Box Quantity	Ship Weight
GR8 3/4NC	Grade 8	2J3506	3/4"	10-UNC	41/64"	1 1/8"	250	11.5 lbs
GR8 5/8HNC	Grade 8 Heavy Duty		5/8"	11-UNC	39/64"	1 1/16"	325	11.9 lbs
GR8 5/8NC	Grade 8	4K0367	5/8"	11-UNC	35/64"	15/16"	400	7.1 lbs
GR8 7/8NC	Grade 8	2J3505	7/8"	9-UNC	3/4"	1 5/16"	150	18.1 lbs
GR8 1CNC	Grade 8 Conical Hex	8J2933	1"	8-UNC	55/64"	1 1/2"	100	29.1 lbs
GR8 1NC	Grade 8	2J3507	1"	8-UNC	55/64"	1 1/2"	100	26.7 lbs
GR8 1 1/4CNC	Grade 8 Conical Hex	5P8362	1 1/4"	7-UNC	1 1/16"	1 7/8"	50	50.3 lbs
GR8 1 1/4NC	Grade 8	3K9770	1 1/4"	7-UNC	1 1/16"	1 7/8"	50	52.5 lbs
GR8 1 3/8NC	Grade 8	302419	1 3/8"	6-UNC	1 11/64"	2 3/16"	35	87.0 lbs



## Hardened Washers

Part Number	Caterpillar® Reference	Bolt Diameter	Inside Diameter	Outside Diameter	Thickness	Box Quantity	Weight / 100
GR8 5/8W	5P8247	5/8"	21/32"	1 5/16"	5/32"	100	4.65 lbs
GR8 3/4W	5P8248	3/4"	13/16"	1 31/64"	5/32"	50	5.38 lbs
GR8 7/8W	5P8249	7/8"	15/16"	1 3/4"	5/32"	50	7.83 lbs
GR8 1W	5P8250	1"	1 9/64"	2 1/64"	5/32"	50	9.26 lbs
GR8 1 1/4W	4K0684	1 1/4"	1 5/16"	2 1/4"	1/4"	25	18.63 lbs
GR8 1 3/8W	465941	1 3/8"	1 15/32"	2 9/16"	5/16"	25	22.49 lbs



## Reducer Bolts

Bolt Diameter	Length	Part Number	Description	Caterpillar® Reference	Thread	Grip Length	Box Quantity	Weight / 100
5/8"	2 1/4"	GR8 5/8X21/4SP	3/4" Square Head		11-UNC	0.77	125	26.0 lbs
	2 3/4"	GR8 5/8X23/4SP	3/4" Square Head		11-UNC	0.77	100	31.0 lbs



## Reducer Bushing

Part Number	Height	Inside Diameter	Outside Diameter	Head Diameter	Box Quantity	Weight / 100
GR8 3/4-5/8	0.8"	11/16"	0.8"	1 1/4"	100	8.2 lbs

## Recommended Tightning Torque Values

Thread Diameter (in)	5/8"	3/4"	7/8"	1"	1 1/4"	1 3/8"
UNC Torque (lb.ft)	200 ± 30	350 ± 45	550 ± 65	850 ± 110	1700 ± 220	2250 ± 220
UNC Torque (Nm)	270 ± 40	475 ± 60	750 ± 90	1150 ± 150	2300 ± 300	3050 ± 300



# What Makes a Better Bolt?

## Shank and Thread Length

The weakest part of a plow bolt is the threaded area. Some of the competitors bolts are threaded the entire length of the bolt. It is always better to have a shank, or unthreaded part of the bolt in the critical area. The critical area when attaching cutting edges is between the blade and the moldboard where the largest concentration of shear pressure is found. Having a bolt with threads in this area weakens the entire system and leads to a higher percentage of bolts being sheared off or other premature failure.

## Oversize Shank

Some of the competitors bolts do not offer the heavier shank on the 1 ¼ inch bolts. This oversize shank is standard on our bolts, offering the customer a much stronger system.

## Thicker Domed Head

The Ajax bolt offers a thicker head than some of the competitors. This simply offers more wear life against abrasion, making the bolt last longer and thus keeping the blades longer.

## Tensile Strength

The measurement gives you an indication of how much the bolt can be stretched before it goes into failure. The higher tensile strength bolt allows more torque to be placed on the fastening system, keeping the blade tight and resulting in fewer failures. Some of the competitors bolts only meet the Grade 8 specification of 150,000 PSI. Ajax guarantees a minimum tensile strength of 170,000 PSI and typically achieves levels of 175,000 PSI.

## Cold Rolled Threads

Rolled threads, as opposed to machined threads, gives the user a better grain structure which strengthens the entire fastening system.

## Range of Product

Black Cat Wear Parts stocks an excellent range of hardware for cutting edge applications. Ajax Fasteners offers the widest range of sizes in the industry, allowing you to offer your customers the right bolt for their needs.

## Competitive Pricing

We import directly from the manufacturer in full container load quantities and offer what we believe to be the best pricing possible for the best quality hardware available in the industry today.

