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## AMENDMENT RECORD SHEET

To record the incorporation of an Amendment List in this publication,  
cancel the original A.L. No. and insert the date of incorporation

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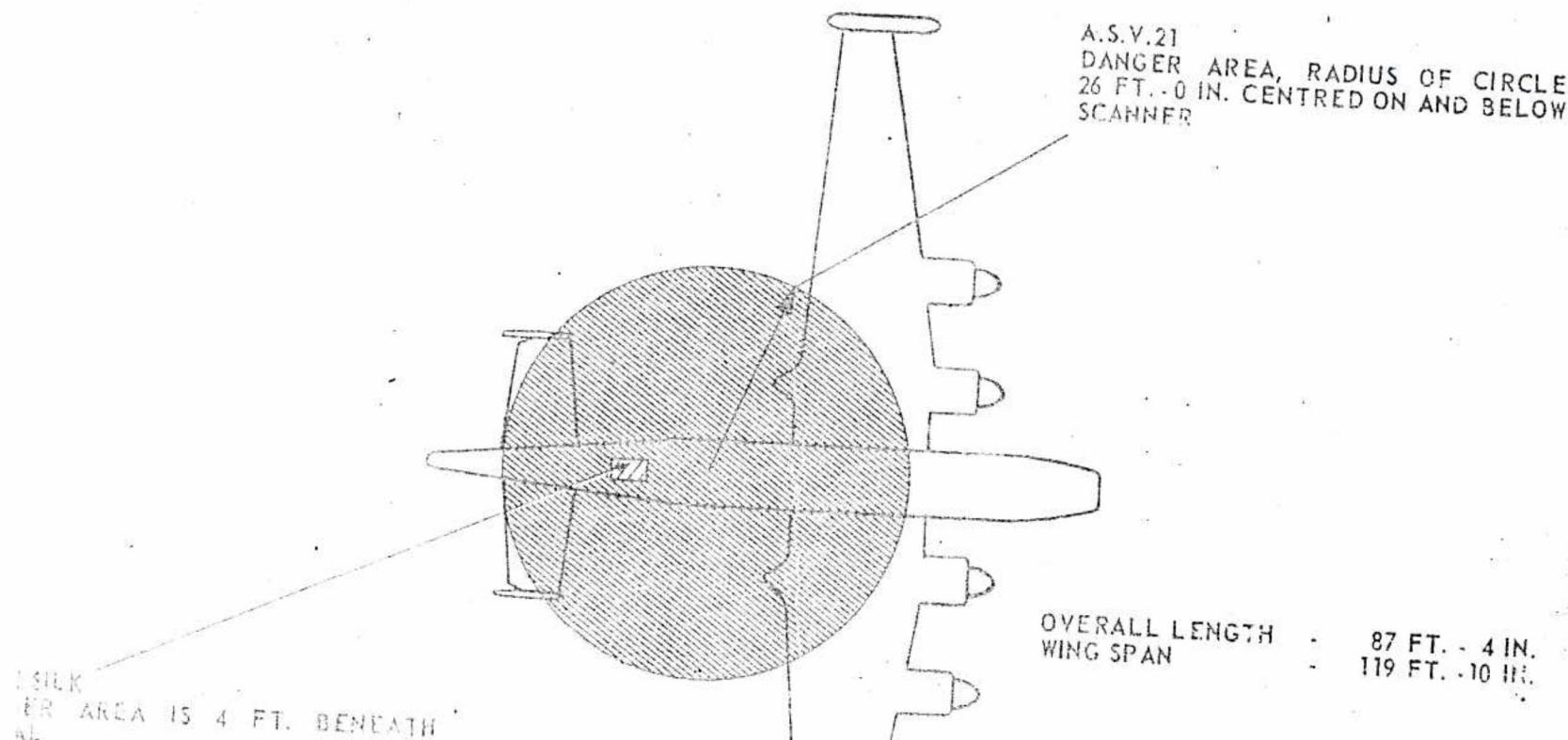
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RESTRICTED

LETHAL WARNING



MICROWAVE RADIATION

MICROWAVE RADIATION HAZARD from certain parts of the aircraft. To avoid injury to health, all personnel near the areas indicated on the diagram must stand off and observe the notices displayed warning

HIGH-ENERGY IGNITION UNITS

The energy stored in the capacitors of the high-energy ignition units can, under certain circumstances be of a lethal nature. No servicing is to be attempted, on the Viper engines, until at least one minute has elapsed from the disconnection of the L.T. input plug.

