

STOLP

Starduster

CORP.



AIRCRAFT SUPPLIES & MATERIALS
LOWEST PRICES — FAST SERVICE
PHONE (714) 686-7943

STOLP STARDUSTER CORPORATION
4301 TWINING, FLABOB AIRPORT
RIVERSIDE, CALIFORNIA 92509

PLANS FOR:

ACRODUSTER I
ACRODUSTER II
STARDUSTER TOO
V-STAR

STARLET
KNIGHT TWISTER
FOKKER D-VII

SHIPPING

PARCEL POST

Service Area

—Entire world except where prohibited by law.

Limitations

—Maximum weight per package — 40 pounds
Maximum size per package — 84" combined length and girth
(To Canada 72" max. and no COD)

AIR PARCEL POST—Maximum 100" length plus girth. No weight limit.

UNITED PARCEL SERVICE

Service Area

—Entire United States & Ontario, Canada

Limitations

—Maximum weight per package — 50 pounds
No maximum number of packages per day
Maximum size per package — 108" combined length and girth
Minimum charge for a package measuring over 84" in combined length and girth will be equal to charge for package weighing 25 pounds.
Street address only. No P.O. Box number.

UNITED PARCEL SERVICE — BLUE LABEL (AIR)

Service Area

—United States Only

Limitations

—Same as United Parcel Service, regular.
Street address only. No P.O. Box number.

TRUCK

Service Area

—Entire United States & Canada

Limitations

—Minimum weight charge of 100 to 150 pounds.

BUS

Service Area

—Entire United States

Limitations

—Maximum weight per package—100 pounds
Maximum size per package—No larger than 60" in any dimension.
Street address and telephone number is needed.

Freight Charges by truck sent collect except to New York and Massachusetts. In these areas please send extra money. Also send money for shipments going via Post Office, United Parcel Service, and Bus. Any excess will be credited to your account or refunded on request.

Overseas Shipments sent by vessel unless otherwise specified. Consult for Crating charge.

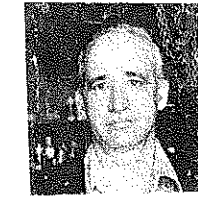
Please add 5% **packing charge**, Minimum of 50¢ and Maximum \$10.00, unless packaged price is shown.

Re-Stocking charge of 15% on returned merchandise unless order was filled incorrectly. Return merchandise limit — 30 days.

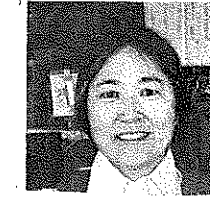
For economy in shipping please specify shortest possible lengths you can use.

Californians, please add 6% sales tax.

WE WHO ARE HERE TO SERVE YOU



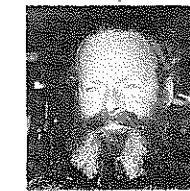
Jim Osborne - President. Incompetent, absent minded type, who likes to design airplanes. Carried by the talent and dedication of the other people who work here.



Hanako Osborne - Secy-Treas. Attended college in Tokyo & Acct. School in the States. In charge of making mistakes in the Bookkeeping Department.



Eric Shilling -Gen. Mgr. - Flying Tiger Pilot. Airline Capt., Test Pilot, Race Pilot, Homebuilder. Good problem solver.

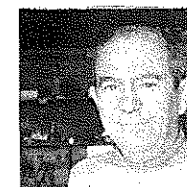


Bill Clouse - Shop Foreman - Air Force Ret. 27 yrs in Aviation. With Starduster since 73. Comm. pilot, Parachute Rigger & Sport Parachutist W/ Gold Wings.

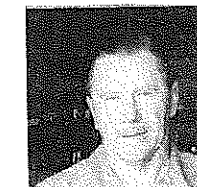


Norman Eaves - Assistant Foreman-Retired Air Force. 25 yrs in the Aircraft and Engine maintenance field. With Starduster since 75.

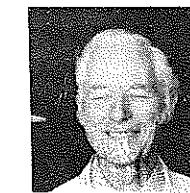
"STARDUSTER" PRESENTS, WITH PRIDE, THE FOLLOWING DISTINGUISHED ASSOCIATES



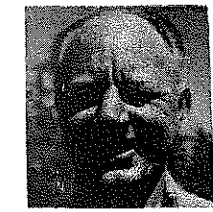
Lou Stolp - Designer of Starduster 1, 11 & Starlet. Founder of Stolp Starduster Corp. Aids in design of new Aircraft.



Morgan Schrack - Primarily responsible for concept & design of Acroduster Too prototype. Flies for TWA as Senior Capt.

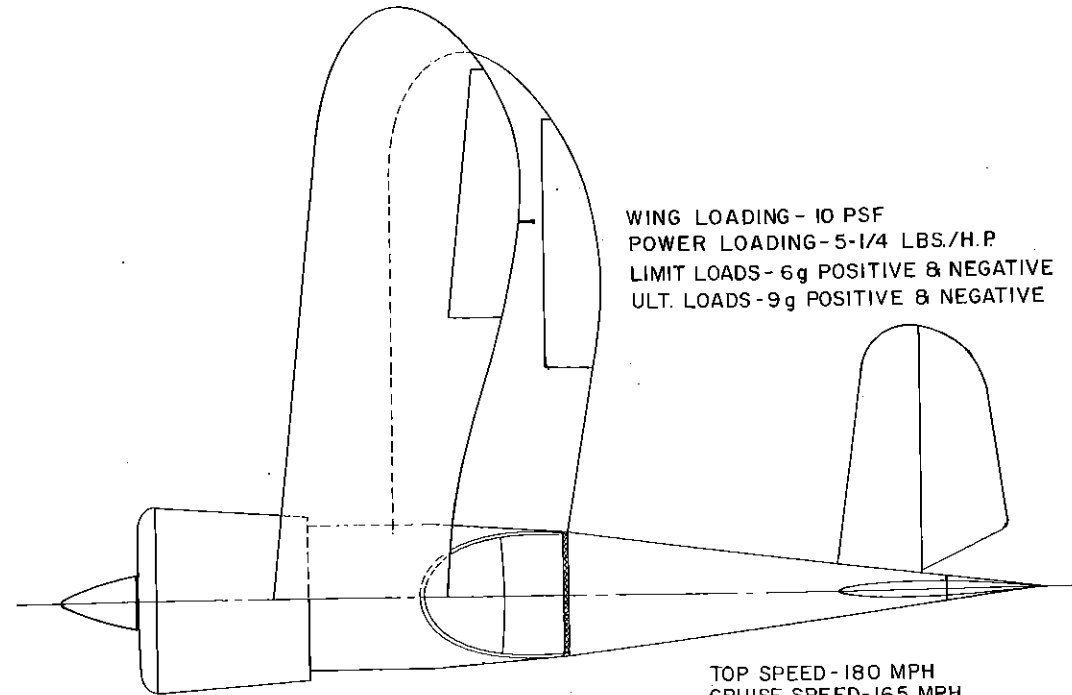
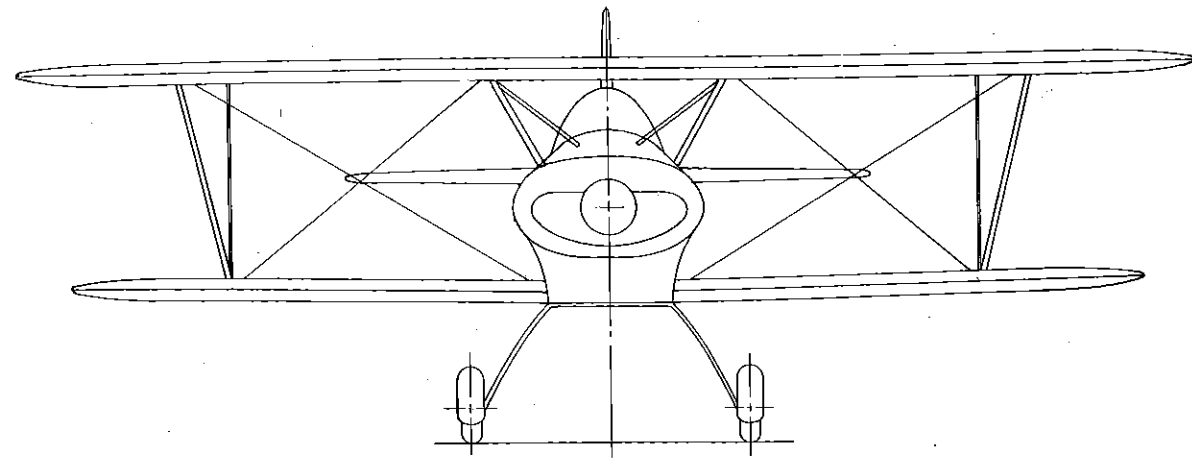


Vernon Payne - Almost legendary designer of Knight Twister. Assists in the design of new air craft.



Herbert Kelly - Graduated, Naval Flight School & School of Eng. Univ. of Washington. Hobby-Study of Fokker WW 1 Aircraft.

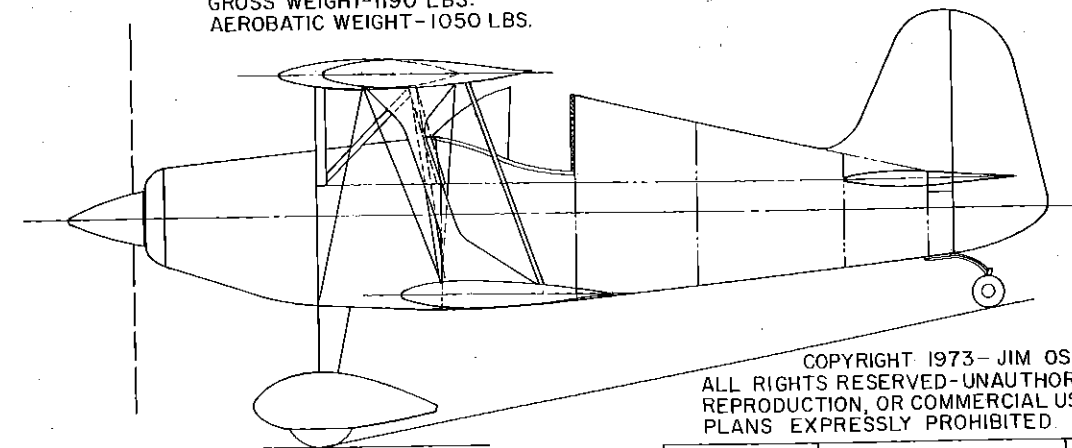
When building an airplane, a foremost question is where to buy parts and materials. We recommend STOLP STARDUSTER CORP. We are a company of Aircraft builders and designers, and maintaining high standards of quality control is a way of life here. Our Certified Spruce exceeds FAA standards. All our 4130 steel is certified to be of aircraft quality. We maintain quality control over our supplies, and our products are guaranteed. Many parts and components, put out by people willing to exploit our designs and our customers, are substandard to the point of being dangerous. **BE SURE-BUY STARDUSTER**



WING LOADING - 10 PSF
 POWER LOADING - 5-1/4 LBS./H.P.
 LIMIT LOADS - 6g POSITIVE & NEGATIVE
 ULT. LOADS - 9g POSITIVE & NEGATIVE

ENGINE - 125 THRU 200 H.P. LYC.
 FUEL CAPACITY - 25 GALLONS
 EMPTY WEIGHT (200 H.P.) - 740 LBS.
 USEFUL LOAD - 450 LBS.
 GROSS WEIGHT - 1190 LBS.
 AEROBATIC WEIGHT - 1050 LBS.

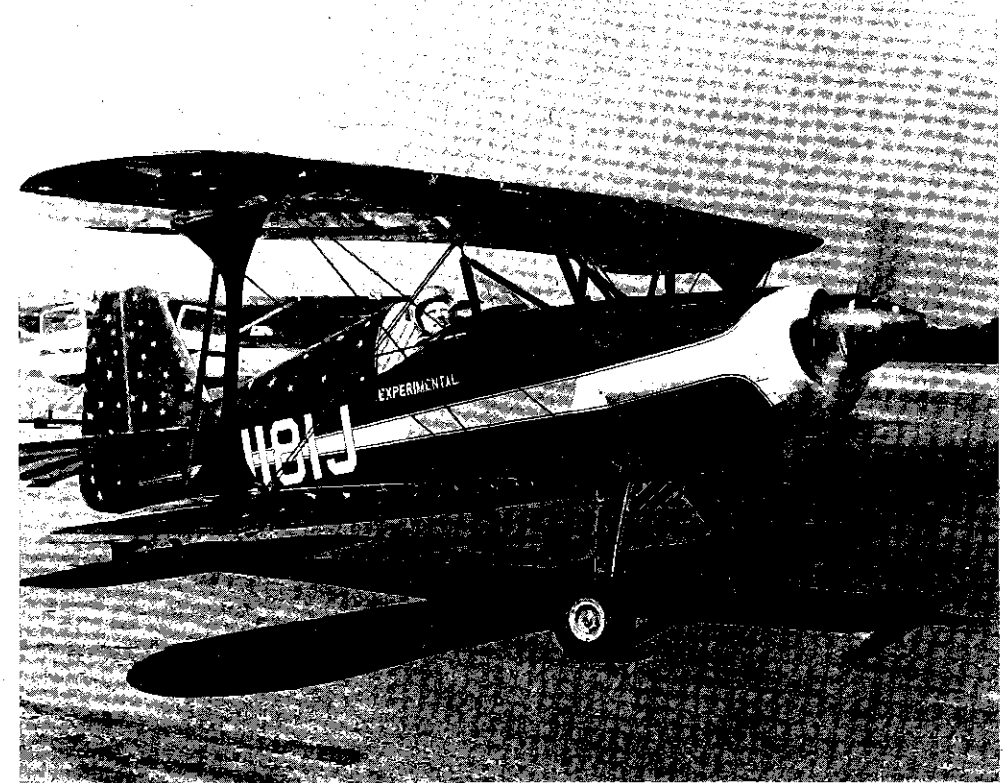
TOP SPEED - 180 MPH
 CRUISE SPEED - 165 MPH
 STALL SPEED - 70 MPH
 CLIMB - 3000 FPM+
 RATE OF ROLL - 240°/SEC.+
 AIRFOIL - OSBORNE A-1



COPYRIGHT 1973 - JIM OSBORNE
 ALL RIGHTS RESERVED - UNAUTHORIZED
 REPRODUCTION, OR COMMERCIAL USE OF THESE
 PLANS EXPRESSLY PROHIBITED.

SPAN ----- 19'0"
 LENGTH ----- 15'9"
 HEIGHT ----- 6'3"
 WING AREA ----- 105 SQ. FT
 SWEEP BACK ----- 6°

| | | |
|----------------------|------------------------------------|-------------|
| SCALE: 1/12 | GENERAL ARRANGE- | |
| DATE: 4-8-73 | MENT -- 3 VIEW | |
| DRAWN: J. Osborne | MODEL SA700 | |
| SYNOPSIS: J. Osborne | STOLP STARDUSTER CORPORATION | |
| CHECKED: J. Osborne | 4301 TWINING, RIVERSIDE, CA. 92509 | SHEET NO. 1 |



The ACRODUSTER I SA700 is designed for unlimited aerobic competition. It is also a nice sport plane, when powered by 125-160 H.P. engines.

The prototype is powered by a 200 H.P. Lycoming, with a Hartzell C/S aerobic prop. It also has a full electrical system. Empty weight of the prototype is 906#. With no electrical system, and a fixed pitch prop, weight would be around 740#.

Prototype performance is spectacular. It has a guaranteed roll rate of 240° per second. Time to climb from brake release to 3000' is one minute and 20 seconds, indicated cruising speed is 160 MPH at 24-24, power off stall speed is around 75 MPH.

Handling characteristics are superb. It has no detectable adverse yaw, or left turning tendency. The ailerons are effective all the way thru a stall. It spins easily and recovers easily, upright or inverted. Vision over the nose is good. It lands easily and tracks straight ahead. The rudder is effective thru out the roll out.

It can be built easily and quickly, with the complete materials package available from "STARDUSTER". The aluminum fuselage skins are sheared to size, and all straight flanges are bent. Landing gear, fuel tank, and motor mount are furnished ready to install. Everything you need to build the airframe, except for engine, and propeller, is furnished.

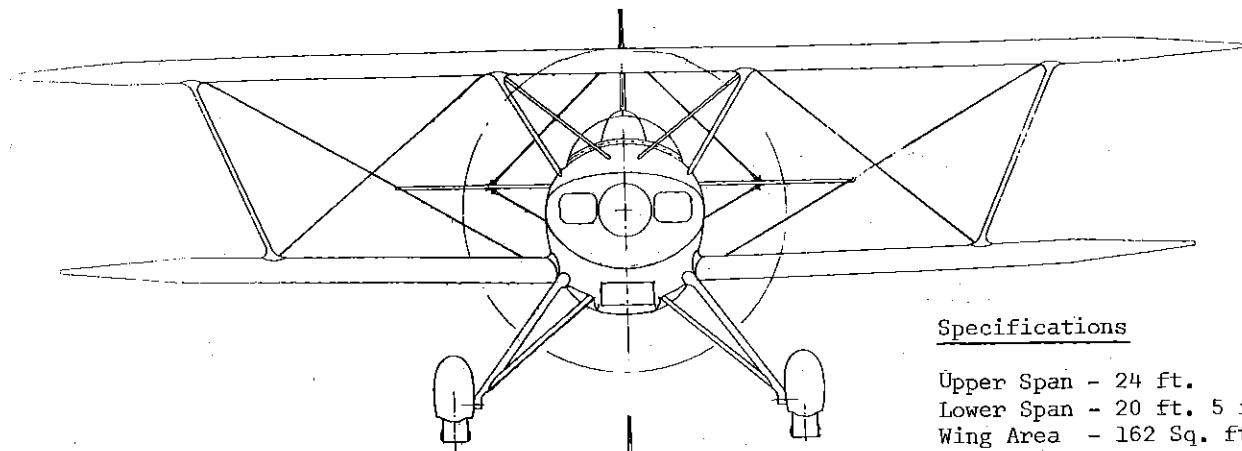
Your orders will receive prompt attention.

With best wishes,

BROCHURE: \$5.00
 Materials kit: \$ 7800.00

Stolp Starduster Corporation
 4301 Twining
 Riverside, California 92509

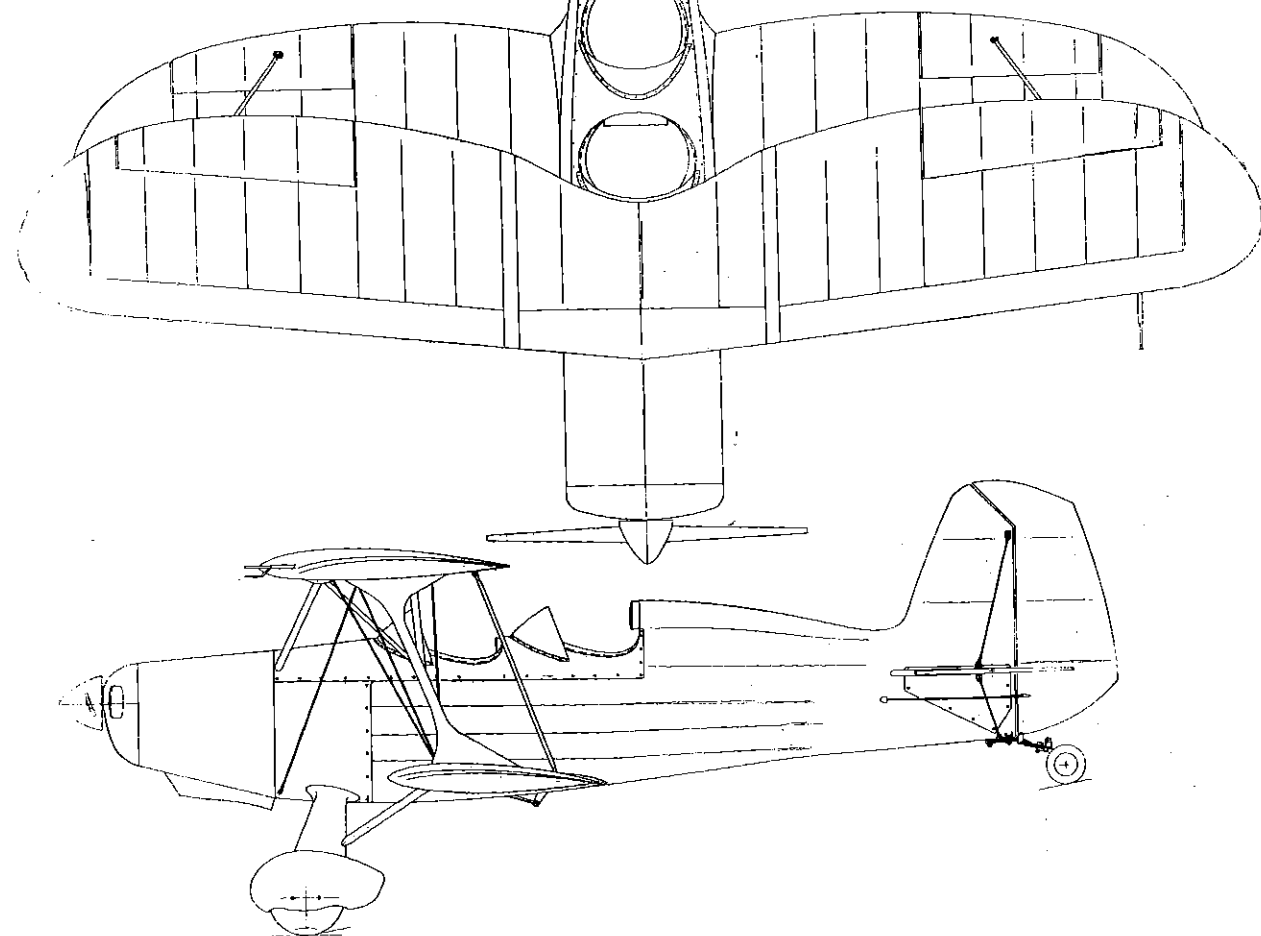
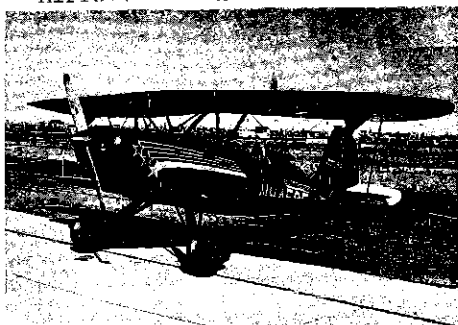
Jim Osborne



Engine - Lycoming O-360 AIA
180 HP
125 to 260 HP acceptable
Speed at 5000 ft. over 150 MPH
Stall under 50 MPH
Solo rear seat
Empty weight 1000 lbs.
Material kits and materials
available at reasonable
prices.

Specifications

Upper Span - 24 ft.
Lower Span - 20 ft. 5 in.
Wing Area - 162 Sq. ft.
Incidence - 1° lower wing
Dihedral - 1 1/2° lower wing
Airfoil - M6



The STARDUSTER TOO was built to fill a need for a reasonably sized, two-place, open sport biplane. It was built to fly just for fun and is not intended to be an aerobatic airplane. It is quite strong, however, and many owners use the aircraft for aerobatic flight, but this is beyond the original concept of the machine. Stability is good and the light wing loading makes slow landing speed and short-field operation outstanding.

The main structure of the airplane is built of 4130 steel tubing and sheet stock and has no machined fittings or other complicated bends which is an advantage for the average homebuilder with limited machine equipment to use. The wings have spruce spars and the ribs are made of 1/4" plywood using a modified M-6 airfoil. Construction of the plane has been kept as simple as possible and it goes pretty well.

The drawings are printed on an offset press so they will not fade and shrinking is held to a minimum. The prints are quite complete with ribs and most fittings full size which saves considerable time on construction of these parts.

The O-360 Lycoming is the best optimum size engine either in the 180 HP or the 200 HP version. Quite a few Starduster Too aircraft have been constructed with as much as 260 HP, however, the larger engine versions necessarily bring the empty weight of the aircraft up which exceeds the design gross weight when the airplane is loaded.

All raw materials as well as certain prefabricated parts such as fiberglass turtlebacks, nosecowls, wheel pants, cockpit cowlings, welded aluminum fuel tanks, plexiglass windshields, and so forth are available at reasonable prices. Most items are in stock at all times.

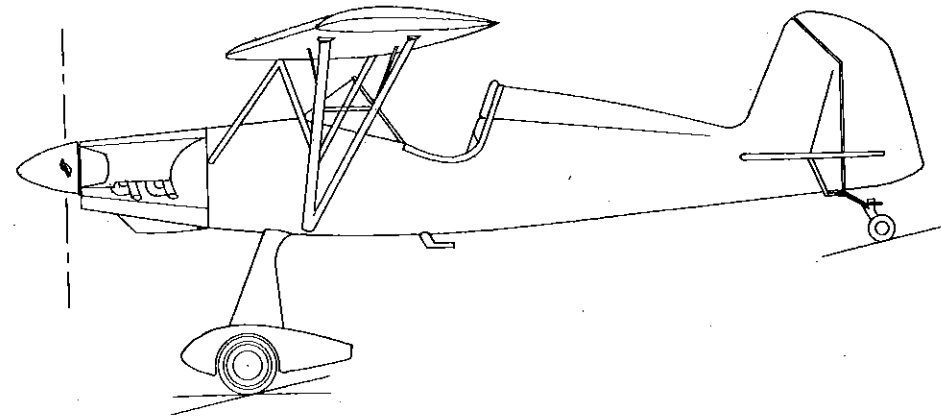
The SA300 would be classed as a small airplane but by no means a little one. It is large enough to do the job expected of it. It is easy and fun to fly and the plane handles as well in the air as on the ground.

Very truly yours,

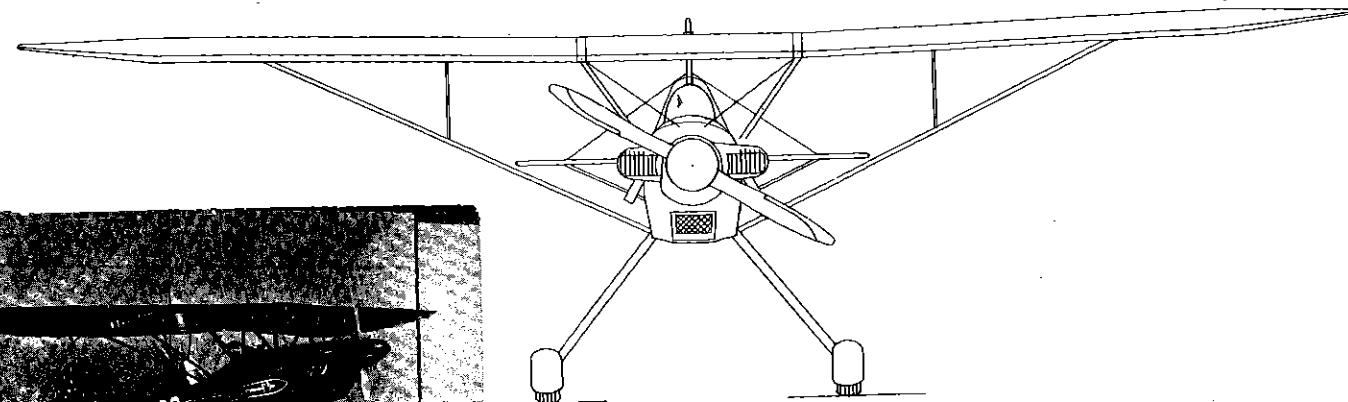
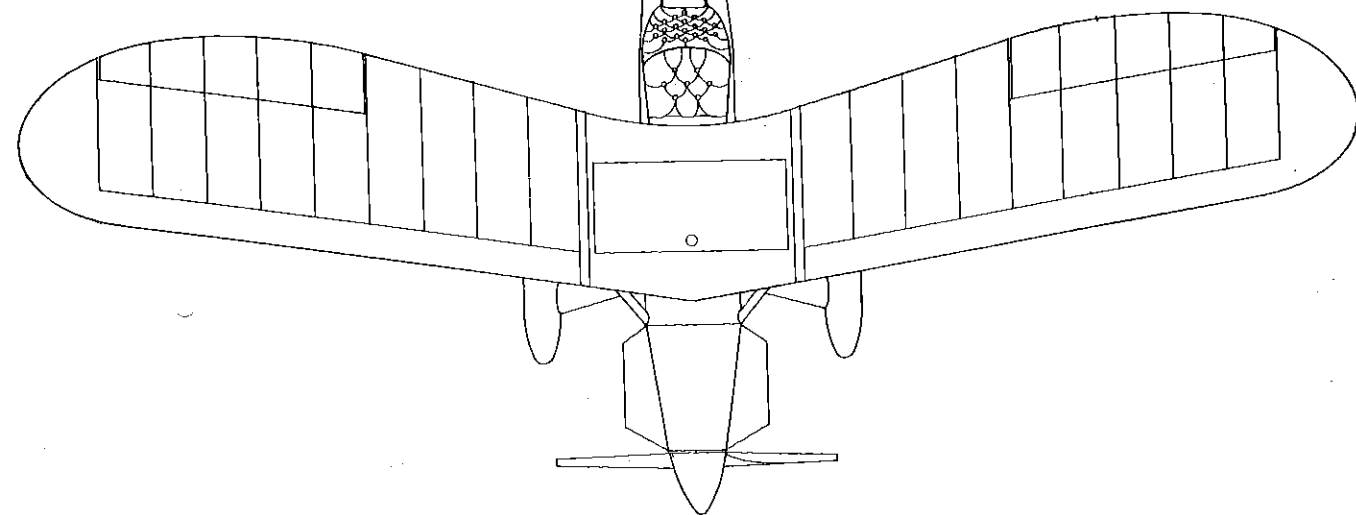
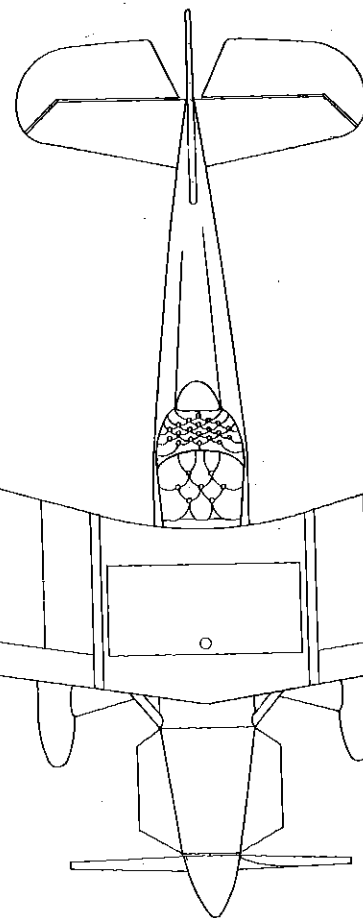
Louis A. Stolp

STOLP STARDUSTER CORP.

4301 Twining, Flabob Airport
Riverside, California 92509



| | |
|-----------|-------------|
| SPAN | 25 FT. |
| LENGTH | 17 FT. |
| HEIGHT | 6 FT. 8 IN. |
| AREA | 83 SQ. FT. |
| SWEEPBACK | 9° |
| INCIDENCE | 3 1/2° |
| AIRFOIL | CYH |



STOLP STARLET SA500



The STARLET SA500 is easy and economical to build and fun to fly. It is stable, relatively fast, and the parasol wing makes it especially suitable for operating out of rough fields. Although a small airplane, the Starlet has a roomy cockpit suitable for a large man.

Construction follows standard Stolp Starduster practice. All basic structure except the wing is made of 4130 steel tubing. The wing uses spruce spars and plywood ribs with capstrips. The airfoil is a Clark Y, High Lift.

Optimum engine is the 108 HP Lycoming. However, engines of 85 HP to 125 HP may be used.

The drawings are quite complete and easy to follow with ribs printed to full size. The drawings are printed on an offset press so they will not fade and shrinking is held to a minimum.

All raw materials are available from Stolp Starduster Corporation at reasonable prices. In addition, we can furnish fiberglass turtlebacks, nose cowls, wheel pants, windshields, aluminum fuel tanks, etc. Most items are in stock at all times.

Please address orders and inquiries to:

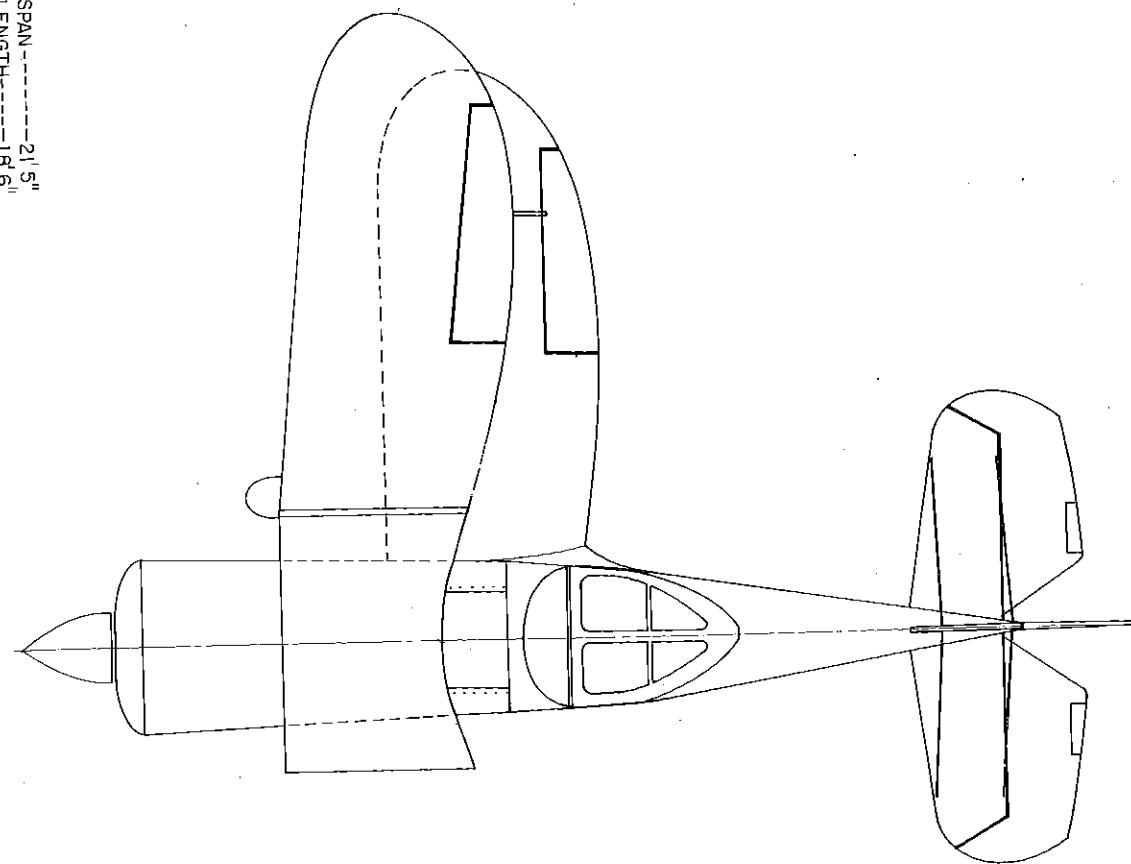
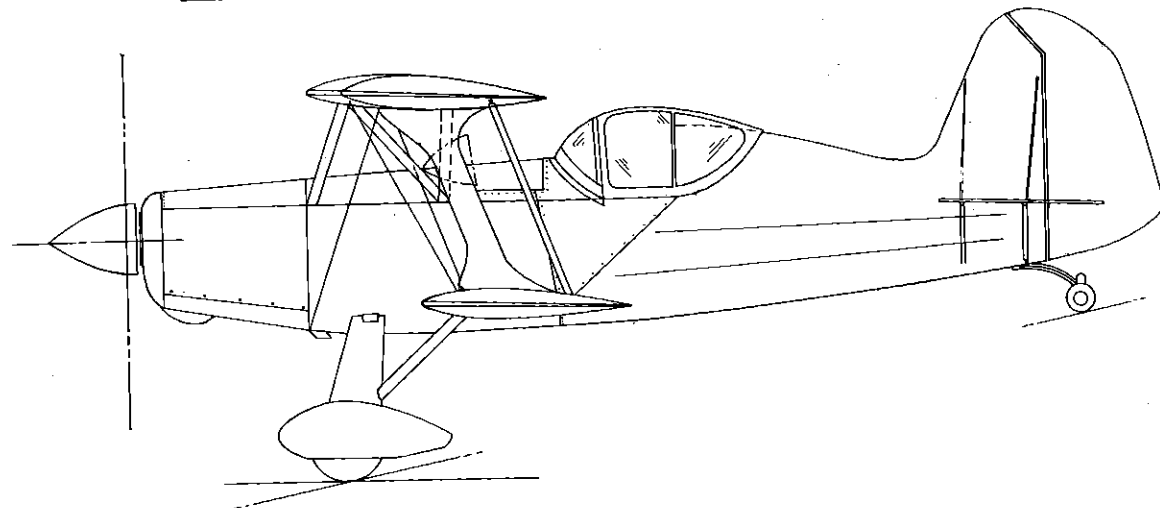
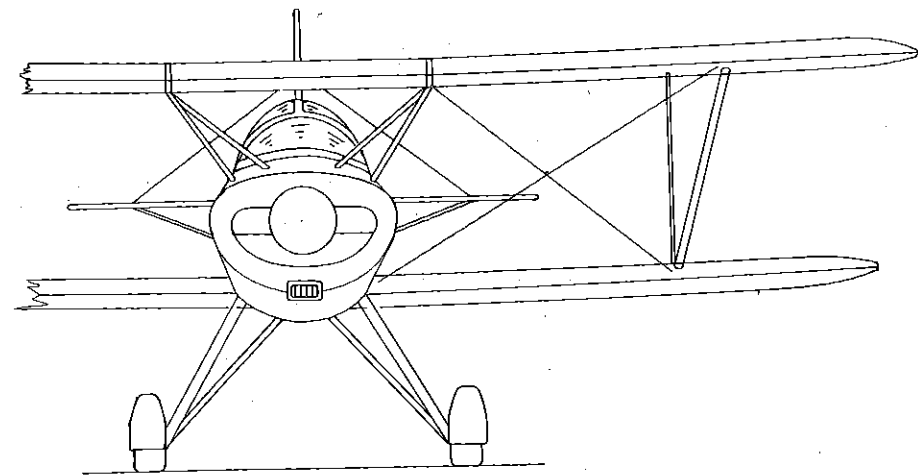
STOLP STARDUSTER CORPORATION
4301 Twining, Flabob Airport
Riverside, California 92509

Your needs and requirements will receive prompt attention.

Very truly yours,

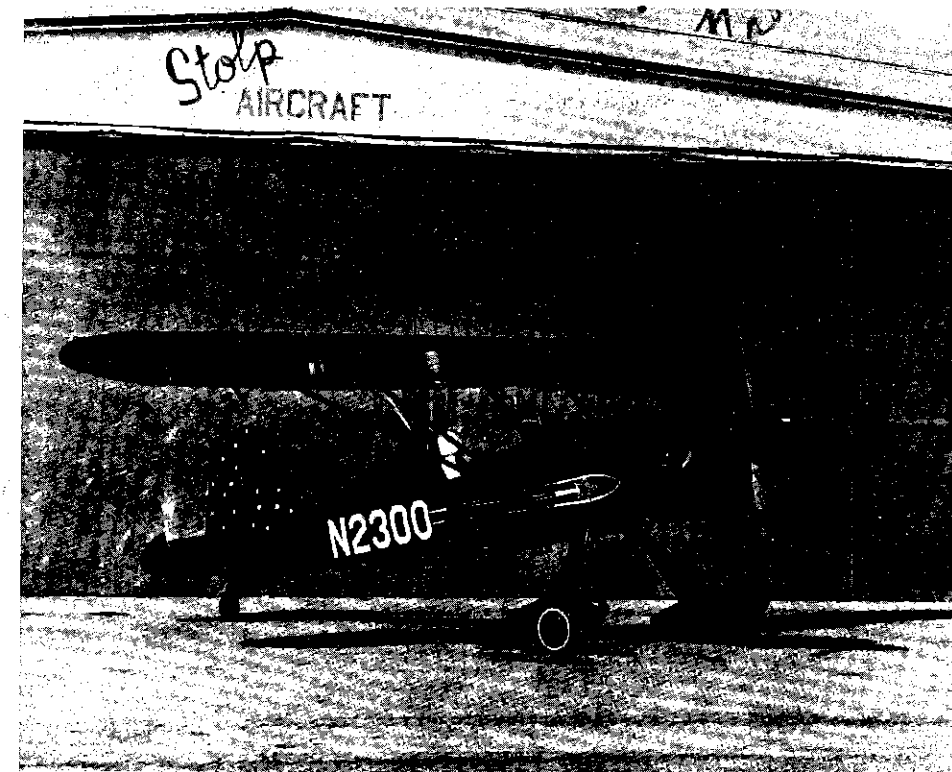
Louis A. Stolp

Louis A. Stolp



SPAN-----21' 5"
 LENGTH-----18' 6"
 HEIGHT-----6' 10"
 WING AREA-----130 SQ. FT.
 SWEEP BACK-----6°

| | | |
|-----------------------|---|---------------------------------|
| SCALE | GENERAL ARRAN- | S T P A R T S |
| DATE: 7-18-72 | GENERAL - 3 VIEW- | |
| DRAWN BY: [Signature] | MODEL SA 750 | S T P A R T S |
| CHECKER: [Signature] | STOLP & STARDUSTER CORPORATION 4301 TWINING AVENUE, CA 92509 | |



The STARLET SA500 is easy and economical to build and fun to fly. It is stable, relatively fast, and the parasol wing makes it especially suitable for operating out of rough fields. Although a small airplane, the Starlet has a roomy cockpit suitable for a large man.

Construction follows standard Stolp Starduster practice. All basic structure except the wing is made of 4130 steel tubing. The wing uses spruce spars and plywood ribs with capstrips. The airfoil is a Clark Y, High Lift.

Optimum engine is the 108 HP Lycoming. However, engines of 85 HP to 125 HP may be used.

The drawings are quite complete and easy to follow with ribs printed to full size. The drawings are printed on an offset press so they will not fade and shrinking is held to a minimum.

All raw materials are available from Stolp Starduster Corporation at reasonable prices. In addition, we can furnish fiberglass turtlebacks, nose cowls, wheel pants, windshields, aluminum fuel tanks, etc. Most items are in stock at all times.

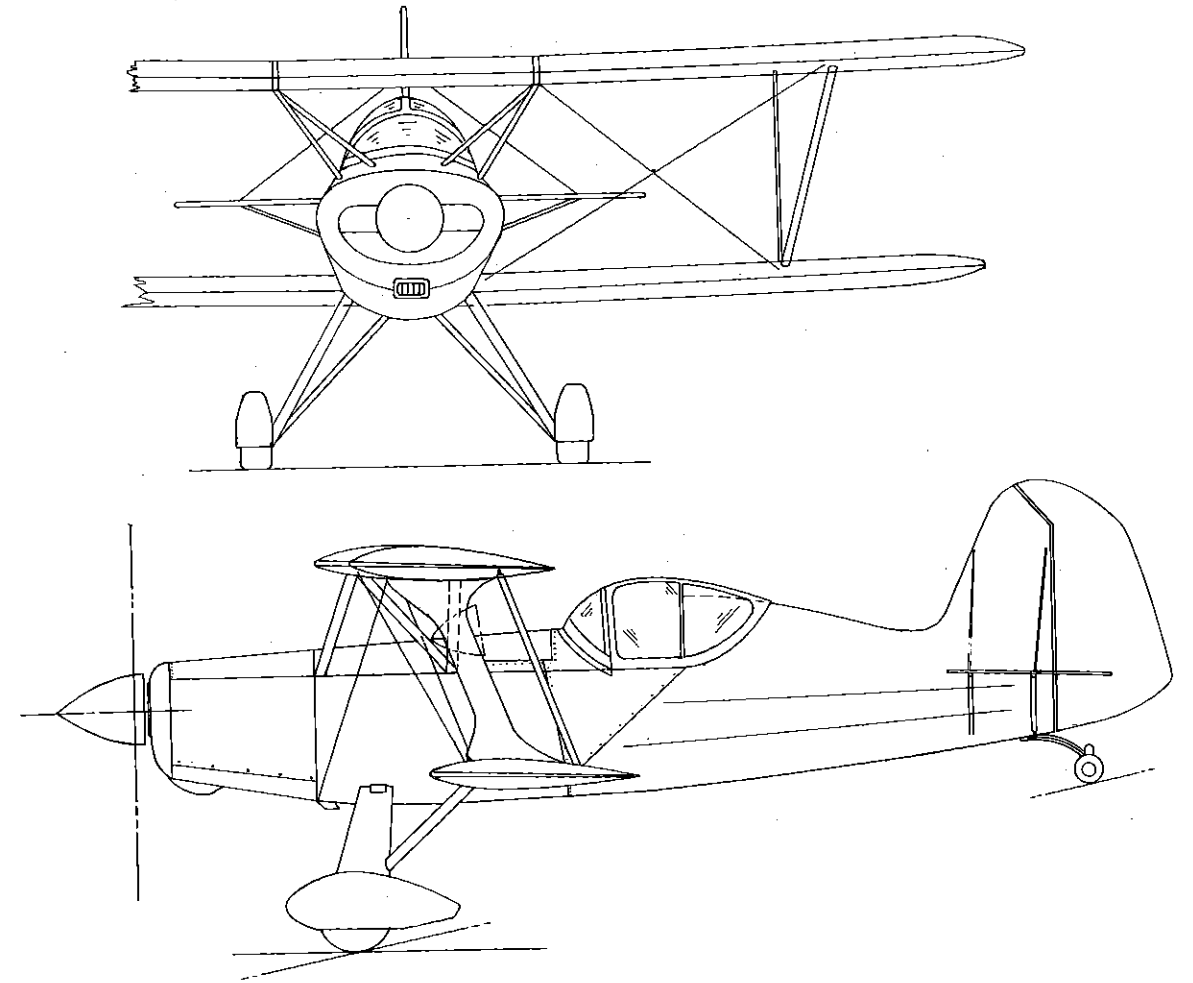
Please address orders and inquiries to:

STOLP STARDUSTER CORPORATION
 4301 Twining, Flabob Airport
 Riverside, California 92509

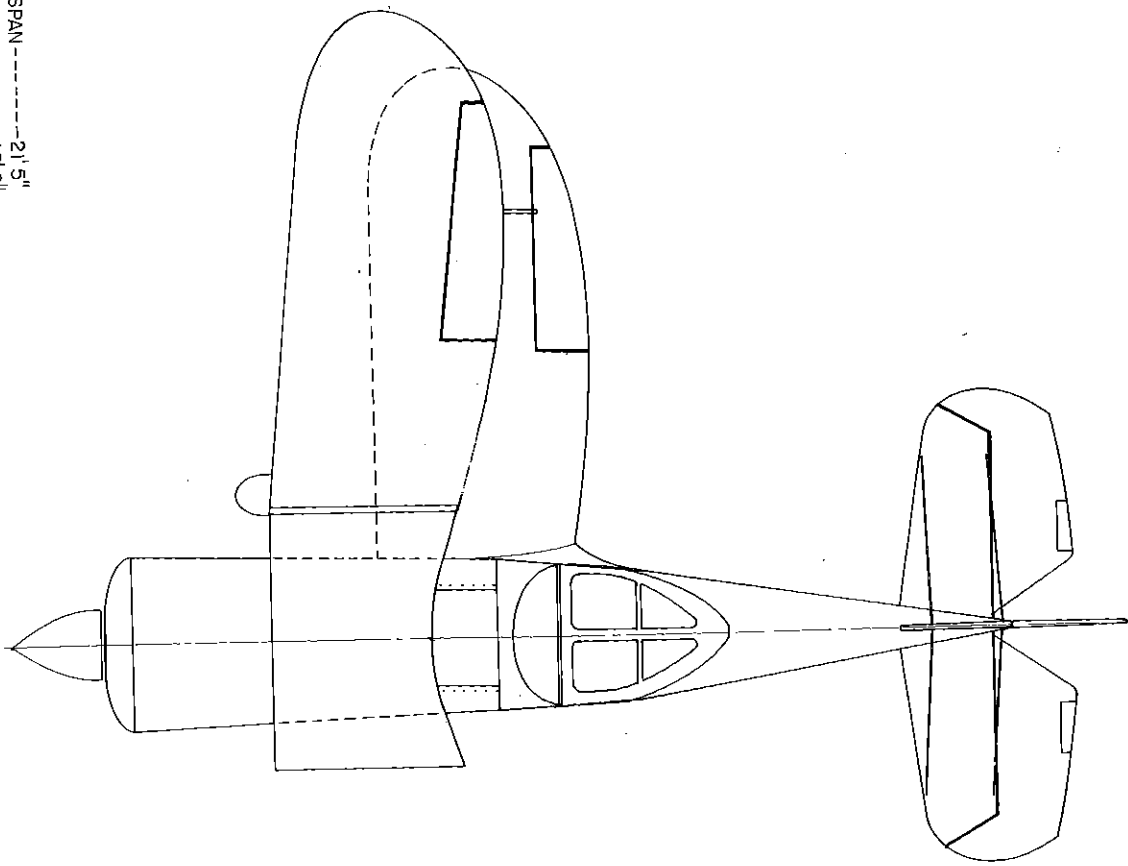
Your needs and requirements will receive prompt attention.

Very truly yours,

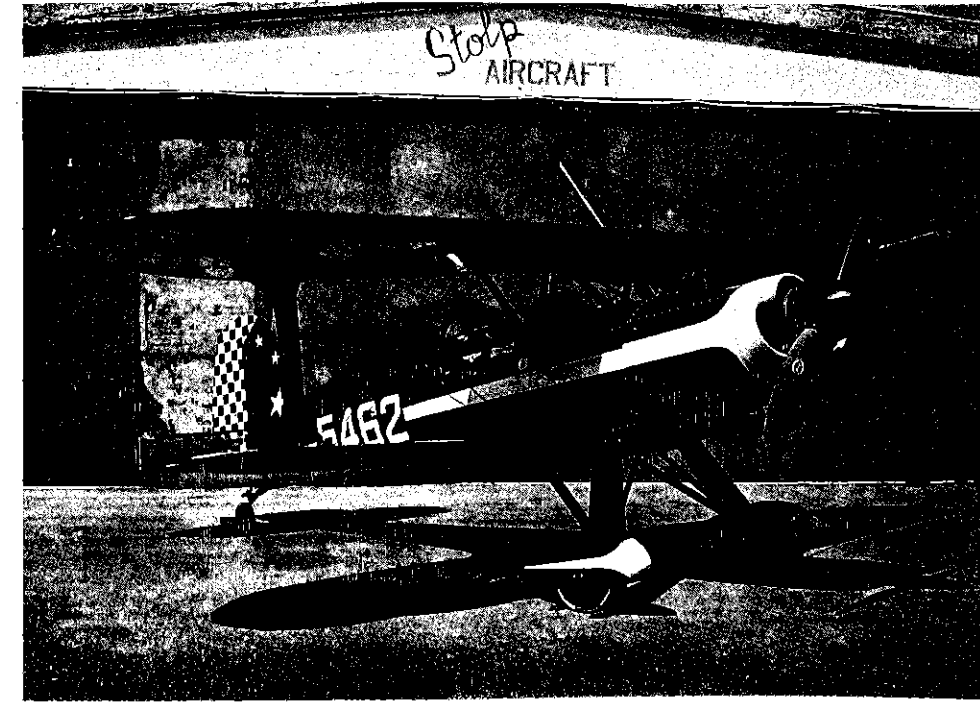
Louis A. Stolp
 Louis A. Stolp



SPAN-----21' 5"
 LENGTH-----18' 6"
 HEIGHT-----6' 10"
 WING AREA-----130 SQ. FT.
 SWEEP BACK-----6°



| | | |
|-----------------------|----------------------------------|------------------|
| SCALE: 7/8" = 1' | GENERAL ARRANGEMENT - 3 VIEW - | S T P L |
| DATE: 7-18-72 | MODEL SA750 | |
| DRAWN BY: [Signature] | STOLP STARDUSTER CORPORATION | SHEET NO. 1 |
| CHECKER: [Signature] | 4301 YVING RD. BUREAU, CA. 92506 | |



The ACRODUSTER TOO SA750 is a fully aerobatic, two place machine stressed to plus & minus 9 G's. It has modified symmetrical wings and is capable of matching aerobatic performance with any two seat airplane now flying.

The optimum engine is the fuel injected 200 HP Lycoming, with constant speed propeller. The prototype cruises about 160 M.P.H., climbs 2300 F.P.M., & stalls at 55 M.P.H. Although it has a comparatively sharp stall and sensitive Control response, Wings can be maintained in the level attitude with Rudder alone or with Aileron. This with Stick full back by reducing power to idle and zero climb until stall is obtained.

An experienced taildragger pilot would have no trouble flying the Acroduster Too, but should get both cockpit and taxi time to acquaint oneself with the airplane before T.O. I recommend that a pilot without taildragger time obtain some dual in something, like a Cessna 140 or Starduster Too.

Construction follows traditional biplane practices with steel tube structure, and spruce wing spars. Ribs are plywood with cap strips.

All materials are available from Stolp Starduster Corporation, either in kit form or as raw materials. Many items, such as gas tanks, turtlebacks, etc. are available ready to install.

Your needs and orders will receive prompt attention.

