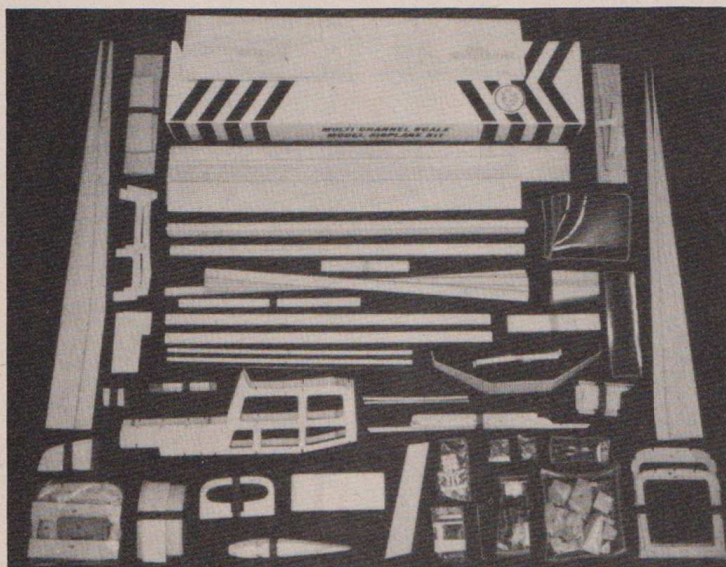


# RCM PRODUCT REVIEW

## Royal Products CESSNA 182 SKYLANE



**T**his Cessna 182 Skylane kit is distributed in the United States by Royal Products, 790 West Tennessee Avenue, Denver, Colorado 80223. It is basically designed for Scale or Stand-Off Scale using a .45 to .61 cubic inch displacement engine.

The Cessna is a well engineered model that could very well be used as a multi-trainer. It is extremely stable and has a very flat glide, yet it will do most all of the maneuvers. Take-offs and landings are really smooth.

The kit is packaged neatly and compactly in a two piece cardboard box that is 44" long, 10" wide, and 5" deep. The contents are nested tightly so they will not shift and damage each other or the plastic windshield or wheel pants. The small parts, made of balsa, hardwood, and plywood, and the hardware are packaged in two plastic bags. All of the wood parts are clearly lettered and numbered designating their location on the plan. The hardware is the usual: control horns, bellcranks, bent wire landing gear, nuts, bolts, screws, etc.

### Construction:

Two 31.5" x 62" sheets of plans are full of cutaway drawings and scale details. All of the parts are numbered on the plans in every view and cutaway drawing in which they can be seen. This makes it very easy to locate the corresponding numbered parts.

The quality of all the balsa and plywood is above average. The die-cutting is very good, especially in the plywood. Most of the die-cut plywood parts fall out with a light push. The machined and pre-fabricated parts are extremely accurate and require little or no trimming.

The wing and tail are conventional built-up construction with balsa ribs, spars, leading edges, etc., and completely sheeted with 3/32" balsa. The fuselage is built up with 1/8" plywood bulkheads, balsa stringers, and 1/8" balsa sheathing. The cowl and nose are formed with a series of well positioned balsa blocks, carved and sanded to the proper shape. We used Ambroid cement, Devcon

## SPECIFICATIONS

|                                            |                                                                           |
|--------------------------------------------|---------------------------------------------------------------------------|
| Name .....                                 | CESSNA 182 SKYLANE                                                        |
| Aircraft Type .....                        | Sport Scale                                                               |
| Manufactured By .....                      | Royal Products Corp.<br>790 West Tennessee Ave.<br>Denver, Colorado 80223 |
| Mfg. Suggested Retail Price .....          | \$89.95                                                                   |
| Available From .....                       | Both Mfg. & Retail Outlets                                                |
| Wing Span .....                            | 72.5 Inches                                                               |
| Wing Chord .....                           | 10.75 Inches                                                              |
| Total Wing Area .....                      | 700-4/5 Square Inches                                                     |
| Fuselage Length .....                      | 55.75 Inches                                                              |
| Stabilizer Span .....                      | 23.65 Inches                                                              |
| Total Stab Area .....                      | 165 Square Inches                                                         |
| Mfg. Rec. Engine Range .....               | .45-.61                                                                   |
| Recommended Fuel Tank Size .....           | 12 Ounces                                                                 |
| Recommended No. of Channels .....          | 4                                                                         |
| Recommended Control Functions .....        | Rud., Elev., Throt., Ail.                                                 |
| Basic Materials Used In Construction:      |                                                                           |
| Fuselage .....                             | Balsa & Ply                                                               |
| Wing .....                                 | Balsa & Ply                                                               |
| Tail Surfaces .....                        | Balsa & Ply                                                               |
| Building Instructions on Plan Sheets ..... | Yes                                                                       |
| Instruction Manual .....                   | Yes (14 Pages)                                                            |
| Construction Photos .....                  | Yes                                                                       |

