

THE SHADOW

SERIES B

KIT

INTRODUCTION

In response to considerable demand we have designed a total package that will enable the aircraft to be built from a Kit that has four identifiable stages:

- | | |
|---------|---|
| STAGE 1 | FUSELAGE (including LANDING GEAR) |
| STAGE 2 | WINGS (including CENTRE SECTION and BOOM) |
| STAGE 3 | TAILPLANE, ELEVATOR, FIN POST and RUDDER |
| STAGE 4 | ENGINE (including PROPELLER) |

The Construction Manual comprises PROCESS SHEETS, BOLTS LIST, PARTS LIST, COMMERCIAL ITEMS LIST, STAGE BUILD DRAWINGS and STAGE BUILD INSTRUCTIONS.

All 'Critical' items have been jig produced to ensure accuracy and repeatability.

The Main Spar and complete 'D' Section will be produced in our Factory; this is to be certain that the correct assembly environment has been maintained and that specific alignments have been checked.

There is no requirements for jigs, special tools or equipment. There is no machining, forming, welding or bending to be effected.

The Kit does NOT contain adhesives, resins, dopes or paints. Details of these items are given and alternatives recommended. This is to facilitate packaging, transportation and to avoid the problems of the 'Shelf Life'. Flight and engine instruments are also not included.

CFM METAL-FAX LTD. will not comment on, nor provide any form of analysis on modifications undertaken by the builder. Any deviation from the plans or structural components is considered your sole responsibility and may well invalidate the Type Approval for the aircraft.

We also reserve the right to amend the SHADOW plans, specifications and Construction Manual as may be necessary.

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STAGE DETAILS

STAGE 1 - FUSELAGE CONSTRUCTION

The monocoque fibrelam is pre-cut to shape, routed and drilled. Nose cone is pre-formed. Canopy screens are pre-shaped. Hanger tubes cut to length, coined and jig drilled. Wheels, tyres and tubes with complete brake assembly are included - Fuel tank components pre-cut - Hand primer bulb and filter - Seat belts - Ignition switch and all electrics - Engine mounting plates and 'Lord' mounts.

STAGE 2 - WINGS CONSTRUCTION

The Mainspar and complete 'D' section are already Factory produced. All ribs have been 'hot-wired' to shape. The rear spar, drag and compression struts are pre-shaped. The Boom is included in this stage.

STAGE 3 - TAILPLANE CONSTRUCTION

Tailplane leading edge tubes pre-bent to shape. All the other materials are provided for tailplane, elevator, rudder and fin post.

STAGE 4 - POWERPLANT

The engine is supplied complete with all ancillary equipment i.e. alternator, recoil hand start system, sparking plugs, carburettor, exhaust unit, reduction drive unit and propeller.