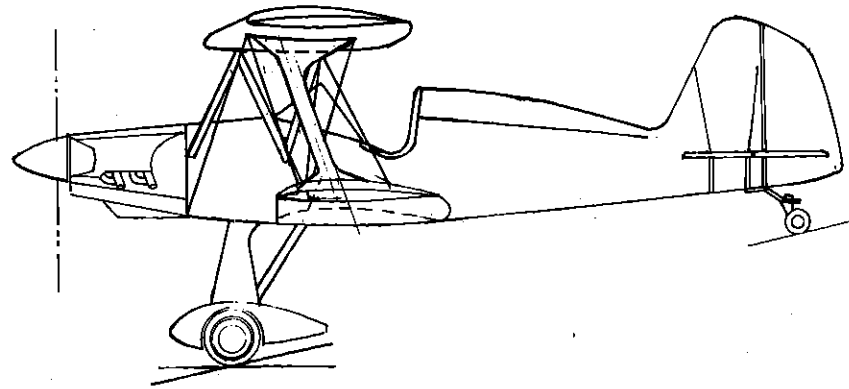
Very truly yours,

Jim Osborne

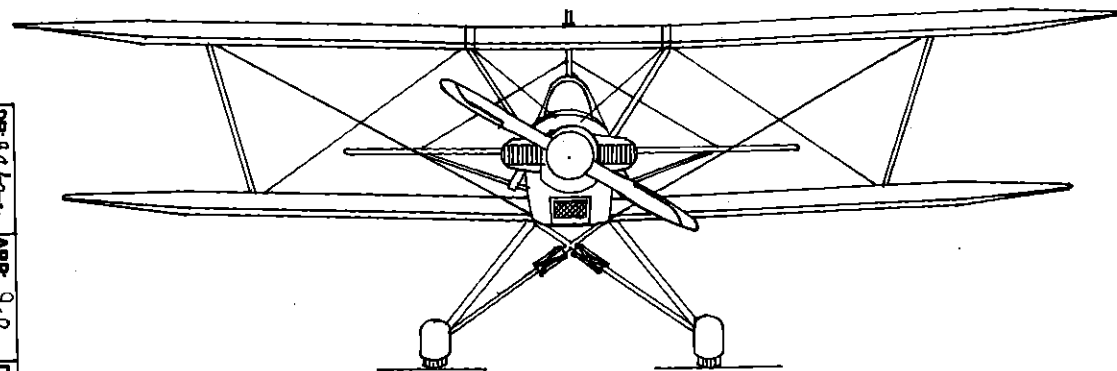
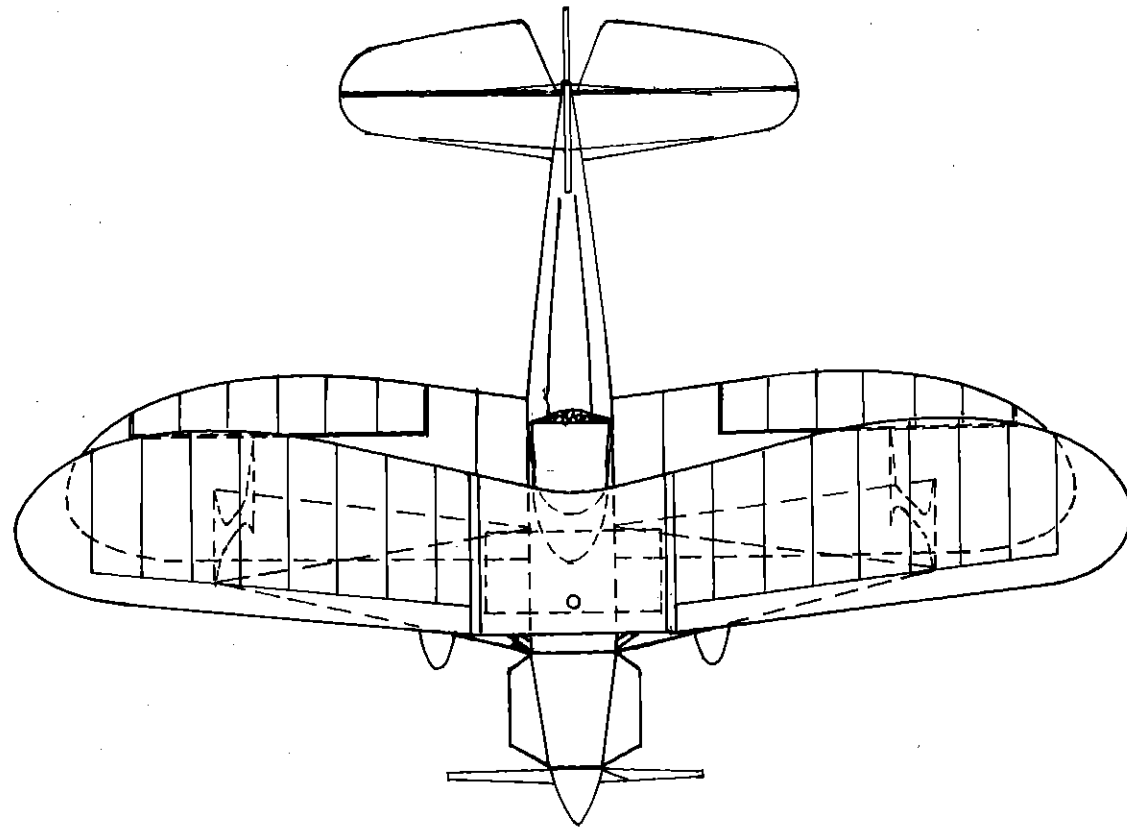
Jim Osborne
 Stolp Starduster Corporation

OPERATIONAL & TECHNICAL DATE MANUAL

By Prototype designer & builder
 Morgan Schrack \$5.65
 (\$4.95 plus \$.70 postage)



SPAN-----23'
 LENGTH-----17'2"
 HEIGHT-----7'5"
 AREA-----141 S.F.
 SWEEPBACK- 6°
 INCIDENCE:
 TOP WING---2.5°
 LOWER WING-2.0°
 AIR FOIL---CYH



DR. Osborne APR. 9. 0. DATE: 7-15-74 SHEET
 STOLP STARDUSTER V-STAR SA900 CORPORATION
 3 VIEW



At a time when both horsepower and cost are going up and up, it was considered a good time to design and introduce the V-STAR SA900 -- a low cost, low horsepower, fun machine. It is inexpensive and easy to build and is very easy to fly. The light wing loading insures a slow landing speed and a short take-off roll. Stability is excellent and ample control surfaces give rapid response to light control pressures.

The structure is stressed to withstand both plus and minus 9 G's, so it is a good Sunday afternoon aerobic machine. Horsepower may vary from 60 to 125. With the 65 HP Continental, the rate of climb is about 600 FPM, cruise speed is 75 MPH, stall speed is 35 MPH.

The fuselage is constructed of welded steel tubing, and the wings have spruce spars and plywood ribs with 1/4" cap strips. Raw material kits as well as kits with the tubing cut to length and scribed for fitting are available. Wing kits may be bought with finished spars, spar plates, ribs cut out, and fittings cut to size.

Parts such as gas tanks, turtlebacks, nose cowls, wheel pants, windshields, etc. are available ready to install.

This is a small, low cost airplane, but not a cheap one. It has the classic Starduster lines and is a beautiful machine that you will be proud to own.

Very Truly Yours,

Jim Osborne
Jim Osborne

Stolp Starduster Corporation

SUPERCOAT

PAYS FOR ITSELF WITH RESULTS

**The Answer to Lower Exterior Maintenance Cost,
Fuel Savings, More Speed and Beautiful Aircraft!**
SUPERCOAT DOES IT ALL IN ONE EASY OPERATION!
SUPERCOAT PAYS FOR ITSELF WITH RESULTS!

We use supercoat on our own airplanes. We highly recommend it. It is by far the easiest to use, longest lasting, slickest, and best looking substance we have ever used. It has my personal recommendation.

Jim Osborne

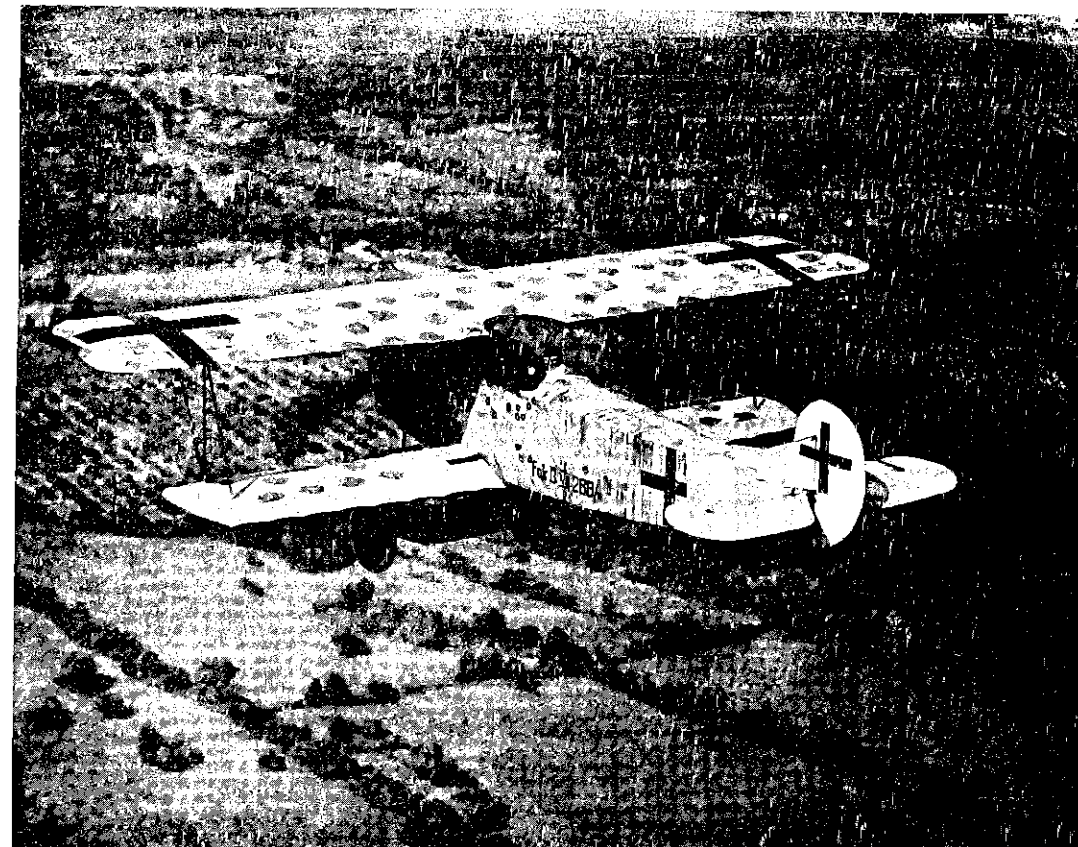
LEATHER, PLASTIC AND RUBBER TREATMENT

Recommended for all leather, plastic and rubber surfaces



Cleans, conditions and restores. Protects and beautifies. No need to wash—easy to apply. Removes all dirt and most stains. Protects against stains, soils, oils, salt and dirt. Unaffected by temperature, weather or sunlight. Prevents cracking, deterioration, and damage to finish. Three to five times more durable than conventional maintenance methods.

Half pints (8 fluid oz.) . . . \$3.50



Stolp Starduster Corporation takes pride in presenting construction plans for the 1918 Fokker D-VII powered with the 160-180 H.P. Mercedes engine. The plans are drawn and detailed with the Homebuilder of some experience in mind. The plans consist of 11 plates approximately 34" x 54" in size, blue-line Ozlid prints, and give the required details to build the complete airframe.

The plans were drawn from data obtained from various sources over a period of years. Details that were not supplied by this data were filled in with our own design, retaining the Fokker design concepts. The complete plane is stressed in conformance with the 1918 German Military design requirements.

Construction Features:

- Fuselage-- Steel tube with wire cross-bracing.
- Landing gear-- Steel tube with wire cross bracing. Ply covered airfoil. Rubber rope shocks.
- Tail Assy.-- Steel tube, fabric covered, wire and tube braced.
- Wings-- Wood wire braced. Ply covered box spars, cap stripped, ply web ribs, ply leading edge, wire trailing edge, steel tube ailerons, fabric covered.
- Engine-- 160 or 180 H.P. Mercedes 6 cylinder, weight approx. 550# wet, 1565 R.P.M.
- Weight empty--1540#. Weight loaded--1936#

Raw materials, parts, and components will be available from Stolp Starduster Corp.

Price: \$121.00. Allow one week to make up plans.

Stolp Starduster Corporation
4301 Twining
Riverside, California 92509

AIRCRAFT SURFACE TREATMENT

Recommended for use on all aircraft surfaces and finishes



Easy to apply—no washing or buffing—restores finish. Increases speed—up to 5% or more true air speed. Reduces drag and fuel consumption. Reduces risk of icing. Removes and prevents oxidation—cleans, glazes, seals and protects all aircraft surfaces. Resists insect accumulations and damage to finish—protects against rust, stains, soils, oils, snow, sleet, salt and all dirt.

Unaffected by temperature, weather or sunlight. Three to five times more durable than conventional surface maintenance products. Reduces the cost of exterior maintenance and slows depreciation.

Pints \$8.50
Quarts 16.00

AIRCRAFT WINDSHIELD TREATMENT

and all plastic interiors and exteriors
Recommended for all plastic windshields

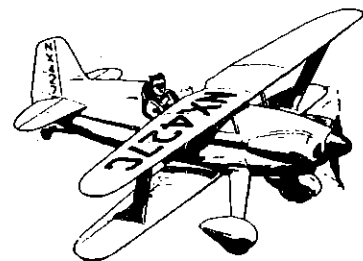


Easy to apply—restores optical clarity. Reduces drag and risk of icing. Preserves with a durable, hard, glass-smooth coating. Resists insect accumulations and damage to finish. Protects against stains, soils, oils, snow, sleet, salt and all dirt. Cleans, glazes, seals and protects.

Waterproof—eliminates loss of frontal vision in precipitation. Unaffected by temperature, weather or sunlight. Three to five times more durable than conventional windshield maintenance products. Reduces maintenance cost.

Half pints (8 fluid oz.) . . . \$4.00

CALIFORNIA RESIDENTS, ADD 6% FOR SALES TAX.



KNIGHT TWISTER AIRCRAFT

THE KNIGHT TWISTER SPORT BIPLANE

"STARDUSTER" presents with pride, the fabulous Knight Twister aircraft. First designed by the almost legendary Vernon Payne in 1929. These aircraft have been refined and improved over the years.

Construction is conventional, and requires only the use of conventional hand tooling, plus 1/4" drill and welding equipment.

Fuselage is welded steel tubing, with fabric covering. Wings are wood & fabric. Tail surfaces are all wood. All wings are tapered in plan form. The large stagger of the wings contributes to slower landing.

THE SUNDAY KNIGHT TWISTER was designed in 1967, for the Sunday flyer who wants relatively docile controls combined with sporting performance.

Statistics:

Wing Spans: 19 1/2', Upper wing; 17 1/2' Lower wing
 Wing Area: 83 S. F.
 Length : 15 1/2'
 Gross WT : 996#
 Power : 125-135 HP
 Cruising Speed: 135 MPH
 Stalling Speed: 52 MPH
 Rate/Climb :1200 FPM

Price for a set of plans \$95.00

THE KNIGHT TWISTER IMPERIAL was designed in 1968 for biplane racing. It is sensitive and fast, and has an excellent "Win" record in the races.

Statistics:

Wing Spans: 17 1/2' Upper Wing, 15 1/2' Lower Wing
 Wing Area : 75 S. F.
 Length : 14'
 Gross WT : 1100#, Racing WT:900#
 Cruising Speed: 155 MPH
 Stall Speed : 55 MPH
 Rate of Climb : 1250 FPM

Price for a set of plans \$95.00

STARDUSTER TOO KITS, PARTS, & COMPONENTS Plans ----\$ 85.00 - 15 -

| | |
|--|---------------------------------|
| WING KIT-INCLUDES EVERYTHING NEEDED TO BUILD THE WINGS, EXCEPT SHEET 15 SPARS ARE FINISHED, RIBS FINISHED, TRAILING EDGES FINISHED, & ALL FITTINGS SHEARED TO SIZE ----- | \$1700.00 |
| SPAR KIT-ALL SPARS FINISHED ----- | 360.00 |
| RIB KIT-ALL RIBS FINISHED ----- | 395.00 |
| SPAR PLATE KIT-FINISHED ----- | 50.00 |
| WING FITTINGS, SHEARED TO SIZE ----- | 99.00 |
| TRAILING EDGES, FORMED ALUMINUM ----- | 65.00 |
| FLYING WIRE SET, COMPLETE ----- | 595.00 |
| FUSELAGE KIT, SHEET 11 ----- | 414.00 |
| CABANE STRUT KIT, SHEET 12 ----- | 161.00 |
| I STRUT KIT, SHEET 12 ----- | 134.00 |
| LANDING GEAR KIT, NEW SHEET 14 ----- | 302.00 |
| CONTROLS KIT, SHEET 13 ----- | 172.00 |
| FUSELAGE FAIRING KIT, SHEET 9 ----- | 97.00 |
| BRAKES, TAIL WHEEL, & FUEL SYSTEM, SHEET 16 ----- | 495.00 |
| ELEVATOR, STABILIZER, & RUDDER, FORMED RIB, SHEET 10 ----- | 267.00 |
| COVERING KIT ----- | 475.00 |
| FIBERGLASS KIT (COCKPIT, TURTLEBACK, NOSE COWLING, WHEEL PANTS)---[| 240.00-Pick up 260.00-Packed |
| GAS TANK, MAIN INVERTED, WITH SENDER & FLOP TUBE ----- | 275.00 |
| GAS TANK, CENTER SECTION ----- | 185.00 |
| ENGINE MOUNT, LYCOMING ENGINES ----- | 205.00 |
| EXHAUST SYSTEM, CERTIFIED STAINLESS STEEL ----- 4 cylinder----- | 200.00 |
| TWO MUFFLER, ADD ----- 6 cylinder----- | 275.00 |
| CARB HEAT BOX, ADD ----- | 40.00 |
| PREFABRICATED COMPONENTS ----- | 40.00 |
| WINGS READY FOR COVER ----- | 4900.00 |
| BASIC FUSELAGE ASSY, SHEET 11 ----- | 995.00 |
| HORISONTEL TAIL, COMPLETE ----- | 497.00 |
| LANDING GEAR, COMPLETE ----- | 540.00 |
| CABANE STRUTS, BOLT ON TYPE ----- | 370.00 |
| CONTROLS ASSY, INCLUDING TWO STICKS ----- | 220.00 |
| "I" STRUTS FOR WINGS ----- | 454.00 |
| BELL CRANK ASSYS, TWO ----- | 138.00 |
| COMPRESSION STRUTS, TWO, CTR SECTION ----- | 38.00 |
| COMPLETE WELDED ASSY ----- | 4000.00 |
| CONSISTS OF FUSELAGE, LANDING GEAR, TAIL ASSEMBLIES CABANE STRUTS, CONTROLS, ALL STANDOFFS, FORMERS, BRACKETS, ASSEMBLED, INSPECTED, TESTED. | |

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ACRODUSTER TOO KITS, PARTS, & COMPONENTS Plans -----\$ 85.00

| | |
|--|------------------|
| WING KIT--INCLUDES EVERYTHING YOU NEED TO BUILD THE WINGS, EXCEPT COVERING. SPARS ARE FINISHED, RIBS ROUTED, TRAILING EDGES FINISHED, & ALL FITTINGS SHEARED TO SIZE ----- | 1600.00 |
| SPAR KIT--ALL SPARS FINISHED FOUR SIDES ----- | 275.00 |
| RIB KIT--ALL RIBS ROUTED, & CAP STRIPS GROOVED ----- | 325.00 |
| SPAR PLATE KIT--FINISHED ----- | 50.00 |
| WING FITTINGS, SHEARED TO SIZE ----- | 150.00 |
| TRAILING EDGES, FORMED ALUMINUM ----- | 65.00 |
| FLYING WIRE SET, COMPLETE ----- | 540.00 |
| FUSELAGE KIT, SHEET 2 ----- (With 3 curved tubing-\$15.00 extra) | 300.00 |
| CONTROLS KIT, SHEET 35 ----- | 58.00 |
| CONTROLS INSTL. KIT, SHEET 36 ----- | 93.00 |
| AILERON CONTROLS INSTL. SHEET 38 ----- | 121.00 |
| CABANE STRUT KIT, SHEET 5 ----- | 195.00 |
| LANDING GEAR KIT, SHEET 3 ----- | 244.00 |
| HORIZONTAL TAIL KIT, FORMED RIBS ----- | 206.00 |
| RUDDER KIT--WITH FORMED RIBS ----- | 37.00 |
| I STRUT INSTL, SHEET 37 ----- | 114.00 |
| COVERING KIT ----- | 375.00 |
| SEATS, BRAKES, & TANK INSTL, SHEET 39--INCLUDES TANK, FLOP TUBE & GAS GAGE ----- | 363.00 |
| FUSELAGE FAIRINGS, SHEET 40 (EXCLUDES TURTLEBACK) ----- | 395.00 |
| COMPLETE FIBERGLAS KIT ----- [Pick Up ----- Packed ----- | 187.00 200.00 |
| GAS TANKS, MAIN, INVERTED, WITH FLOP TUBE & GAS GAGE ----- | 275.00 |
| GAS TANK, CENTER SECTION ----- | 185.00 |
| ENGINE MOUNT, LYCOMING ENGINES ----- | 205.00 |
| EXHAUST SYSTEM, CERTIFIED STAINLESS STEEL ----- 4 cylinder ----- 6 cylinder ----- | 200.00 275.00 |
| TWO MUFFLERS, ADD ----- | 40.00 |
| CARB HEAT BOX, ADD ----- | 40.00 |
| PREFABRICATED COMPONENTS | |
| WINGS, READY FOR COVER ----- | 4900.00 |
| BASIC FUSELAGE ASSY, SHEET 2 ----- | 1050.00 |
| HORIZONTAL TAIL, COMPLETE ----- | 500.00 |
| I STRUTS, FOR WINGS ----- | 445.00 |
| LANDING GEAR, COMPLETE ----- | 540.00 |
| CABANE STRUTS ----- | 380.00 |
| CONTROLS ASSY, INCLUDING TWO STICKS ----- | 220.00 |
| BELL CRANK ASSYS, TWO ----- | 75.00 |
| COMPRESSION STRUTS, TWO CTR SECTION ----- | 38.00 |
| COMPLETE, WELDED ASSY ----- CONSISTS OF FUSELAGE, LANDING GEAR, TAIL ASSYS, CABANE STRUTS, CONTROLS, ALL STANDOFFS, FORMERS, & BRACKETS. ASSEMBLED, TESTED | 4000.00 |

11.5% packing charge (Min. .50 max. \$10.00)

V-STAR KITS, PARTS, & COMPONENTS

| | |
|--|----------------|
| Plans ----- | \$ 60.00 |
| WING KIT--INCLUDES EVERYTHING YOU NEED TO BUILD THE WINGS, EXCEPT COVERING. SPARS ARE FINISHED, RIBS ROUTED, TRAILING EDGES FINISHED, AND ALL FITTINGS SHEARED TO SIZE ----- | \$1600.00 |
| SPAR KIT --SPARS FINISHED ON FOUR SIDES ----- | 295.00 |
| RIB KIT--RIBS ROUTED, & CAP STRIPS GROOVED ----- | 325.00 |
| SPAR PLATE KIT - FINISHED ----- | 50.00 |
| WING FITTINGS, SHEARED TO SIZE ----- | 150.00 |
| TRAILING EDGES, FORMED ALUMINUM ----- | 65.00 |
| COVERING KIT ----- | 375.00 |
| FLYING WIRE SET, COMPLETE (INCLUDING TAIL WIRES) ----- | 550.00 |
| FUSELAGE KIT, SHEET 3, ----- | 204.00 |
| CABANE STRUT KIT, SHEET 33 ----- | 106.00 |
| I STRUT KIT, SHEET 32 ----- | 126.00 |
| LANDING GEAR KIT, SHEET 25, (FINISHED AXLES & NUTS)----- | 246.00 |
| CONTROLS INSTL. SHEET 11, ----- | 31.00 |
| FUSELAGE FAIRINGS, SHEET 34, ----- | 54.00 |
| VERTICAL TAIL KIT, SHEET 12 (WITH BENT UP RIBS) ----- | 47.00 |
| ELEVATOR & STABILIZER KIT, SHEET 31 (WITH BENT UP RIBS) ----- | 188.00 |
| ENGINE COWLING KIT, SHEET 13(OMIT EXPANDED METAL)----- | 132.00 |
| LANDING GEAR, CONTROLS, & EMPENNAGE ASSY, SHEET 10----- (TAIL WIRES OMITTED) | 860.00 |
| WING INSTALLATION, SHEET 35 (FLYING WIRES OMITTED)----- | 110.00 |
| WHEEL PANTS ----- [Pick up ----- Packed ----- | 75.00 80.00 |
| GAS TANK, MAIN, WITH SENDING UNIT ----- | 185.00 |
| GAS TANK, CENTER SECTION,----- | 175.00 |
| MOTOR MOUNT (SPECIFY LYC. OR CONT.)----- | 135.00 |
| PREFABRICATED COMPONENTS | |
| WINGS, READY FOR COVER----- | 4900.00 |
| BASIC FUSELAGE ASSY, AS PER SHEET 3----- | 900.00 |
| HORIZONTAL TAIL, AS PER SHEET 31----- | 500.00 |
| LANDING GEAR, SHEET 25----- | 540.00 |
| CABANE STRUTS, SHEET 33----- | 340.00 |
| CONTROL ASSY ----- | 150.00 |
| "I" STRUTS FOR WINGS ----- | 395.00 |
| COMPRESSION STRUTS FOR CENTER SECTION----- | 38.00 |
| COMPLETE WELDED ASSY----- CONSISTS OF FUSELAGE, LANDING GEAR, TAIL ASSEMBLIES, CABANE STRUTS, CONTROLS, ALL STANDOFFS, FORMERS & BRACKETS, ASSEMBLED, INSPECTED, TESTED, AND READY FOR COVER. | 3600.00 |

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

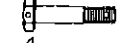


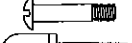


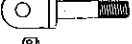











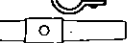


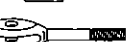


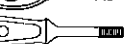


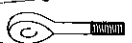


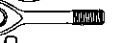








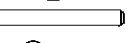


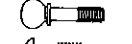











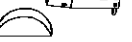











































STARLET - KITS, PARTS, & COMPONENTS

| | | |
|--|---------------|-----------|
| Plans----- | | \$ 60.00 |
| WING KIT- INCLUDES EVERYTHING YOU NEED TO BUILD THE WINGS, EXCEPT COVERING. SPARS FINISHED, RIBS ROUTED, TRAILING EDGES FINISHED, & ALL FITTINGS SHEARED TO SIZE - OMIT WING TANK----- | | \$1011.00 |
| SPAR KIT- SPARS FINISHED ON FOUR SIDES ----- | | 191.50 |
| RIB KIT- RIBS ROUTED, & CAP STRIPS GROOVED ----- | | 160.00 |
| SPAR PLATE KIT -FINISHED----- | | 42.00 |
| WING FITTINGS- SHEARED TO SIZE ----- | | 65.00 |
| TRAILING EDGES- FORMED ALUMINUM ----- | | 50.00 |
| STREAMLINE WIRES, FOR CABANE & TAIL ----- | | 172.00 |
| FUSELAGE KIT, SHEET 11----- | | 202.00 |
| CABANE STRUT & LIFT STRUT KIT (Items 6, 7, OMITTED) ----- | | 363.00 |
| VERTICAL TAIL KIT, WITH FORMED RIBS ----- | | 38.00 |
| HORIS. TAIL KIT, WITH FORMED RIBS----- | | 99.00 |
| CONTROL STICK & RUDDER PEDALS, SHEET 14----- | | 17.50 |
| LANDING GEAR, CONTROLS, EMPENNAGE ASSY, SHEET 6----- (INCLUDES FINISHED GAS TANK, BRAKE RESERVOIRS, NO TAIL WIRES) | | 709.00 |
| FUSELAGE FAIRINGS, SHEET 10----- | | 38.00 |
| ENGINE COWLING KIT----- | | 132.00 |
| WHEEL PANTS----- | Pick Up----- | 75.00 |
| | Packed----- | 80.00 |
| TURTLE DECK----- | Pick up ----- | 70.00 |
| | Packed----- | 75.00 |
| GAS TANK, MAIN, WITH SENDING UNIT----- | | 185.00 |
| GAS TANK, CENTER SECTION----- | | 175.00 |
| MOTOR MOUNT----- | | 135.00 |
| PREFABRICATED COMPONENTS | | |
| WINGS, READY FOR COVER----- | | 3000.00 |
| CABANE STRUTS ----- | | 325.00 |
| CONTROL ASSY ----- | | 150.00 |
| COMPRESSION STRUTS FOR CTR SECTION----- | | 35.00 |

PRICES IN THIS CATALOG, SUBJECT TO CHANGE WITHOUT NOTICE

STOLP STARDUSTER CORP.
4301 TWINING FLABOB AIRPORT
RIVERSIDE, CALIFORNIA 92509
(714) 686-7943

AN - GUIDE

| | | | | | |
|--|---|---|---|---|---|
| AN 3 thru AN 20 BOLT—HEX HD, AIRCRAFT |  | AN 360 NUT—PLAIN (Engine) |  | AN 509 SCREW—FL. HD. 100" (Structural) (ALLOY STEEL) |  |
| AN 21 thru AN 36 BOLT—CLEVIS |  | AN 362 NUT—PLATE, SELF-LOCK. (Hi-Temp.) |  | AN 510 SCREW—FLAT HD. 82" (NF) |  |
| AN 42 thru AN 49 BOLT—EYE |  | AN 363 NUT—HEX, SELF-LOCK. (Hi-Temp.) |  | AN 515 SCREW—RD. HD. (NC) |  |
| AN 73 thru AN 81 BOLT—DR HD (Engine) |  | AN 364 NUT—HEX, SELF-LOCK. (Thin) |  | AN 520 SCREW—RD. HD. (NF) |  |
| AN 100 THIMBLE—CABLE |  | AN 365 NUT—HEX, SELF-LOCK. |  | AN 525 SCREW—WASHER HD. (Alloy Stl) |  |
| AN 115 SHACKLE—CABLE |  | AN 366 NUT—PLATE, SELF-LOCK. |  | AN 526 SCREW—TRUSS HD. (NF & NC) |  |
| AN 116 SHACKLE—SCREW PIN |  | AN 373 NUT—PLATE, SELF-LOCK. (100" CTSK) |  | AN 530 SCREW—RD. HD., SHEET METAL (TYPE B) |  |
| AN 155 BARREL—TURNBUCKLE |  | AN 380 PIN—COTTER |  | AN 531 SCREW—FL. HD., 82" SHEET METAL (TYPE B) |  |
| AN 161 FORK—TURNBUCKLE |  | AN 381 PIN—COTTER, STAINLESS |  | AN 535 SCREW—RD. HD. DRIVE (Type "U") |  |
| AN 162 FORK—TURNBUCKLE (For Bearing) |  | AN 385 PIN—TAPERED, PLAIN |  | AN 545 SCREW—WOOD, RD. HD. |  |
| AN 165 EYE—TURNBUCKLE (For Pin) |  | AN 386 PIN—THREADED TAPER |  | AN 550 SCREW—WOOD, FLAT HD. |  |
| AN 170 EYE—TURNBUCKLE (For Cable) |  | AN 392 thru AN 406 PIN—CLEVIS |  | AN 565 SCREW—HOLESS., SET |  |
| AN 173 thru AN 186 BOLT, CLOSE TOL. |  | AN 415 PIN—LOCK |  | AN 663 TERMINAL—CABLE, DBLE. SHK. BALL (FOR SWAGING) |  |
| AN 210 thru AN 221 PULLEY—CONTROL |  | AN 416 PIN—RETAINING, SAFETY |  | AN 664 TERMINAL—CABLE, SGL. SHK. BALL (FOR SWAGING) |  |
| AN 253 PIN—HINGE |  | AN 426 RIVET—100" FL. HD., ALUM. |  | AN 665 TERMINAL—CABLE, THDED. CLEVIS |  |
| AN 254 SCREW—THUMB, NECKED |  | AN 427 RIVET—100" FL. HD., Steel, Monel, & Copper |  | AN 666 TERMINAL—CABLE, THDED. (FOR SWAGING) |  |
| AN 255 SCREW—NECKED |  | AN 430 RIVET—RD. HD., ALUM. |  | AN 667 TERMINAL—CABLE, FORK END (FOR SWAGING) |  |
| AN 256 NUT—SELF LOCK (Rt. Angle Plate) |  | AN 435 RIVET—RD. HD., Steel, Monel, & Copper |  | AN 668 TERMINAL—CABLE, EYE END (FOR SWAGING) |  |
| AN 257 HINGE—CONTINUOUS |  | AN 442 RIVET—FL. HD., ALUM. |  | AN 669 TERMINAL—CABLE, TURNBUCKLE (FOR SWAGING) |  |
| AN 278 JOINT—BALL & SOCKET |  | AN 450 RIVET—TUBULAR |  | AN 737 CLAMP—HOSE |  |
| AN 280 KEY—WOODRUFF |  | AN 470 RIVET—UNIVERSAL HD., ALUM. |  | AN 741 CLAMP—TUBE |  |
| AN 285 CUP—OIL |  | AN 481 CLEVIS—ROD END |  | AN 742 CLAMP—PLAIN, SUPPORT |  |
| AN 310 NUT—CASTLE (Air Frame) |  | AN 486 CLEVIS—ROD END ADJ. |  | AN 900 GASKET—COP.—ASBESTOS, ANGULAR |  |
| AN 315 NUT—PLAIN (Air Frame) |  | AN 490 ROD END—THREADED |  | AN 901 GASKET—METAL TUBE |  |
| AN 316 NUT—CHECK |  | AN 500 SCREW—FILL. HD. (NC) |  | AN 931 GROMMET—ELASTIC |  |
| AN 320 NUT—CASTLE, SHEAR |  | AN 501 SCREW—FILL. HD. (NF) |  | AN 935 WASHER—LOCK, SPRING |  |
| AN 335 NUT—PL. HEX (NC) (Semi-Fin) |  | AN 502 SCREW—DR. FILL. HD. (Alloy Stl.) (NF) |  | AN 936 WASHER—LOCK TOOTH (Ext. & Int.) |  |
| AN 340 NUT—HEX, MACH. SCREW (NC) |  | AN 503 SCREW—DR. FILL. HD. (Alloy Stl.) (NC) |  | AN 960 WASHER—FLAT, AIRCRAFT |  |
| AN 341 NUT—HEX, BRASS (Elec.) |  | AN 504 SCREW—RD. HD. SELF TAP. |  | AN 961 WASHER—FLAT, BRASS (Elec.) |  |
| AN 345 NUT—HEX, MACH. SCREW (NF) |  | AN 505 SCREW—FLAT HD., 82" (NC) |  | AN 970 WASHER—FLAT, LARGE AREA |  |
| AN 340 NUT—WING |  | AN 506 SCREW—FLAT HD., 82" SELF TAP. |  | AN 975 WASHER—TAPER PIN |  |
| AN 345 NUT—SLOTTED (Engine) |  | AN 507 SCREW—FLAT HD., 100" (NF & NC) |  | AN 998 RING—LOCK |  |
| AN 356 NUT—PAL |  | AN 508 SCREW—RD. HD. BRASS (Elec.) |  | | |

STOLP STARDUSTER CORPORATION

4301 TWINING, FLABOB AIRPORT
RIVERSIDE, CALIFORNIA 92509

Phone (714) 686-7943

GRIP LENGTH TABLE - AIRCRAFT BOLTS

| DASH NO. | AN3 | | AN4 | | AN5 | | AN6 | | AN7 | | AN8 | | AN9 | |
|----------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
| | GRIP ±1/64 | LENGTH ±1/32 | GRIP ±1/64 | LENGTH ±1/32 | GRIP ±1/64 | LENGTH ±1/32 | GRIP ±1/64 | LENGTH ±1/32 | GRIP ±1/64 | LENGTH ±1/32 | GRIP ±1/64 | LENGTH ±1/32 | GRIP ±1/64 | LENGTH ±1/32 |
| 3 | 1/16 | 15/32 | 1/16 | 15/32 | 1/16 | 17/32 | | | | | | | | |
| 4 | 1/8 | 17/32 | 1/16 | 17/32 | 1/16 | 17/32 | | | | | | | | |
| 5 | 1/8 | 21/32 | 3/16 | 21/32 | 3/16 | 23/32 | 1/16 | 45/64 | 1/16 | 23/32 | | | | |
| 6 | 3/8 | 25/32 | 5/16 | 25/32 | 5/16 | 27/32 | 3/16 | 53/64 | 3/16 | 27/32 | 1/16 | 27/32 | 1/16 | 31/32 |
| 7 | 1/2 | 29/32 | 7/16 | 29/32 | 7/16 | 31/32 | 5/16 | 61/64 | 5/16 | 31/32 | 1/16 | 27/32 | 1/8 | 1- 1/32 |
| 10 | 5/8 | 1- 1/32 | 9/16 | 1- 1/32 | 9/16 | 1- 3/32 | 7/16 | 1- 5/64 | 7/16 | 1- 3/32 | 5/16 | 1- 3/32 | 1/4 | 1- 5/32 |
| 11 | 3/4 | 1- 5/32 | 11/16 | 1- 5/32 | 11/16 | 1- 7/32 | 9/16 | 1- 13/64 | 9/16 | 1- 7/32 | 7/16 | 1- 7/32 | 1/2 | 1- 9/32 |
| 12 | 7/8 | 1- 9/32 | 13/16 | 1- 9/32 | 13/16 | 1- 11/32 | 11/16 | 1- 21/64 | 11/16 | 1- 11/32 | 9/16 | 1- 11/32 | 1/2 | 1- 13/32 |
| 13 | 1 | 1- 13/32 | 15/16 | 1- 13/32 | 15/16 | 1- 15/32 | 13/16 | 1- 29/64 | 13/16 | 1- 15/32 | 11/16 | 1- 15/32 | 5/8 | 1- 17/32 |
| 14 | 1-1/8 | 1- 17/32 | 1- 1/16 | 1- 17/32 | 1- 1/16 | 1- 19/32 | 15/16 | 1- 37/64 | 15/16 | 1- 19/32 | 13/16 | 1- 19/32 | 3/4 | 1- 21/32 |
| 15 | 1-1/4 | 1- 21/32 | 1- 3/16 | 1- 21/32 | 1- 3/16 | 1- 23/32 | 1- 1/16 | 1- 45/64 | 1- 1/16 | 1- 23/32 | 15/16 | 1- 23/32 | 7/8 | 1- 25/32 |
| 16 | 1-3/8 | 1- 25/32 | 1- 5/16 | 1- 25/32 | 1- 5/16 | 1- 27/32 | 1- 3/16 | 1- 53/64 | 1- 3/16 | 1- 27/32 | 1- 1/16 | 1- 27/32 | 1 | 1- 29/32 |
| 17 | 1-1/2 | 1- 29/32 | 1- 7/16 | 1- 29/32 | 1- 7/16 | 1- 31/32 | 1- 5/16 | 1- 61/64 | 1- 5/16 | 1- 31/32 | 1- 3/16 | 1- 31/32 | 1- 1/8 | 2- 1/32 |
| 20 | 1-5/8 | 2- 1/32 | 1- 9/16 | 2- 1/32 | 1- 9/16 | 2- 3/32 | 1- 7/16 | 2- 5/64 | 1- 7/16 | 2- 3/32 | 1- 5/16 | 2- 3/32 | 1- 1/4 | 2- 5/32 |
| 21 | 1-3/4 | 2- 5/32 | 1- 11/16 | 2- 5/32 | 1- 11/16 | 2- 7/32 | 1- 9/16 | 2- 13/64 | 1- 9/16 | 2- 7/32 | 1- 7/16 | 2- 7/32 | 1- 3/8 | 2- 9/32 |
| 22 | 1-7/8 | 2- 9/32 | 1- 13/16 | 2- 9/32 | 1- 13/16 | 2- 11/32 | 1- 11/16 | 2- 21/64 | 1- 11/16 | 2- 11/32 | 1- 9/16 | 2- 11/32 | 1- 1/2 | 2- 13/32 |
| 23 | 2 | 2- 13/32 | 1- 15/16 | 2- 13/32 | 1- 15/16 | 2- 15/32 | 1- 13/16 | 2- 29/64 | 1- 13/16 | 2- 15/32 | 1- 11/16 | 2- 15/32 | 1- 5/8 | 2- 17/32 |
| 24 | 2-1/8 | 2- 17/32 | 2- 1/16 | 2- 17/32 | 2- 1/16 | 2- 19/32 | 1- 15/16 | 2- 37/64 | 1- 15/16 | 2- 19/32 | 1- 13/16 | 2- 19/32 | 1- 3/4 | 2- 21/32 |
| 25 | 2-1/4 | 2- 21/32 | 2- 3/16 | 2- 21/32 | 2- 3/16 | 2- 23/32 | 2- 1/16 | 2- 45/64 | 2- 1/16 | 2- 23/32 | 1- 15/16 | 2- 23/32 | 1- 7/8 | 2- 25/32 |
| 26 | 2-3/8 | 2- 25/32 | 2- 5/16 | 2- 25/32 | 2- 5/16 | 2- 27/32 | 2- 3/16 | 2- 53/64 | 2- 3/16 | 2- 27/32 | 2- 1/16 | 2- 27/32 | 2 | 2- 29/32 |
| 27 | 2-1/2 | 2- 29/32 | 2- 7/16 | 2- 29/32 | 2- 7/16 | 2- 31/32 | 2- 5/16 | 2- 61/64 | 2- 5/16 | 2- 31/32 | 2- 3/16 | 2- 31/32 | 2- 1/8 | 3- 1/32 |
| 30 | 2-5/8 | 3- 1/32 | 2- 9/16 | 3- 1/32 | 2- 9/16 | 3- 3/32 | 2- 7/16 | 3- 5/64 | 2- 7/16 | 3- 3/32 | 2- 5/16 | 3- 3/32 | 2- 1/4 | 3- 5/32 |
| 31 | 2-3/4 | 3- 5/32 | 2- 11/16 | 3- 5/32 | 2- 11/16 | 3- 7/32 | 2- 9/16 | 3- 13/64 | 2- 9/16 | 3- 7/32 | 2- 7/16 | 3- 7/32 | 2- 3/8 | 3- 9/32 |
| 32 | 2-7/8 | 3- 9/32 | 2- 13/16 | 3- 9/32 | 2- 13/16 | 3- 11/32 | 2- 11/16 | 3- 21/64 | 2- 11/16 | 3- 11/32 | 2- 9/16 | 3- 11/32 | 2- 1/2 | 3- 13/32 |
| 33 | 3 | 3- 13/32 | 2- 15/16 | 3- 13/32 | 2- 15/16 | 3- 15/32 | 2- 13/16 | 3- 29/64 | 2- 13/16 | 3- 15/32 | 2- 11/16 | 3- 15/32 | 2- 5/8 | 3- 17/32 |
| 34 | 3-1/8 | 3- 17/32 | 3- 1/16 | 3- 17/32 | 3- 1/16 | 3- 19/32 | 2- 15/16 | 3- 37/64 | 2- 15/16 | 3- 19/32 | 2- 13/16 | 3- 19/32 | 2- 3/4 | 3- 21/32 |
| 35 | 3-1/4 | 3- 21/32 | 3- 3/16 | 3- 21/32 | 3- 3/16 | 3- 23/32 | 3- 1/16 | 3- 45/64 | 3- 1/16 | 3- 23/32 | 2- 15/16 | 3- 23/32 | 2- 7/8 | 3- 25/32 |
| 36 | 3-3/8 | 3- 25/32 | 3- 5/16 | 3- 25/32 | 3- 5/16 | 3- 27/32 | 3- 3/16 | 3- 53/64 | 3- 3/16 | 3- 27/32 | 3- 1/16 | 3- 27/32 | 3 | 3- 29/32 |
| 37 | 3-1/2 | 3- 29/32 | 3- 7/16 | 3- 29/32 | 3- 7/16 | 3- 31/32 | 3- 5/16 | 3- 61/64 | 3- 5/16 | 3- 31/32 | 3- 3/16 | 3- 31/32 | 3- 1/8 | 4- 1/32 |
| 40 | 3-5/8 | 4- 1/32 | 3- 9/16 | 4- 1/32 | 3- 9/16 | 4- 3/32 | 3- 7/16 | 4- 5/64 | 3- 7/16 | 4- 3/32 | 3- 5/16 | 4- 3/32 | 3- 1/4 | 4- 5/32 |
| 41 | 3-3/4 | 4- 5/32 | 3- 11/16 | 4- 5/32 | 3- 11/16 | 4- 7/32 | 3- 9/16 | 4- 13/64 | 3- 9/16 | 4- 7/32 | 3- 7/16 | 4- 7/32 | 3- 3/8 | 4- 9/32 |
| 42 | 3-7/8 | 4- 9/32 | 3- 13/16 | 4- 9/32 | 3- 13/16 | 4- 11/32 | 3- 11/16 | 4- 21/64 | 3- 11/16 | 4- 11/32 | 3- 11/16 | 4- 11/32 | 3- 1/2 | 4- 13/32 |
| 43 | 4 | 4- 13/32 | 3- 15/16 | 4- 13/32 | 3- 15/16 | 4- 15/32 | 3- 13/16 | 4- 29/64 | 3- 13/16 | 4- 15/32 | 3- 11/16 | 4- 15/32 | 3- 5/8 | 4- 17/32 |
| 44 | 4-1/8 | 4- 17/32 | 4- 1/16 | 4- 17/32 | 4- 1/16 | 4- 19/32 | 3- 15/16 | 4- 37/64 | 3- 15/16 | 4- 19/32 | 3- 13/16 | 4- 19/32 | 3- 3/4 | 4- 21/32 |
| 45 | 4-1/4 | 4- 21/32 | 4- 3/16 | 4- 21/32 | 4- 3/16 | 4- 23/32 | 4- 1/16 | 4- 45/64 | 4- 1/16 | 4- 23/32 | 3- 15/16 | 4- 23/32 | 3- 7/8 | 4- 25/32 |
| 46 | 4-3/8 | 4- 25/32 | 4- 5/16 | 4- 25/32 | 4- 5/16 | 4- 27/32 | 4- 3/16 | 4- 53/64 | 4- 3/16 | 4- 27/32 | 4- 1/16 | 4- 27/32 | 4 | 4- 29/32 |
| 47 | 4-1/2 | 4- 29/32 | 4- 7/16 | 4- 29/32 | 4- 7/16 | 4- 31/32 | 4- 5/16 | 4- 61/64 | 4- 5/16 | 4- 31/32 | 4- 3/16 | 4- 31/32 | 4- 1/8 | 5- 1/32 |
| 50 | 4-5/8 | 5- 1/32 | 4- 9/16 | 5- 1/32 | 4- 9/16 | 5- 3/32 | 4- 7/16 | 5- 5/64 | 4- 7/16 | 5- 3/32 | 4- 5/16 | 5- 3/32 | 4- 1/4 | 5- 5/32 |
| 51 | 4-3/4 | 5- 5/32 | 4- 11/16 | 5- 5/32 | 4- 11/16 | 5- 7/32 | 4- 9/16 | 5- 13/64 | 4- 9/16 | 5- 7/32 | 4- 7/16 | 5- 7/32 | 4- 3/8 | 5- 9/32 |
| 52 | 4-7/8 | 5- 9/32 | 4- 13/16 | 5- 9/32 | 4- 13/16 | 5- 11/32 | 4- 11/16 | 5- 21/64 | 4- 11/16 | 5- 11/32 | 4- 9/16 | 5- 11/32 | 4- 1/2 | 5- 13/32 |
| 53 | 5 | 5- 13/32 | 4- 15/16 | 5- 13/32 | 4- 15/16 | 5- 15/32 | 4- 13/16 | 5- 29/64 | 4- 13/16 | 5- 15/32 | 4- 11/16 | 5- 15/32 | 4- 5/8 | 5- 17/32 |
| 54 | 5-1/8 | 5- 17/32 | 5- 1/16 | 5- 17/32 | 5- 1/16 | 5- 19/32 | 4- 15/16 | 5- 37/64 | 4- 15/16 | 5- 19/32 | 4- 13/16 | 5- 19/32 | 4- 3/4 | 5- 21/32 |
| 55 | 5-1/4 | 5- 21/32 | 5- 3/16 | 5- 21/32 | 5- 3/16 | 5- 23/32 | 5- 1/16 | 5- 45/64 | 5- 1/16 | 5- 23/32 | 4- 15/16 | 5- 23/32 | 4- 7/8 | 5- 25/32 |
| 56 | 5-3/8 | 5- 25/32 | 5- 5/16 | 5- 25/32 | 5- 5/16 | 5- 27/32 | 5- 3/16 | 5- 53/64 | 5- 3/16 | 5- 27/32 | 5- 1/16 | 5- 27/32 | 5- 1/4 | 5- 29/32 |
| 57 | 5-1/2 | 5- 29/32 | 5- 7/16 | 5- 29/32 | 5- 7/16 | 5- 31/32 | 5- 5/16 | 5- 61/64 | 5- 5/16 | 5- 31/32 | 5- 3/16 | 5- 31/32 | 5- 1/8 | 6- 1/32 |
| 60 | 5-5/8 | 6- 1/32 | 5- 9/16 | 6- 1/32 | 5- 9/16 | 6- 3/32 | 5- 7/16 | 6- 5/64 | 5- 7/16 | 6- 3/32 | 5- 5/16 | 6- 3/32 | 5- 1/4 | 6- 5/32 |
| 61 | 5-3/4 | 6- 5/32 | 5- 11/16 | 6- 5/32 | 5- 11/16 | 6- 7/32 | 5- 9/16 | 6- 13/64 | 5- 9/16 | 6- 7/32 | 5- 7/16 | 6- 7/32 | 5- 3/8 | 6- 9/32 |
| 62 | 5-7/8 | 6- 9/32 | 5- 13/16 | 6- 9/32 | 5- 13/16 | 6- 11/32 | 5- 11/16 | 6- 21/64 | 5- 11/16 | 6- 11/32 | 5- 9/16 | 6- 11/32 | 5- 1/2 | 6- 13/32 |
| 63 | 6 | 6- 13/32 | 5- 15/16 | 6- 13/32 | 5- 15/16 | 6- 15/32 | 5- 13/16 | 6- 29/64 | 5- 13/16 | 6- 15/32 | 5- 11/16 | 6- 15/32 | 5- 5/8 | 6- 17/32 |
| 64 | 6-1/8 | 6- 17/32 | 6- 1/16 | 6- 17/32 | 6- 1/16 | 6- 19/32 | 5- 15/16 | 6- 37/64 | 5- 15/16 | 6- 19/32 | 5- 13/16 | 6- 19/32 | 5- 3/4 | 6- 21/32 |
| 65 | 6-1/4 | 6- 21/32 | 6- 3/16 | 6- 21/32 | 6- 3/16 | 6- 23/32 | 6- 1/16 | 6- 45/64 | 6- 1/16 | 6- 23/32 | 5- 15/16 | 6- 23/32 | 5- 7/8 | 6- 25/32 |
| 66 | 6-3/8 | 6- 25/32 | 6- 5/16 | 6- 25/32 | 6- 5/16 | 6- 27/32 | 6- 3/16 | 6- 53/64 | 6- 3/16 | 6- 27/32 | 5- 1/16 | 6- 27/32 | 6 | 6- 29/32 |
| 67 | 6-1/2 | 6- 29/32 | 6- 7/16 | 6- 29/32 | 6- 7/16 | 6- 31/32 | 6- 5/16 | 6- 61/64 | 6- 5/16 | 6- 31/32 | 6- 3/16 | 6- 31/32 | 5- 1/8 | 7- 1/32 |
| 70 | 6-5/8 | 7- 1/32 | 6- 9/16 | 7- 1/32 | 6- 9/16 | 7- 3/32 | 6- 7/16 | 7- 5/64 | 6- 7/16 | 7- 3/32 | 6- 5/16 | 7- 3/32 | 6- 1/4 | 7- 5/32 |
| 71 | 6-3/4 | 7- 5/32 | 6- 11/16 | 7- 5/32 | 6- 11/16 | 7- 7/32 | 6- 9/16 | 7- 13/64 | 6- 9/16 | 7- 7/32 | 6- 7/16 | 7- 7/32 | 6- 3/8 | 7- 9/32 |
| 72 | 6-7/8 | 7- 9/32 | 6- 13/16 | 7- 9/32 | 6- 13/16 | 7- 11/32 | 6- 11/16 | 7- 21/64 | 6- 11/16 | 7- 11/32 | 6- 9/16 | 7- 11/32 | 6- 1/2 | 7- 13/32 |
| 73 | 7 | 7- 13/32 | 6- 15/16 | 7- 13/32 | 6- 15/16 | 7- 15/32 | 6- 13/16 | 7- 29/64 | 6- 13/16 | 7- 15/32 | 6- 11/16 | 7- 15/32 | 6- 5/8 | 7- 17/32 |
| 74 | 7-1/8 | 7- 17/32 | 7- 1/16 | 7- 17/32 | 7- 1/16 | 7- 19/32 | 6- 15/16 | 7- 37/64 | 6- 15/16 | 7- 19/32 | 6- 13/16 | 7- 19/32 | 6- 3/4 | 7- 21/32 |
| 75 | 7-1/4 | 7- 21/32 | 7- 3/16 | 7- 21/32 | 7- 3/16 | 7- 23/32 | 7- 1/16 | 7- 45/64 | 7- 1/16 | 7- 23/32 | 6- 15/16 | 7- 23/32 | 6- 7/8 | 7- 25/32 |
| 76 | 7-3/8 | 7- 25/32 | 7- 5/16 | 7- 25/32 | 7- 5/16 | 7- 27/32 | 7- 3/16 | 7- 53/64 | 7- 3/16 | 7- 27/32 | 7- 1/16 | 7- 27/32 | 7 | 7- 29/32 |
| 77 | 7-1/2 | 7- 29/32 | 7- 7/16 | 7- 29/32 | 7- 7/16 | 7- 31/32 | 7- 5/16 | 7- 61/64 | 7- 5/16 | 7- 31/32 | 7- 3/16 | 7- 31/32 | 7- 1/8 | 8- 1/32 |
| 80 | 7-5/8 | 8- 1/32 | 7- 9/16 | 8- 1/32 | 7- 9/16 | 8- 3/32 | 7- 7/16 | 8- 5/64 | 7- 7/16 | 8- 3/32 | 7- 5/16 | 8- 3/32 | 7- 1/4 | 8- 5/32 |
| 81 | | | | | | | | | | | | | | |
| 82 | | | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | | | |
| 84 | | | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | | | |
| 87 | | | | | | | | | | | | | | |

PROCUREMENT SPECIFICATION MIL-B-6812 AIR FORCE-NAVY AERONAUTICAL STANDARD BOLT - MACHINE, AIRCRAFT AN3 THRU AN20

ILLUSTRATIONS OF POPULAR HEAD STYLES AND STANDARD HEAD MARKINGS

| Head Style | AN430A | AN442A | AN426A | AN455A | AN425A | AN456A | AN470A |
|-------------------------------------|------------|-----------|-------------|---------|------------|---------|-----------|
| A 2S (1100) NO MARK | ROUND HEAD | FLAT HEAD | 100° C'SUNK | BRAZIER | 78° C'SUNK | BRAZIER | UNIVERSAL |
| AD A17ST (2117-T) DIMPLE | ROUND HEAD | FLAT HEAD | 100° C'SUNK | BRAZIER | 78° C'SUNK | BRAZIER | UNIVERSAL |
| D 17ST (2017-T) RAISED DOT | ROUND HEAD | FLAT HEAD | 100° C'SUNK | BRAZIER | 78° C'SUNK | BRAZIER | UNIVERSAL |
| DD 24ST (2024-T) RAISED DOUBLE-DASH | ROUND HEAD | FLAT HEAD | 10 | | | | |

RIVET STRENGTH TABLES

TABLE 1. ULT. SHEAR STRENGTH PER SHEAR PLANE, LBS, PROTRUDING HEAD ALUMINUM RIVETS.

| SHEET GAGE | AD3 | AD4 | AD5 | DD6 | DD8 | DD10 |
|------------|-----|-----|-----|------|------|------|
| .025 | 211 | 353 | | 1030 | | |
| .032 | 217 | 374 | 547 | 1090 | | |
| .040 | 217 | 386 | 575 | 1147 | 1936 | |
| .050 | 217 | 388 | 594 | 1180 | 2044 | 3068 |
| .061 | 217 | 388 | 596 | 1180 | 2078 | 3239 |
| .071 | | 388 | 596 | 1180 | 2112 | 3273 |
| .080 | | 388 | 596 | 1180 | 2120 | 3306 |
| .090 | | | 596 | 1180 | 2120 | 3347 |
| .100 | | | 596 | 1180 | | |

TABLE 2. NOMINAL PROTRUDING HEAD RIVET BEARING STRENGTH, LBS, BASED ON F_{br} EQUALS 100,000 PSI

| SHEET GAGE | AD3 | AD4 | AD5 | DD6 | DD8 | DD10 |
|------------|-----|------|------|------|------|------|
| .025 | 240 | 321 | | 611 | | |
| .032 | 307 | 411 | 509 | 764 | | |
| .040 | 384 | 514 | 636 | 955 | 1285 | |
| .050 | 480 | 642 | 795 | 1203 | 1619 | 2035 |
| .063 | 605 | 810 | 1002 | 1356 | 1824 | 2295 |
| .071 | 682 | 912 | 1129 | 1528 | 2055 | 2585 |
| .080 | 768 | 1028 | 1272 | 1719 | 2315 | 2905 |
| .090 | 864 | 1156 | 1431 | 1910 | 2570 | 3230 |
| .100 | 960 | 1285 | 1590 | | | |

TABLE 3. ULT. STRENGTH - 100° FLUSH DIMPLED RIVETS, LBS, RIVET AT E. D. = 2 D IN 2024T3 or T4 MATERIAL.

| SHEET GAGE | AD3 | AD4 | AD5 | DD6 | DD8 |
|------------|-----|-----|-----|------|------|
| .016 | 177 | | | | |
| .020 | 209 | 299 | | | |
| .025 | 235 | 360 | 474 | | |
| .032 | 257 | 413 | 568 | 744 | |
| .040 | 273 | 451 | 635 | 941 | 879 |
| .050 | 273 | 484 | 693 | 1110 | 1359 |
| .063 | | 484 | 736 | 1236 | 1727 |
| .071 | | | 755 | 1291 | 1883 |
| .080 | | | 755 | 1340 | 2025 |
| .090 | | | | 1382 | 2150 |
| .100 | | | | 1382 | 2255 |

TABLE 4. ULT. STRENGTH - 100° FLUSH CSK RIVETS, ALL 2024, 7075 AL., E. D. = 2 D.

| SHEET GAGE | AD3 | AD4 | AD5 | DD6 | DD8 |
|------------|-----|-----|-----|------|------|
| .016 | | | | | |
| .020 | 132 | | | | |
| .025 | 156 | | | | |
| .032 | 178 | 272 | | | |
| .040 | 193 | 309 | 418 | | |
| .050 | 206 | 340 | 479 | 758 | |
| .063 | 216 | 363 | 523 | 886 | 1290 |
| .071 | 216 | 373 | 542 | 942 | 1424 |
| .080 | | 373 | 560 | 992 | 1473 |
| .090 | | | 575 | 1035 | 1647 |
| .100 | | | 575 | 1073 | 1738 |

STRENGTH TABLES FOR PROTRUDING HEAD AN BOLTS, SCREWS (WITH NO THREADS IN BEARING), LOCKBOLTS, AND HI-SHEAR RIVETS.

