

CATALOG
14

Section H



SPAENNAUR

Fasteners Right Now[®]

CATALOG
14

CATALOG 14

SPAENAUR

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Fittings, Springs & Auto Trim Hardware



Fixations, ressorts et matériel pour garnitures automobiles

Plug Buttons Steel & Brass – Pierced Cap & Screen Ventilator Type	Inch	H2	Pouce	Cache-trous Acier et laiton – boutons percés et à crépine
Air Nozzles & Pneumatic Silencers	Inch	H5	Pouce	Buses d'air et silencieux pneumatiques
Threaded Plugs Magnetic Pipe, Straight Thread, Deep Reach	Inch	H6	Pouce	Bouchons filetés Tuyau aimanté, filets droits, longue portée
Oversize Drain Plugs	Inch	H7	Pouce	Bouchons de vidange surdimensionnés
Pipe Plugs & Metric Adapters Hex Socket & Hex Head	Inch & Metric	H8	Pouce et métrique	Bouchons de tuyaux et adaptateurs métriques Tête à six pans et tête hexagonale
Grease Fittings	Inch & Metric	H11	Pouce et métrique	Embouts de graissage
Compression & Extension Springs	Inch	H16	Pouce	Ressorts de compression et de traction
Steel Wire Plain (Music), High Carbon, Stainless, Galvanized	Inch	H21	Pouce	Fil d'acier Ordinaire (instruments de musique), haute teneur en carbone, inoxydable, galvanisé
Cable Clamps Double Tube, Nylon, 'J', Standard Tube & Half Clips	Inch	H22	Pouce	Colliers pour câbles Tube double, nylon, «J», tube ordinaire et demi-pinces
Wire & Cable Clips – Automotive	Inch	H30	Pouce	Pinces pour fils et câbles - automobiles
Auto Glass Shop Items & Auto Trim Supplies	Inch	H31	Pouce	Articles pour atelier de vitrerie automobile et fournitures de décoration automobile
Dart Clips & Plugs – Automotive	Inch	H32	Pouce	Clips sapins et bouchons – automobile
Automotive Headlamp Screw Assemblies	Inch	H33	Pouce	Ensembles de vis pour phares automobiles
Automotive License Plate Fastener Parts	Inch	H34	Pouce	Pièces de fixation de plaque d'immatriculation
Section Index		H35		Index de section

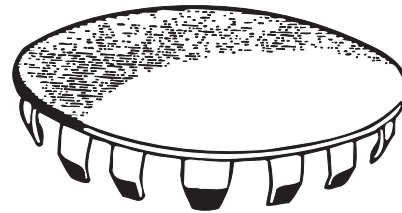




Standard Type

For Round and Square Tubing Type,
Steel Plug Button's - See Page F3

See pages J2 and J3
for Nylon Plug Buttons



BRASS or STEEL snap-in covers for holes in metal, plastics, or fibreboard.

For Use In		O.D. of Plug Button Head	Plug Button Material	Bare Metal		Finished		PKG QTY.
Hole Dia. (Inches)	Approximate Thickness Min.-Max.			SPAENAUR No.	Mfr. No.	SPAENAUR No.	Finish	
1/8	.050-.062	21/64	Brass	—	—	B-1834N	Nickel	100
7/32	.062-.078	11/32	Brass	B-1835	BS-50711	B-1835N	Nickel	100
1/4	.035-.062	13/32	Brass	B-1688PB	D-2587	244-A02-1Y	Nickel	50
1/4	.035-.062	13/32	Steel	B-1725-PS	D-2587	B-1725-N	Nickel	50
9/32	.020-.062	13/32	Steel	243-001	D-2666	243-002	Nickel	100
9/32	.032-.046	13/32	Brass	69-SNPB	BS-50627	69-SN	Nickel	50
9/32	.032-.078	13/32	Steel	B-1836	SS-51071	B-1836N	Nickel	100
5/16	.020-.062	7/16	Brass	B-1689PB	D-5076	B-1689	Nickel	50
5/16	.062-.078	7/16	Steel	B-1833	D-2730	B-1833-N	Nickel	100
21/64	.037-.062	7/16	Brass	—	—	B-1789N	Nickel	50
11/32	.037-.062	1/2	Steel	B-1837	D-4161	B-1837N	Nickel	100
11/32	.093-.125	17/32	Steel	B-1790	SS-48149	B-1790N	Nickel	50
3/8	.037-.078	17/32	Brass	80-SNPB	BS-48192	80-SN	Nickel	50
3/8	.047-.062	1/2	Steel	243-E06-1W	SS-48192	B-1786-N	Nickel	50
3/8	.093-.171	17/32	Steel	—	—	B-1758-N	Nickel	50
13/32	.062-.078	1/2	Steel	B-1691	SS-48182	B-1691-N	Nickel	50
13/32	.078-.094	1/2	Brass	B-1272PB	D-3629	B-1272	Nickel	50
7/16	.032-.062	21/32	Steel	243-003	D-2783	243-004	Nickel	50
7/16	.037-.047	21/32	Brass	B-1723PB	BS-51043	B-1723	Nickel	50
7/16	.037-.047	21/32	Steel	B-1873	SS-51043	B-1873N	Nickel	50
15/32	.083-.125	5/8	Steel	—	—	B-1736-N	Nickel	50
15/32	.125-.156	5/8	Brass	81-SNPB	D-2724	81-SN	Nickel	50
31/64	.125-.156	5/8	Steel	B-1737	HS-51163	B-1737-N	Nickel	50
1/2	.037-.062	21/32	Brass	84-SNPB	BS-48152	84-SN	Nickel	50
1/2	.037-.062	21/32	Steel	B-1793	SS-48152	243-E02-1C	Nickel	50
1/2	.125-.156	5/8	Brass	B-1841	D-5071	B-1841N	Nickel	100
33/64	.037-.062	21/32	Steel	B-1842	SS-50662	B-1842N	Nickel	100
17/32	.050-.062	21/32	Steel	B-1751-PS	SS-51074	B-1751	Nickel	50
17/32	.125-.156	11/16	Steel	B-1273-PS	D-4037	B-1273	Nickel	50
9/16	.046-.093	23/32	Brass	244-005	D-3558-B	244-006	Nickel	50
9/16	.062-.078	23/32	Steel	B-1788	D-3558-S	B-1788-N	Nickel	50
5/8	.062-.078	51/64	Brass	85-SNPB	BS-48172	85-SN	Nickel	50
5/8	.062-.093	13/16	Brass	—	—	244-A03-1C	Nickel	50
5/8	.062-.109	51/64	Steel	243-E05-1K	SS-51142	B-1794-N	Nickel	50
11/16	.032-.093	7/8	Brass	244-001	D-4728	—	—	—
23/32	.078-.093	7/8	Steel	B-1843	SS-51176	B-1843N	Nickel	100
3/4	.037-.093	15/16	Brass	86-SNPB	D-2690	86-SN	Nickel	50
3/4	.037-.093	15/16	Steel	B-1745-PS	SS-51026	B-1745N	Nickel	50
3/4	.078-.109	15/16	Steel	B-1716-PS	D-2690	B-1716	Nickel	50

Continues on Next Page

Inch

Plug Buttons / Steel / Pierced / Ventilator

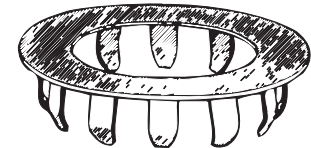
Pouce

Cache-trous / Acier / Percés / Ventilés

Continued from previous page...

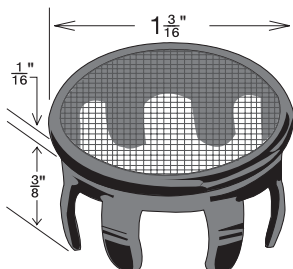
For Use In		O.D. of Plug Button Head	Plug Button Material	Bare Metal		Finished		PKG QTY.
Hole Dia. (Inches)	Approximate Thickness Min.-Max.			SPAENAUR No.	Mfr. No.	SPAENAUR No.	Finish	
13/16	.046-.062	1-1/16	Steel	B-1844	SS-51045	B-1844N	Nickel	100
7/8	.062-.093	1-1/16	Steel	87-SNPS	SS-48155	243-E07-1M	Nickel	50
7/8	.062-.093	1-1/16	Brass	87-SNPB	BS-48155	87-SN	Nickel	50
7/8	.125-.171	1-1/16	Steel	B-1728-PS	D-5393	B-1728-N	Nickel	50
29/32	.031-.062	1	Steel	—	—	B-1757-N	Nickel	50
15/16	.062-.078	1-5/32	Brass	B-1845	BS-51351	B-1845N	Nickel	100
1	.031-.093	1-9/64	Steel	243-007	D-4290	243-008	Nickel	50
1	.031-.093	1-9/64	Brass	244-A04-1N	D-4290	—	Plain	50
1	.062-.078	1-5/32	Brass	—	—	244-A01-1P	Nickel	50
1	.062-.078	1-5/32	Steel	B-1797	SS-48143	B-1797-N	Nickel	50
1	.109-.125	1-5/32	Steel	243-E08-1X	SS-48166	B-1740-N	Nickel	50
1-1/16	.062-.075	1-5/16	Steel	243-E09-1A	SS-51149	B-1815-N	Nickel	50
1-1/8	.036-.078	1-5/16	Steel	B-1556-PS	SS-48174	B-1556	Nickel	50
1-3/16	.031-.093	1-7/16	Steel	B-1846	D-3557	B-1846N	Nickel	50
1-1/4	.062-.093	1-7/16	Steel	—	—	243-E01-1Y	Nickel	50
1-5/16	.037-.062	1-9/16	Steel	B-1770	SS-48162	B-1770N	Nickel	50
1-3/8	.037-.078	1-9/16	Steel	B-1555-PS	SS-51058	B-1555	Nickel	50
1-3/8	.125-.140	1-9/16	Steel	B-1759	SS-48132	B-1759-N	Nickel	50
1-7/16	.125-.156	1-39/64	Steel	B-1742	D-3839	B-1742-N	Nickel	50
1-1/2	.037-.062	1-41/64	Steel	B-893-PS	D-3632	B-893	Nickel	50
1-5/8	.031-.125	1-13/16	Steel	243-005	D-4212	243-006	Nickel	50
1-5/8	.062-.078	1-51/64	Steel	B-1563	SS-50841	B-1563N	Nickel	50
1-3/4	.037-.093	1-15/16	Steel	B-1564	SS-50890	B-1564-N	Nickel	50
1-7/8	.062	2-3/16	Steel	B-1351-PS	D-3933	B-1351	Nickel	10
2	.037-.187	2-5/16	Steel	B-1565	SS-48175	B-1565-N	Nickel	50
2	.037-.062	2-1/4	Steel	B-1941	D-3103	B-1941N	Nickel	50
2-3/32	.046-.062	2-9/16	Steel	B-1771	XS-51171	B-1771N	Nickel	50

PLUG BUTTONS - Pierced Cap Type

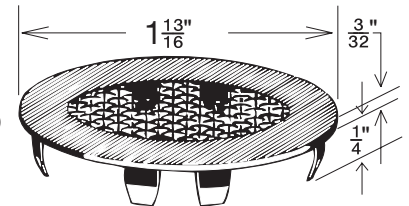


For Use In		O.D. of Plug	Hole Dia. in Cap	Button Material	Bare Metal		Finish		PKG QTY.
Hole Dia. (Inches)	Approximate Thick. Min. - Max.				SPAENAUR No.	Mfr. No.	SPAENAUR No.	Finish	
1-3/8"	.125 - .140"	1-9/16"	1"	Steel	B-1767	SS-51066	B-1767-N	Nickel	50

Screen Ventilator Type



Spaenaur No. B-1630
 STEEL - NICKEL PLATED
 For 1" Dia. Hole
 PKG QTY. 50



Spaenaur No. B-1816N
 STEEL - NICKEL PLATED
 For 1-5/8" Dia. Hole in .062" - .078" Material Thickness.
 PKG QTY. 50

CATALOG 14 SPAENAUR

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

H3

ASSORTMENT
ASSORTIMENT **A-206A**

PLUG BUTTONS

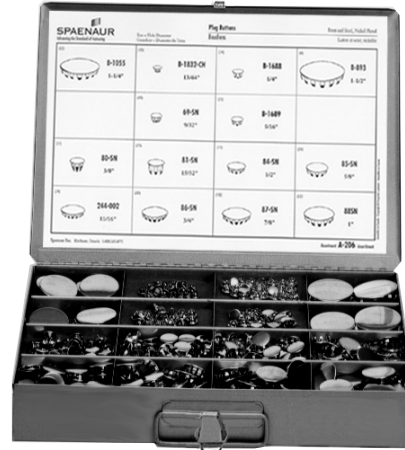
Brass and Steel

Nickel Plated Finish.

14 SIZES - 312 PIECES

Furnished in Regular Size grey enamelled steel drawer with scooped bins for easy access. Drawer will fit into Slide Racks shown on page A2

Shipping Weight: **2.49 kg** (5-1/2 lbs.)



Name	Spaenaur No.	Panel Thickness Range	Compatible Hole Size	Outside Diameter	Qty.	Page
Plug Buttons Standard Type Brass - Coated	B-1689	0.020" - 0.062"	5/16"	7/16"	25	H2
	69-SN	0.032" - 0.046"	9/32"	13/32"		
	244-A02-1Y	0.035" - 0.062"	1/4"			
	84-SN	0.037" - 0.062"	1/2"	21/32"	35	
	80-SN	0.037" - 0.078"	3/8"	17/32"	20	
	86-SN	0.037" - 0.093"	3/4"	15/16"	20	
	B-1835N	0.062" - 0.078"	7/32"	11/32"	30	
	85-SN		5/8"	51/64"	20	
	87-SN	0.062" - 0.093"	7/8"	1-1/16"	15	
	244-A01-1P	0.062" - 0.078"	1"	1-5/32"	12	
243-E01-1Y	0.062" - 0.093"	1-1/4"	1-7/16"			
Plug Buttons - Standard Type - Steel - Coated	B-893	1/32" - 1/16"	1-1/2"	1-41/64"	8	
Plug Buttons - Standard Type - Plain	244-001	1/32" - 3/32"	11/16"	7/8"	20	H2
	81-SN	7/64" - 11/64"	15/32"	5/8"	25	

PLASTIKIT
«**PLASTIKIT**» **804-084**

PLUG BUTTONS

Steel - Nickel Plated

7 SIZES — 56 PLUGS

Furnished in a 1" x 2-3/4" x 4-1/2" handy clear plastic box with hinged lid.



Spaenaur No.	Panel Thickness Range	Compatible Hole Size	Outside Diameter	Qty.	Page
243-E07-1M	0.062" - 0.093"	7/8"	1-1/16"	8	H3
243-004	0.032" - 0.062"	7/16"	21/32"		H2
243-E02-1C	0.037" - 0.062"	1/2"			
B-1786-N	0.037" - 0.078"	3/8"	1/2"		
B-1745N	0.037" - 0.093"	3/4"	15/16"		
B-1797-N	0.062" - 0.093"	1"	1-5/32"		H3
B-1794-N	0.062" - 0.109"	5/8"	51/64"		H2

See pages H2 - H3 for full line of metal Plug Buttons.

See pages J2 and J3 for Nylon Plug Buttons.

High Thrust Air Nozzles Buses d'air à pression élevée

Description

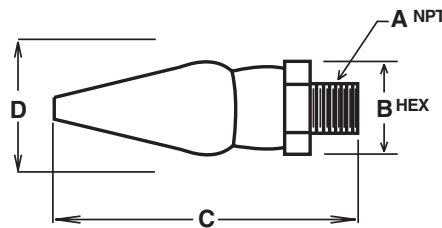
High Thrust Air Nozzles are designed for low noise, high thrust, and maximum efficiency. Low compressed air use saves energy while producing extremely high thrust and back pressure. Outside air is entrained to the extent that the air output is more than 45 times the compressed air input. Noise is reduced as much as 25 dB (A) when compared to a 3 inch long open tube at 120 psi. All units are precision set at the factory and have no moving parts.

Application

Maximum efficiency is provided by Nozzles at pressures up to 150 psig, making them ideal for use in parts ejection conveying, drying, and cleaning operations. (Filter separators are necessary in lines where nozzles are used.) Aluminum construction is strong, yet lightweight, and affords corrosion resistance.

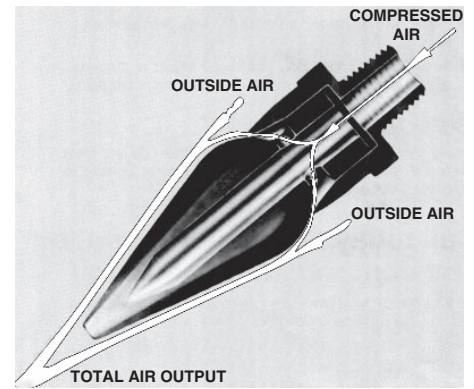
314-505 (1/8" NPT)

Air Entrainment is more than 45 times compressed air input



SPAENAUR No.	A	B	C	D	Weight
314-505	1/8"	11/16"	2-7/16"	.7"	3/4 oz.

PKG QTY. 1



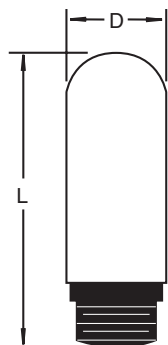
— reduce noise — increase pressure

BACK PRESSURE

As expressed by exhaust time to reduce the pressure in a one cubic foot vessel from 100 psi to 20 psi through a wide open nozzle.	1/8" NPT	24 sec.
	1/4" NPT	17.5 sec.

THRUST

Typical thrust as measured 8 inches from the nozzle on a 6 inch diameter target at 60 psi.	1/8" NPT	5.2 oz.
	1/4" NPT	6.1 oz.



