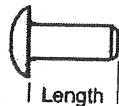


MS20470 Universal Head Solid Rivets

MS20470

Universal Head



Length

Hard 2117 aluminum alloy. Heat treated with a minimum tensile strength of 38,000 PSI. Example of Part #: MS20470AD-3-9 = $\frac{3}{32}$ " diameter, $\frac{9}{16}$ " length, universal head.

Part #	Length	Avg Pcs/ 1/4 lb
--------	--------	--------------------

3/32" Diameter:

MS20470AD-3-2	$\frac{1}{8}$	1394
MS20470AD-3-3	$\frac{3}{16}$	1181
MS20470AD-3-4	$\frac{1}{4}$	959
MS20470AD-3-5	$\frac{5}{16}$	881
MS20470AD-3-6	$\frac{3}{8}$	712
MS20470AD-3-7	$\frac{7}{16}$	701
MS20470AD-3-8	$\frac{1}{2}$	573
MS20470AD-3-9	$\frac{9}{16}$	527
MS20470AD-3-10	$\frac{5}{8}$	474
MS20470AD-3-12	$\frac{5}{8}$	417

1/8" Diameter:

MS20470AD-4-2	$\frac{1}{8}$	727
MS20470AD-4-3	$\frac{3}{16}$	585
MS20470AD-4-4	$\frac{1}{4}$	510
MS20470AD-4-5	$\frac{5}{16}$	440
MS20470AD-4-6	$\frac{3}{8}$	382
MS20470AD-4-7	$\frac{7}{16}$	343
MS20470AD-4-8	$\frac{1}{2}$	307
MS20470AD-4-9	$\frac{9}{16}$	280
MS20470AD-4-10	$\frac{5}{8}$	261
MS20470AD-4-12	$\frac{3}{4}$	220
MS20470AD-4-14	$\frac{7}{8}$	197
MS20470AD-4-16	1	177

5/32" Diameter:

MS20470AD-5-3	$\frac{3}{16}$	330
MS20470AD-5-4	$\frac{1}{4}$	299
MS20470AD-5-5	$\frac{5}{16}$	257
MS20470AD-5-6	$\frac{3}{8}$	228
MS20470AD-5-7	$\frac{7}{16}$	205
MS20470AD-5-8	$\frac{1}{2}$	185
MS20470AD-5-9	$\frac{9}{16}$	173
MS20470AD-5-10	$\frac{5}{8}$	159
MS20470AD-5-12	$\frac{3}{4}$	141
MS20470AD-5-14	$\frac{7}{8}$	121
MS20470AD-5-16	1	110

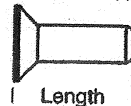
3/16" Diameter:

MS20470AD-6-4	$\frac{1}{4}$	196
MS20470AD-6-5	$\frac{5}{16}$	167
MS20470AD-6-6	$\frac{3}{8}$	148
MS20470AD-6-7	$\frac{7}{16}$	125
MS20470AD-6-8	$\frac{1}{2}$	125
MS20470AD-6-9	$\frac{9}{16}$	119
MS20470AD-6-10	$\frac{5}{8}$	106
MS20470AD-6-12	$\frac{3}{4}$	92
MS20470AD-6-14	$\frac{7}{8}$	84
MS20470AD-6-16	1	75

MS20426 Countersunk Head Solid Rivets

MS20426

100° CSK Head



Length

Hard 2117 aluminum alloy. Heat treated with a minimum tensile strength of 38,000 PSI. Example of Part #: MS20426A D-4-7 = $\frac{1}{8}$ " diameter, $\frac{7}{16}$ " length, 100° countersunk head.

Part #	Length	Avg Pcs/ 1/4 lb
--------	--------	--------------------

3/32" Diameter:

MS20426AD-3-2	$\frac{1}{8}$	2146
MS20426AD-3-3	$\frac{3}{16}$	1595
MS20426AD-3-4	$\frac{1}{4}$	1257
MS20426AD-3-5	$\frac{5}{16}$	1015
MS20426AD-3-6	$\frac{3}{8}$	861
MS20426AD-3-7	$\frac{7}{16}$	771
MS20426AD-3-8	$\frac{1}{2}$	680
MS20426AD-3-9	$\frac{9}{16}$	604
MS20426AD-3-10	$\frac{5}{8}$	534
MS20426AD-3-12	$\frac{5}{8}$	461

1/8" Diameter:

MS20426AD-4-2	$\frac{1}{8}$	1266
MS20426AD-4-3	$\frac{3}{16}$	899
MS20426AD-4-4	$\frac{1}{4}$	694
MS20426AD-4-5	$\frac{5}{16}$	613
MS20426AD-4-6	$\frac{3}{8}$	507
MS20426AD-4-7	$\frac{7}{16}$	429
MS20426AD-4-8	$\frac{1}{2}$	384
MS20426AD-4-9	$\frac{9}{16}$	345
MS20426AD-4-10	$\frac{5}{8}$	285
MS20426AD-4-12	$\frac{3}{4}$	280
MS20426AD-4-14	$\frac{7}{8}$	224
MS20426AD-4-16	1	198

5/32" Diameter:

