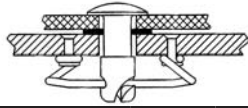


DZUS® FASTENERS

STUD AND SPRING SELECTION TABLES



1. Find total thickness (distance) from underside of stud head to point of spring attachment).
2. Select stud "L" and spring "H" dims.

Size 3 Stud, S3 Spring USE			Size 4 Stud, S4 Spring USE		
Total Thickness	Stud Dim. L	Spring Dim. H	Total Thickness	Stud Dim. L	Spring Dim. H
.045 - .069	-25	-225	.050 - .074	-25	-225
.070 - .094	-25	-200	.075 - .099	-25	-200
.095 - .119	-30	-225	.100 - .124	-30	-225
.120 - .144	-30	-200	.125 - .149	-30	-200
.145 - .169	-30	-175	.150 - .174	-35	-225
.170 - .194	-30	-150	.175 - .199	-35	-200
.195 - .219	-35	-175	.200 - .224	-40	-225
.220 - .224	-35	-150	.225 - .249	-40	-200
.245 - .269	-40	-175	.250 - .274	-45	-225
.270 - .294	-40	-150	.275 - .299	-45	-200
			.300 - .324	-50	-225
			.325 - .344	-50	-200

Size 5 Stud, S5A Spring USE			Size 6 Stud, S6 Spring Size 7 Stud, S7 Spring USE		
Total Thickness	Stud Dim. L	Spring Dim. H	Total Thickness	Stud Dim. L	Spring Dim. H
.055 - .079	-30	-275	.090 - .114	-35	-300
.080 - .104	-30	-225	.115 - .139	-35	-275
.105 - .129	-30	-200	.140 - .164	-35	-300
.130 - .154	-30	-275	.165 - .189	-40	-275
.155 - .179	-40	-250	.190 - .214	-40	-250
.180 - .204	-40	-225	.215 - .239	-40	-225
.205 - .229	-40	-200	.240 - .264	-50	-300
.230 - .254	-40	-275	.265 - .289	-40	-200
.255 - .279	-50	-250	.290 - .314	-50	-275
.280 - .304	-50	-225	.315 - .339	-50	-250
.305 - .329	-50	-200	.340 - .364	-60	-300
.330 - .354	-60	-275	.365 - .389	-60	-275
.355 - .379	-60	-250	.390 - .414	-60	-250
.380 - .404	-60	-225	.415 - .439	-60	-225
.405 - .429	-70	-275	.440 - .464	-70	-300
.430 - .454	-70	-250	.465 - .489	-70	-275
.455 - .479	-70	-225	.490 - .514	-70	-250
.480 - .504	-70	-200	.515 - .539	-70	-225

INSTALLATION TOOLS

Part No.	Description (Installs:)	Price
04-01441	A, AJ3 Oval Head Studs & Grommets	\$47.50
04-01410	A4,AJ4 Oval Head Studs & Grommets	\$47.50
04-01409	A5,AJ5 Oval Head Studs & Grommets	\$49.75
04-01442	A6.5,AJ6.5 Oval Head Studs & Grommets	\$49.85
04-01413	A7, AJ7 Oval Head Studs & Grommets	\$262.95
04-01447	F5, FJ5 Flush Head Studs & Grommets	\$49.75
04-01637	F6.5,FA6.5,FJ6.5 Flush Head Studs & Grommets	\$49.75

* Note: A5 tool is specially designed to install grommets in Bonanza cowlings without removing cowl brackets. This will save you alot of time.

Description	Part No.	Price
Modified C-Clamp (Required and Accepts All Attachment Sets)	12-02272	\$46.50

RETAINING SPRINGS

When there is a gap between the top and bottom panels, a retaining spring is used to hold the stud in locking position for alignment with receptacle.

SNAP RINGS

A snap ring is used when there is not a lot of pull-out load. This ring is expandable easily installed with pliers or screwdriver and takes little space.

Model No.	Part No.	Price ea
1219-24520-SS	SX-520SS	\$0.14
1219-24523-SS	SX-523SS	\$0.12
1219-24510-SS	SX-510SS	\$0.52
1219-24518-SS	SX-518SS	\$0.14
1219-24519-SS	SX-519SS	\$1.40

Model No.	Part No.	Price ea
1219-R3-SS	SR3SS	\$0.29
1219-R4-SS	SR4SS	\$0.23
1219-R5-SS	SR5SS	\$0.19
1219-R6-SS	SR6SS	\$0.29
1219-R7-SS	SR7SS	\$0.10

