



Standard Part

Short Sqr Neck Rnd Head Bolts - Metric Coarse Thread Misc. - Non-Preferred

STPB780

87304645

Rev BK

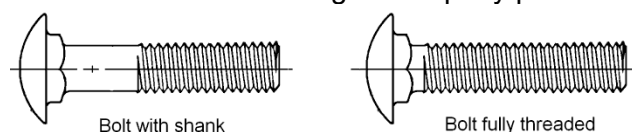
Page 1 of 3

REFERENCE DOCUMENTS

- CNH STPA020 Fastener Finishes and Material Specifications
- ISO 8678 Cup head square neck bolts with small head and short neck - Product grade B
- ISO 888 Bolts screws and studs – Nominal lengths and thread lengths for general purpose bolts
- ISO 898-1 Mechanical properties of fasteners made of carbon steel and alloy steel
- ISO 4759-1 Tolerances
- ISO 6157-3 Fasteners - Surface Discontinuities

When a standard is referenced in a drawing or specification, it is understood that the reference is to the latest revision of the standard, unless stated otherwise.

For cross reference listing of company part numbers, go to [PARTsolutions](#).



- Thread Length: ISO 888, 8678
- Shank Length: ISO 8678
- Grip Length: ISO 8678
- Head dimensions: ISO 8678

Typical part description for BOM's and CAD drawings

BOLT, RDH SHT SQNK M12X30 8.8 ZND

Bolts and screws shall be free from burrs, seams, laps, loose scale, irregular surfaces and any defects affecting their serviceability (ISO 6157-3).

Table 1. Short Neck Carriage Bolts General Information

Bolt Nominal Diameter	6	8	10	12	16	20
Coarse Thread Pitch	1	1.25	1.5	1.75	2	2.5
Length of thread for						
Bolt length to 125	18	22	26	30	38	46
Bolt length 126 to 200	24	28	32	36	44	52
Bolt length: >200	37	41	45	49	57	65
Sq Neck width across flats - max	6.48	8.58	10.58	12.70	16.70	20.84
Sq Neck height - max	3	3	4	4	5	5
Round head dia. - max.	14.2	18.0	22.3	26.6	35.0	43.0
Round head height - max.	3.6	4.8	5.8	6.8	8.9	10.9

AUTHOR	APPROVED BY	ECO	PART NUMBER
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Rev BK

Page 2 of 3

Table 2. Round Head Short Square Neck Bolts – Misc – Non-Preferred

Dia	Length	Thread Length	Material	Finish	Part Number
6	20		8.8	PLN	84499093
6	20		8.8	DOR	92062031
6	20		10.9	ZND	87752072
6	25		8.8	BZN	47362322
6	30		8.8	PLN	84183810
6	50		8.8	PLN	84370848
6	70		8.8	ZND	86639147
6	80		8.8	ZND	86512442
6	90		8.8	ZND	120036
8	16		10.9	ZND	87020310
8	16		SST	PLN	920019662
8	20	15	8.8	ZND	707700537
8	20	FULL	8.8	DAC	90500190
8	20		8.8	DOR	86981471
8	20		8.8	POL	87307804
8	20		10.9	ZND	87682383
8	20		SST	PLN	920019663
8	25		8.8	DOR	86981472
8	25		10.9	ZND	87682384
8	25		SST	PLN	920019664
8	30		8.8	PLN	87040864
8	30		8.8	ZND	707700891
8	30		8.8	DOR	87342174
8	30		10.9	ZND	87682385
8	30		10.9	DAC	90357920
8	30		SST	PLN	51554122
8	35		10.9	ZND	87682386
8	40		10.9	ZND	87682387
8	45		10.9	ZND	87682388
8	50		10.9	ZND	87682389
8	50		10.9	DOR	47546689
8	50		A2-80	PLN	90382936
8	60		8.8	DAC	90489120
8	60		10.9	ZND	84319915
8	60	FULL	10.9	ZND	90363761
8	70		10.9	ZND	47606587
8	75		8.8	ZND	84263395
8	80		8.8	DOR	47546685
8	90		8.8	ZND	47520616
8	90		8.8	DAC	90489096
8	100	FULL	8.8	ZND	48065825
8	100		8.8	ZND	47380616
8	100		10.9	ZND	87695411