MS20426AD-5-3	$\frac{3}{16}$	568
MS20426AD-5-4	$\frac{1}{4}$	439
MS20426AD-5-5	$\frac{5}{16}$	356
MS20426AD-5-6	$\frac{3}{8}$	301
MS20426AD-5-7	$\frac{7}{16}$	265
MS20426AD-5-8	$\frac{1}{2}$	233
MS20426AD-5-9	$\frac{9}{16}$	213
MS20426AD-5-10	$\frac{5}{8}$	194
MS20426AD-5-12	$\frac{3}{4}$	164
MS20426AD-5-14	$\frac{7}{8}$	142
MS20426AD-5-16	1	128

3/16" Diameter:

MS20426AD-6-4	$\frac{1}{4}$	287
MS20426AD-6-5	$\frac{5}{16}$	233
MS20426AD-6-6	$\frac{3}{8}$	202
MS20426AD-6-7	$\frac{7}{16}$	189
MS20426AD-6-8	$\frac{1}{2}$	161
MS20426AD-6-9	$\frac{9}{16}$	152
MS20426AD-6-10	$\frac{5}{8}$	130
MS20426AD-6-12	$\frac{3}{4}$	116
MS20426AD-6-14	$\frac{7}{8}$	105
MS20426AD-6-16	1	84



Airplane Exterior Trim Screw & Washer Kits

Stainless steel. These kits do not include any structural screws.

Aircraft Type # of Pieces Trim Kit Part #

BEECHCRAFT

Baron 55	1462	AETS-1
Baron 58/Duke	1620	AETS-2
KingAir	1058	AETS-3
Travelair	995	AETS-4
Bonanza	504	AETS-5
Musketeer/Sport	610	AETS-6
Sundowner	610	AETS-7

BELLANCA

Citabria	352	AETS-8
Scout	492	AETS-9
Viking	210	AETS-10

CESSNA

120-140	485	AETS-C120
150-152	510	AETS-C150
170	510	AETS-C170
172/172 RG Skyhawk	699	AETS-C172
177/177 RG Cardinal	932	AETS-C177
180 - 1953-1962	636	AETS-C180
180 - 1963 On	636	AETS-C180B
182 - 1962-1978	654	AETS-C182
188 Agwagon	826	AETS-C188
206-207 Stationair	683	AETS-C206
208 Caravan	1160	AETS-C208
210 B-F/T210	883	AETS-C210
310 - 1953-1963	1390	AETS-C310-1
310 - 1964-up	1656	AETS-C310-2
335/340	2037	AETS-C335
336/337	1498	AETS-C336
401/402	2300	AETS-C401
411	1450	AETS-C411
414	1450	AETS-C414
421	1615	AETS-C421

GRUMMAN

AA1A/AA1B	617	AETS-11
Ag Cat	610	AETS-12
Cheetah/Tiger	905	AETS-13

PIPER

Aerostar	1417	AETS-14
Apache	1089	AETS-15
Arrow/II/III/IV	632	AETS-16
Aztec	1465	AETS-17
Cherokee 140/160/180/235	598	AETS-18
Cherokee Six/Lance	648	AETS-19
Cheyenne	2855	AETS-20
Comanche (single)	698	AETS-21
Comanche (twin)	1145	AETS-22
Dakota/Saratoga	772	AETS-23
J-3 Cub	389	AETS-24
Malibu	920	AETS-25
Navajo	1934	AETS-26
Pawnee	1977	AETS-27
Seminole	1849	AETS-28
Seneca I & II	1449	AETS-29
Super Cub	426	AETS-30
Tomahawk	643	AETS-31
Tripacer/Colt	415	AETS-32
Warrior/Archer	772	AETS-33

ROCKWELL

112/114	705	AETS-R112
500/520/580	3000	AETS-R500

MOONEY

M20B	1010	AETS-M20B
M20C/D	1475	AETS-M20C
M20E/G	1555	AETS-M20E/G
M20F	1555	AETS-M20F
M201/231	1571	AETS-M201
M252	1119	AETS-M252

MISC AIRCRAFT

Ercoupe	470	AETS-34
Lake Amphibian	405	AETS-35
Multiengine Kit	3000	AETS-MEK
Single Engine Kit	1650	AETS-SEK

Airplane Fuel Tank Screw Kits

Stainless steel.

Kit Aircraft Tanks Years

CESSNA

C150-FT1	150/152	2 Std	59 On
C150-FTLR	150/152	2 LR	70 On
C172-FT1	All 172, R172, XP	2 Std	All
C180-FT1	180	2 Std	53-62
C180-FT2	180/185	2 Std	63-78
C180-FT3	180/185	2 Std	79 On
C182-FT1	182	2 Std	56-61
C182-FT2	182/R & TR	2 Std	62-78
C182-FT2LR	182/R & TR	2 LR	62-78
C182-FT3	182/R & TR	2 Std	79 On
C206-FT1	205/206/207	2 Std	64-78
C206-FT1LR	205/206/207	2 LR	64-78
C210-FY1	210/210A	2 SVLR	59-61
C210-FT2	210B/C/D/F/T210	2 Std	62-66
C210-FT2LR	210B/C/D/F/T210	2 LR	62-66
C210-FT3	210G/H/J/T210	2 Std	67-69
C210-FT4	210K-On/P210	2 Std	70-86
C310-FT1	310K	Aux Tip	56-66
C310-FT2	310L-N	Aux Tip	67-68
C310-FT3	310P-R	Aux Tip	69 On
C340-FT1	335/340	Aux Tip	All
C400-FT1	401/402A/B/421	Aux Tip	All
C402-FT1	402C	All	All
C411-FT1	411	All	All
C414-FT1	414 (No 414A)	All	All
C414-FT2	414A Chancellor	All	All