SPRINGS

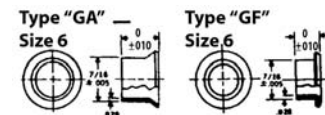


Model No.	Part No.	Price Ea.	Model No.	Part No.	Price Ea.
1219-3150-Z3CT	S3-150	\$1.50	1219-5300-Z3Y	S5A-300	\$1.85
1219-3175-Z3Y	S3-175	\$1.55	1219-6225-Z3Y	S6A-225	\$0.65
1219-3200-Z3Y	S3-200	\$1.52	1219-6250-Z3Y	S6A-250	\$2.88
1219-3225-Z3Y	S3-225	\$1.94	1219-6275-Z3Y	S6A-275	\$2.85
1219-4220-Z3Y	S4-200	\$0.69	1219-6300-Z3Y	S6-300	\$2.95
1219-4225-Z3Y	S4-225	\$0.67	1219-6400-Z3Y	S6A-400	\$1.65
1219-4250-Z3Y	S4-250	\$0.88	1219-6425-Z3Y	S6A-425	\$1.58
1219-A4200-Z3Y	S4A-200	\$0.69	1219-6325-Z3Y	S5A-325	\$2.28
	S5-325-SURP	\$7.50	1219-7225-Z3Y	S7-225	\$1.47
1219-A5200-Z3Y	S5A-200	\$1.25	1219-7250-Z3Y	S7-250	\$6.95
1219-A5225-Z3Y	S5A-225	\$0.89	1219-7275-Z3Y	S7-275	\$2.63
1219-A5250-Z3Y	S5A-250	\$1.12			
1219-A5275-Z3Y	S5A-275	\$1.15			

The dash number represents the height ("H" dimension) of the spring.

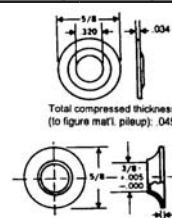
FULL GROMMETS

A full grommet is used when protection of the hole is a definite consideration. It protects panel finish and reduces stud play. A tool is required for installation. The "GA" type full grommet is used with a protruding head stud, and the "GF" type with a flush head stud.



ALUMINUM

Outer Panel Thickness	Type "GA"			Type "GF"		
	Model No.	Part No.	Price	Model No.	Part No.	Price
.015 - .025	1271-3175	GA3-175	\$3.25	---	N/A	---
.026 - .050	1271-200	GA3-200	\$1.84	---	N/A	---
.051 - .094	1271-250	GA3-250	\$1.00	---	N/A	---
.015 - .025	---	GA4-225	---	1276-4125	GF4-125	\$5.70
.026 - .050	1271-4250	GA4-250	\$1.45	1276-4150	GF4-150	\$0.70
.051 - .075	1271-4275	GA4-275	\$1.25	1276-4175	GF4-175	\$3.99
.076 - .100	1271-4300	GA4-300	\$2.25	1276-4200	GF4-200	\$8.50
.031 - .062	1271-5312	GA5-312	\$1.20	1276-5175	GF5-175	\$0.86
.063 - .094	1271-5350	GA5-350	\$0.45	1276-5225	GF5-225	\$0.83
.095 - .125	1271-5375	GA5-375	\$1.64	1276-5250	GF5-250	\$2.45
.040 - .065	1271-6350	GA6-350	\$1.88	---	GF6-218	---
.066 - .100	1271-6375	GA6-375	\$2.20	1276-6250	GF6-250	\$1.90
.101 - .135	1271-6425	GA6-425	\$2.41	---	---	---
.050 - .095	1271-7375	GA7-375	\$3.85	1276-7250	GF7-250	\$5.35
.096 - .156	---	GA7-475	---	---	GF7-325	---
.157 - .218	1271-7525	GA7-525	---	1276-7400	GF7-400	\$5.95



HALF GROMMETS

A half grommet does not break easily, and it flattens but guarantees hold of the stud. It is used when protection of the hole is not a consideration, but protection of panel finish might be. The "GH" type half grommet is installed with a tool; the "GP" type is pushed on by hand.

Type "GP" Thermoplastic			Type "GH" Aluminum		
Model No.	Part No.	Price ea	Model No.	Part No.	Price ea
127P-3B	GP3B	\$0.18	127H-3	GH3	\$0.10
127P-4B	GP4B	\$0.12	127H-4	GH4	---
127P-5B	GP5B	\$0.11	127H-5	GH5	\$0.41
127P-6B	GP6B	\$0.22	127H-6	GH6	\$0.30
127P-7B	GP7B	---	127H-7	GH7	\$1.47

DZUS® FASTENER SPRING ADJUSTER



The MS-7301 tool easily adjusts DZUS® fastener springs for a perfect fit every time. Great for Warbirds and vintage aircraft. Bend springs in or out with a few simple turns. P/N 04-00957.....\$42.75

DZUS® DRIVER

The MS-Driver is a great tool for locking and unlocking DZUS® fasteners. The large handle gives you plenty of torque and is comfortable in the hand. The blade has a radius end to fit fastener slots better than a standard screwdriver and is heat treated steel with zinc plating for long life. P/N 04-00958.....\$18.95

