



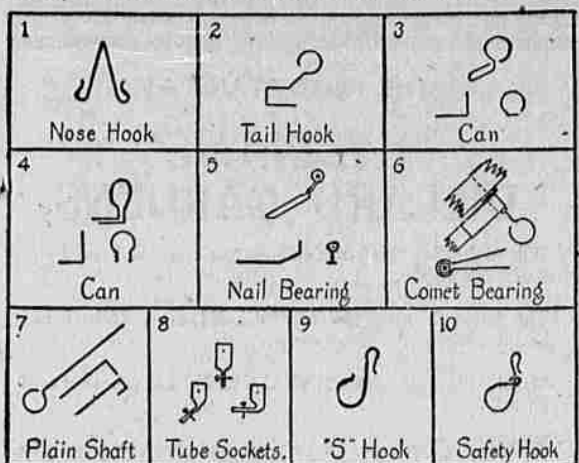
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How To Make Fittings For Model Airplanes



Editor's Note: This is the fourth of a series telling the boys of Roseburg how to build model airplanes. The information in these articles was obtained from the Playground and Recreation Association of America.

In the construction of model aircraft, various fittings are necessary to join the parts of the models together and to operate the pieces of mechanism. These are constructed of pieces of wire, metal, etc., which are found in most boys' boxes of odds and ends. In the construction of models having frames consisting of two sticks open like a "V" and joined at the apex, a fitting known as a nose-hook (Figure 1) is used at the front both for joining the sticks and holding the rubber bands which compose the motor. These hooks are made from piano or heavier wire, by using round-nose pliers. The best procedure is to use a two-inch length of wire in the ends of which hooks are formed, after which the wire is bent in the center to form the "V."

Fastening the Rubbers
The next fitting shown is a tail hook (Figure 2) used on tractor models to fasten the rubbers at the rear of a single stick or frame. It is bent from light wire and the squared portion is made the same size as the stick and bound to it with thread. The next two squares (Figures 3 and 4) contain examples of cans or rubber guides. These are very important and useful fittings on a model because they are fastened along the sides where the rubbers pass and distribute the strain of the rubber pull. They serve the same purpose on a model that agate eyes do on a fishing rod.

Figure 5 shows a bearing which is used to support the rotating propeller shaft. It is the type most commonly used and can be easily constructed by beating and bending a small wire nail, after which a hole is drilled in the end intended for the shaft. This hole should be big enough for a hat pin. The long part is bound to the motor frame.

Figure 6 shows another type of propeller bearing known as the comet type, because the profile view of it resembles a comet. It is formed by bending a piece of strip metal, preferably phosphor-bronze, although tin or brass may be used, around a short length of tubing. The tubing is soldered in place. The propeller shaft is, of course, very important and four types are illustrated in the drawing. Figure 7 shows the plain shaft which is commonly used. It is made from piano wire or a similarly stiff wire about 1-100 of an inch in diameter. It is secured in the propeller by bending over the end as explained in the article on propellers.

Working With Copper
In the construction of scale models and occasionally in scientific models, sockets are used for receiving the ends of struts and cross pieces. These tube sockets (Figure 8) can be easily made by taking a small piece of copper tubing and cutting it off to the length desired, after which one end is squeezed together, preferably in a vice. The squeezed portion can be either left straight or bent at an angle, depending upon the position where the socket is used. Sockets are fastened to the frame by screws or nails through the tongue, and the strut, which is held in the barrel of the socket, is retained by a small nail for which a hole is shown in each view.

Figures 9 and 10 show "S" hooks. These are very useful fittings and are employed where it is desired to unhook the rubber motors from the nose hook in order that they may be wound up with a geared winder. The first type is intended to be constructed from coarse wire and the second is intended to be made from small piano wire. As will be observed, the second type has the end of the hook turned so that it will engage the shank. This prevents it from opening up under the strain of the rubber pull.

Tomorrow: How to build a plane that will fly at least a minute.

