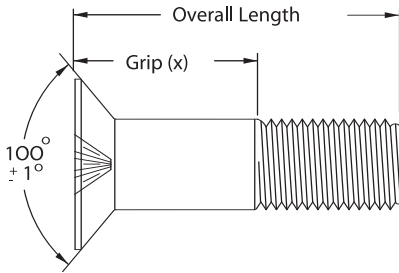


Genuine Aircraft Hardware Co.

MS24694 Series

100 Deg.. Countersunk, Structural Screws, Phillips Drive

These are STRUCTURAL fasteners that replace the AN509 Series.



Use the MS24694 series to replace AN509 screws of like material and finish. SEE THE CHARTS for desired size numbers. SEE CROSS REFERENCE on next page for Superseding Part Numbers.

Do Not Order By AN509 Numbers

TENSILE STRENGTH, 125,000 TO 145,000 PSI. (ALLOY STEEL) one (X) on head.
TENSILE STRENGTH, 85,000 PSI (STAINLESS STEEL) one (dash) on head.

HELP WITH THE SELECTION OF PART NUMBERS

USE (S) AFTER MS24694 AND BEFORE (SIZE NUMBER), FOR ALLOY STEEL, CAD II PLATED.
USE (C) AFTER MS24694 AND BEFORE (SIZE NUMBER), FOR 300 SERIES STAINLESS STEEL, UNPLATED.

Examples of Part Numbers:

MS24694S50 = 10 - 32 Threads, 17/32" Overall length including the head, 7/64" Grip, Cadmium II plated, Steel.
MS24694C101 = 1/4 - 28 Threads, 29/32" Overall length including the head, 11/32" Grip, Unplated, 300 Series Stainless.

For actual screw length add 1/32 of an inch to overall length.

D= Threads, Dia - Pitch Overall (Length)	MS24694 (material)(size)					
	8-32		10-32		1/4-28	
	Grip Length	Size Number	Grip Length	Size Number	Grip Length	Size Number
1/4	0.094	1	0.109	46		
5/16	0.094	2	0.109	47	0.141	92
3/8	0.094	3	0.109	48	0.141	93
7/16	0.094	4	0.109	49	0.141	94
1/2	0.094	5	0.109	50	0.141	95
9/16	0.156	6	0.109	51	0.141	96
5/8	0.219	7	0.188	52	0.141	97
11/16	0.281	8	0.250	53	0.188	98
3/4	0.344	9	0.313	54	0.250	99
13/16	0.406	10	0.375	55	0.313	100
7/8	0.469	11	0.438	56	0.375	101
15/16	0.531	12	0.500	57	0.438	102
1	0.594	13	0.563	58	0.500	103
1 1/16	0.656	14	0.625	59	0.563	104
1 1/8	0.719	15	0.688	60	0.625	105
1 3/16	0.781	16	0.750	61	0.688	106
1 1/4	0.844	17	0.813	62	0.750	107
1 5/16	0.906	18	0.875	63	0.813	108
1 3/8	0.969	19	0.938	64	0.875	109
1 7/16	1.031	20	1.000	65	0.938	110
1 1/2	1.094	21	1.063	66	1.000	111
1 9/16	1.217	22	1.125	67	1.063	112
1 5/8	1.219	23	1.188	68	1.125	113
1 11/16	1.281	24	1.250	69	1.188	114
1 3/4	1.344	25	1.313	70	1.250	115
1 13/16	1.406	26	1.375	71	1.312	116
1 7/8	1.469	27	1.438	72	1.375	117
1 15/16	1.531	28	1.500	73	1.438	118
2	1.594	29	1.563	74	1.500	119