NOTES

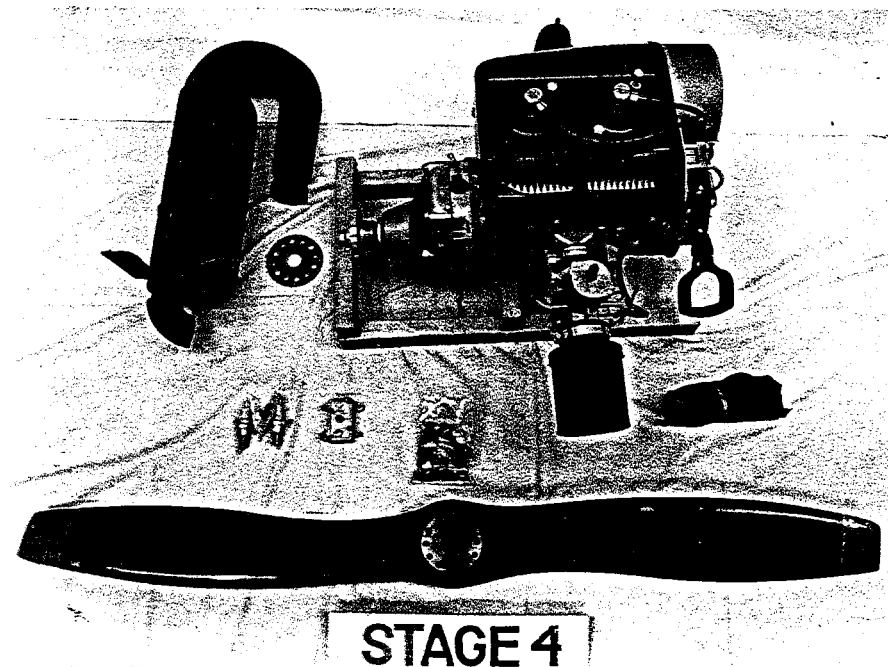
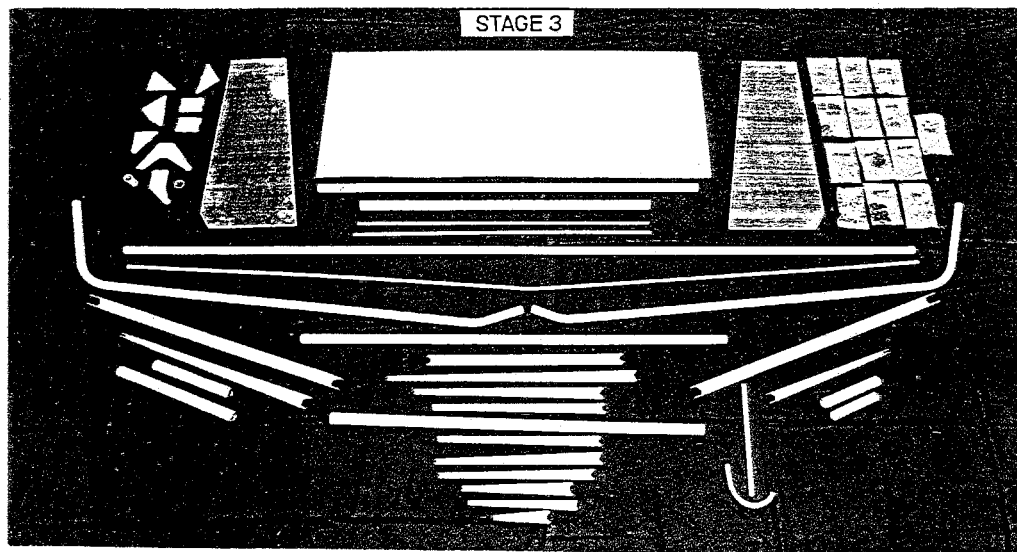
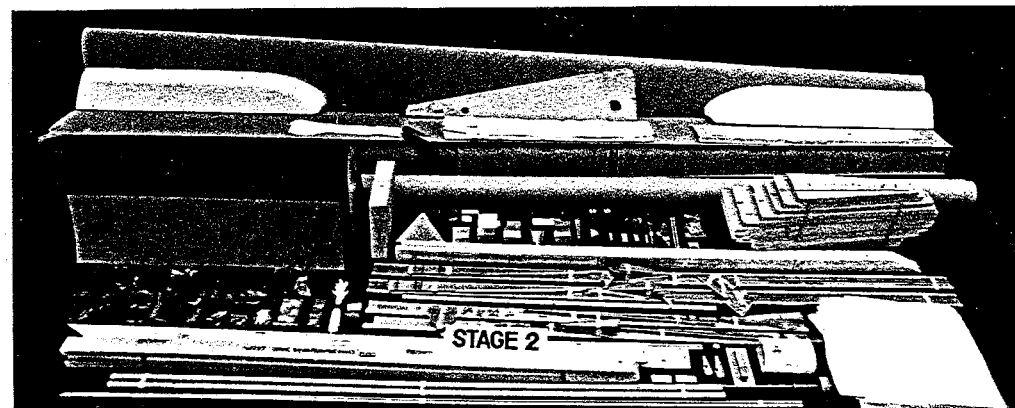
1. All Factory manufactured parts are cut out, formed, shaped and pre-drilled as necessary - they only require edges to be dressed and smoothed.
2. All Welding completed, both ferrous and non-ferrous.
3. All tube bending complete.
4. All foam parts (except wing tips) have been pre-formed.
5. A comprehensive 'Hardware' Kit is provided - aircraft bolts etc.
6. All 'Commercial items' are listed and included.
7. Glass cloth - both bi-directional and uni-directional is supplied.
8. Adequate polyester fabric for covering.
9. A comprehensive 'CONSTRUCTION MANUAL' accompanies each stage, and there is a Photographic Supplement to complement these.