PIPER

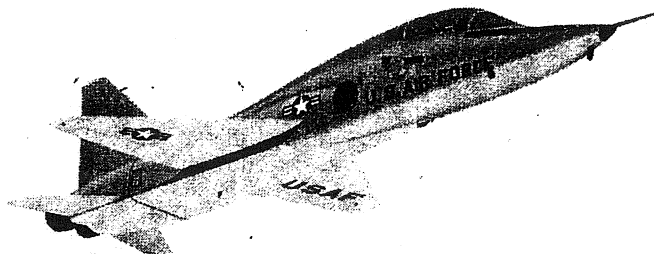
PA28-FT1	140/150/151/152/160		
	180/235/R180/R200	2 Std	All
PA28-FT2	236/201T/R201/R201T		
	RT201/RT201T	2 Std	All
PA32-FT1	260/300/32R/300	4 Std	All
PA32-FT2	301 (Steel Only)	2 Std	All
PA34-FT1	Seneca	All	All
PA34-FT2	Seneca II/III	All	All

Cable Ties

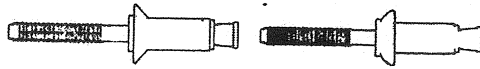
These nylon cable ties are great for holding cables and tubing securely. Strength exceeds military requirements. Easy to use. Handy package of 400 assorted pieces. Hangs on wall for easy access to ties.



Part # CTPAC-B Black
Part # CTPAC-N Natural



CherryMax Aluminum Rivets



CR3212 – 100° Flush

Part # Diameter Grip Range

CR3212-4-2	 1/8	063 - .125
CR3212-4-3	.....	..... .126 - .187
CR3212-4-4	.....	..... .188 - .250
CR3212-4-5	.....	..... .251 - .312
CR3212-4-6	.....	..... .313 - .375

CR3212-5-2	 5/32	065 - .125
CR3212-5-3	.....	..... .126 - .187
CR3212-5-4	.....	..... .188 - .250
CR3212-5-5	.....	..... .251 - .312
CR3212-5-6	.....	..... .313 - .375

CR3213 – Universal

Part # Diameter Grip Range

CR3213-4-1	 1/8	025 - .062
CR3213-4-2	.....	..... .063 - .125
CR3213-4-3	.....	..... .126 - .187
CR3213-4-4	.....	..... .188 - .250
CR3213-4-5	.....	..... .251 - .312
CR3213-4-6	.....	..... .313 - .375

CR3213-5-2	 5/32	065 - .125
CR3213-5-3	.....	..... .126 - .187
CR3213-5-4	.....	..... .188 - .250
CR3213-5-5	.....	..... .251 - .312
CR3213-5-6	.....	..... .313 - .375

CR3242 – Flush Oversize

Part # Diameter Grip Range

CR3242-4-2	 1/8	045 - .125
CR3242-4-3	.....	..... .126 - .187
CR3242-4-4	.....	..... .188 - .250
CR3242-4-5	.....	..... .251 - .312
CR3242-4-6	.....	..... .313 - .375

CR3242-5-2	 5/32	063 - .125
CR3242-5-3	.....	..... .126 - .187
CR3242-5-4	.....	..... .188 - .250
CR3242-5-5	.....	..... .251 - .312
CR3242-5-6	.....	..... .313 - .375

CR3243 – Universal Oversize

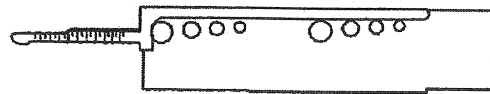
Part # Diameter Grip Range

CR3243-4-1	 1/8	025 - .062
CR3243-4-2	.....	..... .045 - .125
CR3243-4-3	.....	..... .126 - .187
CR3243-4-4	.....	..... .188 - .250
CR3243-4-5	.....	..... .251 - .312
CR3243-4-6	.....	..... .313 - .375

CR3243-5-2	 5/32	063 - .125
CR3243-5-3	.....	..... .126 - .187
CR3243-5-4	.....	..... .188 - .250
CR3243-5-5	.....	..... .251 - .312
CR3243-5-6	.....	..... .313 - .375

CALL FOR OTHER SIZES NOT LISTED HERE

CherryMax Grip Gauge



Measures rivet diameter and length.

Part # CMGG

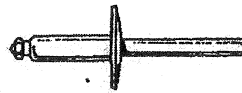
Closed-End Blind Rivets



1/8" diameter. Used to seal tubing vent holes.

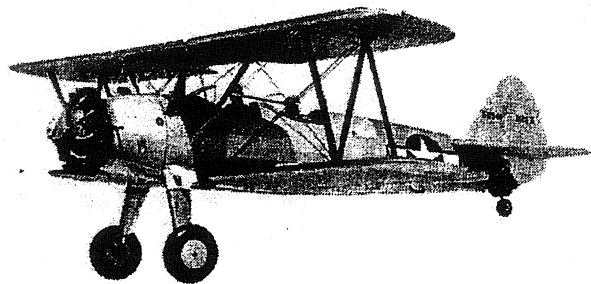
Part # CER-25 .

Fabric Rivets



1/8" diameter with 3/8" diameter head. Stands .016 high. For attaching fabric to ribs.

