



## Steel Carriage Bolts

■ Meet ASME B18.5 and SAE J429 standards

Use to fasten metal to metal or metal to wood. Square neck prevents bolt from turning while the nut is tightened.

Note: Additional sizes and bulk packs are available on Grainger.com®; search for "carriage bolts."



### GRADE 2

■ Tensile strength: 74,000 psi

### GRADE 5

■ Tensile strength: 120,000 psi

### GRADE 8

■ Tensile strength: 150,000 psi

Thread	1/4"-20	3/8"-18	1/2"-16	5/8"-14	3/4"-13	7/8"-11	1"-10
Head Dia.	0.563"	0.688"	0.782"	0.907"	1.032"	1.219"	1.469"
Head Height	0.125"	0.156"	0.188"	0.219"	0.250"	0.313"	0.375"
Square Width	0.245"	0.307"	0.368"	0.431"	0.492"	0.616"	0.741"
Square Height	0.125"	0.156"	0.188"	0.219"	0.250"	0.313"	0.375"
Drill Size	1/64"	2/64"	29/64"	29/64"	39/64"	41/64"	49/64"

Length	Finish	Item No.	Pkg. Qty.	Length	Finish	Item No.	Pkg. Qty.	Length	Finish	Item No.	Pkg. Qty.	Length	Finish	Item No.	Pkg. Qty.	Length	Finish	Item No.	Pkg. Qty.
<b>Grade 2</b>																			
<b>1/4"-20 Coarse</b>																			
1/2"	Black Oxide	31HZ22	100	3 1/2"	Black Oxide	31HZ29	50	1"	Zinc Plated	31HZ86	50	5"	Black Oxide	31HZ60	10	<b>5/8"-11 Coarse</b>			
1/2"	Zinc Plated	2XA26	100	3 1/2"	Galvanized	1LU89	50	1"	Zinc Plated	31HZ87	50	5"	Zinc Plated	31JA13	10	2"	Black Oxide	21A957	25
3/8"	Zinc Plated	31HZ64	100	4"	Black Oxide	31HZ30	50	1 1/4"	Black Oxide	31HZ48	50	6"	Black Oxide	31HZ61	10	2"	Zinc Plated	31JA63	10
3/4"	Black Oxide	21A879	100	4"	Galvanized	1LU90	50	1 1/4"	Zinc Plated	31HZ87	50	6"	Zinc Plated	31JA14	10	2 1/4"	Black Oxide	21A958	25
1"	Black Oxide	1LE79	100	4"	Zinc Plated	1LU19	50	1 1/2"	Black Oxide	21A903	50	<b>Grade 5</b>				2 1/2"	Black Oxide	21A959	25
1"	Zinc Plated	21A880	100	4 1/2"	Black Oxide	31HZ31	50	1 1/2"	Galvanized	1LY21	50	3/4"	Zinc Plated	2DU36	100	2 1/2"	Zinc Plated	31JA64	10
1"	Galvanized	1LU71	100	4 1/2"	Zinc Plated	1LU20	50	1 1/2"	Zinc Plated	1LU51	50	1 1/4"	Zinc Plated	2DU38	100	3"	Black Oxide	21A961	10
1 1/4"	Zinc Plated	1LU72	100	5"	Black Oxide	31HZ32	50	1 3/4"	Black Oxide	31HZ49	25	1 1/2"	Zinc Plated	2DU39	100	3 1/2"	Zinc Plated	21A962	10
1 1/4"	Galvanized	1LU71	100	5"	Galvanized	1LU92	50	2"	Zinc Plated	31HZ88	25	2"	Zinc Plated	2DU40	100	3 1/2"	Zinc Plated	31JA66	10
1 1/2"	Black Oxide	21A882	100	5 1/2"	Zinc Plated	1LU21	50	2"	Black Oxide	31HZ50	25	2 1/2"	Zinc Plated	2DU41	100	4"	Black Oxide	21A963	5
1 1/2"	Galvanized	1LU73	100	5 1/2"	Black Oxide	31HZ33	50	2"	Galvanized	31JA30	25	3"	Zinc Plated	31JA41	50	4"	Zinc Plated	31JA67	10
1 1/2"	Zinc Plated	1LE82	100	6"	Zinc Plated	1LU22	50	2 1/4"	Zinc Plated	31HZ89	25	3 1/2"	Zinc Plated	31JA42	50	4 1/2"	Black Oxide	21A964	5
1 3/4"	Zinc Plated	1LE83	100	6"	Black Oxide	31HZ34	50	2 1/4"	Zinc Plated	31HZ90	25	4"	Zinc Plated	31JA43	50	5"	Black Oxide	21A965	5
1 3/4"	Black Oxide	21A884	100	6"	Zinc Plated	1LU23	50	2 1/2"	Black Oxide	21A906	25	5"	Zinc Plated	31JA44	50	5 1/2"	Zinc Plated	31JA68	5
