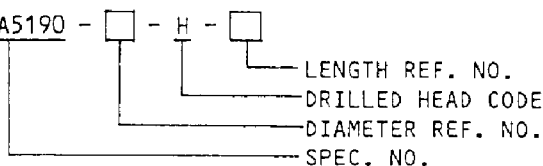


MATERIAL	MECHANICAL CHARACTERISTIC REFERENCE	PROTECTION	APPLICABLE TEMPERATURE MAX
Steel alloy melted in vacuum per AMS6478 or E-40CDV20 per Standard AIR9160	R min 1790MPa Rc min 1076MPa Rockwell hardness Hrc 51-54	Cadmium plated (vacuum deposited) type II class 2 (chromate treatment) per MIL-C-8837	232°C (450°F)

NOTE: DIMENSIONS A AND B ARE CONCENTRIC WITHIN TOLERANCE X (TOTAL COMPARATOR READING).
DIMENSIONS W AND J ARE CONCENTRIC WITHIN TOLERANCE Y (TOTAL COMPARATOR READING).
DIMENSION B AND THE THREAD REFERENCE DIAMETER ARE CONCENTRIC WITHIN TOLERANCE Z (TOTAL COMPARATOR READING).
SHANK STRAIGHTNESS MUST BE $\leq 0,076$ PER 25,4 LENGTH.

REFERENCE SPS: 64219

PART NUMBER IDENTIFICATION: NSA5190 -



NSA5190-5-14 = 12 FLAT SCREW DIA. 7,94 TOTAL LENGTH 37,744, ALLOY STEEL
NSA5190-5-H-14 = 12 FLAT SCREW DIA. 7,94 DRILLED HEAD, TOTAL LENGTH 37,744 ALLOY STEEL

PROCUREMENT SPECIFICATION: IGC 04 45 115

Approved AIRBUS-INDUSTRIE	Title	Classification
	SCREW - 12 FLATS, REPAIR SIZE DIA. +1/32	NSA5190
	Issue: 12/72 Revision: ① 10/84	Page 01 of 04

STANDARDS MANUAL

Ø REF. NO.	THREAD	Ø A	Ø B	C MIN	Ø D	E MIN	H	J + 0,254 - 0,762	M
3	10-32	9,372 9,118	5,605 5,579	7,036	6,350 5,9	2,489	5,435	3,962	1,575
4	1/4-28	12,065 11,811	7,129 7,093	8,814	7,925 7,544	3,429	6,451	4,572	
5	5/16-24	14,859 14,605	8,717 8,692	10,642	9,525 9,144	4,115	8,102	5,461	1,778
6	3/8-24	18,415 18,161	10,304 10,278	14,249	12,700 12,319	5,004	10,287	7,544	
7	7/16-20	21,082 20,828	11,892 11,867	16,027	14,275 13,894	5,791	11,785	8,128	
8	1/2-20	24,130 23,876	13,479 13,453	17,856	15,875 15,494	6,451	13,462	9,652	2,388
9	9/16-18	26,797 26,543	15,054 15,028	21,488	19,050 18,669	7,290	15,240	11,176	
10	5/8-18	30,353 30,099	16,642 16,616	23,291	20,624 20,243	8,306	17,094	11,912	
12	3/4-16	36,195 35,941	19,817 19,791	26,898	23,799 23,418	9,652	20,472	14,478	
14	7/8-14	41,783 41,529	22,992 22,966	32,283	28,575 28,194	11,125	24,511	19,050	3,175

Ø REF. NO.	N ± 0.127	Q	R	T REF.	U REF.	W	X	Y	Z
							CONCENTRICITY		
3	0,940	1,016	1,041 0,787	10,642	1,016	6,375 6,172	0,127	0,102	0,102
4		1,067		13,487	1,270	7,950 7,721			0,076
5		1,270		15,519		9,550 9,322			
6	1,397	1,905	1,448 1,194	17,957	1,524	12,751 12,497	0,203	0,063	0,063
7		2,108		20,675		14,325 14,046	0,229		
8		2,489		23,520	2,032	15,925 15,646	0,254		
9		2,997	26,035	19,100 18,821		0,279			
10		3,175	1,854 1,600	29,260	2,286	20,675 20,396	0,305	0,228	
12		3,861		33,375		23,876 23,571	0,381		
14		5,359		38,608	2,540	28,626 38,321	0,457		