Part # AFR



C/2 Rivet Tool



A lightweight, heavy-duty rivet tool quality engineered to set rivets 3/32" through 3/16" diameter in one easy

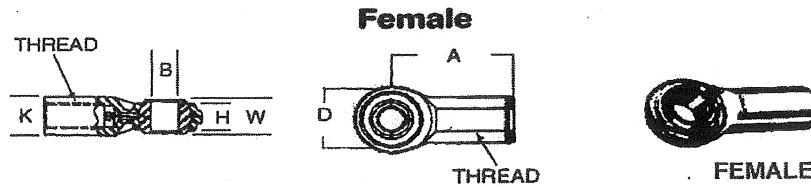
stroke. Allows an exceptionally small hand span and a spring loaded handle that snaps back to the open position when the pressure is released. Equipped with special high-strength jaws and four nose pieces, this tool is excellent for low volume production jobs.

Part # C2

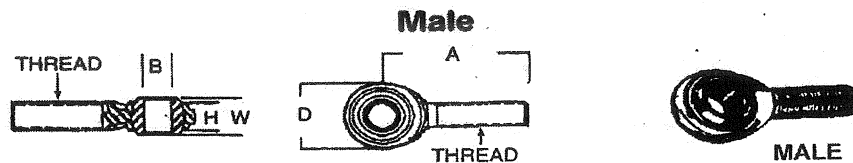
SEE THE TOOL SECTION FOR MORE RIVET TOOLS AND HANDY TOOL KITS.

Aurora Bearings

These are not certified. Supplied without grease fittings. If you need fittings, add Z to part number for Zerk fitting or F for flush fitting. Example: MM6Z or MM6F. *Grease fittings not available.



Thread Size	Head Bore B	Housing Width D	Ball Width H	Width W	Bore Center to End of Shank A	Outside K	Wt	Thread Dir	Part #
6-32	.1250	.500	.187	.250	.812	.312	.019	R	MW2*
6-32	.1250	.500	.187	.250	.812	.312	.019	L	MG2*
10-32	.1900	.625	.250	.312	1.062	.406	.038	R	MW3
10-32	.1900	.625	.250	.312	1.062	.406	.038	L	MG3
1/4-28	.2500	.750	.281	.375	1.312	.468	.059	R	MW4
1/4-28	.2500	.750	.281	.375	1.312	.468	.059	L	MG4
5/16-24	.3125	.875	.344	.437	1.375	.500	.092	R	MW5
5/16-24	.3125	.875	.344	.437	1.375	.500	.092	L	MG5
3/8-24	.3750	1.000	.406	.500	1.625	.687	.152	R	MW6
3/8-24	.3750	1.000	.344	.437	1.625	.500	.152	L	MG6



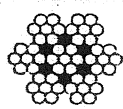
Thread Size	Bore B	Head Width D	Housing Width H	Ball Width W	Bore Center to End of Shank A	Wt.	Thread Direction	Part #
6-32	.1250	.500	.187	.250	.937	.013	R	MM2*
6-32	.1250	.500	.187	.250	.937	.013	L	MB2*
10-32	.1900	.625	.250	.312	1.250	.028	R	MM3
10-32	.1900	.625	.250	.312	1.250	.028	L	MB3
1/4-28	.2500	.750	.281	.375	1.562	.043	R	MM4
1/4-28	.2500	.750	.281	.375	1.562	.043	L	MB4
5/16-24	.3125	.875	.344	.437	1.875	.072	R	MM5
5/16-24	.3125	.875	.344	.437	.188	.072	L	MB5
3/8-24	.3750	1.000	.406	.500	1.938	.112	R	MM6
3/8-24	.3750	1.000	.406	.500	1.938	.112	L	MB6



**YOU CAN FAX YOUR ORDER
TO OUR 24-HOUR FAX LINE.**



Control Cable



7 x 7



7 x 19

7 x 7 Flexible Control Cable has seven strands of seven wires each. For control purposes where extra flexibility is not required, but where abra-

sion is a factor. 7 x 19 Extra Flexible Control Cable has seven strands of 19 wires each. Its greater metallic area makes it stronger than 7 x 7 cable. Meets Mil-83420-E

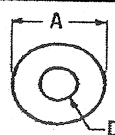
7 x 7

Dia	Galvanized Part #	Per ft	Stainless Part #
1/16	GC1/16-7	.16	SC1/16-7
3/32	GC3/32-7	.21	SC3/32-7
1/8	GC1/8-7	.27	SC1/8-7

7 x 19

Dia	Galvanized Part #	Per ft	Stainless Part #
1/16	-----		SC1/16-19
3/32	GC3/32-19	.43	SC3/32-19
1/8	GC1/8-19	.53	SC1/8-19
5/32	GC5/32-19	.60	SC5/32-19
3/16	GC3/16-19	.70	SC3/16-19
1/4	GC1/4-19	.80	SC1/4-19

AN111 Cable Bushings



Use like AN100 thimbles. Zinc-plated cold-rolled steel.

Part #	Cable Dia
AN111-3	1/16, 3/32
AN111-4	1/8
AN111-5	5/32
AN111-6	3/16

AN115 Cable Shackles (MS20115)



Made of cadmium-plated forged steel.

Part #	Shackle Strength (lbs)	Cable Diameter	Used with: Thimble	Used with: Clevis Pin
AN115-8	800	1/16	AN100-3	AN393-9
AN115-21	2100	1/8, 3/32	AN100-4	AN393-11
AN115-32	3200	5/32	AN100-5	AN394-15
AN115-46	4600	3/16	AN100-6	AN395-17

Nicopress Oval Sleeves

Used to make eyes or lap splices in flexible cable. Sleeves are placed over the two pieces of cable to be fastened and swage. Joints are stronger than a standard splice. Use copper sleeves for galvanized cable and zinc sleeves for stainless steel cable.