TABLE 1. NOMINAL PROTRUDING HEAD BEARING STRENGTH, BASED ON F_{br} EQUALS 100,000 psi.

| SHEET GAGE | #10 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
|------------|------|------|------|------|-------|-------|
| .032 | 608 | 800 | 1000 | 1197 | 1400 | 1600 |
| .040 | 760 | 1000 | 1250 | 1497 | 1750 | 2000 |
| .050 | 950 | 1250 | 1563 | 1872 | 2188 | 2500 |
| .063 | 1197 | 1575 | 1969 | 2360 | 2758 | 3150 |
| .071 | 1349 | 1775 | 2220 | 2660 | 3108 | 3550 |
| .080 | 1520 | 2000 | 2500 | 3000 | 3500 | 4000 |
| .090 | 1710 | 2250 | 2810 | 3375 | 3940 | 4500 |
| .100 | 1900 | 2500 | 3125 | 3750 | 4375 | 5000 |
| .125 | 2375 | 3125 | 3905 | 4690 | 5470 | 6250 |
| .160 | 3040 | 4000 | 5000 | 6000 | 7000 | 8000 |
| .190 | 3610 | 4750 | 5940 | 7125 | 8310 | 9500 |
| .250 | 4750 | 6250 | 7810 | 9375 | 10940 | 12500 |

TABLE 2. BEARING FACTORS, TO BE USED IN CONJUNCTION WITH TABLE 1.

| MATERIAL | GAGES | E. D. EQUALS 1.50 | | E. D. EQUALS 2.0 | |
|------------|------------|-------------------|------|------------------|------|
| | | Cbru | Cbry | Cbru | Cbry |
| Clad | .010--.062 | .93 | .67 | 1.18 | .78 |
| | 2024-T3 | .063--.249 | .98 | .69 | 1.24 |
| Clad | .016--.039 | 1.10 | .90 | 1.39 | 1.02 |
| | 7075-T6 | .040--.249 | 1.11 | .91 | 1.41 |
| EXTRUSIONS | | | | | |
| 2014-T6 | To .499 | .92 | .80 | 1.16 | .91 |
| 2024-T4 | To .249 | .91 | .66 | 1.14 | .75 |
| 7075-T6 | To .249 | 1.08 | .99 | 1.33 | 1.06 |

TO FIND BEARING ALLOWABLE: TAKE NOMINAL VALUE FROM TABLE 1. MULTIPLY BY APPROPRIATE C_{br} FACTOR FROM TABLE 2.

TABLE 3. ULTIMATE ALLOWABLES FOR AN BOLT

| | #10 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 |
|----------------|------|------|------|--------|--------|--------|--------|--------|
| SHEAR-SHANK | 2126 | 3680 | 5150 | 8280 | 11,250 | 14,700 | 18,700 | 23,000 |
| TENSION-THREAD | 2210 | 4080 | 6500 | 10,100 | 13,600 | 18,500 | 23,600 | 30,100 |
| MOMENT-SHANK | 138 | 315 | 616 | 1065 | 1689 | 2525 | 3592 | 4928 |

DECIMAL EQUIVALENTS TAP DRILL SIZES METRIC EQUIVALENTS

1. Tap drill sizes based on 75% maximum thread.
2. To convert inches to m/m, multiply inches by 25.4.
3. To convert m/m to inches, divide by 25.4.

| Fract. Size Drills Inches | Wire Gauge Drills | Deci. Equiv. Inches | TAP SIZES | | Fract. Size Drills Inches | Wire Gauge and Letter Size Drills | Decimal Equivalent Inches | TAP SIZES | | Fract. Size Drills Inches | Letter Size Drills | Decimal Equivalent Inches | TAP SIZES | | m/m | Inches | m/m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|---------------------|----------------|------------------|---------------------------|-----------------------------------|---------------------------|----------------|------------------|---------------------------|--------------------|---------------------------|----------------|------------------|------|--------|-------|--------|----|----|-------|--------|-------|--------|-------|-------|--------|--------|-------|-------|----|----|-------|-------|-----|--------|----|--------|-----|----|----|--------|-----|--------|-------|---|--|----|-----|--------|----|-------|---|----|----|--------|----|----|--------|-------|--------|-------|-------|-------|---|-----|-------|-------|--------|-------|--------|----|-------|--------|----|----|-------|----|--------|--------|----|----|-------|--------|----|----|--------|--------|-------|--------|--------|-----|-------|----|-------|--------|-------|--------|----|--------|-------|--------|--------|-----|--|--|--|-------|----|--------|------|--------|--------|--------|--------|------|--------|----|
| | | | Size of Thread | Threads Per Inch | | | | Size of Thread | Threads Per Inch | | | | Size of Thread | Threads Per Inch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/64 | 80 | .0135 | | | 9/64 | | .1406 | 10 | 24 | 3/8 | | .3750 | 1/16 | 20 | 1 | 0.0394 | 51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 79 | .0145 | | | | 27 | .1440 | | | | V | .3770 | | | 2 | 0.0787 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | .0156 | | | | 26 | .1470 | | | | W | .3860 | | | 3 | 0.1181 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 78 | .0160 | | | | 25 | .1495 | | | | X | .3906 | | | 3/16 | 20 | 4 | 0.1575 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 77 | .0180 | | | | 24 | .1520 | | | | | | | | | | 5 | 0.1969 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 76 | .0200 | | | | 23 | .1540 | | | | | | | | | | 6 | 0.2362 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 75 | .0210 | | | | 5/32 | .1562 | | | | | | | | | | Y | .3970 | 10 | 32 | 7 | 0.2756 | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 74 | .0225 | | | | | | | | | | | | | | | | | | | 22 | .1570 | 8 | 0.3150 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 73 | .0240 | | | | | | | | | | | | | | | | | | | 21 | .1590 | 9 | 0.3543 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 72 | .0250 | | | | | | | | | | | | | | | | | | | 20 | .1610 | Z | .4062 | 1/2 | 13 | 10 | 0.3937 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | .0260 | 19 | .1660 | 11 | 0.4331 | | | 61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | .0280 | 18 | .1695 | 7/16 | .4219 | | | 1/2 | 20 | 12 | | | 0.4724 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69 | .0292 | 11/64 | .1719 | | | | | | | 17 | | | .4375 | 1/2 | | | | | | | 20 | 13 | | | | | 0.5118 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | .0310 | | | | | | | | | | 16 | .1770 | | | 14 | 0.5512 | | | | | | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/32 | | | | | | | | | | | .0312 | | | | | 15 | | | | | | .1800 | | | | | | | 3/16 | .1875 | 12 | 28 | 3/16 | 12 | 15 | 0.5906 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 67 | | | | | | | | | | .0320 | | | | | | | | | | | | | | | | | | | | | | | | 14 | .1820 | 16 | 0.6299 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 66 | | | | | .0330 | 13 | | | | .1850 | | | | | | 17 | 0.6693 | 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 65 | | | | | .0350 | 3/16 | | | | .1875 | | | | | | 12 | .1890 | | | | | | | | | | | | | | | | | 1/2 | .1910 | 11 | 20 | 1/2 | 11 | 18 | 0.7087 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 64 | | | | | .0360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | .1910 | 19 | 0.7480 | 69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 63 | | | | | .0370 | | | | | | | | | | | | | | | | | 10 | .1935 | 13/64 | .2031 | | | | | | | | | | | | | | | | | 3/8 | .2010 | 7 | | | 18 | 20 | 0.7874 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 62 | | | | | .0380 | | | | | | | | | | | | | | | | | 9 | .1960 | | | | | | | | | | | | | | | | | | | | | | | | | 21 | 0.8268 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 61 | | | .0390 | 8 | .1990 | | 1/2 | .2040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1/2 | .2055 | | | | 18 | 22 | 0.8661 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | .0400 | 7 | .2010 | 23 | 0.9055 | | | | 73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 59 | .0410 | 3/64 | .0469 | 0 | 80 | | | | | | | | 1/2 | | | | | | | .2090 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | 18 | 24 | 0.9449 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | .0420 | 7/32 | | | | | | | | | | .2187 | | | 1 | 64 | | | | | | | | | | | | 1/2 | .2130 | 3 | | | | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | 25 | 0.9843 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | .0430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15/64 | .2344 | 2 | 56 | | | 1/2 | .2340 | A | | | | 16 | 26 | 1.0236 | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | .0465 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1/4 | .2500 | 3 | 48 | | | 1/2 | .2380 | B | | | | 16 | 27 | 1.0630 | 77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3/64 | 55 | | | | | | .0520 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .2420 | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 28 | 1.1024 | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 54 | | | | | | .0550 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 17/64 | .2656 | 3 | 56 | | | .2460 | D | | | | 16 | 29 | 1.1417 | 79 | | | | | | | | | | | | | | | | | |
| | 53 | | | | | | .0595 | | | | | | | | | | | | | | | | | | 1/4 | .2500 | | | | | | | | | | | | | | | 4 | 40 | | | .2570 | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 30 | 1.1811 | 80 | | | | | | | | | | | | | | | |
| | 1/16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .0625 | | | | | | | .2610 | F | | | | 16 | 31 | 1.2205 | 81 | | |
| | | | | | | | 52 | .0635 | 3/32 | | | | | | | | | | | | | | .2812 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 48 | | | .2660 | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 32 | 1.2598 | 82 |
| | | | | | | | 51 | .0670 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9/32 | .2812 | 4 |
| | | | 50 | .0700 | 19/64 | .2969 | 5 | 40 | | | | | | .2770 | | | | | | | I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 49 | .0730 | 5/16 | | | | | | | | .3125 | | | 6 | 32 | | | | | | | | | | | | .2810 | J | | | | 16 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | 1.3780 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 48 | .0760 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 21/64 | | | | | | | | | | | | | | | | | | | | | | | | | .3281 | 6 | 40 | | | .2810 | K | | | | 16 | 36 | 1.4173 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 5/64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .0781 | | | | | | | .2900 | L | | | | 16 | 37 | 1.4567 | 87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | | | .0785 | | | | | | | | 3/32 | | | | | | .2812 | 4 | 48 | | | | | | | | | | | | | | | | | .2950 | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | 38 | 1.4961 | 88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | | | .0810 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 19/64 | .2969 | 5 | 40 | | | .3020 | N | | | | 16 | 39 | 1.5354 | 89 | | | | | | | | | | | | | | | | | | | | | |
| 45 | | | .0820 | | | | | | | | | | | | | | | | | | | | | | 5/16 | .3125 | | | | | | | | | | | | | | | 6 | 32 | | | .3160 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 40 | 1.5748 | 90 | | | | | | | | | | | | | | | | | | | |
| 44 | .0860 | | 21/64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .3281 | 6 | 40 | | | | .3230 | P | | | | 16 | 41 | 1.6142 | 91 | | | | | | | |
| 43 | .0890 | | | | | | | | 11/32 | | | | | | | | | | | | | | .3437 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | 36 | | | .3320 | Q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 42 | 1.6535 | 92 | | | | | |
| 42 | .0935 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7/64 | .1094 | | | | | .3390 | R |
| 3/32 | | | | | .0937 | | | | | | | | | .3437 | | | | | | | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 41 | | | .0960 | 11/32 | | | | | | | .3437 | | | 8 | 36 | | | | | | | | | | | | .3480 | T | | | 16 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 40 | | | .0980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 23/64 | .3680 | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 36 | | | .3580 | U | | | 16 | 46 | 1.8110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 39 | .0995 | | 1/8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .1250 | | | | | | .3594 | | | | 16 | 47 | 1.8504 | 97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 38 | .1015 | | | | | | | | | 1/8 | | | | | | .1250 | | | | | | | | | | | | | | | | | | | .3680 | | | | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 48 | | | | | | | | | 1.8898 | 98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 37 | .1040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1/8 | | | | | | | | | .1250 | | | | | .3680 | | | | 16 | 49 | 1.9291 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36 | .1065 | | | | | | | | | | | | | | | | | | | | | | | 1/8 | .1250 | | | | | | | | | | | | | | | | | | | .3680 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 50 | 1.9685 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 35 | .1100 | 1/8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .1250 | | | | | .3680 | | | | 16 | 50 | | 1.9685 | 100 | | | | | | | | | | | | | | | |
| | 34 | .1110 | | | | | | | 1/8 | | | | | | | | | | | | | | .1250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .3680 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 50 | 1.9685 | 100 | | | | | | | | | | | | | | |
| | 33 | .1130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1/8 | .1250 | | | | | .3680 | | | | 16 | 50 | 1.9685 | 100 | | | |
| 32 | .1160 | 1/8 | | | | .1250 | | | | | | | | .3680 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.9685 | 100 | | | | |
| 31 | .1200 | | | | 1/8 | | | | | | | .1250 | | | | | | | | | | | | | | | | .3680 | | | | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.9685 | 100 | | | | |
| 30 | .1285 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1/8 | .1250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | .3680 | | | | 16 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.9685 | 100 | | | | |
| 29 | .1360 | | | 1/8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .1250 | | | | | | .3680 | | | | 16 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.9685 | 100 | | | | |
| 28 | .1405 | | | | | | | | | | 1/8 | | | | | | .1250 | | | | | | | | | | | | | | | | | | | .3680 | | | | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.9685 | 100 | | | | |

STOLP STARDUSTER CORPORATION

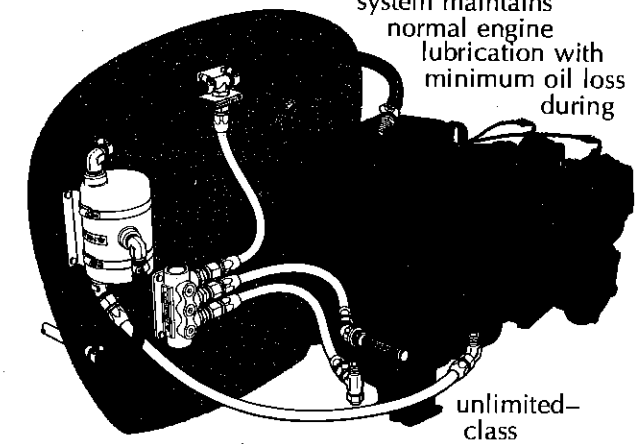
4301 TWINING, FLABOB AIRPORT
RIVERSIDE, CALIF. 92509

Phone (714) 686-7943

NO PACKING CHARGE ON CHRISTEN PRODUCTS

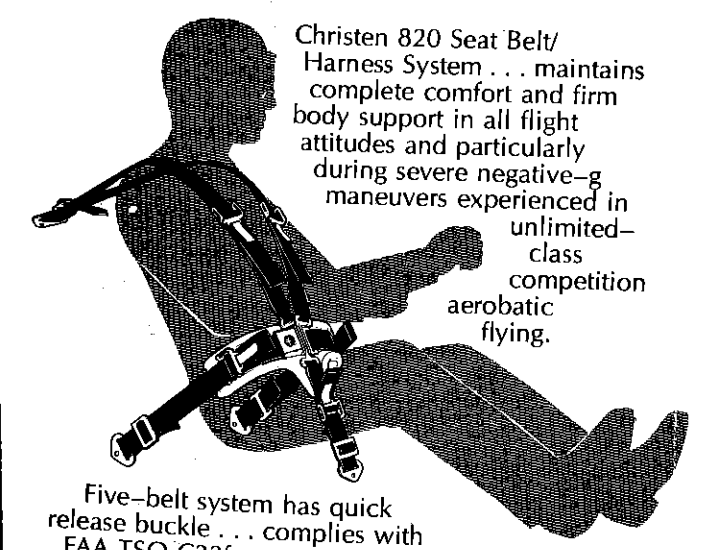
In line with our policy of offering top quality products to our customers, we are proud to present a complete line of Christen Industries Products. These products, we believe, are the best of their kind which are available today. They are widely used by the worlds best aerobatic pilots.

Christen 801 Series Inverted Oil System ... available for all direct-drive Lycoming aircraft engines. This proven, light-weight, low-cost system maintains normal engine lubrication with minimum oil loss during



unlimited-class competition aerobatic flying. Used in the production Pitts Special aircraft and by the world champion United States Aerobatic Team. System kits immediately available from stock ... can be installed in a matter of hours without engine disassembly.

- 801-4 BASIC SYSTEM-4CYL. LYCOMING- \$194.76
- 811 - A SUMP KIT \$56.56
- HOSE & FITTINGS KIT- \$148.50

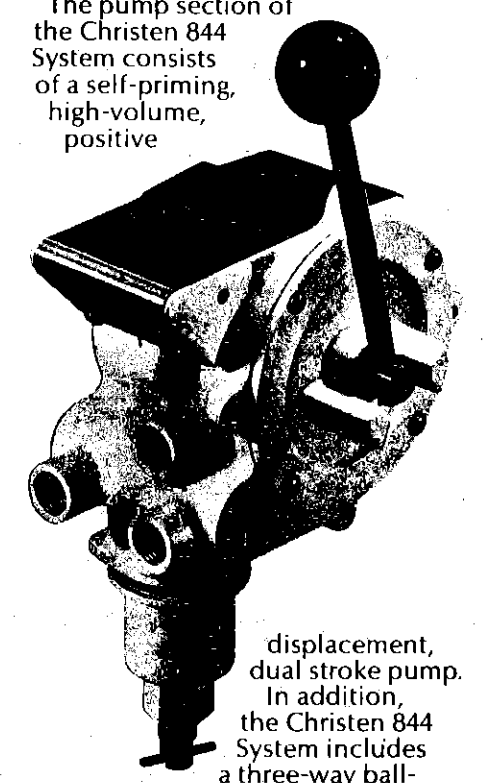


Five-belt system has quick release buckle ... complies with FAA TSO C22f.

\$79.50/SET

Reliable Fuel Control

The Christen 844 Manual Fuel Pump System introduces a new concept in fuel systems for light aircraft. It is a self-contained single fuel control unit which provides all fuel management functions for light aircraft without the need for connection to electrical power.



The pump section of the Christen 844 System consists of a self-priming, high-volume, positive displacement, dual stroke pump. In addition, the Christen 844 System includes a three-way ball-type fuel selector and shut-off valve, a replaceable filter, and a moisture sump with a quick-drain valve. The Christen 844 System functions in all aircraft attitudes and is particularly suited for installation in sport aircraft. Simplicity of design assures reliable trouble-free performance.

ONLY \$297.50
From "Starduster"

S P R U C E

-25-

AIRCRAFT QUALITY SPRUCE: GRADED TO EXCEED THE MINIMUM REQUIREMENTS OF MIL-S-6073. KILN DRIED. AVAILABLE AS FOLLOWS:

TWO SIDES FINISHED: EDGES LEFT FOR BUILDER TO FINISH. NOMINAL WIDTH IS 6".

7/8" to 1-1/8" thick--\$3.30 per linear foot. Lengths up to 24'.
3/4" and less thick-- \$2.65 per linear foot. Lengths up to 24'.

TWO SIDES AND TWO EDGES FINISHED TO BUILDERS DIMENSIONS. EDGES MAY BE TAPERED.

7/8" to 1-1/8" thick--\$3.60 per linear foot. Lengths to 24'.
3/4" and less thick-- \$2.95 per linear foot. Lengths to 24'.

SPRUCE STRIPS: PRICE PER FOOT TO 4'. ADD 25% FOR LENGTHS OVER 4'

| | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
|------|-----|------|-----|------|-----|-----|-----|
| 1/4 | .15 | .15 | .16 | .17 | .17 | .17 | .18 |
| 5/16 | - | .15 | .17 | .20 | .20 | .25 | .27 |
| 3/8 | - | - | .18 | .21 | .21 | .26 | .28 |
| 7/16 | - | - | - | .21 | .21 | .26 | .28 |
| 1/2 | - | - | - | - | .22 | .30 | .35 |
| 5/8 | - | - | - | - | - | .38 | .43 |
| 3/4 | - | - | - | - | - | - | .52 |
| 7/8 | - | - | - | - | - | - | .60 |
| 1 | - | - | - | - | - | - | .75 |

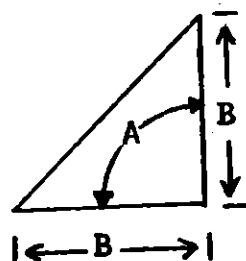
SPECIFY SHORTEST LENGTHS YOU CAN ECONOMICALLY USE.

GROOVED CAP STRIP: 1/4 x 1/4 with 1.5 or 2.5 MM groove--.25/foot

SPRUCE CORNER BLOCK is furnished in various sizes and angles, as listed. Specify angle required, as well as size. Furnished in random 2-4 foot lengths. Angles listed are stock items. Other angles available on special order.

"A"-- 81 degrees, 84 degrees, 96 degrees, and 99 degrees.

| | PRICE PER FOOT | |
|----------|----------------|-----|
| "B"--1/4 | 5/16 | 3/8 |
| .25 | .28 | .30 |



SPRUCE SPECIAL - APPROX 20' OF REMNANTS & CUTOFFS. 1-5' IN LENGTH. \$5.00

PLYWOOD, ADHESIVES, VARNISH, NAILS, ETC.

FINNISH BIRCH AIRCRAFT PLYWOOD

| Thickness | Full Sheet | 1/2 Sheet | 1/4 Sheet | /sq. ft. |
|--------------|---------------------|-----------|-----------|----------|
| 3 mm (1/32") | \$15.08 (50" x 50") | \$8.18 | \$4.35 | \$.88 |
| 5 mm (1/16") | 16.56 (50" x 50") | 8.80 | 4.66 | 1.19 |
| 9 mm (1/12") | 17.98 (50" x 50") | 9.50 | 5.01 | 1.24 |
| 5 mm (3/32") | 19.28 (50" x 50") | 10.15 | 5.33 | 1.32 |
| 9 mm (1/8") | 18.96 (48" x 48") | 10.00 | 5.25 | 1.42 |
| 9 mm (3/16") | 26.53 (50" x 50") | 13.80 | 7.15 | 1.83 |
| 9 mm (1/4") | 30.92 (50" x 50") | 15.95 | 8.25 | 2.14 |

5% + \$3.00 packing charge to all plywood orders

U.S. MANUFACTURED MAHOGANY AIRCRAFT PLYWOOD MIL-P-6070

| Thickness | Full Sheet 48" x 96" | 1/2 Sheet | 1/4 Sheet | Per Sq. ft. |
|-----------|----------------------|-----------|-----------|-------------|
| 6" | \$68.10 | \$35.20 | \$19.03 | \$2.37 |
| " | 71.10 | 36.55 | 17.78 | 2.49 |
| " | 83.10 | 42.55 | 22.78 | 3.38 |

NAILS

CEMENT COATED FLAT HEAD STEEL NAILS PRICE PER POUND

| Size | Gauge | Price |
|------|-------|--------|
| 1/4" | 20 | \$6.25 |
| 3/8" | 20 | \$4.00 |
| 1/2" | 20 | \$4.00 |
| 5/8" | 20 | \$4.00 |
| 3/4" | 20 | \$4.00 |
| 7/8" | 18 | \$4.00 |
| 1" | 18 | \$4.00 |

(.50/oz for less than pound order.)

WATERPROOF RESORCINOL GLUE

WELDWOOD RESORCINOL GLUE

6.95 (TWO-COMPOUND RESIN)

CHARACTERISTICS

WATERPROOF. WITHSTANDS COLD OR BOILING WATER, MOIST OR DRY HEAT, SEVERE COLD, MOLD & FUNGUS. PARTS SHOULD BE CLAMPED. SETS IN 8-10 HOURS.

PLASTIC RESIN GLUE

1/2 oz. .97 WELDWOOD PLASTIC RESIN GLUE

1 oz. 1.35 (UREA-FORMALDEHYDE TYPE)

2 oz. 2.45

4 oz. 4.88 CHARACTERISTICS

HIGH STRENGTH. WATER-RESISTANT. PARTS SHOULD BE CLAMPED. SETS IN 4-6 HOURS FOR SOFTWOOD, 5-6 HOURS FOR HARDWOODS.

DURA FAME by MC CLOSKEY
NEW LIQUID PLASTIC POLYURETHANE
Clear High Gloss Finish

| | |
|----------|--------|
| 1/2 pint | \$3.69 |
| 1 pint | 5.24 |
| 1 quart | 8.19 |
| 1 gal. | 24.89 |

AEROLITE* PRICE LIST

| KIT SIZE | COMPLETE KITS | | | COMPONENTS | | | | | |
|----------|---------------|-----------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|
| | POWDER (LBS.) | HARDENER (LBS.) | KIT PRICE | POWDER | | | HARDENER* | | |
| | WEIGHT (LBS.) | PRICE PER LB. | TOTAL PRICE | WEIGHT (LBS.) | PRICE PER LB. | TOTAL PRICE | WEIGHT (LBS.) | PRICE PER LB. | TOTAL PRICE |
| 1 lb. | 1 | 1/2 | \$ 4.25 | 1 | \$2.50 | \$ 2.50 | 1 | \$2.50 | \$ 2.50 |
| 1 lb. | 3 | 2 | \$ 9.95 | 3 | \$2.05 | \$ 6.15 | 2 | \$1.90 | \$ 3.80 |
| 1 lb. | 5 | 3 | \$ 15.15 | 5 | \$1.95 | \$ 9.75 | 3 | \$1.80 | \$ 5.40 |
| 1 lb. | 15 | 10 | \$ 43.75 | 15 | \$1.85 | \$ 27.75 | 10 | \$1.60 | \$16.00 |
| 1 lb. | 20 | 12 | \$ 52.40 | 20 | \$1.75 | \$ 35.00 | 12 | \$1.45 | \$17.40 |
| 1 lb. | 110 | 55 | \$236.50 | 110 | \$1.50 | \$165.00 | 55 | \$1.30 | \$71.50 |

CALIFORNIAN PLEASE ADD 6% SALES TAX.

PLEASE ADD 5% PACKING CHARGE, MINIMUM OF 50¢ & MAXIMUM \$10.00,

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ENGINE MOUNTS

- 28 - ENGINE

- LYCOMING 108 HP STRAIGHT
- LYCOMING 125 HP STRAIGHT
- LYCOMING 150 HP STRAIGHT
- LYCOMING 180 HP STRAIGHT
- LYCOMING 200 HP DYNAFOCAL
- CONTINENTAL 230 HP 0-470-R SERIES

ACRODUSTER TOO SA750 V-STAR SA900
 STARDUSTER TOO SA300 STARLET SA500

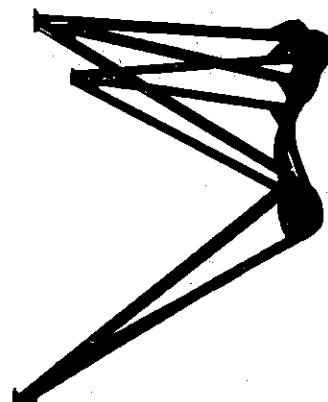
\$135.00

\$135.00

\$205.00

\$205.00

\$ 205.00



COMPLETELY WELDED LYCOMING TYPE 1 DYNAFOCAL ENGINE MOUNT RING \$85.00

PARTS TO MAKE LYCOMING TYPE 1 DYNAFOCAL ENGINE MOUNT RING AND MOUNT HOLDER PARTS \$36.50

0-360 LYCOMING ENGINE MOUNT RUBBERS - SET OF 8 \$58.00

10-540 LYCOMING ENGINE MOUNT RUBBERS - SET OF 8 with SPACER \$88.80

ALL ENGINE MOUNTS AND RINGS ARE CONSTRUCTED FROM 4130 MIL-T-6736 CONDITION N TUBING. THEY ARE HELI-ARC WELDED AND STRESS RELIEVED AFTER WELDING

SPACERS TO GO INSIDE ENGINE MOUNT RUBBERS -----\$3.50/4

SET OF ENGINE MOUNT BOLTS & NUTS - 8 EACH ----- \$11.50

NEW SAFETY WIRE TWISTER



\$32.00

MS 20995 SAFETY WIRE
 Carbon Steel - This is a soft steel wire with a zinc coating. Conforms to Spec. QQ-W-461
 Brass - A soft annealed brass wire. Conforms to Spec. QQ-W-321
 Stainless Steel - This is 18/8 Type 302 stainless steel annealed wire. Conforms to Spec. QQ-W-423. Furnished on dispenser spool as illustrated.



.032 diam. -----\$9.30

\$8.38

LETTERING SET- FOR TWO PLACE BIPLANES. INCLUDES ALL SMALL COCKPIT SIGNS NORMALLY NEEDED WHITE, 1/8" LETTERING. PEEL OFF STICKY BACKS WILL STICK ON ALMOST ANYTHING. \$29.95/SET

AIRFRAME TUBING - CERTIFIED 4130 CHROME MOLY, NORMALIZED CONDITION MIL-T6736

| | .028 | .035 | .049 | .058 | .065 | .083 | .095 | .109 | .120 | .156 | .188 | .219 | .250 |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 4" | 1.30 | 1.30 | 1.44 | * | | | | | | | | | |
| 16 | 1.30 | 1.30 | 1.44 | 1.54 | 1.64 | * | | | | | | | |
| 8 | * | 1.30 | 1.45 | 1.55 | 1.64 | 1.81 | 1.90 | * | 1.98 | * | | | |
| 16 | * | 1.31 | 1.45 | 1.55 | 1.65 | 1.82 | 1.90 | * | 1.99 | * | | | |
| 2 | 1.31 | 1.31 | 1.46 | 1.56 | 1.67 | 1.83 | 1.91 | * | 2.00 | * | | | |
| 16 | * | 1.41 | 1.61 | 1.85 | 2.04 | 2.05 | 2.29 | * | 2.48 | * | 3.49 | * | |
| 8 | * | 1.41 | 1.61 | 1.85 | 2.05 | 2.06 | 2.30 | * | 2.49 | * | * | * | |
| 16 | * | 1.51 | * | * | 2.34 | * | * | * | * | * | * | * | * |
| | * | 1.51 | 1.95 | 2.15 | 2.35 | 2.49 | 2.62 | * | 2.89 | 3.36 | 3.67 | 4.58 | 5.59 |
| | * | 1.61 | 2.11 | 2.16 | 2.55 | 2.87 | 3.04 | * | 3.32 | 3.97 | 4.36 | 4.79 | 5.88 |
| | * | 1.76 | 2.26 | 2.61 | 2.90 | 3.17 | 3.46 | * | 3.71 | 4.54 | 4.94 | * | 6.22 |
| /8 | * | 1.91 | 2.36 | 2.71 | 2.90 | 3.42 | 3.83 | * | 4.15 | 4.94 | 5.64 | * | 6.58 |
| /4 | * | 2.06 | 2.61 | 2.91 | 3.17 | 3.65 | 4.16 | * | 4.42 | 5.29 | 6.09 | * | 7.58 |
| /8 | * | 2.79 | 2.81 | 3.12 | 3.41 | 3.90 | 4.36 | * | 4.68 | 5.74 | 6.62 | 7.24 | 7.86 |
| /2 | * | 2.93 | 2.96 | 4.51 | 3.71 | 4.17 | 4.55 | 4.62 | 5.01 | 6.18 | 7.15 | * | 8.49 |
| /8 | * | 3.13 | 3.16 | 3.60 | 4.00 | 4.45 | 4.84 | * | 5.39 | 6.63 | 7.68 | * | 9.71 |
| /4 | * | 4.46 | 4.26 | 4.29 | 4.31 | 4.74 | 5.22 | * | 5.98 | 7.07 | 8.21 | * | * |
| /8 | * | 4.72 | 4.51 | 4.55 | 4.60 | 5.02 | 5.58 | * | 6.18 | 7.56 | 8.91 | * | * |
| | * | * | 4.69 | 4.70 | 4.76 | * | 5.86 | * | 6.45 | * | * | * | * |
| /8 | * | * | * | 5.04 | * | * | * | * | * | * | * | * | * |

Price Effective: Jan. 23, 1980

Price change due to increase in mill cost of steel. New price reflect our normal mark up formula.

Prices Subject To Change Without Notice

Please order tubes in 6" increment.

10% discount on orders of 100 feet or more of round 4130 tubing. Sizes may be assorted.

3-5 lbs of short lengths of 4130 tubing will be given free for welding practice, with tubing order of more than \$25.00 on request. No size selection will be made.

SMALL ORDERS CAN BE SHIPPED UPS IF TUBING CAN BE CUT INTO LENGTH 7' OR SHORTER - PLEASE ADVISE IF THIS CAN BE DONE, WHEN PLACING ORDER.

STOLP STARDUSTER CORP.

4301 TWINING FLABOB AIRPORT
 RIVERSIDE, CALIFORNIA 92509

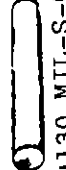
714-686-7943

STREAMLINE TUBING



| Size | Eq. Rd. | .035 | .049 |
|---------------|---------|--------|--------|
| 1.012 x .428 | 3/4 | \$4.15 | \$4.86 |
| 1.180 x .571 | 7/8 | 4.43 | * |
| 1.349 x .571 | 1 | 4.75 | 6.04 |
| 1.685 x .714 | 1 3/4 | 6.67 | 6.96 |
| 2.023 x .857 | 1 1/2 | 8.40 | 8.81 |
| 2.360 x 1.00 | 1 3/4 | * | 10.55 |
| 2.697 x 1.143 | 2 | * | 12.12 |
| 3.372 x 1.429 | 2 1/2 | * | 16.51 |

4130 MIL-S-6758A-3 Norm. Rod



| Per Ft. |
|-------------|
| 3/16 \$.32 |
| 1/4 .43 |
| 5/16 .71 |
| 3/8 .87 |
| 7/16 1.03 |
| 1/2 1.11 |
| 5/8 2.02 |
| 3/4 2.50 |
| 7/8 3.00 |
| 1 1/4 6.80 |
| 1 3/8 9.75 |

FIREWALL MATERIAL

| Thickness | Width | Per Linal Ft. |
|--------------------|-------|---------------|
| Stainless .016 | 36" | \$8.05 |
| Galv. Iron .26 ga. | 36" | \$2.78 |

Sold in required length, full sheet width only

please order tubes in 6" increment.

SQUARE TUBING



| Size | .035 | .049 | .058 | .065 | .095 | .120 |
|-----------|--------|--------|------|------|------|------|
| 3/8 x 3/8 | \$2.20 | \$2.35 | * | * | * | * |
| 1/2 x 1/2 | 2.20 | 2.44 | * | * | * | * |
| 5/8 x 5/8 | 2.33 | 2.65 | 3.00 | 3.45 | * | * |
| 3/4 x 3/4 | 2.45 | 3.16 | 3.54 | 3.81 | * | * |
| 7/8 x 7/8 | 2.62 | 3.43 | 3.80 | 4.53 | * | * |
| 1 x 1 | 2.86 | 3.69 | 4.24 | 4.73 | 5.54 | 6.57 |
| 1 x 1 | 3.51 | * | * | * | * | * |

RECTANGULAR TUBING

| Size | .035 | .049 | .058 | .065 | .095 | .120 |
|-------------|------|------|------|------|------|------|
| 1/4 x 3/8 | * | 2.69 | * | * | * | * |
| 3/4 x 1 1/2 | * | 3.83 | * | * | * | * |
| 7/8 x 1 1/4 | * | * | * | * | 6.29 | * |

WELDING ROD
Oxweld #7 \$1.75/lb.
Mild Steel
Copper Coated
Type recommended in Manual 18 for non-heat treated assemblies.



4130 CHROME MOLY SHEET: CONDITION N MIL-S-18729

| Size | .025 | .032 | .036 | .040 | .050 | .063 | .071 | .080 | .090 | .100 | .125 | .160 | .190 | .250 |
|---------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|--------|
| 1 x 36 | \$1.28 | 1.32 | 1.37 | 1.39 | 1.60 | 1.89 | 2.00 | 2.03 | 2.11 | 2.72 | 3.22 | 4.00 | 5.00 | 6.88 |
| 2 x 36 | 2.33 | 2.42 | 2.50 | 2.55 | 2.97 | 3.50 | 3.77 | 3.83 | 3.89 | 4.55 | 5.77 | 7.31 | 8.69 | 11.43 |
| 3 x 36 | 3.50 | 3.63 | 3.75 | 3.83 | 4.46 | 5.25 | 5.66 | 5.75 | 5.83 | 6.83 | 8.58 | 10.98 | 13.04 | 17.15 |
| 9 x 9 | 2.62 | 2.78 | 2.97 | 3.09 | 3.36 | 3.83 | 4.13 | 4.55 | 4.66 | 5.05 | 6.22 | 8.49 | 9.46 | 12.38 |
| 9 x 18 | 4.16 | 4.55 | 4.72 | 5.17 | 5.72 | 6.64 | 7.27 | 8.01 | 8.27 | 9.10 | 11.34 | 14.99 | 17.32 | 22.87 |
| 18 x 18 | 7.55 | 8.17 | 8.57 | 9.41 | 10.32 | 11.99 | 13.15 | 14.49 | 14.87 | 16.52 | 20.56 | 27.20 | 31.30 | 41.47 |
| 18 x 36 | 14.32 | 15.26 | 16.20 | 17.78 | 19.65 | 22.87 | 25.14 | 27.66 | 28.58 | 31.47 | 39.07 | 52.17 | 59.39 | 78.26 |
| 24 x 36 | * | 19.61 | 20.87 | 22.97 | 25.45 | 29.75 | 32.78 | * | 37.37 | * | 51.36 | * | 78.44 | 116.55 |
| 36 x 36 | 27.53 | * | * | * | * | 49.17 | 54.17 | 61.83 | 102.12 | 117.66 | * | * | * | * |

**AIRPLANES
SPOKEN
HERE**

ALUMINUM SHEET

(10% discount on 12 full sheet. May be assorted.)

2024-0 Alclad
2024-T3 Alclad

| Size | Across Sheet | | | | Per Sq. ft. |
|-------|--------------|------------|-----------|-----------|-------------|
| | 48" x 144" | 48" x 108" | 48" x 72" | 48" x 36" | |
| .016 | \$ 72.00 | \$ 58.00 | \$ 40.00 | \$ 22.00 | \$ 2.63 |
| .020 | 84.00 | 67.00 | 46.00 | 25.00 | 3.06 |
| .025 | 75.00 | 60.25 | 41.50 | 22.75 | 2.74 |
| .032 | 83.00 | 66.25 | 45.50 | 24.75 | 3.03 |
| .040 | 98.50 | 77.88 | 53.25 | 28.63 | 3.59 |
| .050 | 123.50 | 96.63 | 65.75 | 34.88 | 4.50 |
| .063 | 154.50 | 119.88 | 81.25 | 42.63 | 5.63 |
| .071 | 169.00 | 130.75 | 88.50 | 46.25 | 6.16 |
| .090 | 209.00 | 160.75 | 108.50 | 56.25 | 7.61 |
| .100 | 230.00 | 176.50 | 119.00 | 61.50 | 8.38 |
| *.125 | 282.00 | 215.50 | 145.00 | 74.50 | 10.28 |
| *.160 | 363.00 | 276.25 | 185.50 | 94.75 | 13.23 |
| *.190 | 445.00 | 337.75 | 226.50 | 115.25 | 16.22 |
| *.250 | 689.00 | 520.75 | 348.50 | 176.25 | 25.12 |

* Paper masking on both sides.

6061-0 Bare
6061-T4 Bare

| Size | Across Sheet | | | | Per Sq. ft. |
|------|--------------|------------|-----------|-----------|-------------|
| | 48" x 144" | 48" x 108" | 48" x 72" | 48" x 36" | |
| .025 | \$ 68.64 | \$ 55.48 | \$ 38.32 | \$ 21.16 | \$ 2.50 |
| .032 | 81.39 | 65.00 | 44.70 | 24.35 | 2.97 |
| .040 | 96.19 | 76.15 | 52.95 | 28.05 | 3.50 |
| .063 | 117.34 | 92.00 | 62.67 | 33.33 | 4.28 |
| .071 | 132.00 | 103.00 | 70.00 | 37.00 | 4.81 |
| .080 | 148.64 | 115.48 | 78.32 | 41.16 | 5.42 |
| .090 | 167.25 | 129.44 | 87.63 | 45.81 | 6.10 |
| .125 | 229.00 | 175.75 | 118.50 | 61.25 | 8.35 |
| .190 | 354.78 | 270.00 | 181.39 | 92.70 | 12.93 |

5052-H34

| Size | Across sheet | | | | Per sq. ft. |
|------|--------------|------------|-----------|-----------|-------------|
| | 48" x 144" | 48" x 108" | 48" x 72" | 48" x 36" | |
| .040 | \$ 59.50 | \$ 45.63 | \$ 3.75 | \$ 15.88 | \$ 2.15 |

SPECIAL LIMITED AMOUNT
Subject to supply on hand
2024-T3 Alclad

Aluminum Tubing 3003-0
use for fuel, oil, pitot-static lines, conduit, & other applications.

| O.D. wall inches thickness | price /ft. | price /50' roll |
|----------------------------|------------|-----------------|
| 3/16 .028 | \$.32 | \$12.50 |
| 1/4 .032 | .38 | 14.10 |
| 5/16 .032 | .46 | 17.25 |
| 3/8 .035 | .53 | 19.95 |
| 1/2 .049 | .69 | 27.25 |
| 5/8 .049 | .86 | 32.95 |

Aluminum is the worlds most abundant metal, and one of the most suitable structural materials for building Aircraft.

Aluminum alloys are given as 3003, 6061, 2024, and 7075. The letter and numbers following the alloy designation give you the condition of the alloy. The 0 condition means a fully annealed, soft condition. T3, T4, & T6 stand for varying degrees of heat treatment.

Alclad means the alluminum alloy has a thin coating of pure aluminum, .003" Thick, over the alloy. This is for corrosion protection, and contributes nothing to the strength of the material. It scratches very easily, & due to the necessity of handling when cutting, no warranty against scratches in the alclad can be given. These scratches are easy to polish out with an electric eraser. The bare alloys are much harder, & resist scratching much better than the Alclad materials.

- Uses are as follows:
- 3003-0 - Very soft material, used for gas tanks, fairings, or other non structural uses, where compound curvature is required.
 - 2024 - Hard strong material, used for primary structure in the T3 or T4 condition. Easy to work with. The most suitable all around structural material. Non weldable.
 - 6061 - Lower strength structural alloy. Use in the T4 or T6 condition. Highest strength alloy that can be welded.
 - 7075 - The strongest structural aluminum. Use in the T6 condition. More sensitive to notches & rough edges than 2024-T3. Considerably harder to drill holes in.

| FOR YOUR INFORMATION | | | WEIGHT/SQUARE FOOT - POUNDS | | |
|-------------------------------|---------------------------|-------------------------|-----------------------------|--|--|
| Typical Mechanical Properties | Size | 2024 | 6061 | | |
| | .016 | .230 | | | |
| | .020 | .288 | .282 | | |
| | .025 | .360 | .353 | | |
| | .032 | .461 | .452 | | |
| | .040 | .576 | .564 | | |
| | .050 | .720 | .706 | | |
| | .063 | .907 | .889 | | |
| | .071 | 1.02 | 1.00 | | |
| | .080 | 1.15 | 1.13 | | |
| | .090 | 1.30 | 1.27 | | |
| | .100 | 1.44 | 1.41 | | |
| | .125 | 1.80 | 1.76 | | |
| | .160 | 2.30 | 2.26 | | |
| | .190 | 2.74 | 2.68 | | |
| | .250 | 3.60 | 3.53 | | |
| Type | Tensile Strength (P.S.I.) | Yield Strength (P.S.I.) | | | |
| 2024-0 Alclad | 26,000 | 11,000 | | | |
| 2024-T3 Alclad | 65,000 | 45,000 | | | |
| 3003-0 Bare | 16,000 | 6,000 | | | |
| 6061-0 Bare | 18,000 | 8,000 | | | |
| 6061-T4 Bare | 35,000 | 21,000 | | | |

STOLP STARDUSTER CORPORATION 4301 TWINING RIVERSIDE, CALIFORNIA 92509

2024-T3 Structural Aluminum Tubing

| O. D. | Wall Thickness | Price/ft. |
|-------|----------------|-----------|
| 5/8 | .035 | \$1.42 |
| | .049 | 1.56 |
| 3/4 | .058 | 2.18 |
| | .058 | 2.47 |
| 1 | .035 | 1.68 |
| | .049 | 2.18 |
| 1 | .065 | 2.72 |
| | .083 | 3.30 |

2024-T3 Round Aluminum Rod

| Dia. | #/ft. | Price/ft |
|-------|-------|----------|
| 3/4 | .529 | \$ 3.05 |
| 7/8 | .721 | 3.68 |
| 1 | .941 | 4.04 |
| 1 1/8 | 1.193 | 5.25 |
| 3/8 | 1.794 | 8.22 |
| 2 | 3.760 | 14.33 |

6061-T6 Aluminum Tubing 1 1/2 x .049

\$25.00/12' length
\$ 2.30/ft

Aluminum Fuselage Stringers

5/16 x 5/8 x 12' Long \$2.76/length

Re-wall Angle

3/4" x 3/4"

\$5.40/12' Length

1. Square Tubing--6061-T4

1 x 1 x .049 -----\$5.95/ft.

Al. Streamline Tubing --6061-T4

3.372 x 1.428 x .049 x 6' -----\$31.00/length

| GAGE | STANDARD MINIMUM INSIDE BEND RADII IN INCHES (ALUMINUM) | | | | |
|------|---|---------|--------|----------|----------|
| | 3003-0 | 6061-T4 | 7075-0 | 2024-T36 | 2024-T36 |
| | 6061-0 | | | 2024-T4 | 7075-T6 |
| .016 | 1/32 | 1/32 | 1/32 | 1/16 | 3/32 |
| .020 | 1/32 | 1/32 | 1/32 | 1/16 | 3/32 |
| .025 | 1/32 | 1/16 | 1/16 | 3/32 | 1/8 |
| .032 | 1/32 | 1/16 | 1/16 | 1/8 | 5/32 |
| .040 | 1/16 | 1/16 | 1/16 | 5/32 | 3/16 |
| .050 | 1/16 | 3/32 | 3/32 | 3/16 | 1/4 |
| .063 | 1/16 | 1/8 | 1/8 | 7/32 | 5/16 |
| .071 | 3/32 | 1/8 | 1/8 | 9/32 | 3/8 |
| .080 | 3/32 | 5/32 | 3/16 | 11/32 | 7/16 |
| .090 | 3/32 | 3/16 | 3/16 | 3/8 | 1/2 |
| .100 | 1/8 | 7/32 | 7/32 | 7/16 | 5/8 |
| .125 | 1/8 | 1/4 | 9/32 | 9/16 | 7/8 |
| .160 | 5/32 | 3/8 | 7/16 | 3/4 | 1 1/8 |
| .190 | 3/16 | 1/2 | 9/16 | 7/8 | 1 1/4 |

AIRCRAFT PIANO HINGE



Anodized Aluminum

MS20257P4 .040 x 1 x 1 1/2 x 72 - \$5.00

MS20257P5 .051 x 2 x 72 ----- \$7.84

STAINLESS STEEL

1 1/16 x .037 --(price per foot)-- \$2.68

Surplus

1 1/16" x .040

1 1/2" x .040 36"-----\$2.50

3" x .050 72"-----\$5.00

EXTRUDED ALUMINUM PIANO HINGE

with Hinge Wire

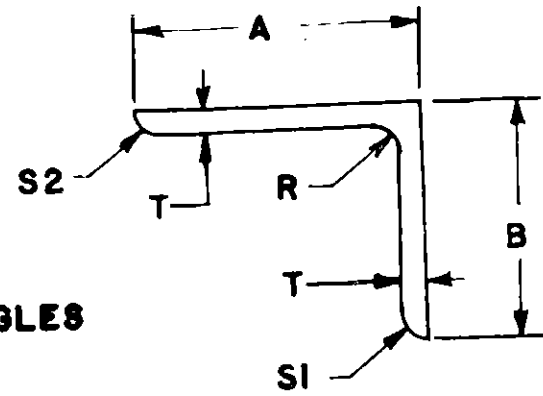
2 1/4"(open width) x .063 x 24"

-----\$9.50/each

1 1/2' (Open width) x .050 x 16"

-----\$5.95/each

**EXTRUDED RIGHT ANGLES
ALUM. ALLOY**

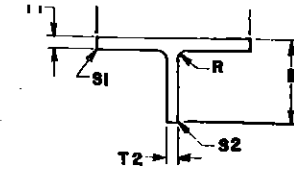


| NUMBER | MAT'L-SPEC | A | B | R | T | S1 | S2 | PRICE |
|---------------|---------------------------|------|------|------|------|------|------|---------|
| AND10133-0401 | 2024-T3511 QQ-A-200/11 | .50 | .50 | .063 | .063 | .063 | .063 | 1.02/ft |
| AND10133-0501 | 2024-T3511 QQ-A-200/3 | .63 | .63 | .063 | .063 | .063 | .063 | 1.22/ft |
| PA 4167 | 2024-T3511 QQ-A-200/3 | 1.00 | 1.50 | | .062 | | | 3.31/ft |
| AND10133-0601 | 2024-T3511 QQ-A-200/3 | .75 | .75 | .094 | .063 | .063 | .063 | 2.37/ft |
| AND10133-1003 | 2024-T3511 QQ-A-200/3 | 1.00 | 1.00 | .188 | .125 | .125 | .125 | 4.39/ft |
| HS1003-DD2 | 2024-T3511 | 1.00 | 1.00 | .062 | .062 | .031 | .031 | 2.23/ft |
| AND10133-1203 | 2024-T3511 | 1.25 | 1.25 | | .125 | | | 5.48/ft |
| AND10133-1201 | 2024-T3511 QQ-A-200/3 | 1.25 | 1.25 | .156 | .063 | .063 | .063 | 3.08/ft |
| AND10134-1407 | 2024-T3511 QQ-A-200/3 | 1.25 | 1.50 | | .125 | | | 6.08/ft |
| AND10133-1403 | 2024-T3511 QQ-A-200/3 | 1.50 | 1.50 | .188 | .125 | .125 | .125 | 6.62/ft |
| HS1004 | 7075-T6511 QQ-A-200/11 | 2.25 | .75 | | .063 | | | 3.38/ft |

STOLP STARDUSTER CORP.

