



Standard Part

Hexagon Head Bolts - Metric Coarse Thread Class 8.8 DOR – Non-Preferred

STPB530

87026720

Rev Y

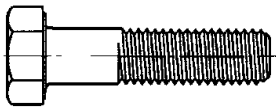
Page 1 of 4

REFERENCE DOCUMENTS

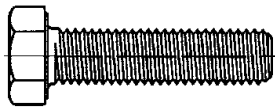
- CNH STPA020 Fastener Finishes and Material Specifications
- ISO 4014 Hexagon head bolts – Product grades A and B
- ISO 4017 Hexagon head bolts – Product grades A and B Full Thread
- ISO 888 Bolts screws and studs – Nominal lengths and thread lengths for general purpose bolts
- ISO 898-1 Mechanical properties of fasteners made of carbon steel and alloy steel
- ISO 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 [CNH Catalogue](#).



ISO 4014 Bolt with shank



ISO 4017 Bolt fully threaded

- Thread Length: ISO 888
- Material: Class 8.8 per STPA020 and ISO 898-1
- Finish: DOR (Magni coating)
- Specifications: ISO 4014, 4017

Typical part description for BOM's and CAD drawings

BOLT, M10X25 FULL 8.8 DOR

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

Head Size Issues.

At the time of the merger, Case was already using ISO standards as a basis for standard hardware parts, while New Holland was generally using DIN standards. CNH standard parts will be specified to ISO standards whenever available.

When we began to combine Case and New Holland standard parts there were systems issues preventing the use of the former Case alpha-numeric part numbers in the New Holland systems. To resolve this problem, it was determined to use the New Holland number as the surviving number whenever one was available. If an all numeric format number was not available, one was created.

AUTHOR	APPROVED BY	ECO	PART NUMBER
A KHAN	04NOV22	A KHAN	04NOV22
		35358965	87026720

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Standard Part

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Rev Y

Page 2 of 4

Cross references, were based on overall dimensions and performance characteristics. In the case of hex head screws, bolts and nuts, some dimensional mismatches resulted; namely head dimensions as follows:

Bolt size	Across flats dimension	
	Old DIN	CNH, ISO
M10	17	16
M12	19	18
M14	22	21
M22	32	34

Bolts in this standard, which may have formerly been supplied to these old across flats dimensions must now be delivered with the current ISO dimensions, unless explicit engineering deviation to use bolts to the old dimensions has been granted.

It is important that all bolts of a given diameter on a product be to the same head size. Therefore, bolts to the old and current standard should not be mixed.



Standard Part

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STPB530

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Rev Y

Page 3 of 4

Table 1. Non-Preferred Metric Hexagon Head Bolts

	Length	Bolt Nominal Diameter						
		4	5	6	8	10	12	14
ISO 4017 Full thread	12	87342151		86980358	48116778			
	16	91759386		86980359	86980378	86980398		
	20	51469863		86980360	86980379	86980399	86980418	
	25			86980361	86980380	86980400	86980419	
ISO 4014 Product grade A	30	91897127		86980362	86980381	86980401	86980420	
	35			86980363	86980382	86980402	86980422	
	40	47417282		86980364	86980383	86980403	86980423	87672180
	45		87733376	86980365	86980384	86980404	86980424	87672190
	50			86980366	86980385	86980405	86980425	
	55			87341841	87610713	87341824		
	60			86980367	86980386	86980406	86980426	
ISO 4014 Product grade B Nominal diameter over M24 or Length over 10d or 150 mm whichever is shorter	65						90379636	
	70			86980368	86980387	86980407	86980427	
	75				87341844			
	80			86980369	86980388	86980408	86980428	87675524
	90			86980370	86980389	86980409	86980429	87672191
	100			87341834	86980390	86980410	86980430	
	110			86980371	86980391	86980411	86980431	
	120			86980372	86980392	86980412	86980432	
	125					87341788		
	130			86980373	86980393	86980413	86980433	
	140			86980374	86980394	86980414	86980434	
	150			86980375	86980395	86980415	86980435	
	160			86980376	86980396	86980416	86980436	
	170				90415469	87341825		
	180			86980377	86980397	86980417	86980437	
	190						86980993	
200			87641488			87341826		
240			87641489					
Bolt Nominal Diameter		4	5	6	8	10	12	14
Coarse Thread Pitch		.7	.8	1	1.25	1.5	1.75	2
Length of thread for								
Bolt length to 125		14	16	18	22	26	30	34
Bolt length 126 to 200		20	22	24	28	32	36	40
Bolt length: >200		33	35	37	41	45	49	53
Width across flats nom./ max		7	8	10	13	16	18	21
Width across corners min.		7.66	8.79	11.05	14.38	17.77	20.03	23.36
Head height max.		2.93	3.65	4.15	5.45	6.58	7.68	8.98



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87026720

Rev Y

Page 4 of 4

Table 1. Non-Preferred Metric Hexagon Head Bolts (Continued)

	Length	Bolt Nominal Diameter						
		16	18	20	22	24	30	36
ISO 4017 Full thread	25	86980442						
	30	86980443		86980456				
	35			84600275				
	40	86980444		86980457				
	45			86980458				
	50	87341745		86980459				
	55							
	60	86980445		86980460			90358201	
ISO 4014 Product grade A	65	87341829		87342141				
	70	86980446		86980703				
	75							
	80	86980447		87341550	86980469	86980479	86980489	
	90	86980510		86980511	86980470	86980480	86980490	
	100	86980448	87341830	86980461	86980471	86980481	86980491	86980499
	110	86980449		86980462	86980472	86980482	86980492	86980500
	120	86980450		86980463	86980473	86980483	86980493	86980501
	125							
	130	86980451		86980464	86980474	86980484	86980494	86980502
	140	86980452		86980465	86980475	86980485	86980495	86980503
150	86980453		86980466	86980476	86980486	86980496	86980504	
ISO 4014 Product grade B	160	86980454		86980467	86980477	86980487	86980497	86980505
	170							
	180	86980455		86980468	86980478	86980488	86980498	
	190							
	200	87341828						
	220	90415991						
Bolt Nominal Diameter		16	18	20	22	24	30	36
Coarse Thread Pitch		2	2.5	2.5	2.5	3	3.5	4
Length of thread for								
Bolt length to 125		38	42	46	50	54	66	-
Bolt length 126 to 200		44	48	52	56	60	72	84
Bolt length: >200		57		65	69	73	85	97
Width across flats nom./ max		24	27	30	34	36	46	55
Width across corners min.		26.75	37.72	32.95	37.72	39.55	50.85	60.79
Head height max.		10.18	14.22	12.72	14.35	15.22	19.12	22.92