BASEBALL STANDINGS OF LEAGUES

Pacific Coast			
	W.	L.	Pct.
Oakland	91	56	.619
Seattle	82	63	.566
San Francisco	82	65	.558
Sacramento	74	73	.503
Portland	71	74	.490
Hollywood	67	81	.453
Mission	65	83	.439
Los Angeles	54	93	.367
National			
Chicago	70	42	.625
Pittsburgh	65	47	.580
St. Louis	64	48	.571
New York	64	52	.552
Cincinnati	62	60	.509
Brooklyn	49	66	.426
Boston	45	65	.409
Philadelphia	42	71	.372
American			
New York	82	34	.707
Washington	66	48	.579
Detroit	64	48	.571
Philadelphia	64	52	.552
Chicago	64	62	.509
Cleveland	48	68	.414
St. Louis	45	69	.395
Boston	36	78	.316

LEADING PLAYERS OF BIG LEAGUES

(Associated Press Leased Wire)
Including games of August 19.
National
Batting—P. Waner, Pirates, .383.
Runs—L. Waner, Pirates, 102.
Hits—P. Waner, Pirates, 178.
Doubles—P. Waner, Pirates, 33.
Triples—P. Waner, Pirates, 17.
Home runs—Williams, Phillies, 23.
Stolen bases—Frisch, Cardinals, 34.
Pitching—Meadows, Pirates, won 16; lost 5.
American
Batting—Simmons, Athletics, .393.
Runs—Gehrig, Yankees, 120.
Hits—Gehrig, Yankees, 169.
Doubles—Burns, Indians, 44.
Triples—Manush, Tigers, 15.
Combs, Yankees, 15.
Home runs—Gehrig, Yankees, 29.
Stolen bases—Slater, Browns, 24.
Pitching—Hoyt, Yankees, won 17; lost 5.

COAST LEAGUE RESULTS

(By the Associated Press)
Pounding Turpin, the Seal twirler, for a total of 14 hits, at least one of which came in every inning, Portland defeated San Francisco 7-5 for its fourth straight win this week. A three run rally by the Seals in the ninth fell short of tying the score.
An error in the tenth inning by Bob Hasty, the Oakland pitcher, sent the winning run across the plate for the Missions, giving them a 6-5 victory over the league-leading Oaks.
Sacramento scored another victory over Hollywood 5-2.
Driving Weatherly, the Angel pitcher, off the mound in the early innings, Seattle continued its slugging to defeat Los Angeles 11-4.

MAJOR LEAGUE RESULTS

(By the Associated Press)
The National circuit began yesterday under four double headers, the Cubs dashing away with an equal break in Brooklyn while everything was even with the Pirates and Giants as well as with the Cardinals and the Braves. Chicago's hold on first place continued at five games over the Cardinals.
Shoroff Blake handcuffed the Robins with five hits as his mates whitewashed Brooklyn for their twelfth shutout, 3-0. In the succeeding fracas, however, McWeeny eased Wrigley's henchmen down with five safeties for a 6-1 verdict.
Pittsburgh pummeled the Giants in the opening melee 9 to 3 and New York went back for the night cap and won 5 to 2.
Kent Greenfield handed out only a pair of singles as Boston took the world champs into camp in the first part of a twin program, 6-1, but behind Pitcher Sherdel the Cards made off with the after piece by the same score.
Cincinnati bumped the Phillies off twice by 5 to 3 in ten innings and 1 to 0.
Blakeship staved off a squeaking for the White Sox, defeating the Yanks in the fourth and final clash of the series by 3 to 2. Rube Walberg came through with a timely single in the eighth inning to drive in two runners for a 5 to 3 Philadelphia triumph over the Indians.
Wingard checked the Senators with six hits while St. Louis annexed its third straight by a 6 to 1.
A double victory over the Red Sox by 5 to 2 and 14 to 7 pushed the Bengals to within one game of the second place Washingtons.

LINEN LUNCH SETS, \$1.00
Pure linen cloth and 4 napkins. Assorted color stripes. One of the big specials at Carr's dollar days, Sat. to Wed.

WELL AGAIN
We have testimonials from many persons who are well again after suffering with backache, intestinal, kidney and skin diseases, piles, ulcers, rheumatism and other disorders. We can help you also.
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Yick So Herb Co.
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The ten-year-old evangelist, Richard Hedrick, who has preached from many of the large platforms in the east, will hold a meeting in the Bible Standard Temple here.