4301 TWINING FLABOB AIRPORT
RIVERSIDE, CALIF. 92509 PH 714-686-7943

**EXTRUDED TEE SECTIONS
ALUM. ALLOY
SYM.- NO BULB**

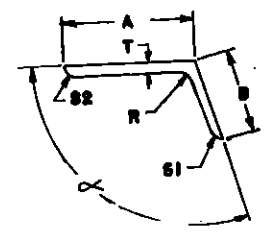


| NUMBER | MAT'L-SPEC | A | B | R | S1 | S2 | T1 | T2 | PRICE |
|---------------------|----------------------------|------|------|------|------|------|------|------|----------|
| 61006-DD30 | 2024-T3511 QQ-A-200/3 | 1.00 | 1.00 | .060 | .016 | .016 | .040 | .040 | 1.55/ft |
| 4031-3 ' Lengths | 7075-T6511 QQ-A-200/11 | 1.50 | 1.25 | .093 | .016 | .016 | .125 | .188 | 5.47/ft |
| 6587 | 2024-T4 QQ-A-267A | 1.63 | 1.75 | .063 | .016 | .016 | .153 | .153 | 9.05/ft |
| 1006AA4 | 7075-T6511 QQ-A-200/11 | 1.63 | 1.75 | .094 | .010 | .010 | .085 | .085 | 3.78/ft |
| 4637 ' Lengths | 2024-T3511 QQ-A-200/3 | 2.00 | 1.50 | .193 | .063 | .063 | .125 | .125 | 7.50/ft |
| 6120 | 2024-T3511 QQ-A-200/3 | 2.00 | 1.50 | .125 | .016 | .016 | .190 | .190 | 11.68/ft |
| 6293 ' Lengths | 2024-T3511 QQ-A-200/3B | 2.25 | 1.25 | .063 | .016 | .016 | .050 | .050 | 3.18/ft |
| 4031-2 | 7075-T6511 QQ-A-200/11B | 2.55 | 1.00 | .093 | .016 | .016 | .063 | .063 | 2.98/ft |
| 010136-2403 | 7075-T6511 QQ-A-200/11C | 2.55 | 1.25 | .125 | .125 | .093 | .063 | .188 | 5.47/ft |
| 4031-4 ' Lengths | 7075-T6511 QQ-A-200/11C | 2.55 | 1.25 | .093 | .016 | .016 | .063 | .188 | 5.47/ft |
| 4013-1 | 7075-T6511 QQ-A-200/11 | 2.70 | .75 | .080 | .010 | .010 | .050 | .050 | 2.23/ft |
| 1006A29 | 7075-0 QQ-A-200/11 | 2.75 | 1.00 | .094 | .010 | .010 | .062 | .062 | 2.03/ft |

Californian please add 6% sales tax.

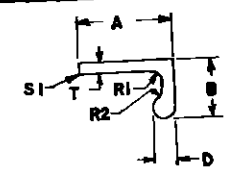
Please add 5% packing charge for all merchandise, minimum of 50¢ & maximum of \$10.00, unless packaged price is shown.

**EXTRUDED OPEN ANGLES
ALUM. ALLOY**



| NUMBER | MAT'L-SPEC | A | B | R | T | S1 | S2 | 92 | PRICE |
|-------------------------|--------------------------|------|------|------|------|------|------|-----|---------|
| HS1019-AB9 | 2014-T6511 QQ-A-200/2 | 1.00 | 1.00 | .062 | .062 | .031 | .031 | 92 | 2.23/ft |
| PA1706 | 7075-0 QQ-A-200/11 | 1.19 | 1.00 | .063 | .050 | .050 | .010 | 102 | 2.03/ft |
| PA1815 (16' Lengths) | 2014-T4511 QQ-A-200/2 | .125 | .105 | .030 | .100 | .030 | .030 | 99 | 3.65/ft |

**EXTRUDED RIGHT BULB ANGLE
ALUM. ALLOY**



| NUMBER | MAT'L-SPEC | A | B | D | T | R1 | R2 | S1 | PRICE |
|------------|---------------------------|-----|-----|------|------|------|------|------|---------|
| HS1005AA21 | 7075-T6511 QQ-A-200/11 | .63 | .50 | .125 | .040 | .062 | .062 | .040 | 1.35/ft |

AND10137-1201
2024-T3511
QQ-A-267 \$4.20/ft

AND10137-1202
2024-T3511
QQ-A-200/3B \$5.40/ft

AND10137-1207
2024-T 4
QQ-A-200-3

\$8.64/ft

HS4018
7075-T6511
QQ-A-200/11

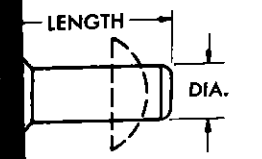
PA7021
7075-T6511
QQ-A-200/11

\$3.07/ft \$4.05/ft

80-369A2513 "J" STRINGER
2024-T3 ALCLAD
QQ-A-250/5

\$3.70/11 ft

please order in 6" increment.

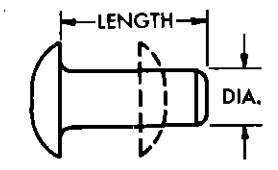


426
COUNTERSUNK HEAD
(AN426)

**SOLID RIVETS
ALUMINUM AND MONEL**

| Dia. & Length | Price per pound | | | | Price each | |
|------------------|-----------------|---------|---------|---------|------------|--------|
| | AN426A | AN426AD | AN470A | AN470AD | AN427M | AN470M |
| 1/16x3/16 | | \$30.00 | | \$30.00 | | |
| 1/16x3/8 | | | | 26.00 | | |
| 3/32x1/8 | | 42.00 | | | | |
| 3/32x3/16 | \$20.60 | 19.50 | | 22.67 | | |
| 3/32x1/4 | 16.50 | 23.00 | \$18.27 | 21.00 | \$.04 | \$.07 |
| 3/32x5/16 | 15.80 | 17.90 | 17.47 | 20.00 | | |
| 3/32x3/8 | 14.80 | 20.00 | | 18.67 | | |
| 3/32x7/16 | | 14.20 | 16.07 | 19.33 | | |
| 3/32x1/2 | 16.17 | 19.33 | | 13.23 | | |
| 3/32x9/16 | | 29.00 | | | | |
| 3/32x5/8 | | | | 12.70 | | |
| 3/32x3/4 | 16.95 | | | 22.50 | .11 | .13 |
| 1/8x3/16 | | 19.67 | | 17.00 | | .09 |
| 1/8x1/4 | 18.33 | 18.50 | 10.77 | 15.33 | .07 | .11 |
| 1/8x5/16 | 17.00 | 17.00 | 14.00 | 14.33 | .09 | .12 |
| 1/8x3/8 | 9.95 | 17.00 | 10.37 | 10.63 | .10 | .13 |
| 1/8x7/16 | | 15.67 | 10.37 | | | |
| 1/8x1/2 | 19.00 | 15.00 | 9.68 | 11.13 | .12 | .14 |
| 1/8x9/16 | | 15.00 | | 10.32 | | |
| 1/8x5/8 | 15.00 | 15.67 | | 15.00 | .13 | .16 |
| 1/8x3/4 | 17.00 | 15.33 | | 10.20 | | |
| 1/8x7/8 | | 10.77 | | 14.67 | | |
| 1/8x1 | 17.00 | 11.53 | | 12.60 | | |
| 1/8x5/4 | | | | 15.00 | | |
| 1/8x21/16 | | 29.90 | | | | |
| 5/32x3/16 | | 15.63 | | 18.30 | | |
| 5/32x1/4 | | 18.67 | | 12.67 | | |
| 5/32x5/16 | | 13.00 | | 13.33 | | |
| 5/32x3/8 | | 10.00 | 12.00 | 12.00 | | |
| 5/32x7/16 | | 12.67 | | 12.00 | | |
| 5/32x1/2 | | 12.67 | 14.00 | 11.67 | | .19 |
| 5/32x9/16 | | 10.37 | 13.00 | 11.00 | | |
| 5/32x5/8 | | | | 10.20 | .19 | |
| 5/32x11/16 | | | | 13.00 | | |
| 5/32x3/4 | | 10.13 | | 13.00 | | |
| 5/32x7/8 | | | | 9.10 | | |
| 5/32x1 | | 13.67 | | 9.10 | | |
| 5/32x21/16 | | | | 15.00 | | |
| 3/16x3/16 | | 12.50 | | | | |
| 3/16x1/4 | | 11.10 | | | | |
| 3/16x5/16 | | 15.43 | | | | |
| 3/16x3/8 | | 9.40 | 12.50 | 11.33 | | |
| 3/16x7/16 | | 11.80 | 12.50 | 11.33 | | |
| 3/16x1/2 | | 9.60 | | 10.67 | | |
| 3/16x9/16 | | | | 10.67 | | |
| 3/16x5/8 | | 11.81 | | 9.60 | | |
| 3/16x11/16 | | 13.47 | | | | |
| 3/16x3/4 | | 10.10 | | 7.90 | | |
| 3/16x18/16 | | | | 13.47 | | |
| 3/16x1 1/2 | | | | 15.00 | | |

On Monel Rivets order:
10% off on 100-199 each,
20% off on 200 & over.



MS20470 UNIVERSAL HEAD
(AN-470)

the MS20426 and the MS20470 types are the most widely used today. Manufactured to MIL-R-5674, these two types are available for immediate shipment in most sizes in two materials: 'hard' 2117 aluminum alloy (AD) and 'soft' 1100 pure aluminum (A).

'A' rivets have a minimum tensile strength of 16,000 psi; 'AD' rivets are heat treated, have a shear strength of 26,000 psi and a tensile strength of 38,000 psi.

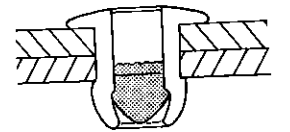
Examples of part numbers:
MS20426A3-12 (3/32" dia., 3/4" long, 1100 alum.)
MS20470AD3-12 (3/32" dia., 3/4" long, 2117 alum. alloy)

NOTE:
MS20426 and MS20470 rivets of like dash numbers are interchangeable with AN426 and AN470 rivets respectively.

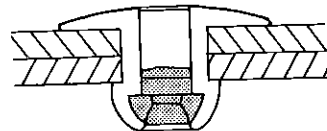
| DASH NUMBER | QUANTITY PER POUND | |
|-------------|--------------------|---------|
| | MS20470 | MS20426 |
| 3-2 | 4107 | 6406 |
| 3-3 | 3485 | 5003 |
| 3-4 | 3027 | 4103 |
| 3-5 | 2675 | 3478 |
| 3-6 | 2397 | 3018 |
| 3-7 | 2171 | 2666 |
| 3-8 | 1826 | 2161 |
| 3-10 | 1576 | 1817 |
| 3-12 | 2003 | - |
| 4-3 | 1734 | 2810 |
| 4-4 | 1529 | 2308 |
| 4-5 | 1367 | 1958 |
| 4-6 | 1236 | 1700 |
| 4-7 | 1128 | 1502 |
| 4-8 | 1037 | 1346 |
| 4-9 | 960 | 1219 |
| 4-10 | 836 | 1025 |
| 4-12 | 740 | 885 |
| 4-14 | 664 | 755 |
| 4-16 | 994 | 1731 |
| 5-4 | 888 | 1440 |
| 5-5 | 802 | 1226 |
| 5-6 | 802 | 1079 |
| 5-7 | 672 | 946 |
| 5-8 | 621 | 849 |
| 5-9 | 578 | 770 |
| 5-10 | 507 | 649 |
| 5-12 | 407 | 494 |
| 5-16 | 566 | - |
| 6-5 | 515 | 846 |
| 6-6 | 472 | 738 |
| 6-7 | 436 | 654 |
| 6-8 | 406 | 588 |
| 6-9 | 379 | 534 |
| 6-10 | 334 | 451 |
| 6-12 | 271 | 343 |
| 6-16 | 271 | 343 |
| | AN470M | AN427M |
| 3-4 | 1000 | 1500 |
| 3-12 | 457 | 550 |
| 4-4 | 540 | 800 |
| 4-5 | 435 | 640 |
| 4-6 | 365 | 533 |
| 4-10 | 291 | 365 |
| 5-8 | 215 | - |
| 5-10 | - | 229 |

order 1/4 lbs. Add 10% to price shown quantity per pound.

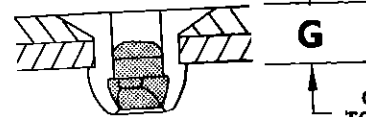
ON THE USE OF POP RIVETS - Steel or Monel pop rivets can be substituted for aircraft driven rivets on a one for one basis, in amateur built aircraft. We recommend the use of stainless steel pop rivets with a stainless steel mandrel when making such a substitution. Be sure to drill round holes of the proper size. Pop rivets will not swell as much as driven rivets. There fore, the hole size is more critical. Also, the steel pop rivet should be dipped in Zinc chromate before being installed.



PROTRUDING HEAD



LARGE HEAD



FLUSH HEAD

GRIP IS TOTAL OF MATERIAL THICKNESS

| RIVET DIAM. | G RIVET GRIP RANGE | L RIVET LENGTH MAX. | AA SERIES Aluminum Rivet Aluminum Mandrel Grade 11 | | | Price | | | CC SERIES Stainless Rivet Stainless Mandrel Grade 51 | | | Price | | |
|-------------|--------------------|---------------------|--|------------|------------|-------|------------|-------------|--|------------|------------|-------|------------|-------------|
| | | | Prot. Head | Large Head | Flush Head | Each | 100-299 /c | Over 300 /c | Prot. Head | Large Head | Flush Head | Each | 100-299 /c | Over 300 /c |
| 3/32 | .063-.125 | .250 | AAP-32 | - | AAC-32 | .06 | 4.95 | 3.95 | CCP-32 | - | CCC-32 | .10 | 8.50 | 7.25 |
| | .126-.250 | .375 | AAP-34 | - | AAC-34 | .06 | 4.95 | 3.95 | CCP-34 | - | CCC-34 | .11 | 9.35 | 7.95 |
| 1/8 | Up to .062 | .212 | AAP-41 | - | - | .08 | 6.80 | 5.75 | CCP-41 | - | - | .14 | 11.90 | 10.15 |
| | .063-.125 | .275 | AAP-42 | AAL-42 | AAC-42 | | | | CCP-42 | CCL-42 | CCC-42 | .13 | 11.05 | 9.40 |
| | .126-.187 | .337 | | | | | | | CCP-43 | - | CCC-43 | .14 | 11.90 | 10.15 |
| | .188-.250 | .400 | | | | | | | CCP-44 | - | CCC-44 | .14 | 11.90 | 10.15 |
| | .251-.312 | .462 | | | | | | | CCP-45 | - | - | .15 | 12.75 | 10.85 |
| 3/16 | .063-.125 | .325 | AAP-62 | | | | | | CCP-46 | - | - | .15 | 12.75 | 10.85 |

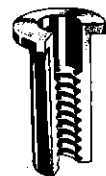
*CCP-41 no longer available. We supply MK419BS-Equivalent pop rivets.

CCR264-CS-3-2) 30¢ each \$27.00/c \$25.00/c (over 300)
CCR264-CS-3-4 For installing nut plate - flush head.

(3/32" Diam. with serrated mandrels.)

RIVNUTS

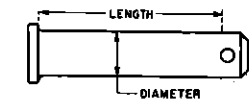
| PART NUMBER | SCREW SIZE | GRIP RANGE | HEAD TYPE |
|-------------|------------|------------|-------------|
| A6-75 | 6 | .010-.075 | Flat |
| A6-106 | | .065-.106 | 100 deg. CS |
| A6-120 | | .075-.120 | Flat |
| A8-75 | 8 | .010-.075 | Flat |
| A8-106 | | .065-.106 | 100 deg. CS |
| A8-120 | | .075-.120 | Flat |
| A10-80 | 10 | .010-.080 | Flat |
| A10-140 | | .080-.140 | Flat |



| Part # | Price each | Price /c |
|---------|------------|----------|
| A6-75 | .26 | 24.00 |
| A6K-75 | .21 | 19.00 |
| A6-106 | .32 | 28.00 |
| A6K-106 | .32 | 28.00 |
| A6-120 | .28 | 25.00 |
| A6K-120 | .28 | 25.00 |
| A8-75 | .25 | 22.00 |
| A8K-75 | .25 | 22.00 |
| A8-106 | .38 | 34.00 |
| A8K-106 | .55 | 50.00 |
| A8-120 | .27 | 24.00 |
| A10-80 | .32 | 29.00 |
| A10K-80 | .28 | 25.00 |

Keved Type:Part Number Example. A6K-106

CLEVIS PINS



Made of steel per specification MIL-P-5673; cadmium plated per QQ-P-416. Drilled hole for cotter pin. Order by MS number, per table below.

Clevis Pins larger than those shown in the table are also available. Price and delivery on request.

AN Number and Diameter, Price each

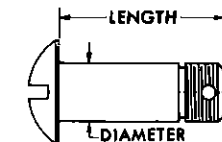
| Dash No. | AN392 1/8" | AN393 3/16" | AN394 1/4" | AN395 5/16" | AN396 3/8" | AN397 7/16" |
|------------|------------|-------------|------------|-------------|------------|-------------|
| -7 to -11 | .10 | .11 | .15 | * | * | * |
| -13 to -17 | .10 | .13 | .19 | .24 | * | * |
| -19 to -23 | .12 | .17 | .23 | .30 | .42 | .70 |
| -25 to -29 | .14 | .21 | .27 | .36 | .48 | * |
| -31 to -35 | .16 | .24 | .31 | .42 | .56 | * |
| -37 to -41 | .18 | .30 | .36 | .48 | * | * |
| -43 to -47 | .20 | .36 | .42 | .54 | * | * |
| -49 to -53 | .25 | .40 | .50 | .60 | * | * |
| -55 to -59 | .30 | .45 | .58 | .66 | * | * |
| -61 to -65 | .40 | .55 | .66 | .72 | * | * |
| -67 to -71 | .50 | .65 | .74 | .80 | * | * |
| -73 to -77 | * | * | .80 | .88 | * | * |
| -79 to -83 | * | * | .90 | .98 | * | * |
| -85 to -89 | * | * | 1.00 | 1.08 | * | * |
| -91 | * | * | 1.10 | * | * | * |

(* Not stocked)

10% off on lot of 100 of same kind.

| AN Dash Number | Effective Length |
|----------------|------------------|
| -7 | 7/32 |
| -9 | 9/32 |
| -11 | 11/32 |
| -13 | 13/32 |
| -15 | 15/32 |
| -17 | 17/32 |
| -19 | 19/32 |
| -21 | 21/32 |
| -23 | 23/32 |
| -25 | 25/32 |
| -27 | 27/32 |
| -29 | 29/32 |
| -31 | 31/32 |
| -33 | 1-1/32 |
| -35 | 1-3/32 |
| -37 | 1-5/32 |
| -39 | 1-7/32 |
| -41 | 1-9/32 |
| -43 | 1-11/32 |
| -45 | 1-13/32 |
| -47 | 1-15/32 |
| -49 | 1-17/32 |
| -51 | 1-19/32 |
| -53 | 1-21/32 |
| -55 | 1-23/32 |
| -57 | 1-25/32 |
| -59 | 1-27/32 |
| -61 | 1-29/32 |
| -63 | 1-31/32 |
| -65 | 2-1/32 |
| -67 | 2-3/32 |
| -69 | 2-5/32 |
| -71 | 2-7/32 |
| -73 | 2-9/32 |
| -75 | 2-11/32 |
| -77 | 2-13/32 |
| -79 | 2-15/32 |
| -81 | 2-17/32 |
| -83 | 2-19/32 |
| -85 | 2-21/32 |
| -87 | 2-23/32 |
| -89 | 2-25/32 |
| -91 | 2-27/32 |

AN21-AN36 CLEVIS BOLTS



Clevis bolts manufactured to Specification MIL-B-6812, and meet or exceed double shear strength requirements as per MIL-H-6875. Made of non-corrosion-resisting steel; cadmium plated per QQ-P-416.

Examples of part numbers for a Clevis Bolt having a 1/2-28 diameter and a nominal length of 1":
AN24-16 (has cotter pin hole)
AN24-16A (no cotter pin hole)

| Diag. -No. | AN22 8-36 | AN23 10-32 | AN24 1/4-28 | AN25 5/16-24 | AN26 3/8-24 |
|------------|-----------|------------|-------------|--------------|-------------|
| 8-11 | .18* | .18 | .23 | .60 | .83 |
| 12-15 | | .22 | .26 | .65 | 1.08 |
| 16-19 | | .27 | .33 | .75 | 1.30 |
| 20-23 | | .41 | .48 | .88 | 1.45 |
| 24-27 | | .54 | .64 | .95 | 1.75 |
| 28-31 | | .60 | .70 | 1.20 | 1.85 |
| 32-35 | | .75 | .87 | 1.35 | 2.00 |
| 36-40 | | .87 | 1.05 | 1.70 | 2.35 |
| -62 | | | 2.00 | | |

(Only AN22-9 in stock.)

Available with or without cotter pin hole drilled in shank.

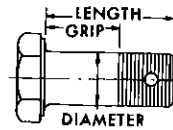
AN3-AN8 AIRFRAME BOLTS

AN3-AN8 CADMIUM-PLATED STEEL BOLTS (DRILLED AND UNDRILLED)

A non-corrosion-resistant steel machine bolt which conforms to Specification MIL-B-6812. Cadmium plated to Specification QQ-P-416.

Available with or without single hole through shank and/or single hole through head. Examples of part members for a cadmium plated steel bolt having a diameter of 1/4" and nominal length of 1"

- AN4-6 (For drilled shank)
- AN4-6A (Designates undrilled shank)
- AN4H6 (Drilled head, drilled shank)
- AN4H6A (Drilled head, undrilled shank)



NUT AND COTTER PIN SIZES

| AN NUMBER | DIAM | PLAIN NUT AN NUMBER | CASTLE NUT AN NUMBER | COTTER PIN MS NUMBER |
|-----------|------|---------------------|----------------------|----------------------|
| AN3 | 3/16 | AN315-3R | AN310-3 | MS24665-132 |
| AN4 | 1/4 | AN315-4R | AN310-4 | MS24665-132 |
| AN5 | 5/16 | AN315-5R | AN310-5 | MS24665-132 |
| AN6 | 3/8 | AN315-6R | AN310-6 | MS24665-283 |
| AN7 | 7/16 | AN315-7R | AN310-7 | MS24665-283 |
| AN8 | 1/2 | AN315-8R | AN310-8 | MS24665-283 |

AN3-AN8

| DASH NO. | MS NO. |
|----------|--------|
| -3 | 31 |
| -4 | 31 |
| -5 | 31 |
| -6 | 31 |
| -7 | 31 |
| -10 | 31 |
| -11 | 31 |
| -12 | 31 |
| -13 | 31 |
| -14 | 31 |
| -15 | 31 |
| -16 | 31 |
| -17 | 31 |
| -20 | 31 |
| -21 | 31 |
| -22 | 31 |
| -23 | 31 |
| -24 | 31 |
| -25 | 31 |
| -26 | 31 |
| -27 | 31 |
| -30 | 31 |
| -31 | 31 |
| -32 | 31 |
| -33 | 31 |
| -34 | 31 |
| -35 | 31 |
| -36 | 31 |
| -37 | 31 |
| -40 | 31 |

AN3 TO AN8 PRICE EACH (specify drilled or undrilled shank-A)

| AN No. | Dia. In. | Dash No. | | | | | | | | | | | |
|--------|----------|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 3-6 | 7-12 | 13-16 | 17-22 | 23-26 | 27-32 | 33-36 | 37-42 | 43-46 | 47-52 | 53-56 | 57-60 |
| AN3 | 3/16 | .12 | .15 | .18 | .24 | .32 | .32 | .64 | 1.00 | 1.30 | 1.60 | 1.85 | 2.20 |
| AN4 | 1/4 | .16 | .19 | .24 | .35 | .46 | .56 | .75 | 1.15 | 1.55 | 1.70 | 2.00 | 2.35 |
| AN5 | 5/16 | .20 | .24 | .36 | .42 | .60 | .78 | .98 | 1.38 | 1.75 | 1.95 | 2.20 | 2.50 |
| AN6 | 3/8 | .32 | .40 | .46 | .60 | .75 | .90 | 1.20 | 1.55 | 1.90 | 2.10 | 2.45 | 2.75 |
| AN7 | 7/16 | .39 | .48 | .60 | .72 | .94 | 1.15 | 1.40 | 1.70 | 2.05 | 2.45 | 2.90 | 3.30 |
| AN8 | 1/2 | * | .90 | 1.10 | 1.32 | 1.45 | 1.60 | 1.85 | 2.35 | 2.60 | 2.90 | 3.30 | 3.75 |

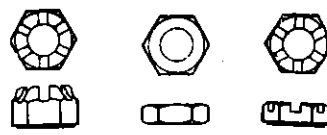
(10% off on lot of 100 of same kind.)

NAS1104 - 8D \$.30
NAS1104 -13D \$.45

AIRFRAME NUTS



CASTLE CHECK -SHEAR



| size | Dash No. | AN363 | AN364 | AN365 | Dash No. | AN310 | AN316 | AN320 |
|------|----------|-------|-------|-------|----------|-------|-------|-------|
| 4 | -440 | * | .10 | .10 | * | * | * | * |
| 6 | -632 | * | .10 | .10 | * | * | * | * |
| 8 | -832 | * | .10 | .10 | * | * | * | * |
| 3/16 | -1032 | .16 | .12 | .12 | -3 | .14 | .10 | .14 |
| 1/4 | -428 | .18 | .14 | .14 | -4 | .16 | .12 | .16 |
| 5/16 | -524 | .20 | .16 | .16 | -5 | .18 | .16 | .18 |
| 3/8 | -624 | .22 | .20 | .20 | -6 | .20 | .20 | .20 |
| 7/16 | -720 | .30 | .30 | .26 | -7 | .24 | .55 | .24 |
| 1/2 | -820 | .40 | .40 | .40 | -8 | .42 | .70 | .42 |
| | | | | | -10 | .74 | * | .74 |

(10% off on lot of 100 of same kind)

EB-624 Nuts \$3.00


| DASH NUMBER | DIAMETER & THREAD | COTTER PINS USED WITH AN310 & AN320 |
|-------------|-------------------|-------------------------------------|
| -3 | No. 10-32 | AN380-2-2 |
| -4 | 1/4-28 | AN380-2-2 |
| -5 | 5/16-24 | AN380-2-2 |
| -6 | 3/8-24 | AN380-3-3 |
| -7 | 7/16-20 | AN380-3-3 |
| -8 | 1/2-20 | AN380-3-3 |
| -9 | 9/16-18 | AN380-4-4 |
| -10 | 5/8-18 | AN380-4-4 |
| -12 | 3/4-16 | AN380-4-5 |

NOTE: AN316 check nut available left hand thread at no extra cost.

ANCHOR, ONE LUG NA17A

6-32 thru 5/16-24 to 250° F.

NAS1025, MS21080




CARBON STEEL, CADMIUM PLATED

| PART NO. (ESNA) | THREAD | price ea. |
|-----------------|-----------|-----------|
| 22NA17A-62 | (6-32) | 50 ¢ |
| 22NA17A-82 | (8-32) | 50 ¢ |
| 22NA17A-02 | (10-32) | 55 ¢ |
| 22NA17A-048 | (1/4-28) | 55 ¢ |
| 22NA17A-054 | (5/16-24) | 65 ¢ |

ANCHOR, CORNER NA5

6-32 thru 3/8-18 to 250° F.

NAS1027, MS21081




CARBON STEEL, CADMIUM PLATED

| PART NO. (ESNA) | THREAD | PRICE ea. |
|-----------------|-----------|-----------|
| 22NA5-62 | (6-32) | 50 ¢ |
| 22NA5-82 | (6-82) | 50 ¢ |
| 22NA5-02 | (10-32) | 50 ¢ |
| 22NA5-048 | (1/4-28) | 50 ¢ |
| 22NA5-054 | (5/16-24) | 65 ¢ |

ANCHOR, RIGHT ANGLE BRACKET NA7 AN256F

6-32 thru 10-32 to 250° F.




CARBON STEEL, CADMIUM PLATED

| PART NO. (ESNA) | THREAD | PRICE ea. |
|-----------------|---------|-----------|
| 22NA7-62 | (6-32) | 50 ¢ |
| 22NA7-82 | (8-32) | 50 ¢ |
| 22NA7-02 | (10-32) | 50 ¢ |


PALNUTS

MS27151 Stamped Nuts
Replaces AC356 Palnuts. Carbon steel, cadmium plated to specification QQ-P-416. Type II Class 3.



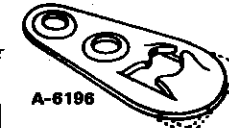
| PART NO. | AC PART NO. | SIZE & THREAD | price each |
|-----------|-------------|---------------|------------|
| MS27151-6 | AC356-832 | 8-32 | \$.02 |
| -7 | -1032 | 10-32 | |
| -13 | -428 | 1/4-28 | |
| -16 | -524 | 5/16-24 | .03 |
| -19 | -624 | 3/8-24 | .05 |
| -21 | -720 | 7/16-20 | .07 |
| -24 | -820 | 1/2-20 | .16 |

ANCHOR TYPE SPEED NUTS



Most practical method to attach access plates, doors, or any part that must be fastened securely, yet easily removed with fasteners retained in blind location. Riveted or welded in screw-receiving position, they make firm, vibration-proof attachments. Types shown are for 3/32" dia. rivets. All except A6191 are for use with for 100 degree flat head rivets.

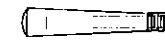
| PART NUMBER | SCREW SIZE B or Z | MATERIAL THICKNESS | price ea. |
|-------------------|-------------------|--------------------|-----------|
| A6191-8Z-1 (or-3) | 8 | .028 | \$.12 |
| A6195-6Z-1 | 6 | .025 | |
| A6195-8Z-1 | 8 | .028 | |
| A6162-8Z-1 | 8 | .028 | |
| A6196-6Z-1 (or-3) | 6 | .025 | |
| A6196-8Z-1 | 8 | .028 | |
| A6163-8Z-1 | 8 | .028 | |



All Parts—Aircraft Spacing Steel & Heat Treated


AN386

Threaded Taper Pin




| AN386 | SIZE | price |
|-------|--------|-------|
| -8A | \$1.25 | |
| -12A | \$1.35 | |

AN350 - Wing Nut



| number | price |
|--------|-------|
| - 1032 | 25¢ |
| - 4 | 30¢ |
| - 5 | 35¢ |

MS15003-4 ZERK FITTING




Surface Check Fittings have 1/8 P.T.F. pipe threads; made of cadmium plated steel. 9/32 shank. 3/16 thread length. 1 3/32 overall length. 7/16 hex size. Tip turn radius 45°. \$.60/each

ANCHOR, TWO LUG NA1 AN366F

4-40 thru 3/8-18 to 250° F.

MS21078, NAS1023, AN366

CARBON STEEL, CADMIUM PLATED

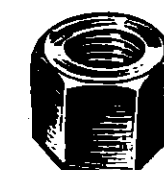


| PART NO. (ESNA) | MILITARY SPEC. NO. | THREAD | price ea. |
|-----------------|--------------------|-----------|-----------|
| 22NA1-62 | AN366F-632 | (6-32) | 30 ¢ |
| 22NA1-82 | AN366F-832 | (8-32) | 30 ¢ |
| 22NA1-02 | AN366F-1032 | (10-32) | 40 ¢ |
| 22NA1-048 | AN366F-428 | (1/4-28) | 40 ¢ |
| 22NA1-054 | AN366F-524 | (5/16-24) | 60 ¢ |
| 42NA1-064 | AN366F-624 | (3/8-24) | 60 ¢ |

ENGINE NUTS

EXHAUST MANIFOLD

Naval brass. Meets NAF-213790



| PART NUMBER | CONTINENTAL NUMBER | SIZE & THREAD | each |
|-------------|--------------------|---------------|--------|
| NAF213790-4 | #21247 | 1/4-28 | \$.45 |
| NAF213790-5 | #22022 | 5/16-24 | |

TINNERMAN NUTS

STANDARD FINISHES FOR AIRCRAFT PARTS

proofing of Tinnerman fasteners. To specify desired finish use corresponding dash number shown below as the last dash number affixed to the part number. Other finishes for component sub-assemblies are available upon request.

-1 FINISH (PHOSPHATE AND THREE COATS PHENOLIC PAINT)

-27 FINISH (SOLUBLE OIL DIPPED)

-3D FINISH (ZINC ELECTRO-PLATE)

-3 FINISH (ZINC METAL SPRAY AND DI-CHROMATE DIP)

-24A FINISH (CADMIUM ELECTRO-PLATE)

NOTE: Speed Nuts for aircraft are designed to fit standard AN530 type "B" or "Z" sheet metal screws only. Information on Speed Nuts for commercial use with standard machine screws and "A"-type screws will be furnished upon request. Important-do not use pointed type "A" sheet metal screws with aircraft Speed Nuts. There is a difference in root diameter and thread pitch.

USE WITH TYPE B (BLUNT TAPER AT END) TAPPING SCREWS:

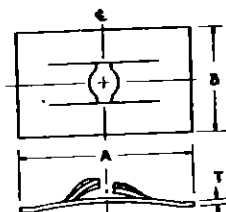
| PART NUMBER | SCREW SIZE | A LENGTH | B WIDTH | price ea. |
|-------------------|------------|----------|---------|-----------|
| A1776-4Z-1 | 4B | .500 | .312 | 10¢ |
| A1181-6Z-1 | 6B | .515 | .312 | |
| A1777-6Z-1 | 6B | .625 | .437 | |
| A1778-8Z-1 (& -3) | 8B | .625 | .437 | |
| A1779-10Z-1 | 10B | .875 | .500 | |

| PART NUMBER | SCREW SIZE | PRICE ea. |
|-------------|------------|-----------|
| A105-440-1 | 4-40 | 10¢ |
| A1322-632-1 | 6-32 | |
| A1322-832-1 | 8-32 | |

FOR USE WITH MACHINE SCREWS



FLAT TYPE



The Flat Type Speed Nut is the basic design from which thousands of Speed Nut brand fasteners have been developed.

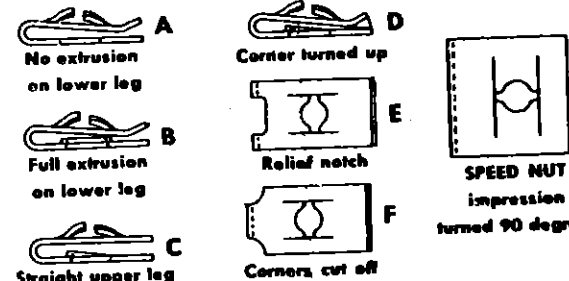
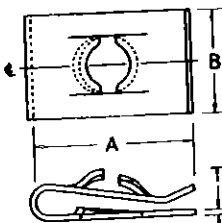
Flat Type Speed Nuts replace threaded nuts, lock washers and spanner washers; weigh less than other types of self-locking aircraft fasteners. They can be applied faster, easier, and are vibration resistant. They provide maximum holding power at minimum cost per fastener. Turned-up ends on Flat Type Speed Nuts for aircraft prevent scoring of surfaces.

DESIGN VARIATIONS AVAILABLE



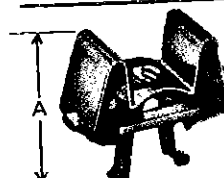
"U TYPE"

Self-retaining "U" Type, press easily into locked-on position over panel edges or in center panel locations. They hold themselves in a screw-receiving position and are ideally suited for blind assembly or hard-to-reach locations. Eliminated are welding, staking, riveting or other secondary fastening methods. Ideally suited where full bearing surface on the lower leg of the SPEED NUT is required.



| PART NUMBER* | NAS PART NUMBER | SCREW SIZE B or Z | DESIGN VARIATION | PANEL RANGE | A LENGTH | B WIDTH | price ea. |
|-------------------|-----------------|-------------------|------------------|-------------|----------|---------|-----------|
| A6187-4Z-1 (or-3) | 395-1 | 4 | CD | .025-.032 | .375 | .312 | 12¢ |
| A1784-6Z-1 (or-3) | 395-6 | 6 | E | .025-.051 | .640 | .437 | |
| A1785-6Z-1 (or-3) | 395-7 | 6 | EH | .025-.064 | .843 | .437 | |
| A6052-6Z-1 | 395-3 | 6 | | .032-.040 | .468 | .500 | 15¢ |
| A1274-8Z-1 (or-3) | 395-14 | 8 | DEH | .025-.032 | .500 | .500 | |
| A1348-8Z-1 | 395-17 | 8 | AE | .025-.064 | .750 | .500 | |
| A1786-8Z-1 (or-3) | 395-12 | 8 | CEH | .040-.051 | .531 | .500 | |
| A1787-8Z-1 (or-3) | 395-18 | 8 | E | .025-.064 | .843 | .437 | |
| A1788-8Z-1 (or-3) | None | 8 | AE | .025-.064 | .843 | .437 | 20¢ |
| A1789-8Z-1 (or-3) | 395-16 | 8 | E | .025-.051 | .640 | .437 | |
| A1932-8Z-1 | 396-4 | 8 | BE | .032-.051 | .593 | .500 | 29¢ |
| A1350-10Z-1 | 395-25 | 10 | AE | .025-.064 | .750 | .500 | |

*Use Tinnerman part number when ordering



INSTRUMENT MOUNTING

Cage-type Speed Nuts permit mounting of aircraft instruments from the front of the panel. Cage is easily compressed with finger-pressure to allow insertion of legs into clearance holes. When fully inserted and pressure is released, legs spring apart, retain Speed Nut in screw-receiving position. Turned-down corners hold firm against force of inserting screw and screw-tightening torque.

| NAS PART NUMBER | PART NUMBER* | PANEL THICKNESS | A | SCREW SIZE | WEIGHT lbs. per 1000 | price each |
|-----------------|--------------|-----------------|------|-----------------------------------|----------------------|------------|
| 487-14 | A8939-632- | .091 | .468 | Standard Brass 6-32 Machine Screw | 3.69 | 55¢ |

TYPICAL PART NUMBER: A8938-632-24J
Approved for front mounting of instruments; no change in panel or instrument design required; Non-magnetic, conforms to MIL-N-3336. Restraining torque, approx. 1/2 inch pound.

Approved for use on military aircraft.
*Furnished in 24J Finish (Cadmium Plated per QQP-416)

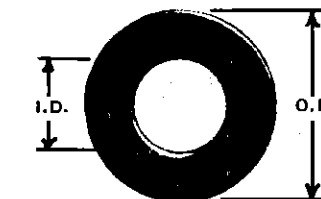
AN960 FLAT WASHERS

compliance with AN960 drawing requirements and specifications.

Identify by AN number; use AN dash number for size; and "L" if light series is required.

AN960C3L (Stainless Steel, light)

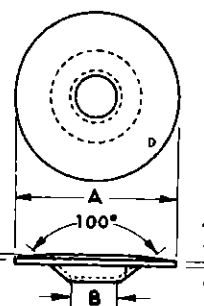
AN960 - Cadmium Plated Steel
AN960C - Stainless Steel
AN960D - Aluminum Alloy, Plain



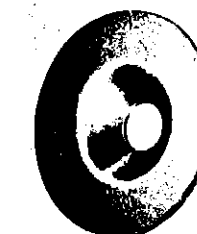
| DASH NO. AN960 | THICKNESS (inches) | PRICE each | I.D. (inch) | O.D. (inch) | SCREW OR BOLT SIZE | LIGHT SERIES WASHERS | |
|----------------|--------------------|------------|-------------|-------------|--------------------|----------------------|------------------|
| | | | | | | DASH NO. AN960 | THICKNESS (inch) |
| -2 | .032 | \$.03 | .099 | .250 | #2 | -2L | .016 |
| -3 | .032 | | .109 | .250 | #3 | -3L | .016 |
| -4 | .032 | | .125 | .312 | #4 | -4L | .016 |
| -6 | .032 | \$.03 | .149 | .375 | #6 | -6L | .016 |
| -8 | .032 | | .174 | .375 | #8 | -8L | .016 |
| 10 | .064 | \$.04 | .203 | .438 | #10 | -10L | .032 |
| 16 | .064 | | .265 | .500 | 1/4" | -416L | .032 |
| 18 | .064 | | .326 | .562 | 5/16" | -516L | .032 |
| 16 | .064 | \$.04 | .390 | .625 | 3/8" | -616L | .032 |
| 18 | .064 | | .453 | .750 | 7/16" | -716L | .032 |
| 16 | .064 | \$.05 | .515 | .875 | 1/2" | -816L | .032 |
| 18 | .064 | | .578 | 1.062 | 9/16" | -916L | .032 |
| 16 | .091 | | .640 | 1.188 | 5/8" | -1016L | .032 |

*Bulk price 5,000 pcs. per size only.

COUNTERSUNK WASHERS



For use with 100° flat-head screws to provide reinforced, low-profile attachments. Typical application is illustrated below. Speed Nut, riveted in place, receives screw seated in countersunk washer.



| PART NUMBER | RIVET OR SCREW SIZE | MATERIAL | A | B | T | PRICE each |
|---------------|---------------------|--------------|------|-----------|------|------------|
| A3236-012-24A | #6 Screw | Spring Steel | .500 | .140-.147 | .012 | \$.10 |
| A3135-017-24A | #8 Screw | Spring Steel | .562 | .171 | .017 | |
| A3235-020-24A | #10 Screw | Spring Steel | .750 | .196 | .020 | |
| A3235-028-24A | #10 Screw | Spring Steel | .750 | .196 | .028 | \$.12 |
| A3475-028-24A | 428 Screw | Spring Steel | .812 | .255-.260 | .028 | |

*No. 5 degree taper on parts indicated

TY-RAP



TY-RAP STRAP



TY-RAP TIE

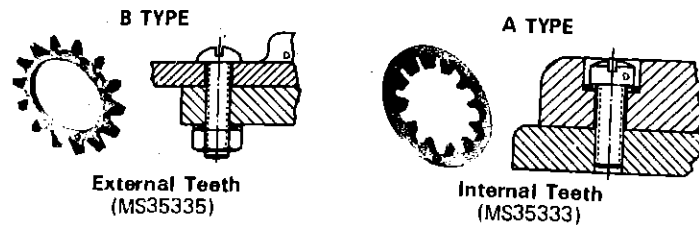
The TY-RAP performs two essential functions:
1. As a cable tie... by tying, lacing, treeing, wrapping, bundling, stitching, or harnessing groups of wires together.
2. As a cable strap... by strapping, clamping, or fastening wire harnesses to a supporting member or structure.

| | Dia. Ranges | Price |
|--------------|--------------|----------|
| TY-RAP TIE | | |
| TY-523M | 1/16 - 5/8 | 12¢/each |
| TY-524M | 1/16 - 1 3/4 | 14¢/each |
| TY-525M | | |
| TY-RAP STRAP | | |
| TY-535M | 1/16 - 1 3/4 | 20¢/each |

Less 15% in lots of 100

...the binding together of harnesses, bundles, or groups of the most secure manner and at low cost. Can be applied any even in tight quarters where it is difficult to "fish" a piece Two tiny ribs on the inside surface secure the Ty-Rap from movement. Will not vibrate loose or relax their grip.

MS35333, MS35335, AN936 LOCK WASHERS



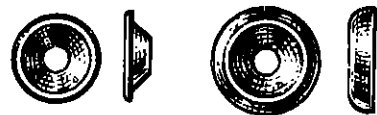
Produced from 1050 spring steel with .0002 cadmium plating and dichromate dip. MS35333 and MS35335 washers supersede AN936A and AN936B washers.

| SCREW OR BOLT SIZE | A TYPE | | B TYPE | | PRICE each |
|--------------------|---------------------|----------------|---------------------|----------------|------------|
| | MS35333 DASH NUMBER | AN936 DASH NO. | MS35335 DASH NUMBER | AN936 DASH NO. | |
| #4 | -36 | A4 | -29 | B4 | \$.02 |
| #6 | -37 | A6 | -30 | B6 | |
| #8 | -38 | A8 | -31 | B8 | |
| #10 | -39 | A10 | -32 | B10 | |
| 1/4" | -40 | A416 | -33 | B416 | \$.03 |
| 5/16" | -41 | A516 | -34 | B516 | |
| 3/8" | -42 | A616 | -35 | B616 | |
| 7/16" | -43 | A716 | -36 | B716 | |
| 1/2" | -44 | A816 | -37 | B816 | \$.04 |

ORDER: To MS35333 or MS35335 number add dash number to indicate size:

MS35333-45 (Type A, Size No. 9/16")
MS35335-42 (Type B, Size No. 1")

FINISHING WASHERS



Countersunk and Flush Type washers of nickel-plated brass.

| SCREW SIZE | COUNTERSUNK | |
|------------|-------------|--------|
| | PART NUMBER | PRICE |
| #4 | 601-4 | \$.05 |
| #6 | 601-6 | \$.09 |
| #8 | 601-8 | |
| #10 | 601-10 | \$.12 |

AN970 FLAT WASHERS

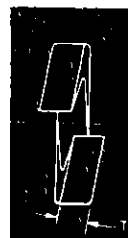
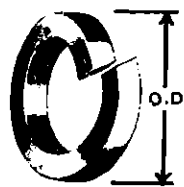


Produced of steel & cadmium plated per Specification QQ-P-416. Practical for use on wood because of large bearing area.

| AN970 DASH NUMBER | SCREW OR BOLT SIZE | INSIDE DIA. | OUTSIDE DIA. | THICKNESS (inches) | PRICE |
|-------------------|--------------------|-------------|--------------|--------------------|--------|
| -3 | NO. 10 | .1935 | 7/8 | .063 | \$.08 |
| -4 | 1/4" | 17/64 | 1-1/8 | .063 | |
| -5 | 5/16" | 21/64 | 1-3/8 | .063 | \$.15 |
| -6 | 3/8" | 25/64 | 1-5/8 | .063 | |
| -7 | 7/16" | 29/64 | 1-13/16 | .109 | \$.35 |
| -8 | 1/2" | 33/64 | 2 | .109 | |

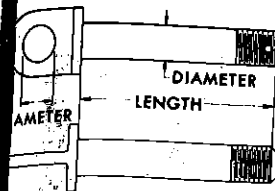
MS35338 LOCK WASHERS

MS35338 lock washers are of carbon steel per spec. QQ-S-633; cadmium plated per QQ-P-416, Type 2, Class C.



| MS35338 MEDIUM SERIES | | | | | |
|-----------------------|-------------------|--------------------|--------------|--------------------|------------|
| MS35338 DASH NUMBER | AN936 DASH NUMBER | SCREW OR BOLT SIZE | OUTSIDE DIA. | THICKNESS (inches) | price each |
| -40 | -4 | #4 | .212 | .025 | \$.02 |
| -41 | -6 | #6 | .253 | .031 | |
| -42 | -8 | #8 | .296 | .040 | |
| -43 | -10 | #10 | .337 | .047 | |
| -44 | -416 | 1/4" | .493 | .062 | |
| -45 | -516 | 5/16" | .591 | .078 | \$.03 |
| -46 | -616 | 3/8" | .688 | .094 | |
| -47 | -716 | 7/16" | .784 | .109 | |
| -48 | -816 | 1/2" | .879 | .125 | |

AN42-AN49 EYE BOLTS



| AN NUMBER | SHANK DIAMETER | THREADS PER INCH | SOLE DIAMETER |
|-----------------|----------------|------------------|---------------|
| AN42B... No. 10 | 32 | 1/4" | 1/4" |
| AN43B... 1/4" | 28 | 1/4" | 1/4" |
| AN44... 1/2" | 24 | 1/4" | 1/4" |
| AN45... 1/2" | 24 | 1/4" | 1/4" |
| AN46... 3/4" | 24 | 1/4" | 1/4" |
| AN47... 1/2" | 20 | 1/4" | 1/4" |

| SHANK LENGTHS Cadmium-plated Steel Eye Bolts | | | | | | | | | | | | | | | |
|--|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|
| AN DASH NUMBER | -4 | -5 | -6 | -7 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -20 | -21 | -22 |
| NOMINAL LENGTH (inches) | 1/2 | 3/4 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 1 1/2 | 1 3/4 | 1 1/2 | 1 3/4 | 2 | 2 1/2 | 2 1/2 |

| SHANK LENGTHS Cadmium-plated Steel Eye Bolts | | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-----|
| AN DASH NUMBER | -23 | -24 | -25 | -26 | -27 | -30 | -31 | -32 | -33 | -34 | -35 | -36 | -37 | -40 |
| NOMINAL LENGTH (inches) | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 3 | 3 1/4 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 4 |

Eye bolts are manufactured to Specification MIL-B-6812 and AN Standard drawings AN42 thru AN49. Material is non-corrosion-resistant steel, cadmium plated to specification QQ-P-416.

Example: AN44-10A has a shank diameter of 5/16"; 24 threads per inch; hole diameter 1/4"; undrilled shank length of 1". (AN44-10 is the same bolt, but having a drilled shank).

NOTE: Available with or without cotter pin hole drilled in shank.

HOW TO ORDER

Order by AN part number. Add the letter "A" after the dash number when ordering undrilled eye bolts.

AN42 - AN46 EYEBOLT PRICE/Each

| | AN42 | AN43 | AN44 | AN46 |
|----------|--------|------|--------|------|
| 4 to 6 | \$2.17 | * | \$3.00 | * |
| 7 to 11 | 2.67 | 3.00 | 3.33 | * |
| 12 to 14 | 3.17 | 3.33 | 3.92 | * |
| 15 to 17 | * | 3.83 | 4.42 | 6.33 |
| 20 to 22 | * | 4.33 | 4.83 | 7.00 |
| 23 to 25 | * | 4.75 | 5.08 | 8.00 |
| 26 to 30 | * | 4.92 | * | * |

(* Not stocked)

AN481 CLEVIS FORK ROD ENDS

1/30 Steel, furnished in plain steel finish for welding or riveted to Alum. tubing. All size fit inside of 3/8" O.D. x .035 steel tubing.

AN486 THREADED CLEVIS FORK ROD ENDS

1/30 steel and cadmium plated. Internally threaded 1/4"-28 to fit 1/4" rod.

| Size | Size Overall | | Price |
|---------|--------------|-------------------|--------|
| | Clevis Pin | Inside Width Fork | |
| AN481-1 | 1/4" | 17/64" | \$1.95 |
| AN481-2 | 1/4" | 9/64" | 1.95 |
| AN481-3 | 3/16" | 17/64" | 1.95 |
| AN481-4 | 3/16" | 9/64" | 1.95 |
| * | 3/16" | 5/32" | 1.95 |
| AN486-1 | 1/4" | 17/64" | 1.95 |
| AN486-2 | 1/4" | 9/64" | 1.95 |
| AN486-3 | 3/16" | 17/64" | 1.95 |
| AN486-4 | 3/16" | 9/64" | 1.95 |

* This will fit inside of 3/8" I.D. tubing.