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# ◀ LAYOUT OF A.P. 101B - 1703

## SHACKLETON MR. MK.3, PHASE 3 AIRCRAFT

Code No.	Title	Previous designation
101B-1703-1B ... ... ... ...	Aircraft servicing manual ... ... ... ...	A.P.4267E, Vol.1
<i>Issued in three books as follows:-</i>		
101B-1703-1B1 ... ... ... ...	Sect.1 to 5 ... ... ... ...	A.P.4267E, Vol.1, Book 1
101B-1703-1B2... ... ... ...	Sect.6 ... ... ... ...	A.P.4267E, Vol.1, Book 2
101B-1703-1B3... ... ... ...	Sect.7 to 9 ... ... ... ...	A.P.3267E, Vol.1, Book 3
101B-1703-2 ... ... ... ...	General orders ... ... ... ...	A.P.4267E, Vol.2
101B-1703-3A2 ... ... ... ...	Illustrated parts catalogue ... ... ... ...	A.P.4267E, Vol.3, Part 1
101B-1703-3B2 ... ... ... ...	Appendix 'A' ... ... ... ...	A.P.4267E, Vol.3, Part 2
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101B-1703-3D2 ... ... ... ...	Scales of servicing spares ... ... ... ...	A.P.4267E, Vol.3, Part 4
101B-1703-4B ... ... ... ...	Not applicable ... ... ... ...	A.P.4267E, Vol.4
101B-1703-5B ... ... ... ...	Basic servicing schedule ... ... ... ...	A.P.4267E, Vol.5
101B-1700-6A ... ... ... ...	Aircraft repair manual ... ... ... ...	A.P.4267, Vol.6
101B-1700-7 ... ... ... ...	Modifications list ... ... ... ...	A.P.4267, M.L.
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101B-1703-15B ... ... ... ...	Pilot's notes ... ... ... ...	A.P.4267E, P.N.
101B-1703-16B ... ... ... ...	Operating data manual ... ... ... ...	A.P.4267E, O.D.

**NOTE . . .**

Until notice of the changeover is promulgated in D.C.I's the required A.P. should be requisitioned under the old A.P. number.

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## NOTE TO READERS

The subject matter of this publication may be affected by Defence Council Instructions, or by Servicing schedules (Vol.5), or General Orders and Modifications leaflets in this A.P., in the associated publications listed below, or even in some others. If possible, Amendment Lists are issued to correct this publication accordingly, but it is not always practicable to do so. When an Instruction, Servicing schedule or leaflet contradicts any portion of this publication, the Instruction, Servicing schedule or leaflet is to be taken as the overriding authority.

The inclusion of references to items of equipment does not constitute authority for demanding the items.

Each leaf, except the original issue of preliminaries, bears the date of issue and the number of the Amendment List with which

it was issued. New or amended technical matter indicated by triangles in the text thus:-◀→ to show where of amended text, and thus:- ▶◀ to show where deleted. When a Section or Chapter is issued in revised form, the triangles will not appear.

If more than one copy of this publication is held covers should be given an identifying number together.

◆ The reference number of this publication was A.P.4267E to A.P.101B-1703 in May 1967. revision of page captions has been undertaken, number appears in place of the earlier A.P. new or amended leaves issued subsequent to that d

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SECT  
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Tanks ... ... ... ... Two  
 Capacity (each) ... ... ... ... 26 gall.  
 Pumps ... ... ... ... S.P.M.7 (Ref.No. 5UE/5272)  
 Pressure regulating valves ... ... ... ... 301/3/025/1

**BRAKE ACCUMULATORS**  
 Type ... ... ... ... A.C. 14058 (Ref.No. 27VA/4959)  
 Number ... ... ... ... Two  
 Air charging pressure ... ... ... ... 1,550 p.s.i.