Dia	Length	Thread Length	Material	Finish	Part Number
8	120		4.6	ZND	84359108
8	120		8.8	ZND	47678833
8	160		4.6	ZND	84359109
10	20		8.8	DOR	87342171
10	20		10.9	ZND	87682390
10	25		8.8	BGM	90347412
10	25		8.8	BZN	90335769
10	25		8.8	DOR	86981473
10	25		8.8	PLN	412237
10	25		10.9	PLN	90477021
10	25		10.9	ZND	87682391
10	30		8.8	PLN	84365540
10	30		8.8	DOR	86981474
10	30	FULL	8.8	DAC	90489131
10	30		10.9	ZND	87682392
10	35		8.8	ZND	707700560
10	35		8.8	PLN	84365542
10	35		10.9	ZND	87682393
10	40		8.8	ZND	707700628
10	40		10.9	ZND	87682394
10	45		10.9	ZND	87682395
10	50		8.8	ZND	707700826
10	50		10.9	DOR	92700006
10	50		10.9	ZND	87682396
10	50	FULL	10.9	ZND	47875973
10	55		8.8	BGM	90351105
10	60		8.8	BGM	90351108
10	70		10.9	ZND	87752069
10	75		10.9	ZND	92210520
10	80		8.8	BGM	90347413
10	80		8.8	BZN	90335767
10	100		10.9	ZND	92080516
10	110		8.8	ZND	47481087
10	130		10.9	ZND	84188427
12	16		8.8	ZND	757919
12	25		10.9	PLN	47612868
12	25		10.9	ZND	9503839
12	30		8.8	DOR	86981475
12	30		8.8	PLN	412061
12	30		10.9	ZND	87695426
12	35	FULL	8.8	PLN	51673426
12	35		10.9	ZND	87695427
12	40		8.8	PLN	84146880

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Page 3 of 3

12	40	FULL	8.8	DAC	90357924
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Table 2. Round Head Short Square Neck Bolts – Misc – Non-Preferred (Continued)

Dia	Length	Thread Length	Material	Finish	Part Number
12	40		8.8	DOR	86981675
12	40		10.9	PLN	90477757
12	40		10.9	ZND	87698852
12	45		8.8	ZND	707870413
12	45		10.9	ZND	87495307
12	45		10.9	ZND	@92092720
12	50		8.8	ZND	707770027
12	50		10.9	PLN	92031931
12	50		10.9	ZND	87698853
12	50	FULL	10.9	ZND	47876041
12	60	FULL	8.8	ZND	412097
12	60	FULL	10.9	ZND	47876040
12	60		10.9	ZND	87495309
12	70		10.9	ZND	90370593
12	85		8.8	ZND	47609164
12	100		10.9	ZND	87497917
12	110	FULL	8.8	ZND	354298
12	120		10.9	ZND	87495310
12	125		8.8	ZND	87036640
12	130		8.8	ZND	47375982
12	130		10.9	ZND	92304987
12	135		8.8	ZND	9819462
12	140		8.8	ZND	47569013
12	150		8.8	ZND	47552730
16	30		10.9	ZND	87698767
16	40		10.9	ZND	84382750
16	50		10.9	ZND	87698768
16	50		10.9	DOR	86981476
16	60		10.9	DOR	84470496
16	70		10.9	DOR	86981477
16	80		10.9	ZND	86500581
16	100		10.9	ZND	84129685
16	110		10.9	ZND	84557165
16	120		10.9	ZND	84129686
16	130		10.9	ZND	48087036
16	140		10.9	ZND	84595757
16	150		10.9	ZND	47736890
16	180		10.9	ZND	84554741
16	190		10.9	ZND	84561109
20	60	FULL	10.9	DOR	86981478
20	70	FULL	10.9	DOR	47920020
20	80	FULL	10.9	ZND	84480445

20	100	FULL	10.9	ZND	84370842
Dia	Length	Thread Length	Material	Finish	Part Number
20	120		10.9	ZND	48097655

@Chemical lock per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.