

FLIGHT MANUAL AS 350 B2

DOT TYPE APPROVAL No. H.63

"SECTIONS 1, 2, 3, 4 AND 5 OF THIS HANUAL AS WELL AS THE APPLICABLE SUPPLEMENTS, CONSTRUTE THE APPROVED FUGIET MANUAL, FOR CANACIAN REGISTERED AIRCRAFT COMPLIANCE WITH SECTION 2 IS MANDATORY.

REGISTRATION No.

BEAIAL No

APPROVED BY (

THE DIRECTION GENERALE DE L'AVIATION CIVILE (DOAC)



Date of approval December 66, 1990

"This Motorcraft Flight Market is the benefition of an approved French liight manual. The note "BGAC exproved" on all pages making that these pages are an imagral renalsion of the French leave approved by DGAC".

This 9FM is approved for Canadian registered aircraft and consists of at pages. marked "DG&C approved" and coded Ci

IMPORTANT NOTE

The protost velue of this manual depends entirely upon its being correctly syndered. The revisions are recorded on the lest page of the manuar. The effectivity of the manual of the latest revision is apported on pages 0.0.75.

This formula supports the finacoptors delivered by both appropriate and EUROCOPTER FRANCE. Revisions to this manual are made by EUROCOPTER FRANCE using the same procedures de Aurospellale.

THIS DOCUMENT SHALL BE CARRIED IN AIRCRAFT AT ALL TIMES.



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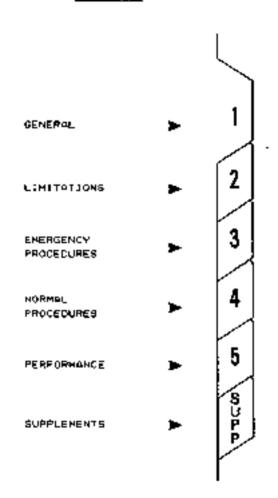
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PART 1



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COMPOSITION OF COMPOSITIONAL PROVISCIONS (NIC)

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SECTION 1

1 PRELIMINARY WOTES

1.L GEWERAL

To exhibite the required degree of cafety, this earnal must be used in conjunction with the relavant regulations covering airprofit operation, such as serial newlyshion less in the operator's country. It is essential for the ones to become familiar with the contents of this remusit, special centification requirements and any information specific to customized configurations, and to thock all revisions and related requirements.

1.2 DESCRIPTION OF MARKEL

This remusi contains Regally approved information, eagether with edditional Manufacturer's information rule subject to approved; the entire manual compilers with the recommendations of the Heliconter Association International LIMFS.

- The approved information is contained in PART 1 11; [pm Nuguet].
 In Switches 1,2,3,4,5 and in the Supplements.
- The information not subject to Approval is contained in PART 2.
 **COMP. PARMITERY FLECKY MANAMALY, was elsoplement to PART 1.
 **This information is covered by sections 5.7.8.8 and 10. Each PART of Manager takes up a whole and, for this instance, incomparates the own Lost of Paget and is revised applicately.

1 2 1 Bacic Africant

The basis nell-coptan special leations are observed by sections 1 (through 10,

1.2.2 Special Systems and Procedures

Enformation concerning optional equipment systems and operations) phinosolutes is covered by Supplements. These are not il Flight Manuals covering any differences from the basic sincraft information, exection by section. The supplements are approved on an invitable, busing

1.3 ADAMIRIJON OF MANUAL TO CLUST (CATTON REQUIREMENTS

Specific contribution requirements may recommittee modifications to the text on layout of centain pages.
Therefore, a specific Fifth Nameon (PART 1) is one-one or for each centain

Therefore, a specific Flight Marsol (PART 1) is one-minus for each centifreation. Fach Flight Marsol includes its our particular title page; the diphacetical code, corresponding to the relevant centification, appears in the lower Definited common of each page of the approved MART [



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1.4 Cuttomization MODSFICATIONS tyrinited on green paper >

Special Teatures of a particular helicopper may justify prioritary addends to the information on cartain basic served and supplement pages. These pages, printed on green paper, are filed in the sample over the corresponding white pages.

The information contained in the green pages separturilies or supplements the information covered by the relevant white page. We white tage he do listad.

Page C.O.Pi page 3 gives the list of green pages.

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2 UPDAZING

2.1 OCHERAL

This Manual is updated pariodically through rash revisions (AR) or normal revisions (Ah).

Z.2 REVESTORS

Aerospaniable makes every effort to keep this menual updated by revisions to complete the user's information and capabilities. Each revision is accompanied by instructions summarizing the major points affected by the change and educating the person reasonable for incorporating the revised pages to the handal. (The instruction sheet can be filled separately from the narrall)

The user is importable for ensuring proper industry of the manual Complying with the tist of Pages given at the beginning of FART 1, PART 2 and of each supplement, time each of the these PARTS or Supplements is revised Separately.

The date code is computed of the lest two degits of the year, followed by the number of the week in that year.
The variant code includes two digits placed order the page number for identification of the sersion, certification or related duatemagnism.

2.2.1 Morrial revisions (printed on white paper)

Moreol revisions fully or partiably update the manual. The pages may be new neges or may supervede the existing tages. They are printed on white pages.

The manual effectivity is specified on the new introductory (0.0.61 oago 2). Normal revisions are adentified in numerical order.

Z.2.2 Rush revisions (printed on yellow paper)

Bush revisions partially update a few major points in the manual. The new information is given on a major which must lake the former twat to he modified or completed. The Rush Revision is printed on yellow paper. Ho white page is deleted. The revised pages are specified on a separate list (0.0.Pc, page 1).

Rush revisions are identified by the number of the next normal revision and a letter suffic in normal alphabethral order. Savoral rush revisions may be issued between the number revisions. All rush revisions are tancelled when the normal revision bearing the same number is issued. If teriain rush revision provisions crease after the subsequent cormal revision, they are confirmed by a new rush revision with another indentification rade.

1 2.3 Conditional revisions AC (printed on pick pager)

The revised manual issued on white overs, corresponds to the recommended standard.

For indicopters authorized to fly at an earlier standard, the conditional revision (RE) retains the previous standard.

The uper is responsible for embodiment of the windraft modification(s) required for compliance with the recommended standard, after which the pink pages may be deleted under the user's responsibility.

The pink pages are specified on a separate list(0.0.0) page 11.



5 SYMBOLS & RABREVIATIONS

	Srie English	GLS Franci:
Spends .		
- Rabe of client - Indicated directed - Indicated directed - Indicated directed - Califorated directed - Optimum clienting seed - Patenti selety speed	R/C [.A.S. T.A.S. C.A.S. Vy S V.1055	92 91 9p 9c 9y 990
- Or letted I decision spand	γ h Σ V1	VI VV
<u>M010</u> : Unless otherwise symbified, speed values used winspeed.	refer to §	ndikated
Altitudes ·	- 1	
- Take-off or landing neight	h Hip Her	74 74
<u>Helights</u> :		
- Managht - Managht series of series - Foothy series - Equipped empty weight	ME M.TOM E.D. E.G.M. E.Q.M. A.U.M.	H F.V. H.V.E. H.D.E. H.1.
Temperature ·		
- Outspide with Lampersture, in degrees centigrade -	a.a.1.	
Hisca laneous :		
Power langue langue Byrometrin presenté, în militairs Byrometrin presenté, în militairs Buter spake Gos generatur spake Free turbine spake Estapach Rem lamporature (E.G.T.) Out of ground effect In ground effect Fain gear box	0.0 (C.E. 1.0 (C	# C PB

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SECTION 2

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ŞECTÇIM 2.1

OFERATING LIMITATIONS

1 APPLICABILITY

THE CONTRATIONS SPECIFIED IN THIS SECTION ARE MANDATORY

They cover the basic lineage veryion.