### OIL SYSTEMS

**OIL**  
 Type ... ... ... ... OMD-370 (Ref.No. 34A/2201096)  
                             N.A.T.O. Code No. 0-128  
 Tanks ... ... ... ... Four  
 Capacity (each):- Oil ... ... ... ... 32.5 gall.  
                             Air space ... ... ... ... 7.5 gall.  
 Total oil capacity ... ... ... ... 130 gall.

### OIL DILUTION SYSTEMS

Valve ... ... ... ... (Ref.No. 27V/2800)  
 Jet ... ... ... ... No.3 (Ref.No. 27V/2691)  
 Diameter of jet orifice ... ... ... ... 0.089 in.  
 Delivery pressure (nominal) ... ... ... ... 18 p.s.i.

### COOLING SYSTEM

Coolant ... ... ... ... A.L.-3 (Ref.No. 34B/9100470)  
                             N.A.T.O. Code No. S-735  
 Capacity (per system) ... ... ... ... 8 gall. approx.

### HYDRAULIC SYSTEM

**PUMPS**  
 Type ... ... ... ... Dowty Vardel A.8003/Y/2450  
 Number ... ... ... ... Two  
 Working pressure ... ... ... ... 2,450 p.s.i.

**RESERVOIR**  
 Capacity - Fluid ... ... ... ... 10.5 pints  
                             Air space ... ... ... ... 6.9 pints  
 System fluid capacity ... ... ... ... 7 gall. approx.  
                             Fluid ... ... ... ... Oil OM-15 (Ref.No. 34B/9100572)  
                             N.A.T.O. Code No. H-515

### EMERGENCY AIR SYSTEM

**CYLINDERS**  
 Type ... ... ... ... Mk.5F (Ref.No. 6D/9429887)  
 Number ... ... ... ... Three  
 Capacity ... ... ... ... 1,250 litres  
 Charging pressure ... ... ... ... 2,700 p.s.i.

### PNEUMATIC SYSTEMS

**MAIN SYSTEM**  
 Compressor (No.2 gearbox) ... ... ... ... S.H.6/10C. (Ref.No. 37G/508)  
 Storage cylinder (main)  
   Number ... ... ... ... One  
   Type ... ... ... ... A.C.O. 3147 (Ref.No. 27VA/2948)  
   Capacity ... ... ... ... 620 cu.in.  
   Charging pressure ... ... ... ... 1,000 p.s.i.  
 Storage cylinder (backing)  
   Number ... ... ... ... One  
   Type ... ... ... ... Mk.5F (Ref.No. 6D/9429887)  
   Capacity ... ... ... ... 1,250 litre  
   Charging pressure ... ... ... ... 3,000 p.s.i.  
 Regulator valve  
   Type ... ... ... ... A.R. 16/1000 (Ref.No. 27VB/302)  
   Operating pressure - Cut-out ... ... ... ... 1,060 p.s.i.  
   Cut-in ... ... ... ... 850 p.s.i.  
 Reducing valve pressures  
   Camera and engine services ... ... ... ... 1,000/350 p.s.i.  
   Hydraulic reservoir ... ... ... ... 350/7 p.s.i.  
   Vision de-icing fluid tank ... ... ... ... 350/7 p.s.i.  
   Secondary fuel jettison system ... ... ... ... 350/50 p.s.i.

### A.S.V. PRESSURISATION SYSTEM

Storage cylinder  
   Number ... ... ... ... One  
   Type ... ... ... ... Mk.5D (Ref.No. 6D/9429887)  
   Capacity ... ... ... ... 750 litre  
   Charging pressure ... ... ... ... 1,800 p.s.i.

Shock-absorber strut	
Type	Liquid spring
Charge pressure (no load)	1,500 p.s.i.
Static load deflection	Refer to Sect.2, Chap.2
Oil	OM-15 (Ref.No. 34B/9100572) N.A.T.O. Code No. H-515
Wheels (two)	A.H. 9527 (Ref.No. 27A/3548)
Tyres	D.C. 4983, 30 x 9.00-15 (Ref.No. 27A/3588) or FE-EN-59N, 30 x 9.00-15 (Ref.No. 27A/3755)
Tubes	F.E.3, 30 x 9.00-15 (Ref.No. 27A/3527)
Inflation	Refer to Vol.5 of this A.P.