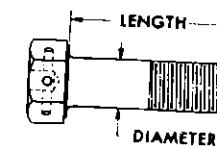
SPECIAL CLEVIS FORK

for throttle control
1032 x 3/16 \$1.50

SPECIAL EYEBOLTS - 5/16" dia. bolt hole, 3/8" male threads - used to attach "I" struts to the bottom wing, rear spar, of the SA300. We had these eyebolts especially made for us, to certified A/C standards. Each bolt has been roll formed, heat treated, cadmium plated, and magnafluxed. Price \$7.50/each

SPECIAL CABANE FORK - 1/4" dia. bolt hole, 5/16" male threads. Custom made to A/C standards as above. For Cabane. Price \$5.00/each

PROP BOLTS



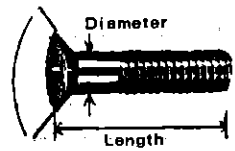
DRILLED HEAD
6 HOLES



DRILLED
PILOT HOLE

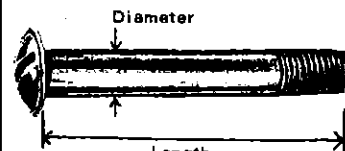
| Price Each | |
|------------|--------|
| AN76-30 | \$2.64 |
| AN76-33 | 2.95 |
| AN76-34 | 2.95 |
| AN76-35 | 3.20 |
| AN76-36 | 3.45 |
| AN76-37 | 3.70 |
| AN76-40 | 3.85 |
| AN76-41 | 4.05 |
| AN76-42 | 4.25 |
| AN76-47 | 4.95 |
| AN76-50 | 4.95 |
| AN76-54 | 5.75 |
| AN77-42 | 4.96 |
| AN78-45 | 5.74 |
| AN78-46 | 6.51 |

Aviation Machine Screws



AN509R
100 DEGREE FLAT HEAD
Phillips Recessed
Carbon Steel
Cadmium Plated
100± 1"

| FIRST DASH NUMBER | -8- | -10- | -416- |
|--------------------|---------|----------------|-------|
| THREAD | 8-32 | 10-32 | ¼-28 |
| SECOND DASH NUMBER | LENGTH | PRICE PER each | |
| -R5 | 11/32" | 10¢ | 10¢ |
| -R6 | 13/32" | | |
| -R7 | 15/32" | | |
| -R8 | 17/32" | | |
| -R9 | 19/32" | 10¢ | 12¢ |
| -R10 | 21/32" | | |
| -R11 | 23/32" | | |
| -R12 | 25/32" | | |
| -R13 | 27/32" | 15¢ | 15¢ |
| -R14 | 29/32" | | |
| -R15 | 31/32" | | |
| -R16 | 1-1/32" | | |
| -R17 | 1-3/32" | 15¢ | 20¢ |
| -R18 | 1-5/32" | | |
| -R19 | 1-7/32" | | |
| -R20 | 1-9/32" | | |



AN525 Slotted & AN525R—Phillips Recessed WASHER HEAD
Carbon Steel
Cadmium Plated
Only Slotted Shown

| FIRST DASH NUMBER | -832- | -10- |
|--------------------|---------------|--------|
| THREAD | 8-32 | 10-32 |
| SECOND DASH NUMBER | RECESSED HEAD | LENGTH |
| -R6 | 3/8" | 8¢ |
| -R7 | 7/16" | |
| -R8 | 1/2" | |
| -R10 | 5/8" | 8¢ |
| -R12 | 3/4" | |
| -R14 | 7/8" | |
| -R16 | 1 | 10¢ |
| -R18 | 1-1/8" | |
| -R20 | 1-1/4" | |

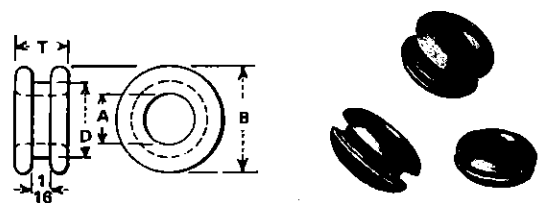
*Not available in Slotted Head.

AN507B - AN515B - AN520B
BRASS INSTRUMENT SCREWS
All Recessed Head Type



| PART NUMBER | HEAD TYPE | THREAD SIZE | LENGTH | price |
|----------------|-----------|-------------|--------|-------|
| AN507B-632-R12 | Flat | 6-32 | 3/4" | 15¢ |
| AN507B-632-R16 | | | 1" | |
| AN515B-6-R8 | Round | 6-32 | 1/2" | |
| AN515B-6-R12 | | | 3/4" | |
| AN515B-6-R16 | | | 1" | |
| AN515B-6-R20 | | | 1-1/4" | |
| AN520B-10-R16 | Round | 10-32 | 1" | |

MS35489 GROMMETS (AN931)

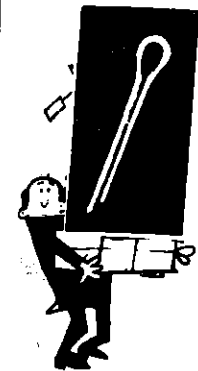


These Rubber Grommets are used for the protection of copper tubing, electric cables and engine controls where they pass through firewalls and bulkheads. Grommets conform to AN Specs. Black synthetic rubber to Spec. MIL-G-3036. Order example: MS-35489-16.

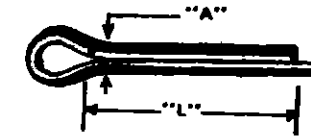
MS35489 and AN931 grommets are interchangeable.

Chart lists only grommets with groove width of 1/16". Groove width of 1/8" and 1/4", available on special order. Prices on Application

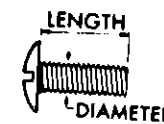
| AN931 DASH NO. | MS35489 DASH NO. | DIMENSIONS (Inches) | | | | price | |
|----------------|------------------|---------------------|---------|--------|------|-------|-----|
| | | A | B | D | T | | |
| -2-9 | -2 | 1/8 | 3/4 | 9/16 | 3/16 | 15¢ | |
| -2-16 | -3 | 1/8 | 1-1/4 | 1 | 1/4 | | |
| -3-9 | -134 | 3/16 | 3/4 | 9/16 | 3/16 | | |
| -3-5 | -4 | 3/16 | 7/8 | 5/16 | 3/16 | | |
| -3-10 | -5 | 3/16 | 7/8 | 5/8 | 3/16 | | |
| -4-7 | -6 | 1/4 | 5/8 | 7/16 | 3/16 | | |
| -4-12 | -7 | 1/4 | 1 | 3/4 | 1/4 | | 23 |
| -4-16 | -8 | 1/4 | 1-1/4 | 1 | 1/4 | | |
| -5-9 | -9 | 5/16 | 13/16 | 9/16 | 5/16 | | 20¢ |
| -5-12 | -10 | 5/16 | 1 | 3/4 | 5/16 | | |
| -5-13 | -118 | 5/16 | 1-1/16 | 13/16 | 5/16 | | |
| -6-10 | -11 | 3/8 | 7/8 | 5/8 | 5/16 | | |
| -6-16 | -12 | 3/8 | 1-1/4 | 1 | 1/4 | | |
| -7-11 | -13 | 7/16 | 15/16 | 11/16 | 5/16 | | |
| -8-13 | -14 | 1/2 | 1-1/16 | 13/16 | 5/16 | 23 | |
| -8-20 | -15 | 1/2 | 1-1/2 | 1-1/4 | 1/4 | | |
| -9-13 | -16 | 9/16 | 1-1/16 | 13/16 | 5/16 | 32 | |
| -10-14 | -17 | 5/8 | 1-1/8 | 7/8 | 5/16 | | |
| -10-20 | -18 | 5/8 | 1-1/2 | 1-1/4 | 1/4 | | |
| -11-16 | -19 | 11/16 | 1-5/16 | 1 | 3/8 | | |
| -12-20 | -135 | 3/4 | 1-5/8 | 1-1/4 | 1/4 | | |
| -12-17 | -20 | 3/4 | 1-3/8 | 1-1/16 | 3/8 | | 28 |
| -12-23 | -21 | 3/4 | 1-13/16 | 1-7/16 | 3/8 | | |
| -12-26 | -120 | 3/4 | 2 | 1-5/8 | 3/8 | | |
| -14-20 | -22 | 7/8 | 1-5/8 | 1-1/4 | 7/16 | | |



COTTER PINS MS-24665



| "A" DIAMETER & LENGTH | MS24665 DASH NO. | FORMERLY AN380 | PRICE EACH |
|-----------------------|------------------|----------------|------------|
| 1/32 x 3/8 | -3 | -1-1 | 3¢ |
| 1/32 x 1/2 | -5 | -1-2 | |
| 1/32 x 3/4 | -7 | -1-3 | |
| 1/32 x 1 | -9 | -1-4 | |
| 1/16 x 5/16 | | | |
| 1/16 x 3/8 | -130 | -2-1 | |
| 1/16 x 7/16 | | | |
| 1/16 x 1/2 | -132 | -2-2 | |
| 1/16 x 5/8 | | | |
| 1/16 x 3/4 | -134 | -2-3 | |
| 1/16 x 7/8 | | | 3¢ |
| 1/16 x 1 | -136 | -2-4 | |
| 1/16 x 1-1/4 | -138 | -2-5 | |
| 1/16 x 1-1/2 | -140 | -2-6 | |
| 1/16 x 1-3/4 | -142 | -2-7 | |
| 1/16 x 2 | -143 | -2-8 | |
| 1/16 x 2-1/2 | -144 | | |
| 1/16 x 3 | -145 | | |
| 3/64 x 1/2 | | | |
| 3/64 x 5/8 | | | |
| 3/64 x 3/4 | | | 4¢ |
| 3/64 x 1 | | | |
| 1/32 x 1/2 | -281 | -3-2 | |
| 1/32 x 5/8 | | | |
| 1/32 x 3/4 | -283 | -3-3 | |
| 1/32 x 7/8 | | | |
| 1/32 x 1 | -285 | -3-4 | |
| 1/32 x 1-1/8 | | | |
| 1/32 x 1-1/4 | -287 | -3-5 | |
| 1/32 x 1-1/2 | -289 | -3-6 | |
| 1/32 x 1-3/4 | -291 | -3-7 | |
| 1/32 x 2 | -292 | -3-8 | |
| 1/32 x 2-1/2 | -294 | | 4¢ |
| 1/32 x 3 | -295 | | |
| 3/8 x 1/2 | -349 | -4-2 | |
| 3/8 x 3/4 | -351 | -4-3 | |
| 3/8 x 1 | -353 | -4-4 | |
| 3/8 x 1-1/8 | | | |
| 3/8 x 1-1/4 | -355 | -4-5 | |
| 3/8 x 1-1/2 | -357 | -4-6 | |
| 3/8 x 1-3/4 | -359 | -4-7 | |
| 3/8 x 2 | -360 | -4-8 | |
| 3/8 x 2-1/4 | | | 5¢ |
| 3/8 x 2-1/2 | -362 | -4-10 | |
| 1/32 x 1 | -419 | -5-4 | |
| 1/32 x 1-1/2 | -423 | -5-6 | |
| 1/32 x 2-1/2 | -428 | -5-8 | |



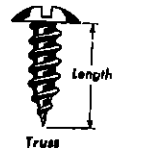
AN526 MACHINE SCREWS
Button head screws are made of Carbon Steel, Cadmium plated. 55,000 PSI tensile strength. R 2nd dash No. for Phillips recessed head.

| 2nd Dash No. | Length Ins. | Price each | | |
|--------------|-------------|------------|-----|------|
| | | 632 | 832 | 1032 |
| -6 | 3/8 | .06 | .06 | .06 |
| -8 | 1/2 | | | |
| -10 | 5/8 | | | |
| -12 | 3/4 | | | |
| -14 | 7/8 | | | |
| -16 | 1 | | | |
| -20 | 1-1/4 | | | |
| -24 | 1-1/2 | | | |
| -32 | 2 | | | |
| | | | | |

TAPPING SCREWS



• PHILLIPS RECESSED HEADS



• HOW THE LENGTH IS MEASURED



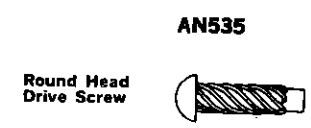
HEAD STYLES • SLOTTED HEADS

HOW TO ORDER
1. Specify diameter, length, head style, shank type, and slotted or recessed. Example: 4 x 1/4 Truss, Type A, Slotted.
2. Use AN numbers when they apply. Example: AN530-6-8 (6 x 1/2 Round, Type B, Slotted).

PHILLIPS OR SLOTTED HEAD
TYPE A OR TYPE B SHANKS

| Size | #4 | #6 | #8 | #10 |
|--------|------------|----|----|-----|
| Length | price each | | | |
| 1/4" | 6¢ | 7¢ | 7¢ | 8¢ |
| 5/16" | | | | |
| 3/8" | | | | |
| 1/2" | | | | |
| 5/8" | | | | |
| 3/4" | | | | |
| 1" | | | | |

25% off of lots of 100



AN535
AN535-4-4 4¢ each
-2-2 5¢

601 HOSE (Used with: #816 Fittings)



Application:

Aircraft power plant and airframe fuel and oil lines. Aeroquip 601 Hose is widely used in jet engines where flexibility, light weight and ability to withstand high operating temperatures with maximum fire resistance are prime considerations. Hose may be used in submerged applications.

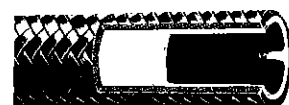
Hydraulic installation must have Aeroquip approval.

Construction:

Inner tube . . . seamless, specially-formulated synthetic compound. Reinforcement and cover . . . stainless steel wire braid consisting of partial inner braid and full coverage outer braid. Continuous operation, -40° to +300° F. May be used with temperature range of -65° to +375° F. on approval of installation by Aeroquip.

| Dash Size | O.D. Tube Size | I.D. | Max. Oper. PSI | Price Per Foot |
|-----------|----------------|-------|----------------|----------------|
| -4 | 1/4 | 7/32 | 1000 | \$5.36 |
| -6 | 3/8 | 11/32 | 1000 | 5.83 |
| -8 | 1/2 | 7/16 | 1000 | 7.09 |
| -10 | 5/8 | 9/16 | 1000 | 8.10 |
| -11 | 11/16 | 5/8 | 1000 | 8.46 |
| -12 | 3/4 | 11/16 | 1000 | 8.64 |

600 EXTRUDED TEFLON HOSE



CONSTRUCTION: Extruded Teflon (Dupont)liner is not affected by fuels or hydraulic fluids. It offers high temperature resistance and very low volumetric expansion. Full coverage stainless steel outer braid gives excellent abrasion protection and prevents hose from expanding under high pressure.

APPLICATION: Medium pressure hydraulic systems. Flexible brake lines. Also used for instrument lines where extreme protection is necessary.

CONTINUOUS OPERATING TEMPERATURE RANGE:

-65° F to +450° F.

| Dash Size | Hose Size I.D. | Hose Size O.D. | Fluid Oper. psi | Proof Press. psi | Price Per Foot |
|-----------|----------------|----------------|-----------------|------------------|----------------|
| 600-3 | .125 | .25 | 1500 | 3000 | \$4.05 |

6001 HOSE ENDS - STAINLESS STEEL



6001 fitting to be used with 600 hose.

6001-3 \$6.50

FIRE SLEEVING



AE102 FIRE SLEEVE

Provides increased service life in high ambient temperature applications.

Construction:

Uniform single layer of braided asbestos tubing impregnated and overlaid with a flame resistant silicone rubber. Asbestos yarn used in the braid is closely spun to provide maximum protection against fluid wicking. Silicone rubber (used in impregnating and for the outer cover) will not soften, peel, blister or harden. Has a continuous operating temperature of -65°F. to +500°F. ambient and is resistant to MIL-H-5606, distilled water, MIL-L-7808, MIL-L-6082 and Skydrol 500.

Identification:

Outer surface is red in color with a single black layline consisting of Aeroquip AE102-Size-Code every 10 inches.

| | | |
|---------|-------|-----------|
| AE102-8 | ----- | \$3.33/ft |
| AE102-9 | ----- | 3.49/ft |

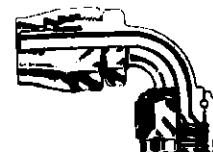
Straight Flared Swivel 816 Hose Fitting

(Used with 601 and AE701 Hose) Nut and nipple, sizes 3, 4 and 5, cadmium-plated steel. Nut and nipple, sizes 6 and up and sockets in all sizes, anodized aluminum. All materials and finishes conform to applicable specifications.



| Dash Size | Tube Size | 816 price each | Component parts | |
|-----------|-----------|----------------|-----------------|--------------|
| | | | Socket | Nipple Assy. |
| -3 | 3/16 | \$4.25 | 516-3D | 526-3 |
| -4 | 1/4 | 4.50 | -4D | -4 |
| -6D | 3/8 | 4.95 | -6D | -6D |
| -8D | 1/2 | 6.17 | -8D | -8D |
| -10D | 5/8 | 9.50 | -10D | -10D |

8891 90° Flared Swivel Hose Fitting



| Fitting Assy. Part No. | Tube Size | Price each |
|------------------------|-----------|------------|
| 8891-6D | 3/8" | \$13.60 |
| 8891-8D | 1/2" | 14.00 |

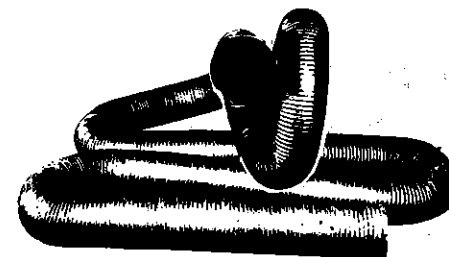
(Surplus)

AERO DUCT

Flexible

EASY-TO-INSTALL

Wire-Supported Duct



"Aero Duct" types

(meet applicable FAA and military specifications).

NEOPRENE impregnation

(Stocked in 10 foot lengths)

CAT—1 ply neo. impreg. fiberglass with very closely spaced spiral copper-coated high carbon steel wire inside, exterior wrapped fiberglass cord. From -68°F to over 300°F. Aircraft type.

SILICONE impregnation

(Stocked in 11 foot lengths)

SCAT—1 ply same as CAT except with silicone rubber impregnation. From -80°F to over 450°F. Aircraft and industrial type.

NOTE—"WIRE SPACING" is the distance from the end of the wire to the end of the wire in the next full revolution.



| DASH NUMBER | INSIDE DIAMETER (INCHES) | STANDARD WIRE SPACING (INCHES) |
|-------------|--------------------------|--------------------------------|
| 3 | 3.4 | 1.4 |
| 3A | 7.8 | 1.4 |
| 4 | 1 | 1.4 |
| 5 | 1.14 | 1.4 |
| 6 | 1.12 | 5.16 |
| 7 | 1.34 | 5.16 |
| 8 | 2 | 5.16 |
| 9 | 2.14 | 5.16 |
| 10 | 2.12 | 5.16 |
| 11 | 2.34 | 5.16 |
| 12 | 3 | 5.16 |
| 13 | 3.14 | 5.16 |

Price Per Foot

| Dash | Price Per Foot | |
|------|--------------------|-------------------|
| | Neoprene Black CAT | Silicone Red SCAT |
| -4 | \$2.18 | \$2.88 |
| -5 | 2.27 | 3.22 |
| -6 | 2.31 | 3.48 |
| -7 | 2.42 | 3.76 |
| -8 | 2.46 | 4.03 |
| -9 | 2.58 | 4.53 |
| -10 | 2.93 | 4.87 |
| -11 | 3.25 | 5.31 |
| -12 | 3.46 | 5.61 |
| -13 | 3.86 | 6.10 |



MIL-H-6000 FUEL AND OIL HOSE
Constructed of a seamless tube of synthetic rubber reinforced with two layers of braided cotton yarn and protected by an ozone and mildew resisting material. Used in fuel, oil, coolant, water and alcohol lines in aircraft engine installations. Standard hose length is 10 ft. Available in inside diameters ranging from 1/4" to 2 1/2".

| I.D. | O.D. | MIN. BURST PRESSURE | Price /ft |
|-------|--------|---------------------|-----------|
| 1/4" | 5/8" | 1000 | \$2.32 |
| 5/16" | 11/16" | 1000 | \$2.48 |
| 3/8" | 3/4" | 1000 | \$2.58 |
| 1/2" | 7/8" | 1000 | \$2.92 |
| 5/8" | 1" | 1000 | \$3.37 |
| 3/4" | 1 1/8" | 1000 | \$3.66 |
| 7/8" | 1 1/4" | 1000 | \$4.06 |
| 1" | 1 3/8" | 1000 | \$4.46 |



306 HOSE (Used with: No. 471 Fittings)

Construction:

Inner tube: seamless synthetic rubber compound. Reinforcement: single cotton braid. Outer cover: synthetic rubber cover.

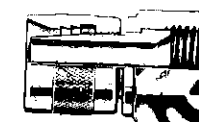
Operating Temperatures: -65° to +160° F.

Application: Air or vacuum instrument systems, automatic pilots and lines to pressure gages used with these systems as specified in MS33620. Hose assemblies conform to AN6270. Hose conforms to MIL-H-5593. Fittings conform to MIL-A-38726 and MS27404*

| Dash Size | O.D. Tube Size | Hose Size I.I | Hose Size O.D. | Max. Oper. psi | Price Per Foot |
|-----------|----------------|---------------|----------------|----------------|----------------|
| -2 | 1/8 | 1/8 | 3/8 | 300 | \$2.04 |
| -4 | 1/4 | 1/4 | 1/2 | 200 | 1.63 |
| -6 | 3/8 | 3/8 | 5/8 | 150 | 2.19 |
| -8 | 1/2 | 1/2 | 25/32 | 150 | 2.75 |
| -10 | 5/8 | 5/8 | 29/32 | 150 | 3.03 |

471 HOSE FITTING (AN773)

(Used with #306 hose)



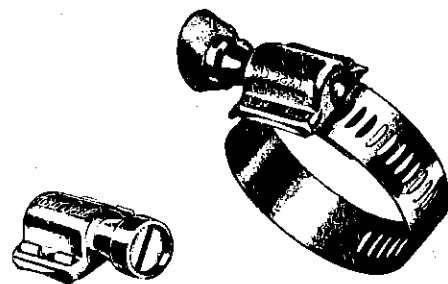
Nut, nipple and socket are anodized aluminum. All materials and finishes conform to applicable specifications.

| Dash Size | Tube Size | Price each | Socket | Nipple | Nut |
|-----------|-----------|------------|--------|--------|--------|
| -2D | 1/8" | \$6.03 | 213-2D | 231-2D | 290-2D |

"Aero-Seal" HOSE CLAMPS

OS 100—For the great majority of applications "Aero-Seal" clamp type OS 100 will be found fully satisfactory. The band and saddle are 302-18-8 stainless steel. The screw assembly is carbon steel, heat treated with a highly corrosion resistant finish.

OS 200—For maximum corrosion resistance and extra strength we recommend "Aero-Seal" stainless steel hose clamp type OS 200. All parts are made of 302-18-8 stainless steel except the worm screw is 431 stainless steel, for applications where extreme corrosion conditions may be encountered.



SCREWDRIVER SLOT ALSO AVAILABLE
Thumb grip type carried in stock. Screwdriver slot type available on special order. Screwdriver version has cup surrounding the slotted head so the screwdriver can be engaged easily in dark or difficult locations and will not slip out causing damage.

PART NO. EXAMPLES:—
QS100-M48S (stainless band; carbon steel, screwdriver slot screw)
QS100-M48W (stainless band; carbon steel, thumb grip screw)
QS200-M48S (all stainless; screwdriver slot screw)
QS200-M48W (all stainless; thumb grip screw)

| EFFECTIVE RANGE OF CLAMP DIAMETER | | SIZE NUMBER | PRICE EACH |
|-----------------------------------|---------|-------------|------------|
| MINIMUM | MAXIMUM | | |
| 7/16" | 25/32" | -M6W | QS200 |
| 1/2" | 29/32" | -M8W | |
| 9/16" | 1-1/16" | -M10W | |
| 11/16" | 1-1/4" | -M12W | |
| 13/16" | 1-1/2" | -M16W | |
| 13/16" | 1-3/4" | -M20W | |
| 1-1/16" | 2" | -M24W | |
| 1-5/16" | 2-1/4" | -M28W | |
| 1-9/16" | 2-1/2" | -M32W | |
| 1-13/16" | 2-3/4" | -M36W | |
| 2-1/16" | 3" | -M40W | |
| 2-5/16" | 3-1/4" | -M44W | |
| 2-9/16" | 3-1/2" | -M48W | |
| 2-13/16" | 3-3/4" | -M52W | |
| 3-1/16" | 4" | -M56W | |
| 3-5/16" | 4-1/4" | -M60W | |
| 3-9/16" | 4-1/2" | -M64W | |

COWLING LOCK CLIPS

Made of spring steel and cadmium plated. Easily inserted and removed from cowling studs without the use of tools. In two diameters.

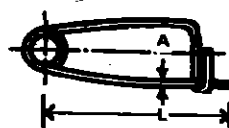


| DIAM. OF WIRE "A" | LENGTH "L" | each |
|-------------------|------------|------|
| .062 | 1-1/2" | 12¢ |
| .080 | 1-5/8" | |

Rev. 8/69

COWLING SAFETY PINS

Made of spring steel and cadmium plated. Easily inserted and removed from cowling studs without the use of tools. In two diameters and lengths.



| DIAM. OF WIRE "A" | LENGTH "L" | each |
|-------------------|------------|------|
| .048 | 7/8" | 15¢ |
| .062 | 1-1/8" | |

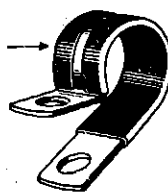
MS21919 (AN-742) CUSHIONED CLAMPS

Loop-type, cushioned, line support clamps, made of aluminum alloy. To Specification MIL-C-8603. Cushion non-fuel-resistant.

Order MS21919 part number, adding dash number to specify type and size. Examp: MS21919 DG-10.

For use with tube

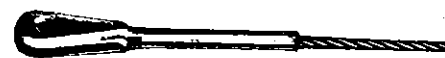
| For use with tube O.D. | Aluminum Alloy | |
|------------------------|----------------|------------|
| | Dash Number | Price each |
| 1/8" | DG2 | \$.22 |
| 3/16 | DG3 | .15 |
| 1/4 | DG4 | .15 |
| 5/16 | DG5 | .16 |
| 3/8 | DG6 | .20 |
| 7/16 | DG7 | .20 |
| 1/2 | DG8 | .22 |
| 9/16 | DG9 | .30 |
| 5/8 | DG10 | .22 |
| 11/16 | DG11 | .25 |
| 3/4 | DG12 | .25 |
| 13/16 | DG13 | .26 |
| 7/8 | DG14 | .28 |
| 15/16 | DG15 | .28 |
| 1" | DG16 | .30 |
| 1-1/16 | DG17 | .34 |
| 1-1/8 | DG18 | .34 |
| 1-3/16 | DG19 | .45 |
| 1-1/4 | DG20 | .36 |
| 1-5/16 | DG21 | .40 |
| 1-3/8 | DG22 | .37 |
| 1-7/16 | DG23 | .40 |
| 1-1/2 | DG24 | .38 |
| 1-9/16 | DG25 | .40 |
| 1-5/8 | DG26 | .50 |
| 1-11/16 | DG27 | .50 |
| 1-3/4 | DG28 | .50 |
| 1-13/16 | DG29 | .50 |
| 1-7/8 | DG30 | .97 |
| 1-15/16 | DG31 | .97 |
| 2 | DG32 | .90 |
| 2-3/8 | DG38 | .90 |
| 3-5/8 | DG58 | 1.50 |



AIRCRAFT CABLE TERMINALS

The swaging terminals listed below provide the best means of attaching fittings to cable. These AN terminals are manufactured of corrosion-resisting stainless steel (Fed. St'd. -66) to Specification MIL-T-781. Polished finish.

AN667 FORK END (MS20667)



| DASH NUMBER | CABLE DIAMETER INCH | PIN HOLE DIAMETER INCH | MINIMUM BREAKING STRENGTH | PRICE EACH |
|-------------|---------------------|------------------------|---------------------------|------------|
| -2 | 1/16 | .188 | 480 | \$2.95 |
| -3 | 3/32 | .188 | 920 | 3.50 |
| -4 | 1/8 | .188 | 2000 | 3.80 |
| -5 | 5/32 | .250 | 2800 | 4.40 |
| -6 | 3/16 | .313 | 4200 | 5.50 |

AN668 EYE END (MS20668)



| DASH NUMBER | CABLE DIAMETER INCH | PIN HOLE DIAMETER INCH | MINIMUM BREAKING STRENGTH | PRICE EACH |
|-------------|---------------------|------------------------|---------------------------|------------|
| -2 | 1/16 | .188 | 480 | \$1.60 |
| -3 | 3/32 | .188 | 920 | 1.70 |
| -4 | 1/8 | .188 | 2000 | 1.80 |
| -5 | 5/32 | .250 | 2800 | 2.50 |
| -6 | 3/16 | .313 | 4200 | 3.45 |

PLAIN BALL SA-110



| Dash Number | Cable Dia. (inches) | Minimum Breaking Strength | Hole Size (Inches) | Price ea. |
|-------------|---------------------|---------------------------|--------------------|-----------|
| -2 | 1/16 | 385 | .072 | \$.19 |
| -3 | 3/32 | 735 | .1040 | .27 |

AN664C BALL AND SHANK (MS20664)



| DASH NUMBER | CABLE DIAMETER INCH | MINIMUM BREAKING STRENGTH | HOLE SIZE INCH | PRICE EACH |
|-------------|---------------------|---------------------------|----------------|------------|
| -2 | 1/16 | 480 | .073 | \$.20 |
| -3 | 3/32 | 920 | .104 | .30 |
| -4 | 1/8 | 2000 | .139 | .35 |
| -5 | 5/32 | 2800 | .169 | .50 |
| -6 | 3/16 | 4200 | .201 | .75 |

SWAGEABLE TERMINALS

HOW TO ORDER EXAMPLE:

Designate terminal desired by AN number and add dash number for size which applies to cable diameter being used.

AN663C BALL AND DOUBLE SHANK (MS20663)



| DASH NUMBER | CABLE DIAMETER INCH | MINIMUM BREAKING STRENGTH | HOLE SIZE INCH | PRICE EACH |
|-------------|---------------------|---------------------------|----------------|------------|
| -2 | 1/16 | 480 | .073 | \$.32 |
| -3 | 3/32 | 920 | .104 | .40 |
| -4 | 1/8 | 2000 | .139 | .55 |
| -5 | 5/32 | 2800 | .169 | 1.10 |
| -6 | 3/16 | 4200 | .201 | 1.50 |

AN669 TURNBUCKLE END (MS21260)



| AN669 TURNBUCKLE END - LONG | | | | | |
|-----------------------------|-----------------|---------------------|---------------------------|------------|--------|
| DASH NUMBER | SIZE AND THREAD | CABLE DIAMETER INCH | MINIMUM BREAKING STRENGTH | PRICE EACH | |
| -L2RH | -L2LH | 6-40 | 1/16 | 480 | \$2.20 |
| -L3RH | -L3LH | 10-32 | 3/32 | 920 | 1.98 |
| -L4RH | -L4LH | 1/4-28 | 1/8 | 2000 | 2.20 |
| -L5RH | -L5LH | 1/4-28 | 5/32 | 2800 | 2.30 |
| -L6RH | -L6LH | 5/16-24 | 3/16 | 4200 | 2.50 |

| AN669 TURNBUCKLE END - SHORT | | | | | |
|------------------------------|-----------------|---------------------|---------------------------|------------|---------|
| DASH NUMBER | SIZE AND THREAD | CABLE DIAMETER INCH | MINIMUM BREAKING STRENGTH | PRICE EACH | |
| -S2RH | -S2LH | 6-40 | 1/16 | 480 | \$ 2.20 |
| -S3RH | -S3LH | 10-32 | 3/32 | 920 | 1.98 |
| -S4RH | -S4LH | 1/4-28 | 1/8 | 2000 | 2.20 |
| -S5RH | -S5LH | 1/4-28 | 5/32 | 2800 | 2.30 |
| -S6RH | -S6LH | 5/16-24 | 3/16 | 4200 | 2.50 |

AN666 STUD END (MS21259)



| DASH NUMBER | SIZE AND THREAD | CABLE DIAMETER INCH | MINIMUM BREAKING STRENGTH | PRICE EACH | |
|-------------|-----------------|---------------------|---------------------------|------------|--------|
| -2RH | -2LH | 6-40 | 1/16 | 480 | \$1.02 |
| -3RH | -3LH | 10-32 | 3/32 | 920 | 1.15 |
| -4RH | -4LH | 1/4-28 | 1/8 | 2000 | 1.95 |
| -5RH | -5LH | 1/4-28 | 5/32 | 2800 | 2.10 |
| -6RH | -6LH | 5/16-24 | 3/16 | 4200 | |

CABLE

7x7 FLEXIBLE PREFORMED



7 X 7 (FLEXIBLE) CABLE HAS SEVEN STRANDS OF SEVEN WIRES EACH. ITS GREATER NUMBER OF WIRES WHICH ARE SMALLER IN SIZE MAKE IT NOT AS FLEXIBLE AS 7 X 19. IT HAS THE LEAST METALLIC AREA AND THEREFORE IS NOT AS STRONG AS 7 X 19.

7 X 7 CONSTRUCTION IS USED A GREAT DEAL FOR CONTROL PURPOSES WHERE EXTREME FLEXIBILITY IS NOT REQUIRED, BUT WHERE ABRASION IS A FACTOR.

MADE IN CONFORMANCE WITH THE LATEST MILITARY SPECIFICATION WHERE APPLICABLE:

MIL - W - 1511A PREFORMED GALVANIZED OR TINNED AIRCRAFT CABLE.

MIL - C - 5424A PREFORMED STAINLESS STEEL AIRCRAFT CABLE.

7x19 EXTRA FLEXIBLE PREFORMED



7 X 19 (EXTRA FLEXIBLE) CABLE HAS SEVEN STRANDS OF NINETEEN WIRES EACH. IT IS STRONGER THAN THE 7 X 7 CONSTRUCTION AND MORE FLEXIBLE.

BECAUSE OF ITS FINE WIRES, THE BEST SERVICE IS OBTAINED WITH 7 X 19 WHERE ABRASION IS NOT TOO SEVERE. THESE SAME FINE WIRES, HOWEVER, MAKE IT THE MOST FLEXIBLE TO MEET SEVERE BENDING.

7 X 19 CONSTRUCTION IS USED EXTENSIVELY FOR THE OPERATION OF ALL TYPES OF CONTROLS IN AIRCRAFT, AND BECAUSE OF ITS EXTREME FLEXIBILITY IT IS ADAPTIBLE TO ANY INSTALLATION.

MADE TO CONFORM WITH LATEST MILITARY SPECIFICATIONS:

MIL - W - 1511A PREFORMED GALVANIZED OR TINNED AIRCRAFT CABLE.

MIL - C - 5424A PREFORMED STAINLESS STEEL AIRCRAFT CABLE.

| Diameter in inches | Galvanized | | Stainless Steel | |
|--------------------|------------|--------|-----------------|--------|
| | 7 x 7 | 7 x 19 | 7 x 7 | 7 x 19 |
| 1/16 | 480 | | 480 | |
| 3/32 | 920 | | 920 | |
| 1/8 | 1700 | 2000 | 1700 | 1760 |
| 5/32 | 2600 | 3000 | 2600 | 2660 |
| 3/16 | 3700 | 4200 | 3700 | 3700 |

| Dia. in inch | Cable Price Per Foot | | | |
|--------------|----------------------|--------|-----------|--------|
| | Galvanized | | Stainless | |
| | 7 x 7 | 7 x 19 | 7 x 7 | 7 x 19 |
| 1/16 | .11 | | .20 | |
| 3/32 | * | .20 | * | .65 |
| 1/8 | * | .22 | * | .70 |
| 5/32 | * | .24 | * | .73 |
| 3/16 | * | .29 | * | .81 |

CABLE SHACKLES AN115

AN115

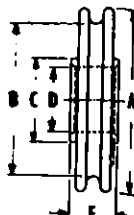


| DASH # | PRICE EACH | USED WITH THIMBLE | CLEVIS PIN |
|--------|------------|-------------------|------------|
| -16 | \$1.45 | AN100-4 | AN393-11 |
| -21 | 1.96 | AN100-4 | AN393-11 |
| -32 | \$2.35 | AN100-5 | AN394-15 |

PULLEYS

Machined from fabric-reinforce, high impact phenolic sheets. Bearing ring bonds bearing to pulley.

AN210A pulleys have metal shielded bearings rather than removable composition seal type bearings.



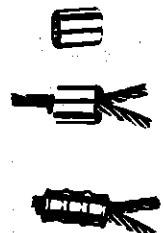
| Part No. | Cable Size | A Dia. | B Dia. | D Dia. | E Dia. | Allowable Load Lp |
|----------|------------|--------|--------|--------|--------|-------------------|
| AN210-1A | 1/16, 3/32 | 1.250 | .972 | .1900 | .297 | 185 |
| AN210-2A | 1/16, 3/32 | 2.500 | 2.222 | .1900 | .297 | 500 |
| AN210-3A | 1/8, 3/16 | 2.000 | 1.510 | .2500 | .484 | 450 |
| AN210-4A | 1/8, 3/16 | 3.500 | 3.010 | .2500 | .484 | 1200 |
| LS806 | 5/32, 3/16 | 2.500 | 2.000 | .2500 | .565 | |

| Part No. | Cable Size | A Dia. | B Dia. | C Dia. | E Dia. | Allowable Load Lp |
|----------|------------|--------|--------|--------|--------|-------------------|
| AN220-1 | 1/8 | 1.755 | 1.255 | .465 | .625 | 500 |
| AN220-2 | 5/32, 3/16 | 3.005 | 2.505 | .515 | .625 | 1680 |
| AN220-3 | 5/32, 3/16 | 4.255 | 3.755 | .515 | .625 | 2500 |
| AN220-4 | 5/32, 3/16 | 5.505 | 5.005 | .515 | .625 | 2500 |

| Part No. | Price | Part No. | Price |
|----------|--------|----------|-------|
| AN210-1A | \$3.80 | AN220-1 | 5.58 |
| AN210-2A | 3.50 | AN220-2 | 8.95 |
| AN210-3A | 3.25 | AN220-3 | 10.49 |
| AN210-4A | 7.70 | AN220-4 | 14.70 |
| LS806 | 3.50 | | |

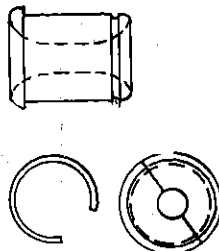
NICOPRESS

| CABLE SIZE | PRICE EACH |
|------------|------------|
| 1/16 | .15 |
| 3/32 | .15 |
| 1/8 | .20 |
| 5/32 | .30 |
| 3/16 | .57 |



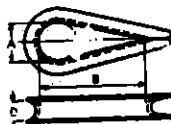
PIPER CABLE FAIRLEADS

Two plastic halves plus locking ring. 3/4" OD x 3/4" long or 3/4" OD x 1" long. Please specify.



\$1.35

THIMBLES AN100

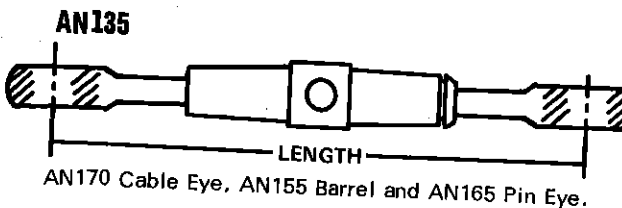


THIMBLES

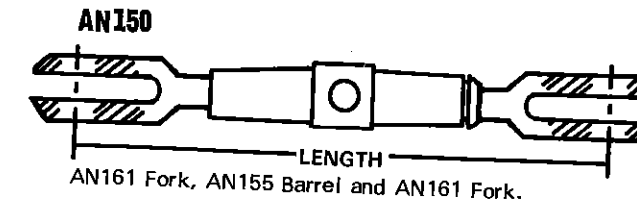
| DASH # | FITS CABLE SIZE | DIMENSIONS | | | Price EACH |
|--------|-----------------|------------|------|-------|------------|
| | | A | B | D | |
| - 3 | 1/16 5/64 | | | | .09 |
| - 4 | 3/32 7/64 1/8 | .35 | .70 | 9/64 | .10 |
| - 5 | 5/32 | .40 | .80 | 11/64 | .17 |
| - 6 | 3/16 | .50 | 1.00 | 13/64 | .20 |

TURNBUCKLES COMPLETE ASSEMBLIES

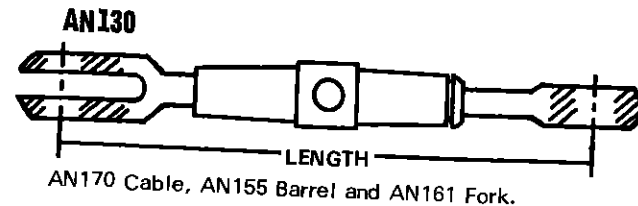
Complete Turnbuckle Assemblies consist of a brass barrel & two steel ends, one with right hand thread and the other with left hand thread. Order by proper AN number & add dash number and a letter to indicate length and strength required.



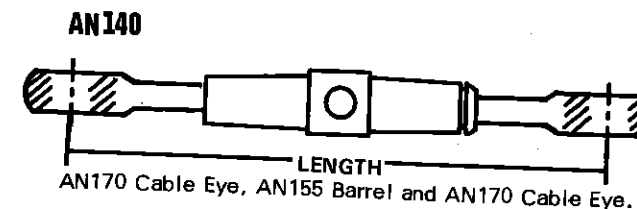
AN170 Cable Eye, AN155 Barrel and AN165 Pin Eye.



AN161 Fork, AN155 Barrel and AN161 Fork.



AN170 Cable, AN155 Barrel and AN161 Fork.

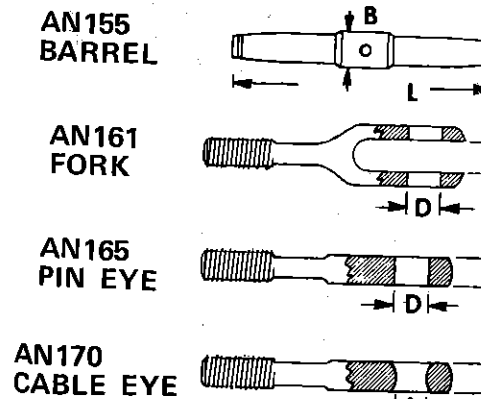


AN170 Cable Eye, AN155 Barrel and AN170 Cable Eye.

| Dash No. | LENGTH (inches) | | | | strength (pounds) | Price (complete assembly) | | | |
|----------|-----------------|---------|-------|---------|-------------------|---------------------------|--------|--------|--------|
| | AN130 | AN135 | AN140 | AN150 | | AN130 | AN135 | AN140 | AN150 |
| -8S | 4-1/2 | 4-1/2 | 4-1/2 | 4-1/2 | 800 | \$6.16 | \$5.95 | \$4.87 | \$6.45 |
| -16S | 4-1/2 | 4-1/2 | 4-1/2 | 4-1/2 | 1600 | 6.24 | 6.15 | 6.06 | 6.60 |
| -16L | 8 | 8 | 8 | 8 | 1600 | 6.38 | 6.25 | 6.25 | 6.80 |
| -22S | 4-17/32 | 4-17/32 | 4-1/2 | 4-17/32 | 2200 | 6.60 | 6.50 | 6.50 | 6.95 |
| -22L | 8-1/32 | 8-1/32 | 8 | 8-1/32 | 2200 | 7.54 | 7.25 | 7.25 | 7.95 |
| -32S | 4-19/32 | 4-19/32 | 4-1/2 | 4-19/32 | 3200 | 8.50 | 8.15 | 8.15 | 8.65 |
| -32L | 8-7/64 | 8-7/64 | 8 | 8-7/64 | 3200 | 10.08 | 9.95 | 9.95 | 10.75 |
| -46S | 4-21/32 | 4-21/32 | 4-1/2 | 4-21/32 | 4600 | 11.02 | 10.75 | 10.75 | 11.75 |
| -46L | 8-5/32 | 8-5/32 | 8 | 8-5/32 | 4600 | 15.95 | 15.50 | 15.50 | 16.95 |
| -61L | 8-9/32 | 8-9/32 | 8 | 8-9/32 | 6100 | 17.95 | 17.50 | 17.50 | 18.45 |
| -80L | 8-5/16 | 8-5/16 | 8 | 8-5/16 | 8000 | 19.50 | 18.95 | 18.95 | 19.75 |

TURNBUCKLE PARTS

The "R" or "L" following the dash number designates "right" or "left." The "S" or "L" (2nd letter following dash number) indicates "short" or "long." AN 161 Fork and AN 170 Cable Eye are available with either right or left-hand thread.



| Dash No. | Thread Size | AN 155 Barrel | | AN 161 Fork | | AN 165 Pin Eye | | AN 170 Cable Eye | |
|----------|-------------|---------------|------|-------------|------|----------------|------|------------------|------|
| | | "G" | "B" | "C" | "D" | "J" | "D" | "A" | "J" |
| -8S | 6-40 | 2-1/4 | .250 | .109 | .188 | .125 | .188 | .188 | .125 |
| -16S | 10-32 | 2-1/4 | .344 | .156 | .188 | .188 | .188 | .188 | .188 |
| -16L | 10-32 | 4 | .344 | .156 | .188 | .188 | .188 | .219 | .188 |
| -22S | 1/4-28 | --- | --- | .187 | .188 | .188 | .188 | .219 | .188 |
| -22L | 1/4-28 | --- | --- | .187 | .188 | .188 | .188 | .229 | .188 |
| -32S | 1/4-28 | 2-1/4 | .438 | .218 | .250 | .219 | .250 | .281 | .219 |
| -32L | 1/4-28 | 4 | .438 | .218 | .250 | .219 | .250 | .281 | .219 |
| -46S | 5/16-24 | 2-1/4 | .500 | .250 | .313 | .281 | .313 | .313 | .281 |
| -46L | 5/16-24 | 4 | .500 | .250 | .313 | .281 | .313 | .313 | .281 |
| -61L | 3/8-24 | --- | --- | .270 | .375 | .281 | .375 | .344 | .281 |
| -80L | 3/8-24 | 4 | .625 | .312 | .375 | .328 | .375 | .375 | .328 |

PRICES: TURNBUCKLE PARTS AN155


TURNBUCKLE END AN161-8RS \$2.80
AN161-8LS \$2.80

BELLCRANK BEARINGS

| BORE I.D. | PRICE EACH |
|-----------|------------|
| 1/4" | \$2.75 |
| 5/16" | \$3.95 |



"T" BOLTS FOR FUEL TANK HOLD DOWN

| | | |
|---|------|--------|
|  | 1032 | \$2.25 |
| | 1/4" | \$2.25 |

BALL JOINT ASSY.

1032 Female End \$1.50



ROD ENDS

| | | | |
|-------------|--------|------------|--------|
| AN490-HT10P | \$2.10 | AN490-HT5P | \$1.25 |
| AN490-HT11P | \$2.30 | AN490-HT6P | \$1.30 |
| AN490-HT13P | \$2.30 | AN490-HT7P | \$1.50 |
| | | AN490-HT8P | \$1.75 |
| | | AN490-HT9P | \$1.90 |

ROD END BEARINGS

| FAFNIR | | | |
|------------------|---------|-------|-------|
| RE3F4 | \$4.95 | B268 | 2.02 |
| RE3F5 | 4.95 | B88 | .82 |
| RE4F4 | 4.75 | HM-8 | 9.00 |
| RE4F5 | 7.95 | HM-12 | 12.00 |
| RE3M6 | 4.25 | | |
| RE4M4(M44-14) | \$4.25 | | |
| RE4M6 | 7.50 | | |
| RE4H5 | 4.95 | | |
| REB3N2 | 6.95 | | |
| RE4H6 | \$11.95 | | |
| HEIM | | | |
| MJV46-19K (MJ2V) | \$12.95 | | |
| F45-19M | 7.95 | | |
| M45-19 | 3.95 | | |

Aileron Bearing
set of 8--\$35.00

SR4A5PP ----\$7.95/ea
(for control stick)

KP4 BEARING --- \$4.65

AT3 BEARING ---\$2.95

TUBE FITTINGS

AN and MS standard fittings for use with aircraft tubing. Made in three basic types: flared, universal, and screw thread; and in combinations of these types. Flared tube fittings consisting of a nut, sleeve, and body form a leakproof connection... no soldering necessary. Screw thread fittings and universal fittings employ a soft brass or aluminum gasket to make a leakproof connection. Available in brass, steel, or aluminum alloy as indicated in the tables accompanying each illustration. Popular sizes only are listed on these pages. Most fittings can be ordered in larger sizes.