Any additional restrictions resulting from installation of optional equipment items are specified in the relevant SUPPLEMENTS.

2 TYPES OF OPERATION APPROVED

Operating the helicoster is approved, out of using conditions, for ϵ - Day WFR Hight

- hight V-R flight, when the required equipment items are installed and serviceable, provided such operation is permitted by the flight regulations of the country conterned
- 3 BASES OF CERTIFICATION

The helicopter is approved in the "MORINAL" Category of FAR PART 27.

4 WEIGHT I DWITS

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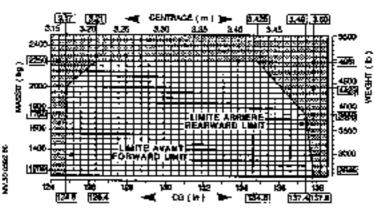
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S CENTRE UP GRAVILLY LIVITS

5.1 Longitudinal 4.3.

The king, datum is located <3.40 m (133.8 in) formand of the main rotor head centre line

The longitudinal c.g. limits are given by the graph below :



5-2 <u>(atera) c.o.</u>

-	L.II.) nem t	:	 	0.15	m (7.08	in;
-	R.H.	Tible.	-			m CS.51	

The datum is the mirroratt symmetry plane.

6 MAXIMUM SPEED

6.1 Wit with doors closed

6.1.1 VNE POWER-ON

- Absolute VME is \$35 knots (257 km/hr 178 albd) at zero pressure-
- At higher altitudes this these is to be reduced by 4 knots (5.5 km/hr or 3.5 494) per 2000 to and 18 km/hr per 1000 m. WHE walves versus altitudes are wanted on the atrapped indicator.
- In cold weather the following must be subtracted from VME : 10 knots (29 km/hr = 12 MFH) when 0.A.T. is below -30° C.

6.1.7 MMC Power-ptr

- Absolute WhE 14 12) knots (75) by(hr 144 MPH) at zero pressurealtitude.
- At higher altiques this speed as to be reduced by 3 knots (5.5 km/hr -3,5 MPH) par 1800 ft or 38 km/hr per 1800 m.
- in cold weather, reduce the VTE as follows :
 - 20 knots (47 km/hr. 23 mPH) when 0,4 T, is below -2010 without crapping below 65 knots (320 km/hr, 79 wPm).

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C)	90-1	17 Page 2



RR 7F Supersedes RR 20

Subject in Elegant on Calling show

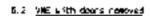
400 the fallowing test in Section () para, 7 (49)-intel Highs envelope).

7 4 Flight in falling sage

- Finght when visibility is greater than (SSD a iC 8) way finght in failing show is authorized.
- Flight whet wisibility is 800 to 1500 to 0.43 to 0.80 emp the sobal flying them in following show in limited to 10 milliotes. This them limit includes the time required to leave aki snowy conditions, irrespective of the wisibility.
- Flight when visibility is loss than \$61 m (\$ 43 mM) flight in falling show is promibited.
- $\underline{\mathbf{HOH}}$. For the preparation before fleight, refer to Supp. 4.



350 BZ



WF is 10viced to 70 Viola (130 keViv - 81 MM) for the following permissible configurations :

- . 4 doors recoved
- . 2 R.H. doors renoved . 2 L.H. doors renoved
- · Wy come configuration is probabled

7 APPROVED PLIGHT ENVELOPE

7.1 A)titude

Maximum autostant litted pressure-entitlede . 20000 ft (6006 p.)

7.2 Resperature

For comparatures lower than -25%, refer to illustructions for Commutantin Colo Weather ($\text{SUP},4\}$

- Payleum temperature ------- [S4 +35 ℃ '1e'ted to +50 ℃

7.3 Handeuvring Finitetions

Bo not exceed the load factor corresponding to the pervecantrel reversibility (fait.

8 HULLY ROTOR SPEED

6.1 Power on

On the ground at like pitch ------ 380 ± 5 rps

. In steht))(ged filg/st ------ 390 * 4 трл

8.2 Power off

. Northern --- 320 ctor

NDTE: The horn source when the notion speed is a period 960 rpm Licentinizate shyndi. . above 450 rpm Lintermittent sounds.

S PROTOR BROKE LLMSTOTLOW

- Her man notes appeal for notes brake application : 170 year
- Minimum time between two consecutive brakings . Similarities

21



TO TORQUE LINETATIONS

when armspeed is lower than 40 kt 174 km/hr) (46 MPH) :

 Navisus transfert torque (10 meg.) , 107 % Has four continuous forque

when a respect to equal to our hilphore them 40 kt (74 cm/hr (145 MPh)),

 Havenum continuous porque. : 94 %

11 DAGING LENGTOTEONS

The aircraft is equipped with a TURBONECA TARRIES following was Openating Tialitations are determined by the free both me notation epend ingly by the entered get temperature (th) or by the gas penerator rotation. speed (NFI desending on the operating conditions).

11.1 Les Generator Speed

Maximum that birth tetting (less than 5 sec.) by • 107.5 7. - Mg 4/41 • • 6

- Maximum takenif rating (5 minutes) without P2 air place Mg 61/f = 0 - No 41"f + -0.6 elli P2 e'm blee5
- National continuous nating -40 - 98 % - MG d1*f + -3.5

NOTE: 100 X Ng commespende to 51800 mon.

13.2 14 Temperature

- Maintage that engine etenting ----- 728 °C Maximum transfert outing starting (5 sec. max.) - 855 °C Heateur on telepoff ------ 845 €
- III.3 Free Turb've Speed
 - Maximum contributes applications ------ 417 year - Translent (write (5 sec. max.)
 - a in inga ----- 300 mga
 - . Aarlinun ------ 453 rom

MOTE - A notion speed of 394 npm connesponds to a free burbline speed of 42652 row.



BQ-17

(7)

11.4 Fuels

11.4.1 Standard Free le

Type of flat	M7 0		SPECIFICATIONS		
	#yeko!	U.S.	TUK.	FREMOH	Addition
Keroseno - 50 cavign⇒sjigupej	F 34	#ft_1-6s133 (a98)	0 E%.90 2 2653	ACR 3405-	Yes
(±\n\\\ + 0	1.35	4514-0-1690 JE1 44	0.E%.30 2e90	ACR 3405-	No.
Karusas	-	4574-0-1695 JE1 A	5	 	- 60
Mide cut (JP4) (AUTAG FS 20)	F 40	HTI - 1-95% 1 JPM 1	D E46, 40 2054	9CH 3407	Yes
Uide, ¢ût:	-	ASTM-0-LOŒ VE∥ \$		- -	700
High flood point (JPS) (AVEST)	F 43	L.:	0.EMG.RD 2490	F43	No
High Flants point CJP5 (AVCAT FS1t)	F NG -	(JPS)	0.EWC.RB 2452	ATR SACA	Yes

MOTE: Speciffications are to be used at the latest evendent and destrinumber.

11.4.2 Energency due to

Type of fuel	MATU	SPECIFICATION				
		V. 8.	J.K.	FREMON		
Av166 (on Gass) Ine	F 12	MIL # 5572 Grade 90/87	-	ACR 3401 BC/87		
(AVSAS 1	F 18	40L 0 5572 Gram 100/190	O. 846.60 2489	ATR 3404 1807(9)		
L.,	r z	MIL 8 5572 Grade 115/149		AIR 3401 115/145 T		
Richard five Sesal the	1.05	MOT 0 3088	DET . 2405	DCSA790HT (IC		

- Pastrictions

 Bittin any one period between overnauls of the engine, the use of
- gasolithe is limited to 25 hours eacheum.