Available
in
Five
Sizes

PKG QTY. 1

SPAENAUR No.	NPT Size	Approximate Dia. L	Approximate Dia. D	Wt. Grams
314-500	1/8"	1-3/8"	5/8"	3
314-501	1/4"	1-5/8"	3/4"	5
314-502	3/8"	2-3/4"	1"	10
314-503	1/2"	2-7/8"	1"	12
314-504	3/4"	5-1/2"	1-1/2"	40

Test Data

Total discharge of 1 ft. tank (120 P.S.I. to 0 P.S.I.)

NPT Size	3" Long Pipe dB(A)	Pneumatic Silencer	Insertion Loss dB(A)
1/8"	119	85	34
1/4"	120	85	35
3/8"	120	88	32
1/2"	118	80	38

Pneumatic Silencers Silencieux pneumatiques

Reduce
Air Noise !

Pneumatic Air Silencers reduce air valve noise in a safe manner, and at a low cost. These silencers are made of Porex, a tough, high-density polyethylene. This porous material allows expanding air to escape at noise levels below OSHA standards, reducing air blast to a whisper. Safety is afforded by resilient plastic which will not shatter. Threaded base is made of solid, high-density polyethylene.

Pneumatic Air Silencers can be used on any equipment discharging air. They operate at pressures up to 150 psi and are designed to fit most air valves. Silencers are easily cleaned with industrial cleaners, and are unaffected by water and oil usually present in air lines.

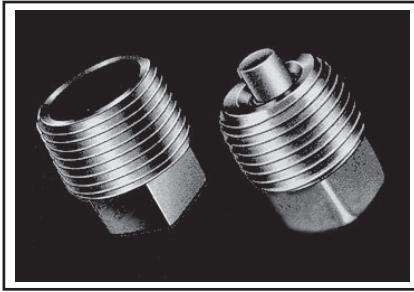
Test Description

For discharge time and sound pressure level tests the silencers were attached to the end of a 1/2 inch diameter pipe, 6 inches long which was attached through a valve to a one cubic foot cylindrical air tank. The tank was charged to 120 P.S.I. and then by suddenly opening the valve was allowed to discharge through the silencer.

Discharge time was measured using a stopwatch and was defined as the time for the tank back pressures to decrease from 100 P.S.I. to 20 P.S.I. Maximum A-weighted sound pressure levels and discharge times were recorded simultaneously for all tests.

Insertion loss is the difference between the noise that is generated by the tank being exhausted through a three inch long pipe and through a silencer having the same NPT size.

PIPE THREAD MAGNETIC PLUGS



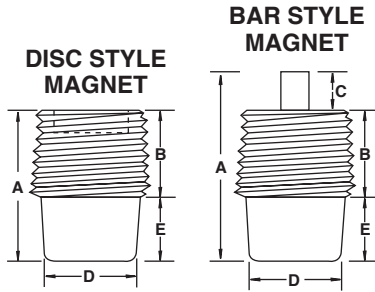
Magnet removes from the circulating oil or hydraulic fluid ferrous particles which might cause damage to the motor or product.

Typical applications:

- cars and trucks
- commercial and military aircraft
- aircraft accessory drives
- road machinery
- farm machinery
- stationary engines
- marine motor & equipment
- hydraulic systems
- industrial machinery and other systems
- air conditioning and refrigeration equipment
- printing presses
- pumps
- gear boxes
- compressors
- mining machinery



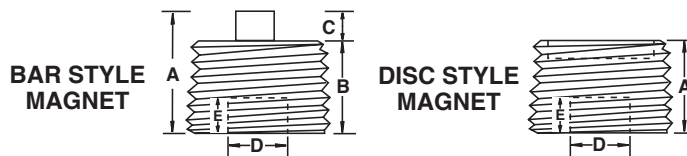
Removed for Inspection and Cleaning



SQUARE HEAD

All Dimensions in Inches PKG QTY. 1

SPAENAUR No.	Pipe Thread	Magnet Style	Magnet Material	A Overall Nominal Length	B Body Length	C Magnet Projection	D Head Size	E Head Depth	Body Material
246-139	1/8"-27 NPTF	Bar	Neodymium	.94	.38	.32	.27	.24	Steel
246-135	1/4"-18 NPTF		Neodymium	1.0	.47	.225	.37	.30	
246-113	3/8"-18 NPTF	Bar	Neodymium	.80	.47	—	.43	.34	Steel
246-136	3/8"-18 NPTF		Neodymium	1.05	.50	.23	.44	.31	
246-A12-1M	1/2"-14 NPTF	Disc	Ceramic I	.96	.57	—	.56	.38	Steel
246-A11-1W	3/4"-14 PTF	Disc	Ceramic I	1.11	.62	—	.62	.45	
246-A16-1Y	1"-11-1/2 NPTF	Disc	Ceramic I	1.33	.75	—	.81	.52	Steel
246-115	1-1/4"-11-1/2 NPTF		Ceramic I	1.37	.81	—	.94	.56	Cast Iron
246-116	1-1/2"-11-1/2 NPTF	Bar	Ceramic I	1.85	.97	.25	1.12	.62	Cast Iron
246-117	2"-11-1/2 NPTF		Ceramic I	1.81	.88	.25	1.37	.68	



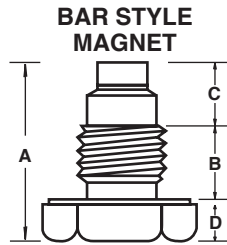
HEX RECESSED

246-132	1/4"-18 NPTF	Bar	Neodymium	.738	.47	.26	.25	.19	Steel
246-A17-1C	3/8"-18 NPTF	Bar	Neodymium	.66	.47	.19	.31	.19	
246-129	3/8"-18 NPTF	Disc	Ceramic I	.52	.46	.06	.31	.19	
246-A09-1W	1/2"-14 NPTF	Bar	Neodymium	.845	.63	.215	.38	.25	
246-130	1/2"-14 NPTF	Disc	Ceramic I	.61	.61	—	.38	.25	
246-A10-1K	3/4"-14 NPTF	Bar	Neodymium	.76	.64	.14	.56	.31	

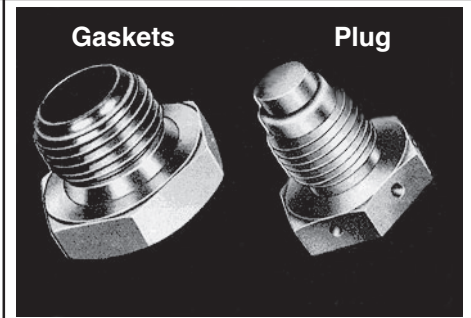
SQUARE RECESSED

246-106	1/2"-14 NPTF	Disc	Ceramic I	.63	.63	—	.38	.25	Steel
246-107	3/4"-14 NPTF	Disc	Ceramic I	.62	.62	—	.51	.31	

STRAIGHT THREAD MAGNETIC PLUGS



CAP SCREW TYPE



Gaskets Only		PKG QTY. 50
SPAENAUR No.	Description	
246-308	Copper-Asbestos for 1/2" Plug	
W-53F	Vulcanized Fibre for 5/8" Plug	
W-57F	Vulcanized Fibre for 3/4" Plug	
Also see page D11 - Flat Fibre Washers		

SPAENAUR No.		Thread Size & Class	Magnet Style	Magnet Material	A Overall Nominal Length	B Thread Length	C Magnet Projection	Hex Across Flats	D Head Thickness	PKG QTY.
Plug & Gasket	Plug Only									
246-140		1/2"-20 UNF3A	Bar	Alnico V	.87	.34	.32	.75	.22	1
246-109	246-209	5/8"-18 UNF2A	Bar	Alnico V	.78	.38	.19	.87	.21	1
246-110A		3/4"-16 UNF2A	Bar	Alnico V	.92	.41	.25	.93	.26	1

Self-tapping



EACH DRAIN PLUG IS SUPPLIED WITH A FIBRE GASKET
CRANKCASE, TRANSMISSION, AND DIFFERENTIAL

SELF-TAPPING OVERSIZE DRAIN AND FILLER PLUGS FOR ALL CARS AND TRUCKS USING 1/2" TO 7/8" PLUGS. PLUGS ARE LOW CARBON STEEL, CASE HARDENED, ZINC PLATED.

This plug provides an efficient means of repair, and eliminates a costly labour charge when threads are stripped. No drills or taps required; simply screw plug into position with socket or end wrench. (Hold plug in a straight position while threading.) Then remove plug and clean metal chips from slots and replace.

OVERSIZE DRAIN PLUGS

(Not Magnetic) INCH SIZES

SPAENAUR No.	UNF Size	Particulars	PKG QTY.
B-1704	1/2"	Regular Oversize	6
B-1705	1/2" O	Double Oversize	6
246-007	1/2" T	Triple Oversize	6
B-1706	5/8"	Regular Oversize	6
B-1707	11/16"	Regular Oversize	6
B-1708	3/4"	Regular Oversize	6
B-1709	7/8"	Regular Oversize	6

N.B. Thread style at time of shipping - our option.

Unbrako TAPER PRESSURE PLUGS

Spaenaur No.	Mfr. No.	Diameter	Thread Pitch / TPI	Thread Type	Taper Per Foot	Material	Finish	PKG QTY
246-A18-1N	117052	1/16"	27	NPTF	3/4"	Alloy Steel	Black Oxide	50
246-A19-1T	102182	1/8"	27	NPTF	3/4"	Stainless Steel	Plain	50
246-A22-1K	107593	1/8"	27	NPTF	7/8"	Alloy Steel	Black Oxide	50
246-A24-1M	138240	1/8"	27	NPTF	7/8"	Alloy Steel	Teflon	50
246-A21-1T	105766	1/4"	27	NPTF	7/8"	Alloy Steel	Black Oxide	50

CATALOG 14.11 SPAENAUR

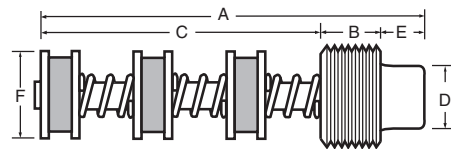
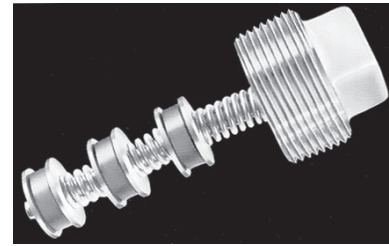


DEEP-REACH ASSEMBLIES

DEEP-REACH ASSEMBLIES are designed to provide magnetic protection for large capacity lube or hydraulic systems. Greater magnetic capability is accomplished by stacking several magnets on a post or inside a thin stainless steel or brass tube. This type of construction projects the chip collection area farther into the system and closer to the areas of chip generation.

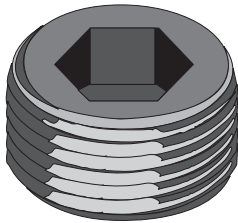
The tube method of construction is used primarily on applications that require frequent inspection and cleaning. The "magnetic tube" is easily wiped off. Spacers between the magnets in the tube concentrate the magnetic fields and increase the holding capacity of the unit.

PKG QTY. 1



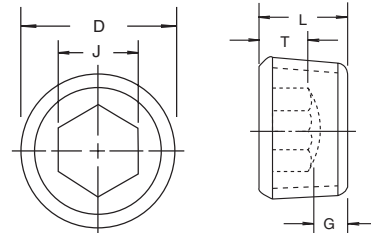
SPAENAUR No.	Thread Size & Class	No. of Magnets Style & Material	A Overall Nominal Length In. (mm)	B Thread Length In. (mm)	C Magnet Projection In. (mm)	D Head Size In. (mm)	E Head Height In. (mm)	F Magnet Assembly Diameter In. (mm)	Body Material
246-211	3/4"-14 NPTF	3-Disc, Ceramic I	4-3/16" (106.3)	5/8" (15.9)	3" (76.2)	5/8" (15.9)	7/16" (11.1)	7/8" (9.7)	Steel
246-212	1"-11-1/2 NPTF	3-Disc, Ceramic I	4-1/4" (108.0)	3/4" (19.1)	3" (76.2)	13/16" (20.6)	17/32" (13.5)	7/8" (9.7)	Cast Iron
246-213	1-1/4"-11-1/2 NPTF	3-Disc, Ceramic I	4-11/32" (110.3)	13/16" (20.6)	3" (76.2)	15/16" (23.8)	17/32" (13.5)	7/8" (9.7)	Cast Iron

H



Hex Socket Pressure Pipe Plugs

Dryseal - NPTF - 3/4" Taper Per Foot
Alloy Steel, Stainless Steel and Brass



* Stainless steel hex socket plugs can be ± 10% on the max. overall length

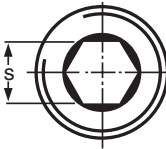
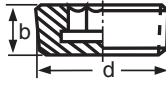
Material	SPAENAUR No.	Nom. Size	D Nom. O.D.	Threads Per Inch	J Hex-Socket Size Nom.	T Key Engagement Min.	G Wall Thickness Min.	L Overall Length			PKG QTY.
								Nom.	*Max.	Min.	
Alloy Steel	246-120	1/16"	.312"	27	5/32"	.140"	.062"	5/16"	.324"	.300"	100
	246-121	1/8"	.405"	27	3/16"	.140"	.062"	5/16"	.324"	.300"	100
	246-122	1/4"	.540"	18	1/4"	.218"	.073	7/16"	.457"	.417"	100
	246-A13-1X	3/8"	.675"	18	5/16"	.250"	.084"	1/2"	.520"	.480"	100
	246-124	1/2"	.840"	14	3/8"	.312"	.095"	9/16"	.583"	.542"	50
	246-125	3/4"	1.050"	14	9/16"	.312"	.125"	5/8"	.645"	.605"	25
	246-126	1"	1.315"	11-1/2	5/8"	.375"	.125"	3/4"	.770"	.730"	10
246-127	1-1/4"	1.660"	11-1/2	3/4"	.437"	.156"	13/16"	.832"	.792"	5	
Stainless Steel	246-A03-1P	1/16"	.312"	27	5/32"	.140"	.062"	17/64"	.324"	.300"	10
	246-805	1/16"	.300"	27	5/32"	.129"	.140"	9/32	.324"	.300"	10
	246-A04-1Y	1/8"	.405"	27	3/16"	.140"	.062"	17/64"	.457"	.417"	10
	246-A05-1C	1/4"	.540"	18	1/4"	.218"	.073	13/32"	.520"	.480"	10
	246-A06-2N	3/8"	.675"	18	5/16"	.250"	.084"	13/32"	.425"	.395"	5
Brass	246-500	1/16"	.312"	27	5/32"	.140"	.062"	19/64"	.310"	.290"	100
	246-501	1/8"	.405"	27	3/16"	.140"	.062"	19/64"	.310"	.290"	10
	246-502	1/4"	.540"	18	1/4"	.218"	.073	15/32"	.475"	.445"	10
	246-503	3/8"	.675"	18	5/16"	.250"	.084"	15/32"	.475"	.445"	10
	246-504	1/2"	.840"	14	3/8"	.312"	.095"	5/8"	.630"	.590"	5

CATALOG 14

SPAENAUR

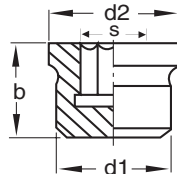
H8

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

**DIN 906****Hexagon
Socket****PIPE PLUG****SHORT TYPE**with **Metric** Fine Tapered Threads
(In accordance with DIN 158)**Plain STEEL**SPAENAUR No. suffix letters indicate:
YZ - Yellow Zinc Plated, ZP - Zinc Plated

DIMENSIONS IN MILLIMETRES

SPAENAUR No.	d Dia. x Pitch	b Thickness	s Width A/F	PKG QTY.
246-220	M8 x 1	8	4	100
246-221	M10 x 1	8	5	100
246-222	M12 x 1.5	10	6	100
246-223	M14 x 1.5	10	7	50
246-224	M16 x 1.5	10	8	50
246-224YZ	M16 x 1.5	10	8	50
246-224ZP	M16 x 1.5	10	8	50
246-225	M18 x 1.5	10	8	25
246-226	M20 x 1.5	10	10	25
246-227	M22 x 1.5	10	10	10
246-228	M24 x 1.5	12	12	10
246-229	M26 x 1.5	12	12	5
246-230	M30 x 1.5	12	17	5
246-231	M36 x 1.5	15	19	5
246-232	R 1/8"	8	5	100
246-233	R 1/4"	10	7	50
246-234	R 3/8"	10	8	25
246-235	R 1/2"	10	10	10
246-236	R 3/4"	12	12	5
246-237	R 1"	12	17	5

Hexagon Socket PIPE PLUG**SHORT TYPE**with **Whitworth** Tapered Threads
(In accordance with DIN 3858)**Plain STEEL**With
Shoulder**DIN 908****Hexagon Socket
SCREW PLUG**with **Parallel Screw Threads****Metric** Fine Thread

(In accordance with DIN 13)

Plain STEEL

(See box at top of page for plating)

DIMENSIONS IN MILLIMETRES

SPAENAUR No.	d1 Dia. x Pitch	d2 Shoulder	b Thickness	s Width A/F	PKG QTY.
246-A01-1X	M8 x 1	12	10	4	100
246-241ZP	M10 x 1	14	11	5	100
246-243	M14 x 1.5	19	15	6	50
246-244YZ	M16 x 1.5	21	15	8	50
246-244ZP	M16 x 1.5	21	15	8	50
246-245	M18 x 1.5	23	16	8	25
246-246ZP	M20 x 1.5	25	18	10	25
246-247	M22 x 1.5	27	18	10	10
246-A14-1A	M24 x 1.5	29	18	12	10
246-249	M26 x 1.5	31	20	12	5
246-A15-1P	M30 x 1.5	36	20	17	5
246-251	M36 x 1.5	42	21	19	5
246-A02-1A	G 1/4"A	18	15	6	50
246-A08-1K	G 1/2"A	26	18	10	10
246-256	G 3/4"A	32	20	12	5
246-257	G 1"A	39	21	17	5
246-258	G 1-1/4"A	49	21	22	5

**Hexagon Socket
SCREW PLUG**with **Parallel Screw Threads****Whitworth** Pipe Thread

(In accordance with DIN ISO 228)

Plain STEEL

DIN 7604 A

A = Short Thread

HEX HEAD PIPE PLUGS

with Shoulder

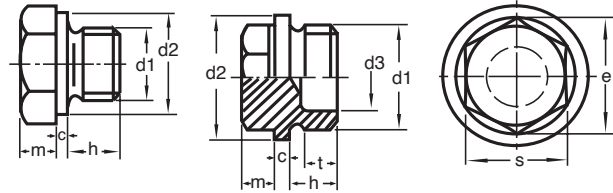
Class 5.8 STEEL, Plain Finish

Parallel Metric Fine Thread

Suffix: ZP = Zinc Plated

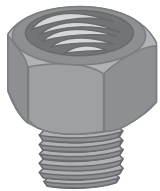
YZ = Yellow Zinc Plated

Metric / Métrique



DIN 7604A Short Thread

SPAENAUR No.	d1 Dia. x Pitch	c	d2	d3	t	h short	m	s	e	PKG QTY.
246-119	M12 x 1.5	1.5	17	—	—	9	6	17	18.9	10
246-119ZP	M12 x 1.5	1.5	17	—	—	9	6	17	18.9	10
246-332	M14 x 1.5	1.5	19	—	—	9	6	19	21.1	1
246-332ZP	M14 x 1.5	1.5	19	—	—	9	6	19	21.1	1
246-333ZP	M16 x 1.5	1.5	21	—	—	9	6	22	24.49	1
246-309ZP	M30 x 1.5	2.5	36	20	10	9	8	22	24.49	1
246-309YZ	M30 x 1.5	2.5	36	20	10	9	8	22	24.49	1

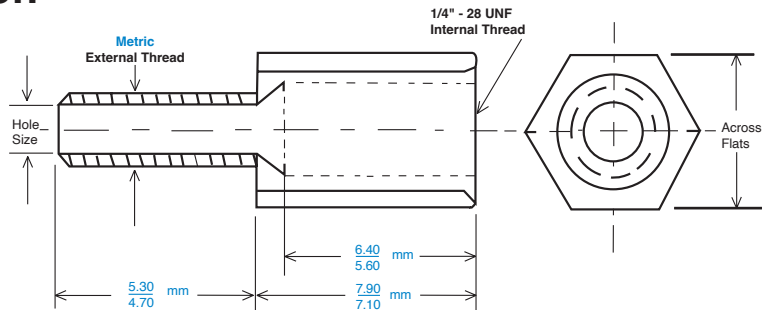


Metric Conversion

Adaptors

STEEL - Zinc Plated

Fit Metric Threads listed below converting them to 1/4" - 28 UNF Standard Internal Thread.