The meetings will begin Sunday, Aug. 21st, and continue for four days.
Richard is known as the "Little Minister." He was at one time the wonder child of the stage; but was converted from the movies to the ministry. Richard has spoken, and played his violin over the radio.

HIDDEN VALUE IN NEW BODIES

Many coach building practices found heretofore only in the finest custom built motor cars and several innovations in the art are found in the new bodies of Dodge Brothers Senior Line, according to J. O. Newland, of J. O. Newland and Son, local Dodge Brothers dealers.

"Behind the attractively finished panels, behind the beautiful lines, behind the comfortable, luxurious upholstery and trimmings, underneath the features which make the first appeal to the eye," Mr. Newland explains, "are hidden values—features of construction which insure against noises and rumbles to which most any body is subject when the car travels over uneven pavements or rough roads."

"In Dodge Brothers' new engine with its 49 pound crankshaft, no engine vibration is to be found at the highest speeds. Body rumbles may result from engine vibration or from rough pavement or roads.

"To give absolute insurance against body noises or 'drumming' each panel is padded with one quarter-inch felt. In addition the whole body is insulated from the chassis frame by thick felt strips. These applications of felt padding make the Senior bodies notably free from all noise."

"The method of making the rear body panel is of interest to both owner and the body builder. From one rear door to the other and from the roof to the lower sill this panel is without any evidence of joints or seams. The three stampings are welded together on newly developed electric welding machines to form a single piece and the completed joints are so perfect as to present a clean, smooth, unbroken surface."

"While it is quite general practice in automobile building to leave seams which show as such in the finished body and at other places to cover seams with metal moldings and no open seams in the Dodge Brothers' 'Six' bodies. Even where the metal of the windshield pillar is joined to the metal of the cowl the welded joint is invisible."

"Genuine hair pads of exceptional quality are used over the upholstery springs. The fine mohair or broadcloth is so tacked to the cushion and seat back frames that the tacks are entirely concealed without the use of bindings—a practice rarely found except in custom built jobs."

TEN DAYS FREE TRIAL
We will deliver for your approval our famous "Moor-Rest" double deck bedspring and let you use it for ten days without charge. If you wish to buy we will allow you a good price for your old spring as part pay. These springs are sold regular at \$20.00. As a special inducement during the dull season we are offering these at the low cost of \$15.00. We guarantee these to give perfect service and to last 20 years. Phone us or write, or best of all come in and see these springs. We carry a full line of beds, springs and mattresses. Powell Furniture & Hardware Company, 228 and 240 North Jackson St., Roseburg, Douglas County, Oregon. Phone 538.

FOR AUGUST WE ARE OFFERING DOZENS OF EXTRA VALUES

Carr's Dollar Days

Saturday, Monday, Tuesday, Wednesday, Aug. 20 to 24

VALUES TO \$1.95 FOR \$1.00. YOUR CHANCE TO SAVE.

Crochet Bed Spreads, white, good weight fabric, each	\$1.00
Crib Blankets, nursery figures, large size, ea.	\$1.00
Suede House Slippers, ass't sizes and color, pair	\$1.00
Home Frock Dresses, a Wonder Syndicate Special, each	\$1.00
Tokonobe Vases, large 12 to 15 inch size, ea.	\$1.00
Linen Lunch Set, cloth and napkins, buy now, set	\$1.00
Serving Trays, glass bottom, wood frames, now, each	\$1.00
Krinkle Bed Spreads 80x90, colored stripes only, each	\$1.00

PURSES, SCOOTERS, DOLLS, GLASSWARE, ALUMINUM, TOWELS, PICTURES, SILVER PIECES, SCARFS, RUGS, ETC.

FORMER ROSEBURG MAN WILL ENTER WRIGLEY CONTEST

PORTLAND, Aug. 20.—Add to the list of those who expect to win the Wrigley \$50,000 marathon swim the name of L. E. Bener, of Portland. Bener, who is a Southern Pacific train dispatcher, will leave Portland today for Toronto, Canada, where he will begin training immediately in Lake Ontario for the race which will begin on August 31.