 Add 2 Z of Fineral lubricating oil if prescribe
- Houp to 1500 ft.
- Fuel tenperature up to 30 %.

11.5 Fuel Pressure

- Pressure in the event of filter clogging , under 0.4 mgr.
 Preclogging indicator set for 200 mb differential pressure.

MOTE: The falter is equipped with a diagging implication.

RCAC Approved.

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11 6 Add'titles

11.6.1 Anti-Ica Additiva

If the fiel does not contain a fuel system loing inhibitor, the man of an anti-soing emilibrour is compaled by 10 A I is being into the additive shall couply with French specification ALR 3852 (equivalent to Mil. (27695, D.Erg.RD 2451, S 748, PHILLIPS AFA/5598).

National Concentration should be from 0.08 X to 0.15 X by velues.

11.6.2 Antiquets and addition

SPELL ASA 3 : was Your concentration : 0.000% X by value.

12 KURGEFICATION SYSTEM (IMITATIONS

12 1 Authorized Main and Tail? Gearbox Lucricants

- Synthetic of) (3 cet)	MATO C 148 rs MIL7808
- Synthetic 61113 cet /	MATO G 350 on AIP 3514
- Synthacic off (5 csc)	MATO 0 :56 on MOU L 23689
- Synthetic of) 15 net)	MATO C 160 or 0 Eng 00 2797
- Mineral-base mil	NATE OF SEC OF MILE LANGE

Mineral-base and synthetic offs are not miscible. In the event of a change in oil specification, refer to procedure carlined in the Reinsenance Renuell.

12-2 M.G B | 011 Pressure and Percenature

The cut low pressure warning light end the cit overheating warning light. rust herain off in flight.

12.3 Authorized Engine aubriconts

LUBRICANT	TYPE	APLTO	92	ECIFIKATIO	4
l		S*HBOL	FFERCH	U54	Luk
MOHENNA, OTAL	Synthetic	OL56		नाः ।	r — -
whole /1'ght	১ জো		-	236 39	
atvalope					
	Synthetic	معالا	 -	-	0.596 00
OTHER:	ं ५ एडा				2497
OLLS	Synthet'c	0948	T—:_	HILT	i - '-
Responsture	3 CST			7808	
be low = 1510		0350	MR 3574		
1	l				۱ ا
1	Syntractic	,1E-0	S-ELL TURB	THE CIT SK	Ď.
I	9.9 (\$1				

In the event of a clurge in all specification, help to procedure defined in the Maintenance Heruel.

RR2C

Parmaraph 12 3 Applice the existing text as follows : 12.3 Approved Entire Lubricants

NORMAL USE						
OIL TYPE	NATO CODE	6 PEQIFICATION		IN .		
OIL TIPE	MATO COSE	FRENCH	U.S.A.	U.K.		
Medium syniheso a4 5 cBt at \$6.97G	0.158		₩1 <u>. 1.2266</u> 0			

OTHER OILS AUTHORIZED BUT NOT RECOMMENDED PROHIBITED ABOVE 1510					
DIL TYPE	KATO GODE	64	EGERCATE	N	
DIE TIPE	IN THE GOOD	FREMCH	U.B.A.	OUK.	
Fluid synthetic of	0.144		HILL 7946		
Fluid synthetic of 3 to 3 5 eSt at MI 9 C	0.166	4IR 3514			
Fluid synthese oil 8.9 GSt at 98.9 °C				•	

OTHER OILS UBE PROHIBITED BELOW -10'G SPECIFICATION OIL TYPE HATO GODE FRENCH U.B.A. UX. Thick byrchedo bit 0.145 DER52482 7.5 c81 at 18.0°C

- HOTE: The temperature limitations mentioned above grply to engine starting.
 When the oil specification or grade differs from the approved use,
 the engine manufacturer's agreement must be obtained for using this 01).
 - The oils mertioned under OTHER ONLY may be the subject of parefoular. recommendations from the engine manufacturer.
 - Commercial designation of oils authorized for engines is specified. in TURK: ## (A document.
 - In the sweet of a change in all grade or specification, the oil system must be injushed as prescribed in TURBINECA Maintenance Managel.

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2.1

RE 28

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Subject : 'RR 28 sepensones 48 2A.

- for helicopters subjected to the restrictions and devi in Admirothiness Directive Bo 91-095-0578, or in Service Telex No 01-32,or in Admirothiness Directive H* 91-198(8), and the following to the probletted management of paragraph 35 :
 - [migotiona] angune shutdown is fingut,

ware the following on the instrument panel :

"THITENTIONAL ENSINE SHUTDOWN IN FLIGHT IS PROHIBITED."

 The above restriction does no longer apply after embodiment of Mod. TU 221.

BGAC Approved



15 PROMINCIED MUNCESVIES

Fire the hebromyters asbjected to the restrictions specified in paragraph 4 of Almeorithaese Ovrective No. 90-1056 (and further restations), or in ARROMATIMAE Service Telex No. 00258 (and further restations), add the tofforing grahth lifed agnosystem :

- Autorocactional flanding training without engine shut-down.
- Intentional de-Synchronication of the engine (torque lower than 100).



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12 4 <u>Crosine OII Pressure aut l'auparature</u>
12.4.1 <u>G11 Pressure</u>
 Minimum pressure above 95 % Mg 1.8 tem (26 ps) Minimum pressure between 70 % and 95 2 Mg 1 3 bar (18.9 ps) Maximum pressure outside starting sequence 5 bar (72.5 ps)
12 # 2 <u>011 lemperature</u>
- Maximum gil temperature :
18 BLECTROOK MOD HYDROLLIC POWER SYSTEM LIMITATIONS
13.1 Hadray I ic System
13.1.1 <u>Fluid Jead</u> -
- Symble();
DTD 995 - NATO H 515) If the fluid specification is charged, refer to the propertie specified in the Maintenance Market.
13.1-2 <u>Hydraulic System Pressure</u>
In flight the warning light must be sif.
13.2 Ejectrikan System
- Maximum voltage
14 LEADING OND STOPPING LINGTATIONS ON SUPPLY
- Nese-up
15 <u>RESTRICTIONS</u>
The following are promitited: • Flying in foling conditions - Aerobatics • English power methodator in flight using fuel flow control except for automobility and truthing
16 HINLING (SEA
One pilot. In stanboard seat.

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(₹) 89 17 Pager 7

17 TRANSPORT OF PERSONAND.

Business of persons carried a 6 maximum but foll trackated).

18 (CEPT) (CHPCMFNTS)

Lifed components, and the corresponding S.L.L. are indicated in the Haster Servicing Percentage (P.R.E.), SECTION 5.35, and east be replaced in eccordance thereigns.



SECTION 2.2

PLACARIS AND ENSTRUMENT MARKINGS

- 1 PLACARDS
- 1.1 Plates Displayed in the Cockelt
 - . Operating Timitations

THE RELEASE WINT BE CHERATED IN COMP. LONG WITH THE D.G. 4.C. THE ARRIVOR HINESS LIMITATIONS SECTION IN THE ROTORCRAFT MAINTENANCE MANUAL MISS BE COMPLIED WITH.