Cable Dia	Copper Part #	Copper Each	Zinc-Plated Part #
1/16	18-1-C	.18	28-1-C
3/32	18-2-G	.15	28-2-G
1/8	18-3-M	.25	28-3-M
5/32	18-4-P	.50	28-4-P
3/16	18-6-X	1.30	28-6-X
1/4	18-10-F6	1.40	28-10-F6

Nicopress Stop Sleeves



COPPER

Part #	Cable Diameter
S6005-2	1/16
S6005-3	3/32
S6005-4	1/8
S6005-5	5/32

AN100 Cable Thimbles

Zinc-plated or corrosion-resistant steel. Conforms to MIL-T-5677.



Cable Dia	Zinc Plated Part #	Zinc Plated Each	Stainless Part #
1/16, 5/64	AN100-3	.12	AN100-C3
3/32, 7/64, 1/8	AN100-4	.13	AN100-C4
5/32	AN100-5	.16	AN100-C5
3/16	AN100-6	.23	AN100-C6
1/4	AN100-8	.25	AN100-C8

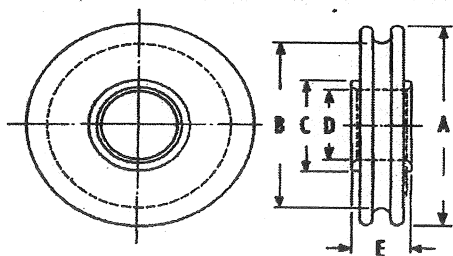
Cable Fairleads

Nylon, two pieces with a retaining clip. Can be installed or removed without removing the cable.



ID	OD	Length	Part #
1/2	3/4	1/2	40701-00
1/4	3/4	3/4	40071-00
		CLIPS	4007C

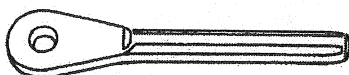
Aircraft Cable Pulleys



Phenolic pulleys, for flight control. All pulleys have anti-friction bearings.

Part #	Cable Size	A Dia	B Dia	C Dia	D (Bore) Dia	E Thick	Allowable Load Limit lb
MS20219-2	1/16, 3/32	1.750	1.438	0.423	0.2500	0.438	480
MS20219-4	1/16, 3/32	2.625	2.312	0.423	0.2500	0.484	920
MS20220-1	1/8, 5/32, 3/16	1.755	1.255	0.465	0.3125	0.625	500
MS20220-2	1/8, 5/32, 3/16	3.005	2.505	0.475	0.3125	0.625	1680
MS20220-3	1/8, 5/32, 3/16	4.255	3.755	0.475	0.3125	0.625	2500
MS20220-4	1/8, 5/32, 3/16	5.505	5.005	0.475	0.3125	0.625	2500
MS24566-1B	1/16, 5/64, 3/32	1.250	0.972	0.625	0.1900	0.297	300
MS24566-2B	1/16, 5/64, 3/32	2.500	2.222	0.777	0.1900	0.297	500
MS24566-3B	1/8, 5/32, 3/16	2.000	1.510	0.901	0.2500	0.484	600
MS24566-4B	1/8, 5/32, 3/16	3.500	3.010	0.901	0.2500	0.484	1200

MS20668 Eye Cable End



Part #	Cable Diameter Inches	Pin Hole Diameter Inches	Minimum Breaking Strength
MS20668-2	1/16	.188	480
MS20668-3	3/32	.188	920
MS20668-4	1/8	.188	2,000

MS20667 Eye Cable End



Part #	Cable Diameter Inches	Pin Hole Diameter Inches	Minimum Breaking Strength
MS20667-2	1/16	.188	480
MS20667-3	3/32	.188	920
MS20667-4	1/8	.188	2,000

Cable Cutter

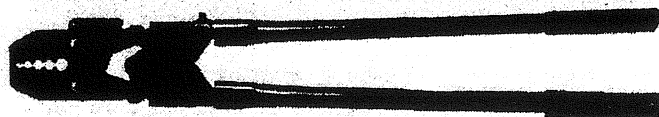


Can cut up to 3/16" cable.

Part # CC316

See Tool Section for other cable tools.

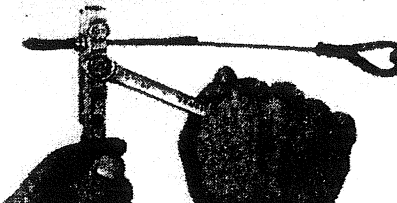
Nicopress Sleeve Swaging Tool



Swage sizes: Ovals 1/16", 3/32", 1/8", 5/32", 3/16"
Stops: 1/16", 3/32", 1/8", 5/32", 3/16", 7/32"

Part # NSST

No. 2 Swaging Tool



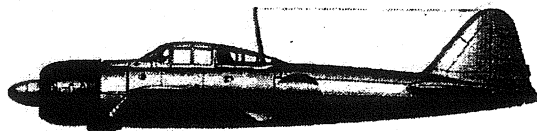
Swage sizes:
1/16"
3/32"
1/8"

Part # ST2

"Swage It" Rigging Kit

The kit includes: the #2 Swaging Tool, max cable cutter that can cut up to 3/16" cable, 1/2" extension wrench, oval sleeves: 10 each - 1/16", 3/32", 1/8"

Part # SIRK





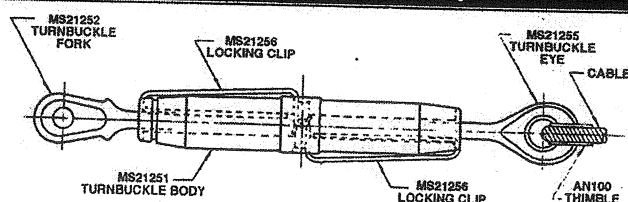
MS21260 Turnbuckle Cable End



With locking slot to accept MS21256 Turnbuckle Clip.