SPAENAUR No.	External Thread Dia. x Pitch	Across Flat (mm)	Stud Hole Size (mm)	PKG QTY.
113-010	M6 x 1.00 mm	9.5 / 8.79	3.00 / 2.90	25
113-011	M8 x 1.00 mm	9.5 / 8.79	3.40 / 3.20	25
113-012	M10 x 1.00 mm	11.15 / 10.95	3.80 / 3.60	25

ASSORTMENT A-202

SELF TAPPING DRAIN & FILLER PLUGS

Steel, Zinc Plated

7 SIZES - 17 PIECES

In a translucent polypropylene box 7" x 3-1/2" x 1-1/4" Shipping Wt. .34 kg (0.75 lbs.)

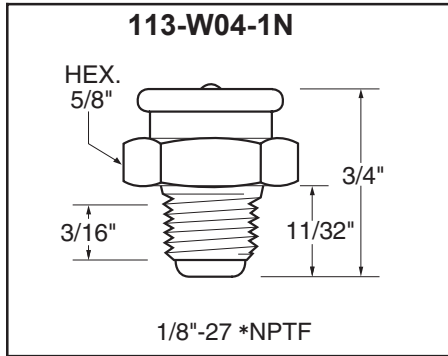


Compatible Thread Size	Spaenaur No.	Qty.
1/2" - 20	B-1704	6
	B-1705	4
	246-007	2
5/8" - 18	B-1706	1
11/16" - 16	B-1707	
3/4" - 16	B-1708	
7/8" - 18	B-1709	

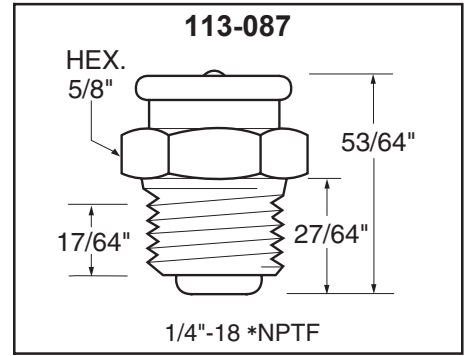
All Fittings on this page are Steel, Zinc Plated.
 More Inch Hydraulic Grease Fittings on pages H12 and H13.

PKG QTY. 10

**STANDARD
 BUTTON HEAD**

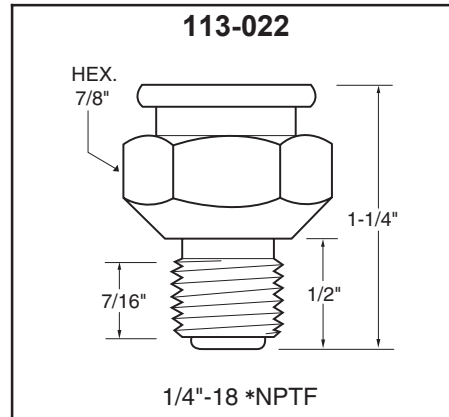


Standard button head lubrication fittings are designed for use where volume flow of lubricant is required. They are used on bearings of earth moving equipment, conveyors, mining machinery and other heavy machinery. The head provides a smooth working surface for easy coupler engagement and removal. The head diameter is 5/8".

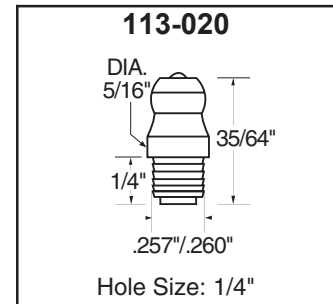
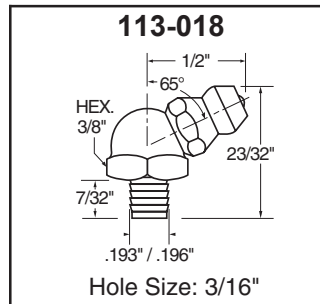
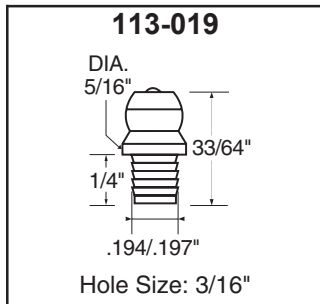


**GIANT
 BUTTON HEAD**

Similar to standard button head, except that the head diameter is bigger (7/8"). The flat smooth top assures a quick coupler attachment and avoids wear and cutting of the coupler washer. Designed for heavy duty usage, on earth moving equipment, construction machinery and generally in all kinds of equipment where long service life and high lubricant flow are important.



DRIVE FITTINGS



Drive type fittings are designed for fast production line installation in untapped holes, to avoid thread tapping costs. The hole sizes and shank dimensions are for reference use only. Test applications should be conducted to determine the correct hole size, which varies

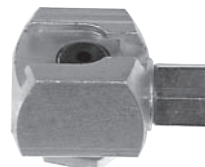
depending on the type and hardness of the metal. They have a serrated shank, which facilitates the substitution of damaged fittings in old or oversize holes. Although they grip securely, they are recommended only for low and medium pressures.

**Push-on Coupler for
 Standard Button Head
 Grease Fitting
 Steel, Zinc Plated**

SPAENAUR No.

113-081

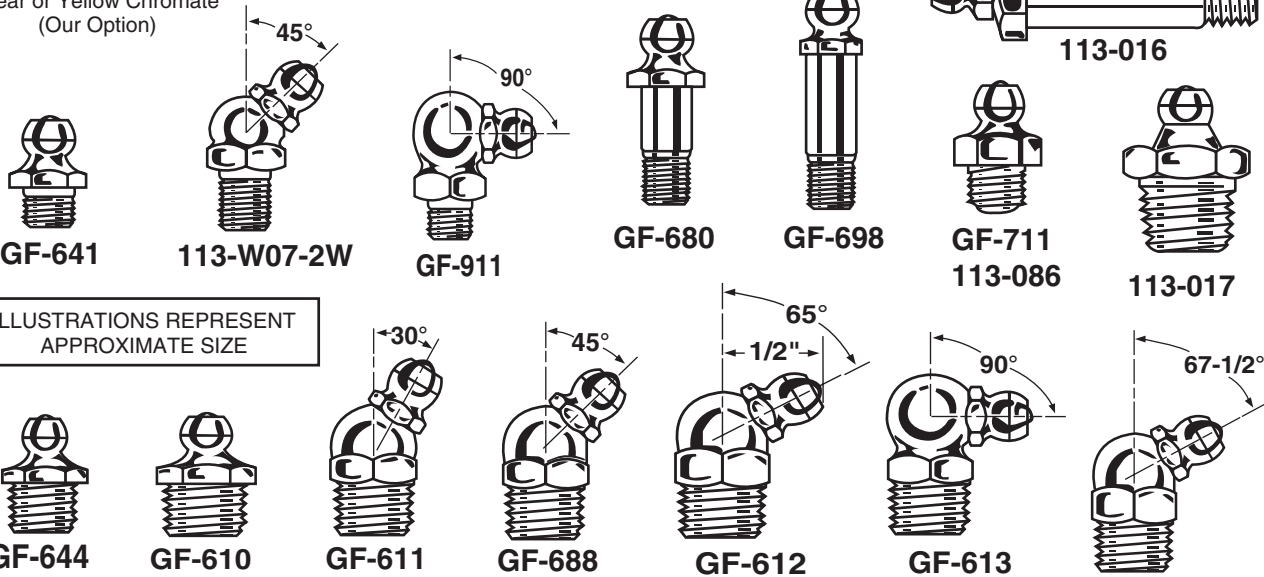
PKG QTY. 1



1/8" *NPTF Thread
 * NPTF = National Pipe Thread Fuel

STEEL Zinc Plated

Clear or Yellow Chromate
(Our Option)



ILLUSTRATIONS REPRESENT APPROXIMATE SIZE

SPAENAUR No.	Thread	Approximate		Comparison Numbers			
		O.A. Lgth.	Hex A/F	Alemite	Lincoln	Aro.	G.M.
113-089	1/4"-28	.56"	5/16"				
GF-641	1/4"-28 N.F. TAPER	35/64"	5/16"	1641-B	5010	6009	5791992
113-W07-2W		57/64"	.354"	1636-B	5212	6012	
GF-911		3/4"	3/8"	1911-B	5410	6013	
GF-680		31/32"	5/16"	1680-B	5014		
GF-698		1-1/8"	.276"	1698-B	5017		
GF-711	5/16"-24 U.N.F.	21/32"	3/8"	1711	5061	6023	
113-086		19/32"	23/64"				
GF-644	1/8" PIPE THREAD	9/16"	7/16"	1644	5005		
113-085		.602"	7/16"				
GF-610		11/16"	7/16"	1610-B	5000	6000	5791988
GF-611		29/32"	7/16"	1611-B	5100	6004	5791989
GF-688		57/64"	7/16"	1688-B	5200	6005	5791993
GF-612		27/32"	7/16"	1612-B	5300	6006	5791990
GF-613		27/32"	7/16"	1613-B	5400	6007	5791994
113-016	1-3/4"	7/16"	1669-B				
**113-W05-1T	1/4" PIPE THREAD	7/8"	9/16"				
**113-017		53/64"	9/16"				
113-015		31/32"	9/16"	1629-B			



876-F08-1W
HYDRAULIC CONNECTOR
(Threaded 1/8" N.P.T.F)
Fits all sizes shown at left.
PKG QTY. 1

Above Grease Fittings - **PKG QTY. 12**

** (Except 113-W05-1T and 113-017 - **PKG QTY. 10**)

ASSORTMENT B-599

INCH Grease Fittings Steel - Zinc Plated
12 SIZES
145 FITTINGS

Furnished in Regular Size grey enamel Steel drawer with scooped bins for easy access. Drawer will fit into Slide Rack shown on page A2.

Shipping Weight **2.85 kg** (6-1/4 lbs.)



External Thread Size	Width Across Flats	Spaenaur No.	Overall Length	Qty.
1/8"-28	7/16"	GF-644	9/16"	15
		GF-610	11/16"	20
		GF-612	27/32"	10
		GF-613		
		GF-688	57/64"	
GF-611	29/32"			
1/4"-28	0.276"	GF-698	1-1/8"	
	5/16"	GF-641	35/64"	25
	0.354"	GF-680	31/32"	10
		113-W07-2W	57/64"	5
5/16"-24	3/8"	GF-911	3/4"	
		GF-711	21/32"	15

CATALOG 14
SPAENAUR

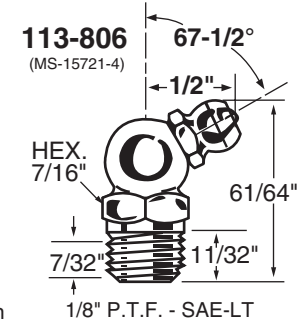
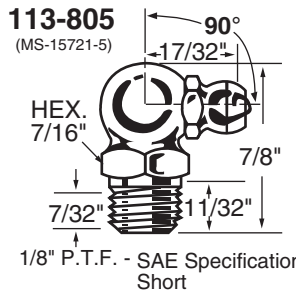
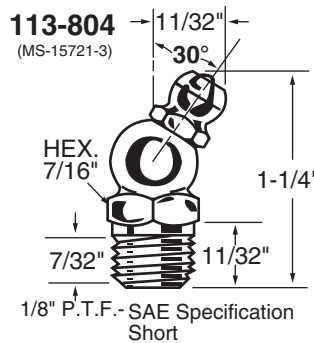
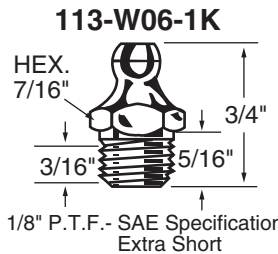
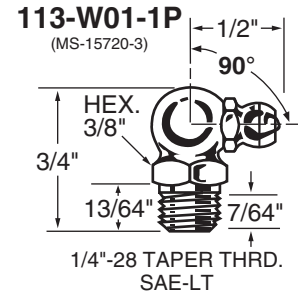
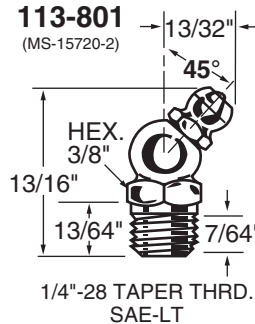
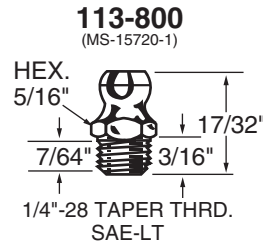
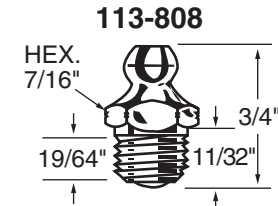
STAINLESS STEEL INCH Grease Fittings

PKG QTY. 10

Material: BODY - Type 303 Stainless Steel
 BALL - Type 404 Stainless Steel
 TEMPERED SPRING —
 Type 302 Stainless Steel

NOTE: SAE-LT - conforms to Society of Automotive Engineers Lubrication Thread Specifications.

ILLUSTRATIONS REPRESENT APPROXIMATE SIZE



INCH GREASE FITTINGS

Each Plastikitt is put up in a clear durable plastic container with hinged lid.
 Size: 1" x 2-3/4" x 4-1/2"



804-079

PLASTIKIT «PLASTIKIT» 804-079

Stainless Steel 7 SIZES 19 GREASE FITTINGS

External Thread Size	External Thread Length	Spaenaur No.	Width Across Flats	Overall Length	Qty.	Page
1/4"-28	7/64"	113-800	5/16"	17/32"	3	H13
		113-W01-1P		3/4"		
		113-801	3/8"	13/16"		
		113-W06-1K		3/4"		
1/8"-27	7/32"	113-805	7/16"	7/8"	2	H12
		113-806		61/64"		
		113-804		1-1/4"		

PLASTIKIT «PLASTIKIT» A-55

Steel - Zinc Plated 9 SIZES 52 GREASE FITTINGS

External Thread Size	Spaenaur No.	Width Across Flats	Overall Length	Qty.	Page
1/8"-28	GF-644	7/16"	9/16"	5	H12
	GF-610		11/16"	15	
	GF-612		27/32"	3	
	GF-613				
1/4"-28	GF-688	5/16"	57/64"	5	H12
	GF-611		29/32"	3	
	GF-641		35/64"	12	
	113-W07-2W		57/64"	3	
GF-911	3/8"	3/4"			

METRIC GREASE FITTINGS

STEEL
Zinc Plated

All Dimensions, except Dia. x Pitch, are nominal.

All Dimensions below in millimetres (except "R" threads).



