mainairsports



Mainair Sports Ltd. Shawclough Road Rochdale Lancashire OL12 6LN Telephone Rochdale (0706) 55131/2/3 Telex 635091 MAIN

DOC REFERENCE TOM - 1-440 DUAL

AIRCRAFT COVERED:

Gemini Sprint
Tr (-Flyer Sprint
Striker Gemini
Striker Tr (-Flyer

Operation and maintenance manual

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The following manufacturers bulletins form part of this manual.

No.	Date Received
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SPECIFICATIONS - GEMINI TRIFLYER/SPRINT

Invoice	No	4	49	8	ø,	9	ę	0	ð	4	8	₽.	æ
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SPECIFICATIONS - POWER UNIT

Recomm-(ended

Serial No.	
Date of Manufacture	
Aircraft Registration No.	
Engine Model	440 FUJI Robin EC 44 FM
Engine Serial No.	
Reduction Type	Tooth belt
Propeller	62" x 27"
Dry weight	94.5KG-GEMINI - 86KG TRI-FLYER
Fuel Mix	32:1 - run in - 40:1 after 10 hours
Max Engine Speed	6900 rpm
Max Flight Engine Temps.	EGT 1500°F (815°C) CHT 425°F (218°C)
FUEL CAPACITY AND WEIGHT	4-75 GALS - 15KG.
SPECIFICATIONS - WING	
Manufacturer	Southdown Sailwings Ltd.
Model	Sprint
Serial No.	
Area	180 sq ft
Max Suspended Load	290 kg
Weight	48 kg

SPECIFICATIONS - COMBINATION

Dry weight	142.5 kg GEMINI - 134KG TRI-FLYER
Max total all-up weight	338 kg (2 x 90kg occupants 4.75 galls fuel)
Max load factor	4G
Load composition	1 or 2 occupants-max 180kg + fuel
Stall speed at max load	26 kts (30 mph) loss of height 100 ft -IA
Stall speed at min load	25 kts (29 mph) loss of height 90 ft
Stall height loss at 30°bank	85 ft - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Max nose down at stall	86
Cruise Speed	35 kts (40 mph) 388
Never-exceed speed (Vne)	51 kts (58 mph) 183
Permitted Manoeuvres	non-aerobatic angle of bank not to exceed 60°
Pitch Angle	Nose up/down not to exceed 300 - no whip stall
Approach Speed	Engine at idle 36 kts (42 mph)
Landing run at max load	Clear 15 Mtr obstacle 150 mts
Take-off run	Clear 15 mtr obstacle 172 mts at max load
Max Wind operating cond.	18 Kts (21 mph)
Max cross wind conditions	8 Kts 90° (10 mph)
Best rate-of-climb speed	34 kts (39 mph)
Power-off rate of descent	680 ft per min
Power-off Ground Distance Covered	5440 ft (still air)
Control bar sense	Push nose up, pull nose down, push bar right
	Bank left. Push bar left - bank right.

Note all speeds and Ins (inducated as Speed)

Note: Recommended maximum engine temperatures and speed can be exceeded for very short periods without immediate damage. However you are strongly recommended not to exceed the limitations at any time. Engine speed (rpm) cylinder head temperature and exhaust gas temperature guages are all available to enable accurate monitoring. If the aircraft is operated in accordance with the above specifications with a maximum outside air temperature of 15° c, and the fuel/air mix is correctly adjusted, the limits recommended will not be exceeded. Beware of high temperature days and long periods of stationary running.

1 November 1999

SPECIFICATIONS - STRIKER GEMINI/TRI-FLYER

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SPECIFICATIONS - POWER UNIT

Date of Manufacture	
Aircraft Registration No.	
Engine Model 440 FUJI Robin EC 44 PM	
Engine Serial No.	y
Reduction Type Tooth belt	
Propellor 62" x 27"	
Dry Weight 94.5 Kg GEMINI - SGKG TRI-FLYE	3
Fuel Mix 32:1 - run in - 40:1 after 10 hou	CS.
Recomm-{Max Engine Speed 6900 rpm	
ended (Max Flight Engine Temperature EGT 1500°F (815°C) CHT 425°F (218	·C)
FUEL CAPACITY AND WEIGHT 4.75 GALS - 15KG	
SPECIFICATIONS - WING	
Manufacturer Flexiform Skysails Ltd.	
Model. Striker	
Serial No.	
Area 206 sq ft	
Max Suspended Load 300 kg	
Weight 50 kg	

SPECIFICATIONS - COMBINATION

Dry weight	144.5 kg GEMINI - 136Kg TRI-FLYER
Max total all-up weight	338 kg (2 x 90kg occupants 4.75 galls fuel)
Max load factor	4 - G
Load composition	1 or 2 occupants (max 180 kg) + fuel
Stall speed at max load	25.5 kts (30 mph) loss of height 100ft
Stall speed at min load	25 kts (29 mph) loss of height 90 ft
Stall height loss at 30° bank	85 ft
Max nose down stall	1860 - The state of the state o
Cruise speed	35 kts (40 mph)
Never exceed speed (Vne)	47 kts (54 mph)
Permitted manoeuvres	non-aerobatic angle of bank not to exceed 60°
Pitch angle	Nose up/down not to exceed 300 no whip stalls
Approach speed	Engine at idle 35.5 kts (41 mph)
Landing run at max load	Clear 15 mtr. obstacle 189 mts.
Take - off run at max load	Clear 15 mtr. obstacle 180 mts. at max load
Max wind operating cond.	18 kts (21 mph)
Max cross wind conditions	8 kts (10 mph) at 90°
Best rate-of-climb speed	34 kts (39 mph)
Power-off rate of descent	600 ft per min
Power-off Ground Distance Covered	
Control bar sense	Push nose up, pull nose down. Push bar right
Absence of the company of the compan	bank left. Push bar left - bank right.