CFM METAL-FAX LTD.,
UNIT 2D,
EASTLANDS INDUSTRIAL ESTATE,
LEISTON, SUFFOLK IP16 4LL
TEL. NO. 0728-832353

THE SHADOW - SERIES B

3 AXIS MICROLIGHT

38-108 MPH (VNE)
FLAPS & DIFFERENTIAL DISC BRAKES
FULLY ENCLOSED BOTH COCKPITS
ROTAX 447 ENGINE
EMPTY WT 331 LBS. MAX AUW 767 lbs
PILOT PLUS PASSENGER



send for colour video - £10

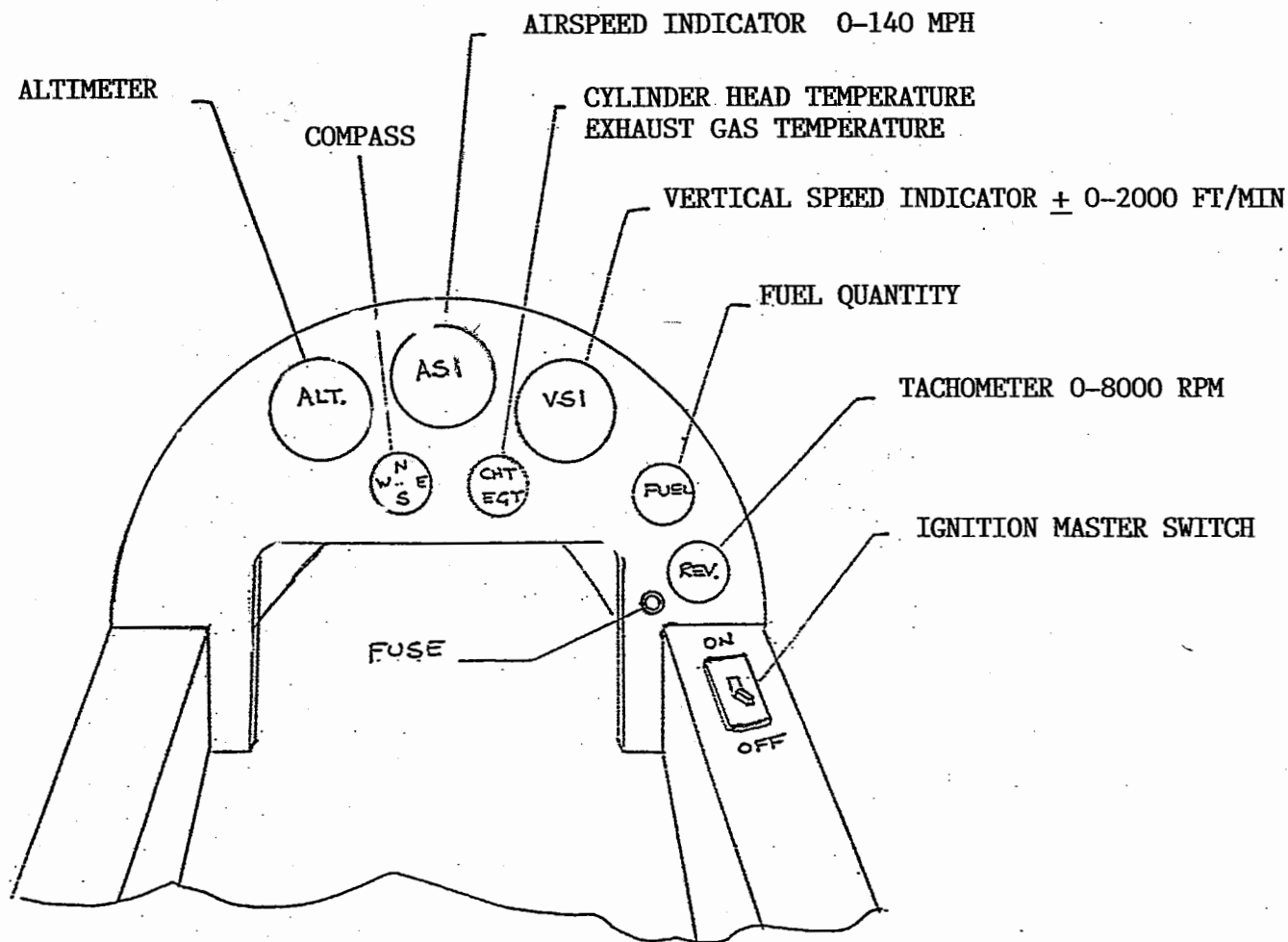
THE SHADOWSERIES BITEMS NOT CONTAINED IN KIT

