COWLING

NOTE: For proper alignment of the cowls, the engine should be temporarily mounted on the fuselage. It is important to do as much aligning of the cowling parts as possible before much trimming is done. The existing scribe lines are approximate guide lines, but may not be exact for your installation.

<u>STEP</u> 3/4" (1): above the joggled edge, Trim the Camlock flange straight and 0 f the flat #44010 Aft Bottom Cowling ç

STEP (2): Top Cowli Top Cowling, to joggled edge of File and sand the horizontal g, to a straight line that the lower cowling. split-line will mate edge ď properly on the #44009 with Aft the

ij molded spring clamps to STEP (3): exactly match. very fuselage. the Camlock tabs on the (3): Remove the muffler for now, and use plastic or rubber-tipped of clamps to temporarily clamp the #44010 Bottom Cowling to the lage. The split line should be approximately 17 1/2" up from the bottom of the longerons (See Fig. E-C-1). There are five dimples ed into each side of the cowling which should line up with the holes be Camlock tabs on the fuselage. Due to varying amounts of shrinkage he welding process and curing of the fiberglass parts, they may not tly match. Don't drill these Camlock holes yet.

STEP Bottom cowling. Make sure you have the front face edges flush with each other. You could clamp some strips of 1/4" thick wood or other material to both sides at the front to ensure this. (4): Tape the #44009 8 #44055 Aft Top Cowling 60026 ç O the #44010

STEP Ring yet. (5): I to 3/4" Fig. E E-C-1. Trim and rim and sand the Camloc above the joggled edge. Camlock C flange Do not t e of the trim to the aft **#44011** Bottom scribe Cowl line

middle ring in place on the bottom cowl ring be sure you have the pushed in tight and flush on both parts. Locate and drill 3 on each side of the cowl rings for Camlocks, clecoing as y front (#30) holes should be 2 3/4" back from the edge of topening and the aft holes 3/4" forward of the scribe lire. STEP mating g mate (6): edge holes. with the joggled edge of the bottom cowl ring. Tape the top place on the bottom cowl ring be sure won have the top in tight and for All XTS holes should be 5/16" clecoing as you go. the edge of the cir scribe lire. Cente ďn and drill 3 from Tape the top cowl the (#30) holes horizontal Center circular edges

part nu 44055. and earlier #44056 number 44009. Model The Kitfoxes 44009. Model IV Kitfoxes use top cowl part number standard fuel tank filler neck for the Model III Kitfoxes is P.N. E-21, the Model IV filler neck is III Kitfoxes after E-21, serial #968 use the đot cow1

REVISION	DENNET
DATE 11 Sept 91	
SECTION Engine	PAPT C
PAGE E-C-1	OMPANY

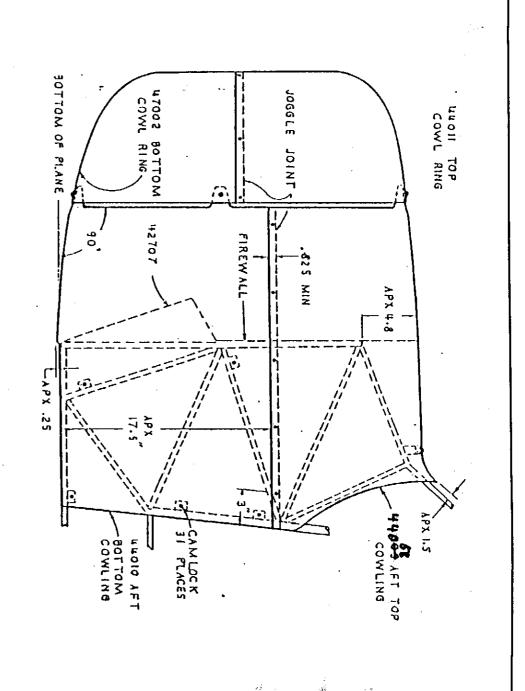
MODEL 4

ASSEMBLY Sub. Sec.

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Cowling

KITFOX



COWLING DETAILS Fig. E-C-1

the clamps **STEP** (7): smooth location, desired contour at tion, back-drill the on the aft line when the Fit the cowl ring and viewed from the bottom cowling and reposition the pur at the top. When you are sa cowl ring cowlings through the Cam the assembly to the me top of the af side. ne aft top cowling should form a If it doesn't, loosen the spring front Camlock tabs. of the main satisfied parts until you get with cowl. their The

ring NOTE: opening, The prop hub normally will be slightly high in the pening, 1" to 1 1/2" above the lateral centerline. cowl

Cowl matched up with edge of the main daylight between STEP (8): Rings between with the aft Trim the ç Trim the or cowl or near aft main aft edges the cowling, they --- when edges of the main cowls even with the back of the t edges of the #47002 and #44011 Top and Bottom and scribe ring of. they should appear COW1s when you with Viewed #44011 9 flush from ď alignment. with to 1/2 the the front /2 inch of When