H1
Straight



H1a
No Threads

SPAENAUR No.	THREAD Dia. x Pitch	WIDTH A/F	THREAD Length	Approx. O/A Lgth.
113-042	M6 x 0.75	7	5.5	15
113-001	M6 x 1.00	7	5.5	15
113-043	M7 x 1.00	9	6	17
113-044	M8 x 0.75	9	5.5	15
113-002	M8 x 1.00	9	5.5	15
113-014	M8 x 1.25	9	5.5	15
113-003	M10 x 1.00	11	5.5	15
113-013	M10 x 1.50	11	5.5	15
113-046	M12 x 1.50	14	6.0	17.5
113-035	R 1/8	11	5.5	15
113-049	R 1/4	14	6.5	19

SPAENAUR No.	THREAD Dia. x Pitch	WIDTH A/F	THREAD Length	Approx. O/A Lgth.
H1 LONG				
113-047	M6 x 1.00	7	5.5	29
H1a DRIVE TYPE with Collar (No Threads)				
SPAENAUR No.	Shank Dia.	Collar Dia.	THREAD Length	Approx. O/A Lgth.
113-064	6 mm	8 mm	5.5	15
113-065	8 mm	10 mm	5.5	15
113-038	10 mm	12 mm	5.5	15

H



H2
45°

SPAENAUR No.	THREAD Dia. x Pitch	WIDTH A/F	THREAD Length	Approx. O/A Lgth.
113-050	M6 x 0.75	9	5.5	20
113-004	M6 x 1.00	9	5.5	20
113-051	M7 x 1.00	9	5.5	25
113-036	M8 x 0.75	9	5.5	20
113-W03-1C	M8 x 1.00	9	5.5	20
113-052	M8 x 1.25	9	5.5	20
113-082	R 1/8	11	5.5	25
113-083	R 1/4	14	6.5	25

SPAENAUR No.	THREAD Dia. x Pitch	WIDTH A/F	THREAD Length	Approx. O/A Lgth.
113-006	M10 x 1.00	11	5.5	25
113-045	M10 x 1.25	11	5.5	20
113-053	M10 x 1.50	11	5.5	20
113-054	M12 x 1.50	14	6.5	24
113-055	R 1/8	11	5.5	25
113-056	R 1/4	14	7	23



H3
90°

SPAENAUR No.	THREAD Dia. x Pitch	WIDTH A/F	THREAD Length	Approx. O/A Lgth.
113-057	M6 x 0.75	9	5.5	18
113-007	M6 x 1.00	9	5.5	18
113-058	M7 x 1.00	9	5.5	18
113-059	M8 x 0.75	9	5.5	18
113-008	M8 x 1.00	9	5.5	18
113-060	M8 x 1.25	9	5.5	18

SPAENAUR No.	THREAD Dia. x Pitch	WIDTH A/F	THREAD Length	Approx. O/A Lgth.
113-009	M10 x 1.00	11	5.5	18
113-037	M10 x 1.50	11	5.5	18
113-061	M12 x 1.50	14	5.5	24
113-062	R 1/8	11	5.5	18
113-063	R 1/4	14	6.5	22

LUBRICATING FITTINGS - Cup Type

STEEL, Zinc Plated



D1
Straight



D1a

SPAENAUR No.	THREAD Dia. x Pitch	WIDTH A/F	SHANK Length	Approx. O/A Lgth.
113-039	M6 x 1.00	7	5.5	8.5
113-066	M8 x 1.00	9	6.5	9.5
113-040	M8 x 1.25	9	6.5	9.5
113-067	M10 x 1.00	11	6.5	9.5

SPAENAUR No.	THREAD Dia. x Pitch	WIDTH A/F	SHANK Length	Approx. O/A Lgth.
D1a DRIVE TYPE with Collar (No Threads)				
	Shank Dia.	Collar Dia.		
113-068	8 mm	10 mm	6.5	9.5

PKG QTY. 10 - ALL ITEMS THIS PAGE

H14

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

Grease Fittings - Button Head

STEEL
Zinc Plated

All Dimensions, except Dia. x Pitch, are nominal.

All Dimensions below in millimetres (except "R" and N.P.T. threads).

PKG QTY. 10



M1

SPAENAUR No.	THREAD Dia. x Pitch	HEAD Dia. A/F	THREAD Length	Approx. O/A Lgth.	SPAENAUR No.	THREAD Dia. x Pitch	HEAD Dia. A/F	THREAD Length	Approx. O/A Lgth.
113-026	M6 x 1.00	16 17	6.0	16.2	113-030	R 1/8	16 17	2.25	16.2
113-027	M8 x 1.00	16 17	5.7	17.5	113-031	R 3/8	16 17	3.50	18.5
113-028	M8 x 1.25	16 17	5.7	17.5	113-032	R 1/8 GAS	16 17	5.70	17.5
113-029	M10 x 1.00	16 17	5.7	17.5	113-041	1/4 N.P.T.	16.5 17	11	22

COUPLINGS for pipe extensions, armoured hoses and piston grease guns.

ILLUSTRATION	SPAENAUR No.	THREAD	DESCRIPTION	For use with Fittings
	113-078	M10 x 1	4 jaw hydraulic coupling	Type H DIN 71412
	113-W02-1Y	M10 x 1	pointed adaptor	Type D DIN 3405
	113-071 113-074	M9 x 1 M10 x 1	universal adaptor	Type K DIN 3402 Type H- DIN 71412
	113-075	M10 x 1	sliding coupling 16 mm Ø	Type M 1 DIN 3404
	113-069	M10 x 1	sliding coupling 22 mm Ø	Type 22 DIN 3404A
	113-076	M10 x 1	sliding coupling 10 mm Ø	Type 10
	113-077	M10 x 1	turning device for sliding couplings	

PKG QTY. 1



Hand Lever Grease Gun

with solid pipe extension

SPAENAUR No. 877-1241 PKG QTY. 1

Thread size M10 x 1.0
Capacity size 500 ccm



Flex-Hose Extension

High pressure rubber hose bursting pressure
(1,650 Bar / 23,900 psi)

SPAENAUR No. 877-1242 PKG QTY. 1
877-1242 M10 x 1.0 – 300 mm long
877-1243 M10 x 1.0 – 500 mm long

ASSORTMENT 805-444

Metric Grease Fittings

Steel - Zinc Plated - Fine Thread

DIN 71412

12 SIZES - 120 PIECES

Comes in a REGULAR SIZE
grey enamelled STEEL
drawer which will fit Slide
Racks shown on page A2

Shipping Weight **2.54 kg** (5.6 lbs.)



PLASTIKIT 804-078

METRIC DIN 71412

Grease Fittings

STEEL - Zinc Plated

11 SIZES - 77 PIECES

Styles H1, H2 and H3

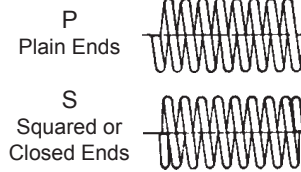


For the complete assortment contents turn to **A108**

STEEL

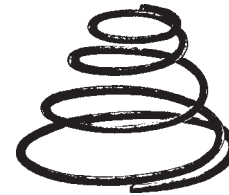
A compression spring is an open-coil helical spring that offers resistance to a compressive force applied axially. Compression springs are usually coiled as a constant-diameter cylinder.

COMPRESSION SPRINGS - IN STOCK LENGTHS TO CUT AS REQUIRED



SPAENAUR No.	SPECIFICATIONS						PKG QTY.
	Outside Dia.	Length Overall	Gauge of Wire	Coils per Inch	Style of Ends	Finish	
610-035	11/64"	11"	.026"	19.5	P	Bl. Japan	10
B-618	7/32"	11-1/2"	.041"	12	S	Zinc	10
610-034	15/64"	11"	.032"	14.6	P	Bl. Japan	10
610-A01-1X	5/16"	11-1/2"	.047"	10	S	Zinc	10
610-017	3/8"	10"	.047"	8	S	Plain	10
610-017ZP	3/8"	10"	.047"	8	S	Zinc	10
B-620	3/8"	11-1/2"	.047"	8	S	Bl. Japan	10
610-029	7/16"	11"	.080"	8	P	Bl. Japan	10
610-033	15/32"	11"	.062"	7.3	P	Bl. Japan	10
B-621	1/2"	11-1/2"	.062"	6	S	Zinc	10
610-032	9/16"	11"	.062"	5.5	P	Bl. Japan	10
610-026	9/16"	11"	.092"	6.3	P	Bl. Japan	10
610-031	5/8"	11"	.062"	4.8	P	Bl. Japan	10
B-623	5/8"	10"	.062"	6	S	Zinc	10
610-047	5/8"	10"	.080"	6	S	Zinc	10
B-624	11/16"	10"	.062"	3.5	S	Zinc	10
610-025	11/16"	11"	.092"	5	P	Bl. Japan	10
610-030	23/32"	11"	.062"	3.8	P	Bl. Japan	10
610-022	47/64"	11"	.105"	4.7	P	Bl. Japan	10
610-A02-1A	3/4"	10"	.091"	3.5	S	Zinc	10
610-028	27/32"	11"	.080"	3.5	P	Bl. Japan	10
B-626	7/8"	10"	.080"	3	S	Galvanized	10
610-024	7/8"	11"	.092"	3.5	P	Bl. Japan	10
610-021	7/8"	11"	.105"	3.8	P	Bl. Japan	10
610-027	31/32"	11"	.080"	2.8	P	Bl. Japan	10
610-020	1-1/16"	11"	.120"	3	P	Bl. Japan	10
610-A04-1Y	1-3/16"	11"	.092"	2.2	P	Bl. Japan	10
610-019	1-3/16"	11"	.120"	2.5	P	Bl. Japan	10

CONICAL SPRING		
	B-662	1267
	Zinc Plated	Plain
Gauge:	.065"	.092"
Height:	1-1/4"	1-1/2"
Base O.D.:	1-5/8"	1-13/16"



PKG QTY. 25

■ Wire ends may not be galvanized

EXTENSION SPRINGS

UNIVERSAL STYLE



(With Extended Ends)

SPAENAUR No.	Outside Dia.	Length Overall	Length of Coil	Gauge of Wire	Finish	PKG QTY.
B-694	9/32"	6"	1-7/8"	.054"	Zinc	10
B-650	3/8"	5"	9/16"	.041"	Black	10
B-651	7/16"	6"	1-1/16"	.054"	Black	10
B-652	7/16"	9-1/2"	3-1/4"	.047"	Black	10
B-654	1/2"	9-1/4"	3-1/4"	.047"	Black	10
610-009	35/64"	7-1/4"	1-3/8"	.062"	Black	10
B-653	9/16"	7-1/4"	1-1/4"	.062"	Black	10
B-655	9/16"	9-1/4"	3-1/4"	.054"	Black	10

Cut ends to required length and Hook to suit individual applications.

EXTENSION SPRINGS



Plain ends, without hooks or loops.

610-046	1/4"	11"	—	.020"	Black	10
610-045	1/4"	11"	—	.026"	Black	10
610-043	1/4"	11"	—	.032"	Black	10
610-044	5/16"	11"	—	.026"	Black	10
610-042	5/16"	11"	—	.032"	Black	10
610-041	3/8"	11"	—	.032"	Black	10
610-040	5/8"	11"	—	.062"	Black	10
610-037	3/4"	11"	—	.105"	Black	10
610-038	1"	11"	—	.092"	Black	10
610-036	1"	11"	—	.105"	Black	10

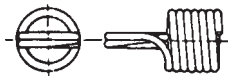
Extension springs are springs which absorb and store energy by offering resistance to a pull-force. Various types of ends are used to attach the extension spring to the source of the force.

STEEL INCH Sizes	SPAENAUR No.	SPECIFICATIONS					PKG QTY.
		Outside Dia.	Length Overall	Gauge of Wire	End Loops	Finish	
	B-659	3/32"	1/2"	.014"	SC	Brt. Zinc	25
	B-660	1/8"	5/8"	.018"	SC	Brt. Zinc	25
	B-665	5/32"	1-5/16"	.018"	SSL	Brt. Zinc	25
	■ 610-002	5/32"	4-9/32"	.018"	SC	Brt. Zinc	10
	SP-1	5/32"	84"	.035"	HC,SC	Plain	10
	B-656	3/16"	1"	.022"	SC	Brt. Zinc	25
	B-603	3/16"	7-1/4"	.025"	DS	Black	10
	B-664	7/32"	1-1/4"	.028"	SSL	Brt. Zinc	25
	B-667	7/32"	2"	.025"	SSL	Brt. Zinc	25
	610-A07-1T	7/32"	9"	.031"	DS	Black	10
	610-A09-1W	1/4"	1"	.022"	SC	Brt. Zinc	25
	B-693	1/4"	2-1/2"	.024"	SC,SS	Brt. Zinc	25
	610-A08-1K	1/4"	1-13/16"	.025"	SC	Plain	25
	B-605	1/4"	5-3/4"	.025"	DC	Black	10
	SP-10	9/32"	1"	.031"	SC	Plain	25
	B-606	9/32"	5-1/4"	.042"	DC	Black	10
	B-607	9/32"	6-5/8"	.034"	DC	Black	10
	B-666	5/16"	1-9/32"	.023"	SSL	Brt. Zinc	25
	B-608	5/16"	6-3/4"	.047"	DC	Black	10
	B-610	11/32"	5-1/2"	.047"	DC	Black	10
	B-609	11/32"	8 3/8"	.047"	DC	Black	10
	B-611	3/8"	1-5/8"	.054"	SC	Brt. Zinc	10
	B-612	3/8"	10"	.054"	DC	Black	10
	B-675	13/32"	3-13/16"	.047"	SS	Brt. Zinc	10
	B-695	7/16"	2"	.041"	SS	Black	25
	B-614	7/16"	5-3/8"	.062"	DC	Black	10
	B-615	7/16"	6-3/8"	.047"	DC	Zinc	10
	B-627	7/16"	9"	.062"	DC	Black	10
		B-671	1/2"	2"	.058"	HC	Plain
B-672		1/2"	3"	.058"	HC	Plain	100
610-001		5/8"	2-1/4"	.072"	SC	Plain Steel	50
	B-668	1/2"	2"	.072"	HC	Plain	100
	B-669	1/2"	3"	.072"	HC	Plain	100
	B-670	1/2"	4"	.072"	HC	Plain	100
	B-616	1/2"	4-7/8"	.072"	DC	Zinc	10
	B-661	1/2"	5-1/2"	.047"	SS	Plain	10
	B-689	1/2"	6"	.062"	HC	Plain	10
	610-052	1/2"	3"	.072"	SC	Plain	10
	B-698	9/16"	1-5/8"	.062"	HC	Brt. Zinc	25
	610-A06-1N	9/16"	3-3/4"	.062"	SC	Plain	10
	B-617	9/16"	5-1/4"	.080"	DC	Black	10
	B-600	9/16"	9"	.080"	DC	Zinc	10
	B-690	5/8"	3"	.080"	DC	Plain	25
	B-601	5/8"	9"	.080"	DC	Black	10
	B-684	23/32"	16"	.109"	SS	Brt. Zinc	10
B-602	13/16"	9"	.080"	DC	Black	10	

Table continues on next page...



SC Single Loop Centred



DC Double Loop Centred



SS Single Loop on Side
DS Double Loop on Side

SSL Single Loop on Side at Inward Angle of 45 °

HC Hook, Centred.

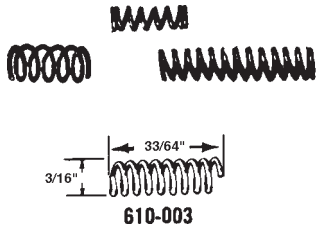
■ 610-002 (Actual Size)



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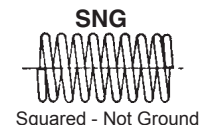
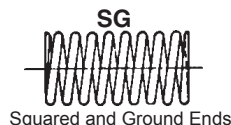
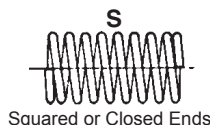
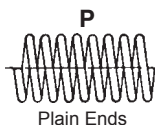
**STEEL
INCH SIZES**

- ▲ 302 Stainless Steel
- Wire ends may not be galvanized



SPAENAUR No.	SPECIFICATIONS						PKG QTY.
	Outside Dia.	Length Overall	Gauge of Wire	Total Coils	Style of Ends	Finish	
B-648	1/8"	5/16"	.015"	5	S	Br. Zinc	25
610-051	.128/.133"	.360/.340	.014"	12	SG	Plain	25
610-050	.140/.147"	.740/.700	.016"	20	SG	Plain	25
610-053	3/16"	3/8"	.032"	5	S	Black Oxide	25
610-014	3/16"	7/16"	.032"	6	S	Plain	50
610-003	3/16"	33/64"	.029"	9	P	Plain	25
B-643	7/32"	11/16"	.032"	7	S	Br. Zinc	25
B-681	7/32"	1-3/32"	.013"	25	S	Br. Zinc	25
B-647	7/32"	2-3/8"	.016"	22	S	Br. Zinc	25
B-677	.220"	13/16"	.025"	10-1/4	S	Br. Zinc	25
▲ SP-2000	1/4"	3/8"	.025"	5	SG	302 S. Stl.	25
B-682	1/4"	3/8"	.032"	5	S	Br. Zinc	50
■ B-646	1/4"	3/4"	.018"	8	S	Galvanized	25
B-679	1/4"	15/16"	.015"	13	S	Br. Zinc	25
B-678	1/4"	1"	.013"	11	S	Br. Zinc	25
B-645	1/4"	1-1/2"	.032"	18	S	Br. Zinc	25
B-687	9/32"	1-1/16"	.032"	10	SG	Br. Zinc	50
B-642	9/32"	1-5/8"	.034"	16	S	Br. Zinc	25
B-644	9/32"	1-7/8"	.028"	14	S	Br. Zinc	25
B-640	11/32"	5/8"	.028"	4-1/2	S	Br. Zinc	25
■ 610-054	11/32"	11/16"	.016"	5	S	Galvanized	25
SP-7	11/32"	1-7/32"	.047"	10	SG	Br. Zinc	25
B-685	3/8"	7/8"	.062"	6	SG	Br. Zinc	50
B-639	3/8"	1-7/8"	.034"	16	S	Br. Zinc	25
B-686	25/64"	1-7/32"	.035"	9	SG	Br. Zinc	25
110-027	.400"	.700"	.040"	7	S	Br. Zinc	100
B-638	13/32"	1-1/2"	.047"	10-1/2	S	Br. Zinc	25
B-692	13/32"	1-17/32"	.035"	9	SG	Br. Zinc	25
▲ 610-A05-1K	27/64"	1"	.039"	7	SG	302 S. Stl.	25
B-637	7/16"	3/4"	.047"	5-1/2	S	Br. Zinc	25
B-696	7/16"	15/16"	.054"	7-3/4	S	Br. Zinc	25
B-636	7/16"	2-1/4"	.062"	14	SG	Br. Zinc	10
610-A03-1P	7/16"	2-1/2"	.035"	18	S	Plain	25
610-018	7/16"	7-3/4"	.054"	48-1/4	S	Br. Zinc	10
B-674	15/32"	1"	.047"	8	S	Br. Zinc	10
B-697	15/32"	1-1/2"	.062"	8	SG	Br. Zinc	25
▲ SP-2001	.480"	1"	.055"	5	S	302 S. Stl.	25
110-031	.490"	.720"	.062"	6-3/4	S	Br. Zinc	100
B-634	1/2"	7/8"	.047"	5	S	Br. Zinc	25
B-635	1/2"	3-1/8"	.041"	22	S	Br. Zinc	10
B-691	17/32"	4"	.072"	28	SG	Plain	25
SP-6	35/64"	7/8"	.105"	6	SG	Plain	10
610-A10-1K	19/32"	9/16"	.054"	3-1/2	S	Br. Zinc	25
B-680	5/8"	1-3/8"	.062"	7-1/2	S	Br. Zinc	25
B-663	5/8"	1-3/8"	.100"	7	S	Br. Zinc	10
B-632	5/8"	2"	.105"	10	SG	Br. Zinc	25
B-622	5/8"	3"	.080"	15	SG	Br. Zinc	10
B-631	11/16"	27/32"	.054"	5	S	Br. Zinc	25
610-048	11/16"	2"	.092	10	SG	Br. Zinc	25
610-016	.707"	1"	.041"	5	SNG	Plain	25
▲ B-688	.720"	2"	.067"	8	SG	302 S. Stl.	10
610-015	.733"	1"	.054"	5	SNG	Plain	25
610-A11-1W	3/4"	13/16"	.1875"	3	SG	Plain	10
B-630	7/8"	2"	.054"	7	SG	Br. Zinc	10
B-629	1"	1-15/16"	.062"	6-1/4	S	Br. Zinc	10
B-628	1-3/32"	1-1/2"	.054"	7	SG	Br. Zinc	10