1.2 Leading Cratmuttion Plates

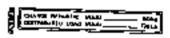
. On the side (ace of the control pedestral

CONTRACTOR MINISTER WILLIAM PISTRIBUTED CORDS WAST S.M. MANCHES FARME AFRICA THE REAL CORPS \$1000M 680 SH PLANTON MANY CANCEL CHILIN NON-YOUR CASES BRIGH

. In the Lat hold



. In the rear haln



. In the R.P., hold



1.3 Fuel Placard

A piscent on the instrument panel displays the correspondence between the fuel contents course percentage and the fuel quantity for the welected units

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? INSTRUMENT MARKINGS

Collaum code

- Red	
- Yellow	: Caution range
- Grapm	- Normal operating range

CHSTRUMENES ALRESPEED CHOCCATOR CHOCE I FORMUL THOUGATOR		HARKINGS Red with white hatching Red Time Green Gro	ROWGE	
			LZ5 kt / 235 km/mr/144 MPH 155 kt / 287 km/mr/176 MPH from MC to 155 kt 24 to 287cm/m MS to 178 MPH	
		Hed triumgle Had Tine Green and Yallov and	94 - 100 % 10 - 94 % 107 %	
ROTOR AND FREE TURNING	RETOR	Philte tolorgie Red Tine Palities and Green and tables and Med Tine	170 rpm 320 rpm 320 - 375 rpm 375 - 394 rpm 394 - 490 rpm 430 rpm	
TACHCHETER	FREE Tupesjing	Recolline Yelliam And Green and Recolline	330 rosa 330 r 375 rpm 325 - 417 rpm 417 rpm	
NG DIFFERENCE CHOCLATOR		Ensem end Yejiber Idae Yejiber end Hed illhe fied truengle	From lower stop to +3.5 -3.5 From -3.5 to C 0 -45	
FINALS* CAS TEMPERATURE 1 TH I INDICATOR		Creen and religious and Sed Time Red triangle	300 - 795 °C 705 - 845 °C 845 °C 855 °C	

MOTE: Each altitude marking corresponds to a power-on NNC value for temperatures above 30 °C.

(MSTRLMENIS	MARK TAKES	PANCE
EMBINE DIL PRESSURE	Red arra	1.3 - 1.8 ber (18.9 - 25.) p.s 1.)
EMBECATOR	Green and Velice and	(25.1 - 72.5 p s 1.) above 5 can (72.5 p.e.l.)
ENCONE OIL TEMPERATURE EMOCCATOR	F	30 - 315 T 115 Y
FUEL PRESS. THOSCAFOR	Creen err hellow erc	0.4 - 0.9 ture (5 6 - 13.1 p.s.1) 0 - 0.4 bart0 - '5.9 p.s.1)
wîr feetiga	Cheer en: Yellow end Red Tire	26 - 29 Valte 29 - 31 5 Valte 31 5 Valte
GHE1EA	Red Tine	150 A.

SECTION 3

ENGRGENCY PROCEDURES

CONTENTS

			Рену
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	7	MARKING-CAUTION-ADVISORY PANEL	2





SECTION 3.1

EMCAGENCY PROGRAMES

I INTRODUCTION

The procedures outlined in this section deal with the common types of scapgeroism; however, the actions taken in each actual emergency sust relate to the complete pituation.

Throughout this heation, "Lund 'mendiately", "Lond an earn se possible" and "Land as soon as practicable" are used to reflect the degree of ungency and one to be interpreted as (blicks).

- Land (or ditch) inseciately.
- Lend as soon as cossible: land at the nearest site at which a safe landing can be wade.
- Land an exponer properties is entended flight to not recommended. The landing size and duration of the flight are at the discretion of the pilot.

2 AUTOROTATION LUMBENG

2.1 Autoratation Landing Procedure following Engine Failure

- Set low collective pitch.
- Monitor and control retor fig.n.
- Establish approximately 65 knots (1.0 ke/nr) minagend.
- Home the fuel flow control to the shutdown position.
- According to the cause of lines of the engine.
 - "Se kight the engine liese categraph 3.2 of this Sections.
- .Otherwise a close the fact what-off welve

evition of the position purp

generator alternator (life installed):

electrical power restar "ALL-DFF" exitoh

(if she'l of barning).

- .Handetwise to meed the nell-copter into the viria in films) approach. Into a height of econoximately to fit (20 m) above the ground, films to a nose-up attitude.
- At helight 25 25 ft (6-8 m) and at covertant attitude, gradually apply collective pitch to reduce the slick-rate.
- Hesure level attitude before touch-down, and cancel any side-silp tendency
- Cent by hydronico lact los patch after touch down.

NOTE IN IS POSSIBLE THAT THE TAIL SKIP HAY COUCH THE CASSIVE FIRST.

2.2 Lending after Engine Felline in Bower F.C.F.

- Do not reduce outlies tive pitch.
- Conting! yaw.
- Sushion touch-down by increasing collective pitch.
- Reduce on lective often as money as the atropast is on the ground.

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2.3 Landing after Engine Failure in Hever G.G.E.

- Reduce collective pitch.
- Apply forward cyclic pitch to gain as speed expension; to well able height.
- ferminate in accordance with paragraph 2.1 procedure.

2.4 Automotetion Landing Freinling Procedure

- Peduce collective bitch to establish autorotation configuration.
- Regulator and construct righter in pie.
- Our Proj 4 that approach, what down the angine, or reduce power, maintaining the Hg above 67 %.
- After touch-down, etill at low collective pitch, apply the normal starting procedure.

3 ENGINE PARLUME

3.1 flow-out in Flight

The executions of an engine failure are as follows :

- Jank in the you exist only in high-power flight i.
- . Drop in rotor speed faural warning sounds tollow 350 rps i.
- . Torque et rero.
- . Hg feling all to zero :
- . Germretor warning light illustrates.
- . Engine of pressure drop sarning light fillustrates.
- In the event of an engine failure in flight, carry out autorotation transition procedure (see personant).

3.2 Religioning the Engine in Flyths

The normal relighting califying is 19000 fact, but, relighting say or attempted throughout the altitude envelope.

Proceed as put lined below -

- Booster puepe on Generator on
- April (mt)] Mg spile tpipe 30 % then chary all normal starting protection.

In miner to evoid any park on re-synchronization, accelerate the engine progressively, when free turbine speed approaches motor speed



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NG A

2.4 JUNIORSTATIONAL LANDENS TRAINING PROTERING

For the helicopters subjected to the maximizations specified in paragraph A of Almantonness Directive Mo. 90-1052 (and further revisions), en in AFROPASTIALE Service Toles No. 01258 (And further revisions), the automorations' landing training protedure of me follows :

- Reduce collective which to establish automatational configuration.

- Monitor and control retor (.p.m. them, without delay).
 shut does the engine (fuel flow layer on the "shut-does" parc).
 After laiding, with the collection layer in 'on postrion, main until the engine state
- Apply the retor brake.
 - After rotal stamping, apply the ramed starting procedure.



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4 BOVERNOR FACLURE

4.1 Tanga Drop in Fuel Flor Pate

Same symptoms as for exemplate anythe factions but after a few seconds. Mg. stabilities at a lowin pile inside (less than 70 %).

- . Establish automotation (.4.5. 65 kt (120 km/hm), then advance the fue) tiou control into the energency sector. No and t4 should rise.
- . Control angine aprod to 70°4 %.
 If retarrany, increase collective patch to bring notes access to 350° a m
- . inchesse fuel flow until rator speed is approximately 360 f.p.m.
- If in collection prach and fun) flow control to hold level flight wt this rotor spend.

9.2 Exessive Fuel Flow Rate

Ng. 14. MR and tengua increase

Do not reduce of lective pitch.