Genuine Aircraft Hardware Co.
Cross Reference Chart
 AN509 to MS24694 Screws

ORDER BY MS24694 NUMBERS

SEE PREVIOUS PAGE FOR PART NUMBER BREAKDOWN

OLD AN509 DASH NUMBER	NEW MS24694 SIZE NUMBER	OLD AN509 DASH NUMBER	NEW MS24694 SIZE NUMBER	OLD AN509 DASH NUMBER	NEW MS24694 SIZE NUMBER
832R 4	1	1032R 4	46	416R 4	NOT AVAILABLE
832R 5	2	1032R 5	47	416R 5	92
832R 6	3	1032R 6	48	416R 6	93
832R 7	4	1032R 7	49	416R 7	94
832R 8	5	1032R 8	50	416R 8	95
832R 9	6	1032R 9	51	416R 9	96
832R 10	7	1032R 10	52	416R 10	97
832R 11	8	1032R 11	53	416R 11	98
832R 12	9	1032R 12	54	416R 12	99
832R 13	10	1032R 13	55	416R 13	100
832R 14	11	1032R 14	56	416R 14	101
832R 15	12	1032R 15	57	416R 15	102
832R 16	13	1032R 16	58	416R 16	103
832R 17	14	1032R 17	59	416R 17	104
832R 18	15	1032R 18	60	416R 18	105
832R 19	16	1032R 19	61	416R 19	106
832R 20	17	1032R 20	62	416R 20	107
832R 21	18	1032R 21	63	416R 21	108
832R 22	19	1032R 22	64	416R 22	109
832R 23	20	1032R 23	65	416R 23	110
832R 24	21	1032R 24	66	416R 24	111
832R 25	22	1032R 25	67	416R 25	112
832R 26	23	1032R 26	68	416R 26	113
832R 27	24	1032R 27	69	416R 27	114
832R 28	25	1032R 28	70	416R 28	115
832R 29	26	1032R 29	71	416R 29	116
832R 30	27	1032R 30	72	416R 30	117
832R 31	28	1032R 31	73	416R 31	118
832R 32	29	1032R 32	74	416R 32	119

Genuine Aircraft Hardware Co.

Alloy Steel, Full Threads

NAS514P Series (Countersunk), NAS600 thru 606 (Pan Head)

TENSILE STRENGTH, 125,000 TO 140,000 PSI. (COUNTERSUNK)

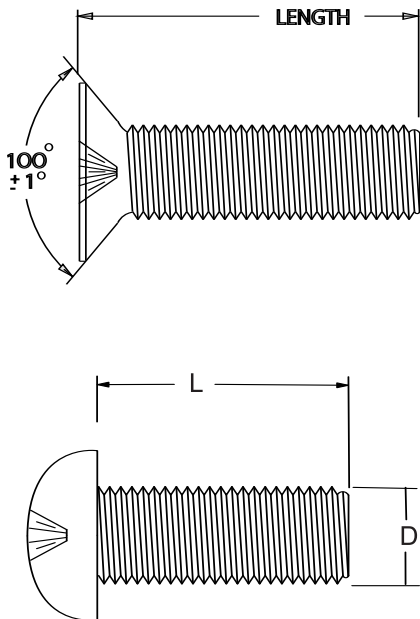
TENSILE STRENGTH, 160,000 TO 180,000 PSI. (PAN HEAD)

These screws are commonly used for general purpose fastening when durability and resistance to wear due to repeated installation and removal might be a problem. Both types are Cad II plated and Phillips drive.

Examples of Part Numbers

NAS603-12P = 10-32 THREADS, 3/4" OVERALL LENGTH UNDER THE PAN HEAD, PHILLIPS DRIVE, ALLOY STEEL, CAD II PLATED

NAS514P832-9P = 8-32 THREADS, 9/16" OVERALL LENGTH INCLUDING THE COUNTERSUNK HEAD, PHILLIPS DRIVE, ALLOY STEEL, CAD II PLATED



Part # GAH-2139
4 way Screwdriver
Small & Handy

Shaded part numbers are
NON STANDARD sizes.