CODE EXPLAINING STYLE OF ENDS



ASSORTMENT B-550-M-A

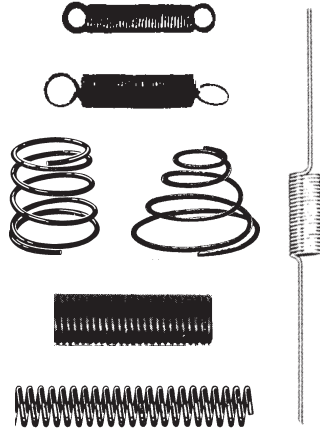
EXTENSION & COMPRESSION SPRINGS

STEEL - Black & Zinc Finish

57 SIZES - 264 PIECES

LARGE SIZE Welded STEEL Drawer
Furnished in strong metal case, with hinged lid,
and finished in green enamel.

Shipping Weight **5.10 kg** (11-1/4 lbs.)



For the complete assortment contents turn to A109

ASSORTMENT 805-632A

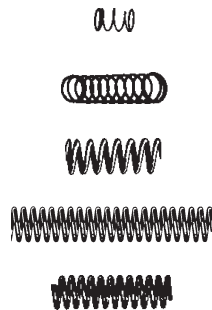
COMPRESSION SPRINGS

Steel - Zinc Plated

30 SIZES - 435 PIECES

Put up in a LARGE SIZE grey enamelled Steel
Drawer, with hinged lid and "Adjusta-bins." Drawer
will fit into our Slide Racks, as shown on page A3

Shipping Weight **6.24 kg** (13.75 lbs.)



ASSORTMENT 805-633

EXTENSION SPRINGS

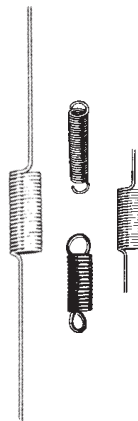
Steel - Black & Zinc Finish

29 Sizes - 268 Pieces

Put up in a LARGE SIZE grey enamelled Steel
Drawer, with hinged lid and "Adjusta-bins."

Drawer will fit into our Slide Racks,
as shown on page A3

Shipping Weight **8.39 kg** (18-1/2 lbs.)



For the complete assortment contents turn to A110

H

Miscellaneous Springs

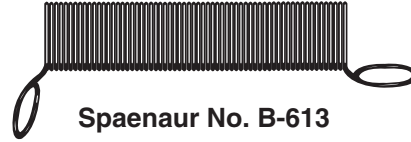


Spaenaur No. B-1278

Black Finish

Headlamp Reflector Retaining Spring

Coil O.D.: 19/64" Wire Gauge: .049"
Tip to Tip: 2-3/8" PKG QTY. 25



Spaenaur No. B-613

Zinc Plated

Carburetor Spring

Coil O.D.: 3/8" Wire Gauge: .037"
Coil Lgth.: 1-5/8" PKG QTY. 10

PLASTIKIT
«PLASTIKIT» **A-26**

Steel - Zinc Plated EXTENSION SPRINGS

10 SIZES - 45 PIECES

Spaenaur No.	Spring Outside Diameter	Wire Gauge	Overall Length	Qty.	Page	
B-659	3/32"	0.014"	1/2"	4	H17	
B-660	1/8"	0.018"	5/8"	6		
B-665	5/32"	0.018"	1-5/16"	5		
B-656	3/16"	0.022"	1"	4		
B-667	7/32"	0.025"	2"	4		
B-664	7/32"	0.028"	1-1/4"	5		
610-A09-1W	1/4"	0.022"	1"	5		
B-666	5/16"	0.023"	1-9/32"	3		H20
B-613	3/8"	0.037"	1-5/8"	3		H17
B-611	3/8"	0.054"	1-5/8"	3		H17

EXTENSION AND COMPRESSION SPRINGS

Clear PLASTIC CONTAINERS - durable and practical. Hinged lids - all plastic - no metal pins to rust or break. Positive gripping clasp - no spilling of contents. **Size: 1" x 2-3/4" x 4-1/2"**



A-26

PLASTIKIT
«PLASTIKIT» **A-28**

Steel - Zinc Plated EXTENSION & COMPRESSION SPRINGS

25 SIZES - 54 PIECES

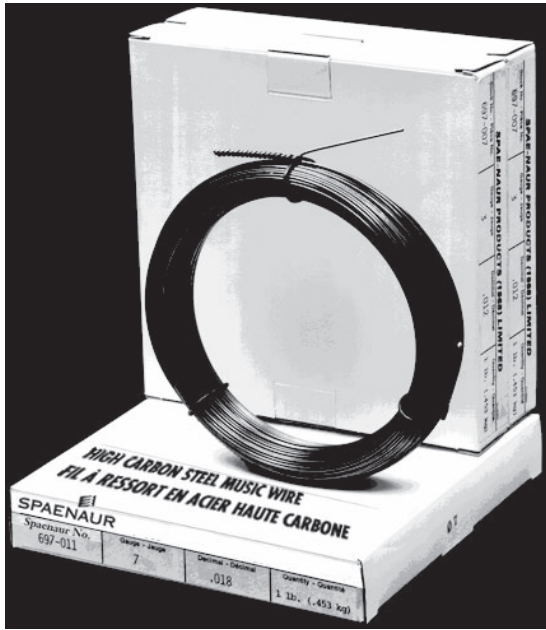
Name	Spaenaur No.	Spring Outside Diameter	Overall Length	Wire Gauge	Qty.	Page	
Compression Springs	B-648	1/8"	5/16"	0.015"	2	H18	
	B-647	7/32"	11/16"	0.032"			
	B-643	7/32"	2-3/8"	0.016"	3		
	B-646	1/4"	3/4"	0.018"			
	B-645	1/4"	1-1/2"	0.032"	2		
	B-644	9/32"	1-1/16"	0.032"	3		
	B-687	9/32"	1-5/8"	0.034"	2		
	B-642	9/32"	1-7/8"	0.028"			
	B-640	11/32"	5/8"	0.028"	3		
	B-638	13/32"	1-1/2"	0.047"	2		
	B-637	7/16"	3/4"				
	B-635	1/2"	7/8"	1			
	B-634	1/2"	3-1/8"	0.041"	2		
	B-633	19/32"	9/16"	0.054"	2		
	B-631	11/16"	27/32"	0.054"	1		H18
Extension Springs	B-659	3/32"	1/2"	0.014"	2	H17	
	B-660	1/8"	5/8"	0.018"	3		
	B-665	5/32"	1-5/16"				
	B-656	3/16"	1"	0.022"			
	B-664	7/32"	1-1/4"	0.028"	2		
	B-667	7/32"	2"	0.025"			
	610-A09-1W	1/4"	1"	0.022"	3		
	B-666	5/16"	1-9/32"	0.023"	2		
	B-613	3/8"	1-5/8"	0.037"	1		H20
	B-611	3/8"	1-5/8"	0.054"			H17

PLASTIKIT
«PLASTIKIT» **A-27**

Steel - Zinc Plated COMPRESSION SPRINGS

17 SIZES - 44 PIECES

Name	Spaenaur No.	Spring Outside Diameter	Overall Length	Wire Gauge	Qty.	Page
Compression Springs - Closed, Squared, or Squared & Ground Ends	B-648	1/8"	5/16"	0.015"	4	H18
	B-643	7/32"	11/16"	0.032"		
	B-647	7/32"	2-3/8"	0.016"	2	
	B-646	1/4"	3/4"	0.018"	5	
	B-645	1/4"	1-1/2"	0.032"	2	
	B-687	9/32"	1-1/16"	0.034"	3	
	B-642	9/32"	1-5/8"	0.028"		
	B-644	9/32"	1-7/8"	0.028"	5	
	B-640	11/32"	5/8"	0.028"	5	
	B-639	3/8"	1-7/8"	0.034"	1	
	B-638	13/32"	1-1/2"	0.047"	2	
	B-637	7/16"	3/4"	0.047"		
	B-636	7/16"	2-1/4"	0.062"	1	
	B-634	1/2"	7/8"	0.047"	2	
	B-635	1/2"	3-1/8"	0.041"	1	
	Compression Springs - Plain Ends	610-A10-1K	19/32"	9/16"	0.054"	



High Carbon Steel Music Wire (Plain) and Stainless Steel Spring Wire Type 302, (Full Hard)

Another of those essentials in the plant. Unlimited applications, including prototype spring usage, control linkages, gauging, or where long life and fatigue resistance are required. All sizes from .012" to .148" dia. are furnished in 1 lb. cartons or packages. Smaller sizes come in 1/4 lb., and larger diameters come in 5 lb. packs. Convenient to store and use.

CARBON SPRING WIRE		STAINLESS STEEL WIRE	
Tolerances	Analysis	Tolerances	Analysis
.006-.029 ±.0003	C-.80-1.00	.006-.013 ±.0003	C-.08-.020
.030-.079 ±.0005	Mg-.20-.60	.014-.029 ±.0005	Mg-2.00 MAX
.080-Larger ±.001	P-.025 MAX	.030-.043 ±.0006	P-.040 MAX
	S-.030 MAX	.044-Larger ±.001	S-.030 MAX
	Si-.12-.30		Si-1.00 MAX
			Ni-8.00-10.00
			Cr-17.00-19.00

Specifications: Spring Temper Mil-W-6101 QQW-470A
ASTM-A228 AISI-C1085-C1095

Specifications: AMS-5688-D QQW-423
ASTM-313-95

Music Wire tensile strength runs from approximately 250,000 psi for .180" dia. wire to 450,000 psi for .006" dia. wire.

SPAENAUR No.	STEEL MUSIC WIRE	TYPE 302 STAINLESS STEEL	Music Wire Gauge	Inch Wire Dia.	Feet per Lb.	PKG QTY.
697-001	—	—	—	.006	10415	1/4 lb. (.113 kg) Carton
697-002	—	—	—	.007"	7644	
697-003	—	—	—	.008	5858	
697-004	—	—	—	.009	4629	
697-005	▲697-842	1	1	.010	3749	▲1 lb. (.453 kg)
697-006	697-802	2	2	.011	3175	
697-007	697-803	3	3	.012	2604	1 lb. (.453 kg) Carton
697-008	697-804	4	4	.013	2218	
697-009	697-805	5	5	.014	1913	
697-010	697-806	6	6	.016	1465	
697-011	697-807	7	7	.018	1157	
697-012	697-808	8	8	.020	937	
697-013	697-809	9	9	.022	774	
697-014	697-810	10	10	.024	650	
697-015	697-811	11	11	.026	575	
697-016	697-812	12	12	.029	450	
697-017	697-813	13	13	.031	400	
697-018	697-814	14	14	.033	346	
697-019	697-815	15	15	.035	306	
697-020	697-816	16	16	.037	280	
697-021	697-817	17	17	.039	250	
697-022	697-818	18	18	.041	223	
697-023	697-819	19	19	.043	207	
697-024	697-820	20	20	.045	190	
697-025	697-821	21	21	.047	172	

SPAENAUR No.	STEEL MUSIC WIRE	TYPE 302 STAINLESS STEEL	Music Wire Gauge	Inch Wire Dia.	Feet per Lb.	PKG QTY.
697-026	—	—	22	.049	156	1 lb. (.453 kg) Carton
697-027	697-823	23	23	.051	145	
697-028	697-824	24	24	.055	123	
697-029	697-825	25	25	.059	110	
697-030	697-826	26	26	.063	95	
697-031	697-827	27	27	.067	85	
697-032	697-828	28	28	.071	75	
697-033	697-829	29	29	.075	71	
697-034	697-830	30	30	.080	58	1 lb. (.453 kg) Pack
697-035	697-831	31	31	.085	53	
697-036	697-832	32	32	.090	45	
697-037	697-833	33	33	.095	41	
697-038	697-834	34	34	.100	37	
697-039	697-835	35	35	.106	34	
697-040	697-836	36	36	.112	30	
697-041	697-837	37	37	.120	27	
697-W01-1A	697-838	38	38	.125	24	5 lb. (2.27 kg) Pack
697-044	697-840	40	40	.135	19.7	
697-045	—	41	41	.148	17.3	
697-047	—	43	43	.162	14.3	5 lb. (2.27 kg) Pack
697-049	—	45	45	.177	11.5	
697-050	—	3/16"	—	.187	9.0	



Galvanized Soft Steel Wire for general purpose use.

SPAENAUR No.	WIRE SIZE	PKG QTY.
697-102	18 gauge (.048" dia.)	5 lb. Coil (2.27kg) (±10%)

See page M57 for Wire Rope. (Aircraft Cable)

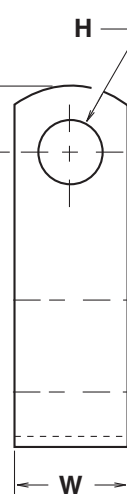
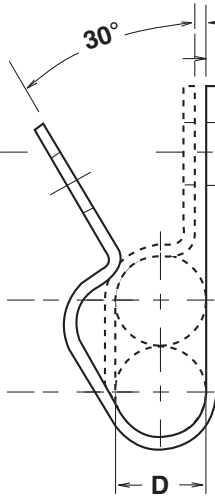
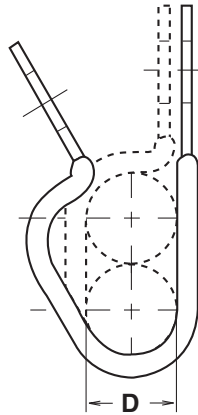
DOUBLE TUBE STYLE

MATERIAL - Steel, SCR, C-1010
FINISH - Zinc Plated
or
Hot Dipped
Galvanized Steel
our option.

INSULATED
with
Black P.V.C.
Plastic 1/32" Thick



Furnished "Open"



CLOSED TYPE
Furnished Open



NOT INSULATED

PKG QTY. 50 - ALL ITEMS ON THIS PAGE

For inspection of these parts, close around mandrel the same size as inside dimensions of clamp.

INSULATED		NOT INSULATED	

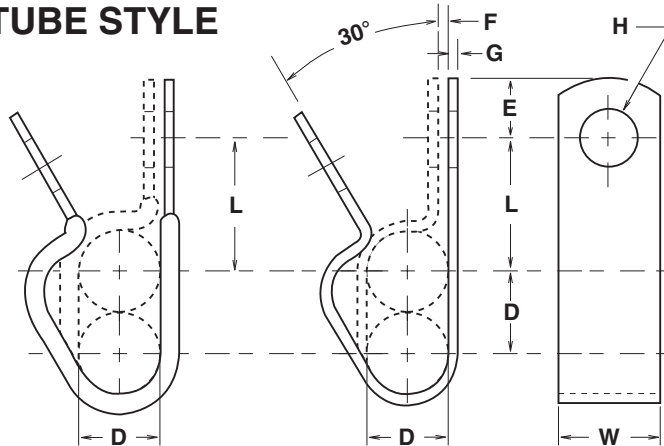
D	INSULATED		NOT INSULATED		H	W	E	F	G
Diameter of Tubes	SPAENAUR No.	Holes to Tube Centre	SPAENAUR No.	Holes to Tube Centre	Diameter of Holes	Steel Width	Hole Centre To End	Gap	Steel Gauge
5/8"	086-F61-1A	25/32"			11/32"	5/8"	5/16"	1/16"	.048"
	086-562	27/32"			13/32"	3/4"	3/8"	1/16"	.048"
	086-563	29/32"			15/32"	7/8"	7/16"	1/16"	.048"
	086-F70-1W	31/32"			17/32"	1"	1/2"	1/16"	.048"
11/16"	086-565	13/16"	086-506	25/32"	11/32"	5/8"	3/8"	1/16"	.048"
	086-566	7/8"			13/32"	3/4"	3/8"	1/16"	.048"
	086-567	15/16"			15/32"	7/8"	7/16"	1/16"	.048"
3/4"	086-F66-1T	29/32"			13/32"	3/4"	3/8"	1/16"	.048"
	086-571	31/32"			15/32"	7/8"	7/16"	1/16"	.048"
	086-572	1-1/32"			17/32"	1"	1/2"	1/16"	.048"
13/16"	086-573	7/8"			11/32"	5/8"	5/16"	1/16"	.060"
	086-574	15/16"			13/32"	3/4"	3/8"	1/16"	.060"
	086-575	1"			15/32"	7/8"	7/16"	1/16"	.060"
	086-576	1-1/16"			17/32"	1"	1/2"	1/16"	.060"
7/8"	086-577	29/32"			11/32"	5/8"	5/16"	1/16"	.060"
	086-578	31/32"			13/32"	3/4"	3/8"	1/16"	.060"
	086-579	1-1/32"			15/32"	7/8"	7/16"	1/16"	.060"
	086-580	1-3/32"			17/32"	1"	1/2"	1/16"	.060"
15/16"	086-581	15/16"			11/32"	5/8"	5/16"	1/16"	.060"
	086-582	1"			13/32"	3/4"	3/8"	1/16"	.060"
	086-583	1-1/16"			15/32"	7/8"	7/16"	1/16"	.060"
	086-584	1-1/8"			1-3/32"	17/32"	1"	1/2"	1/16"
1"	086-F53-1N	31/32"			11/32"	5/8"	5/16"	1/16"	.060"
	086-F57-1M	1-1/32"			13/32"	3/4"	3/8"	1/16"	.060"
	086-587	1-3/32"			17/32"	1"	9/16"	1/16"	.060"
	086-588	1-5/32"			17/32"	1"	1/2"	1/16"	.060"

Table continues on next page...