Note: Recomended maximum engine temperatures and speed can be exceeded for very short periods without immediate damage. However you are strongly recommended not to exceed the limitations at any time. Engine speed (rpm) cylinder head temperature and exhaust gas temperature guages are all available to enable accurate monitoring. If the aircraft is operated in accordance with the above specifications with a maximum outside air temperature of 15° c, and the fuel/air mix is correctly adjusted, the limits recommended will not be exceeded. Beware of high temperature days and long periods of stationary running.

8-2-85

SPECIFICATION OF GEMINI/TRIFLYER TRIKES WITH ROTAX ENGINES

The Rotax engine option is available under C.A.A. Type Approval modification number 5.

The specification of the aircraft remains the same except for the following changes:

Engine Model Rotax 447

Engine Serial

Reduction Type - Integral Gearbox Propeller - 62" x 37" LH

- 86.5 kg Gemini - 78 kg Triflyer Dry weight Fuel mix - 40:1 run in; 50:1 after run in

Recommended max engine temp's - EGT 1500°F (815°C) CHT 425°F (218°C) Recommended max engine speed - 6900 rpm

Please refer to Rotax engine manual for maintenance of engine and gearbox.

The gear oil drain plug is now fitted with a magnetic collector. This should be inspected, cleaned and details of any deposit recorded in the manual.

4 354

6/0/83

Civil Aviation Authority

Noise Type Certificate

Aircraft Type Certificate Number: 5H

Name and Type Designation of Aircraft: GEMINI - FLASH, SPRINT, STRIKER 2 SEAT MICROLIGHTS

Manufacturer: MAINAIR SFORTS LTD

It is hereby certified that the type of aircraft named in this certificate is acceptable for United Kingdom noise certification. The basis for certification is stated below. Approved variants and their power plants, their maximum noise certificated weights and the corresponding noise figures are as stated on the reverse.

BCAR SECTION N ISSUE 3 CHAPTER N3-5,2,3

for the Civil Aviation Authority

original Date of Issue

21ST JUNE, 1934

Date of this Issue No

Civil Aviation Authority

Noise Type Certificate

Aircraft Type Certificate Number:

Z N

Name and Type Designation

Of Aircraft: TRIFLYER SPRINT AND TRIFLYER STRIKER 2 SEAT MICROLIGHTS

Manufacturer: MATNAT

MAINAIR SPORTS LID

It is hereby certified that the type of aircraft named in this certificate is acceptable for United Kingdom noise certification. The basis for certification is stated below. Approved variants and their power plants, their maximum noise certificated weights and the corresponding noise figures are as stated on the reverse.

BCAR SECTION N ISSUE 3 CHAPTER N3-5,2,3

F. Marin

for the Givit Aviation Authority

original Date of Issue

30th April, 1984

Date of this Issue No

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Noise Figures SEL IN dEA	Sidelina	Аврховер										
Maximum Noise Certificated Weight	Take-off	Landing	ı		I				l			
Power Plant		A PART HER PROPERTY OF THE PRO	FUJI ROBIN EC44PM 440 cc ENGINE	MAINAIR SPORTS ROUND TIP 62" DIA. 30" PITCH PROPEJIER ROTA FLOW MUFFLER	FUJI ROBIN	440 cc ENGINE	MAINAIR SPORTS ROUND TIP 62" DIA. 30" PITCH PROFELLER	ROTA FLOW MUFFLER	FUJI ROBIN ECULPN 440 cc ENGINE	MAINAIR SPORTS ROUND TIP 62" DIA. 30" PITCH PROPELLER	ROTA FLOW HUFFLER	
Date of Approval			21.6.84	,	21.6.84				21.6.84			
Approved Variants		A service and A service delication of the se	MAINAIR GEMINI FLASH		MAINAIR GEMINI				NAINAIR GEMINI STRIKER			

Procedure	· .	graffic and the second	·						Q	
loise Figu SEL IN dBA	Assertes Flyover	85.4			82.2					
Maximum Noise Certificated Weight	Landing	i								
Power Plant		Fuji Robin EC44PM 440 cc engine	Mainair Sports 440 62 " dia 27 " pitch propeller	2.67 reduction gear Rota Flow muffler	Fuji Robin EC44PM 440 cc engine	Mainair Sports 440 62" dia. 27 " pitch propeller	2.67 reduction gear	Rota Flow 440 Muffler		
Date of Approval		30.4.84			30.4.84					
Approved Variants	R	sainair Triflyer print	. :		ainair Triflyer triker					

United Kingdom Civil Aviation Authority

Noise Type Certificate

124 Aircraft Type Certificate Number: __ Name and Type Designation of Aircraft: Gemini - Flash, Sprint 2 Seater Microlight

Manufacturer: Mainair Sports Ltd.

mum noise certificated weights and the corresponding this certificate is acceptable for United Kingdom noise certification. The basis for certification is stated below. Approved variants and their power plants, their maxi-It is hereby certified that the type of aircraft named in noise figures are as stated on the reverse.

BCAR Section N Issue 3 Chapter N3-5, 2, 3.

for the Civil Aviation Authority

_original Date of Issue 20th March 1985

_Date of this Issue No_1 20th March 1985

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'igures dBA	Flyover		80.3				6.08				78.2				78.8			
Noise Figures SEL in dBA	Sideline	Approach																
Maximum Noise Certificated Weight	Take-off	Landing									v			,				
Power Plant			Rotax 447 Fan cooled inverted.	Newton 62" dia. 38" Pitch Propeller	Rotax Underslung 2x90° Muffler	2.58:1 Reduction Gear	Rotax 447 Fan cooled inverted.	Mainair 62" dia. 37" Pitch Propeller	Rotax Underslung 2x90° Muffler	2.58:1 Reduction Gear	Fuji Robin EC44PM inverted	Mainair 62" dia. 30" Pitch Propeller	Mainair Rotaflow Muffler	2.66:1 Reduction Gear	Fuji Robin EC44PM inverted	Mainair 62" dia. 30" Pitch Propeller	Mainair Rotaflow Muffler	2.66:1 Reduction Gear
Date of Approval			20-3-85				20-3-85				20-3-85				. 20-3-85			
Approved			Mainair Gemini Rotax	-	•		Mainair Gemini Rotax				Mainair Gemini Flash				Mainair Gemini Sprint			