## POWER UNITS

Type	Griffon Mk.58 power plant
<b>ENGINES</b>	
Time	Griffon Mk.58
Power	12 cylinder, 60 deg. Vee, pressure-liquid cooled with two-speed single stage supercharger (Ref.No. 57A/50).
Number	Four

<b>ACCESSORIES GEARBOXES</b>	
Number	Four
No.1	6.0214.0001 (Ref.No. 37L/5060)
No.2	6.0214.0003 (Ref.No. 37L/5063)
No.3	6.0214.0004 (Ref.No. 37L/5061)
No.4	6.0214.0005 (Ref.No. 37L/5062)
	OM-270 (Ref.No. 34A/9100554) N.A.T.O. Code No. 0-117
Capacity	4 pints
After engine run	4.3 pints

<b>ENGINE TACHOMETER GENERATOR</b>	
One to each gearbox)	Ref.No. 6A/2237

## PROPELLERS

Type	D.F. 178/334/1 (Ref.No. 25A/748)
------	----------------------------------

Rear	... ... ... ... D.B. 229/336/1 (Ref.No. 25A/772)
Control	... ... ... ... Hydromatic, constant speed and feathering
Diameter (front half)	... ... ... ... 13 ft.

## PITCH SETTINGS

Front propeller	
Basic	... ... ... ... 23 deg.
Fine	... ... ... ... 23 deg.
Feathered	... ... ... ... 90 deg.
Rear propeller	
Basic	... ... ... ... 24 deg.
Fine	... ... ... ... 24 deg.
Feathered	... ... ... ... 91 deg.
Direction of rotation	
Front propeller	... ... ... ... Right-hand tractor
Rear propeller	... ... ... ... Left-hand tractor

## TRANSLATION UNIT

Type	... ... ... ... P.36674 (Ref.No. 27L/6943)
Oil	... ... ... ... OEP-70 (Ref.No. 34B/9100539)
	N.A.T.O. Code No. 0-155

Tank capacity (each tank) ... ... ... ... 750 c.c.

## FUEL SYSTEM

## FUEL

Type	... ... ... ... Aviation gasoline 100/130 grade (Ref.No. 34A/9100444)
	N.A.T.O. Code No. F-18

## Fuel pumps

Main tanks	... ... ... ... S.P.E. 418, Mk.3
Auxiliary tank	... ... ... ... B.P.1, Mk.3, (Ref.No. 5UE/3751) or F.B.6, Mk.3, (Ref.No. 5UE/4986)

## Fuel tank capacities

No.1 tanks (each)	... ... ... ... 539 gall.
No.2 tanks (each)	... ... ... ... 573 gall.
No.3 tanks (each)	... ... ... ... 297 gall.
No.4 tanks (each)	... ... ... ... 311 gall.
No.5 tanks (each)	... ... ... ... 185 gall.
No.6 tanks (wing tip) (each)	... ... ... ... 253 gall.
Total fuel capacity (normal)	... ... ... ... 4,316 gall.
Auxiliary fuel tank	... ... ... ... 400 gall.
Maximum total fuel capacity	... ... ... ... 4,716 gall.

## WATER/METHANOL

Type	... ... ... ... A.L.-24 (Ref.No. 34B/9440428)
------	---

## SUBSIDIARY SYSTEM

### Storage cylinders

Number	Two
Type	Mk.10A (Ref.No. 6D/9429900)
Capacity	2,250 litres
Charging pressure	1,800 p.s.i.