Continued from Previous Page

DOUBLE TUBE STYLE

INSULATED
with
Black P.V.C.
Plastic 1/32" Thick



MATERIAL - Steel, SCR, C-1010
FINISH - Zinc Plated or
Hot Dipped Galvanized Steel
our option.





CLOSED TYPE
Furnished Open



NOT INSULATED

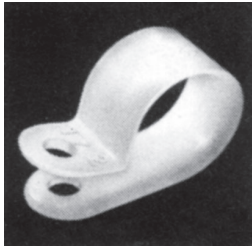
PKG QTY. 100 - ALL ITEMS ON THIS PAGE

For inspection of these parts, close around mandrel the same size as inside dimensions of clamp.

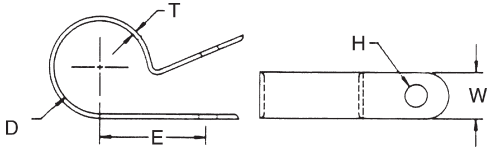
D	INSULATED		NOT INSULATED		H	W	E	F	G
	 L	 L	 L	 L					
Diameter of Tubes	SPAENAUR No.	Holes to Tube Centre	SPAENAUR No.	Holes to Tube Centre	Diameter of Holes	Steel Width	Hole Centre To End	Gap	Steel Gauge
3/16"	086-530	15/32"	086-471	7/16"	7/32"	1/2"	7/32"	1/32"	.032"
	086-531	1/2"	086-472	15/32"	9/32"	1/2"	1/4"	1/32"	.032"
	086-532	9/16"			11/32"	5/8"	5/16"	1/32"	.032"
1/4"	086-534	1/2"	086-475	15/32"	7/32"	1/2"	7/32"	1/32"	.032"
	086-535	17/32"	086-476	1/2"	9/32"	1/2"	1/4"	1/32"	.032"
	086-F54-1T	19/32"	086-477	9/16"	11/32"	5/8"	5/16"	1/32"	.032"
	086-537	21/32"			13/32"	3/4"	3/8"	1/32"	.032"
5/16"	086-538	9/16"	086-479	17/32"	9/32"	1/2"	1/4"	1/32"	.032"
	086-539	5/8"			11/32"	5/8"	5/16"	1/32"	.032"
	086-F55-1K	11/16"			13/32"	3/4"	7/16"	1/32"	.032"
3/8"	086-F13-1Y	19/32"	086-482	9/16"	9/32"	1/2"	1/4"	1/16"	.032"
	086-542	21/32"	086-F18-1W	5/8"	11/32"	5/8"	5/16"	1/16"	.032"
	086-F19-1M	23/32"			13/32"	3/4"	3/8"	1/16"	.032"
	086-F47-1A	25/32"	086-F79-1K	3/4"	15/32"	7/8"	7/16"	1/16"	.032"
	086-545	27/32"			17/32"	1"	1/2"	1/16"	.032"
7/16"	086-546	5/8"			9/32"	1/2"	1/4"	1/16"	.032"
	086-548	3/4"			13/32"	3/4"	3/8"	1/16"	.032"
	086-549	13/16"			15/32"	7/8"	7/16"	1/16"	.032"
	086-F71-1M	7/8"			17/32"	1"	1/2"	1/16"	.032"
1/2"	086-F59-1A	21/32"			9/32"	1/2"	1/4"	1/16"	.048"
	086-552	23/32"			11/32"	5/8"	5/16"	1/16"	.048"
	086-553	25/32"			13/32"	3/4"	3/8"	1/16"	.048"
	086-F56-1W	27/32"			15/32"	7/8"	7/16"	1/16"	.048"
	086-F50-1P	29/32"			17/32"	1"	1/2"	1/16"	.048"
9/16"	086-F63-1Y	11/16"			9/32"	1/2"	1/4"	1/16"	.048"
	086-557	3/4"			11/32"	5/8"	5/16"	1/16"	.048"
	086-558	13/16"			13/32"	3/4"	3/8"	1/16"	.048"
	086-559	7/8"			15/32"	7/8"	7/16"	1/16"	.048"
	086-560	15/16"			17/32"	1"	1/2"	1/16"	.048"

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NYLON because it's tough; resilient; light-weight; resistant to aging and most chemicals; excellent insulation.



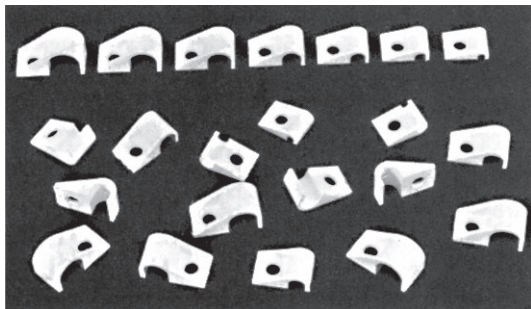
6/6
NYLON
(Natural)



CABLE CLAMPS

SPAENAUR No. NYLON		All Dimensions Shown in Inches.					PKG QTY.
WHITE	BLACK	D	E	T	W	H	
086-F87-1Y		1/8	.315	.050	1/2	13/64	100
086-661		3/16	.425	.050	1/2	13/64	100
086-662	086-662BK	1/4	.410	.050	1/2	13/64	100
086-663	086-663BK	5/16	.500	.050	1/2	13/64	100
086-664	086-664BK	3/8	.530	.050	1/2	13/64	100
086-665		7/16	.560	.050	1/2	13/64	100
086-666	086-666BK	1/2	.595	.050	1/2	13/64	100
086-667	-	9/16	.606	.050	1/2	13/64	100
086-668	086-668BK	5/8	.665	.050	1/2	13/64	100
086-669		11/16	.755	.050	1/2	13/64	100
086-670	086-670BK	3/4	.780	.050	1/2	13/64	100
086-671		7/8	.845	.050	1/2	13/64	100
086-672		1	.910	.050	1/2	13/64	50
086-673		1-1/8	.970	.050	1/2	13/64	50
086-674		1-3/16	1.000	.050	1/2	13/64	50
086-675		1-1/4	1.060	.050	1/2	13/64	50
086-676		1-3/8	1.125	.050	1/2	13/64	50
086-677		1-1/2	1.190	.050	1/2	13/64	50

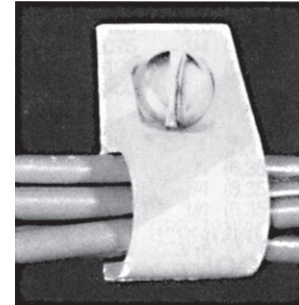
H



TYPE 6/6

NYLON
HEAVY-DUTY
CABLE CLIPS

NATURAL COLOUR

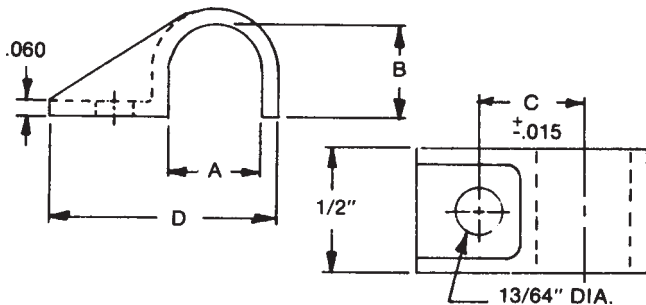


Nylon Heavy-Duty Cable Clips are designed for cable and wire applications involving greater than usual loads or connections of critical nature.

The rugged clip has reinforced side flanges for additional strength and rigidity. Compact design allows this clip to be used on corners, edges, or where space is limited. Clip has hole for screw mounting.

Available in size range for 1/8" to 1/2" diameter cable.

GOOD ELECTRICAL INSULATION.



SPAENAUR No.	Description	Dimensions in Inches			
		A	B	C	D
086-680	1/8" Hvy.-duty Clip	.115	.115	.307	.675
086-681	3/16" Hvy.-duty Clip	.172	.172	.328	.732
086-F84-1X	1/4" Hvy.-duty Clip	.234	.234	.366	.793
086-683	5/16" Hvy.-duty Clip	.297	.297	.400	.859
086-684	3/8" Hvy.-duty Clip	.359	.359	.430	.910
086-685	7/16" Hvy.-duty Clip	.422	.422	.460	.980
086-686	1/2" Hvy.-duty Clip	.484	.484	.492	1.044

PKG QTY. 100

SPAENAUR
CATALOG 14

STANDARD

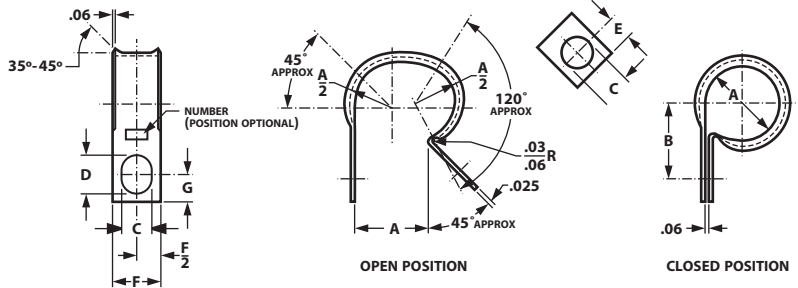
CABLE AND WIRE CLIPS

CLOSED TYPE - FURNISHED OPEN

LIGHT DUTY

Material - S.A.E. 1010 1/4 hard C.R. Steel

Plating - Zinc (.0002")



Furnished as illustrated above, or insulated all around cable loop with approximately 1/32"-thick Black PVC plastic. PVC (Poly Vinyl Chloride) insulation has high dielectric, and is resistant to wear, weathering, gasolines, and most chemicals. Capacity A is correct for Insulated and Non-insulated Clips as allowances have been compensated for in manufacturing.

SPAENAUR No.		CAPACITY A	BOLT SIZE	LENGTH CENTER TO CENTER B	WIDTH F	PKG QTY.
Non-insulated	Insulated with P.V.C.					
C-948	086-F02-1C	3/16"	1/4"	1/2"	1/2"	100
086-F08-1X	086-F52-1C	1/4"	1/4"	1/2"	1/2"	100
C-986	(Plain Steel)	1/4"	3/8"	19/32"	5/8"	100
C-950	C-950PC	5/16"	1/4"	17/32"	1/2"	100
086-F38-1C	086-F01-1Y	3/8"	1/4"	9/16"	1/2"	100
086-F21-1M	C-952PC	7/16"	1/4"	19/32"	1/2"	100
086-F24-1P	086-F45-1M	1/2"	1/4"	5/8"	1/2"	100
C-954	086-F81-1K	9/16"	1/4"	21/32"	1/2"	100
C-955	086-F04-1T	5/8"	1/4"	11/16"	1/2"	100
C-956	086-F03-1N	3/4"	1/4"	.781"	1/2"	50
C-957	086-F17-1K	7/8"	1/4"	13/16"	1/2"	50
086-F68-1W	086-F36-1P	1"	1/4"	.908"	1/2"	50



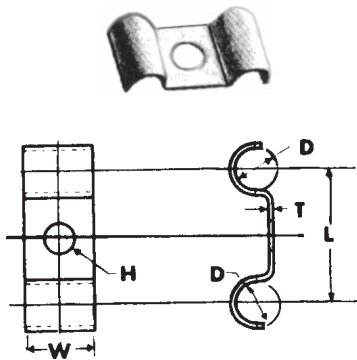
**SPAENAUR
CABLE CLIP**

with 1/32"
PVC

See also pages
H27 and H28
for more cable
and wire clips.

H

**OPEN TYPE MEDIUM DUTY
STEEL - ZINC PLATED**

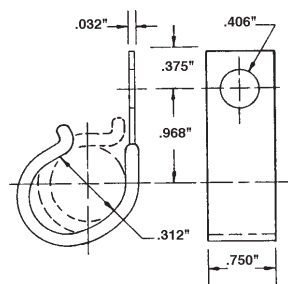


**STANDARD
DOUBLE TUBE CLAMPS**

SPAENAUR No.	INSIDE DIAMETER D	HOLE SIZE H	LENGTH CENTER TO CENTER L	THICK- NESS T	WIDTH W	PKG QTY.
C-962	3/16"	7/32"	7/8"	.050"	5/8"	100
C-1033	1/4"	9/32"	15/16"	.050"	5/8"	100
086-001	3/8"	9/32"	1-1/4"	.050"	5/8"	100
C-1037	1/2"	11/32"	1-5/8"	.062"	7/8"	100
C-1038	5/8"	13/32"	1-7/8"	.078"	7/8"	50
C-1039	3/4"	13/32"	2-1/8"	.097"	1"	50

CATALOG 14

SPAENAUR



**"J" Clip
Cable Clamp**

OPEN STYLE with
P.V.C. Insulation

C-1008-1010 Steel
Zinc Plated

**SPAENAUR No.
086-F42-1T**

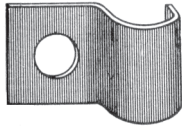
PKG QTY. 100



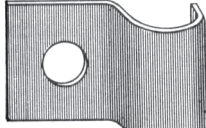
STANDARD TUBE CLAMPS

OPEN TYPE — MEDIUM DUTY

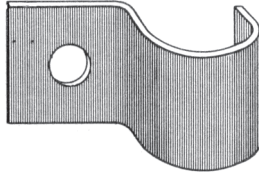
Zinc Plated STEEL
(*Zinc or Cad plated, our option)



086-F40-1K



086-F06-1W



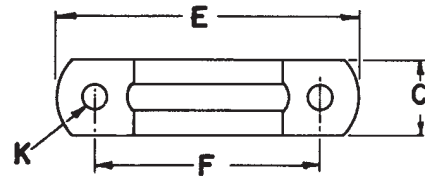
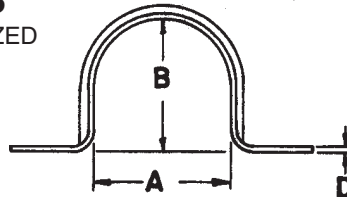
C-626

PKG QTY. 50

SPAENAUR No.	TO FIT CABLE DIA.	WIDTH	LENGTH OVER-ALL	HOLE DIA.	THICKNESS OF STEEL
*086-F78-1T	1/8"	3/8"	5/8"	.169"	.031"
R-306	3/16"	3/8"	13/16"	7/32"	.035"
086-F73-1A	1/4"	3/8"	3/4"	5/32"	.035"
086-F40-1K	5/16"	1/2"	31/32"	7/32"	.048"
086-F06-1W	3/8"	5/8"	1-3/32"	7/32"	.050"
086-F39-1N	7/16"	5/8"	1-5/32"	9/32"	.050"
R-308	1/2"	3/8"	1"	5/32"	.033"
086-F83-1M	1/2"	5/8"	1-7/32"	9/32"	.060"
086-F16-1T	9/16"	5/8"	1-9/32"	9/32"	.060"
C-626	5/8"	5/8"	1-3/8"	7/32"	.060"
086-F12-1P	5/8"	5/8"	1-3/8"	9/32"	.060"
086-F25-1Y	3/4"	5/8"	1-9/16"	9/32"	.060"

PIPE and ROMEX STRAPS

2-HOLE TYPE STEEL—PRE-GALVANIZED



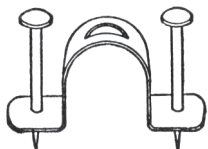
E.M.T.—Electric Metallic Tubing or Thinwall Conduit.
I.P.S.—Iron Pipe Size or Rigid Conduit.

No sharp edges.
Pipe or conduit size stamped on each strap.