PRE-FLIGHT CHECK LIST

Models: GEMINI SPRINT - TRI-FLYER SPRINT

WING - GROUND RIGGING CHECK

- 1) Control frame corner wires LH
- 2) Sidewires/LE open pocket top rigging
- 3) LH leading edge leech lines tip sail fixing
- 4) LH battens keel wires
- 5) Keel sail fixing fin assembly
- 6) Cross tube tension attachment pull cord
- 7) RH battens leech lines RH tips sail fixing
- 8) RH leading edge open pocket side & top rigging
- 9) Side wires & RH control frame corner
- 10) RH leading edge front section
- 11) Nose wires and pin
- 12) Sight for symetry nose batten
- 13) LH leading edge front section
- 14) Control frame Apex

RIG WING TO TRIKE

TRIKE

- 1) Trike connection ring fitted fore aft location
- 2) Back up loop
- 3) LH seat lock
- 4) Exhaust check
- 5) LH axle & wheel assy.
- 6) Belt fit & reduction drive
- 7) Prop fixing & blade check
- 8) RH axle & wheel assy.
- 9) Carb attachment plug caps tight
- 10) Fuel line & connections clean filters
- 11) Tanks secure & full - breather clear
- 12) RH seat lock
- 13) Rear seat fitting tube
- 14) Cockpit, instruments required maps
- 15) Front strut
- 16) Nose wheel
- 7) Check non-wire locked nuts. PRIOR TO FLIGHT

- 1) Full control movement
- 2) Ignition off
- Fuel primed choke as required
- Seat belts fitted
- 5) Helmets fixed
- 6) No loose items
- 7) Intercom clear
- 8) Prop clear
- Start engine run for minimum of 5 minutes or until CHT reads 250°F. MIN.
- 10) Check clear prior to launch

NOTE: - We suggest you cut out this check list; glue it to a card and cover it in clear film (available from stationers). It can then be kept with the aircraft.

PRE-FLIGHT CHECK LIST

Models: STRIKER GEMINI. STRIKER TRI-FLYER

WING - GROUND RIGGING CHECK.

- 1) Control Frame wires LH
- 2) Side wires and fastenings, top rigging
- 3) LH leading edge, tip sail fixing
- 4) LH battens keel wires
- 5) Keel sail fixing centre batten straps
- 6) Leech lines, top keel wire
- 7) RH battens RH sail fixing
- 8) RH L/E side wires & fastenings, top rigging
- 9) Control frame wires RH
- 10) Nose plate and wires + inboard L/E sections
- 11) Bowsprit slider retaining pin, sight for symetry
- 12) Keel Apex block retaining pin

RIG WING TO TRIKE

TRIKE

- 1) Trike connection ring fitted fore aft location
- 2) Back up loop
- 3) LH seat Lock
- 4) Exhaust check
- 5) LH axle & wheel assy.
- 6) Belt fix & reduction drive
- 7) Prop fixing and blade check
- 8) RH axle & wheel assy.
- 9) Carb attachment plug caps tight
- 10) Fuel lines and connections clean filters
- 11) Tanks secure and full, breather clear
- 12) RH seat lock
- 13) Rear seat fitting tube
- 14) Cockpit, instruments required maps
- 15) Front strut
- 16) Nose wheel
- 17) Check non-wire locked nuts.

PRIOR TO FLIGHT

- 1) Full control movement
- 2) Ignition off
- 3) Fuel primed choke as required
- 4) Seat belts fitted
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- 6) No loose items
- 7) Intercom clear
- 8) Prop clear
- Start engine run for minimum of 5 minutes or until CHT reads 250°F MIN.
- 10) Check clear prior to launch

NOTE: We suggest you cut out this check list, glue it to a card and cover it in clear film (available from stationers). It can then be kept with the aircraft.

Date of issue - 6th September 1983

Date	Amendment details
27-11-84	NEW PAGE 26-DWG 99-00-300 ISSUE (
27-4-85	NEW PAGE 5A- NOISE CERTIFICATE FOR INVENTED FUJI + ROTAX + FLASH -NO 12M
8-5-85	NEW PAGE 27A - WIRING BOX DETAILS - DWG 94-44-SI
9-5-85	NEW PAGE 3A- ROTAX 447
29-6-85	PAGE-13- DWG 99-44-285 - FLASH CONNECTION ADDIED
8-7-85	WIRING BOX DWG 99-44-SI-PAGE 27 AMENDED TO ISSUE A-ROTAX
9-7-85	PAGE 28 - SIDE VIEW TO ISSUE B'- ROTAX GEARBOX ADDED