Reduce fuel file until motor speed commonstrate to a position of the indicator pointer in the centre of the green area (antition filight with the governor out of action. Any reduction of collective pitch will cause an increase in motor speed which suct be countries as you just my time fuel flow control position.

4.5 Sunging

Surging as authorized by substing of the nuple , torque end of \inf indications and jorks in the year enter.

. Change the collective pitch setting

If garging persists white luci pressure and engine of pressure are correct, reduce fuel flow slightly to leave the poverned range. If surging at III persists, land as soon as possible and and out courths engine it there is a tendency to divergence (see perspect 7.1).

5 ENGINE FORM

5.1 Fire during Engine Start

- Close the first state off cook and apply the notion brake '4 recessory.
- Switch off the booster pump.
- Commarting anyther for LD seconds then perton off the battery.
- Use the nearby extingularizers to fight the fire

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TCT.

5.2 <u>Fine in Firght (1FIRS) light on)</u>

- Enter autorotation (see paragraph 2.1).
- Close the fire) shut-off chek to stut down the angine
- Switch off the besiden purps, gotto atom and alternature 4 If Gretalieau.
- Switch off the diecor tool nexter "ALL OFF" switch "I there is a grell Of Burning

6 SHOKE IN THE CARRY

file 19 Source of Broke is identified

- Shot off the corresponding system
- If recessory, use the fire entinguishers.
- Air Se sabin by opening -
 - The front went lighter
 - . The vent lation ports the bas writter sindows.

6.2 | I source of Sacke is not identified

- Shut off the heating denieting system.
 - of the anche does not other
- Suitch off the electrical easter suitch (TALL OFF-);
- When the smell of above her cleared, set all switches to foff: including the garacter and altorrator (if installed), close the cehin vertiletors.
- Peach the "ALL OFF" a worthical master switch to normal ocalition
- Switch on the personator, check college and current.
 If submything is normal, multiplied on the circuits one by one until the refrontion is lambidied.

MOTE : If the electrical power expoly system is facility, carry out the environmente oriometere, se databled in Section 3.3.

7 JANU HOTOH FAILURE

7.6 Fail Poter Onlys Failure

tops of the test rotor in power-on slight negults in a you newcord to the lest , the extent of such natorillo will depend on the power and spent configuration at the time the failure occurs

7.1.1. Faithurs of the Total Room in Hover or at the Speed

- 1.6.E. I large the strongs to the ground by reducing collective pitch before the year rate is too riful.
- 0.6.5. I reduce collective pitch moderately, to reduce you corous, and strutteneously start to pick up speed

* If Installing

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Add the following rest to paragraph "7. TAIL BOTCH FAILURE"

CAUTION
LANDING IS MADE CASIEP BY A WAND COMING FROM THE RIGHT IF THE
AIRSPECT IS COMER THAN 20 IN (36 km/h) GO-ARQUND IS IMPOSSIBLE
DUE TO THE LOSS OF EFFICIENCY OF THE FIN





7.1.2 Fellore in Forward Filight

- In forward flight reduce the power as much as possible and nationals forward spend (weekhercock effect), select a suitable halding area for a steep approach at a power anabiling a responsibly coordinated flight.
- On iting! approach, stut down the engine and make an automotyphise landing at the least possible agend

7-2 191) Pater Control Failure

- Set 1.4.5 70 Mosts (130 km/hm), in Tava (4) ight.
- Press the hydracomulator test push-button lithis data off hydrachic power to the year service of the last button is present test button to the normal service attenuation. Other 5 seconds, reset the test button to the normal physicism.
- Make a gradiew approach to a clear landing area with a single mide elup to the left. Perform a number landing; the mide plug will be reduced progressively as pawer in applied.



3.1

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SECTION 3.2

SYSTEK FAILUMAS

1 FUEL SYSTEM FOLLUPES

L.1 Ho fuel pressure

Failure to confirmed by illumination on the FUEL P. Carming light. See Section 8-3 pers. 2.2.

14 failure is not conficeed, the faulty item is the fuel pressure gauge. Filest may be continued.

1 2 Low fuel gressure

returns to continued by influenties for of the F.F3L1 warning Tight. See Section 3.9 para. 2.2.

If father is not continued, the faulty tem is the funl pressure cargo Filarit way be continued.

2 ENGLINE STATEM FALLURES

- 2.1 Law English Onlightmental "Gauge eminter in red are for fig stooke 85 X"
 - Test Manning-Caution-Advisory Sanet and check BAG, P. Highs (Trunipates)
 - . Light does not 11 unimate when tested -

If torquereless reading is much too low, exact down engine and make an automatation landing.

If torgoverer reading to correct, land as soon as possible.

, glight () log (nates when tessed)

It torqueether reading is much too lov. Find the soon as possible.

If torqueseter reusing is correct. Land as smark as practicable. Honiton 196, P. light.



3.2

2.2 Engine 01] Emperature higher than No Year specified

2.2 L At Low Special or in Hover

- . cand if possible.
 - · Stop the engine
- Greck that the cooler for uporates.
- . If landing faccounts's
 - Increwe speed and reduce power
 - Fly at approximately 30 knote (100 anthr).
 The began store should fall reptilly.
 11 this result is not obtained, land select as passible.

2.2.2 In Coulding Hitspht

Reduce power , then proteet as prescribed above.

3 No DIFF... TORQUE, 14 & NR : ND: CATOR FAILURES

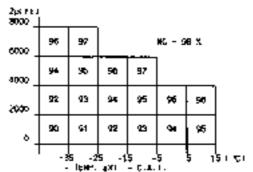
3.1 Mg difference Indicator Failure

In the event of an indicator faith, a, do not exceed the next p_{ij} but has seen to quantum outlier, and keep the fit temperature below the fallowing limits.

0.A.T.	16 Sp /t
Below 15℃	730 °C
Above 15℃	750 °C

3.2 Torqueestor Fallure

In the maint of a torqueneter failure, do not allow the angine speed to rise above following $M_{\rm B}$ limits:



3.3 til laddowton fødlige

- Comply with the Ng Helitations (never to "LINETATIONS" west ton).
- Do not attempt to start the engine.

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3.2



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Page Z

3.4 Abnormal MRVH+ Readings

3.4.1 用/hf readings below shims afti

- Vir and NR values some
 - . Excessive power demand . require collective pitch.
 - Indicator reading should rise to governed wike.
 Assertor failure (rotor to Sottion 3.) paragraph 41.

3.4.2 Different WWAF readings

- Iffi reading exceeds M
- . AP needing in incorrect, except in automotation incor zone torque).
- Milliand the excess MR
 - . On the ground curling the scarcing sequence : reduce the engine fuel
 - flow control setting to obers for pushible (remained) slippage.
 - . In fillout . MR reading to probably incorrect Leafer to 6 3.5%.

3.5 Rotor RFM Indicator Feillure

in the mount of complete loss of MR indication :

- Mg:htgin engine through about 10 %. We reading to then given by the oil powerter.
- Land on such as possible.

3.6 Free Turbline RP4 Indicator Feitlung

Shack that NA reading membrus within governed range when collective pitch is alsoly applified with engine bongue above C 2. Continue tilland

4 HYDRAULIC SYSTEM FAIGURES

4.1 Yes Servo-control: 51/lde-velve Sejzur#

- In hower . If no movement about the year skin, lens normally .
 - it notes from extent the year exist out off hydraulic pressure by octupting the switch eliteated on the
 - collective pitch control "ever.
- In provising filight i Radice speed, entering into a single-slip of necessary, then but off hydraulic pressure by
 - necessary, then but off hydraulic pressure by actually the switch situated on the collection
 - offich control lever.