2"	Black Oxide	32TH86	800	<b>5/8"-16 Coarse</b>				2 1/2"	Galvanized	31JA31	25	5 1/2"	Black Oxide	21A966	5	6"	Black Oxide	21A969	5
2"	Galvanized	1LU74	100	3/4"	Zinc Plated	2XA29	100	2 1/2"	Zinc Plated	31JA32	25	6"	Zinc Plated	31JA69	10	<b>3/4"-10 Coarse</b>			
2 1/4"	Zinc Plated	1LE84	100	3/4"	Black Oxide	21A894	100	2 1/2"	Zinc Plated	31HZ91	25	1"	Zinc Plated	2DU43	100	3"	Black Oxide	31JA70	10
2 1/4"	Black Oxide	1LE85	100	1"	Black Oxide	32TJ05	500	2 3/4"	Black Oxide	21A907	25	1"	Zinc Plated	2DU44	100	3"	Zinc Plated	21A972	5
2 1/2"	Black Oxide	21A885	100	1"	Zinc Plated	1LU95	100	3"	Black Oxide	31HZ49	25	1 1/4"	Zinc Plated	2DU45	100	3"	Zinc Plated	31JA71	10
2 1/2"	Galvanized	31HZ25	100	1 1/4"	Galvanized	31JA23	100	3"	Galvanized	31JA32	25	1 1/4"	Zinc Plated	2DU46	100	3 1/2"	Black Oxide	21A973	5
2 3/4"	Zinc Plated	1LE87	100	1 1/4"	Zinc Plated	1LU25	100	3"	Zinc Plated	31HZ93	25	1 1/2"	Zinc Plated	2DU47	100	3 1/2"	Black Oxide	21A974	5
3"	Black Oxide	31HZ23	50	1 1/2"	Black Oxide	21A895	100	3 1/2"	Black Oxide	21A908	25	1 3/4"	Zinc Plated	2DU48	100	4"	Zinc Plated	31JA72	10
3"	Galvanized	31JA17	50	1 1/2"	Galvanized	32TJ06	400	3 1/2"	Galvanized	1LY25	25	1 3/4"	Zinc Plated	2DU49	100	4 1/2"	Black Oxide	21A975	5
3"	Zinc Plated	31HZ65	50	1 3/4"	Zinc Plated	1LU26	100	3 1/2"	Zinc Plated	1LU55	25	1 3/4"	Zinc Plated	2DU50	100	5"	Black Oxide	21A976	5
3"	Black Oxide	31HZ24	50	1 3/4"	Black Oxide	31HZ35	50	4"	Black Oxide	32TJ20	100	1"	Zinc Plated	2DU51	100	5"	Zinc Plated	31JA73	10
3 1/2"	Galvanized	31JA18	50	2"	Black Oxide	31HZ36	50	4"	Galvanized	31JA33	10	1 1/4"	Zinc Plated	2DU52	100	6"	Black Oxide	21A978	5
3 1/2"	Zinc Plated	31HZ25	50	2"	Galvanized	31JA24	50	4"	Zinc Plated	31HZ94	10	1 1/2"	Zinc Plated	2DU53	100	<b>Grade 8</b>			
3 1/2"	Black Oxide	31HZ26	50	2 1/4"	Zinc Plated	31HZ37	50	4"	Black Oxide	21A911	10	1 3/4"	Zinc Plated	2DU54	100	<b>1/4"-20 Coarse</b>			
4"	Galvanized	31JA19	50	2 1/4"	Black Oxide	31HZ38	50	5"	Zinc Plated	31JA34	10	2"	Zinc Plated	2DU55	100	1 1/4"	Zinc Plated	21A883	100
4"	Zinc Plated	31HZ27	50	2 1/2"	Galvanized	1LU98	50	5"	Galvanized	31JA35	10	2 1/4"	Zinc Plated	2DU56	50	1 3/4"	Black Oxide	21A886	100
4 1/2"	Black Oxide	31HZ28	50	2 3/4"	Zinc Plated	1LU30	50	6"	Galvanized	31JA36	10	2 1/2"	Zinc Plated	2DU57	50	1 3/4"	Black Oxide	21A890	100
4 1/2"	Zinc Plated	31HZ28	50	2 3/4"	Black Oxide	31HZ37	25	6"	Zinc Plated	31HZ96	10	3"	Zinc Plated	31JA50	25	<b>3/8"-16 Coarse</b>			
5"	Galvanized	31JA20	50	3"	Black Oxide	31HZ38	25	<b>5/8"-11 Coarse</b>				3"	Zinc Plated	31JA51	25	3/4"	Black Oxide	21A893	100
5"	Zinc Plated	31HZ29	50	3"	Galvanized	31JA25	25	1 1/2"	Zinc Plated	31JA01	10	4"	Zinc Plated	31JA52	25	3/4"	Black Oxide	21A896	100
<b>5/8"-18 Coarse</b>				3 1/2"	Galvanized	31HZ38	25	1 1/2"	Black Oxide	31HZ51	10	5"	Zinc Plated	31JA53	10	1 1/4"	Black Oxide	21A897	100
3/4"	Zinc Plated	1LE98	100	3 1/2"	Black Oxide	31JA26	25	2"	Zinc Plated	31JA36	10	6"	Zinc Plated	31JA54	10	1 1/2"	Black Oxide	21A898	100