			6/9/83 Fage
And the state of t		Top Engine Mounts	DISCONNECT FROM STRUE,
FINAL DELIVERI INSPECTION CREW LIST Wheels Front	Keel Vertical Strut Junction	Main bolts tight Dubbon mount connectly fitted	Airframe
fully greased	Bolts tight and wired	Rubber mount bolts tight Nut cars fitted	Check keel/strut alignment
Solus Tight Thee running	fulleys fived End caps fitted Knot tight and heat shrunk	Lower Engine Mounts	Top Assembly
Mut caps fitted	Nut caps fitted	Main bolts tight	Bolts all tight Pivot channels O.K.
Front Fork	Keel Axles	Rubber mount bolt tight Nut caps fitted	
Steering mean tight	End caps fitted	Engine Rigging	Frect Trike
Mudguard secured	Nuc caps iloca Axle side struts	Bolts tight on thimble eyes	Fit front strutCheck bolt fit on front strut
Brake bolt tight Rubbers fitted	Ear brackets tight Bolts tight	na carb	
Accelerator Cable fixed & wired	Axle tie wire O.K.	Ingine Electrics	Throttle placard
opring rascened correctly	Side Struts	Farts located & placed correctly Fixing bolts tight	Tank Placard
Pull Start	Bolts tight Rubber suspension greased	trappe	Name Plate Test Run
Knot tight	Ear brackets correct top & bottom	Cable loops for folding O.K.	101 C2 to 1
Pulley free running	Main channel bolt tight Limitation wires fitted	Spark plug caps retained	Check no leaks in fuel line
Nut caps fitted	Wheels - rear		Check ignition contact Check switch operation
Seat Frame	Both greased	Engine Controls	Start and run at least 5 minutes
Sent supplied the sent supplied to the supplined to the supplied to the supplied to the supplied to the suppli	Both retained correctly(split pin open)	2 into 1 wired and modified	General Uneck Over
Tangs fitted on Remstraps	Free running	Hand Throttle free	Additional Parts
Folding joint bolts tight & wired	Fropeller	Choke cables iree	Engine manual - check engine type
Nut caps fitted	Bolted tight (or supplied assembled)	Cables strapped & tie ends cut	Arenos di
Foot Support Frame or Cockpit Foot Rest	Nut caps Prop disc	Full Unrottle Opening Foam filters tight	Constructors initial Tool kit with:
Bolts tight	Prop tape	Tuel Line	plug spanner and rod,
Nut caps fitted	Reduction Drive	Smooth runs - no kinks in tube	Prop bag - fit to check length
End plugs fitted	Fulley alignment checked ————————————————————————————————————	EndsWell fitted Fitter	Invoice No. on plans and recorded Transit tie and strut tie
Cockpit	Main bolts and front bolts-tight.	Breather fitted consecut	ents
Rear supports		Tank Strapped tight with Fil	Winter A.S.I.
Dash mounting	Belt tension correct Bearing housing bolt all tight	Quick-release elastic	Thommen Altimeter Red line on engine ints.
Map pocket fitted	nts	Exhaust	
Stripe and name	Bearing unit greased Spark Plurs fitted and elastic	Safety Tie wire	Checked by
radin hear Tenk Inlet	,	Rubber mounts tight Rubber mounts not distorted	Agent check
		Prop clearance O.K.	

GENERAL INFORMATION

1. Operating limitations

This aircraft must be operated under visual flight rules (VFR) at all times. Minimum equipment to operate under VFR is as follows:

Altimeter - recommend Thommen type 200-26 Air Speed Indicator - recommend Winter - 0-65 MPH - Venturi type Appropriate maps - air charts for operational area

See drawing 99-44-1 for instrument installation. See page 11

2. Cross-wind conditions - take-off and landing

Cross-winds to 15 knots (17 mph) have been demonstrated but we recommend an 8 knot (10 mph) maximum. No special techniques are required but be ready to correct steering direction on touchdown, and to prevent the upwind wing from rising.

3. Power-off landings

Maintain minimum air speed of 36 knots (42 MPH). Ensure adequate obstacle clearance. Beware of landing short and practise techniques under controlled conditions.

4. In-flight re-start

We do not recommend switching off the engine during flight unless practising under controlled conditions. If it is necessary to re-start in the air, set approximately 20% throttle and do not use choke if engine is warm. Control bar position should be neutral.

5. Load Distribution and C.G.

Maximum total all-up weight must not be exceeded. Single or dual seat occupancy will affect the control bar position slightly. Please refer to drawing No. 99-44-285 Page 13.

6. Flight Limitation Pacards

The placard which details flight limitations is on the main keel tube immediately behind the front fork.

The throttle direction placard in on the hand throttle mounting tube. The fuel tank placcard is on the side strut immediately adjacent to the fuel tank filler neck. The registration plate is fastened to the engine top mounting plate. The serial number is stamped on the end of the main seat channel

7. Fuel/Oil mix

Tri-flyer trikes use 2-stroke oil mix at the following ratio: Whilst running in (see page 21) 30:1 and after that 40:1 The petrol should be of 2 star grade and we do not recommend the use of synthetic oils or special racing oils. A good quality 2-stroke oil available from most garages is ideal. Shell, Mobile and Texaco 2-stroke oils are suitable for this purpose.

8. Rubber Suspension Bushes

The telescopic side struts contain a rubber bush which acts in compression. These are lubricated at the factory with Rocol MX33 grease. They should be checked and re-lubricated every 50 hours. See page 24.

9 Propeller Bearing Hub

Use standard wheel bearing grease and single-shot lubricate every 10 hours. See page 24

10. <u>Single Seat Operation</u> Ensure rear seat belt buckles are all firmly connected together to prevent them reaching propellor. Adjust seat strap until position is comfortable.

GENERAL INFORMATION CONTINUED

10. Single Seat Operation Ensure rear seat belt buckles are all firmly connected together to prevent them reaching propellor. Adjust seat strap until position is comfortable. Pilots who weigh under 70 kg should add sand ballast to the rear seat belt ballast bag to compensate.