A 2 Main Service control Stide-valve Setzure

- Actuate the syltch, elituated up the collective pitch control laws.
- to due off hydraulic pressure. Load feedback will be felt insectiately , load feedback may be heavy
- If the he icopter is flying at high exect :
- . collective pitch 20 kg pitch increase load . cyclic 7 to 4 kg left-hand cyclic load
- . typilo 7 to 4 kg left-hand syclic load . cyclic : 2 to 4 kg forward typiko load
- you pedans ... gractically no lose in crutering filight.
- Accure remed to 50 knots (110 km/hr) and proceed as in the case of 19 ha inghion of the "HNO" light.

_{≆0 82} 3.2

5 BLEED WAINF FIND ON NO DIFFERENCE INDICATOR

The Flag disappears show the bleed valve choses.

The bleed value is normally open when the engine is shall down, during starting and as low power.

"he kg values at which the planet value opens and places depend on the temperature and altiquos, and are specified in the Molority PROCEDURES. Sect ton.

If the fing does not unexpeed above the specified by value, the next sum the first operation of the second of the specific of the second of the s FGY FDSO'C. Svoic sudden puser vertetions.

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SECTION 3.3

MARHING-CAUTEON-ADVISORY PANEL AND AURAL INVINCENCE

1 AURAL WARNING

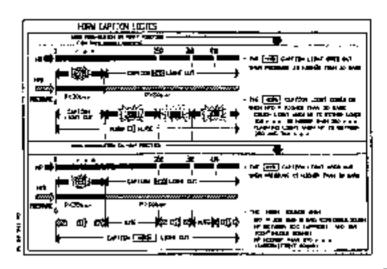
the harm sounds so warm of :

- Rotor speed (4k) hetewen Approx. 250 and 360 r.c.m. (continuous sound).
 Rotor speed above 410 r.p.m. (intermittent sound).
- Hydraufic pressure drop (beick 30 bars).

It is operative only if the *HCRM* push-button is pushed in.
When this push-button is out, <u>at moning) roter speed,</u> the HDRM tight of the warming-causior-advisory canel is Oh.

Alam procedure (if IMM aguida) :

- If the HYD marning light is on :
 The Maifunction is in the hydraulic system, see paragraph 1.
- If the HYD maching light is out :
 Check MR :
 - . If MA below 360 r.p.m. (continuous sound)
 Reduce collective witch.
 This can only occur in the avent of an engine Failure. Check the engine parameters by pulling slowly on the collective plack lever.
 - . If we about 410 r.p m. (intermittent sound)
 Slightly increase collective pitch in oder not to enteed 450 r.p m.



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Tage 1

2 MARNING-CAUTTON-ACYTSONY PANEL

The Marning-Chution-Advisory Panel located on the instrument panel includes lights of different colours .

- Red to indicate a failure requiring immediate acctor.
- Amber to indicate a failure which does not require immediate action.

2.1 Ked Lights

Light	fanlure .	Pilot acçion
conf1	Servo-control system failure. The pressure stored in the accural ators allows sufficent time to reach the fall-back speed wish hydraulic servo-assistance. If of the pressure drop is also read by sounding of the horn cabin. INOTE: The yaw servu-control is equipped with a load compensator and a hydraulic accuralator which remains pressurated indefinitely after a hydraulic power cut-off via the collective lawer hydraulic power cut-off via the collective lawer hydraulic power release control. The accumulator may be depressurated by pressing the HYD. TEST pushburton. Do not press the HYD. TEST push outton: this would cause immadiate depressuration of the accumulator and the resulting control loads could	- In flight: Calmy reduce collective pitch and ejust the air-speed to be under 11 km/hr) in level flight. Cost off the Pydraulic oressure, using collective lever pushbutton. Control loads are falt: - on collective pitch increase on forward and theyelic. The horr stops (but the rather nors, function remains operative). If necessary, increase I.A.S., but the costrol load feedback will also increase Make a flat approach over a clear landing about and land with slight forward speed. Shut down the engine, holding the collective pitches: on the low pitch stop lever on the low pitch stop lever on the low pitch stop lever on the low pitch stop
FEU/FIAC	be heavy. Refer to Section 3.1 paragraph 5	

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2.2 John Hahrs

		
L 1ght	Failure	Pilar action
GE HE	- O.(. power supply failure . (See MOTE 1) Overvoltage desacced	- Test the D.E. voltage Check the position of the push-hugger, - Attempt to reset
GEЯ		- If wisuccessful: Shed the least essential Consumer circuits; cancinue flight, according to circumstances, keeping a close check on voltage (22 volts minimum). *- Naxioum flight like on thetery
		Ozy , 50 Mm. Might : 20 mm. (see MOTE 2) Land as soon as practicable. See aluttude limits after Booster pumps have been patiched off.
BATT	Battery isolated from the d.c.	- Check the push-soutton (CH),
₽≜T	(see NOTE 2)	- Keep a watch on voltage Combined flight, according to clickwistances.
KLAXXW HCRN	Horn was set	- Set the horn by actuacing the push-button situated on the control padesral pades (see paragraph 6 of this Section).
FUEL	Fuel quantity less (Man 60 httres (15.8 US.Gal)	- Around large stritude changes. MOTE - Remaining usable feel allows approximately 18 minutes level flight at maximum continuous power.
PITOT (18 fitred)		- Check the push-hutton (GM) Monitor airspeed indicator.
PORTES DOORS	One or both saggage mold vice doors unlocked : MOTE: If sliding doors ficted see relevant sagplement.	- Reduce airspeed (120 kt - 122 km/hr - 138 m/Hr Haifman) Check visually that doors are closed If one or both doors are open, or if checking is impossible : Land if possible, or conclude flight at reduced speed (170 kt - 222 km/hr - 138 m/H maximum).

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AK2C

Diffusionation of BAG CHEP (MOT LINE) control light :

Replace the existing text as follows :

OMPTION	MALFEMETIÓN	PILOT ACTION
THE CHIEF	Metal carticles in empire oil system	Lard so soon as possible
मान वास	l <u>-</u>	

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Burnhadian of ENG CXP (MOTUM) costson by Y

Mostry mig read of RR 2C da loadway:

CAPIIC*	NATE (NICTION	PUDI ACION
(NG CIP	Metal particles in asigne of syllen.	Long of took of south
MC1 (M		in a prohibited to rake all again as long as the checks scheduled in 11880-0400A. Vita humanus Monual have not been performed.

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PAGE 5



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MC.C

illumination of ENS CHIP (NOT LIM) coution light

Refore embodiment of modification AMS 072598 :

In addition to Pilot Action, apply the fire- \ln flught procedure specified in paragraph 5.2 of Section 3.1 if the following occurs :

- Smoke in assumed engine area and/or
- Smell of burning in cabin and/or
- Hunring of engine off pressure indicator pointer.

ţ

2.2 Antier Trighte (Condid)

Light	fallure	Fright act for
Ponfes Books Literaties		- Maintain low eight rate and flat landing approach.
MS)" LIM ENG CHEP	Matai particles in engine ali Ayelen	- Monitor oil pressure variations, the engine partmeters (Ng-oil temp. I being (dentical of oil pressure increases by 1 being application of oil pressure increases by 1 being application of increases being of the engine in accordance with IUMAGENETA Maintenance sith IUMAGENETA Maintenance sith IUMAGENETA Maintenance sith IUMAGENETA Maintenance of increases being out the restrict indicating indicating of the engine of indicating increases the capturing of the restrict indicating increases the capturing of the restrict in the IUMAGENETA Maintenance Manual. If shink particles on dark sharings are found on one of the magnetic plage, take-oif is PROPIBILED until the checks asset find in IUMAGENETA Maintenance Manual are performed.