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LENGTH REF. NO.	PLAIN SHANK	LENGTH ± 0.381								
		3	4	5	6	7	8	9	10	12
2	3,175	13,817	16,662	18,694	21,132					
4	6,350	16,992	19,837	21,869	24,307					
6	9,525	20,167	23,012	25,044	27,482	30,200	33,045			
8	12,700	23,342	26,187	28,219	30,657	33,375	36,220	38,227	41,960	
10	15,875	26,517	29,362	31,394	33,832	36,550	39,395	41,910	45,135	49,250
12	19,050	29,692	32,537	34,569	37,007	39,725	42,570	45,085	48,310	52,425
14	22,225	32,867	35,712	37,744	40,182	42,900	45,745	48,260	51,485	55,600
16	25,400	36,042	38,887	40,919	43,357	46,075	48,920	51,435	54,660	58,775
18	28,575	39,217	42,062	44,094	46,532	49,250	52,095	54,610	57,835	61,950
20	31,750	42,392	45,237	47,269	49,707	52,425	55,270	57,785	61,010	65,125
22	34,925	45,567	48,412	50,444	52,882	55,600	58,445	60,960	64,185	68,300
24	38,100	48,742	51,587	53,619	56,057	58,775	61,620	64,135	67,360	71,475
26	41,275	51,917	54,762	56,794	59,232	61,950	64,795	67,310	70,535	74,650
28	44,450	55,092	57,937	59,969	62,407	65,125	67,970	70,485	73,710	77,825
30	47,625	58,267	61,112	63,144	65,582	68,300	71,145	73,660	76,885	81,000
32	50,800	61,442	64,287	66,319	68,757	71,475	74,320	76,835	80,060	84,175
34	53,975	64,617	67,462	69,494	71,932	74,650	77,495	80,010	83,235	87,350
36	57,150	67,792	70,637	72,669	75,107	77,825	80,670	83,185	86,410	90,525
38	60,325	70,967	73,812	75,844	78,282	81,000	83,845	86,360	89,585	93,700
40	63,500	74,142	76,987	79,019	81,457	84,175	87,020	89,535	92,760	96,875
42	66,675	77,317	80,162	82,194	84,632	87,350	90,195	92,710	95,935	100,050
44	69,850	80,492	83,337	85,369	87,802	90,525	93,370	95,885	99,110	103,225
46	73,025	83,667	86,512	88,544	90,982	93,700	96,545	99,060	102,285	106,400
48	76,200	86,842	89,687	91,719	94,157	96,875	99,720	102,235	105,460	109,575
50	79,375	90,017	92,862	94,894	97,332	100,050	102,895	105,410	108,635	112,750
52	82,550	93,192	96,037	98,069	100,507	103,225	106,070	108,585	111,810	115,925
54	85,725	96,367	99,212	101,244	103,682	106,400	109,245	111,760	114,985	119,100
56	88,900	99,542	102,387	104,419	106,857	109,575	112,420	114,935	118,160	122,275
58	92,075	102,717	105,502	107,594	110,032	112,750	115,595	118,110	121,335	125,450
60	95,250	105,892	108,737	110,769	113,207	115,925	118,770	121,285	124,510	128,625
62	98,425	109,067	111,912	113,944	116,382	119,100	121,945	124,460	127,685	131,800
64	101,600	112,242	115,087	117,119	119,557	122,275	125,120	127,635	130,860	134,975
66	104,775		118,262	120,294	122,732	125,450	128,295	130,810	134,035	138,150
68	107,950		121,435	123,469	125,907	128,625	131,470	133,985	137,210	141,325
70	111,125		124,612	126,644	129,082	131,800	134,645	137,160	140,385	144,500
72	114,300		127,787	129,819	132,257	134,975	137,820	140,335	143,560	147,675
74	117,475		130,962	132,994	135,432	138,150	140,995	143,510	146,735	150,800
76	120,650		134,137	136,169	138,607	141,325	144,170	146,685	149,910	154,025
78	123,825		137,312	139,344	141,782	144,500	147,345	149,860	153,085	157,200
80	127,000		140,487	142,519	144,957	147,675	150,520	153,035	156,260	160,375
82	130,175		143,662	145,694	148,132	150,850	153,695	156,210	159,435	163,550
84	133,350		146,837	148,869	151,307	154,025	156,870	159,385	162,610	166,725
86	136,525		150,012	152,044	154,482	157,200	160,045	162,560	165,785	169,900
88	139,700		153,187	155,219	157,657	160,375	163,220	165,735	168,960	173,075
90	142,875		156,362	158,394	160,832	163,550	166,395	168,910	172,135	176,250
92	146,050		159,537	161,569	164,007	166,725	169,570	172,085	175,310	179,425
94	149,225		162,712	164,744	167,182	169,900	172,745	175,260	178,485	182,600
96	152,400		165,887	167,920	170,357	173,075	175,920	178,435	181,660	185,775
98	155,575						179,095	181,610	184,835	188,950
100	158,750						182,270	184,785	188,010	192,125
102	161,925						185,445	187,960	191,185	195,300
104	165,100						188,620	191,135	194,360	198,475
106	168,265						191,795	194,310	197,535	201,650
108	171,450						194,970	197,485	200,710	204,825
110	174,625						198,145	200,660	203,885	206,730
112	177,800						201,320	203,835	207,060	211,175

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LENGTH REF. NO.	PLAIN SHANK	LENGTH $\pm 0,381$	
		14	
2	3,175		
4	6,350		
6	9,525		
8	12,700		
10	15,875		
12	19,050	57,658	
14	22,225	60,833	
16	25,400	63,008	
18	28,575	67,183	
20	31,750	70,358	
22	34,925	73,533	
24	38,100	76,708	
26	41,275	79,883	
28	44,450	83,058	
30	47,625	86,233	
32	50,800	89,408	
34	53,975	92,583	
36	57,150	95,758	
38	60,325	98,933	
40	63,500	102,108	
42	66,675	105,283	
44	69,850	108,458	
46	73,025	111,633	
48	76,200	114,808	
50	79,375	117,983	
52	82,550	121,158	
54	85,725	124,333	
56	88,900	127,508	
58	92,075	130,683	
60	95,250	133,858	
62	98,425	137,033	
64	101,600	140,208	
66	104,775	143,383	
68	107,950	146,558	
70	111,125	149,733	
72	114,300	152,908	
74	117,475	156,083	
76	120,650	159,258	
78	123,825	162,433	
80	127,000	165,608	
82	130,175	168,783	
84	133,350	171,958	
86	136,525	175,133	
88	139,700	178,308	
90	142,875	181,483	
92	146,050	184,658	
94	149,225	187,833	
96	152,400	191,008	
98	155,575	194,183	
100	158,750	197,358	
102	161,925	200,533	
104	165,100	203,708	
106	168,275	206,883	
108	171,450	210,058	
110	174,625	213,233	
112	177,800	216,408	

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