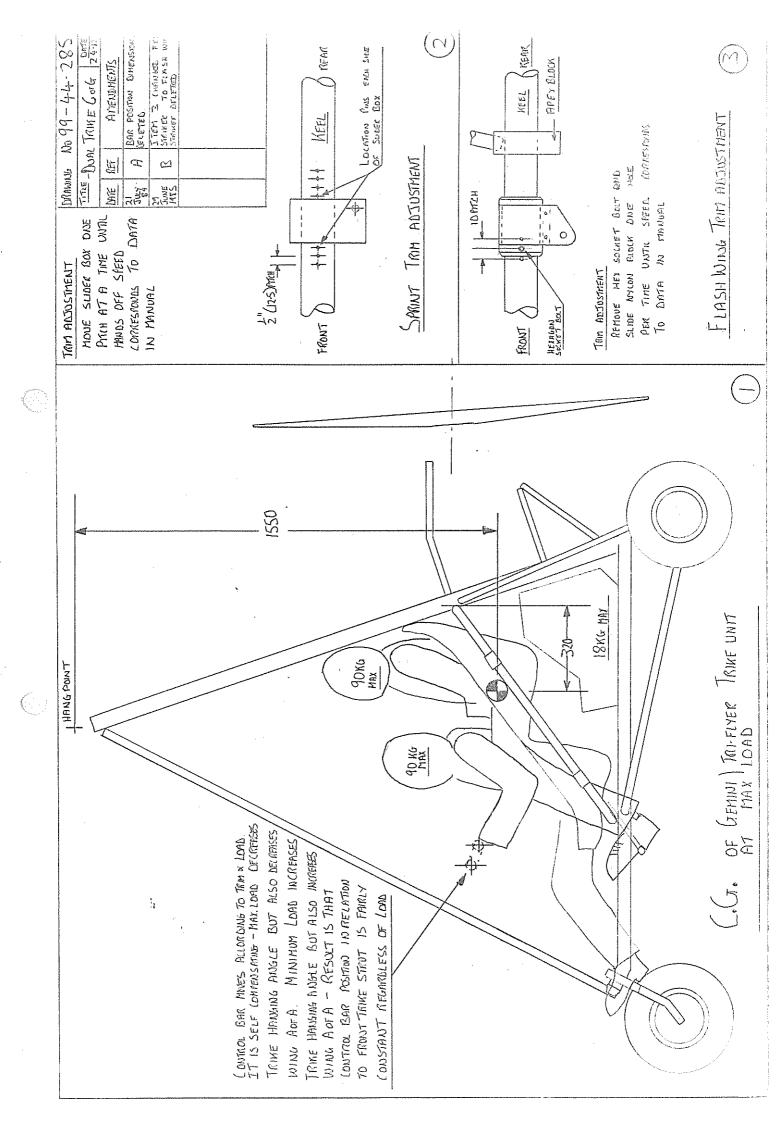
11. Fuel Tank

4.75 gallon plastic - Tri-Flyer

This tank fits behind the seat. To install, position the tank on the keel tube and locate in the metal strap which is fixed to the vertical strut. The tank strap fits underneath the keel, around the vertical strut and is pulled tight across the front of the tank so as to press the tank firmly onto the keel and into the bracket. Fit the hose connector and retaining elastic and prime fuel checking for leaks. Ensure the fuel line is not kinked or trapped and position the breather tube in the clip on the engine casing. ENSURE TAP IS OPEN.

GEMINI (Cockpit)

The sequence is exactly the same save that the tank has to be fitted from above. The tank seat support straps are slipped off the retaining tube at the main seat channel. This allows the rear seat to be slid down the seat frame giving good access. The fabric cockpit has to be fitted over the filler neck and it may help to remove the gauge whilst doing this. After fitting and checking, slip the seat loops back up between the channel and seat frame back and locate them on the retaining tube.



OWNER LIST

1 Date of purchase	2 Date of purchase
Name	Name
Address	Address
3 Date of purchase	4 Date of purchase
Name	Name
Address	Address
5 Date of purchase	6 Date of purchase
Name	Name
Address	Address

ANNUAL AIRWORTHINESS INSPECTION

Date	Company	(use overleaf Comments if reqd)	Inspector	Signed
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RECORD OF RUNNING HOURS

Date	Hours	Total hours to date		Date	llours	Total hours to date .
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### OPERATION PROCEDURE

### AIR LAW

All microlight aircraft must operate within current air law. All pilots must familiarise themselves with air law, particularly with C.A.P. 85. Much of the U.K. is suject to flying limits, and there are many and varied air lanes and special areas around airports and similar installations. You should purchase a current air space map and familiarise yourself with the limits shown. Failure to comply with certain restrictions may result in a heavy fine and confiscation of the aircraft. Mainair Sports stock many useful publications and air maps.

### TRANSPORT

Trike. We recommend that the Triflyer be trailered to and from the flying field. Although the trike unit can be folded or lifted onto a roof rack, it's quite hard work and the ease and simplicity of a 'T' trailer is very convenient. Whichever way you transport your trike, make sure it is firmly fastened and does not sway around. Tie it at each axle leg and at the front wheel fork or keel. It is necessary to fasten a tie down rope from one axle to the propeller hub and back down to the other axle. This will hold the engine assembly firmly and stop undue wear and movement during transportation. "Special transit ties are available from MAS.

Glider Wing. The total convenience of a folded wing is amazing. It folds to such a neat package that one can lose sight of the fact that it is a piece of high technology which needs a lot of care. You should follow the manufacturer's rigging instruction carefully and pad and protect vulnerable areas with foam carpet padding. The wing should be fully supported and we recommend a pair of single bar roof-racks spread as far as the vehicle roof gutter will allow. On most cars this will still leave a considerable length of glider unsupported over the bonnet, and a front support is essential. This can be a simple wooden prop locating on the bumper bar or a custom-made support. It makes no difference, as long as the glider is supported and it does not bounce and sway around during transport. Each rack should be well padded where the glider rests, and although you should tie firmly, be careful not to over tighten and damage the wing. Tie the glider and trike with pieces of rope. Elastic hook bungees are very convenient, but not always safe.

### OPERATING AREAS

Trike microlights are aircraft and should be operated as such. Stay away from populated areas which will be restricted by buildings, trees, power lines etc. Fly from airfields and open places, and if you have to consider whether a field is long enough to take-off in, it probably isn't. Take-off runs vary with the trike model and conditions, the air density of the day, and the pilot's skill and weight. Until you are totally familiar regarding the size of field needed, fly from recognised microlight airfields or huge open areas. Be ready for the engine to fail 50ft up and make sure you have lots of room ahead to make a safe landing. Treat your field and the population around it with consideration. Having gained all your initial experience elsewhere at a recognised site, launch from your field and then fly away. The quickest way to annoy people living near a used field is to continually fly in and out subjecting them to, what is in reality, a pretty aggravating noise, especially at week-ends. If they hear you just once or twice during the whole day they are most unlikely to complain and you have a chance of keeping your field. Obey air law at all times and do not fly beyond your limits. Weather knowledge has to be learned. There are many useful publications on micro meteorology which should be studied.