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69-17 Fegs

2.2 <u>Amber (lighter (Contid)</u>

Light	Faffure	Pilipt action
FILTRE C	Fuel filter clegging	fieduce engine power - 1" light goos out, continue filight at reduced power. - 14 light remarks on, lend as soon as possible.
LEN BTA (자네카 1698	Peta' particles detected in 198	- Cantisue 11-ght avoiding prolonged hovering.
LIM BTP CHIP WOS	Petal particles detected In POS	- flecture angline power Moniton MGS M. and MGS.F. Trights Should either on both lights if low mate refer to illumination of nelevant light (s.). In Tulght' column.
P. (OMB PUBL P.	Fuel prémouré losse then 6.2 bet en eltrer en both pumps	- Check fun; pregupe . If pressure is normal, only one pure is failty . Illight may be continue; . If pressure is pere pour parking are taken by . Illight may be continued at an elititude lower than 5000 ft (1524 m.)

MOVE 1 : Whenever an electrical directly define occurs, these the converseding fuse and change it. It recessary.

Replacement fuses are provides on R.H. Wide of capital

MSTE 2 . List of functions which work remain Oh When flying on the bettery only

: Battery, fuel sumos, VHF, Radio-Nav

North is Same as day plus : Instrument lighting () and 2), her izan, position lights, anticollision hight.





SECTION 4

NORMAL PROCEDURES

CONTENTS

4. <u>L</u>	OPERATURG PROCEDURES
	1 CXT(RMAL AND INTERNAL CHECKS
	2 CHECKS REFORE STARTING THE ENGINE
	, TARTING
	4 CHREKS MFFCME TAKEOFF
	5 TURZOFF
	6 PRIBMEJ? 8
	7 ERUISING HLIGHT MICH MADELVRES
	B APPROACH AND LANDING
	9 AFTER LANDING
	10 USE OF THE FEATURE / DEMISSIONS SYSTEM
	11 DAILY CHECKS
4.2	ENGINE FORER CHECK
	1 LH-FLOGHT CHECK PROCEDUKES
	2 CROUND CHECK PROCEDURES
) DISTING THE SPIGINT POWER CHECK CHARTS
	4 Mg DERFERENCE CHECK

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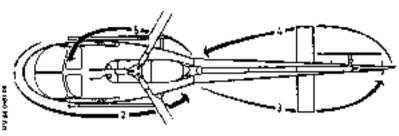
SECTROM 4.1

CPERATING PROCEDURES

1 EXTERNAL CHECKS

MOTE : Ensure that the inspection after the last flight of the preceding day and before the first flight of the day have been carried at.

- Check that the ground round the aircraft is close and unabstructed.
- (arry out the following theat :



Engure 1

Station 1

- Tocal pressure head (PITOT) Langing gear (cross-nembers. skids, wear-registant plates)
- Youar ramoved Check climan
- Security visual check

Stateon 2

- Port hald -----
- Fuel rank and system - M.G.E cow) ---
- All lower fairing camets ----
- Main Rate: Head ne----
- Hydraulic Enit/System = - Engine Air Intake ----
- Raar told -----
- Main Roter Blades -----

- Door opening acrtan. Wo locae objects.
- Clasing, latching. - Filler plug clased.
- Check M.G.S. all level (steps). Class coul, check closed.
- Clused, check
- Inspect star, sleeves (peeling), spherical thrust bearing, admitaters (separation).
- Creck hyd. reserval? Mutd level.
- Llean (water, snow, horeign metter).
- If applicable : open donn, mai mocked up place, close down
- Security (assachment), pospect from ground, for stans of impact.

Station. 3

- r Oul Deaks - Tail book and T.b.E fabrings
- Tail Rotor Cear Box ------- Tail unit ----
- No all under acupuers.
- Security (baus fasteners locked).
- Dil level
- Security-

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Station 4

- Tatl rotor blades -----
- T.C.B. and Tail boom fairings.
- Condition of skin, no impact (desty, ett), lawingted stops (separation).
- Security (Drus fasteners locked).

Section 5

- Sterboard hold -------
- Landing gear (crossmercers, Spids, wear reseatant plates)
- All lower teining panels -- External power receptable door
- M.G.3. scwl

- If necessary : open door, check no loose objects, close door, check
 - Security visual theck.
- Clused, check.
- Closed, sherk.
- Check engone oil least (steps).
- foreign objects on transmission deck.
- Close cowl, regula.

INTERMU (MF(45

- Cabin	Clear
- Fire extendunsher	Filted
- Fuses	Filted
- Objects carried	Sto⊷ed
Capr jettison	Checkent

Figure 1

[ten	Description	ltin	Gescriptson
1 2 3 4 5 6 7 6 9 10 11	Engine constoring instruments and systems Stand-by compass Flight controling instruments Marning-Caution-Advisory Panci The Control Peda's Spark fuses Cyclic stick grip Cyclic stick friction clamp adjuster Fuse bane) Collective patch concrol lawer Paloc and Copilot headset jacks	12 13 14 15 16 17 18 19	Utility power outlet Eabin heating (*) control Demister control Control Quadrent, comprising: a) Rotor hrake control b) Fuel Fice Control lawer c) Starting ewitch d) Fuel shut-off control Collective Piech Lock (low piech) Control tensole Redio, 1.4.5 and Redio- Va- vigation - Control Panels Cabin ventilation parts and lighting features D.A.T. Indicator Instrument panel lighting diemer potentiometers.

^{*} Optional

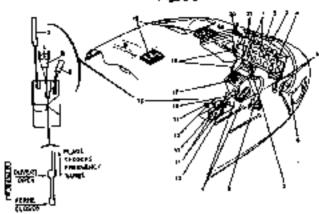
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4.1







2 QUIDOXS BEFORE BY ART I'VG THE OVERNE

Determine afforming performance limits for the expected flying conditions issue "PERFORMANCE" section: Ensure that weight and 0.6-1% with which being the 0.6-1% of the section of th

Carry out the following checks

 $\frac{\text{MOTE}}{}$. Check mark localarity that the co-pilot sent bolt is fastered when this exact is not occupied.

- Battery and Demarator in directit	04 (17)
. Lights on with 4/s bettery poses: :	٦
nyū, gew. Mge A. PSTOI. BMG.** . Lighte un with external punkf :	. (4)
HND, GEN WAS P. EMS P. MICOL. BAT	1-
	J (1)
- Battery voltage Owerked	- (1)

- Press the MND 1857 pushbuiltum for approx. ? securics to decree year hydraulic pecustalator in train to center the year peculs - flight controls Freedom of Bravel - Cyclic pitch control otter	121157
- Collective pitch control lewer: Locked	(10) 16 (8) (30) (15a) (156)
- Fuel shall-off lever inskehild Forward . Fuel Flow Control	(195)