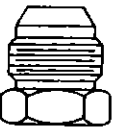
Order tube fittings by AN number plus dash number for size and material desired. Example:
AN804-5 (Tee, 5/16" tube size, steel)
AN806-4D (Plug, 1/4" tube size, aluminum alloy)

804 TEE - Flared Tube with Bulkhead on Run



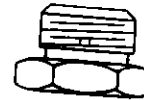
| DASH NUMBER | TUBE O.D. | PRICE |
|-------------|-----------|--------|
| -2D | 1/8" | \$7.20 |
| -3D | 3/16" | 7.20 |
| -4D | 1/4" | 3.60 |
| -5D | 5/16" | 4.10 |
| -6D | 3/8" | 4.95 |
| -8D | 1/2" | 7.20 |
| -10D | 5/8" | 12.60 |

AN806 PLUG Flared Tube



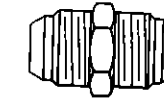
| DASH NUMBER | TUBE O.D. | PRICE |
|-------------|-----------|-------|
| -2D | 1/8" | \$.55 |
| -3D | 3/16" | .55 |
| -4D | 1/4" | .65 |
| -5D | 5/16" | .75 |
| -6D | 3/8" | .90 |

AN814 PLUG AND BLEEDER Screw Thread



| DASH NUMBER | TUBE O.D. | PRICE |
|-------------|-----------|--------|
| -2D | 1/8" | \$1.10 |
| -3D | 3/16" | 1.10 |
| -4D | 1/4" | 1.10 |
| -5D | 5/16" | 1.40 |
| -6D | 3/8" | 1.50 |

AN815 UNION Flared Tube



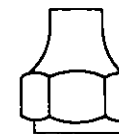
| DASH NUMBER | TUBE O.D. | PRICE |
|-------------|-----------|--------|
| -2D | 1/8" | \$2.50 |
| -3D | 3/16" | 1.10 |
| -4D | 1/4" | 1.10 |
| -5D | 5/16" | 1.60 |
| -6D | 3/8" | 1.60 |
| -8D | 1/2" | 1.90 |

AN816 NIPPLE Flared Tub and Pipe Thread



| DASH NUMBER | TUBE O.D. | PIPE THREAD | PRICE |
|-------------|-----------|-------------|--------|
| -2D | 1/8" | 1/8" | \$2.00 |
| -3D | 3/16" | 3/16" | 1.10 |
| -4D | 1/4" | 1/4" | 1.10 |
| -5D | 5/16" | 5/16" | 1.25 |
| -6D | 3/8" | 3/8" | 1.30 |
| -8D | 1/2" | 1/2" | 1.80 |
| -10D | 5/8" | 5/8" | 2.95 |
| -12D | 3/4" | 3/4" | 4.25 |

AN817 NUT Sleeve, Coupling



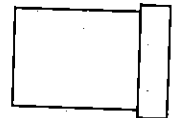
| DASH NUMBER | TUBE O.D. | PRICE |
|-------------|-----------|-------|
| -2D | 1/8" | \$.70 |
| -3D | 3/16" | .80 |
| -4D | 1/4" | 1.00 |
| -5D | 5/16" | 1.10 |
| -6D | 3/8" | 1.15 |

AN818 NUT Coupling



| DASH NUMBER | TUBE O.D. | PRICE |
|-------------|-----------|-------|
| -2D | 1/8" | \$.20 |
| -3D | 3/16" | .20 |
| -4D | 1/4" | .25 |
| -5D | 5/16" | .35 |
| -6D | 3/8" | .50 |
| -8D | 1/2" | .73 |

MS20819 SLEEVE Coupling



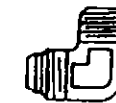
| DASH NUMBER | TUBE O.D. | PRICE |
|-------------|-----------|-------|
| -2D | 1/8" | \$.20 |
| -3D | 3/16" | .23 |
| -4D | 1/4" | .23 |
| -5D | 5/16" | .23 |
| -6D | 3/8" | .25 |
| -8D | 1/2" | .65 |

AN821 ELBOW, 90° Flared Tube



| DASH NUMBER | O.D. TUBE | PRICE |
|-------------|-----------|--------|
| -2D | 1/8" | \$3.15 |
| -3D | 3/16" | 2.50 |
| -4D | 1/4" | 2.70 |
| -5D | 5/16" | 2.25 |
| -6D | 3/8" | 3.10 |
| -8D | 1/2" | 4.10 |

MS20822 ELBOW, 90° Flared Tube and Pipe Thread



| DASH NUMBER | TUBE O.D. | PIPE THREAD | PRICE |
|-------------|-----------|-------------|--------|
| -2D | 1/8" | 1/8" | \$2.75 |
| -3D | 3/16" | 3/16" | 2.37 |
| -4D | 1/4" | 1/4" | 1.75 |
| -5D | 5/16" | 5/16" | 2.27 |
| -6D | 3/8" | 3/8" | 2.27 |
| -8D | 1/2" | 1/2" | 3.25 |
| -10D | 5/8" | 5/8" | 6.50 |
| -12D | 3/4" | 3/4" | 8.50 |

MS20823 ELBOW, 45° Flared Tube and Pipe Thread

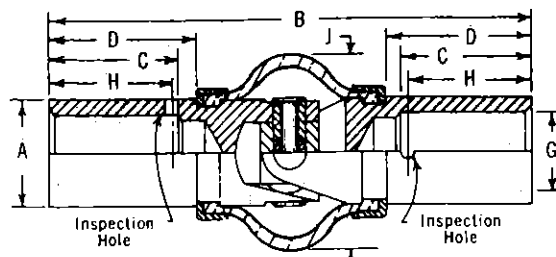


| DASH NUMBER | TUBE O.D. | PIPE THREAD | PRICE |
|-------------|-----------|-------------|--------|
| -2D | 1/8" | 1/8" | \$3.67 |
| -3D | 3/16" | 3/16" | 3.50 |
| -4D | 1/4" | 1/4" | 2.70 |
| -5D | 5/16" | 5/16" | 2.87 |
| -6D | 3/8" | 3/8" | 2.25 |
| -8D | 1/2" | 1/2" | 4.82 |
| -10D | 5/8" | 5/8" | 6.50 |



HEAVY-DUTY Military Standard Universal Joints

MS-20271 Series
(formerly AN-271)



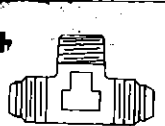
| PART NO. | NOMINAL | Price |
|--------------|---------|---------|
| MS-20271-B6 | 3/8 | \$18.00 |
| MS-20271-B8 | 1/2 | |
| MS-20271-B10 | 5/8 | |
| MS-20271-B12 | 3/4 | |
| MS-20271-B14 | 7/8 | |

TEE
Flared Tube



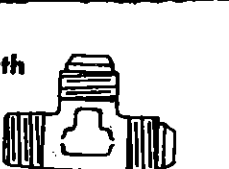
| DASH NUMBER | TUBE O.D. | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -2D | 1/4" | \$5.95 |
| -3D | 3/8" | 3.50 |
| -4D | 1/2" | 2.85 |
| -5D | 5/8" | 3.10 |
| -6D | 3/4" | 3.10 |
| -10D | 1" | 7.45 |

MS20825 TEE
Flared Tube with Pipe Thread on Side



| DASH NUMBER | TUBE O.D. | PIPE THREAD | |
|-------------|-----------|-------------|--------|
| ALUM. ALLOY | | | |
| -2D | 1/4" | 1/8" | \$5.25 |
| -3D | 3/8" | 1/8" | 3.30 |
| -4D | 1/2" | 1/8" | 3.80 |
| -5D | 5/8" | 1/8" | 3.00 |
| -6D | 3/4" | 1/8" | 3.00 |

MS20826 TEE
Flared Tube with Pipe Thread on Run



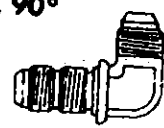
| DASH NUMBER | TUBE O.D. | PIPE THREAD | |
|-------------|-----------|-------------|--------|
| ALUM. ALLOY | | | |
| -2D | 1/4" | 1/8" | \$3.75 |
| -3D | 3/8" | 1/8" | 4.95 |
| -4D | 1/2" | 1/8" | 2.50 |
| -5D | 5/8" | 1/8" | 5.95 |
| -6D | 3/4" | 1/8" | 3.10 |
| -8D | 1" | 1/8" | 5.50 |

AN832 UNION
Flared Tube, 1/2 Bulkhead and Universal



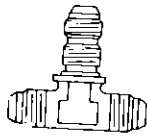
| DASH NUMBER | TUBE O.D. | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -2D | 1/4" | \$2.50 |
| -3D | 3/8" | 2.05 |
| -4D | 1/2" | 2.05 |
| -5D | 5/8" | 2.10 |
| -6D | 3/4" | 2.25 |

AN833 ELBOW, 90°
Flared Tube, Bulkhead and Universal



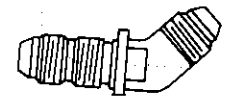
| DASH NUMBER | TUBE O.D. | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -2D | 1/4" | \$3.12 |
| -3D | 3/8" | 4.70 |
| -4D | 1/2" | 3.10 |
| -5D | 5/8" | 3.33 |
| -6D | 3/4" | 3.50 |

AN834 TEE
Flared Tube, Bulkhead and Universal



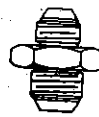
| DASH NUMBER | TUBE O.D. | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -2D | 1/4" | \$5.55 |
| -3D | 3/8" | 8.20 |
| -4D | 1/2" | 4.70 |
| -5D | 5/8" | 4.25 |
| -6D | 3/4" | 4.00 |

AN837 ELBOW, 45°
Flared Tube, Bulkhead and Universal



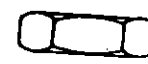
| -NO. AL. | TUBE O.D. | |
|----------|-----------|--------|
| -2D | 1/4" | \$3.45 |
| -3D | 3/8" | 3.00 |
| -4D | 1/2" | 3.50 |
| -5D | 5/8" | 4.10 |
| -6D | 3/4" | 3.15 |
| -8D | 1" | 4.50 |

AN919 REDUCER
External Thread Flared Tube



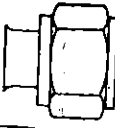
| -NO. AL. | TUBE O.D. | | |
|----------|-----------|-----------|--------|
| | LARGE END | SMALL END | |
| -1D | 1/4" | 1/8" | \$1.25 |
| -3D | 3/8" | 1/4" | 1.50 |
| -4D | 1/2" | 3/8" | 2.15 |
| -6D | 3/4" | 1/2" | 2.10 |
| -8D | 1" | 3/4" | 3.45 |
| -12D | 1 1/2" | 1" | 2.25 |

AN924 NUT
Flared Tube, Bulkhead and Universal Fitting



| -NO. AL. | TUBE O.D. | |
|----------|-----------|--------|
| -2D | 1/4" | \$.30 |
| -3D | 3/8" | .35 |
| -4D | 1/2" | .38 |
| -5D | 5/8" | .50 |
| -6D | 3/4" | .55 |
| -8D | 1" | .90 |
| -10D | 1 1/4" | .90 |

AN929 CAP (Assembly)
Pressure Seal Flared Tube Fitting



| DASH NUMBER | TUBE O.D. | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -2D | 1/4" | \$.55 |
| -3D | 3/8" | .65 |
| -4D | 1/2" | .65 |
| -5D | 5/8" | .65 |
| -6D | 3/4" | .80 |
| -8D | 1" | 1.20 |
| -10D | 1 1/4" | 1.90 |

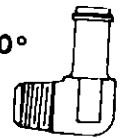
HOSE FITTINGS

AN840 HOSE NIPPLE
Pipe Thread



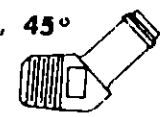
| DASH NO. | HOSE I.D. | PIPE THREAD | |
|----------|-----------|-------------|--------|
| ALUM. | | | |
| -4D | 1/4" | 1/8" | \$1.70 |
| -6D | 3/8" | 1/8" | 1.80 |
| -8D | 1/2" | 1/8" | 3.70 |

AN842 HOSE ELBOW, 90°
Pipe Thread



| DASH NO. | HOSE I.D. | PIPE THREAD | |
|----------|-----------|-------------|--------|
| ALUM. | | | |
| -4D | 1/4" | 1/8" | \$4.20 |
| -6D | 3/8" | 1/8" | 5.50 |
| -8D | 1/2" | 3/8" | 6.90 |
| -10D | 5/8" | 1/2" | 9.50 |
| -12D | 3/4" | 3/4" | 10.50 |

AN844 HOSE ELBOW, 45°
Pipe Thread

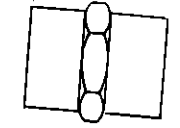


| DASH NO. | HOSE I.D. | PIPE THREAD | |
|----------|-----------|-------------|--------|
| ALUM. | | | |
| -4D | 1/4" | 1/8" | \$4.17 |
| -6D | 3/8" | 1/8" | 5.50 |
| -8D | 1/2" | 3/8" | 7.00 |
| -10D | 5/8" | 1/2" | 10.00 |

PIPE FITTINGS

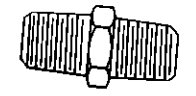
Pipe fittings approved for use on aircraft. Made of aluminum alloy, brass, and steel as indicated in the tables accompanying each illustration. All applicable Government specifications and standard drawings are adhered to in the manufacture of these fittings. Fittings are available in sizes larger than those listed in the following tables. Price and delivery information will be furnished on request.

AN910 COUPLING



| DASH NUMBER | PIPE SIZE | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -1D | 1/4" | \$1.75 |
| -2D | 3/8" | 1.50 |
| -3D | 1/2" | 3.55 |
| -4D | 5/8" | 4.50 |
| -6D | 3/4" | 7.50 |

AN911 HEX. SHOULDER NIPPLE



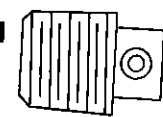
| DASH NUMBER | PIPE SIZE | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -1D | 1/4" | \$.90 |
| -2D | 3/8" | 1.40 |
| -3D | 1/2" | 2.25 |
| -4D | 5/8" | 3.20 |

AN912 BUSHING Reducer



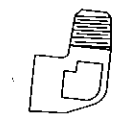
| DASH NUMBER | PIPE SIZE | |
|-------------|-------------|--------|
| ALUM. ALLOY | | |
| -1D | 1/4" x 1/8" | \$.75 |
| -2D | 3/8" x 1/4" | \$1.25 |
| -3D | 1/2" x 3/8" | 1.75 |
| -4D | 5/8" x 1/2" | 2.50 |
| -5D | 3/4" x 1/2" | 2.60 |
| -7D | 1" x 3/4" | 3.50 |
| -8D | 1 1/4" x 1" | 3.50 |

MS20913 PLUG
Square Head



| DASH NUMBER | PIPE SIZE | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -1D | 1/4" | \$1.25 |
| -2D | 3/8" | 1.80 |
| -3D | 1/2" | 2.00 |
| -4D | 5/8" | 3.50 |

AN914 ELBOW, 90°
Internal and External Thread

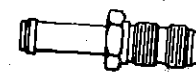


| DASH NUMBER | PIPE SIZE | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -1D | 1/4" | \$2.60 |
| -2D | 3/8" | 4.40 |
| -3D | 1/2" | 7.05 |

HOSE FITTINGS

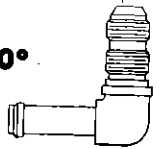
Fittings designed for making required hose connections in various aircraft systems. Made of brass and aluminum alloy to all applicable government specifications and AN standard drawings. Hose fittings are available in larger sizes than listed on this page. Price and delivery information will be furnished on request.

AN807 Hose to Universal ADAPTER



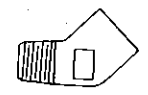
| DASH NUMBER | HOSE I.D. | TUBE O.D. | |
|-------------|-----------|-----------|--------|
| NUMBER | | | |
| -4D | 1/4" | 1/4" | \$5.35 |
| -6D | 3/8" | 3/8" | 6.95 |

AN838 ELBOW, 90°
Hose to Universal



| DASH NUMBER | HOSE I.D. | TUBE O.D. | |
|-------------|-----------|-----------|--------|
| ALUM. ALLOY | | | |
| -4D | 1/4" | 1/4" | \$5.00 |
| -6D | 3/8" | 3/8" | 8.20 |
| -8D | 1/2" | 1/2" | 10.00 |
| -10D | 5/8" | 5/8" | 12.00 |

AN915 ELBOW, 45°
Internal and External Thread



| DASH NUMBER | PIPE SIZE | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -1D | 1/4" | \$3.20 |
| -2D | 3/8" | 4.50 |
| -3D | 1/2" | 6.50 |

AN916 ELBOW, 90°
Internal Thread



| DASH NUMBER | PIPE SIZE | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -1D | 1/4" | \$3.30 |
| -2D | 3/8" | 5.00 |
| -3D | 1/2" | 7.00 |

AN917 TEE
Internal Thread



| DASH NUMBER | PIPE SIZE | |
|-------------|-----------|--------|
| ALUM. ALLOY | | |
| -1D | 1/4" | \$3.25 |
| -2D | 3/8" | 5.50 |
| -3D | 1/2" | 7.25 |

HI-DUTY SHUT-OFF VALVES

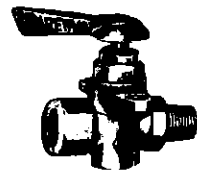
2-WAY VALVES

NO. 100-HD
TUBE TO TUBE
1/4" X 1/4"



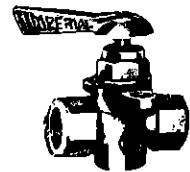
\$12.10

NO. 103-HD
F.P.T. TO M.P.T.
1/4" X 1/4"



\$17.65

NO. 104-HD
F.P.T. TO F.P.T.
1/4" X 1/4"



\$ 17.10

3-WAY VALVES

NO. 108-HD
F.P.T. TO F.P.T. TO F.P.T.
1/4" X 1/4" X 1/4" \$19.25
3/8" X 3/8" X 3/8" \$22.42



3-WAY VALVES (CONT.)

NO. 113-HD - 2" STEM
F.P.T. TO F.P.T. TO F.P.T.
1/4" X 1/4" X 1/4"



\$ 23.10

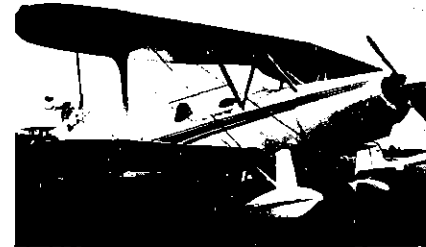
NO. 118-HD - DISTRIBUTOR VALVE
F.P.T. TO F.P.T. TO F.P.T.
1/4" X 1/4" X 1/4"



\$19.85

4-WAY VALVES

NO. 114-HD
F.P.T. TO F.P.T. TO F.P.T. TO F.P.T.
1/4" X 1/4" X 1/4" X 1/4" \$19.10



NYLO-SEAL TUBE FITTINGS

NO. 259-N
INSERT (NYLON)
1/4"



\$.34

NO. 261-N
NUT & SLEEVE ASSEMBLY
1/4"



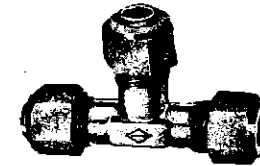
\$.32

NO. 262-N
UNION
TUBE TO TUBE
1/4"



\$.81

NO. 264-N
UNION TEE
TUBE TO TUBE TO TUBE
1/4"



\$ 1.67

NO. 265-N
UNION ELBOW
TUBE TO TUBE
1/4"



\$1.15

NO. 266-N
FEMALE CONNECTOR
TUBE TO FEMALE P.T.
1/4" X 1/8"



\$.79

NO. 268-N
MALE CONNECTOR
TUBE TO MALE P.T.
1/4" X 1/8"



\$.56

NO. 269-N
MALE ELBOW
TUBE TO MALE P.T.
1/4" X 1/8"
1/4" X 1/4"



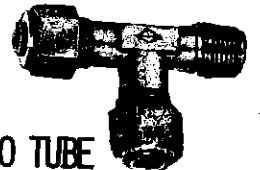
\$.88
\$1.29.

NO. 270-N
FEMALE ELBOW
TUBE TO FEMALE P.T.
1/4" X 1/8"



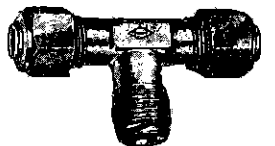
\$ 1.36

NO. 271-N
MALE RUN TEE
TUBE TO MALE P.T. TO TUBE
1/4" X 1/8"



\$1.36

No. 272-N MALE BRANCH TEE
Tube to Tube to Male P.T.
1/4" x 1/8"



\$ 1.38

NO. 282-N
BULKHEAD UNION
TUBE TO TUBE
1/4"



\$ 1.09

1/4" NYLO-SEAL TUBING

\$.23/ft

POLY-FLO TUBE FITTINGS

No. 261-P
NUT & SLEEVE ASSEMBLY
 1/4" \$.35



No. 271-P MALE RUN TEE
Tube to Male P.T. to Tube
 1/4" \$2.50



No. 261-PG
NUT & SLEEVE ASSEMBLY FOR SPRING GUARD
 1/4" \$1.36



No. 269-P MALE ELBOW
Tube to Male P.T.
 1/4" \$1.20



No. 262-P
UNION
Tube to Tube
 1/4" \$1.50



No. 272-P MALE BRANCH TEE
Tube to Tube to Male P.T.
 1/4" \$2.30



No. 262-PC
UNION
Poly-Flo to Std. Comp.
 1/4" \$1.15



No. 282-P BULKHEAD UNION
Tube to Tube
 1/4" \$3.00



No. 262-PH
UNION
Poly-Flo to Hi-Duty
 1/4" \$1.04



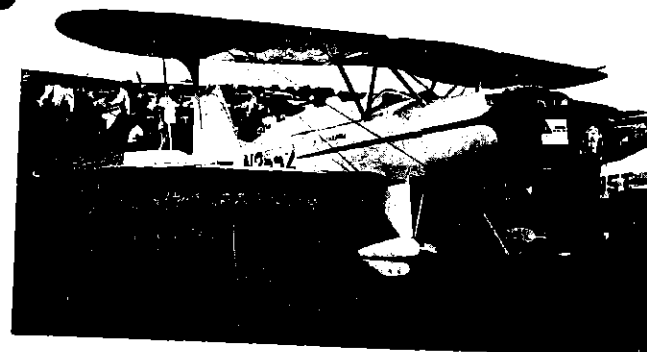
No. 282-PC BULKHEAD UNION
Poly-Flo to Std. Comp.
 1/4" \$2.50



No. 264-P
UNION TEE
Tube to Tube to Tube
 1/4" \$2.41



POLY-FLO TUBING \$.23/ft



CAMLOC

SERIES 2700

| SLOTTED HEAD | | |
|--------------|----------------------------|----------------|
| part no. | material | temp. |
| 2700-* | Steel | 450°F |
| †2700-* | Stainless Steel | 700°F |
| †27S12-1AA | Stainless Steel (17-4 PH) | 700°F |
| 27S12-1BB | Beryllium Copper (Non Mag) | Consult S.F.D. |

| CROSS RECESS HEAD | | |
|-------------------|----------|-------|
| part no. | material | temp. |
| 27S3-* | Steel | 450°F |

S = .58 + (.03 × Dash No.)
 *Insert stud length dash number. Refer to Table I below to select the proper dash number for the total material thickness.
 †Contact S.F.D. for strength characteristics.

2600 SERIES

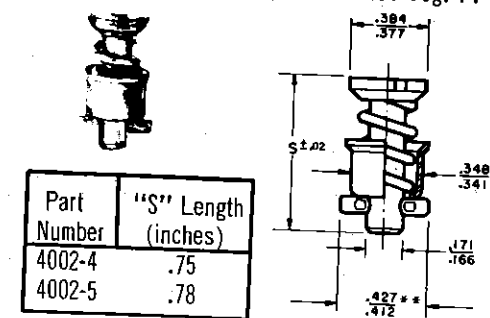
| SLOTTED HEAD | | |
|--------------|----------------------------|----------------|
| part no. | material | temp. |
| 2600-* | Steel | 450°F |
| †2600-* | Stainless Steel | 700°F |
| †26S26-* | Stainless Steel (Non Mag) | 700°F |
| 26S26-* | Beryllium Copper (Non Mag) | Consult S.F.D. |
| 26S36-* | Steel (Chrome Plated) | 450°F |
| 26S42-* | Steel (Nickel Plated) | 450°F |

S = .73 + (.03 × Dash No.)
 *Insert stud length dash number. Refer to Table I to select the proper dash number for the total material thickness.
 †Contact Specialty Fastener Division for strength characteristics.

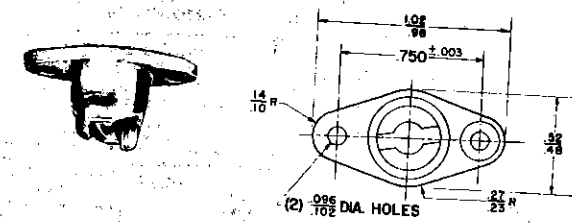
Note: A complete line of head styles are available.

| Camlock Studs | Price |
|---------------------|-------|
| 2600-2W (Wing Head) | |
| 4W 6W | 1.05 |
| 2600-12W | 1.05 |
| 2600-16W, 20W | 1.05 |
| 2700-3, -4 | .66 |
| 27S3-2, -3, -4, -5 | .70 |
| -11 | .80 |
| 4002-2, -4, -5 | .90 |
| Receptacals | .99 |
| Washer (2600-LW) | .09 |
| Grommets | |
| 4002-G | .31 |
| 4002-N | .33 |

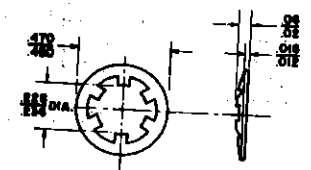
4002 SERIES
 Shear and tensile strength: 1050 lbs (ultimate); 700 lbs (rated). Studs and grommets shown are made of steel, rated to 450 deg. F.



Stud grip length depends on type of grommet and receptacle used in stud assembly.



212-12D RECEPTACLE
 Standard receptacle in 2600/2700 stud assemblies. Counter-sunk rivet holes.

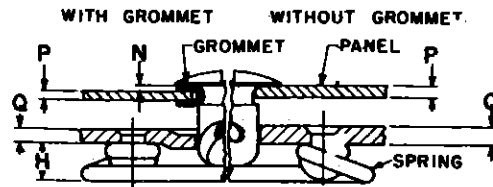


SOLID WASHER

| part no. | material | temp. |
|----------|----------|-------|
| 2600-LW | Steel | 450°F |

Wt. Per 100 — 0.04 lbs.

TYPICAL ASSEMBLY

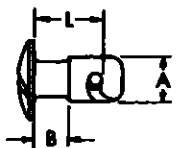


IN SELECTING LENGTH OF FASTENER-
ADD N+P+Q+H - SUBTRACT SPRING DEFLECTION.
FOR INSTALLATION WITHOUT GROMMET - OMIT 'N'.
SELECT FASTENER WITH 'L' DIMENSION NEAREST
TO REQUIRED LENGTH. IF REQUIRED LENGTH IS LESS
THAN 'L' DIMENSION OF FASTENER SELECTED, ADD
WASHERS UNDER SPRING SEATS TO EQUAL THE DIFFERENCE.

DZUS
FASTENERS

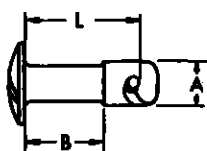
TYPE A
FASTENERS

Oval Head Short Undercut



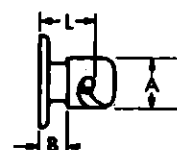
TYPE AJ
FASTENERS

Ov Head Long Undercut



TYPE FA
FASTENERS

Flush Head with Rounded Edges



TYPE AW-AJW

SAME AS TYPE A & AJ RESPECTIVELY EXCEPT WING IS ADDED.



WING TYPE FASTENERS
All wings are made of steel-cadmium plated.

Wings can be installed in any type standard fastener. When ordering wing type fasteners, add letter 'W' to the type identification of desired A, AJ, F, FJ or FA fastener. For example: FA5-45 with wing would be FAW5-45.

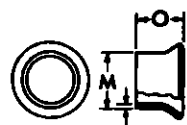
**DZUS
INSTALLATION
TOOLS**

Only Available in sets as shown:

| PART NUMBER | TYPE FASTENER | SET COMPOSED OF |
|-------------|-----------------|-------------------|
| A-4 | A4, AJ4 | 4 tools, 2 blocks |
| A-5 | A5, AJ5 | 4 tools, 2 blocks |
| A-6 1/2 | A6 1/2, AJ6 1/2 | 4 tools, 2 blocks |
| F-5 | FA5 | 3 tools, 3 blocks |
| F-6 1/2 | FA6 1/2 | 3 tools, 3 blocks |

Price quote on request

TYPES GA AND GF
GROMMETS

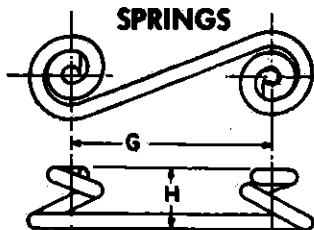


TYPE GA

TYPE GF

| STOCK NUMBER | PRICE | DIMENSIONS (Inch) | | | MAX. THICKNESS OF PANEL |
|--------------|-------|-------------------|-------|------|-------------------------|
| | | O | M | N | |
| GA3-175 | \$.14 | .175 | .2187 | .015 | .025 |
| GA3-200 | | .200 | .2187 | .015 | .050 |
| GA4-250 | | .250 | .3125 | .025 | .050 |
| GA5-312 | \$.14 | .312 | .375 | .028 | .062 |
| GA5-375 | | .375 | .375 | .028 | .125 |
| GA6 1/2-375 | | .375 | .500 | .035 | .093 |
| GA6 1/2-500 | | .500 | .500 | .035 | .200 |
| GFS-175 | \$.22 | .175 | .375 | .028 | .062 |
| GF6 1/2-250 | \$.30 | .250 | .500 | .035 | .093 |
| GSA6 1/2-750 | | .750 | .500 | .035 | .800 |

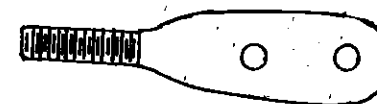
TYPE S
SPRINGS



| STOCK NUMBER | PRICE | DIMENSIONS (Inch) | |
|--------------|------------|-------------------|-------|
| | | H | G |
| S4-200 | \$.30 each | .200 | .750 |
| S4-250 | | .250 | |
| S5A-200 | | .200 | |
| S5A-225 | | .225 | 1.000 |
| S5A-300 | | .300 | |
| S5A-325 | | .325 | |
| S6A-225 | | .225 | |
| S6A-250 | | .250 | |
| S6A-275 | | .275 | 1.375 |
| S6A-400 | | .400 | |
| S6A-425 | .425 | | |



SOLDERLESS ELECTRIC TERMINAL



FULL SIZE

DOUBLE HOLE ROD END -
-832 THREADS - TWO 1/8" DIA.
HOLES, MAY BE BORED OUT TO
3/16" DIA. EXCELLENT FOR DUAL
RUDDER PEDAL INSTALLATIONS.
ONE HOLE FASTENS TO RUDDER
PEDAL, AND ONE HOLE IS AVAIL-
ABLE FOR RETURN SPRING, OR
RUDDER CABLE.

WHITE THEY LAST - 45¢/each

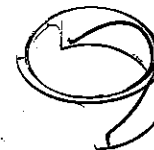
A2-100 "SNAPVENT" CABIN VENTILATORS



An adjustable, transparent, plastic ventilator. Keeps rain out and prevents fogging of windows. Easily installed in plastic windshield or metal cowling. Installs in a 2" diameter opening. Comes complete with installation instructions.

\$3.95/pr.

CC-3251 "SNAPVENT" CABIN VENTILATORS



An adjustable, flat top, spring type, transparent plexi-glass ventilator. Installs in a 3 1/4" diameter hole, no fasteners required. Retracts to a near flush position when closed.

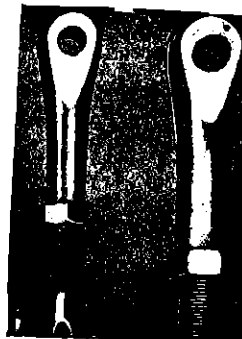
\$6.95/pr.



FLUSH LATCHES

Hartwell H-5000-2 is a spring loaded, trigger action latch for cowling and access doors. Made of corrosion resistant steel, cadmium plated.

\$3.95/each



AN665 TERMINALS
These steel terminals are manufactured to "AN" specifications with either right hand or left hand thread. Example of part no.: AN665-10L left hand thread AN665-10R right hand thread

| Right Hand | Left Hand | Size and Thread | Pin Hole Diameter | Strength in Pounds | Price Each |
|------------|-----------|-----------------|-------------------|--------------------|------------|
| -21R | -21L | 10-32 | .190" | 2400 | \$2.23 |
| -34R | -34L | 1/4-28 | .250 | 4200 | 3.13 |
| -46R | -46L | 5/16-24 | .313 | 4600 | 4.40 |
| -61R | -61L | 5/16-24 | .375 | 6900 | 5.90 |
| -80R | -80L | 3/8-24 | .375 | 10000 | 6.26 |

ENGINE BAFFLE MATERIAL

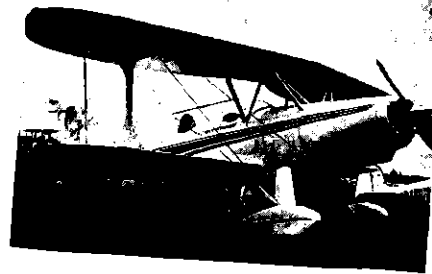
LIGHT WEIGHT HIGH TENSILE SYNTHETIC MATERIAL, IMPREGNATED & COVERED WITH A NEOPRENE COMPOUND IMPREVIOUS TO THE ACTION OF OOLD OILS & GASOLINE. COULD BE USED FOR FUEL TANK ABRASION STRIPS.

3"(W) x 9'(L) x 1/16" (T)
---\$9.95/roll

36"(W) x 1/16(T)
---\$1.15/inch

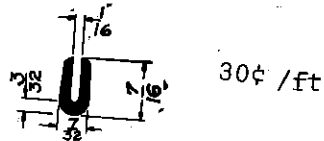
1 1/8" x 29" x 1/16"
---\$.75/each

1 5/8" x 26" x 1/8"
(curved to fit cowl line)
---\$1.50/each



RUBBER CHANNELING

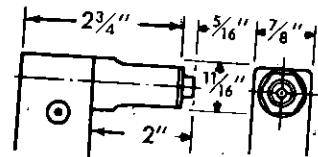
Windshields, Windows, Door Frames
Fairings, Tail Surfaces



PRG 402 H.D.

Sturdy, efficient Hand Riveter for low-production, prototype, or field fastening applications. Equipped with interchangeable nosepieces for larger diameter rivets.

\$36.50



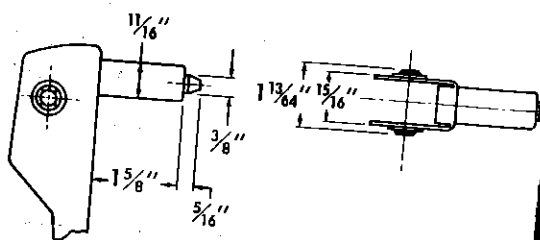
• INDICATES OPEN END RIVETS MATERIAL ■ INDICATES CLOSED END RIVETS RIVET DIAMETERS

| RIVET MATERIAL | MANDREL | 3/32 | 7/64 | 1/8 | 5/32 | 3/16 |
|----------------|-----------|------|------|-----|------|------|
| alum. | alum. | • | | • | • | • |
| alum. | steel | • | | • | • | • |
| steel | steel | • | | • | • | • |
| Monel | steel | | • | • | • | |
| stainless | stainless | | • | • | • | |

PRG 111

An inexpensive non-repairable hand "POP" Riveter. Designed to set 1/8" diameter rivets and some larger sizes. Ideal for the repairman's tool box.

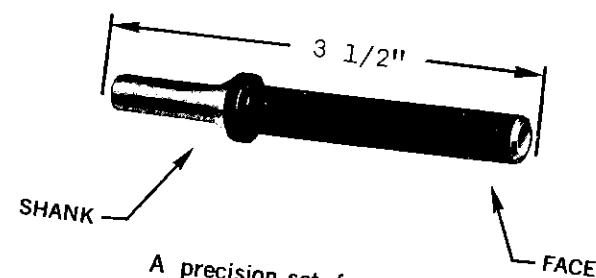
\$20.50



STOLP STARDUSTER CORP.

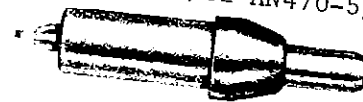
4301 TWINING FLABOB AIRPORT
RIVERSIDE, CALIFORNIA 92509
(714) 686-7943

AT100
STRAIGHT-TYPE



A precision set for riveting in open areas.

- AT100AF3A - 1/2" Flat HD \$3.95
- AT100A3 3/32 AN470-3/32" Univ. HD \$3.95
- AT100A3 1/8 AN470-1/8" Univ. HD \$3.95
- AT100A3 5/32 AN470-5/32" Univ. HD \$3.95

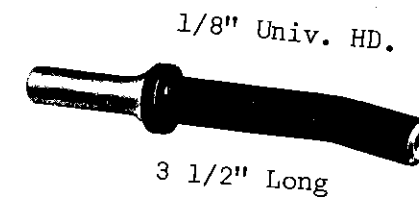


SHEET HOLDERS
(Cleco Fasteners)

The sheet holders listed comprise the most common sizes. The acorn type stem is applied in the work without force. Material thickness range 0" to 1/4". Color coded for easy identification. Use with Sheet Holder Pliers AT508 \$.60 each \$45.00/per bag of 100

| Part No | Fastener Size | Color Code | Drill Size |
|---------|---------------|------------|------------|
| 551M | 3/32" | Cadmium | No. 40 |
| 552M | 1/8" | Copper | No. 30 |
| 553M | 5/32 | Black | No. 20 |
| 554M | 3/16 | Brass | No. 10 |

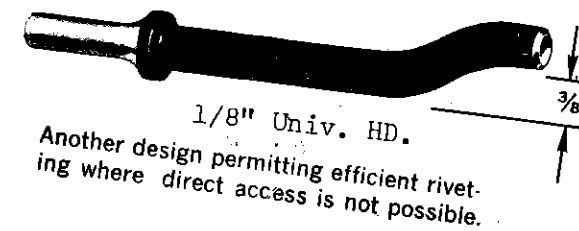
AT101
OFFSET-TYPE



A 10° bend 1" back from the cup allows added clearance when offset riveting is required.

- AT101A3 1/8 AN470 \$3.95

AT105
DOUBLE OFFSET-TYPE



- AT105A 1/8 AN470 \$9.50

HAND RIVET SQUEEZER

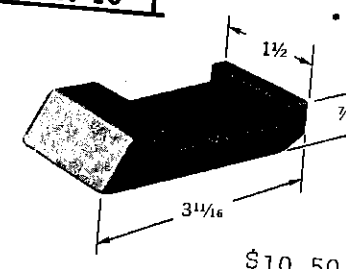
Designed to squeeze 1/2" thru 3/4" rivets. Hardened C yoke. Built for a lifetime of use. 1 1/2" reach x 1 1/4" gap. 13" overall length. Unique adjustable rivet set holder. Others copy it but none equal it.

BRAND NEW!
\$58.00

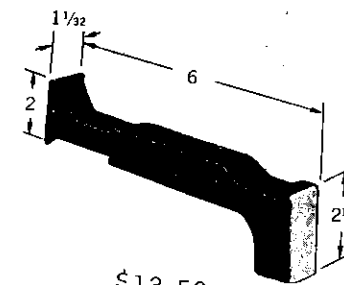
RIVET SQUEEZER SET MIX

6 assorted rivet sets, Universal type 1/2", 3/8", 5/16", 3/16" and 2 flush sets.

BRAND NEW!
DIMPLE SET \$14.95
\$30.00



AT722 1 lb. \$10.50



AT694 2 lbs. \$13.50

AT669 1 1/2 lb. \$13.00

AT-508 SHEET HOLDER PLIERS

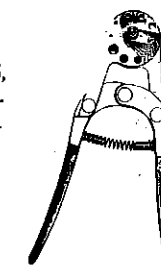
Standard, die cast, Zamak alloy plier, with corrosion-resistant plating. Steel inserts at all points subject to wear. Will grip and actuate all standard sizes of sheet holders.

\$8.35



RIVET CUTTER
AT501R

Designed to quickly and easily cut all AN426, AN430, AN435, AN442, AN456 and AN470 aluminum rivets from 1/16" to 1/4" diameter. It is adjustable for 1/4" length to 3/4" length rivets in increments of 1/16". This complete interchangeability in one tool, by simple adjustment of the spacers, saves valuable production time and reduces inventory costs.



TOOLS

METAL STRETCHER/SHRINKER
BRAND NEW!
\$ 125.00



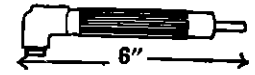
Work and form average metals including 16 gauge. Shrink and stretch angles down to a 2" to 3" radius. Handles angles as wide as 1" and 6" to 8" deep. 45 to 1 leverage provides fast, powerful action. Eliminates costly layout, notching, etc. when forming angles. Bench model.

Heat Treated Ductile Iron.
Will not break. Guaranty.

STRETCHER JAWS \$48.10

RIGHT ANGLE DRILL ATTACHMENT

90° Heavy Duty
(Weight 9 1/2 ozs.)
45° Medium Duty



NEW! \$29.95

CONE JAW CHUCK

3/4" long



Fits into any angle drill with 1/4"-28 threads. Chuck capacity 0 to 1/4". A truly heavy duty chuck but miniature in size (weighs just 2 ozs.).

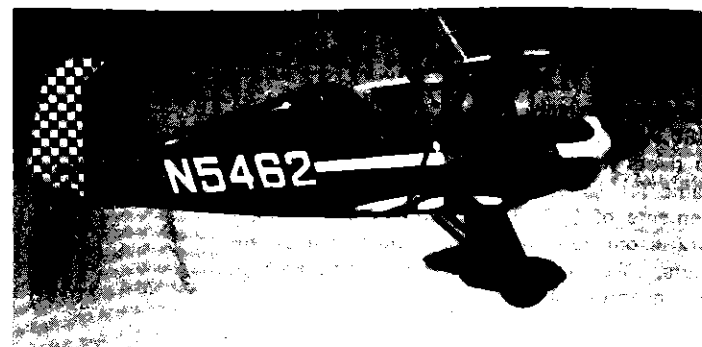

BRAND NEW! \$36.00



WIRE TWISTERS

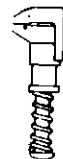
Self returning mechanism for faster action . . . saves labor . . . protects mechanism from damage. Squeeze, press button, and it locks; squeeze again and it unlocks. One-hand operated. Between-the-handles mechanism and tapered jaws permit access to difficult areas. Finely finished cutting edge. Twists and cuts copper, brass, soft stainless and inconel in diameters .010" thru .060". Chrome plated. Meets GGG-W-340a.

\$ 32.00

HOLE DUPLICATORS
Drill Bushing type.
#40, #30, #21. \$6.96

EDGE BRAKER \$6.95



SIDE GRIP FASTENER
\$2.25

THREADED DRILL BITS
BRAND NEW!

EACH \$1.95
Made from high speed steel. 1/4"-28 threads. Comes in sizes #21, #30 or #40.



STOP COUNTERSINKS



AT-401 STANDARD STOP COUNTERSINK
Drive shaft runs in bronze sleeve. Oilite thrust bearing assures accuracy and long life. Hand adjusted with lock collar. Takes up to 7/16" cutters. Use AT418 Cutters and AT416 Pilots (order separately) with this countersink . . .

SURPLUS! \$7.50

REPLACEABLE PILOTS

For use in stop countersinks sizes #21, #30, #40. 1/4"-28 threaded shank.



NEW \$19.95

BRAND NEW

\$3.95

AVIATION SNIP

Sheet metal snip with vinyl grips. Model M-1R cut in left hand direction. Model M-2R cut in right hand direction.

\$7.90



MODEL 3000
\$225.00

POWER _____ 3000 lbs.
RIVET CAPACITY Dural _____ 5/32"
Steel _____ 1/8"
STANDARD YOKE REACH _____ or 2"
AIR HOSE _____ 1/4"
SET TRAVEL _____ 9/16"
RECOMMENDED LINE PRESSURE _____ 90 lbs.
WEIGHT (with standard yoke) _____ 4 1/2 lbs.

Short stroke adjustment standard
Safety approved throttle lever optional

COVERING ACCESSORIES FABRIC & TAPES

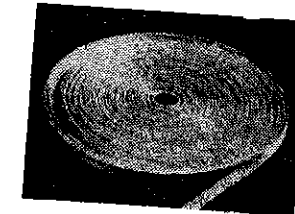
CECONITE COVERING MATERIALS

| | weight | width | price |
|---------------|---------|-------|------------|
| Ceconite 101 | 3.7 oz. | 50" | \$13.65/yd |
| Ceconite 101 | 3.7 oz. | 66" | \$ 4.75/yd |
| NON CERTIFIED | 3.7 oz. | 66" | \$ 2.85/yd |
| DACRON | 3.7 oz. | 50" | \$ 2.15/yd |
| FABRIC | 2.7 oz. | 66" | \$ 2.47/yd |
| | 2.7 oz. | 50" | \$ 1.95/yd |
| | 1.8 oz. | 50" | \$ 2.08/yd |

| | | |
|-----------------------|---------------|---------|
| Hand Sewing Thread | 200 yd. spool | \$ 2.70 |
| Machine Sewing Thread | 600 yd. spool | \$ 3.70 |
| SURE Seam Cement | Quart | \$ 5.08 |
| SURE Seam Cement | Gallon | \$14.17 |

Reinforcing Tape-Pressure Sensitive

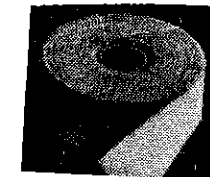
| Width | 60 yds Roll | Price |
|-------|-------------|--------|
| 1/4" | | \$2.50 |
| 3/8" | | \$3.20 |
| 1/2" | | \$3.90 |



DACRON SURFACE TAPE 2.7 oz.

Pinked edge Straight edge

| width | 25yds | 50yds |
|--------|---------|---------|
| 1" | \$ 2.20 | \$ 4.05 |
| 1 1/2" | 3.20 | 5.90 |
| 2" | 4.05 | 7.45 |
| 3" | 6.05 | 11.20 |
| 4" | 7.70 | 14.30 |
| 6" | 11.05 | 20.45 |



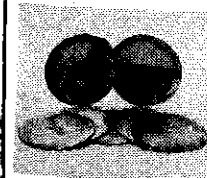
CECONITE SURFACE TAPE
Straight or pinked
(please specify)

| Width | 50 yds roll |
|--------|-------------|
| 1" | \$5.00 |
| 1 1/2" | 6.50 |
| 2" | 8.00 |
| 3" | 11.50 |
| 4" | 15.40 |
| 6" | 21.00 |

RIB LACING CORD

Round-CECONITE- 1/2 lbs. \$9.80

Flat-for smooth finish
500 yds roll \$7.50



| | |
|-----------------------------|--------|
| Inspection Plate | \$1.14 |
| Inspection Ring | .15 |
| Drain Grommets | .03 |
| Sea Plane Grommet (suction) | .08 |



SEWING NEEDLES

| Size | Curved | Straight |
|------|--------|----------|
| 2" | .28 | |
| 3" | .34 | |
| 4" | .40 | |
| 6" | .53 | .38 |
| 8" | | .44 |
| 10" | | .54 |
| 12" | | .85 |
| 14" | | .98 |

DOPE-THINNER-SOLVENTS

| | Qt. | Gal. | /gal. in 5 gal. can |
|-----------------------|--------|--------|------------------------|
| NITRATE NON-TAUTENING | \$2.92 | \$9.75 | \$8.67 |
| NITRATE THINNER | 2.50 | 7.17 | 5.83 |
| NITRATE RETARDER | 3.27 | 10.83 | 9.58 |
| NITRATE REJUVENATOR | 2.68 | 8.25 | 6.92 |

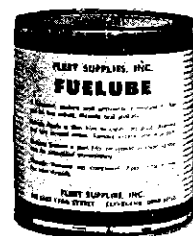
| | | | |
|------------------------|------|-------|-------|
| BUTYRATE NON-TAUTENING | 3.75 | 12.92 | 11.83 |
| BUTYRATE THINNER | 2.67 | 8.00 | 6.75 |
| BUTYRATE RETARDER | 3.45 | 11.00 | 9.75 |
| BUTYRATE REJUVENATOR | 2.92 | 9.00 | 7.67 |

| | | | |
|---|------|------|------|
| ACETONE | 2.50 | 7.50 | 6.25 |
| M.E.K. | 2.83 | 8.58 | 7.33 |
| TOLUENE SUBSTITUTE (Zinc Chromate Reducer) | 2.25 | 6.17 | 4.92 |

| | |
|-----------------|-----------|
| ALUMINUM PASTE | 4.50/lbs |
| ALUMINUM POWDER | 10.30/lbs |

| BURYRATE COLORS - NON TAUTENING | | | |
|---------------------------------|--------|---------|------------------------|
| | Qt. | Gal. | /gal. in 5 gal. can |
| WHITE | \$5.00 | \$18.08 | \$17.08 |
| DAYTONA WHITE | 5.00 | 18.08 | 17.08 |
| LEMON YELLOW | 5.50 | 20.00 | 19.00 |
| CUB YELLOW | 5.17 | 18.75 | 17.67 |
| LOCKHAVEN YELLOW | 4.92 | 17.83 | 16.83 |
| CRUISER ORANGE | 5.17 | 18.58 | 17.58 |
| TENNESSEE RED | 6.67 | 24.67 | 23.92 |
| INSIGNIA RED | 6.67 | 24.67 | 23.92 |
| BAHAMA BLUE | 4.92 | 17.75 | 16.67 |
| MIAMI BLUE | 5.00 | 18.08 | 17.25 |
| BLACK | 5.25 | 19.08 | 18.00 |

FUELUBE



FUELUBE (MIL-L-6032, Amend. 1)
Lubricant for fuel and oil line valves; especially for aromatic and high octane fuels. Also suitable as gasket paste. Good as anti-seize for threads; will not gum or dry out. Temp. range -10 to plus 300 degrees F.
Packaged 1 lb. cans

PRICE \$12.50

HYDRAULIC FLUID

MIL-H-5606c91. Petroleum base. Use for the aircraft brake and hydraulic systems with synthetic rubber seals.
\$2.75/qt.
\$7.30/gal.

LPS NO. 2 METAL PROTECTOR

\$3.40

LPS NO. 3 METAL PROTECTOR

\$3.55

WD 40 PENETRANT LUBRICANT

\$2.60

TRI-FLON

Penetrates and lubricates. Multi-purpose grease with teflon.
\$6.95

LIQUI-LUBE by Uni-Lab Corp.

Lubricant - penetrant - rust preventive.
Sets up to grease in 15 min.
14 oz. spray can \$10.95

LUBRIPLATE

Grease type multi-purpose lubricant. Provides wear-resisting film on working surfaces, with protection against rust and corrosion. Unaffected by water or steam. Recommended for controllable pitch props, wheel and mag-neto bearings, general greasing cup or pressure system

can \$4.22

GRIPTRID black - LIGHT WEIGHT, NON-SLIP FLOORING AND PROTECTIVE COATING FOR METAL, WOOD OR CONCRETE.

\$10.38/qt

MET ALL-
1 lbs -----\$4.49
2 lbs -----\$8.00



ONE DAY
MY SHIP WILL
COME IN,
AND WITH MY LUCK
I'LL PROBABLY BE
AT THE AIRPORT...



AVIATION QUALITY INSTANT SPRAY PAINT PRODUCTS

ENAMELS - LACQUERS - GOV'T SPECIFICATION PRIMERS - SPECIALTY ITEMS
FOR AIRCRAFT USE & MAINTENANCE, INDUSTRY ENDORSED AND APPROVED



PRIMERS

| part No. | Color | Price |
|----------|---|--------|
| 7-6889* | Zinc Chromate Yellow Primer (MIL-P-6889A, Type 1 & MIL-P-8585A) | \$4.40 |
| 7-6889A* | Zinc Chromate Green Primer (MIL-P-6889A, Type 1 & MIL-P-8585A) | |

* COMMERCIAL/INDUSTRIAL USE ONLY. NOT RECOMMENDED FOR CONSUMER USE.

LACQUERS

| part No. | Color | Price |
|----------|--|--------|
| 9-19 | Clear | \$4.10 |
| 9-24 | Flat Black (Federal Spec. TT-L-20 MIL-L-6805A) | |
| 9-177 | Black | |

ENAMEL

| part No. | Color | price |
|----------|----------------------|--------|
| 10-3725 | Wrought Iron Black | \$3.65 |
| 10-101 | Black Wrinkle Enamel | \$4.95 |

ENGINE

ENAMEL

| part No. | Color | price |
|----------|------------------------|--------|
| 11-7 | Black Gloss | \$3.90 |
| 11-8 | High Heat Aluminum | \$4.70 |
| 11-14 | Olds. Continental Gold | |

ULTRA-HIGH temperature paints

| part No. | Color | Price |
|----------|---------------|--------|
| 13-1 | White | \$5.35 |
| 13-8 | Racing Silver | |



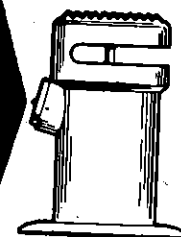
20-131 Tempo Battery Protector

Protects your storage battery investment from power draining corrosion. It has an acid and alkali resistant resin which will insulate, seal, and protect the battery. Restores original black finish appearance. For use on battery cases, battery boxes, and hold downs. Equally effective for any storage batteries for marine, industrial, and aircraft uses.

| Part No. | Size | Wt. | Pkg. | Pkg. Wt. |
|----------|--------|--------|------|----------|
| 20-131 | 16 oz. | 13 oz. | 12 | 14 lb. |

\$3.75

1. New - Exclusive, adjustable Tempo FANSPRAY VALVE that lets you "Paint Like a Pro"

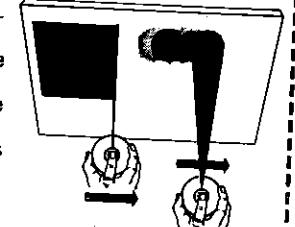


2 BIG NEW FEATURES

LOOK AT THESE EXCLUSIVE TEMPO FEATURES!

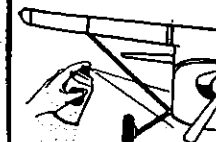
- Produces a Fanspray Pattern like a precision mechanical spraygun
- Reduces overspray—less waste—more paint on the surface
- More uniform and even distribution of paint on the surface—no runs, no sags
- The FANSPRAY'S extra width pattern evenly coats about three times the area with each pass as compared to an ordinary spray can valve.
- Permits closer approach to work surface—4 to 6 inches away
- Ideal for larger surface painting—faster, easier, smoother, better than ever!

VERTICAL VIEW SHOWS SUPERIORITY OF FANSPRAY PATTERN OVER OLD WAY



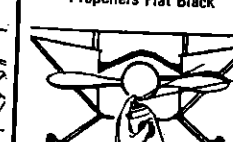
NOTE "FLAT" FANSPRAY VS. "ROUND" PATTERN

Prevent Corrosion



#E6889 U. S. Govt. Spec. Zinc Chromate Primer—Yellow

Propellers Flat Black



#E3725 Flat Black Enamel

Spray Instrument Panel



#24 Flat Black Lacquer

Stenciling "No Step", etc.



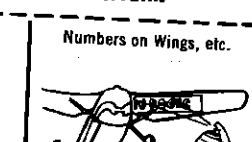
#E-177 Black Lacquer

For Fabric & Metal



#16 Dull Aluminum Lacquer

Numbers on Wings, etc.



#E1770 Gloss Black Enamel

STOLP STARDUSTER CORPORATION

Add packing charge (Min. \$.50, Max. \$10.00).



FULLER-O'BRIEN PRODUCTS



SPARKLING NEW
Starlet
SA 500



OUTSTANDING
Starduster Too
SA 300



POPULAR
Starduster
SA 100



MIRA PLATE EPOXY COATING*

| | 1 GAL. | QT. | PT. |
|---------------------------|---------|--------|------|
| HI-LUSTRE FINISH | | | |
| 617-00 WHITE | \$20.59 | \$6.53 | |
| 317-02 BLACK | 34.22 | 11.49 | |
| 617-03 COMMODORE BLUE | | | |
| 317-05 RIVIERA GRAY | 39.88 | 6.36 | |
| 617-08 BEACON YELLOW | 54.22 | | |
| 617-11 HOLIDAY RED | 54.17 | | |
| 317-12 FLEET BLUE | 56.18 | | |
| 317-14 REEF BROWN | 39.76 | | |
| 683-00 HI-LUSTRE HARDENER | 23.44 | 7.64 | 4.43 |
| 681-00 EPOXY THINNER | 13.41 | 4.31 | 4.43 |

* NOTE: For Mira-Plate only, the size indicates the size of the can and not necessarily what is in the can. All Hardener, Block Filler and Thinner cans are filled completely. All other cans are half-filled. The price stated is for the can size indicated and the appropriate amount of the material in the can.

TECHNICAL COATINGS

ZINC CHROMATE
SLUSHING COMPOUND - FOR GAS TANKS

| | 1 GAL. | QT. |
|--|---------|--------|
| | \$29.50 | \$9.42 |
| | | 9.40 |

FULLER PAINTS (2 to 1 mixture)

| | gal. |
|------------------------------------|---------|
| Metal Etching Primer 321-23(black) | \$19.10 |
| 321-26 (Grey) | 19.20 |
| Catalist Component 381-16 | 11.20 |

FULLER PRODUCTS

8509 SLUSHING COMPOUND
FULLER TL-652

A Non-drying fluid to seal pinhole leaks around rivets and prevent corrosion in gasoline tanks.

1 quart can, Each..... \$9.40



STOLP STARDUSTER CORPORATION

MIRA-PLATE

IS A CHEMICALLY CURING, TWO-COMPONENT POLYAMIDE EPOXY COATING THAT WILL FAR OUTLAST ORDINARY PAINT. MIRA-PLATE HI-LUSTRE IS IDEALLY SUITED FOR USE ON WOOD, METAL, OR HARD PLASTIC. EXCELLENT RESISTANCE TO ALKALI, WATER, RUST, MOST CHEMICALS, SOLVENTS AND TO SEVERE ABRASION.

MIXING: MIRA-PLATE HI-LUSTRE IS A TWO-COMPONENT PRODUCT. EQUAL PARTS OF MIRA-PLATE HI-LUSTRE STANDARD COLOR AND HI-LUSTRE HARDENER MUST BE MIXED TOGETHER BEFORE USE. MIX NO MORE MATERIAL THAN CAN BE USED IN 8 HOURS. ALLOW ADMIXED MATERIAL TO STAND ONE HOUR BEFORE THINNING OR APPLICATION.

USE MIRA-PLATE EPOXY THINNER ONLY.