SPAENAUR No.	Pipe or Conduit Size	A	B	C	D	E	F	K	PKG QTY.
C-772	Romex	.406"	.375"	5/8"	.028"	1-5/8"	1-3/16"	3/16"	100
C-773	1/4" I.P.S. & BX	.540"	.510"	5/8"	.029"	1-7/8"	1-1/4"	3/16"	100
C-775	3/8" I.P.S.	.675"	.645"	5/8"	.029"	2-1/32"	1-13/32"	3/16"	100
C-776	1/2" E.M.T.	.706"	.676"	5/8"	.029"	2-1/16"	1-7/8"	3/16"	50
C-777	1/2" I.P.S.	.840"	.810"	5/8"	.029"	2-7/16"	1-11/16"	3/16"	50
C-778	3/4" E.M.T.	.922"	.892"	3/4"	.035"	2-3/4"	1-7/8"	17/64"	50
C-779	3/4" I.P.S.	1.050"	1.020"	3/4"	.035"	2-7/8"	2-3/32"	17/64"	50
C-780	1" E.M.T.	1.164"	1.134"	3/4"	.035"	3-1/16"	2-19/64"	17/64"	25
C-781	1" I.P.S.	1.315"	1.285"	3/4"	.035"	3-9/64"	2-25/64"	17/64"	25
C-782	1-1/4" E.M.T.	1.510"	1.480"	7/8"	.048"	3-1/2"	2-5/8"	17/64"	25
C-783	1-1/4" I.P.S.	1.660"	1.630"	7/8"	.048"	4-11/16"	3-1/4"	17/64"	25
C-941	1-1/2" I.P.S.	1.900"	1.850"	1-1/4"	.062"	4-5/8"	3-17/64"	17/64"	25
C-942	2" I.P.S.	2.375"	2.325"	1-1/4"	.062"	5"	4-21/64"	17/64"	25
C-943	2-1/2" I.P.S.	2.875"	2.825"	1-1/4"	.062"	5"	4-5/8"	17/64"	10
C-944	3" I.P.S.	3.50"	3.450"	1-1/4"	.062"	6-3/8"	5-13/16"	17/64"	10
C-945	3-1/2" I.P.S.	4.00"	3.950"	1-1/4"	.062"	6-7/16"	5-13/16"	17/64"	10
C-946	4" I.P.S.	4.50"	4.450"	1-1/4"	.062"	6-5/8"	6"	17/64"	10

"NAIL-ON" CABLE STRAPS

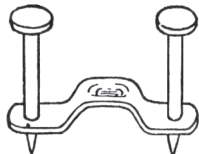
Pre-assembled, Aluminum Straps and Nails
For supporting Electrical Cable.
Patented and C.S.A. approved.



C-768

For 14/2, 14/3, 12/2
Flex, Armoured Cable
PKG QTY. 50

"REAL TIME-SAVERS"

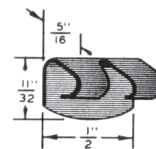


C-769

For 14/2, 12-2
Non-Metallic Cable
PKG QTY. 50

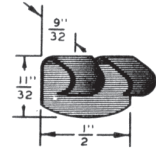


PKG QTY. 100



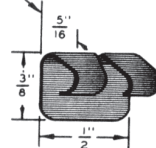
No. C-789
Fits pint (American Can Co.)
Fits 1/2 pint (Continental Can)

Approved by
Canadian Postmaster General.



No. C-790
Fits 1/2 pint (American Can)
Fits quart (Continental Can)
Fits 1 litre

Makes lids secure
despite roughest handling.



No. C-791
Fits gallon (American Can Co.)
Fits gallon (Continental Can)
Fits 4 litre

CATALOG 14

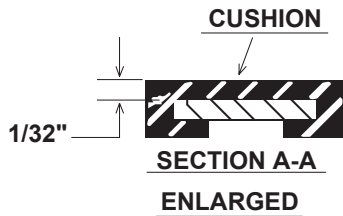
SPAENAUR

Lightweight - Insulated

For

- **INDUSTRIAL USE**
- **AIR-CONDITIONING**
- **AUTOMOTIVE**
- **MARINE**

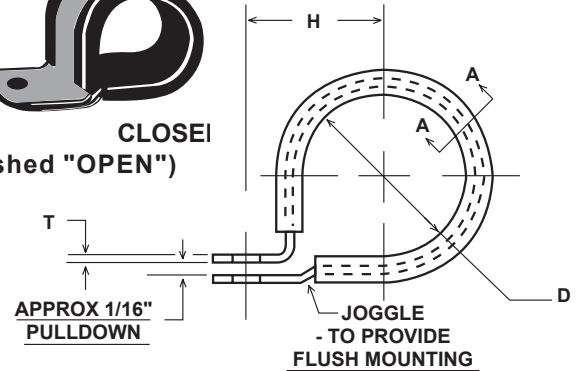
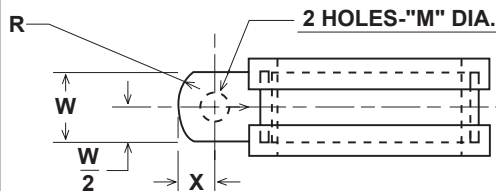
All clamps have uniform, 1/32" thick, grey, black or beige Polyvinyl Cushion (Temperature range - 25°F to +160°F.) and are resistant to gasolines, weathering, wear, and most chemicals.



OPEN
(All Clamps Furnished "OPEN")



CLOSED



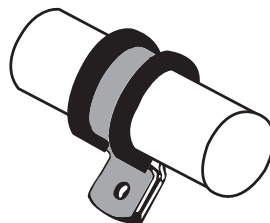
SPAENAUR No. Pre-Galvanized STEEL	Metal		Tube Dia. D	Holes to Tube Centre H	Hole Dia. M	Dimensions		End Radius R	PKG QTY
	Thick. T	Width W				W 2	X		
703-003	.040"	1/2"	3/16"	.455"	.203"	1/4"	7/32"	3/8"	100
703-004	.040"	1/2"	1/4"	.486"	.203"	1/4"	7/32"	3/8"	100
703-H01-1A	.040"	1/2"	5/16"	.517"	.203"	1/4"	7/32"	3/8"	100
703-006	.040"	1/2"	3/8"	.548"	.203"	1/4"	7/32"	3/8"	100
703-007	.040"	1/2"	7/16"	.580"	.203"	1/4"	7/32"	3/8"	50
703-008	.040"	1/2"	1/2"	.611"	.203"	1/4"	7/32"	3/8"	50
703-009	.040"	1/2"	9/16"	.642"	.203"	1/4"	7/32"	3/8"	50
703-010	.040"	1/2"	5/8"	.673"	.203"	1/4"	7/32"	3/8"	50
703-011	.020"	1/2"	11/16"	.705"	.203"	1/4"	7/32"	3/8"	50
703-012	.040"	1/2"	3/4"	.736"	.203"	1/4"	7/32"	3/8"	50
703-013	.025"	1/2"	13/16"	.772"	.203"	1/4"	7/32"	3/8"	50
703-H03-1A	.025"	1/2"	7/8"	.803"	.203"	1/4"	7/32"	3/8"	50
703-015	.025"	1/2"	15/16"	.835"	.203"	1/4"	7/32"	3/8"	25
703-016	.025"	1/2"	1"	.866"	.203"	1/4"	7/32"	3/8"	25
703-018	.040"	1/2"	1-1/8"	.928"	.203"	1/4"	7/32"	3/8"	25
703-020	.040"	1/2"	1-1/4"	.991"	.203"	1/4"	7/32"	3/8"	20
703-024	.040"	1/2"	1-1/2"	1.116"	.203"	1/4"	7/32"	3/8"	20
703-028	.032"	1/2"	1-3/4"	1.248"	.203"	1/4"	7/32"	3/8"	10
703-032	.054"	1/2"	2"	1.313"	.203"	1/4"	7/32"	3/8"	10

All clamps furnished "Open"

Three things to watch!

1. To properly inspect a clip or clamp, it should be installed on a bar or tube having an outside diameter equal to that of the tube or cable to be supported.

Following this procedure, the bolt holes will align. When the two ends are pulled together to the applicable gap shown on the drawing, all other dimensions will then be within tolerance.



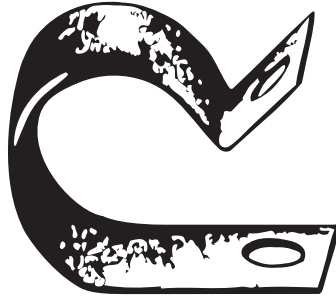
2. Closing ends without first inserting tube or bar of proper diameter, holes do not align.
3. Closing ends without first inserting tube or bar of proper diameter, but forcing holes to align, an elliptical shape results.

See also page H25 for more clamps.

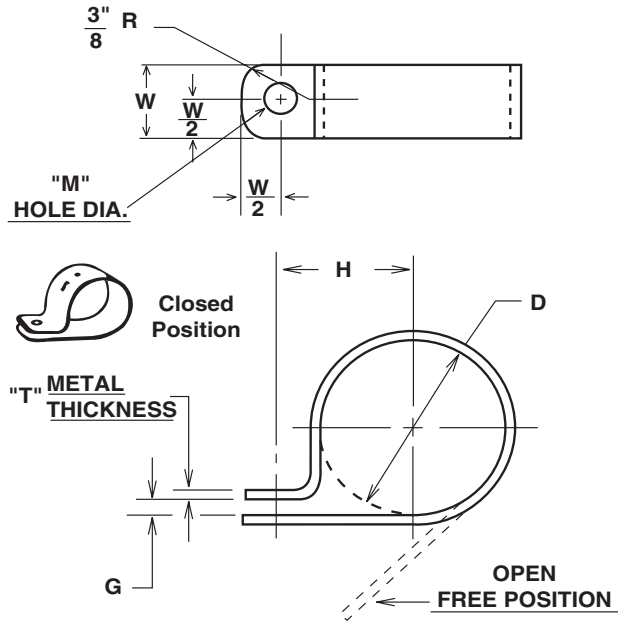
Lightweight — Uninsulated

TUBING CLAMPS

For Commercial use



All Clamps
Furnished
"OPEN"
as shown
at right.



SPAENAUR No.		METAL			For Tube Dia. D	Holes (2) to Tube centre H	Gap. G	Holes (2) Dia. M	W/2	PKG QTY.
Pre-Galvanized STEEL	321 Stainless STEEL	Thickness T		Width W						
		STEEL	ALUM.							
703-204	703-H02-1X	.031"	.032"	3/8"	1/4"	.360"	.031"	.199"	3/16"	100
703-206	703-800	.031"	.032"	3/8"	3/8"	.410"	.031"	.199"	3/16"	100
703-208	703-801	.031"	.032"	3/8"	1/2"	.470"	.031"	.199"	3/16"	100
703-210		.031"	.064"	3/8"	5/8"	.500"	.062"	.199"	3/16"	50
703-212		.031"	.064"	1/2"	3/4"	.720"	.062"	.199"	1/4"	50
703-216		.031"	.064"	1/2"	1"	.790"	.062"	.199"	1/4"	50
703-220		.031"	.064"	1/2"	1-1/4"	1.000"	.093"	.199"	1/4"	25
703-224		.031"	.064"	1/2"	1-1/2"	1.094"	.093"	.199"	1/4"	25
703-228		.031"	.064"	1/2"	1-3/4"	1.200"	.093"	.199"	1/4"	10
703-232		.031"	.064"	1/2"	2"	1.410"	.093"	.199"	1/4"	10

BOWDEN WIRE CLAMPS

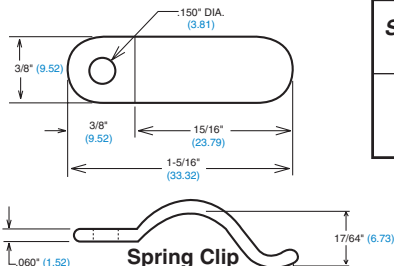
SPRING STEEL — ZINC PLATED

SPAENAUR No.	Clamping Diameter	PKG QTY.
086-434	7/8"	50
086-435	1"	50



White NYLON SPRING AND WIRE CLIP

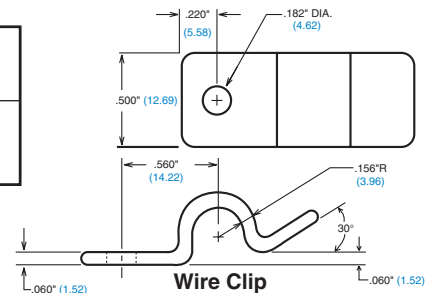
Spaenaur nylon Spring Clip and Wire Clip provide fast, secure assembly and routing of wires, standard round cable, flat cable and tubing. The Spring Clip can also be used to mount panels, glass, displays, or signs. To inspect, add or replace wires simply pull back clip to allow placement. The tough, flexible nylon clip will spring back to hold the material securely. All contact edges are rounded for product protection.



SPAENAUR No.	Description	Size
086-688	WIRE CLIP	1/2" x .312"
086-687	SPRING CLIP	3/8" x .132"

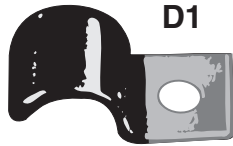
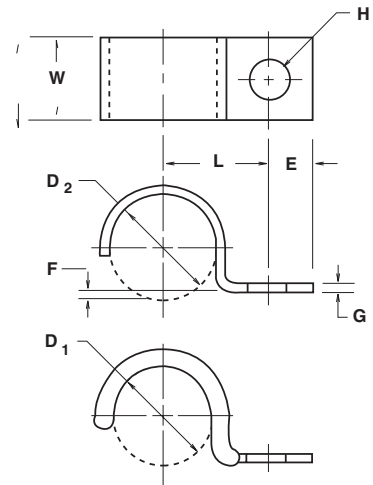
PKG QTY. 100

Inch
(millimetre)

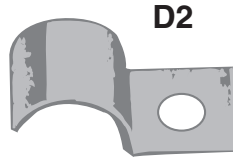


“HALF” CLIPS

MATERIAL — Steel, SCR, C-1010
 FINISH — Zinc Plated or Hot Dipped Galvanized Steel - our option



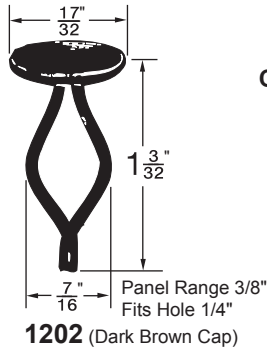
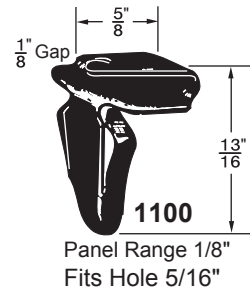
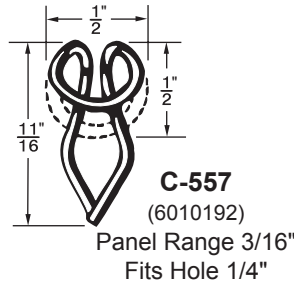
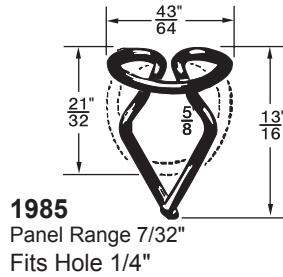
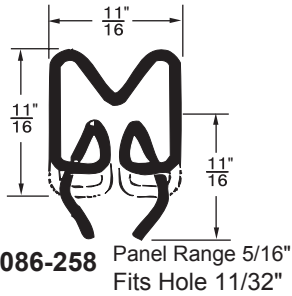
D1
CUSHION—Black Vinyl, (P.V.C.)
1/32" Thick



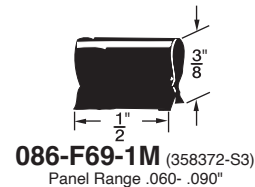
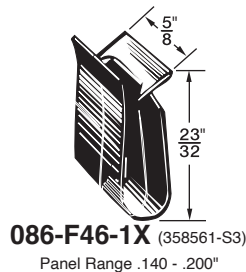
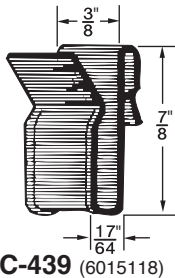
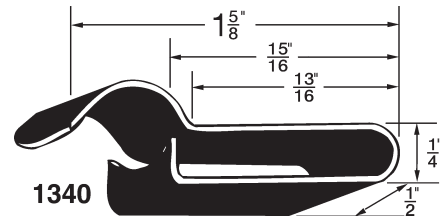
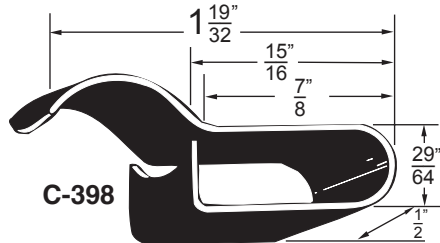
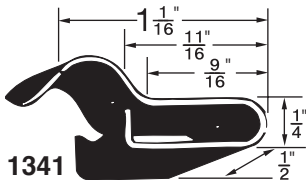
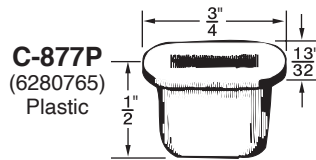
D2
NOT CUSHIONED

EXCEPT FOR CLAMPING DIAMETER, DIMENSIONS OF CUSHIONED AND PLAIN PARTS ARE IDENTICAL

CUSHIONED (Insulated)		NOT CUSHIONED (Non-insulated)		PKG QTY. 50					
D-1 Clamping Diameter	SPAENAUR No.	D-2 Clamping Diameter	SPAENAUR No.	H	L	W	E	F	G
				Diameter of Hole	Centre to Centre	Width	Hole Centre to End	Gap	Gauge
		3/16"	086-589	7/32"	7/16"	1/2"	1/4"	1/32"	.032"
3/16"	086-599	1/4"	086-F35-1A	7/32"	1/2"	1/2"	1/4"	1/16"	.032"
1/4"	086-F07-1M	5/16"	086-F40-1K	7/32"	1/2"	1/2"	1/4"	1/16"	.048"
5/16"	086-F23-1A	3/8"	086-F06-1W	7/32"	17/32"	5/8"	5/16"	1/16"	.048"
	086-602		086-F37-1Y	9/32"	17/32"	5/8"	5/16"	1/16"	.048"
3/8"	086-603	7/16"	086-592	7/32"	9/16"	5/8"	5/16"	1/16"	.048"
	086-F10-1X		086-F39-1N	9/32"	9/16"	5/8"	5/16"	1/16"	.048"
7/16"	086-605	1/2"	086-F14-1C	7/32"	5/8"	5/8"	5/16"	1/16"	.060"
	086-606		086-F83-1M	9/32"	5/8"	5/8"	5/16"	1/16"	.060"
1/2"	086-F05-1K	9/16"	086-594	7/32"	11/16"	5/8"	5/16"	1/16"	.060"
	086-F15-1N		086-F16-1T	9/32"	11/16"	5/8"	5/16"	1/16"	.060"
9/16"	086-609	5/8"	C-626	7/32"	3/4"	5/8"	5/16"	1/16"	.060"
	086-F48-1P		086-F12-1P	9/32"	3/4"	5/8"	5/16"	1/16"	.060"
5/8"	086-F67-1K	11/16"	086-595	7/32"	13/16"	5/8"	5/16"	1/16"	.060"
	086-F22-1X		086-F49-1Y	9/32"	13/16"	5/8"	5/16"	1/16"	.060"
11/16"	086-F80-1T	3/4"	086-597	7/32"	13/16"	5/8"	5/16"	1/16"	.060"
	086-614		086-F25-1Y	9/32"	13/16"	5/8"	5/16"	1/16"	.060"
3/4"	086-615	13/16"	086-F20-1W	7/32"	7/8"	5/8"	5/16"	1/16"	.060"
	086-F11-1A			9/32"	7/8"	5/8"	5/16"	1/16"	.060"