## FIRE PROTECTION SYSTEMS

### GRIFFON ENGINES

#### Extinguishers

Type	Mk.12A, methyl bromide, 6lb. (Ref.No. 27N/100)
	Mk.13A, methyl bromide, 12lb. (Ref.No. 27N/99)
Number	One Mk.12A and one Mk.13A for each engine
Flame selector switches	Ref.No. 27N/72

### FUEL AND WATER/METHANOL SYSTEMS

#### Extinguishers

Type	Mk.12A, methyl bromide, 6lb, (Ref.No. 27N/100)
Number	Eighteen

### AIR CONDITIONING SYSTEM

#### Extinguishers

Type	Mk.12A, methyl bromide, 6lb. (Ref.No. 27N/100)
Number	Four - one to each heater compartment

### VIPER ENGINES

#### Extinguishers

Type	Mk.12A, methyl bromide, 6lb. (Ref.No. 27N/100)
Number	One for each engine

### HAND OPERATED EXTINGUISHERS

Type	34H, B.C.F., (Ref.No. 27N/299)
Number	Five

## ARMAMENT

### BOMBING GEAR

Main carrier positions	Twelve
Number of carriers fitted (maximum)	Four

### Normal system

Preselector unit	Type B
Bomb distributor	Type 6
Auto-selector, 4·5 in. flares	Ref.No. 5D/1769
Auto-selector, marine marker	Ref.No. 5D/1297
A.S. bombs	
Stores controller (two off)	D.C.U. 77A
Carriers	
Heavy carrier	AV.210 (Ref.No. 11A/4130)
A.S. bombs and torpedo carrier	AV.270 (Ref.No. 11A/6368)
Medium carrier	AV.211 (Ref.No. 11A/4131)
Torpedo and sonobuoy carrier	AV.271 (Ref.No. 11A/6369)
Sonobuoy carrier	AV.272 (Ref.No. 11A/6370)
Marine marker adapter carrier	AV.275 (Ref.No. 11A/6371)
Practice bomb carrier	AV.247 (Ref.No. 11A/4128)
Marine marker adapter	AV.193 (Ref.No. 11A/3875)

### GUNS

Mounting	Type 1
Guns (two)	Hispano 20 mm., No.4, Mk.5 (Ref.No. 7G/783)
Rounds	30
Power operation	Electro-hydrauli

## PYROTECHNICS

### Flare chute

Number	0
Type	AV.21
Flame float ejector	Ref.No. 26FP/401

### CARTRIDGE DISCHARGERS

Illuminator flare dischargers	
Number	Fo
Type	1·75 in. (Ref.No. 7B/14)
Distributor	Mk.1 (Ref.No. 5D/155)
Photoflash discharger	
Number	0
Type	1·75 in. (Ref.No. 7B/14)
Distributor	(Ref.No. 5D/171)

## ELECTRICAL SYSTEM

Wiring system	Earth return, single
Type	S.B.A.C. (Modifi)
Generators	24-volt, 12k
Number	F

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### ERVE AIR SYSTEM

age cylinders  
Number ... ... ... ... Two  
Type ... ... ... ... 26767B (Ref.No. 6D/2776)  
Capacity (each) ... ... ... ... 4,260 litres  
Charging pressure ... ... ... ... 3,500 p.s.i.

### VACUUM SYSTEM

p ... ... ... ... Pesco B3X, Mk.2 (Ref.No. 37J/6)

### NITROGEN SYSTEM

INDERS  
ber ... ... ... ... Six  
e ... ... ... ... Mk.10A (Ref.No. 6D/9429892)  
acity (each) ... ... ... ... 2,250 litres  
rging pressure ... ... ... ... 1,800 p.s.i.

DUCTING VALVES  
high pressure (1,800/400 p.s.i.) ... A.C.M.16390 (Ref.No. 27VA/4816)  
ium pressure and relief valve (400/25 p.s.i.) ... P.A.S.264-001  
v pressure (50/5.5 p.s.i.) ... A.C.M.20156 (Ref.No. 27VA/5760)

### DE-ICING SYSTEMS

ROFOIL SURFACES  
tem ... ... ... ... Modified T.K.S.  
mp ... ... ... ... X.A.9500/120 TYPF B (Ref. No.5UE/6216)►  
tributors ... ... ... ... Porous panels  
ank capacity - Fluid ... ... ... ... 23 gall.  
Air space ... ... ... ... 4 gall.  
id ... ... ... ... A.L.- 7 (Ref.No. 34B/9100474)