MS21260		Thread Size	Cable Dia Inches	Minimum Breaking Strength
Right Hand	Left Hand			
-S2RH	-S2LH	6-40	1/16	480
-S3RH	-S3LH	10-32	3/32	920
-S4RH	-S4LH	1/4-28	1/8	2,000
-L2RH	-L2LH	6-40	1/16	480
-L3RH	-L3LH	10-32	3/32	920
-L4RH	-L4LH	1/4-28	1/8	2,000

MS21251 Turnbuckle Components



These turnbuckles use locking clips instead of safetying. The turnbuckle barrel and terminals are slotted lengthwise to accept the clips. When the cable tension is reached, the barrel slots are aligned with the terminal slots and the clips are inserted. The curved ends of the clips expand and latch in the vertical slots in the center of the barrel.

Catalog Number	Thread Size	Cable Dia	Description
MS21255-2LS	6-40	1/16	Cable Eye
MS21255-2RS	6-40	1/16	Cable Eye
MS21255-3LS	10-32	3/32	Cable Eye
MS21255-3RS	10-32	3/32	Cable Eye
MS21254-2LS	6-40	1/16	Pin Eye
MS21254-2RS	6-40	1/16	Pin Eye
MS21254-3LS	10-32	3/32	Pin Eye
MS21254-3RS	10-32	3/32	Pin Eye
MS21251-B2S	6-40	-	Barrel-Brass
MS21251-B3S	10-32	-	Barrel-Brass
MS21251-B5L	1/4-28	-	Barrel-Brass
MS21251-B5S	1/4-28	-	Barrel-Brass
MS21252-2LS	6-40	-	Fork
MS21252-2RS	6-40	-	Fork
MS21252-3LS	10-32	-	Fork
MS21252-3RS	10-32	-	Fork
MS21256-1S	-	-	Clip-Short
MS21256-2L	-	-	Clip-Long

MS21259 Stud Cable End



MS21259		Thread Size	Cable Dia Inches	Minimum Breaking Strength
Right Hand	Left Hand			
-2RH	-2LH	6-40	1/16	480
-3RH	-3LH	10-32	3/32	920
-4RH	-4LH	1/4-28	1/8	2,000

MS20664 Ball and Shank Cable End



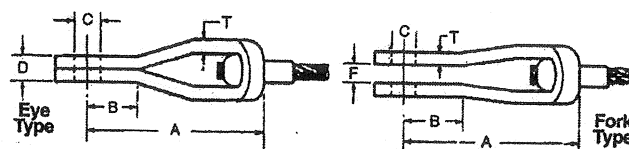
Part #	Cable Dia Inches	Minimum Breaking Strength	Hole Size Inches
MS20664-C2	1/16	400	.073
MS20664-C3	3/32	920	.104
MS20664-C4	1/8	2,000	.139
MS20664-C5	5/32	2,800	.169
MS20664-C6	3/16	4,200	.201

MS20663 Ball and Double Shank



Part #	Cable Dia Inches	Minimum Breaking Strength	Hole Size Inches
MS20663-C2	1/16	480	.073
MS20663-C3	3/32	920	.104
MS20663-C4	1/8	2,000	.139
MS20663-C5	5/32	2,800	.169
MS20663-C6	3/16	4,200	.201

Strap End Cable Ends



Corrosion-resistant steel.

Eye Type:

Part #	Cable	A	B	C	T	D
SP1-2	1/16	1 1/8	.454	.188	.042	.088
SP1-3	3/32	1 1/2	.616	.188	.049	.103
SP1-4	1/8	1 3/4	.638	.188	.093	.190

Fork Type:

Part #	Cable	A	B	C	T	F
SP2-2	1/16	1 1/8	.454	.188	.042	.093
SP2-3	3/32	1 1/2	.616	.188	.049	.108
SP2-4	1/8	1 3/4	.638	.188	.093	.195



MS27976 Clevis Fork Rod End

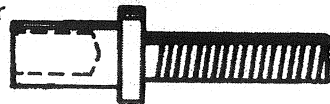


Made of 1035 or 1042 carbon steel, and cad plated. Weld to steel tubing or rivet to aluminum tubing. All sizes fit inside of $\frac{3}{8}$ " OD x .035" wall steel tubing.

Part #	ID	S	W	OD
MS27976-1	.250	.266	.500	.305
MS27976-2	.250	.141	.312	.305
MS27976-3	.188	.266	.500	.305
MS27976-4	.188	.141	.312	.305

AN490 Threaded Rod End

Welding to steel tubing or rivet to aluminum tubing. Heat-treated, cadmium-plated 4130 steel.