SERIAL	ITEM	QTY	PURPOSE	RECOMMENDED SUPPLIER
1	EPOXY RESIN	6 kgs	FIBREGLASSING	SAFE-T-POXY) ex MATL. SUPPLY (APCO 2410 RESIN+) SPECIALISTS, 2183 HARDENER) BOOKER AIRFIELD NR. MARLOW, BUCKS <u>SCHERING:</u> EUREDUR and) ex CFM METAL-FAX EUREPOX) LIMITED
2	EPOXY RESIN	3 x 500 g PACKS	BONDING	ARALDITE NO. 2005A & B CIBA GEIGY FROM STRAND GLASS - or generally available
3	ADHESIVE	1 LTR	FABRIC ATTACHMENT	BOSTIK NO. 1 CLEAR - generally available
4	DOPE/LOW TAUTENING	1½ GALL	ALL FABRIC SURFACES - CLEAR ALUM- INIUM SUR- FACER	NEOGENE PAINTS. PRINTA INK and PAINTS LTD. NEOGENE WORKS, 65 ALFRED ROAD, LONDON W2 5H4 TEL. 01-289-2271
5	PAINT	5 LTRS MINIMUM- as reqd.	FINISHING - ALL SURFACES	INTERNATIONAL PAINTS, FLEXIBLE POLYURETHANE 66 FINISHES 'MEDLAB' DERBY LIGHT AERO SPARES, LITTLE EAST BADWORTHY FARM, SHEBBEAR, BEAWORTHY, DEVON EX21 5RQ TEL. 040-928305 & 928610
6	FLIGHT and ENGINE INSTRUMENTS			SEE NEXT PAGE FOR RECOMMENDED PANEL/LAYOUT

NB: Cost of the above materials -

£150

NB: Cost of these instruments would be in the region of £450 (incl. VAT) - the ALTIMETER/ASI and VSI being ex RAF reconditioned items.



INSTRUMENT PANEL LAYOUT

NOTE: NEVER FLY WITHOUT AN A.S.I.

THE SHADOW - MK I

SERIES B

KIT PRICE LIST

Single Control (*)		£7,020
Dual Control		£7,500
* If 'Footwell' required (for rear cockpit)		£ 150
Custom Built Trailer/Hangar		c £3,300

EXTRAS - can be purchased individually

Pilot's Note		£ 5
Service Manual		£ 15
Video - VHS or BETAMAX (PAL system only)		£ 10

NOTES

1. All prices are EXCLUSIVE of VAT @ 15%, packaging, freight and insurance.
2. A 20% deposit is required with your order.
3. Cheques to be made payable to 'CFM METAL-FAX LTD.'

N.B.

1. At present the Stage Inspections (1-4) can only be undertaken by CFM METAL-FAX LTD., but both BMAA and PFA Inspectors should be able to assist in the future when they are conversant with the aircraft's construction. Customers may either bring their 'stages' to the Factory or we can visit - (for charges see below).
2. Before the aircraft reaches the final inspection stage, application should be made on FORM CA 1 for Registration letters.
3. The Final Inspection stage must be carried out by CFM METAL-FAX LTD. It is our experience that some work will be required during the course of this check. On completion a FORM CFM 8 will be completed by us and subsequent application made to the CAA (via the BMAA) for a Permit-to-Fly for Test Purposes (PTFFTP).
4. When the PTFFTP is extant, the aircraft can then be check flown by one of the named pilots in our Company Exposition. On completion of the Flight Test Report (FORM CFM 9) application will be made by us on FORM CA 959 for a full term Permit-to-Fly for your aircraft.

SUMMARY OF COSTS

Application for Registration details	£ 16
Application for PTFFTP	£ 45
For all STAGE inspections a fee of	£ 25
plus 22p per mile	
The Final Inspection (FORM CFM 8) - 22p per mile and an inspection fee of	£ 25
should additional work be necessary this will be charged at £12 per hour	
For FLIGHT TEST prior to the applica- tion for the PERMIT-TO-FLY	£100
with travel expenses at 22p per mile, overnight charges may be included if unavoidable due to weather or distance.	

ALL PRICES ARE EXCLUSIVE OF VAT

THE SHADOWSERIES BKITMINIMUM MANDATORY REQUIREMENT FOR PERIODIC
CHECKS/INSPECTION BY QUALIFIED INSPECTOR

STAGE	ITEM	WHEN TO BE INSPECTED	DATE	SIGNATURE OF INSPECTOR	REMARKS
1	FUSELAGE - to include undercarriage	When complete but before the fitting of side panniers or nose cone.			Does not include nosewheel assy. at this stage.
2	BOTH WINGS CENTRE WING SECTION and BOOM	When complete but before any part is covered			
3	TAILPLANE ELEVATOR, FIN POST & RUDDER	When complete but before any part is covered			
4	ENGINE, FUEL TANK AND PROPELLER	When fitted to airframe			
	COMPLETE AIRCRAFT	Fully assembled. Covered and rigged.			CFM FORM 8 to be completed