1	96	11 20/20 / 1		Sub. Sec. C - Comming	KITFOX
F-C-2	Engine	DATE 11 Sept 91	REVISION	ASSEMBLY Compline	MODEL 4
COMPANY					
			DENNEY		

approximately horizontal post scribe t scribed edge. The rest of the eft of the extimately 5 1/2" intervals, leaving the front edge. ples along each side of the main conclusions the should be 3" forward of the document the Camlocks will be spaced forward leaving the forward holes approximate approximately door-ard at COWL

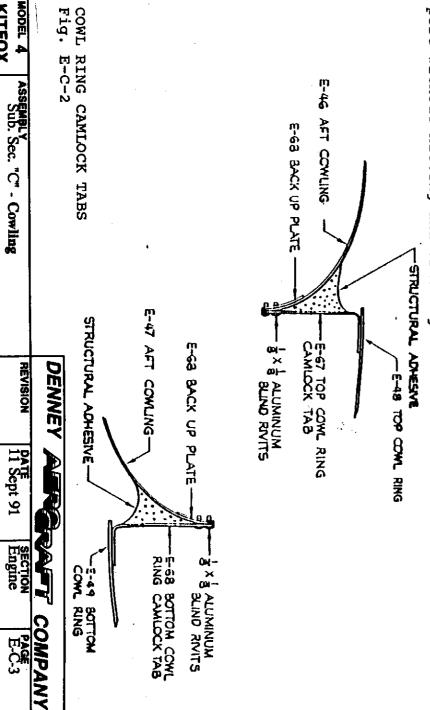
NOTE: engine mount. If you have add two additional Camlock cowls main style cowls lower ring cowls. to the bottom as cowls ţ Builders Camlock ç o litional Camlock tabs to help support the upper and cowls. Add one to the top of the main cowl and one iom as shown in Fig. E-C-2. If you have the newer just use one Camlock on each of the "bumps" () to support the ring cowl of earlier Model III kits will fasten the ring

E-26 Fuel Tai Installation, Step Tank 10 can be completed after temporary installation of the Tank and E-21 or #44056 Filler Neck. See Fuel Tank

STEP E-21 E-21 or #44056 Filler Neck, cut a hole in the #44009 Cowling using a 2" hole saw and a coarse half round file saw). Allow clearance for the E-20 Fuel Filler Car (10): After locating proper placement of the "cut out or #44055 (or a 2.5" hole" for #44055 5 Top hole the

direct quide, installation refer to The Cover and Finish Section. note that When line aligning Camlock receptacles or using a Camlock dithat the "wing" of each winged Camlock stud falls with the receptacle rivet holes. For Cam Camlock H

post STEP door (11): without hitting and cracking the 9 Cut ut a small notch in the rear edge each side, to allow the door lat COWL. latch 0f the pin top cowling, at to strike the door the



KITFOX

Cowling

FIREWALL

approximately 2". Rivet the parts togeth The 42712 Firewall Edge Stiffener angle front of the rudder pedal return springs. cabin side of the firewall. cleco contains ns 42707, 42708, together as sh Build Rivet the parts together using the 1/8" X 1/8" rivets.

1 Edge Stiffener angles should be placed <u>directly in</u>

r pedal return springs. Install the rivet heads on the the 42709, own in lower 42710, Fig. 1 section of the firewall. The 42711 and 42712 parts. This Drill section and

- STEP (2): firewall firewall for the starter motor. Measure from the underside, of the fuselage up to the starter motor. Add 1/2 its diameter. Measure from each side at an appropriate point. Log your measurements for the starter cutout. Remove the complete engine mount with engine attached. Remove the the cowling. : starter motor. It's necessary to make a underside of er. Measure cutout the the
- underneath the floor Slide it sideways to parallel of the rudder pedal recesses run across the fuselage Clamp it in position at the top and the bottom. horizontal center. the <u>fuselage</u>. (3): t o <u>uselage</u>. Trim the The top edge of the tube the floor. Position that floorboards center of the lower half of the firewall should cover the runs between the outermost engine mount bushings. the bottom but above the floorboard mounting anglit with the center of the starter motor flange to clear the fuselage tubing at flange of the Be sure firewall Į, mounting a straight the top corners lower angles. half line and the

NOTE: The #42705 section of the firewall will be added later and should fit on the outside of the fuselage tubing beneath the floor.

the the top half through the t STEP (4): horizontal section. engine side clamp in place.
alf with approx e two sections tube behind it Position the top half of and overlapping the vertical flange of the lower firewarin place. Lay out the rivet spacing on the lower edge ith approximately 2" -2 1/2" spacing. Drill #40 holes sections of firewall and into the EXACT CENTER of the exact of it. Cleco. the firewall with its bottom vertical flange of the lower i Drill #40 holes lower firewall edge the 0f ဓ္ဌ

	DENNET		AFF (COMPANY
Firewall	REVISION	DATE 11 Sept 91	SECTION Engine	PAGE E-D-1

MODEL

Sub. Sec.

KITFOX