Part #	Thread	OD	For Tube
AN490-HT6P	$\frac{1}{4}$ -28	0.305	$\frac{3}{8}$ X .035
AN490-HT8P	$\frac{1}{4}$ -28	0.430	$\frac{1}{2}$ X .035
AN490-HT10P	$\frac{5}{16}$ -24	0.555	$\frac{3}{8}$ X .035
AN490-HT11P	$\frac{5}{16}$ -24	0.680	$\frac{3}{4}$ X .035
AN490-HT15P	$\frac{5}{16}$ -24	0.372	$\frac{1}{2}$ X .058

MS27975 Threaded Clevis Fork Rod End



Made from 1035 or 1042 carbon steel, and cad plated. Internally threaded $\frac{1}{4}$ "-28 to fit threaded $\frac{1}{4}$ " rod.

Part #	Clevis Pin Size	W	S
MS27975-1	$\frac{1}{4}$ "	$\frac{1}{2}$ "	$\frac{17}{64}$ "
MS27975-2	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{9}{64}$ "
MS27975-3	$\frac{3}{16}$ "	$\frac{1}{2}$ "	$\frac{17}{64}$ "
MS27975-4	$\frac{3}{16}$ "	$\frac{5}{16}$ "	$\frac{9}{64}$ "

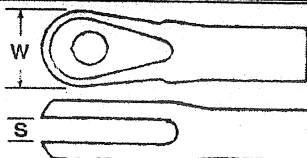
Phenolic Sheet

Grade L, Linen Base. Excellent as an insulator or wear blocks. Outstanding thermal, electrical, chemical, mechanical, and physical properties.

Thick.	12"x12"	12"x24"	24"x24"
Part #	Part #	Part #	Part #
$\frac{1}{16}$ "	PS1162	PS1163	PS1164
$\frac{1}{8}$ "	PS182	PS183	PS184
$\frac{1}{4}$ "	PS142	PS143	PS144

AN665 Threaded Clevis Tie Rod End

Cadmium-plated steel terminals. Left-hand or right-hand threads.



AN665 LH	AN665 RH	Thread Size	S	W	Hole Dia
-10L	-10R	6-40	.109	.250	.190
-21L	-21R	10-32	.150	.313	.190
-34L	-34R	$\frac{1}{4}$ -28	.203	.438	.250
-46L	-46R	$\frac{5}{16}$ -24	.203	.500	.313

MS21919 Cushioned Clamps

Cushioned aluminum clamp are used to clamp tubing and cable conduits. Help prevent abrasion and eliminates vibration.

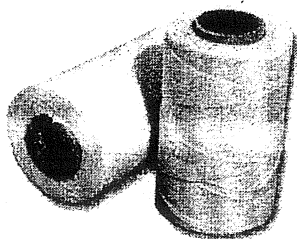


Part #	Tube Dia	Part #	Tube Dia
WDG2	.16	.WDG21	.15 $\frac{1}{16}$
WDG3	.3 $\frac{1}{16}$	.WDG22	.13 $\frac{1}{8}$
WDG4	.14	.WDG23	.17 $\frac{1}{8}$
WDG5	.5 $\frac{1}{16}$	.WDG24	.11 $\frac{1}{2}$
WDG6	.3 $\frac{1}{8}$	.WDG25	.19 $\frac{1}{16}$
WDG7	.7 $\frac{1}{16}$	.WDG26	.15 $\frac{1}{8}$
WDG8	.12	.WDG28	.13 $\frac{1}{4}$
WDG9	.9 $\frac{1}{16}$	.WDG30	.17 $\frac{1}{8}$
WDG10	.5 $\frac{1}{8}$	.WDG31	.115 $\frac{1}{16}$
WDG11	.11 $\frac{1}{16}$	.WDG32	.2
WDG12	.34	.WDG33	.21 $\frac{1}{16}$
WDG13	.13 $\frac{1}{8}$	.WDG34	.21 $\frac{1}{8}$
WDG14	.7 $\frac{1}{8}$	.WDG36	.11 $\frac{1}{4}$
WDG15	.15 $\frac{1}{16}$	.WDG38	.23 $\frac{1}{8}$
WDG16	.1	.WDG40	.21 $\frac{1}{2}$
WDG17	.115 $\frac{1}{16}$	.WDG42	.25 $\frac{1}{8}$
WDG18	.11 $\frac{1}{8}$	.WDG44	.23 $\frac{1}{4}$
WDG19	.13 $\frac{1}{16}$	.WDG46	.27 $\frac{1}{8}$
WDG20	.114	.WDG48	.3



Rib Lacing Cord

Two styles of lacing cord are available, both impregnated with microcrystalline fungicidal wax and packaged 500 yards per spool.



Standard round cord, 4 ply, .035" dia., 60 lb tensile strength.

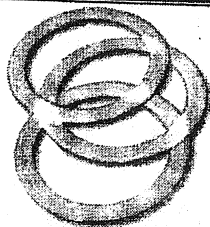
Part # RLC-R

Flat braided cord, .012" thick x approximately .080" width, 50 lb tensile strength. Recommended when the minimum rib cord protrusion is desired.

Part # RLC-F

Inspection Hole Reinforcing Rings

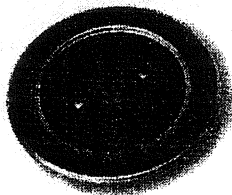
Injection molded from CAB plastic. Beveled edges, 4 3/16" outside diameter x 3 7/16" inside diameter x .035" thick.