POLY-FIBER AIRCRAFT COVERING PROCESS
A Complete System Of New Modern Materials
Developed And Manufactured Especially For
Fabric Covered Aircraft

- WILL NOT CRACK OR PEEL IN NORMAL SERVICE.
- F.A.A. APPROVED MATERIALS AND METHODS.
- OUTSTANDING CHEMICAL RESISTANCE.
- NON-BLEEDING COLORS.

- WILL NOT SUPPORT COMBUSTION.
- NON-OXIDIZING FINISHES.
- ALL POPULAR AIRCRAFT COLORS AVAILABLE.
- MINIMUM INSTALLATION TIME.

Poly-Fiber[®] Covering Materials:

- POLY-BRUSH, used for the first two brush or spray coats and for attaching the finishing tapes and reinforcement patches.
- POLY-SPRAY, for the spray application of the third to the sixth coat. Contains the correct proportions of aluminum pigment to block sunlight and fill the fabric weave.
- POLY-TONE[®], pigmented finishes for fabric and metal components.
- POLY-TAK, an improved fabric cement used to attach fabric to the airframe and cemented seams.
- POLY-DOPE[®] REDUCER, for viscosity and drying control of POLY-BRUSH, POLY-SPRAY, and POLY-TONE.
- DACRON FINISHING TAPES, for fabric seam reinforcement.
- ADHESIVE FILAMENT TAPES, for rib lacing reinforcement.
- DACRON THREADS, for sewing envelopes, blankets and wing rib lacing.



LONG LIFE POLYESTER (DACRON) FABRIC IN THREE WEIGHTS:

- Style D-101A, 3.7 oz. per sq. yd. Average strength 130 lbs. per inch width. A special heavy duty 53 x53 (square) weave, normally used for the longest life expectancy.
- Style D-103, 2.7 oz. per sq. yd. Average strength 95 lbs. per inch width. A finer weave, medium weight fabric, 15 lbs. stronger than Grade "A" cotton fabric. Used when a minimum covering weight and very smooth finish is desired.
- Style D-104, 1.7 oz. per sq. yd. Average strength 60 lbs. per inch width. A very fine weave, light weight fabric used over plywood surfaces.

COVERAGE

One gallon POLY-BRUSH will cover approximately 150 square feet with one brush coat or one spray cross coat. One gallon POLY-SPRAY will cover approximately 200 square feet with one good cross coat. One gallon of POLY-TONE will cover approximately 200 square feet with one good cross coat. These amounts will vary depending on the brushing and spraying technique of the individual mechanic.

MATERIAL ESTIMATES

Guide for materials needed to cover the average aircraft the size and configuration of the J-2, J-3, J-4, J-5, L-2, L-3, PA-11, PA-12, PA-15, PA-18, PA-25. Maule, Funk, Aeronca Chief, Aeronca Champion, Citabria, Porterfield, Interstate Cadet, Taylorcraft, Rearwin, etc.

| | | | |
|------------|----------------------------|---|----------------------------|
| 45 yards | D-101A, 67" Fabric | 2 rolls | 1/2" wide reinforcing tape |
| 10 gallons | POLY-BRUSH | 1 gallon | POLY-TAK Fabric Cement |
| 13 gallons | POLY-SPRAY | 24 each | Inspection Rings |
| 7 rolls | 2" Dacron finishing tape | 1 box | Drain Grommets (100) |
| * 1 spool | Rib lacing cord (1/2 lb.) | **1 gallon | POLY-DOPE Reducer |
| 13 gallons | POLY-TONE Pigmented Finish | ** (Increase to 4 gallons if POLY-BRUSH to be sprayed.) | |

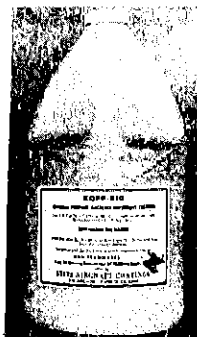
If the fabric material is to be sewn into a blanket, add a 4 oz. spool of Dacron sewing thread.
* Delete Rib Lacing for those model aircraft that use wire clips or screws instead of rib lacing cord.
To determine the exact amount of material needed for any component or complete airplane, measure the square foot area to be covered and use the gallon per square foot schedule.



STITS PAINT REMOVER #5

A very strong, non-flammable, non-caustic paint stripper formulated to safely remove all two-part or catalyzed epoxy & poly-urethane paint & primers in addition to the less resistant air-drying enamels, paint, primers, varnish & lacquers. Wash off & neutralize with water. Complete instructions printed on label.

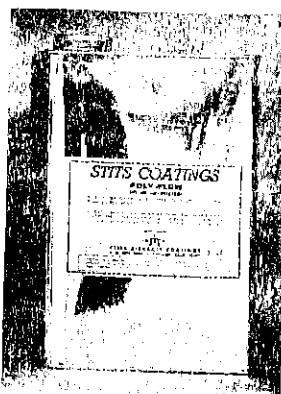
**XOFF-310
A GENERAL PURPOSE ALKALINE
DETERGENT CLEANER**



Concentrated solution - dilute as needed up to 32 parts water. Recommended as an alkaline metal surface cleaner to remove all oil, grease & silicone in preparation for etching. A very effective vinyl upholstery and interior cabin or car cleaner. Dilute 1 cup to 1 gallon water, or stronger for engine and cowl spray wash.

An excellent extra strength household cleaner. Use on sinks, stoves, walls, cabinets, floors, furniture, etc. Easily removes all wax, oil, grease, crayon and pencil marks, dirt and kitchen stains.

XOFF-310 is not harsh on hands. Has a pleasant lemon fragrance. Apply with sponge, brush, or spray.



**POLY-FLOW RETARDER
BR-8600**

Use in POLY-TONE, POLY-BRUSH, POLY-SPRAY, #P-2000 Chromate Metal Primer and AG-THANE.

A very rich, slow-drying solvent blend to be added as needed to prevent blushing & improve flow-out & gloss under conditions of high humidity and/or high temperatures (average 1 to 4 liquid oz. per gallon).

**PAINT CLEANING SOLVENT
C-2210**



A mild solvent blend formulated to remove oil, silicone, wax and other contaminants from all painted or primed surfaces without biting into or damaging the coating.

Also used to remove tape gum from painted surfaces and acrylic windshield materials without damage. Many other uses when a mild, effective solvent surface cleaner is required. Complete instructions printed on label.

STANDARD AIRCRAFT COLORS AVAILABLE

When ordering indicate type of coating by adding "PT" in front of the number for POLY-TONE, "AG" for AG-THANE, "AO" for AERO-THANE, and "AL" for ALUMA-THANE. Example: PT-170 is POLY-TONE Bahama Blue, AL-218M is ALUMA-THANE Piper Trainer Blue. "M" after the number identifies the color is a metallic finish (code 7-72). Colors listed progressing from light to darker shades in each group.

| | | | | | |
|------------------|------|----------------------|------|------------------------------|------|
| WHITE | | ORANGE | | BLUE | |
| INSIGNIA WHITE | 105 | OCALA ORANGE | 181 | LAKELAND BLUE | 165 |
| JUNEAU WHITE | 110 | PUMPKIN ORANGE | 182 | LIGHT AQUA | 163 |
| GLACIER WHITE | 117 | CRUISER ORANGE | 180 | PACIFIC BLUE | 167 |
| SIERRA WHITE | 119 | INTERNATIONAL ORANGE | 183 | BEAUMONT BLUE | 315M |
| ROCKFORD WHITE | 112 | RED | | BAHAMA BLUE | 170 |
| TROPIC WHITE | 115 | CHINESE RED | 184 | PIPER TRAINER BLUE | 318M |
| DAYTONA WHITE | 120 | VERMILLION RED | 185 | AN BLUE (True Blue) | 173 |
| CREAM | | CADILLAC RED | 186 | NEWPORT BLUE | 320M |
| SUN VALLEY IVORY | 132 | TENNESSEE RED | 190 | ROYAL BLUE | 323M |
| TUCSON CREAM | 125 | TOREADOR RED | 188 | MIAMI BLUE | 175 |
| DIANA CREAM | 131 | PONTIAC RED | 191 | INSIGNIA BLUE | 176 |
| PIPER IVORY | 130 | SCARLET RED | 330M | GREEN | |
| YELLOW | | SANTA FE RED | 195 | TAMPICO GREEN | 148 |
| YUKON YELLOW | 133 | BOSTON MAROON | 196 | ORLANDO GREEN | 149 |
| SUN SPRAY YELLOW | 137 | BROWN | | CHAMPION GREEN | 150 |
| DALLAS YELLOW | 134 | MOCHA BROWN | 200 | JADE GREEN | 310M |
| CREAM YELLOW | 135 | BERMUDA TAN | 205 | FERN GREEN | 152 |
| LEMON YELLOW | 136 | PHOENIX TAN | 206 | TAMPA GREEN | 312M |
| AN YELLOW | 138 | HICKORY BROWN | 207 | MONTEGO GREEN | 154 |
| ORANGE YELLOW | 140 | DENVER BROWN | 340M | SACRAMENTO GREEN | 155 |
| CUB YELLOW | 143 | GREY | | PORTLAND GREEN | 156 |
| PIPER YELLOW | 144 | NEVADA SILVER | 220M | FOREST GREEN | 160 |
| LOCKHAVEN YELLOW | 145 | NORFOLK GREY | 209 | JADE MIST GREEN | 314M |
| GOLD | | POLAR GREY | 210 | CAMOUFLAGE (Military) | |
| CALIFORNIA GOLD | 303M | CORVETTE GREY | 211 | OAK GREEN | 212 |
| RENO GOLD | 301M | AG CAT GREY | 213 | CANADIAN OLIVE DRAB | 161 |
| | | BLACK | | OLIVE DRAB | 208 |
| | | DAKOTA BLACK | 215 | | |

**STITS ALUMA-THANE ENAMEL
UE-600**



A premium quality, tough, hard, high gloss two-part poly-urethane enamel formulated especially for aircraft metal surfaces. Provides excellent solvent, chemical, abrasion and weather resistance.

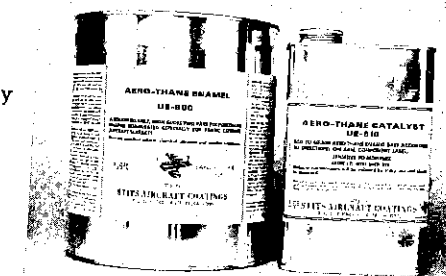
Recommended as a hard, high gloss finish over all suitably primed metal surfaces. Like other brands of urethane metal finishes, ALUMA-THANE is not recommended for fabric surfaces. Add 1 part UE-610 catalyst to 3 parts UE-600 base, (1 qt. to 3/4 gal.) then add 10 to 20% UE-820 reducer to the catalyzed enamel to reduce to spray viscosity. When working in temperatures less than 65° F. add 1 to 2 liquid ounces of UX-825 accelerator per gallon of catalyzed enamel. UR-826 retarder may be added at 1 to 6 liquid ounces per gallon catalyzed enamel when necessary to delay surface drying and provide smooth flow out in hot desert climate, or eliminate blushing in very humid hot climate.

ALUMA-THANE enamel is applied with a spray gun in the same manner as conventional enamel finish. Apply a light, wet tack coat and follow with two medium cross coats at 10 to 20 minute intervals. Dries dust free in 2 to 3 hours. Enamel will cover approximately 225 square feet with one medium cross coat. Complete instructions printed on label. Instruction brochure available on request.

Available in all standard Stits colors. ALUMA-THANE is designated by adding the letters "AL" in front of the color number. Example: AL-191 is Pontiac Red. AL-320M is Newport Blue (Metallic). See color list.

- 1 Quart Kit (3/4 filled qt. base & 1/2 pt. catalyst)
- 1 Gallon Kit (3/4 filled gal. base & 1 qt. catalyst)

**STITS AERO-THANE ENAMEL
UE-800**



A tough, flexible, high gloss two-part poly-urethane enamel formulated especially for fabric covered aircraft surfaces. Provides excellent solvent, chemical, abrasion and weather resistance.

Recommended as a premium quality, high gloss fabric finish over Stits POLY-FIBER Covering Materials, and all primed metal components of fabric covered aircraft. May also be used to refinish suitably rejuvenated nitrate or butyrate dope fabric surfaces.

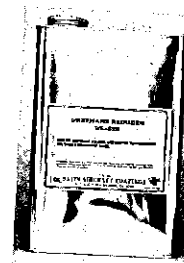
Add 1 part UE-810 catalyst to 3 parts UE-800 base, (1 qt. to 3/4 gal.), then add 10 to 20% UE-820 reducer to the catalyzed enamel to reduce to spray viscosity. When working in temperatures less than 65° F. add 1 to 4 liquid ounces of UX-825 accelerator per gallon of catalyzed enamel. UR-826 retarder may be added at 1 to 6 liquid ounces per gallon catalyzed enamel when necessary to delay surface drying and provide smooth flow out in hot desert climate, or eliminate blushing in very humid hot climate.

AERO-THANE may be used over ALUMA-THANE, or vice versa, for trim colors on metal components. AERO-THANE enamel is applied with a spray gun in the same manner as conventional enamel finish. Apply a light, wet tack coat and follow with two medium cross coats at 10 to 20 minute intervals. Dries dust free in 2 to 3 hours. Enamel will cover approximately 225 square feet with one medium cross coat. Complete instructions printed on label. Instruction brochure available on request.

Available in all standard Stits colors. AERO-THANE is designated by adding the letters "AO" in front of the color number. Example: AO-191 is Pontiac Red. AO-320M is Newport Blue (Metallic). See color list on page 3.

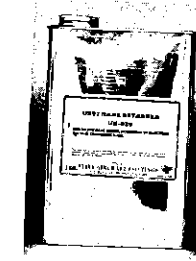
- 1 Quart Kit (3/4 filled qt. base & 1/2 pt. catalyst)
- 1 Gallon Kit (3/4 filled gal. base & 1 qt. catalyst)

**URETHANE
REDUCER
UE-820**



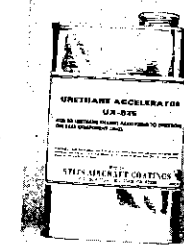
Use in UE-600 ALUMA-THANE & UE-800 AERO-THANE enamels according to directions on labels.

**URETHANE
RETARDER
UR-826**



Use in UE-600 ALUMA-THANE & UE-800 AERO-THANE enamels according to directions on labels.

**URETHANE
ACCELERATOR
UX-825**



Use in UE-600 ALUMA-THANE & UE-800 AERO-THANE enamels according to directions on labels.

| | LIST PRICE | | |
|--|------------|---------|----------|
| | Qts. | Gal. | 5 Gal. |
| POLY-BRUSH | \$7.30 | \$24.02 | \$111.55 |
| POLY-SPRAY | 7.46 | 24.62 | 111.85 |
| POLY-DOPE Reducer R 65-75 & RR 8500 | 3.41 | 10.34 | 45.95 |
| POLY-TAK Cement | 8.56 | 29.15 | ----- |
| POLY-TONE Finish (Except Blue, Green & Red Shades) | 9.46 | 32.93 | 156.40 |
| POLY-TONE Finish (Blue & Green Shades) | 11.40 | 40.40 | 193.70 |
| POLY-TONE Finish (Red Shades 185 thru 195) | 15.75 | 57.85 | 280.95 |



| REINFORCING TAPE (Adhesive Filament, 60 Yd. Rolls) | | POLY-FIBER COVERING PROCEDURE MANUAL Furnished free with order. | POLY-FIBER DACRON FABRIC | | | |
|---|------------|---|--------------------------|-----------------|-------------------|---------------|
| Width | List Price | | Style | Width Inches | Weight Sq. Yd. | List Price |
| 1/4" | \$2.41 | | D-101-50 | 49-50 | 3.7 oz. | \$3.60 |
| 3/8" | 3.07 | | D-101-67 | 66-67 | 3.7 oz. | 5.15 |
| 1/2" | 3.76 | D-103-50 | 49-50 | 2.7 oz. | 4.06 | |
| | | D-103-67 | 66-67 | 2.7 oz. | 4.59 | |
| | | D-104-51 | 50-51 | 2.7 oz. | 3.96 | |

| DACRON THREADS | | List Price | DACRON FINISHING TAPE 50 Yard Rolls | | |
|---|--|------------|---|------------|--------|
| RIB LACING CORD, Heavy Duty Dacron, 60 Lbs. strength .043 Dia. 50 Yd. Spool | | \$11.00 | Bias Cut Tape For Compound Curves Straight Edge (45°) | | |
| RIB LACING CORD, Standard Dacron, 40 Lbs. strength .030 Dia. 500 Yd. Spool | | 11.00 | Straight Edge | | |
| RIB LACING CORD, Flat Dacron .012 x .080, 50 Lbs. strength, 500 Yd. Spool | | 11.88 | Roll | List Price | |
| HAND SEWING THREAD Dacron, 1/2 Lb. Spool | | 17.55 | 1" | \$4.04 | \$6.03 |
| MACHINE SEWING THREAD Dacron, 4 oz. Spool | | 7.29 | 1 1/2" | 6.17 | 9.06 |
| | | | 2" | 8.25 | 12.87 |
| | | | 2 1/2" | 10.42 | 15.07 |
| | | | 3" | 12.91 | 18.66 |
| | | | 4" | 16.76 | 25.26 |

| | | |
|-------------------------------|-------------|---------------------------|
| POLY-DOPE Rejuvenator RJ-1200 | Qts. \$5.37 | Gal. \$19.18 89.10 (5) |
|-------------------------------|-------------|---------------------------|

Page 4

| | | |
|---|-------|-------|
| AERO-THANE Enamel Kit (Except Blue, Green & Red Shades) | 16.79 | 56.32 |
| AERO-THANE Enamel Kit (Blue & Green Shades) | 17.71 | 60.02 |
| AERO-THANE Enamel Kit (Red Shades 185 thru 195) | 22.88 | 74.62 |

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| | | |
|---|--------------|-------|
| ALUMA-THANE Enamel Kit (Except Blue, Green & Red Shades) | 16.79 | 56.32 |
| ALUMA-THANE Enamel Kit (Blue & Green Shades) | 17.71 | 60.02 |
| ALUMA-THANE Enamel Kit (Red Shades 185 thru 195) | 22.88 | 74.62 |
| AERO-THANE & ALUMA-THANE Catalyst U-865 (Included in Kit) | 5.26 1/2 pt. | ----- |
| Replaces UV-560, UE-610 & UE-810 | 14.52 qt. | ----- |

Page 6

| | | |
|------------------------------------|----------|-------|
| AERO-THANE Clear Finish Kit AO-100 | 14.06 | 46.29 |
| URETHANE Reducer UE-820 | 3.81 | 12.14 |
| URETHANE Retarder UR-826 | 4.62 | 15.44 |
| URETHANE Accelerator UX-825 | 4.36 pt. | ----- |

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| | | |
|---------------------------------------|----------|-------|
| EPOXY PRIMER EP-420 (Green or Yellow) | 10.14 | 36.26 |
| EPOXY PRIMER Catalyst EP-430 | 4.53 pt. | ----- |
| | 8.47 qt. | ----- |
| EPOXY VARNISH EV-400 | 9.90 | 35.79 |
| EPOXY VARNISH Catalyst EV-410 | 5.08 pt. | ----- |
| | 8.84 qt. | ----- |

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| | | |
|--|-----------|-------|
| URETHANE VARNISH UV-550 | 8.32 | 29.00 |
| URETHANE VARNISH Catalyst U-865 (Replaces UV-560) | 8.03 pt. | ----- |
| | 14.52 qt. | ----- |
| C-2200 METL-SOL Metal Cleaner | 4.11 | 13.44 |
| C-2210 Paint Surface Cleaner | 2.93 | 8.14 |

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| | | |
|--------------------------|--------------|-------|
| EPOXY Reducer E-500 | 3.67 | 11.13 |
| EPOXY Accelerator EX-501 | 4.11 1/2 pt. | ----- |
| WP-700 Wash Primer | 4.82 | 15.80 |
| WP-710 Acid Component | 2.38 | 7.50 |
| WP-720 Reducer | 2.99 | 8.95 |
| WP-725 Retarder | 3.65 | ----- |

Page 10

| | | |
|--|----------|-------|
| MICRO-PUTTY MP-1100 (25 oz. Kit) | 8.14 | 24.77 |
| MICRO-PUTTY Cream Hardener (1 oz. tube, furnished with kits. Sufficient for 1 Gallon) | 1.44 ea. | ----- |

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| | | |
|--------------------------|------|-------|
| LANEX H-100 Hand Cleaner | 4.29 | 13.27 |
| XOFF-310 Cleaner | 2.47 | 7.26 |
| TUBESEAL | 5.37 | ----- |
| BR-8600 Blush Retarder | 4.66 | 15.07 |
| ESO Engine Oil | 3.85 | 11.35 |
| #5 Paint Stripper | 5.21 | 17.82 |

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| | | |
|-------------------|------|-------|
| E-2300 ALUMA-DYNE | 2.86 | 8.47 |
| E-2310 ALUMA-DYNE | 4.09 | 13.46 |
| E-2311 ALUMA-DYNE | 5.10 | 17.82 |
| E-2390 MAGNA-DYNE | 3.06 | 7.26 |

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

FIBERGLASS

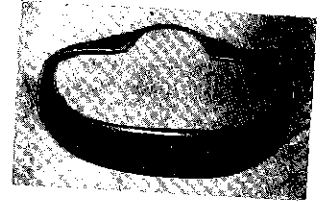
COCKPIT COWLING

Starduster Too
Picked up -\$70.00
Packed -- 80.00



NOSE COWLING

Starduster
Starduster Too
Acroduster Too
Picked up -\$50.00
Packed -- 55.00



TURTLEBACK

V-Star
Starduster
Starduster Too
Starlet
Picked up -\$70.00
Packed -- 75.00



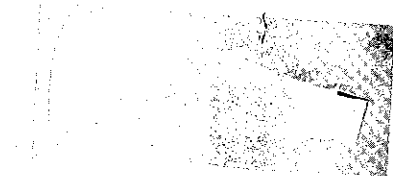
NOSE BOWL

Like the original Starduster One.
Cut out below spinner may be used
for either intake air or oil
cooler. Has starter bump. For
Lycoming engine.
Picked up -\$50.00
Packed -- 55.00



TURTLEBACK

Acroduster Too
Picked up -\$70.00
Packed -- 75.00



NOSE BOWL

New smooth three hole Nose Bowl.
It has been used on our Acrodusters
for several years, and we prefer
it to the more traditional open
bowl, sported by most Stardusters.
Reasons are (1) Stronger because of
center bracing. (2) Less drag.
(Width 35")
Picked up -\$50.00
Packed -- 55.00



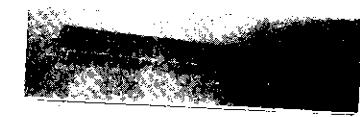
WHEEL PANTS

5.00 x 5
6.00 x 6
7.00 x 6
Please specify
size.
Picked up -\$75.00
Packed -- 80.00



AILERON SLOTS (Set of 4)

Starduster Too
Picked up -\$35.00
Packed -- 38.00



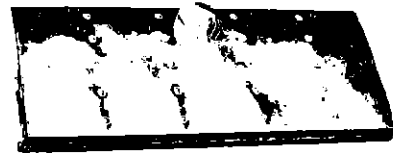
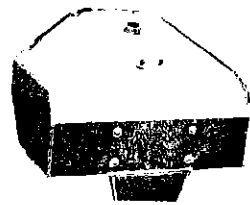
NOSE BOWL

New wider smooth three hole Nose Bowl.
Same as above, except 2" wider.
(Width 37")
Picked up -\$55.00
Packed -- 60.00

FUEL TANKS

GAGES

DRAIN VALVES



| AIRCRAFT TYPE | MAIN STANDARD | MAIN INVERTED | CENTER SECTION |
|------------------------|---------------|---------------|----------------|
| STARDUSTER TOO (SA300) | | \$235.00 | \$185.00 |
| STARLET (SA500) | \$155.00 | | \$175.00 |
| ACRODUSTER TOO (SA750) | | \$235.00 | \$185.00 |
| V-Star (SA900) | \$155.00 | | \$175.00 |
| PITTS | | \$150.00 | |
| GREAT LAKES | | | \$500.00 |
| STEEN SKYBOLT | | \$165.00 | |
| VP-2 | \$185.00 | | |

(All Fuel Tanks are HELI-ARC welded and pressure tested.)

FOR AEROBATIC SHIPS-Direct reading, mechanical Barrel Gage, installed in Fuselage Tanks only -----add----- \$30.00

Rochester Barrel Gage Fits SA300 & SA750 Fus. Tanks. \$22.50

Clear Plastic Tubing for sight gage. 1/4" ID x 7/16" OD ----- .40/ft.

FOR FUEL TANKS WITH SENDING UNIT INSTALLED -----add----- \$30.00

WELD-IN Type Neck, Cap & Gasket ---\$11.50

WELD-IN Type Tank Outlets 1/4" or 3/8" --- \$ 1.90

Finger Strainers-1/4" to 3/8" pipe \$ 5.95 Silver soldered Stainless Steel Mesh.

Flop Tube and Fittings ----- \$20.00

WELD-IN Filler Neck Flange ----- \$ 3.95

WELD-IN Flange for Flop Tube ----- \$ 2.50

BARREL Gage Flange ----- \$ 3.95

Filler Neck-to-Cowl Gasket Fits all Starduster Aircraft---- \$ 1.50

CURTIS DRAIN VALVES

Quick opening brass drain valves for aircraft oil or fuel systems. A slight twist opens valve. No safety wire needed in closed position. FAA approved for use without safety wire. Stainless steel spring holds valve in closed position. Valve has synthetic rubber seal suitable for temperatures up to 225 degrees F.

| PART NO. | THREAD | MATERIAL | SLOT |
|----------|----------|----------|----------|
| CCA-1550 | 1/8" NPT | Brass | Straight |
| CCA-1600 | 1/4" NPT | Brass | Straight |
| CCA-1650 | 3/8" NPT | Brass | Straight |
| CCA-1700 | 1/2" NPT | Brass | Straight |



SAF-AIR QUICK DRAIN VALVES

| PART NUMBER | THREAD SIZE | HOSE END |
|-------------|--------------|----------|
| CAV-110 | 1/8 NPT | (NONE) |
| CAV-160 | 1/4 NPT | (NONE) |
| CAV-170 | 7/16-20 NF-3 | (NONE) |
| CAV-180 | 3/8-24 NF-3 | (NONE) |
| CAV-110 H-4 | 1/8 NPT | 1/4" |
| CAV-160 H-4 | 1/4 NPT | 1/4" |



| Curtiss | | Saf-Air | |
|----------|---------|-----------|--------|
| Part No. | Price | Part No. | Price |
| CCA-1550 | \$ 5.18 | CAV-110 | \$3.75 |
| CCA-1600 | \$ 8.15 | CAV-160 | \$4.15 |
| CCA-1650 | \$13.78 | CAV-170 | \$4.75 |
| CCA-1700 | \$12.58 | CAV-180 | \$4.75 |
| | | CAV-110H4 | \$4.80 |
| | | CAV-160H4 | \$4.95 |



PRICES IN THIS CATALOG, SUBJECT TO CHANGE WITHOUT NOTICE

OUR PARACHUTE WILL LET YOU DOWN, BUT GENTLY



CANOPY
THOROUGHLY TESTED per FAA TSO-23b. 23' Dia. Very Low porosity.

STYLE

Slim, trim, and good looking. Handsome carrying case. Colors available are RED, GOLD, BLACK, BLUE, & ORANGE. All Chutes have black trim.

DESCENT RATE

16' per second under a 200# load, on a STP day.

HARNES

Vest Type, with Integral Shoulder straps. Will not fall off your shoulders in use.

TO ORDER

Send Height to STOLP STARDUSTER CORP. along with check plus sales tax, if applicable. No Packing charge Your chute will be custom built and shipped out to you within three weeks. Satisfaction guaranteed.

An emergency light weight seat pack parachute with steerable canopy and carrying case. Many claim to have the finest. We present the facts. The decision is yours.

COMFORT Custom made to your torso size. Adjustable chest and leg straps. Extra firm, special hard foam cushion. Very comfortable, and especially well suited for aerobatics.

PACKED PARACHUTE DIMENSIONS

Height-----3"
Width-----16"
Depth-----13"
Weight-----14#

SPECIFY IF BACK PACK IS WANTED

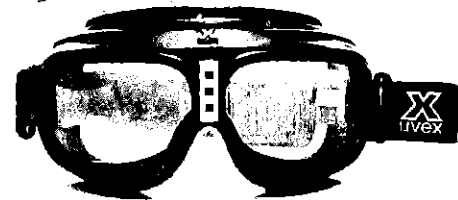
PARACHUTES- Our line of seat pack and back pack parachutes has expanded and improved. The following options are now available.

PRICE LIST FOR PILOTS EMERGENCY EQUIPMENT

Effective 2-1-80

| | | |
|------|--|----------|
| C-50 | Wedge Seat Pack, low speed, non-adjustable | \$560.00 |
| | adjustable | 570.00 |
| C-50 | Wedge Seat Pack, standard category | |
| | non-adjustable | 620.00 |
| | adjustable | 630.00 |
| B-25 | Kit bag for Wedge Seat Pack | 15.00 |
| C-52 | Wedge Back Pack, low speed, non-adjustable | 560.00 |
| | adjustable | 570.00 |
| C-52 | Wedge Back Pack, standard category | |
| | non-adjustable | 620.00 |
| | adjustable | 630.00 |
| B-26 | Kit bag for Wedge Back Pack | 16.00 |
| T-10 | Tempra-foam cushion for C-50 seat pack | |

GOGGLES--THE BEST THAT WE HAVE TRIED--FITS PERFECTLY OVER GLASSES, AND EVEN HAS SPECIAL TEMPLE SLOTS. LAMINATED SAFETY GLASS LENSES--SHATTER PROOF, AND OPTICALLY CORRECT. INDIVIDUAL ADJUSTABLE VENTS FOR DRAFT FREE VENTILATION BUILT INTO NOSE BRIDGE. COMES WITH CLEAR LENS ONLY \$29.95 REPLACEMENT SMOKED LENSES AVAILABLE FOR ONLY \$14.00

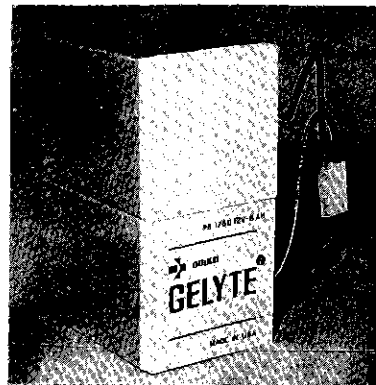


THE WORLDS GREATEST BATTERY FOR ALL YOU UPSIDE DOWN PILOTS. NO LIQUID ACID TO SPILL. TESTED AND APPROVED BY US IN OUR ACRODUSTER TOO. A GEL CELL BATTERY. SAME SIZE AND WEIGHT AS STANDARD 25 AMP HOUR BATTERY, BUT HAS MORE POWER, 30 AMP HOURS. RED PLASTIC CASE MAY BE MOUNTED ON BRACKETS---NO BATTERY BOX IS NEEDED. NO SERVICING REQUIRED--EVER. THE ONLY WAY TO GO.

ONLY \$52.95

packing charge \$3.00

NEW MTG RACK FOR GEL CEL BATTERIES. 4130 STEEL--MAY BE BOLTED TO FIREWALL MOUNT IN ANY ATTITUDE. ONLY \$45.00 FROM STOLP STARDUSTER CORP.



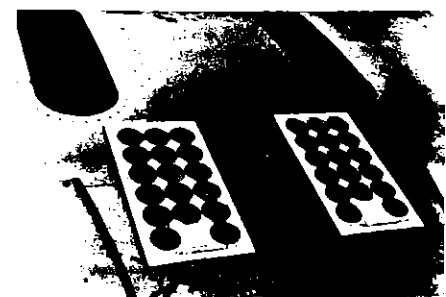
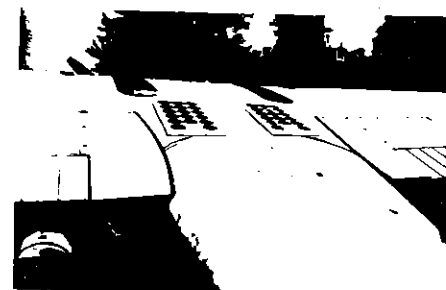
GEL CELL BATTERY

12 volt 6 AMP. \$49.95

"FREE ENERGY" SOLAR PANELS FOR AIRCRAFT

Free Energy Aircraft Panels have been developed by Energy Saving Systems for use on experimental homebuilt aircraft and sailplanes. Easily mounted on a flat area of wing, top of instrument panel, or turtle deck. Once installed, these lightweight panels are maintenance-free and virtually drag-free.

These panels are designed for charging 12 or 14-volt batteries.



| | CHARGE RATE | DIMENSIONS | WEIGHT | PRICE |
|------------|-------------|--------------------------|------------|--------------|
| Model 127A | 500mA | 2 units ea. 8"x15"x3/16" | 16 oz. ea. | \$249.00/pr. |

STOLP STARDUSTER CORPORATION 4301 TWINING RIVERSIDE, CALIFORNIA 92509

NEW NEW NEW

Nav. lights included with Strobe Lights complete package:

- 2 Nav/Strobe lights
- 1 Power Supply
- 1 Installation & hook up kit

only \$425.00

CONNECTOR & SOCKET

- A441 ---- \$.60
- A442 ---- \$.60

MODEL HDA,DF (A413A,HDA,DF-14 or 28)

2, 3 AND 4 STROBE LIGHT POWER SUPPLY APPROVED UNDER STC SA800EA

The Model A413A,HDA-DF power supply is a multiple head power supply with four strobe light outlets.

A Two Light System, Alternate Flashing, will use outlets 1 and 2 (or outlets 3 and 4). This configuration produces 25 joules to each light alternate flashing.

A Two Light System, Simultaneous Flashing, will use outlets 1 and 4 (or outlets 2 and 3). This configuration produces 12 joules of energy to each light.

Three Light System, will use outlets 1 and 4 (or 2 and 3) for simultaneous flashing; 12 joules each; and outlets 2 or 3 (or 1 or 4) for the third light, producing 25 joules to that strobe light head.

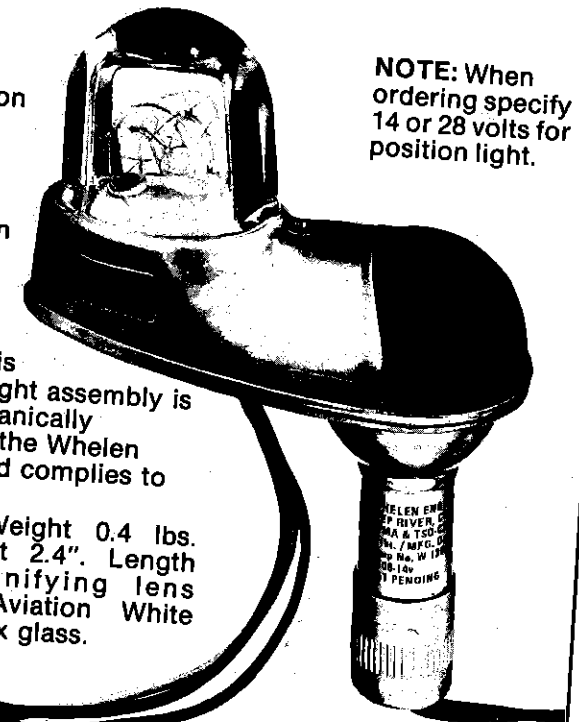
Four Light System, where outlets 1 and 4 flash simultaneously and outlets 2 and 3 flash simultaneously, each pair alternately flashing, receive 12 joules per strobe light head.

SPECIFICATIONS: Power consumption; 14-amps, 7.0 amps. 28-volts, 3.5 amps. Weight 3 lbs. Length 5.50". Width 5.0". Height 3.25". 30 feet cable is included in installation kit for each strobe head assembly.

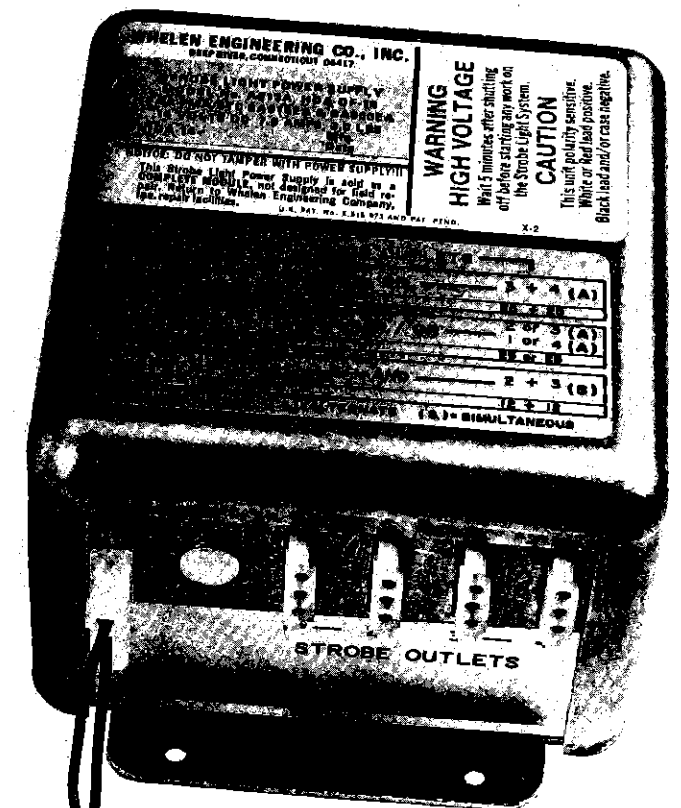
A650-PG AND -PR COMPLETE WINGTIP POSITION AND STROBE LIGHT ASSEMBLY APPROVED UNDER STC SA800EA AND TSO-C30b. -405-

Ready to install on your wingtip with minimum modification to the aircraft's structure. Necessary when modifying Cessna wingtips that utilize a short position light assembly. The flash tube can be replaced without removing the position light from wingtip. This position and strobe light assembly is electrically and mechanically interchangeable with the Whelen A429-PG and -PR, and complies to FAR Part 23.1401.

SPECIFICATIONS: Weight 0.4 lbs. Exposed height 2.4". Length 4.0". Magnifying lens material Aviation White Pyrex glass.

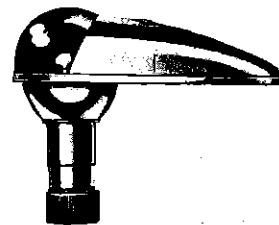


NOTE: When ordering specify 14 or 28 volts for position light.



Whelen Engineering has developed the A413A, HDA-DF (HDA) anti-collision strobe light power supply to replace our HD, HD,T2 and HD,T3 power supplies, which have been discontinued.

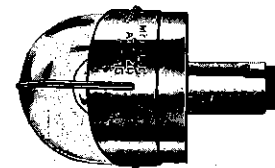
WING GRIMES



A-1285 (Type E)
 Compact, teardrop, streamlined. Minimum penetration . . . requires only a very small mounting pad. Meets TSO-C30b; grounded; single medium output, reflector lamp w/S.C. base; inclined mounting plane and socket permits mounting further forward on the wing; round lens w/shield; wt. 3 oz. For 21CP lamps use No. 1512 & No. 1524; for 32CP use A-7512-12 & A-7512-24

Easily adaptable to Whelen Strobes by replacing aft portion with part supplied with strobe

\$29.95



B-1943 (Type C)
 Mounts on trailing edge of rudder. Single or double contact; 15 candlepower; wt. 5 oz.

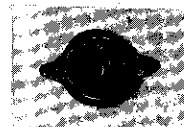
\$39.70

Replacement Lens

for Type A.B.C. **Clear**(A1233A-1) \$9.10
Red (A1233A-2) \$9.10
Green(A1233A-3) \$9.10

for Type S. **Clear**(A4513-1) \$5.00
Type E. Red (A1280-2) 8.30
Green(A1280-3) 14.30

Weld-In Type plate for Tail Light \$7.50
 " " " Wing Light \$7.50

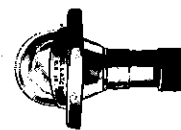


Bulb for Eye Brow Light ---- \$1.21
 Model E ----- 3.85
 Model S(GE93)----- .80
 Single Contact(Tail) .90
 Double Contact(Tail) 1.25

1512(Grimes) 21watt 13V----- 5.10
 A7079B-12(Grimes) 40watt 14V--10.30
 -24 ----- 6.30
 4509 13V 100W -----12.71
 A7512-12 ----- 4.70

LIGHTS

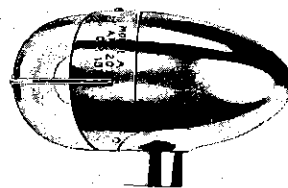
TAIL



A-2064 (Type S)
 For extreme tailcone installation; single medium output lamp w/circular lens; meets TSO-C30b, Type III (clear lens); S.C. base only; fits 1/2" conduit; wt. 3 oz.

Compatible with Model E installation using weld in fitting on rudder.

-12V \$12.90



A-2446 (Type A)
 Mounts on fin post. Fits inside 1" O.D. x .035", or 3/4" O.D. x .028" tubing. Double contact only; 15 candlepower; wt. 6 oz.

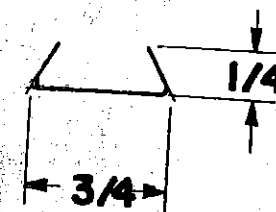
\$38.35

All Grimes lights are NEW.
ALL LIGHTS COMPLETE WITH BULBS

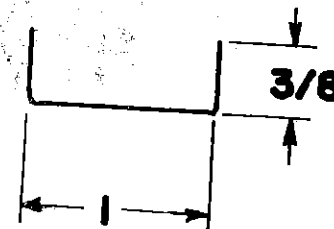
ALL SORTS OF GOOD STUFF



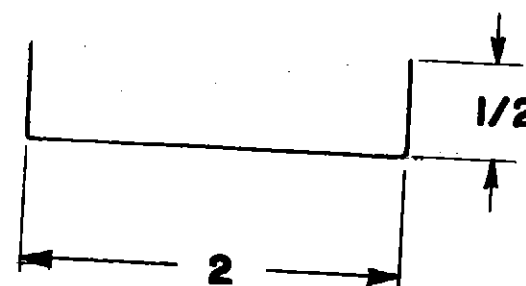
PIPER CHANNEL 3/8x3/8x.020
4130 STEEL
6' LENGTH - \$2.35



4130 CHANNEL - FOR ATTACHING COWLING TO LONGERONS. \$3.00/3 FT



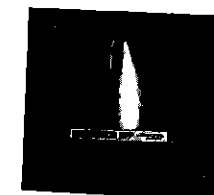
ALUMINUM CHANNEL OR ATTACHING SA500 COWLING ON TOP. SET OF 4 \$12.00



ALUMINUM CHANNEL - FOR ATTACHING SALOO AND SA300 COWLING ON TOP SET OF 4 \$18.95

SPINNER - Spun aluminum, with backing plate, 10" diameter, 14" long. ----- \$38.00

SPINNER - Fiberglass, complete with metal backing & front plates. 14" base diameter, 18" long. For fixed pitch props. ----- \$57.50



HEATER OUTLET- 3 1/8" DIAMETER INLET
1 3/4 x 7 3/4 LOUVERED OUTLET
FULLY ADJUSTABLE-- CHROME FRAME \$9.95

DECALS - Features a shooting star, with name and model number of airplane presented in an artistic fashion. All Decals are white. Size is approximately 7" x 9". Two decals are recommended per airplane. Available for Starduster Too, Starlet, Arrow Too, and the V-Star. \$1.00 each

MORE GOOD STUFF

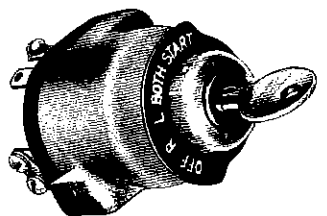
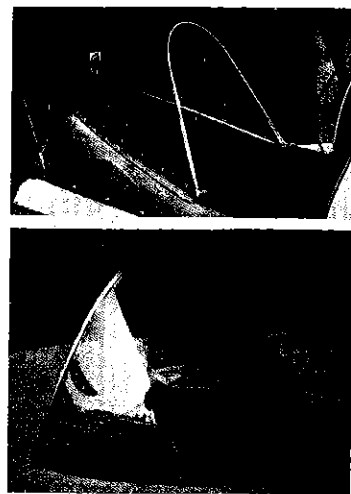
CANOPY KITS - ALL OUR AIRPLANES \$ 220.00

WINDSHIELDS - STRAIGHT FORMED Clear \$34.50
 TINTED OR CLEAR Tinted \$42.50
 PLEASE SPECIFY

NEW DELUXE
 WINDSHIELDS - STRAIGHT FORMED, Clear \$45.00
 CLEAR OR TINTED Tinted ~~\$58.00~~ 36.00

WINDSHIELDS - BUBBLE TYPE
 TINTED OR CLEAR Clear \$59.50
 PLEASE SPECIFY Tinted \$72.50

WINDSHIELD INSTALLATION KIT STRAIGHT \$12.00
 BUBBLE \$10.00



KEY TYPE IGNITION SWITCH WITH PLATE \$18.95-22.25
 KEY TYPE IGNITION SWITCH WITH START AND PLATE \$18.95-22.25
 GERDES

STICK GRIP ----\$1.50



THROTTLE LEVERS NEW SURPLUS \$6.25



Switch Plate ---- \$2.90



"1" STRUT FAIRING - FOR STARDUSTER TOO, STAMPED ALUMINUM.
 Finished & Trimmed. ----- \$195.00/set of 4
 you finish & trim. ----- \$135.00/set of 4

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

WHEELS -- BRAKES -- TIRES -- TUBES

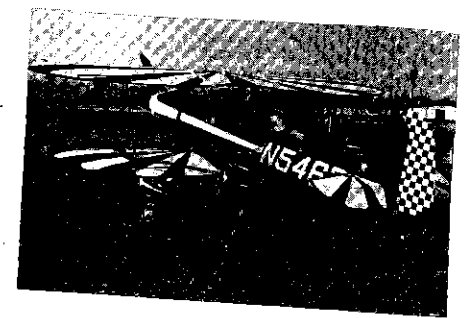
Mc CREARY

FIRST LINE -- TOP QUALITY



TUBES

| SIZE | PRICE |
|----------|---------|
| 5.00 x 5 | \$23.17 |
| 6.00 x 6 | 21.27 |
| 7.00 x 6 | 26.02 |



1/2" Bungie Cord \$.99/ft

| SIZE | FLY RATING | PRICE |
|---------------|------------|---------|
| 5.00 x 5 | 4 | \$33.78 |
| 5.00 x 5 | 6 | \$34.01 |
| 6.00 x 6 | 4 | \$43.39 |
| 6.00 x 6 | 6 | \$46.37 |
| 15 x 6.00 x 6 | 4 | \$43.68 |



WHEEL DUST COVERS
 Fit either Gerdes or Cleveland wheels
 Specify wheel size
 500 X 5 or 600 X 6

\$4.00/ea.

*OTHER SIZES AVAILABLE - WRITE FOR QUOTATION

CESSNA TYPE AXELS & NUTS

Pair 5.00 x 5 Axles and Nuts \$75.00
 Pair 6.00 x 6 Axles and Nuts \$75.00

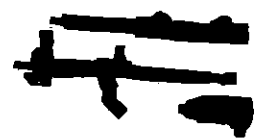
CESSNA TYPE AXELS NUTS

500 x 5 \$5.95/each
 600 x 6 \$6.95/each

CLEVELAND WHEELS & BRAKES

Pair 5.00 X 5 Wheels and Brakes \$225.00
 Pair 6.00 X 6 Wheels and Brakes \$215.00
 Pair 5.00 X 5 Wheels, Brakes, Tires, and Tubes \$314.00
 Pair 6.00 X 6 Wheels, Brakes, Tires, and Tubes \$324.50
 Rivets for Cleveland Wheels & Brake 15¢
 Lining for Cleveland Brake \$3.15
 SPACERS--for 5.00 x 5 ----- \$5.00 each

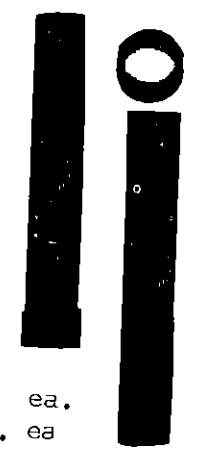
FLANGE - \$ 1.50 / Each
 Pair 1 1/4" Axles and Nuts \$32.00
 Pair 1 1/2" Axles and Nuts \$32.00



Brake Cylinders without Parking Brake \$ 3.00 / Each
 Brake Cylinders with Parking Brake \$37.15 ea.
 Brake Reservoir - Screws into brake cylinder \$56.23 ea.
 \$ 6.50 ea.

SHOCK CORDS

| Size | Price |
|--------|---------|
| 1080 | \$ 8.55 |
| 1080HD | 9.38 |
| 1280 | 10.09 |
| 1280HD | 11.02 |
| 1380 | 13.40 |
| 1286 | 12.06 |



STOLP STARDUSTER CORPORATION 4301 TWINING RIVERSIDE, CALIFORNIA 92509

MAULE Aviation Tailwheels are designed and engineered to meet the toughest conditions on all types of airports and landing fields.

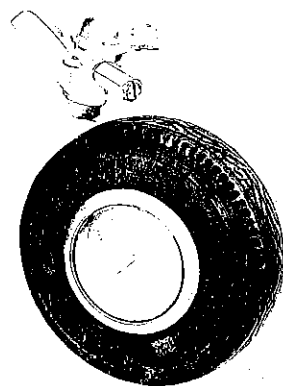
MAULE Model P8 Tailwheel Unit, equipped with shimmy dampener and 8" pneumatic tire, presents the industry with a thoroughly modern solution on airplane landing, taxiing and handling problems.

- Aluminum hub and hub cap.
- 8 x 3:00 -4 tire and tube.
- All working parts highly heat-treated.
- Weight approximately 7 lbs.



- Shimmy dampener.
- Steerable Full-swiveling.
- Steerable beyond full rudder range.
- New improved single arm shimmy-free fork.

MAULE TAILWHEELS



Model SFS-P8 (with 8" pneumatic tire)

Equipped with shimmy dampener and 8x3.00, 4-ply tire and tube.

SFS-1-2-P8 Tailwheel Assy. (f/1 1/2" leaf spring)..... \$124.95

Model SFS (with 6:50 solid tire)

Constructed of same materials as the SFS-P8 units, but has a 6:50 x 2:50 solid tire.

SFS-1-2 Tailwheel Assy. (f/1 1/2" leaf spring)..... \$99.95

AUTOMATIC - FAA APPROVED STEERABLE - FULL SWIVEL

Lang Model D-501A Tailwheel is full swivel, fully automatic and steerable. It is impossible to throw the Lang Tailwheel into full swivel unintentionally regardless of rough field conditions or cross winds. This tailwheel will not lock in any position except steerable, but releases easily when plane is pushed sideways or backwards by hand or when maneuvering plane on ground using brakes.

The Lang Tailwheel is universal for 1 1/2" and 1 3/4" spring leaves. Drop forged steel fork of single arm type. The cast aluminum wheel is grease packed for 100 hours service. Replacing is simple and easy. Comes complete with 6 x 2 solid tire. The Lang Tailwheel will fit most light planes. Weight Approx. 6 lbs.



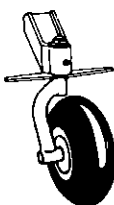
TAILWHEEL ASSEMBLY

D-501A For Light Airplanes.

\$165.00

4" TAILWHEEL ASSEMBLY - STEERABLE

Fits 1 1/4" or 1 1/2" Spring \$67.45



4" TAILWHEEL ASSEMBLY - FULL SWIVEL

Fits 1 1/4" or 1 1/2" Spring \$89.95

SCHWEIZER QUICK RELEASE HOOKS

For sail plane towing. Also for remote quick release tailwheel tiedown from cockpit.

\$32.00



COMPRESSION SPRINGS \$2.00/ea.

3 LEAF TAILSPRING



NEW TAIL WHEEL SPRING - The pivot post of a tail wheel should lean forward, when reviewed from the side. In many cases that we have observed it doesn't. A straight up pivot post will cause the tail wheel to be neutrally stable. A backward leaning post will cause tail wheel instability. In order to insure the desirable forward lean, we have redesigned our tail wheel springs. Our new design has a "S" curve in it, so that the tail wheel post will lean forward under almost any conditions. Also, our new springs are 2" longer, so as to increase rudder clearance.

\$19.00



RUDDER ARM

\$23.30

SET TAILWHEEL STEERING SPRINGS \$6.50

TAILWHEEL TIRES 2.50 x 280 x 4 \$14.24

TAILWHEEL TUBES 2.50 x 280 x 4 \$7.81

NEW RUDDER AND BRAKE PEDALS- Combination Rudder & Brake pedal. Completely finished & assembled & ready for use. They even have the clip for attaching the Rudder cable installed, and painted black. Assembly may be used on any of our air planes in place of Pedal assemblies shown on the plans. weight only 2 lbs 1 os \$25.00

RUDDER PEDAL RETURN SPRINGS \$2.25/ea.