### RIGGING

Wing - Unload your equipment and start by rigging your glider. Select a clean, smooth area and carefully rig the glider in accordance with the manufacturer's instructions. Obviously, it must be pointing into wind, and it is best to leave it lying flat on the ground rather than with the control frame rigged. Resting on the nose with the control frame rigged can make even the slightest breeze put large loads on top of the sail which may distort and damage the battens. Naturally, you will need to fully rig the glider in order to carry our a pre-flight check, and this should be a three-stage affair. The first full check is carried out on the wing itself in accordance with the manufacturer's advice. Check all nuts and bolts, all sail fittings and batten connections. Check all wire terminations, feel and look at all the tubes for damage. Most manufacturers have a sequence of pre-flight checking which is suited to their particular model. Enclosed with this manual is a general check list which can also be used. Having satisfied yourself that the glider is in perfect order, turn your attention to the trike unit. TRIKE RIGGING

Single-Seater - If transported with the axles folded, open them out supporting the trike so that it does not fall over. Pull both axles back, locate and tension the rear catch; secure with the bolt, wing nut and split ring. (OR AXLE STRUTS) Standing at the front, until the retainer you have used between the vertical strut and keel during transportation and lift up the vertical strut, pushing the seat frame firmly down. Slide in place the front strut and fit both bolts and rings to hold it in place.

Dual-Seater - The dual-seater trike must be trailered and we do not recommend folding the axles in except for storage. During transport the 1" tube at the top of the vertical strut should be fixed into the fork and the keel to carry the main load, or for Gemini units the vertical strut is strapped down to the keel with the location plug fitted into the cockpit front strut. For assembly, unfasten this and lift up the vertical strut, pushing the seat frame firmly down. Fit the front strut and fix into place with the bolts and rings. Pin the telescopic seat struts with the 'R' clips.

General - Although the front strut will have to be removed for attaching the trike to the glider, we recommend that the trike is thoroughly warmed up and run for five or ten minutes before flight. The last person who ran a trike without locking the vertical strut in place needed forty stitches in his head from contact with a propeller as the trike folded down during the running! The accident was not with a Triflyer, but the potential is there.

Locking Nuts - Major critical nuts are wire locked but you must always check all lock nuts to ensure they are not comming loose.

After rigging the trike, fill up with the correct grade of fuel; the fuel is the lift blood of the trike; treat it with respect and never fill up using dirty funnels or tubes. Do not put the petrol cap or filler cap on the floor, as this can pick up dirt, and watch that dust does not fall into the fuel tank. We recommend that the fuel is filtered, both when you fill up your mobile container, and also as you pour it into the trike tank. A tiny particle of dirt can clog a jet and cause a serious accident. Observe strict fire precautions and do not allow anyone to smoke. Be polite at all times, but be as impolite to smoking spectators as you need to be to prevent a fire hazard. Fullyinspect all fuel lines and periodically replace the fuel filter. On most models there is also a filter attached inside the fuel tank, and this, too, may need cleaning. Wipe down all fuel spills and fasten all containers tightly as soon as you have used them. Remove all spare fuel containers away from the immediate area and away from spectators.

FUEL TAP This is provided for emergency use only. The quick release fuel connectors are self sealing. Be careful not to take off with the fuel tap closed.

### CONNECTING TRIKE TO GLIDER

Rig the glider, nose into wind and standing on control frame. If the wind is more than 5 m.p.h. or is gusting, have a helper hold the glider level to reduce negative loads on the sail. Wheel up the trike unit, rolling the front wheel over the glider base bar. Connect the trike bracket and secure the bolts and nuts with the retaining rings. Turn the propeller horizontal and lift up the glider and vertical strut. Pushing in the control frame will push the seat frame into position and it helps to have a couple of ties to fasten the control frame back to the seat frame to stop the wing from swinging about. Fit the front strut in place, fitting all retaining rings.

Now, carry out the third part of the pre-flight checking the integrity of the whole combination.

### STARTING UP

A trike is a lethal machine. A spinning propeller can be all but invisible and there have been countless accidents; don't think that it can't happen to you! Locate the front wheel against something immoveable, such as a wall, being aware that as soon as the engine starts there is propulsion and the trike will want to move. Clear all spectators away, particularly away from the area which would be affected by a fractured propeller. In practise, this means that everyone should be in front of the trike, but well clear at each side. Select a member of your crew to keep people away - as they tend to drift closer and you may be too busy to notice them. Check to make sure there is nothing that could be sucked into the propeller, such as seat belts, scarves, cleaning cloths, maps, clothing, etc., etc. Switch on the fuel and seat yourself in the trike. Open the hand throttle about and select around half choke. These amounts will vary with the machine and you will need to experiment a little. BE AWARE OF THE DANGER OF STARTING UP WITH THE HAND THROTTLE OPEN TOO FAR.

Switch on the ignition, calling loudly: "Switches on." Get hold of the pull start or electric ignition switch, and before turning the engine at all, look around and shout: "Clear prop." Do not feel embarrassed or self-conscious, you are starting an aeroplane and it's a serious business. Calling these warnings should be a habit. If all is clear, start up. Continuously check for drifting spectators and run the engine until it is warm and runs smoothly without choke. If the engine does not start after a few pulls, it's likely to be flooded and it will be necessary to remove the plugs, clean and dry them, and start again.