Part # IHRR

Inspection Hole Covers

New recessed-center and flanged-edge design will not creep off center due to vibration in prop wash areas 4 1/16" dia., .020" aluminum. Strong 1 1/16" steel spring strap mounted with two 1/8" solid aluminum rivets.



Part # IHC-R

Domed - 4 3/4" diameter.

Part # IHC-D

Sheet Metal Screws

Low profile, slot head, Type A, pointed end. Used on some aircraft models to attach fabric to metal wing ribs and empenage ribs in lieu of rib lacing.



Part # T4x4 4 x 1/4

Part # T4x6 4 x 3/8

UX-825 Urethane Accelerator

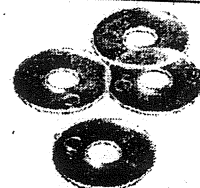
Used in Aero-Thane enamel and urethane varnish to chemically reduce the polymerization time. Refer to directions on the base component listing.



Part # UX825-P Pint

Flat Plastic Drain Grommets

Injection molded from CAB plastic. 7/32" hole x 3/4" outside diameter x .030 thick. Attach with Poly-Tak.



Part # PDG-100'

Seaplane Drain Grommets

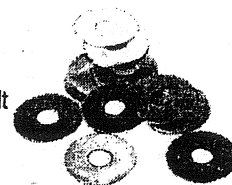
Molded CAB plastic, 1 1/8" outside diameter x .032" skirt with 5/16" x 3/16" lip opening.



Part # SPDG

Aluminum Drain Grommets

1/4" hole x 3/4" outside diameter x .010 thick. The best choice when melting the drain hole thru polyester with a hot probe. Will not melt or curl and warp with age and are reusable. Attach with Poly-Tak.



Part # ADG-100

Closed-End Blind Rivets

1/8" diameter. Used to seal tubing vent holes.



Part # CER-25

Safety Wing Walk

Tough but soft. Long-lasting durable material. Simply peel and stick to any clean dry surface. We recommend using a coating of Pliobond adhesive to help tape adhere better. Available in black only. Embossed products create a perfect non-skid surface. Made in USA.

Part # SWW6

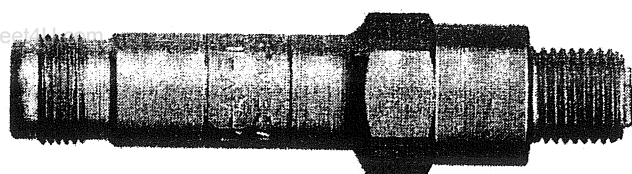
Part # SWW12

Part # SWW24



Read Any Good Spark Plugs Lately?

Here's How to Decode Those Mysterious Spark Plug Numbers.



R H B 37 E

R

RESISTOR

R = Mil-Spec Resistor, Erosion Protection
No Letter = No Resistor

H

BARREL STYLE

H = Shielded 3/4"-20 Thread (All-Weather)
E = Shielded 5/8"-24 Thread
No Letter = Unshielded

B

MOUNTING THREAD

B = 18mm, 13/16" Reach, 7/8" Wrench
M = 18mm, 1/2" Reach, 7/8" Wrench
J = 14mm, 3/8" Reach, 13/16" Wrench
L = 14mm, 1/2" Reach, 13/16" Wrench
U = 18mm, 1 1/8" Reach, 7/8" Wrench

37

HEAT RATING

Low Number = Cold
High Number = Hot

E

ELECTRODE DESIGN

E = Two Electrode Massive
N = Four Electrode Massive
S = Single Electrode (Iridium)
B = Twin Electrodes
R = Push-Wire - 90° to Center
Y = Projected Core Nose
P = Two Electrode (Platinum)
W = Two Electrode (Iridium)
None = Conventional Single

Champion Aviation Spark Plugs

Manufactured under military specification MIL-S-7886B.

Part # REJ38
Part # REL37B
Part # RHB37E
Part # REM37BY
Part # REM38E
Part # RHM38E
Part # REM40E
Part # RHM40E
Part # RHV27E
Part # RHB29E
Part # REB32E
Part # RHB32E
Part # REM38S
Part # RHB32S
Part # RHB36S
Part # RHM38S
Part # REB36S
Part # M674 18mm Solid Copper Gasket
Part # M673 14mm Solid Copper Gasket

Champion Spin-On Oil Filters

Beech single-engine models

E33A, F33A, F33B, F33C -----Use Part # CH48109
V35, S35, V35A, V35B -----Use Part # CH48109

Beech twin-engine models

C55, D55, E55, 58 -----Use Part # CH48109
Baron 58D, 58TC -----Use Part # CH48108

Cessna

150 A thru M -----Use Part # CH48110
152, 172, 172RG, 177, 177RG -----Use Part # CH48110
180, 182, 210, 310, 337 -----Use Part # CH48110

American

AA-1, 1A, 1B, AA1C, AA-5, AA-5A, AA-5B -----Use Part # CH48110

Mooney

M20, M22 -----Use Part # CH48110
M20J-201 -----Use Part # CH48103
M20K-231, M20R, M20K-252TSE -----Use Part # CH48108

Piper

PA-18, PA-22, PA-23, PA-24, PA-25, PA-28,
PA-30, PA-34, PA-60 -----Use Part # CH48110

We will be glad to help find the correct oil filter for your aircraft.

Part # CH48103
Part # CH48104
Part # CH48108
Part # CH48109
Part # CH48110
Part # CH48111