RUDDER PEDALS

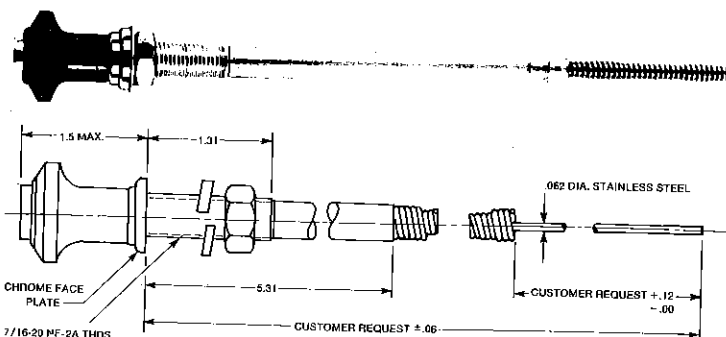
Light Weight (15oz/pr) \$11.50
Weight(2 lbs/pr) \$10.50



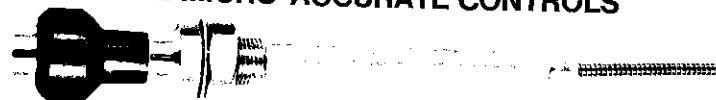
P-51 LANDING GEARS - For S.A.L. 2/3 scale P-51. Complete, per the plans \$1495.00
LANDING GEAR SCISSORS for use on OELO TYPE GEAR \$40.00/set

MODEL A-700 SERIES BUTTON LOCK PUSH-PULL CONTROLS

Provides a 10 lb. dependable lock force for light and medium service applications. Galvanized straight or wavy casing available with or without nylon or teflon inner liner. Excellent flexibility and strength with a maximum travel of 3.0 inches. Options: Choice of knob colors, end styles and lengths per customer request.



A-750 SERIES VERNIER MICRO-ACCURATE CONTROLS

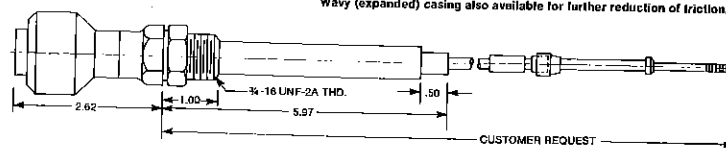


Features various knob sizes, and colors. Smooth-acting in all temperatures from -65 degrees to +275 degrees F. Casing is made of tightly woven, tough galvanized steel.

Inner wire is a choice of either oil-tempered or stainless steel. Low friction feature is created by an internal extruded nylon or teflon liner. Gerdes controls are pre-lubed

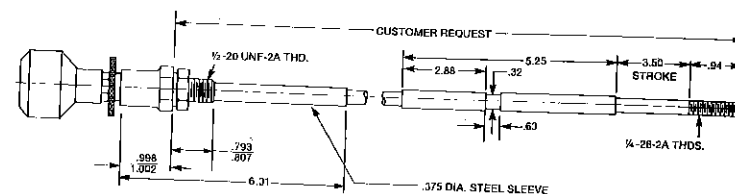
at the factory for long-life and require no further lubrication. Rubber grommets seal and protect the control from dirt, oils and other foreign materials.

Wavy (expanded) casing also available for further reduction of friction.



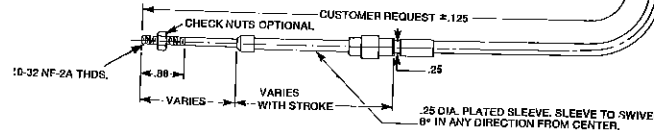
A-800 SERIES FRICTION LOCK CONTROLS

Friction lock controls provide a positive lock throughout your selected power setting by turning the chrome collet lock nut. All friction lock controls are available with or without protective casing coverings. Various end styles are available along with a variety of knob colors and knob decals.



MODEL A-900 SERIES PUSH-PULL CONTROLS

Pivoted design provides 8° swivel for ease of installation. Stroke available from 1.50 inches to 3.50 inches. Stroke decreases approximately .360 in. with each 380° of bends in routing. Inner wire operates within a friction free nylon or teflon liner. Rubber grommets exclude dirt and other foreign matter. Colorful plastic casing coverings add further protection against extreme conditions.



PRODUCTS

A-750-0720 with 1032 one end Vernier control \$31.90
A-800-0720 with 1032 one end control friction lock \$34.50

A-900 series cables are push pull with 1032 threads on both ends, with 8° swivel. Can be used between front & rear control quadrants on a 2 place airplane as well quadrant to firewall bell crank. Standard lengths from 24" on up in 12" increments.

A-900-0240 \$18.50
A-900-0360 \$20.00
A-900-0480 \$21.50
(\$1.50 for each 12" over base 24")

GASCOLATOR

1/8 pipe connection for 3/8 fuel line with built in filter, remote drain by cable pull. \$75.00

THROTTLE QUADRANTS

- NEW production, aluminum quadrants

3 lever ----- \$37.15
2 lever ----- \$33.50

DORMAN PRODUCTS

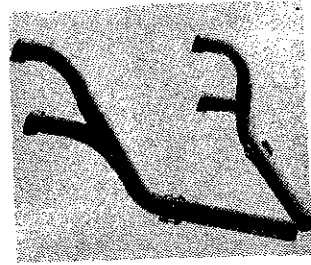
VERNIER CONTROLS - NEW \$52.00

T HANDLE LOCKING TYPE-Chrome knob

CC25 -----15' long \$12.10

MADE FROM CERTIFIED, PASSIVATED, AIRCRAFT STAINLESS STEEL - .028 W.T.

FOR LYCOMING ENGINES - 125 thru 200 HP.
 FOR STARDUSTER, STEEN SKYBOLT, PITTS, OR TO YOUR MEASUREMENTS- \$225.00
 ADD \$30.00 FOR CARB HEAT BOX
 ADD \$36.00 FOR GLASPAC MUFFLERS, ONE IN EACH TAIL PIPE -WT=5# FOR TWO MUFFLERS.



SALE ON EXHAUST TUBING DESCRIBED ABOVE - LIMITED QUANTITY - SUBJECT TO SUPPLY ON HAND.

1 3/4" O.D. - 3.75/FT
 2" O.D. - 4.25/FT
 STAINLESS STEEL EXHAUST FLANGE \$5.95 /EA.



| | | | |
|------------------------|--------------|----------------|---|
| COPPER EXHAUST GASKETS | for Lycoming | ENGINE Baffles | For IO360-with Electrical system---\$125.00 |
| | \$1.20 /each | | -with no Electrical sys. --100.00 |
| NO BLOW GASKET | for Lycoming | | For IO540-with Electrical system--- 175.00 |
| | \$4.45/ea. | | -with no Electrical sys. --150.00 |
| BLAST TUBE | \$2.50/ea. | | |

ENGINE ACCESSORIES - FOR LYCOMING ENGINES

| | |
|------------------------------------|--|
| FUEL PUMPS - Dukes-Electric Rotary | NASA INLETS for the pressure carburetor. |
| 12V-22GPH @16PSI, New --\$182.00 | Excellent for engines with rear mounted |
| Continuous Duty, New ---\$218.00 | carburetors, or injectors. Fiberglass. |
| STEWART-WARNER OIL COOLER \$125.00 | On a 360, you pick up about an extra |
| | inch of manifold pressure. \$50.00 |

-8 FUEL LINES - METAL BRAID - ONE STRAIGHT FITTING, ONE 90° FITTING

| | |
|-------------------------------|----------|
| #2-8327-135-----12" LONG----- | \$ 9.95 |
| #2-8327-11-----15" LONG----- | \$ 12.25 |
| #2-8327-91-----27" LONG----- | \$ 14.95 |

LYCOMING ENGINES -----NEW-ANY MODEL-----15% DISCOUNT
 HARTZELL AEROBATIC C/S PROPELLERS -----20% DISCOUNT
 SENSENICH FIXED PITCH PROPELLERS -----20% DISCOUNT

LA TOUR GASCOLATOR DRAINS

Quick drain gascolator bowls. Poppet drain valve for draining sediment without removing bowl. Pyrex bowl with metal base. 2-1/8 in. \$18.50



GERDES

GASCOLATOR
 1/8 pipe connection for 3/8 fuel line with built in filter remote drain by cable pull \$75.00

A/C SHIELDED IGNITION CABLES

5 mm cable 3/4 spark plug #50320-B (by Livingston) \$9.81

BATTERY CABLE ASSEMBLIES - 3/8" DIAMETER CABLE WITH TWO SWAGED TERMINALS - LENGTH AND RUBBER BOOT AS INDICATED.

| | | |
|--------|------------------------------------|--------|
| 2-4744 | 1 cable -- 10" long -- one boot | \$2.50 |
| 2-4006 | 3 cables-- (1) 12" long -- no boot | |
| | (2) 26" long -- one boot | |
| | (3) 36" long -- two boots | \$9.80 |
| | 1 cable -- 28" long -- one boot | \$9.45 |
| | 1 cable -- 28" long -- two boots | \$3.95 |



REM 48 E

\$14.80 Price Each

BATTERY SOLENOID A 2 -----\$15.64

STARTER SOLENOID A 1 -----\$11.95

AIRCRAFT ELECTRICAL SUPPLIES AND EQUIPMENT

TRIM MOTORS - VERY SMALL AND LIGHTWEIGHT - A TRIM MOTOR WITH WIRING IS LIGHTER AND MORE EFFICIENT THAN A MECHANICAL TRIM SYSTEM - 24 VOLT MOTORS RUN AT REDUCED SPEED ON 12 VOLTS.



2-7110 24 V -- 168 RPM - Basic motor and gear box \$11.95



2-7143-3 12 V -- 40 RPM - Motor and gear box \$17.50



2-7148-5 24 V -- 168 RPM - Motor and gear box \$12.95



3-4590-11 Circuit Breaker 5 - 35 Amp - Push Button \$4.95

3-4640-3 Control Unit - Warning - Engine out \$49.50



3-4654-603 Static Inverter - Controltron Corp. P/N 602-1 - 24 VDC IN-115 VAC - 400 HZ OUT \$58.00

2-4620 Fuse Holder \$ 0.50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Add packing charge (Min. \$.50, Max. \$10.00).

STARDUSTER SMOKE SYSTEM - WILL FIT ALL STARDUSTER AIRCRAFT. SMALL ECONOMICAL 3 GAL. TANK WILL GIVE 15 MINUTE BURN, MOUNTS EITHER FORWARD OR AFT OF FIREWALL. CLEANEST SYSTEM AVAILABLE. PRECISION INJECTION NOZZLES INSURE COMPLETE BURN. KEEPS AIRPLANE OIL FREE. COMPLETE SYSTEM, MINUS MOUNTING BRACKETS & COCKPIT SWITCH--- \$215.00

STOLP STARDUSTER CORPORATION 4301 TWINING RIVERSIDE, CALIFORNIA 92509

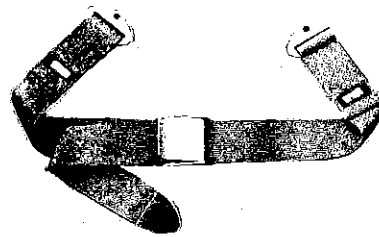
SEAT BELTS

NEW OR NEW SURPLUS -- NYLON -- COMPLETE WITH END FITTINGS

STARDUSTER seat belt/harness system
5 point seat belt harness system
comfortably supports the body in
both position as well as high nega-
tive "G" conditions.

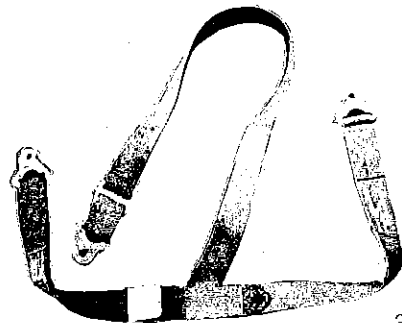
\$75.00

STANDARD 2" WIDE BELT
CAM TYPE BUCKLE
GOLD COLOR
TSO C-22E \$ 5.95



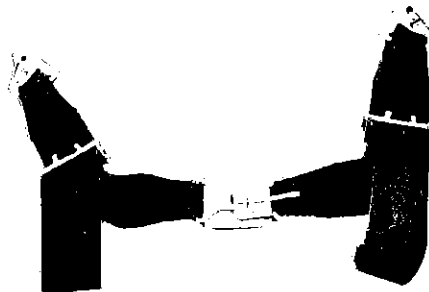
STANDARD 2" WIDE BELT
INTEGRAL SHOULDER STRAP
GOLD COLOR

\$ 7.95



3" WIDE ARMY TYPE BELT
QUICK RELEASE - NEW PRODUCTION
ONLY \$29.95

TWO STRAP SHOULDER HARNES
FOR ABOVE BELT - \$20.50



Log Book \$1.95

Custom Built Log Book \$2.50

BOOKS by
DUANE COLE



\$5.95 EACH

plus \$1.00 Postage & Handling

HAPPY FLYING SAFELY

What you should have learned about
flying in a modern pilot factory but
didn't.

A clear message to the FAA and the
new flight instructor.

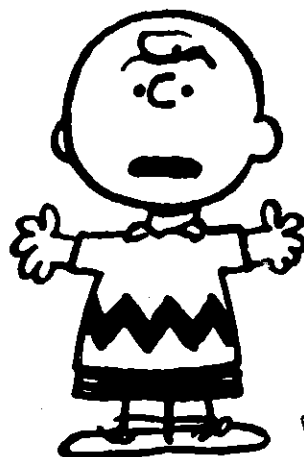
ROLL AROUND A POINT

Basic Aerobatics explained and dia-
grammed by the world's foremost
authority on aerobatic instruction.
Arestl figures.

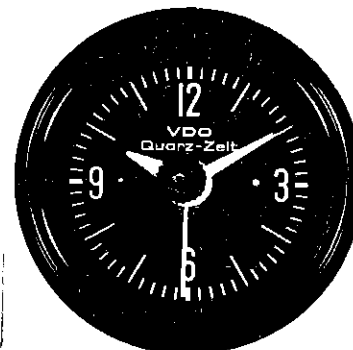
CONQUEST OF LINES & SYMMETRY

The most comprehensive aerobatic
instruction book ever written.
Basic through advanced maneuvers
explained and diagrammed.

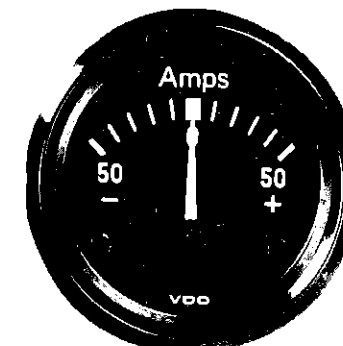
ONE DAY
MY SHIP WILL
COME IN,
AND WITH MY LUCK
I'LL PROBABLY BE
AT THE AIRPORT...



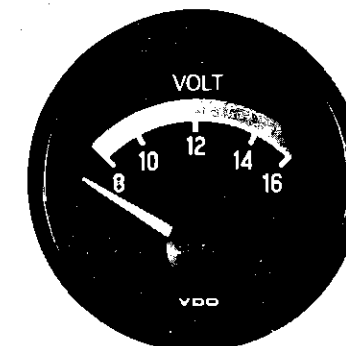
VDO INSTRUMENTS- FOR SEVERAL YEARS NOW WE HAVE BEEN USING VARIOUS
VDO INSTRUMENTS IN OUR AIRPLANES. OUR OPINION IS THAT THEY ARE
EQUAL TO, OR BETTER THAN, THE FINEST AIRCRAFT INSTRUMENTS YOU CAN
BUY. DEVELOPED IN GERMANY FOR FINE MOTOR CARS, THEY ARE PRODUCED
BY THE MILLIONS. THEIR QUALITY CONTROL IS EXCELLENT. WE ARE PROUD
TO SELL THEM. YOU WILL BE PROUD TO OWN THEM. SEE BELOW FOR LISTINGS.



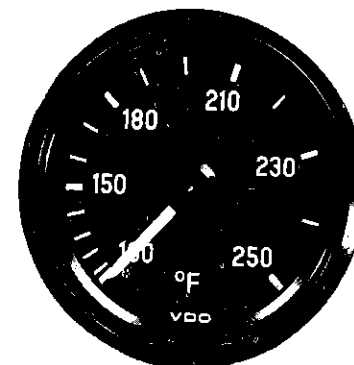
QUARTZ CHRONOMETER
Accurate to within a few
seconds a month. Battery
power. Only \$59.50.
Wiring kit only \$3.25



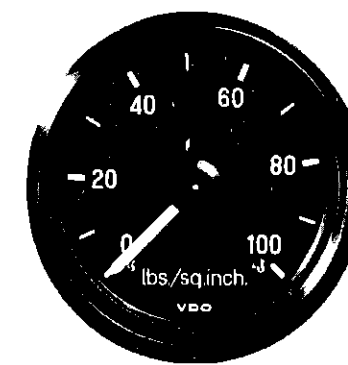
AMMETER-50 AMPS
Illuminated-12 Volts.
Wiring kit available.
Ammeter only \$18.40
Wiring kit only \$14.00



VOLTMETER-8 TO 16 V.
Illuminated-12 Volts
Wiring kit available.
Voltmeter only \$29.95
Wiring kit only \$3.25



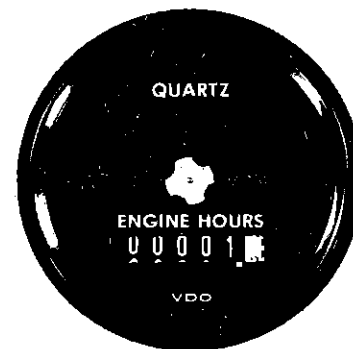
OIL TEMPERATURE GAGE
Tubing with sender
only \$42.00 -Adapter for
cyc. engines--\$6.10



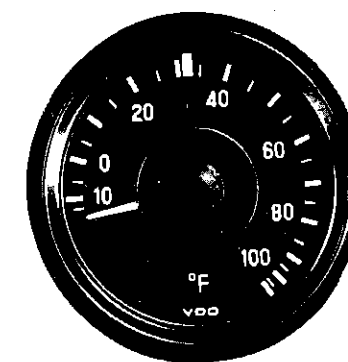
OIL PRESSURE GAGE
Reads to 100 PSI
Only \$29.50-Hookup
tubing kit-\$8.25

FUEL PRESSURE GAGE
Same as at left, except
gage reads from 0-30 PSI.
\$51.10-

Hookup tubing kit
\$8.25



ENGINE HOUR METER
Only \$46.00
Wiring kit \$3.25



OUTSIDE AIR TEMPERATURE
Only \$66.80
includes bulb and
all wiring



Fuel Gage--\$25.95.
Sending unit-\$34.40
May be illuminated-
Wiring kit--\$3.25

WESTACH

THE ACCEPTED STANDARD SINCE 1944

aircraft INSTRUMENTS

WESTACH

aircraft INSTRUMENTS

STANDARD FEATURES

- Matching Jewelled Instruments
- Standard Aircraft Cases
- Cushioned—Light Weight
- Zener Voltage Regulated
- Dustproof
- 2% acc 1 year warranty
- Magnetically shielded
- Long Life—Low cost
- Internal lighting available
- Threaded Bushings—eliminates nuts & washers for mounting

ORDERING INFORMATION

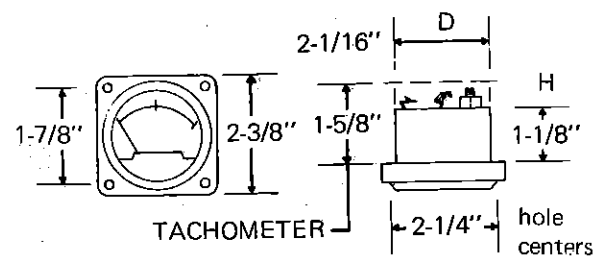
The WESTACH instruments are made especially for aircraft of the finest materials reflecting 30 years experience with automotive, cycle and snowmobile applications. All WESTACH instruments have agate bearings and rugged senders.

Also available are our FAA approved TSO-C43 EGT & CHT models. For information on TSO models or additional information on instruments on this sheet, see your dealer or write the factory.

For internal lighting order: lighting Cat. No. 186-12A2.

For MAGNETO powered instruments also order a Cat. No. 103-18 Mag Adapter and a fuse adapter Catalog Number 381.

SPECIFICATIONS

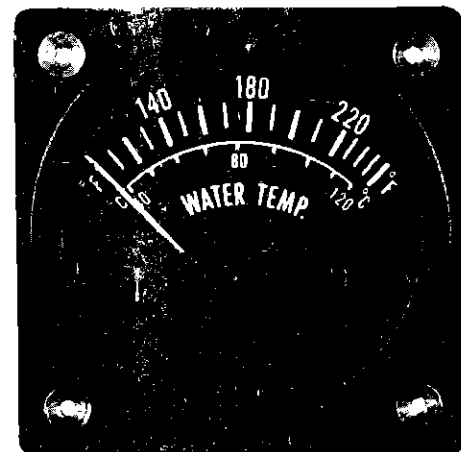


STD. AIRCRAFT SIZES

| SIZE | D | H |
|--------|---------|---------------------|
| 2-1/4" | 2-1/16" | 1-1/8" Plastic Case |
| | | 1-5/8" Metal Case |
| 3-1/8" | 2-7/8" | 1-3/4" Metal Case |

Price:

| | | | |
|------------|---------|--------------|----------------|
| 2A9-1----- | \$29.40 | 2A1----- | \$29.40 |
| 2A9-2----- | \$29.40 | 712-4W-- | \$ 9.15 |
| 2A2----- | \$29.40 | 712-5W-- | \$ 9.15 |
| 712-2DW--- | \$11.80 | 299A6--- | \$29.40 |
| | | 399-W--- | \$25.60 |
| | | 399-S | \$ 6.35 |



Actual Size

WATER/OIL TEMP.

models:
water: 2A9-1
oil: 2A9-2
range: 100-260° F
40-120° C
weight: 3 oz.

Accurate monitoring of temperature

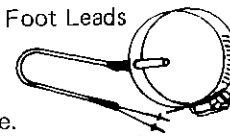
SENDER
Cat No. 399S
Fits 1/8" pipe THD.



EXHAUST GAS TEMP. (EGT)
model: 2A2
range: 700-1700° F 400-900° C
weight: 3 oz.

Insures proper setting of carburetor and timing. Multiple switching available. Adjustable red pointer available. Add (P) to order No.

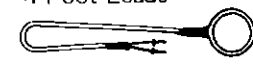
SENDER 3/16
Cat. No. 712-2DW
4 Foot Leads



CYLINDER HEAD TEMP. (CHT)
model: 2A1
range: 100°-700° F/50-350° C
weight: 3 oz.

Warns of overheating
Multiple switching available
Adjustable red pointer available. Add (P) to order No.

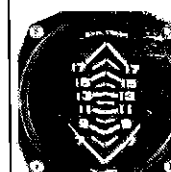
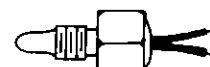
SENDER
14mm No. 712-4W
18mm No. 712-5W
4 Foot Leads



CARBURETOR TEMP.
model: 299A6
range: -50° C + 50° C
weight: 5 oz.

Provides instant icing check of carburetors

SENDER
Cat. No. 399-W
Fits 1/4-28 Thd.
1 Foot Lead

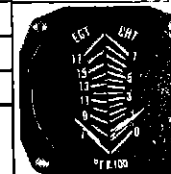


TWIN EGT
model: 346TA1
range: 700-1700° F
weight: 9 oz.

Popular 3-1/8" dual instruments are space savers as well as lightweight. Fast response insures safe engine performance. 2 senders required. See above. Multiple switching available.



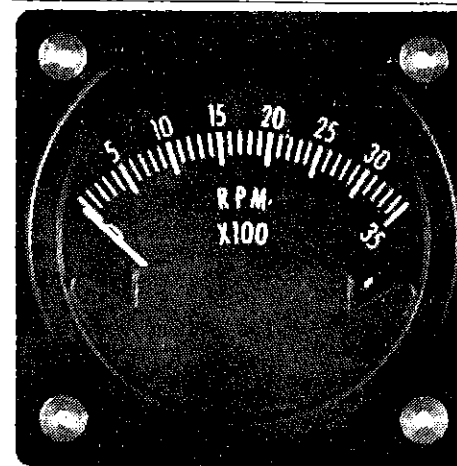
TWIN CHT
model: 376TA
scale: 0-650° F
weight: 9 oz.



COMBINATION EGT & CHT (Exhaust Gas Temp. & Cylinder Head Temp.)
model: 356 TA
scales: 700-1700° F EGT
0-700° F CHT
weight: 9 oz. 3-1/8 only

SENDERS
712-2DW 712-4W-5W
Two units in one saves space. Multiple switching available.

| | | | |
|--------------|----------|------------|----------|
| 356 TA --- | \$ 62.40 | 346TA1 --- | \$ 62.40 |
| 712-2DW -- | \$ 11.80 | 376TA --- | \$ 62.40 |
| 712-4W, -5W- | \$ 9.15 | | |



Actual Size

TACHOMETER

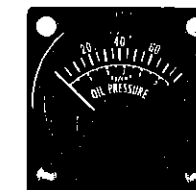
Cat. No. 2AT32
weight: 5 oz.
Frequency type provides top accuracy. Connects to 6V 12 V or Magneto primary using Fuse Adapter Cat. No. 381.

For Slick, Bendix and Eiseman Mag add -1 to Catalog Number.

NOTE: Fuse adapter advised for Tachometers—order part No. 381.

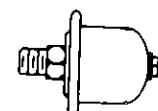
OIL/FUEL PRESSURE

model: range:
Fuel 2A8-2 0-80
Oil 2A8 0-80
2A8-1 0-100



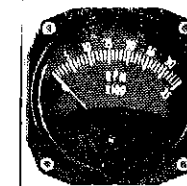
weight: 3 oz.
Constant monitoring of fuel and oil pressure.

SENDER
Cat. No. 387-11S 0-100
387-12S 0-80



Price:

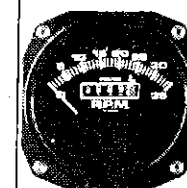
| | | | |
|----------|----------|---------|---------|
| 2AT32--- | \$50.05 | 2A7---- | \$29.40 |
| 332A---- | \$61.90 | 395-5-- | \$14.00 |
| 2AT32--- | \$50.05 | 395-10- | \$15.15 |
| y332A-- | \$100.40 | 395-15- | \$16.20 |
| 2A8-2--- | \$29.40 | 2A6-1-- | \$29.40 |
| 387-11S- | \$21.70 | 2A6-2-- | \$29.40 |
| 387-12S- | \$21.70 | 293S--- | \$ 8.25 |
| | | 296S--- | \$ 8.25 |



3" Catalog Listings
weight: 9 oz. 4 cyl. 332 A 352 A
6 cyl. 333 A 353 A

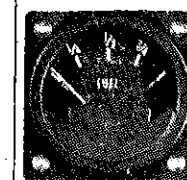


2" Catalog Listings
weight: 5 oz. 4 cyl. 2AT32 2AT52
6 cyl. 2AT33 2AT53



HOUR RPM -- 3" SIZE 12 Volt only
model: No. y332A
range: 0-3500/0-5000
weight: 8 oz.

When ordering add "Y" to the preferred catalog number of the above tachometer listings. For 6-50 V.D.C. -Not available for Mags.

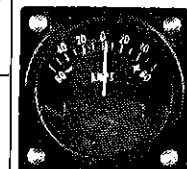
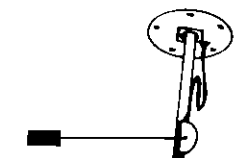


FUEL LEVEL
model: 2A7
range: E-1/4-1/2-3/4-F
weight: 3 oz.

SENDER
Cat. No. 395-5 5-12"
395-10 10-15"
395-15 15-25"

Dual tank switching available

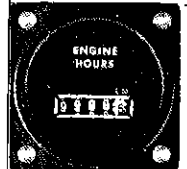
Includes fitting kit
Standard 5-hole
Flange Top Tank
Mounting Only



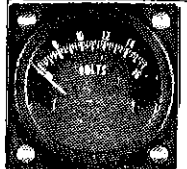
AMMETER
models: 30 Amp-No. 2A6-1
60 Amp-No. 2A6-2
ranges: -30 0 + 30
-60 0 + 60
weight: 3 oz.

SHUNTS
30 Amp-No. 293S
60 Amp-No. 296S

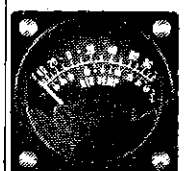
External shunts reduce cable costs, weight and fire hazard



HOUR METER 4 oz.
model 2A10
6-50 VDC (No lighting)
reads running time of ignition (Not available for Mags)

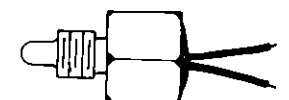


VOLTMETER
model: 2A5
6-16 VDC 3 oz.
Check generator and alternator charging



OUTSIDE TEMP GAUGE
model: No. 299A7
range: -60° -- + 100° F
weight: 3 oz.
Allows constant monitoring of outside temperature


SENDER
Cat. No. 399-OT
4 Foot Lead.





| | |
|----------|---------|
| 2A10---- | \$38.50 |
| 2A5----- | \$29.40 |
| 299A7--- | \$29.40 |
| 399-OT-- | \$25.60 |


INSTRUMENTS & ACCESSORIES


ALL INSTRUMENTS IN THIS CATALOG ARE EITHER NEW OR OVERHAULED BY FAA APPROVED REPAIR STATION


AIRSPPEED INDICATORS

NEW OR REBUILT FOR ROTORCRAFT OR SLOW AIRPLANES. \$ 59.50
 10 to 125 MPH or KTS.


Combination Airspeed

 Reads both mph and knots.
 New production units.
 0-180 \$ 81.00
 0-300 \$ 113.00


SENSITIVE ALTIMETER

 0-20,000 VFR \$189.00
 0-30,000 \$225.00


RATE OF CLIMBS

 New manufacture, Fully certified and meets all TSO requirements. 3 1/4" units.
 0-2000
 0-4000
 0-6000 \$ 144 .00

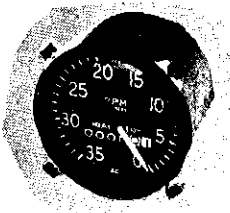
SMALL COMPASS

 \$34.50


DUAL INDICATORS

NEW MANIFOLD PRESSURE - L.H. SIDE FUEL FLOWAGE (GPH) - R.H. SIDE
 \$100.00


MINIATURE 2 1/4" 3 NEEDLE RECORDING G METER

 Gauge reads in "G" units. Fits standard 2 1/4" instrument hole, and has three hands to record positive and negative G loads.
 New Mfg. \$ 180.00


8-DAY AIRCRAFT CLOCKS

 2 1/2" Dial - luminescent hand and figures - large sweep second hand with precision movement - made in strict accordance with military specifications.
 \$ 135.00


2 1/4" SUCTION GAUGE

 0-10 Inches.
 \$67.50


RECORDING TACHOMETER

NEW SPECIFY ENGINE
 \$ 48 .00

MANIFOLD PRESSURE GAUGE

NEW OR REBUILT 0-35" HG NUMBERS RUN FROM 9:00 TO 3:00. FOR NON SUPERCHARGED ENGINES.
 \$ 90.00

Tach Right-angle Drive Adapter

 \$17.20


CERTIFIED ELECTRIC 12v. T & B

 To be used where venturis and vacuum systems are not desirable. Gives additional safety against failure of present vacuum system. Fits 3-1/8" panel hole and weighs approximately 2 lbs.
 \$ 247.50

Brittain Turn Coordinator

 First significant advancement in primary flight instrumentation in over four decades. Unit is an electrically operated gyroscopic roll-turn rate indicator, and presents an immediate indication of deviation from straight flight.
 Complete, ready for installation 12v. \$ 247.50

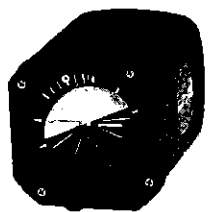
TURN & BANK

 2 1/4" ELECTRIC \$405.00
 3" AIR \$126.00

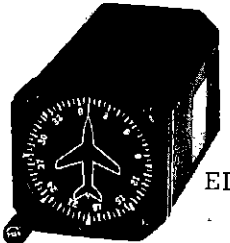
(2-Holers)

 Now a dual tach adapter allows tachometer operation both cockpits. D778-T Drive Joint
 \$39.85

669-D Dual Tach Drive

 \$59.50

STOLP STARDUSTER CORPORATION
 4301 TWINING RIVERSIDE, CALIFORNIA 92509


GYRO HORIZON

 ELECTRIC, J-8 \$720.00
 VAC, 3" \$270.00
 VI-GRAPHIC INDICATOR

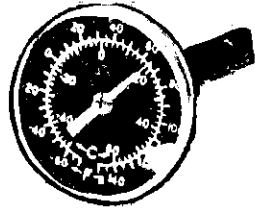
DIRECTIONAL GYRO

 ELECTRIC \$540.00
 VAC, 3" \$270.00
 NOT ILLUSTRATED

INSTRUMENT MOUNTING SCREWS \$.15 EA

BLACK PHILLIPS HEAD AN515-B6R6

HOOK-UP TUBING \$.20 FT
NYLON 3/16" I.D. 13 FT/\$1.00

TACH SHAFTS

 NEW 54" \$7.95
 87" 9.95
 CUSTOM MADE - \$6.50 FOR FIRST FOOT - .50¢ FOR EACH ADDITIONAL FOOT.



FREE AIR
TEMPERATURE
INDICATOR
\$22.00

INSTRUMENT CLUSTER
2" high x 6" WIDE

Includes Oil Temp, Oil Pressure
& Ammeter - ELECTRIC
\$20.00

OIL TEMP SENDING UNIT
FOR ABOVE -- \$23.00

OIL PRESSURE SENDING UNIT
FOR ABOVE -- \$33.00

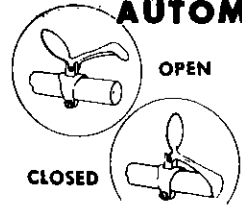
**AIRCRAFT
PITOT TUBE**

Adaptable to
all home built and most
light aircraft.



\$10.50

**AUTOMATIC PITOT TUBE
PROTECTOR**

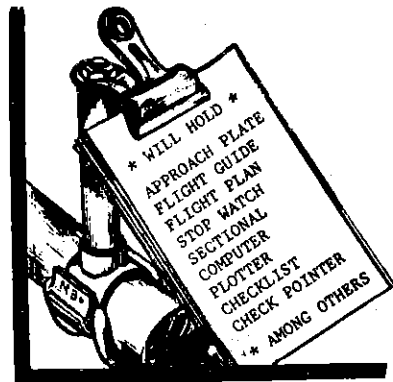


OPEN
Easily installed in one minute with
screw driver. Opens automatically
at takeoff. Closes automatically
at end of landing roll.

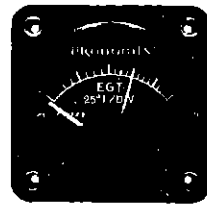
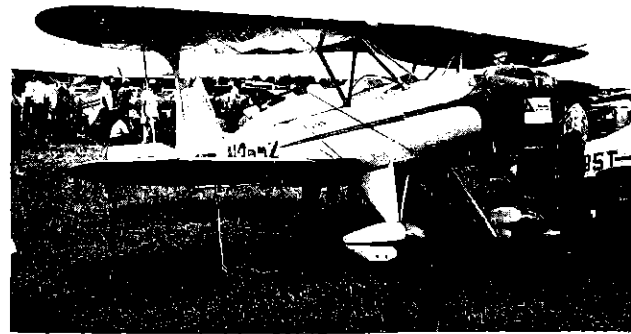
CLOSED
Fits 3/16", 3/8", 1/4" or 1/2"
OD pitot tube. Specify size when
ordering.

\$6.50

CLIP-IT



"Starduster" \$3.25



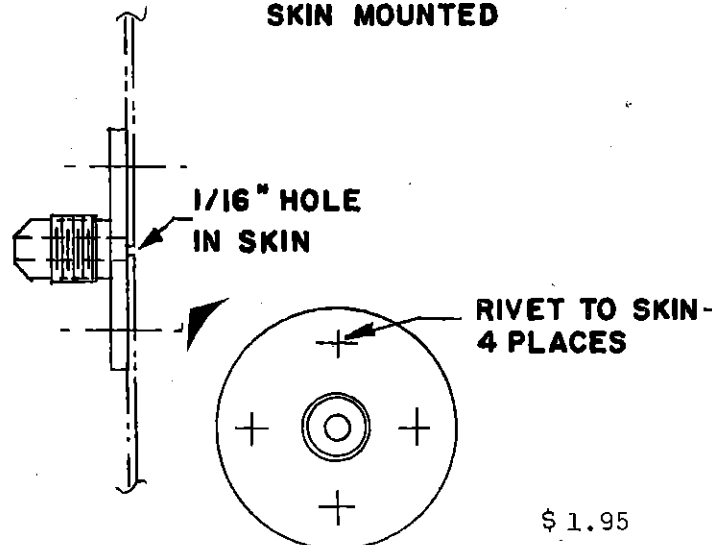
Exhaust Gas Temperature Gauge
Truly a wise investment. Designed to maintain
correct fuel air mixture. Don't guess-Be pre-
cise. Simple installation. Each kit complete.
Single Engine Model

\$99.50

INSTRUMENT MTG NUTS

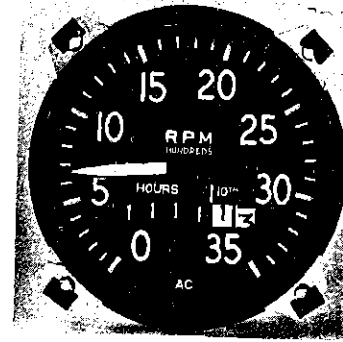
Slip In Type \$.55

**STATIC AIR PICKUP-
SKIN MOUNTED**

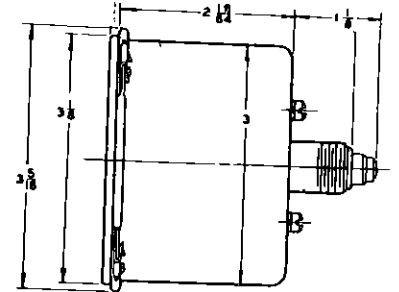


\$ 1.95

TACHOURMETERS



The "Attitude-Accurate Tachometer" assures tachometer accuracy regardless of aircraft position. From idle to full power, and the ground to airborne, climbing, banking, diving, or cruising, this Tachometer maintains absolute accuracy and dependability. Indicates the rate of speed in revolutions per minute and incorporates an hour meter which registers accumulative hours of operation. Designed to give accurate, dependable performance. Compensated against temperature and lubricated for life. Automatically adds up the engine and flying hours. The gearing of the hour meter is based on the ideal cruising speeds recommended by various aircraft manufacturers (see chart). All Tachometers have standard AN mounting cases and dial readings, and are available in clockwise and counterclockwise rotation.



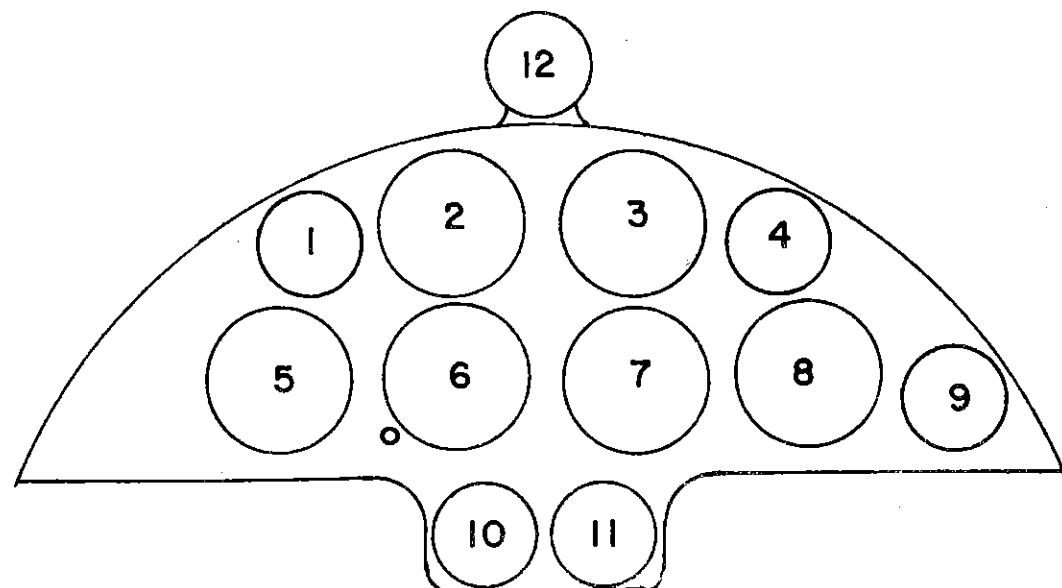
Bezel: black lacquer. Dial: major graduations, "RPM" and figures, green phosphorescent on black. Case: zinc-plated steel. Hour Meter Wheels: white figures on black. 10th and 100th Wheel: black figures on white. Pointer: black with green phosphorescent tip.

| Altitude Accurate Type | Direction | Indicated Speed | Application |
|------------------------|-------------------|-----------------|--|
| RT-7 | Clockwise | 2310 | Aeronca 1948-55 Model 15 AC Sedan Air Coupe 1959 F1 Anderson Greenwood ... 1950 FIA Beech 1948-54 Model 14 1954-57 Model 45 Call 1946-59 Bonanza 35 (w/Cont. E-225 Eng.) Cessna -- Models A-2, A-3, A-4, A-5, A-6 Champion 1950-59 Models 120, 140, 170 1957-59 Model 7EC 1958-59 Model 7GC Model HC Model HCB Downer 1959-60 Bellanca "260" Forney -- Model F-1 (5600-Up) Mooney 1956-60 Mack 20, 20A Myers 1949-50; 1955 Model 145 Piper 1946-48 PA-12 Super Cruiser 1949 PA-16 Clipper 1956-59 PA-18-95, 105, 125, 135, 150 1950-56 PA-18, PA-18A (w/Lycoming Engrs.) 1950-56 PA-20, PA-22 Pacer 1954-56 PA-23 Apache PA23 Aztec "250" 1957-59 PA-24-180, PA-24-250, PA-25, PA-22-150, PA-23-160 Super Cub PA-18 "95" (w/Cont. Eng. C90-12F) Temco 1947-55 Model B-8 Texas Eng. 1948-50 Model Swift GC-1-B and for any installation using a 2310 RPM indicated speed, clockwise direction, and twice cable speed take-off. |
| RT-8 | Clockwise | 2053 | Beech 1947-55 Bonanza 35 (w/Cont. E-165 & E-185 Engrs.) 1957 Bonanza 35 (H Model) 1958 Bonanza 35 (J Model) 1959 Bonanza 35 (K Model) Ryan Aeronautical ... 1949-50 Continental NAV-4 and any installation using 2053 RPM indicated engine speed, clockwise direction, twice cable speed take-off. |
| RT-9 | Counter-Clockwise | 2310 | Aeronca 1948 Champion and Chief Call 1955-56 -- Champion 1946-50 Mdls. 7AC, 11AC Funk 1948-50 Model B-85-C Piper 1948 PA-15 Vagabond 1952-56 PA-18, PA-18A (w/Cont. Eng.), 95 with Cont. Eng. B90-8F Temco 1946-54 Model B-A and any installations using a 2310 RPM indicated engine speed, counterclockwise, twice cable speed take-off. |
| RT-10 | Counter-Clockwise | 2053 | Aeronca 1946-47 Champion and Chief Champion -- Mdls. 7AC, 11AC (w/Cont. C-90-8 Eng.) 7CCM Funk 1948-50 Model B-85-C and any installations using a 2053 RPM indicated engine speed, counterclockwise, twice cable speed take-off. |
| RT-11 | Clockwise | 2566 | Cessna -- 172, 150, 180-182, 210 Helio Aircraft 1955 -- Ryan Aeronautical ... 1948-50 Model Lycoming NAV-4 Sits 1960 SA9A and any installations using a 2566 indicated engine speed, clockwise, twice cable speed take-off. |
| RT-12 | Counter-clockwise | 2566 | Consolidated Vultee ... 1947-50 Stinson 108-3 (w/McCauley prop.) and any installations using a 2566 RPM indicated engine speed, counterclockwise, twice engine speed take-off. |
| RT-14 | Clockwise | 1796 | Stearman Aircraft -- With P & W R-985 Engine |
| RT-15 | Clockwise | 3080 | Cessna -- 175 |
| RT-16 | Counter-Clockwise | 1796 | Any installations using a 1796 indicated engine speed, counterclockwise, twice cable speed take-off. |

PANEL LAYOUT

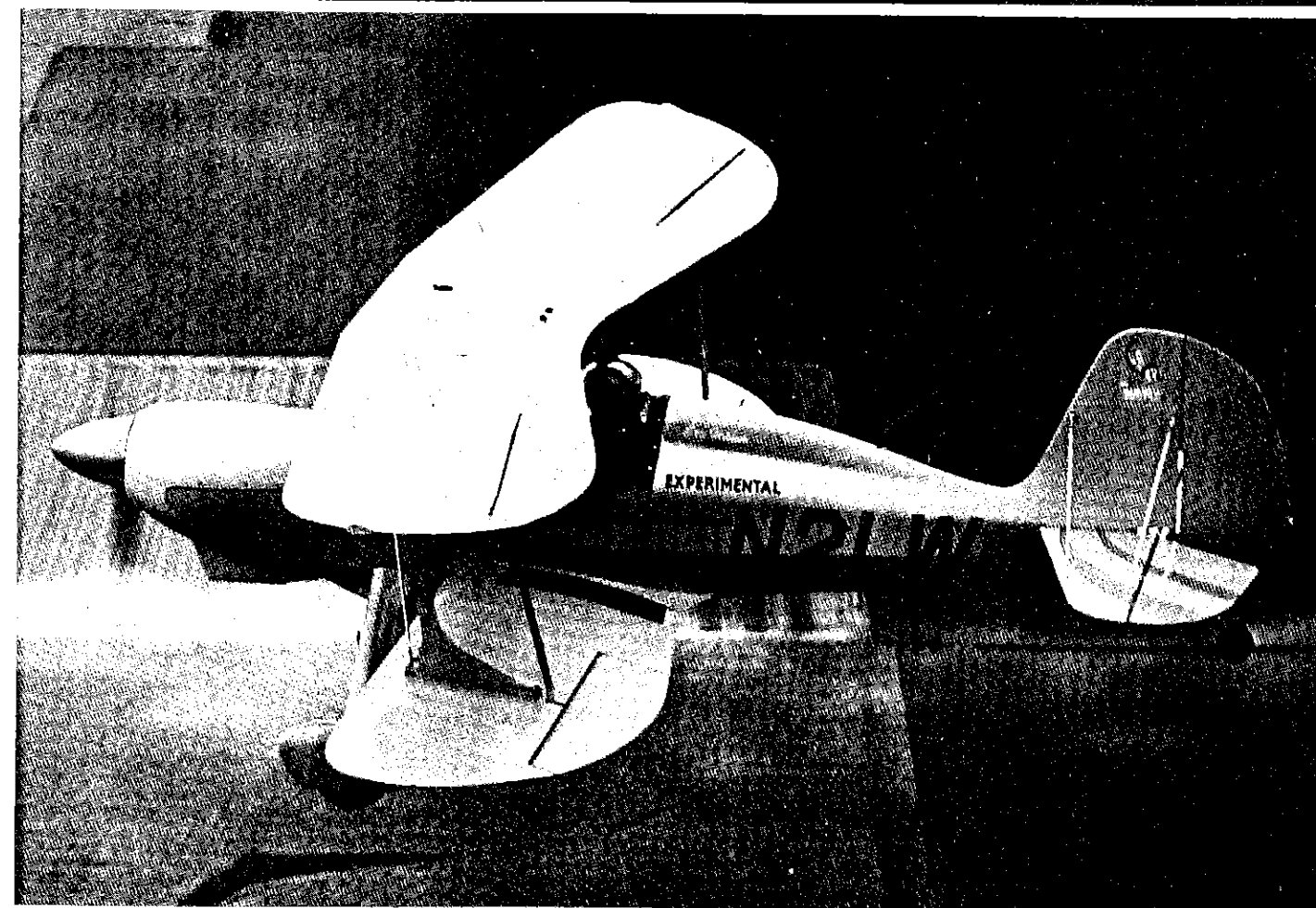
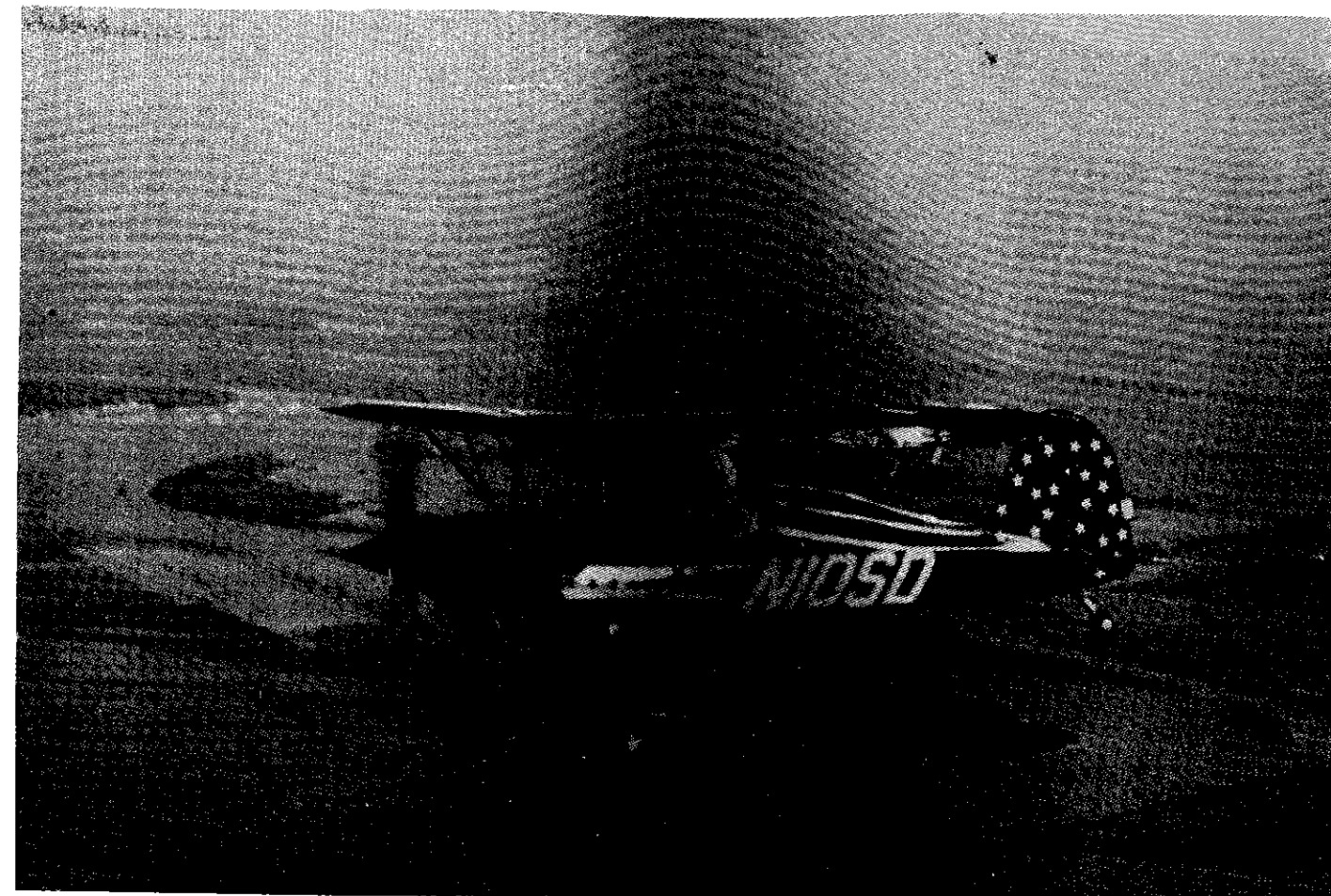
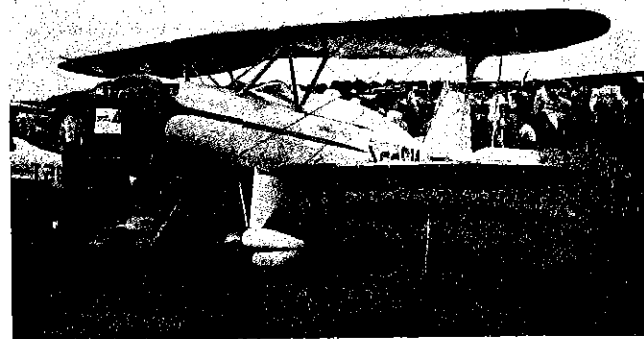
A GOOD LAYOUT IS HALF THE BATTLE

- 1 - BASIC REQUIREMENTS: VFR PANEL, VFR WITH GYROS, OR FULL IFR PANEL.
- 2 - FLIGHT INSTRUMENTS TO THE LEFT, OR ON TOP. ENGINE INSTRUMENTS TO THE RIGHT OR ON BOTTOM - SWITCHES, KNOBS, ENGINE CONTROLS, ALONG BOTTOM AND DOWN SIDES.
- 3 - KEEP COMPASS AWAY FROM ELECTRICAL METER MOVEMENTS.
- 4 - BE SURE YOU HAVE ENOUGH ROOM BEHIND PANEL. SOME INSTRUMENTS ARE OVER 8" LONG, NOT INCLUDING SPACE FOR LINES & FITTINGS. DO NOT USE RIGHT ANGLE TURNS ON GYRO VACUUM LINES.



- | | | |
|----------------------|--------|-------------------|
| 1 TURN BANK | 2 1/4" | 7 ATTITUDE GYRO |
| 2 AIRSPEED | | 8 TACHOMETER |
| 3 ALTIMETER | | 9 MANIFOLD PRESS. |
| 4 CYLINDER HD. TEMP. | | 10 OIL PRESS. |
| 5 RATE OF CLIMB | | 11 OIL TEMP. |
| 6 DIRECTIONAL GYRO | | 12 COMPASS |

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