Two-strokes are notorious for not starting just when you have a large crowd of expectant admirers. Running the engine upside-down does not help plug fouling problems, but most starting difficulties can be overcome by careful maintenance. Fuel left in the carburettor can evaporate into the cylinder, leaving two-stroke oil behind and this can be prevented by draining the carburettor or always rotating the prop to close off the inlet port when the unit is left for any time. Early on in the engine's life, it can be expedient to remove the plugs for cleaning immediately before starting up, but once the engine is warm starting problems should disappear, if they do not, then look at other things and refer to the engine manual.

### * Certain models only.

### LAUNCHING

Before taking off make sure that no other aircraft will be obstructed as you launch. Look carefully for aircraft on finals and follow any circuit procedures operating at the time. If operating from an airfield familiarize yourself with airfield practise.

### FLYING

Trike flying is pure flying. Never before has there been such a simple-to-fly craft which is so efficient. Its simplicity can be deceptive, and just as you are sitting back enjoying yourself, things can go wrong. Engine failure is the main problem and in general there are two main reasons: fuel or ignition. Silly things can happen: the plug cap can vibrate off. Serious things can happen: the fuel line may wear through on a sharp edge covering a hot engine with petrol which may ignite, be sucked in and thrown out by the propeller setting fire to your fabric wing.

Frequent inspection and maintenance is the only path to enjoyable flying. Always fly in easy reach of landing fields, and beware of the temptation to show off in front of friends and spectators. So many good and experienced pilots have been killed doing just that. Flown sensibly, for fun, and with care, your trike will give you many hours of pleasurable flying.

### TRI-FLYER OPERATION

Operation of your trike is obviously your own total responsibility. Many people have been maimed for life and a lot have died as a result of flying Rogello type and microlight aircraft under power. No person should ever take anyone for a flight in a Tri-flyer unless he is a qualified and capable instructor, operating under controlled conditions. A full knowledge of hangglider behaviour, air law, aircraft limitations and metoerology is necessary for operation of any trike and glider combination. No Tri-flyer trike should ever be connected to a glider wing unless it has been ascertained that the wing is suitable for this purpose. Two-seater trike units must only be operated with specifically designed two-seater wings.

### RUNNING IN

### WARNING NOTICE ON FUJI ROBIN ENGINES

Neither the original engine manufacturer or the main distributor will offer any kind of guarantee for the Fuji Robin engines. It is a condition of sale that no liability will be accepted for any failure or damage whatsoever caused at any time after delivery of the engines. Even if the engine blows up within ten minutes of running, since we cannot get the manufacturer to accept responsibility, we have no choice but to pass the full and total responsibility to you, the customer. The Robin engine is a snowmobile unit proved to be very reliable in its design mode. It is being used beyond these design limitations, and even though hundreds of Robins are operating successfully, we do not claim it as an aircraft engine; we do not claim it will run safely for ever; and we want you to be fully aware that it has the potential for letting you down at any time.

All engines need running in properly, particularly enginges used on aircraft. Correct running in will lead to greater safety and longer engine life. The engine manufacturers recommend that you use a 30:1 2-stroke fuel mix for the first ten hours and after that 40:1 Avoid full-throttle operation for long periods, especially during the first ten hours. We suggest that you static run the engine for at least five to six hours prior to flight. This period will help running in and bring small problems to light. During running in, do not hold the engine at full revs all the time, but increase and decrease the throttle setting, holding it for thirty seconds or so. Generally avoid working the unit too hard, but some full-throttle operation will be necessary to break down the oil interface between the piston rings and cylinder walls. Continuously monitor the engine temperature and spark plug conditions: too weak a mixture can lead to burned plugs, overheating and engine seizure; whilst too rich a mixture can lead to the same result. Please refer to the engine manual for further information.

WE RECOMMEND THAT REPAIRS OR REPLACEMENT OF PRIMARY AND SECONDAY COMPONENTS IS CARRIED OUT AT AN APPROVED MICROLIGHT FACILITY.

The essence of enjoyable triking is maintenance. Launching and landing in fields and open spaces, which are often bumpy and rough, subject both your trike and glider to the most appalling loads, and it is inevitable that things will go wrong. Vibration caused by the 2-stroke engine can fracture components and vigilant inspection is essential. Every flight should be preceded by a full pre-flight check and any noticable failures or potential failures should be rectified before flight.

It is essential to grease all three wheels and to keep the tyres correctly inflated. The control cables should be graphited occasionally, but removing all accumulated dust from them is essential. As they operate, they wear out and this dust will one day jam them unless they are kept clean. A frequent strip down to inspect the nipples and joints is good practise.

You must pay particular attention to the exhaust system and its mountings. Frequently inspect for stress-induced fractures and have these repaired as soon as they become evident. Carefully check the rubber mountings and replace any which show signs of fatigue.

Inspect all rubber engine mountings and the whole engine mounting assembly on a daily basis. Get used to frequently going over the whole trike checking cables for stretch and elongation, aluminium plates and channels for worn holes and loose fitting bolts, and the general integrity of the trike structure itself. Also keep an eye on such obvious things as the seat and harness straps.

Ensure that the fuel tank is strapped tightly in place at all times, and inspect to ensure that no chaffing is taking place. Inspect and frequently clean out or replace the fuel line filter, and in addition, wash out the air filters from time to time. Ensure that all cable runs are straight and free from damage and carefully inspect the electrical ignition system.

Remember, preventative maintenance is the only was to trouble-free and pleasurable trike flying. Please refer to maintenance schedules.

### PROPELLER CARE

Wooden propellers need careful handling if they are to perform well for you. Avoid using your trike on dusty, stoney ground, or anywhere where abrasive materials are sucked through the prop. The leading edges of the propeller can be protected with high-impact helicoptor rotor tape. If this eventually shows signs of looseness, it should be replaced.

It has been proved that wooden propellers go out of balance with time. Moisture absorbtion is the problem, and it can be reduced by thoughtful handling. Always store the trike unit with the blade in the horizontal position and store the unit in a dry, warm place.