Contact Sales Desk For Package Quantities



THROTTLE ROD CLIPS



For 5/32" dia. rod
C-760 RIGHT
C-761 LEFT

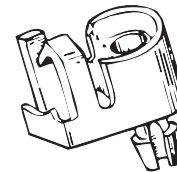


For 3/16" dia. rod
C-764 RIGHT
C-765 LEFT



For 1/4" dia. rod
C-766 RIGHT
C-767 LEFT

Hardened Spring Steel — Right and Left Hand Styles
PKG QTY. 50 (One Number) (Left Styles Shown)



086-642
(3796070)

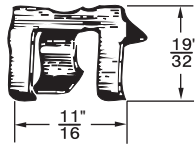
1/8" Panel Thickness
Clip, Door Lock Rod End:
Chrysler Products.
5/32" Rod
PKG QTY. 50

H

SPAENAUR CATALOG 14.07

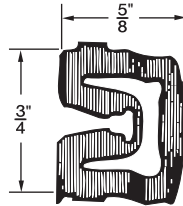
Windshield and Rear Window Reveal Moulding Clips

For CHRYSLER PRODUCTS CARS



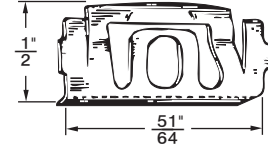
Spaenaur No. C-1095
(2217508)

Clip, Outer Weatherstrip,
Door & Quarter Window
Chrysler Products '67-'71
PKG QTY. 100



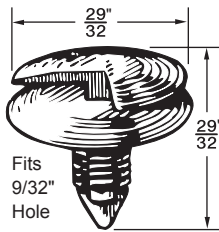
Spaenaur No. C-1085
(6002893)

Rear Window Reveal
Moulding Clip
Barracuda '69-'70
Chrysler Products '71
PKG QTY. 50



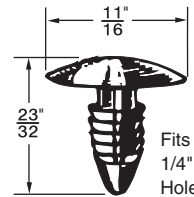
Spaenaur No. 086-F44-1W
(6002615)

Windshield Outside
Moulding Retainer
Chrysler Products '68-'70
PKG QTY. 50



Spaenaur No. C-1115
(6003349)

Door Trim Panel Fastener, Nylon
(Used on Cardboard Panels)
'72-'73 Chrysler Products,
Valiant, Dart, Duster, Demon
PKG QTY. 100



Spaenaur No. C-1130
(332364 & 4004569)

Clip, Plastic Shield Fenders
and Engine Compartment
Chevrolet and
American Motors '73
PKG QTY. 100

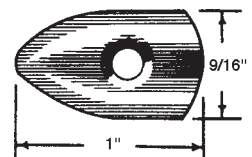


**FENDERWELT
(EXTRUDED BLACK VINYL)**

SPAENAUR No.	Bead O.D.	Leg or Flange	Height O/A	PKG QTY.
RW-136	7/32"	3/4"	31/32"	100'
825-B33-1W	1/4"	1-1/2"	1-5/8"	150'

END TIPS
Nickel on Brass

PKG QTY. 100



Spaenaur No. B-1683

HOOD LACING

(Woven, Treated Fabric)



Channel Type - 3/16" Thick

SPAENAUR No.	Width
B-142	7/8"

PKG QTY. 100 FEET

See Page K20 For Trim Pad Removal Tool

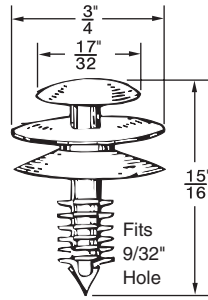
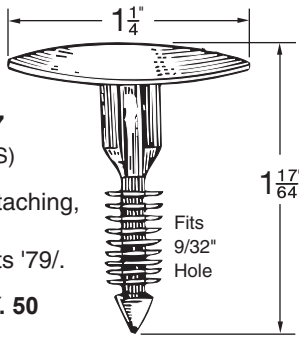
For FORD PRODUCTS CARS

086-617

(N-800387-S)

Dashboard Attaching,
Clip:
Ford Products '79/.

PKG QTY. 50



086-618

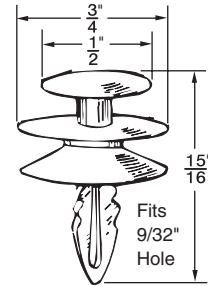
(388499-S)

Inside Door Panel Attaching,
Clip:
Ford Products '78/.

PKG QTY. 50

086-619
(387477-S)
Clip, Trim Panel
Ford Products '77/.

PKG QTY. 100

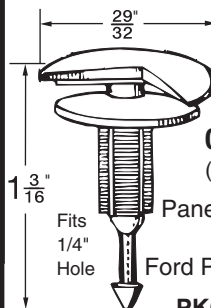
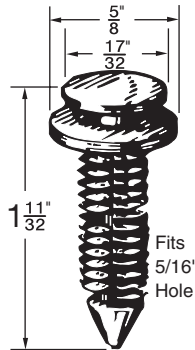


086-621

(387182-S)

Seat Back
Panel Retainer:
Ford Products '77/.

PKG QTY. 25

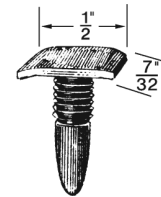


086-622

(387496-S)

Panel Retaining
Clip:
Ford Products '78/.

PKG QTY. 50



C-982P

(C5AB-6220586-A)
Door Weatherstrip
Retainer, Nylon
Ford Products '66-'68/.

PKG QTY. 50

H

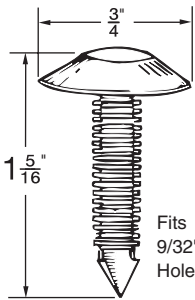
For GENERAL MOTORS CARS

086-624

(1699250)

Clip, Trim Panels:
General Motors Cars '77/.

PKG QTY. 50



086-041

Hood Insulation Clip,

2" Head Dia.
1/4" Hole Dia.
.125/.3125" Panel
9/16" Lgth. Under Head

PKG QTY. 25

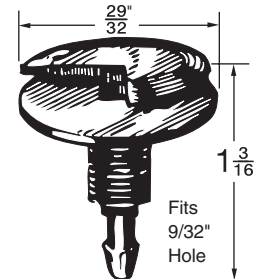
For CHRYSLER PRODUCTS CARS

086-623

(387496-S)

Trim Panel Clip:
Chrysler Products '76/.

PKG QTY. 25

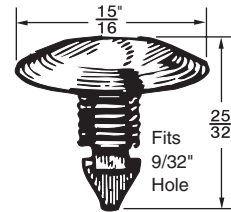


086-627

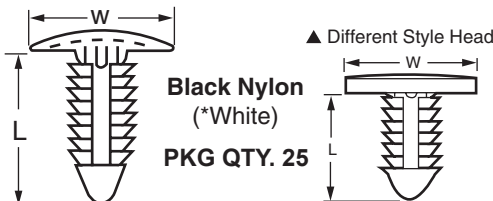
(6003423)

Interior Trim Panel Retainer:
Chrysler Products '77/.

PKG QTY. 50



RATCHET FASTENERS



Black Nylon
(*White)
PKG QTY. 25

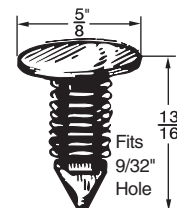
SPAENAUR No.	Lgth.	Wdth.	Hole Dia.	Panel Thick
086-008	.437"	.750"	.250"	.290-.030"
*086-038	.437"	.750"	.250"	.290-.030"
▲086-040	.480"	.437"	.187"	.312-.030"
086-010	.800"	.700"	.250"	.560-.110"
086-009	.820"	1.00"	.406"	.565-.115"

086-631

(6003587)

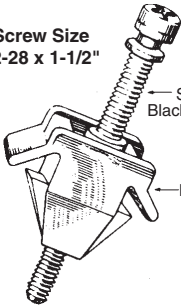
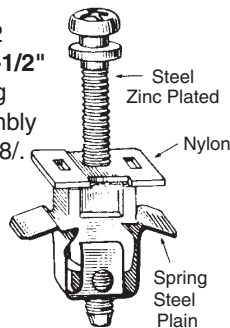
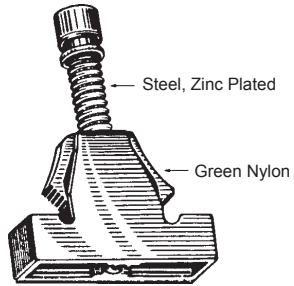
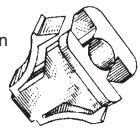
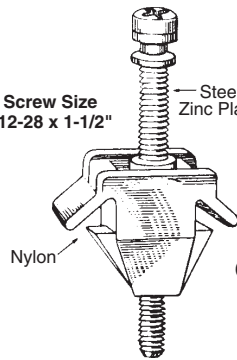
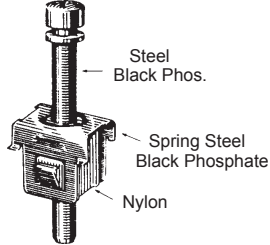
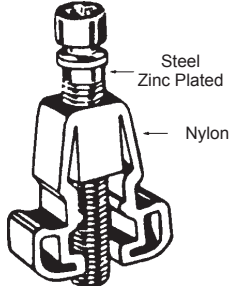
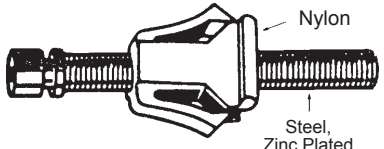


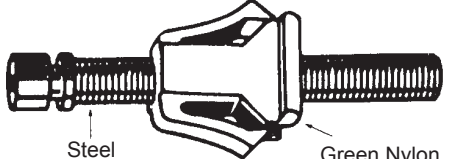
Headlining Trim Retainer:
Chrysler Products '77/.

PKG QTY. 50



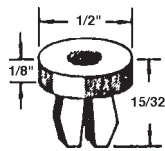
CATALOG 14

SPAENAUR

<p>Screw Size 12-28 x 1-1/2"</p>  <p>Steel Black Phosphate Nylon</p> <p>599-029 Replaces 3868551 Headlight Screw and Nut Assembly Chrysler Le Baron and Dodge Diplomat '77/. PKG QTY. 25</p>	<p>599-030 Replaces 2785842 Screw Size 12-28 x 1-1/2" Headlight Adjusting Screw and Nut Assembly Chrysler Products '68/. PKG QTY. 25</p>  <p>Steel Zinc Plated Nylon Spring Steel Plain</p>	 <p>Steel, Zinc Plated Green Nylon</p> <p>599-047 (556539) Thread Size 12-28 x 1-3/8" Headlamp Adjusting Screw & Nut Assembly BUICK: '77-'79 OLDSMOBILE: '77-'79 (All A-body Models) PKG QTY. 25</p>
<p>Nylon</p>  <p>599-035 Replaces 365270 For 12-28 Screws Nut, Headlamp Adjusting For use on fibreglas panels General Motors Cars PKG QTY. 50</p>	<p>Screw Size 12-28 x 1-1/2"</p>  <p>Steel Zinc Plated Nylon</p> <p>599-032 Replaces 3868985 (Black) Headlight Adjusting Nut and Screw Assembly Chrysler Products, Diplomat and Le Baron '78/. PKG QTY. 50</p>	<p>599-047 (556539) Thread Size 12-28 x 1-3/8" Headlamp Adjusting Screw & Nut Assembly BUICK: '77-'79 OLDSMOBILE: '77-'79 (All A-body Models) PKG QTY. 25</p>
 <p>Steel Black Phos. Spring Steel Black Phosphate Nylon</p>	 <p>Steel Zinc Plated Nylon</p>	<p>599-050 CHEVROLET (343543) BUICK (354076)</p>  <p>Nylon Steel, Zinc Plated</p>
<p>599-040 (D7AB-13A093AA) M6 x 1.00 x 48 mm Phos. - Nylon - Steel Headlight Screw & Nut FORD PROD.: Lt. & med. truck '77-'78 and Econoline PKG QTY. 10</p>	<p>599-049 (1606642) Thread Size 1/4"-28 x 1-7/8" Headlamp Adjusting Nut & Screw Assembly CADILLAC: '76-'79 OLDSMOBILE: '77-'79 PKG QTY. 10</p>	<p>Thread Size 1/4"-28 x 2" Headlight Adjusting Screw and Nut Assembly CHEVROLET, BUICK: '75-'77 PKG QTY. 10</p>
		 <p>Steel Zinc Plated Green Nylon</p>
<p>599-043 (311 941 141A) Size M5 x 40 mm Dog Point Zinc Plated Metric Headlamp Adjusting Screw Volkswagen: '69-'77 PKG QTY. 10</p>	<p>599-053 Thread Size 1/4"-28 x 2" Zinc Plated CHEVROLET: (343543) BUICK: (354076) PKG QTY. 25</p>	<p>Thread Size 1/4"-28 x 2" Headlamp Adjusting Nut with Screw Cars with Fiberglass Panels GM Cars: 1977-79 PKG QTY. 25</p>

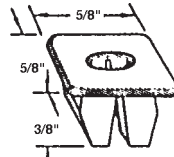
NYLON - License Fastener Parts

Suggested Screw Size is for Tapping Screws.



N-164P
(3783006)
PKG QTY. 50

Use Screw Size No. 8
License Plate Nut
CHEV. '61-'63



C-688P
(1196781)
PKG QTY. 50

Screw Size No. 14 or 1/4"
Plastic Rear License Plate Nut
BUICK '61

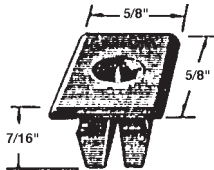
NYLON FLAT WASHERS



SPAENAUR

No.	Bolt Size
W-5003	No. 10
W-5004	1/4"

PKG QTY. 100

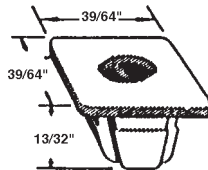


N-267P
(4755299)

Screw Size No. 14 or 1/4"
Front & Rear License Plate Nut
PONTIAC '59, '63-'65
CADILLAC '65

Rear License Plate Nut
Grille to Radiator Nut
CHEVROLET '60-'61

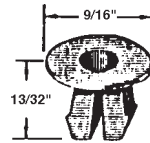
PKG QTY. 50



N-264P
(6023925)

Screw Size No. 12 or 14
License Plate Nut
Use with B-1399 Screw
ALL CHRYSLER PRODUCTS '63-'64

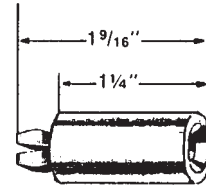
PKG QTY. 50



225-K01-1M
(380370)

Screw Size No. 14
License Plate Nut
Use with
No. 14 x 1/2"
(ST-464-P)

PKG QTY. 50



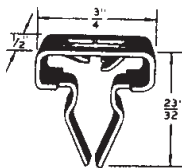
N-222P
(3863669)

Screw Size No. 8 or 10
License Plate Spacer

PKG QTY. 25

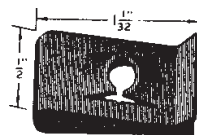
See also...Nylon Screws, Pages B23, B24, B53 to B54.
Nylon Hex Nuts, Page C8. Nylon Washers, page D10.

METALLIC - License Fastener Parts



TN-108
14A

Fits 3/8" hole
PKG QTY. 50



2293
1/4"-20

U-type Speednut
PKG QTY. 100



B-1544 (1/2")
B-1545 (3/4")

1/4"-20 Truss Hd.
Bolt
PKG QTY. 100



Pan Head
Tapping Screw

B-1336 14 x 2-1/4"
ST-11P 14 x 2-1/2"
PKG QTY. 50



ST-464P

14 x 1/2"
Pan Head
Tapping Screw
PKG QTY. 100



43-143

14 x 5/8"
Pan Head
Tapping Screw
PKG QTY. 50



B-1399

14 x 5/8"
Truss Head
Tapping Screw
PKG QTY. 50

Thread-cutting Screw



B-478

Pan Head
10-24 x 1/2"



492-C24-1X

Truss Head
10-24 x 3/8"

PKG QTY. 100

H

Product	Inch	Metric	Product	Inch	Metric
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B			N		
Bindings & Welts	H31		Music Wire	H21	
Button Plugs For Holes	H2-4		P		
C			Nail-On Cable Straps	H26	
Cable Clamps	H22-29		S		
Christmas Tree Fastener	H32		Screws		
Clamps, Tubing & Wiring	H26-28		Automotive	H34	
Clips			Headlamp	H33	H33
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Spring	H30		Galvanized	H31	
Throttle-Rod	H30		Tips, Webbing & Welt	H31	
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D			W		
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E			Wire, Music	H21	
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F			H		
Fenderwelt	H31		Screws		
Fittings, Grease	H11-15	H14-15	Automotive	H34	
G			Headlamp	H33	H33
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Headlamp Screws & Nuts	H33	H33	Throttle Rod Clips	H30	
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L			Galvanized	H31	
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			Tubing & Wiring Clips & Clamps	H22-29	
			Tubing, Thread Adapters		H10

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