L = (Length)	Dash Number
1/4	4P
5/16	5P
3/8	6P
7/16	7P
1/2	8P
9/16	9P
5/8	10P
11/16	11P
3/4	12P
13/16	13P
7/8	14P
15/16	15P
1"	16P
1 1/16	17P
1 1/8	18P
1 3/16	19P
1 1/4	20P
1 5/16	21P
1 3/8	22P
1 7/16	23P
1 1/2	24P
1 9/16	25P
1 5/8	26P
1 11/16	27P
1 3/4	28P
1 13/16	29P
1 7/8	30P
1 15/16	31P
2"	32P

PAN HEAD	COUNTERSUNK HEAD	THREAD SIZE
NAS600	NAS514P 440-	4-40
NAS601	NAS514P 632-	6-32
NAS602	NAS514P 832-	8-32
NAS603	NAS514P1032-	10-32
NAS604	NAS514P 428-	1/4-28
NAS605	NAS514P 524-	5/16-24
NAS606	NAS514P 624-	3/8-24

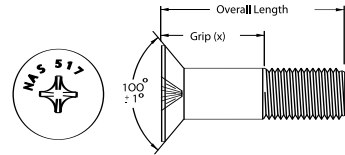
Genuine Aircraft Hardware Co.

NAS517 Series Screws

High Strength Countersunk Screws

Example of Part Numbers:

NAS517-4-9 = 1/4-28 100 degree countersunk, Alloy Steel, (160 - 180Ksi. Tensile)
 .5625 Grip, 1.032 Overall Length, Cadmium II Plated.



Thread Size		8-32	10-32	1/4-28	5/16-24	3/8-24
Shank Dia.		.161 to .164	.186 to .189	.246 to .249	.3085 to .3115	.371 to .374
Part # ->		NAS517-2-(x)	NAS517-3-(x)	NAS517-4-(x)	NAS517-5-(x)	NAS517-6-(x)
Grip Length (x)		Overall Lengths Listed Below				
0.1250	2	0.531	0.531	0.594	0.656	0.750
0.1875	3	0.594	0.594	0.657	0.719	0.813
0.2500	4	0.656	0.656	0.719	0.781	0.875
0.3125	5	0.719	0.719	0.782	0.844	0.938
0.3750	6	0.781	0.781	0.844	0.906	1.000
0.4375	7	0.844	0.844	0.907	0.969	1.063
0.5000	8	0.906	0.906	0.969	1.031	1.125
0.5625	9	0.969	0.969	1.032	1.094	1.188
0.6250	10	1.031	1.031	1.094	1.156	1.250
0.6875	11	1.094	1.094	1.157	1.219	1.313
0.7500	12	1.156	1.156	1.219	1.281	1.375
0.8125	13	1.219	1.219	1.282	1.344	1.438
0.8750	14	1.281	1.281	1.344	1.406	1.500
0.9375	15	1.344	1.344	1.407	1.469	1.563
1.0000	16	1.406	1.406	1.469	1.531	1.625
1.0625	17	1.469	1.469	1.532	1.594	1.688
1.1250	18	1.531	1.531	1.594	1.656	1.750
1.1875	19	1.594	1.594	1.657	1.719	1.813
1.2500	20	1.656	1.656	1.719	1.781	1.875
1.3125	21	1.719	1.719	1.782	1.844	1.938
1.3750	22	1.781	1.781	1.844	1.906	2.000
1.4375	23	1.844	1.844	1.907	1.969	2.063
1.5000	24	1.906	1.906	1.969	2.031	2.125
1.5625	25	1.969	1.969	2.032	2.094	2.188
1.6250	26	2.031	2.031	2.094	2.156	2.250
1.6875	27	2.094	2.094	2.157	2.219	2.313
1.7500	28	2.156	2.156	2.219	2.281	2.375
1.8125	29	2.219	2.219	2.282	2.344	2.438
1.8750	30	2.281	2.281	2.344	2.406	2.500
1.9375	31	2.344	2.344	2.407	2.469	2.563
2.0000	32	2.406	2.406	2.469	2.531	2.625