ANSFER SYSTEM  
mp ... ... ... ... Type 28000/11 (Ref. No.5UE/6859)►  
nk capacity - Fluid ... ... ... ... 33 gall.  
Air space ... ... ... ... 3 gall.  
id ... ... ... ... A.L.- 7 (Ref.No. 34B/9100474)

### WINDSCREENS

Tank capacity - Fluid ... ... ... ... 9 gall.  
Air space ... ... ... ... 0.5 gall.  
Fluid ... ... ... ... A.L.- 8 (Ref.No. 34B/9100475)  
N.A.T.O. Code No.S-738  
Delivery pressure ... ... ... ... 7 p.s.i.

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### WINDSCREEN WATER-SPRAY SYSTEM

Tank capacity - Water ... ... ... ... 6 gall.  
Air space ... ... ... ... 0.5 gall.  
Delivery pressure ... ... ... ... 7 p.s.i.

### FRESH WATER SYSTEMS

Tank capacity (galley) ... ... ... ... 15 gall.  
Tank capacity (toilet compartment) ... ... ... ... 5 gall.

### AIR CONDITIONING SYSTEM

#### Heater

Name	... ... ... ...	Dragonair
Type	... ... ... ...	D.Y.A.100 (Ref.No. 27U/539)
Number	... ... ... ...	Four
Fan units (two)	... ... ... ...	Type 55A0141
Fuel controller	... ... ... ...	Ref.No. 27U/553
Fuel pumps	... ... ... ...	Ref.No. 5UE/5648

### OXYGEN SYSTEM

### MAIN SYSTEM

Storage cylinders  
Number ... ... ... ... Eight  
Type ... ... ... ... Mk.10A (Ref.No. 6D/9429900)  
Capacity ... ... ... ... 2,250 litres  
Charging pressure ... ... ... ... 1,800 p.s.i.  
Regulator ... ... ... ... Mk.10A (Ref.No. 6D/1395)

Type English Electric 527, A.E.2303/3 (Ref.No.5UC/7601)  
Voltage control panel (four) ... ... ... Type A.E.7307/2  
(Ref.No.5UC/7601)

Batteries

Number ... ... ... ... ... Two  
Type ... ... ... K, 24-volt, 40 amp./hr. (Ref.No.5J/3364)

Emergency batteries

Turn and slip indicator (two) ... ... 24-volt, 0.4 amp./hr.  
Lighting ... ... ... 2.4-volt, 3 amp./hr. Connected  
2.4-volt, 1.3 amp./hr. in parallel

Alternator ... ... ... ... ... 200-volt, 7.3 k.V.A.  
Type ... ... ... ... ... N-0504

Voltage regulator ... ... ... ... ... Type 23/4784

Transformer/rectifier unit ... ... ... ... ... Type U/1801

Alternator protection unit ... ... ... ... ... Type V/12524

Inverters (rotary)

Type (four) ... ... ... ... ... 103C (Ref.No.5UB/8397)  
(one) ... ... ... ... ... 103D (Ref.No.5UB/9290)  
(two) ... ... ... ... ... 201B (Ref.No.5UB/6475)  
(one) ... ... ... ... ... 108 (Ref.No.5UB/5953)

Inverter (static) ... ... ... ... ... Plessey (509/1/01230)  
(Ref.No.5UB/8462) ►

ENGINE

Name ... ... ... ... ... Viper Mk.20301

Type ... ... ... ... ... Straight-flow turbo-jet

Number ... ... ... ... ... Two

Oil system

Type ... ... ... ... ... Integral with engine  
Oil ... ... ... ... ... OX-38 (Ref.No.34A/9100591)  
N.A.T.O. Code No.0-149

Tank capacity ... ... ... ... ... 6.5 pints oil, 3.5 pints air

Engine capacity ... ... ... ... ... 1 pint oil

Total oil capacity ... ... ... ... ... 7.5 pints

Starting system

Type ... ... ... ... ... Electrical

Starter ... ... ... ... ... Rotax Type C.13102

Starter panel ... ... ... ... ... Rotax Type U.1110

RESTRICTED