## RCM PROTOTYPE

|                            |                   |
|----------------------------|-------------------|
| Radio Used .....           | Kraft             |
| Engine Make & Disp. ....   | Enya 60 III BB TV |
| Tank Size Used .....       | 12 Oz.            |
| Weight, Ready To Fly ..... | 8.5 Ounces        |
| Wing Loading .....         | 28.33 Oz./Sq. Ft. |

## SUMMARY

### WE LIKED THE:

Detailed plans with its cut-away drawings and locations of parts by numbers. All parts are numbered and easily located on plans. The molded one piece plastic wheel pants. The fidelity to scale.

### WE DIDN'T LIKE THE:

Clear plastic for windshield and other windows. Found none of the glue effective. 5 minute epoxy seemed to do best, you can wash it with lacquer thinner or acetone with no damage. Bulkheads in fuselage too far apart, sheathing dips between them.

5-Minute epoxy, and Elmer's Professional Carpenters glue to hold all these bits and pieces together. No special tools or equipment are required to build the 182.

### Covering:

For covering our model, we used World Engines silk. Randolph's clear nitrate thinned 50-50 with acrylic lacquer thinner was used to seal all the surfaces; it took four coats. We applied the silk with nitrate dope and used four coats of nitrate to seal the silk. Two coats of Randolph's Clear butyrate dope were added to give the finish more flexibility. We then painted the entire aircraft with white acrylic lacquer and trimmed with red and blue acrylic lacquer. The lettering is hand cut from Sig's solid color decal sheets. Doors and cowl louvers are painted.

### Engine:

We chose an Enya .60 III BBTV for its power and dependability through all speed ranges. We used no muffler on the 182, but we did install a metal baffle plate between the exhaust port and the cowl to keep the heat off the wood cowl. The engine is mounted on hardwood rails built into the nose of the plane. The 12 ounce RST



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BAMA FLIES AIR SHOW TEAM  
905-C VALLEY AVE.  
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MANY THANKS  
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Super Hustler is second to none in power, reliability, and durability.

### SUPER HUSTLER SPECIFICATIONS

|                        | SAE                         | METRIC           |
|------------------------|-----------------------------|------------------|
| Displacement           | 2.6 cu. in.                 | 42.6 cc          |
| Bore x Stroke          | 1.5625 x 1.375 in.          | 39.69 x 34.92 mm |
| Weight                 | 104 oz.                     | 2.95 Kg          |
| Thrust (6800-7100 RPM) |                             |                  |
| 20 x 8 Hustler prop)   | 23-24 lbs.                  |                  |
| Fuel                   | 20 to 1 Regular Gas/Oil Mix |                  |

Price ..... \$199.95



**PROPS**  
Hustler 20 x 8 - for Super Hustler ..... 7.95  
Hustler 18 x 6 - for Quadra ..... 6.95  
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**SPARK PLUGS**  
RCJ6 ..... 1.95  
RDJ7J a short plug for close cowling installations ..... 1.95  
RCJ6 ..... 1.95

**BUILDING MATERIALS:** basswood, aluminum tubing, aircraft plywood

**Quadra Package:** Includes 6 bolt hub, extra plug, two props, throttle link, exhaust tube, six ft. fuel line, & C.B. mount ..... 149.95

**Quadra** ..... 90.00

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### CESSNA 182 SKYLANE

Sullivan tank mounted just behind the firewall will fly the 182 for twelve to fifteen minutes.

#### Radio:

A Kraft KP-7C radio with four KPS-15 II servos does a good job horsing the 182 all over the wild blue yonder. There is enough room in the cabin area to stash half a dozen such flight packs. We used only one flight pack and put all of it in front of the main landing gear for balancing. Keep the C.G. as shown, or slightly forward.

#### Flying:

For the first flight, we trimmed the

elevator with about three degrees down. This proved to be too much and we had to set it back to neutral. With all control surfaces in neutral, the 182 is right in the groove.

The Cessna is a stable flyer, but don't be afraid to stunt it. It is highly maneuverable and can really take it.

#### Conclusion:

Building the Cessna is not for the beginner or near beginner, but the near beginner could have a ball flying it.

To sum up the Cessna 182 Skylane, if you want a good Sunday flyer, a good week day flyer, a good fun flyer, or a good competition scale or sport scale flyer all in one, you can't go wrong with Royal Products' Cessna 182 Sr. kit. □

**SOLO and SAKER:** Solution Aeromodel's one-two punch for the beginning and novice R/C flyer.



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