3/4"	Black Oxide	21A887	100	3 1/2"	Galvanized	31HZ42	25	2"	Zinc Plated	31JA02	10	1"	Zinc Plated	2DU60	50	2"	Black Oxide	21A899	100
3/4"	Black Oxide	32TH93	800	3 1/2"	Zinc Plated	31HZ43	25	2 1/4"	Black Oxide	31HZ52	10	1 1/4"	Black Oxide	21A92	50	3"	Black Oxide	21A900	100
1"	Galvanized	1LU84	100	3 1/2"	Black Oxide	21A901	25	2 1/4"	Black Oxide	31HZ53	10	1 1/4"	Zinc Plated	2DU61	50	3"	Black Oxide	21A901	100
1"	Zinc Plated	1LE99	100	4"	Black Oxide	32TJ11	200	2 1/2"	Black Oxide	31JA37	10	1 1/2"	Black Oxide	21A93	50	3 1/2"	Black Oxide	21A902	100
1 1/4"	Black Oxide	21A888	100	4"	Galvanized	31JA27	25	2 1/2"	Galvanized	31JA37	10	1 1/2"	Zinc Plated	2DU62	50	4"	Black Oxide	21A903	100
1 1/4"	Galvanized	31JA21	100	4"	Zinc Plated	31HZ75	25	3"	Black Oxide	21A919	10	1 3/4"	Zinc Plated	2DU63	50	4 1/2"	Black Oxide	21A904	100
1 1/4"	Zinc Plated	1LU10	100	4 1/2"	Black Oxide	31HZ39	10	3"	Galvanized	31JA38	10	2"	Black Oxide	21A95	25	5 1/2"	Black Oxide	21A912	10
1 1/2"	Black Oxide	21A889	100	4 1/2"	Zinc Plated	31HZ40	10	3"	Zinc Plated	31JA39	10	2"	Black Oxide	31JA55	25	<b>5/8"-11 Coarse</b>			
1 1/2"	Black Oxide	32TH94	600	5"	Black Oxide	31HZ41	10	3 1/2"	Black Oxide	31JA40	10	2"	Zinc Plated	31JA56	25	2 1/4"	Black Oxide	21A915	25
1 1/2"	Galvanized	1LU85	100	5"	Galvanized	31JA28	10	3 1/2"	Black Oxide	31JA41	10	2 1/2"	Zinc Plated	31JA57	25	2 1/2"	Black Oxide	21A916	25
1 1/2"	Zinc Plated	1LU11	100	5 1/2"	Zinc Plated	31HZ77	10	4"	Black Oxide	31HZ55	10	3"	Black Oxide	21A97	25	2 3/4"	Black Oxide	21A917	25
1 3/4"	Zinc Plated	1LU12	100	5 1/2"	Black Oxide	31HZ78	10	4"	Galvanized	31JA39	10	3"	Zinc Plated	31JA58	25	3 1/2"	Black Oxide	21A920	5
1 3/4"	Black Oxide	21A891	100	6"	Galvanized	31HZ42	10	4 1/2"	Zinc Plated	31JA06	10	3 1/2"	Black Oxide	21A948	25	4"	Black Oxide	21A921	5
2"	Black Oxide	32TH95	500	6"	Zinc Plated	31HZ79	10	4 1/2"	Black Oxide	31HZ56	10	3 1/2"	Zinc Plated	31JA59	10	4 1/2"	Black Oxide	21A922	5
2"	Galvanized	1LU86	100	<b>3/4"-14 Coarse</b>				5"	Galvanized	31JA40	10	4"	Black Oxide	21A949	10	5"	Black Oxide	21A923	5
2 1/4"	Zinc Plated	1LU13	100	1"	Zinc Plated	31HZ82	50	5"	Zinc Plated	31JA07	10	4"	Zinc Plated	31JA60	10	6"	Black Oxide	21A924	5
2 1/4"	Zinc Plated	1LU14	100	1 1/4"	Black Oxide	31HZ84	50	5"	Black Oxide	31HZ57	10	4 1/2"	Black Oxide	21A950	25	<b>3/4"-10 Coarse</b>			
2 1/4"	Black Oxide	21A892	100	1 1/2"	Black Oxide	31HZ45	50	6"	Zinc Plated	31JA09	10	5"	Black Oxide	21A951	10	3"	Black Oxide	21A929	10
2 1/2"	Black Oxide	32TH96	400	1 1/2"	Black Oxide	31HZ46	50	<b>3/4"-10 Coarse</b>				5"	Zinc Plated	31JA61	10	2 3/4"	Black Oxide	21A930	10
2 1/2"	Galvanized	1LU87	100	2"	Zinc Plated	31LU48	50	2"	Black Oxide	21A928	10	5 1/2"	Black Oxide	21A952	10	3"	Black Oxide	21A931	5
2 1/2"	Zinc Plated	1LU15	100	2 1/2"	Black Oxide	31HZ47	25	2"	Zinc Plated	31JA28	10	6"	Black Oxide	21A953	10	3 1/2"	Black Oxide	21A932	5
2 3/4"	Zinc Plated	31HZ70																	