Maintain a high-quality varnish finish and frequently check and rebalance the propeller, if required.

There are many publications and articles available on propeller maintenance; you are advised to locate and read them.

FUEL SYSTEM - see drawing No. 99-00-300 - page 26

ELECTRICAL SYSTEM - see drawing No. 99-44-50 - page 27

SPARE PARTS ORDERING — SEE DRAWINGS 99-44-280 AND 281 - ORDER BY
DRAWING NO AND ITEM NO. - GIVE FULL PART DESCRIPTION
AND TRINE SERIAL NO.

### MAINTENANCE AND REPAIRS

### Small Repairs

Small repairs may be necessary from time to time. These include such items as repair welding to the exhaust system, replacement of worn elastic retainers and similar small jobs.

Only factory approved components should be used as replacement parts, and failure to do this may invalidate the permit to fly.

The propeller will need constant attention to maintain its performance, and impact damage can be repaired by filling in small areas with proprietary wood fillers (plastic wood). More serious damage must be repaired by a qualified person. Please see page 22.

### Care and Cleaning

Microlights operate from fields, beaches etc. and are subject to contamination from salt and water on beaches and mud and manure etc. on fields. We recommend that your machine is cleaned thoroughly after every day's use, particularly if used on the beach or near salt water conditions.

Salt Water or Beach Conditions: After each day it is essential that you hose off your machine completely with fresh, clean water. Pay particular attention to areas where sand can lodge such as between the axle plates and under small brackets and fittings. It is important to ensure that all tubes are plugged to prevent the ingress of salt water, but if you suspect that this may have happened, it is essential to remove these plugs and wash out any contamination. Salt water will corrode aluminium at an alarming rate.

Wheels: If the wheel bearing has been immersed in salt water, it will be necessary to remove the wheel, clean away the old lubricant and re-lubricate. Fields: Mud and manure must be hosed off as soon as possible, since not only can it hide defects, but it can also contain corroding elements. A strong hose down with clean water is recommended, again paying particular attention to areas between plates and fittings.

Sail: The sail should be kept clean and free fron grit. The best technique is to hose with fresh water, but stubborn stains can be removed by the application of a mild detergent. We recommend proprietary washing-up liquid, but it is essential to remove all traces of soap as a reaction can occur between soap and sunlight on the fabric. Make sure you do not collect grit and dirt between the leading edge and the keel tubes as this can abrade the fabric.

Aluminium Tube: Never use any abrasive materials on aluminium tube. Most contaminants can be removed easily when wet, but a soft bristle brush and mild soap may be useful for more stubborn stains.

### RECOMMENDED MAINTENANCE SCHEDULES

DAILY - see pre-flight check lists on page 6,7 and General Maintenance Information on pages 22.

Regular daily checks are essential and the following schedule is advisory only. Each unit will require a varied schedule depending on utilisation and modes of operation. We may revise the schedule in the light of experience and would welcome comments from users.

### EVERY 10 HOURS OR 6 WEEKS

Wheels

Remove from axles, clean out and renew grease.

Front Fork Poot Throttle

Regrease Lubricate

Control Cables

Clean and check

Fuel Line Filters

Clean or replace - check internal tank filter. Carburettor Air Filters Clean by washing in clean petrol (not 2-stroke)

Reduction Drive

Inspect main bearing housing, check belt alignment and tension; adjust, if necessary. Inspect main

bolts for integrity. Grease bearing hub.

Propeller

Inspect and repair, if required.

Exhaust

Inspect carefully for fractures and repair, if required.

Also inspect rubber mounting and renew if necessary.

### EVERY 25 HOURS OR 12 VEEKS

Propeller

Remove and re-varnish. Re-balance.

Bolts

Physically check each bolt for security.

Spark Plugs Air Prame

Renew with correct type. Inspect for corrosion.

### EVERY 50 HOURS OR 6 MONTHS

Strip and inspect the following joints for plate damage, hole elongation, bush wear and stress fractures. Replace all bolts and locknuts.

Front Fork Assembly Rear Axle/Keel Joints Rear Axle End Joints

Vertical Strut Pivot Top Suspension Bracket

Strut Fixings.

Exhaust

Replace manifold springs and rewire in place

Fuel Line Filters

Renew line filter, pressure clean tank pipe filter

Carburettor Air Filters Renew or clean thoroughly

Axle Tie Wires

Renew

Exhaust Rubber Mountings Renew

Air Frame

Inspect for corrosion

Telescopic Side Struts Strip and re-lubricate. Replace rubber if required.

Front Fork Bearing

Assembly

Inspect and Renew, if required.

### RECOMMENDED MAINTENANCE SCHEDULES - continued

### EVERY 100 HOURS OR 12 MONTHS

Rigging Renew all wire rigging

Fuel Line Renew all fuel line - see note below

Engine Control Cables Fully strip, clean and replace, as required.

Engine Strip and clean carburettor bowls checking needle wear

and operation. Carry out static thrust check and rev

check. Engine may need strip and de-coke.

Ignition Switch Replace Wheel Bearings Replace Drive Belts Replace

Top Suspension

Channels Replace Wing Connection Bolts Replace

Seat Frame Remove pivot clamps and inspect for clamp damage

and tube wear.

Air Frame Inspect for corrosion

### EVERY 200 HOURS OR 2 YEARS

* Applies to Inverted Engine Assemblies only

*Main Propeller Shaft Replace *Main Propeller Shaft Bearings *Main Reduction Bearing Jacking Studs Replace Replace Wing Connection Bracket Replace

Upright Engine Reduction Drive Carry out full strip down and inspect -

replace bearing unit if it shows signs

Air Frame Carry out full strip down to inspect all tubes for wear and corrosion damage.

Fuel line note: The fuel line is a special fire resistant type and must be obtained directly from Mainair Sports Ltd. No replacement fuel line must be used unless it is

factory approved.