For three months Bener has worked out in the Columbia river in anticipation of the Wrigley meet, and he feels absolute confidence in himself to win. He uses an overarm side stroke and hopes to maintain an average of a mile in every 40 minutes over the 21-mile course. In training he claims an average of 35 minutes to a mile over a ten-mile course.

"I originally intended to enter the Catalina Island swim," Bener

declared yesterday. "But I found the water too cold. The Catalina temperature was 52 degrees. Four hours in that would be about the limit for me. In the Columbia, where the temperature is approximately ten degrees warmer, I can remain in the water indefinitely. The water at Lake Ontario is almost exactly the same temperature as the water here, so I feel certain that I will not be bothered with the cold there."

Bener is exceptionally well built, standing 6 feet tall and weighing 190 pounds. He has a massive chest and well-muscled arms. He will be the third swimmer to leave Portland for the marathon swim within the last couple of weeks. Martha Stager was the first. She will swim through the efforts of the Portland Chamber of Commerce. Russell Bush, Woodland, Wash., youth was the second. Jack Pobchenko, noted lifesaver, trained Miss Stager and Bush. Bener is his own trainer.

Mr. Bener is well known in Roseburg having resided here for several years while employed as a dispatcher at the local office.

Parabene Motor Oil 100 per cent pure paraffine base. At General Independent Dealers.

OBITUARY

SAGABERD.—Frank B. Sagaberd, the son of Mr. and Mrs. Wm. Sagaberd, Sr., deceased, was born at Scottsburg, Ore., April 3, 1874, where he resided until he was seventeen years of age. He then went to Gardiner and worked as deck hand on the steamer "Eve," later he was engineer on the same boat for twenty-five years. After wards he was captain of the launch "Sunrise" running between Gardiner and Scottsburg, where he worked until taken ill a month ago.

July 28, 1901, he was united in marriage to Mary R. Luder of Scottsburg, to this union was born one daughter, Margaret F. Sagaberd. He was a member of the Gardner I. O. O. F. Lodge No. 132, Riverdale Rebekah Lodge No. 100 and a Charter Member of the White City Encampment of Gardner.

He died August 15, 1927, at the Wesley Hospital at Marshfield. He leaves to mourn his death a widow, Mary Sagaberd and one daughter, Margaret Sagaberd, also three sisters, Mrs. Minnie Graham of Gardiner, Mrs. Paul Levenha-

gen of Scottsburg, Mrs. Kate Sally of Drain, three brothers, August and Gard Sagaberd of Scottsburg, and Henry Sagaberd of Gardiner, and a host of loving friends and neighbors.

Try Watkins' whole mixed spices for pickling. Phone 177. 120 W. Lane St.

DIVERS AID NARCO. TIGER SMUGGLERS

SEATTLE.—The breaking up by federal authorities of a opium smuggling ring has revealed that the contraband drugs were brought into the United States through the cooperation of deep-sea divers. Opium brought into Puget Sound on ships arriving from the Orient was dropped into the water, alongside the concrete piers. Then agents of the ring would communicate the location of the packages to divers who would bring them up when no ships were at the pier. The arrest of a diver and his assistant revealed that as much as \$1,500 was paid him for a single night's work in rescuing the drugs. Officers believe that this is the way in which most of the opium has been brought into the country recently.

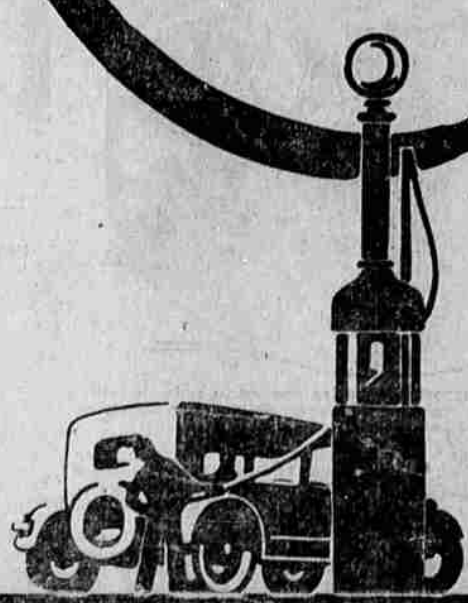
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