DGBC Appended. 350 82

	- Fast Warning Caution-Advisorry Penel Tampe - W/UT 1851 EFSRE Tight Illustration time delay * approx 1 sec.! - Ng cifference Indicator : . * Ng difference equal to zero. Ng displayed equal to theme?	(17) Ical
	TMg. MAX 1/3 PMR1; see section	4 34
	Sleed valve 41ag Yisibi⊎	(4)
	− Hydraul No pressaura On	(LD-J
	(it isolated the HORW light will come on)	
	TE SO ACCE DIE NOW TIGHT COME DIS	
	- Heating system", derister, sir	
	concistioner Off	(13 K14 X 21)
	Synchronic fractionality On	(171
	ay campic and make	VD.
3	STARTIKE (3ten numbers rafer to Figure 2)	
	- Switter on the poweter pumps . On currents	6133
	Check Yuel quantity	
	 Fuel products on each pump separately 	
_	- 30 seconds often switching up the booster pump, press the	
	To select the selection of the best the page, press the	
	"ater" pushoutton	(15c)
	- When His reaches 10 %. Moral flue: files control forward	
	about 1/3 of its travel races	(1981)
	about 1/3 of its travel range . (When 0.4 T. is below 0°C, open the fuel fice control at	1130/
	(AMAN U.S.). To Daige U.L. appen the full free control at	
	The same Class the whart position to presided in	
	MOTE . In will cames, keep the stanter numbing throughout	
	the starting sequence.	
	. Other . Ag Increase and	
	Control to by including the fuel flow as required	
ı	Inoid to be be upon the distanting limits.	
ı	. Deck that the rotor starts to turn.	
ı	- At Mg = 40 - 45 % release the "ecant" push-nutton	
ı	- HC Ng - 40 - 40 2 THINNESS DW HCMC BISH-SDEES	
ı	. Check that engine of: pressure rises	
ı	 Gradually increase the fuel files, values into a constant. 	
ı	rate of roter accorderation	
ı	. Check that the following Marning-Caution-Advisory Panol	
ı	Hights go out : (see WOTE)	
ı	The table of t	
ı	PHK (ÉMG.Pilahould be out at 70 ½ Ngi	
1	- PH 81P (PGP.P1	
ı	- MOD, with signiful armous illustration of the 成的M	ר
ı	(HCHEV) Tight	
ı	- 10,4900 (HDRN) (ight 11ashing from 250 year (NR)	(41
ı	- Cabba caban tilling transition of the San class car.	144
ı	 Onder pure inversing operation at appreximately 350 rpm 	
ı	. Drack MP pullition In the grown core of the Indicator, near	
ı	the lower Drift	
ı	. Oreck - fuel flow control in 'flight' position	
ı	- And a second decided in the But best and	
ᆫ		
	<u>MQTE</u> : Our inglengthe exceleration, go not alliquids value to re	wra in
	steady between 300 and 320 r.p.a.	
	and a second second second second second	
_	5-5 /	
	Počinca (



Œ

Disconment external power, if used (heck: Marming-Caution-Advisory Page) GEN and BAT lights off	(4) (12)
Switch on the HORM . Oneck that the PITOT and HORM lights go out	(a)
- Check : . Agi warning and courton lights off	(4) (1)
The full P. warning light is on	(4)
 Switch on/engage all necessary systems (wef, lights, windshield elper", erc) 	
HOTE: Do mot use the wiper on a dry windshield or in light	P240.
- Carry out a hydraulin accumulation test: . Check : callective pitch - locked	(10) (16)
push-button	(12)
More that cyclin scick or 3 times along bear according to the service of the se	perferance b
Press the test sushbucton to restars myousand in console pressure. Chock that the HoRSM is concepted and Hrt. [130] goes out.	(17)
 Carry out a hydraulic pressure isolation theck: 150late hydraulic pressure by accusting the switth on the collective patch lever: the HCD light interest and sampled lead by felt immediately, except on vamipedals, control lead should remain by Decause of load-compensation. 	Wing (ing
servo . Restore hydraulic pressure using the awiech ; the HORM ; until the HYD light goes out (2 - 3 Ser.).	younds

HOTE_1: In strong wind, apply a hittle formula cyclic and eccelerate the engine, up to approx. 320 rotor :.p.m., as fast as is compatible with td inmitations, then follow normal procedure.

Option21

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ξ7 Page

- HUTE 2: . If the standing cycle has no be abortegs, return the fuel flow (ontro) to the closed position, and switch off the fuel pump and the generator.
 - . If the reason for aborting the start is high E.G.T. (t4), thack the sattery voltage.
 - . If voltage is normal, crank the engine for about 15 seconds and immediately make a second attempt to seart, increasing the fue flow gradually (without allowing My to drop between cranking and the second attempt to start).
 - . If barrery voltage falls below 15 volts during the attempt to start, it may be impossible to obtain hight-up.

4 CHECKS BEFORE TAKE-OVE

**************************************	Clesed
- Doors _	
- Herigation	
- Radio ravigation	Tests, comment operation
- Radio comunication	
- General and cyclife friction clamps	4djusted
- Pressure and temperaturey	
- All warming and caution lights	Out

5 TAKEOFF

Take off by gradually increasing the collective price and maintain hover. head into wind, at a height of about 5 fc (1.5m). CMACK READ The engine and transmission monitoring instruments are within every normal operating ranges. For transition from sover. Ancrease speed without increasing the power damand (power regulard for linear T.G.F.) and without alimbing until [.a.S. is 40 kt (74 km/he),

 $\underline{\mathbf{witt}}$: the bleed value flag disappears when the value closes. The bleed value is somethy open when the engine is shut down, during starting and at low power. Bleed valve clasing depends on the 3.A f. and on the altitude as shown in the following table of Mg. values at which the bleed valve should chose,

Zo (ft)

	-40	-30	-20	-20	0	1D	20	30	40	30
٥	89.7	85.4	87.1	₿ 8 .7	90.4	91.9	92.7	54.9	98.2	97.B
1000	84.2	65.9	87.6	69.4	Sa	92.6	94.1	95.6	95.5	:
10000	65	96.7	96,0	90.1	91.8	93,4	95	96.3		
15000	98.9	ፅን.ን	99.4	∌ 1.1	92.7	a. G	9 5.9		_	
Z0000	87.1 ³	89.9	90.7	92.4	94	95.6				

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Maragraps 4

Complete the collection and exclic fraction clarge check as follows .

- Collective and sysing fenction glamps Adjust an recoursed

Sufficient friction must be applied to the collective and cyclic so that the controls do not mayor eithout specific pilot action. #3T*

囮

6 0.146

 Climb to a beight of at least 100 feet (30m), at the materials the same governments.

Sup $q_0 \in A, S$, of 4S knots (LB2 kn/h) or that shown at point E on the height/ainspeed diagram if growten than 4S knots.

 Women 100 (EL 130s) the main continuous power and the optimum climbing speed of 55 kt (132 km/h) may be examined.

? CAUTSING FLIGHT, MAKKELNIRES

2.1 Gramming F11ght

For fast cruise apply the M.C.P. for the preventing slight conditions
permitted by the first of the following two limitations reached: Mg.
644ference, or Tompus.

7.2 Managumes

Maximum Good Factor in curry is felt in the form of servic-control "transcension", this preminence is specific and presents no danger

- In maximum power configuration, it is advisable to decrease collective offer plightly before initiating a turn, as in this renceivre power requirement is increased.
- In hower, avoid rotation factor than 6 seconds for one full rotation.

A JAPPANIKOH JUMBI I MADEND

6.1 **4pproson**

 Final sporoach should be made into the wind at a low sink rate and resummented althought of 65 knots (120 km/hml)

8.2 Landing

From hower, reduce collective proch very gradually until initial tourisations is made, then concel collective pitch completely.

CAUTION - MARIN LANDING ON A SLOPE, RETURN THE CYCLEC COMPROL STUCK FO NEUTRAL DECOME CHANGEL ATION OF COLLECTIVE PETCH.



E

9 AFTER LANDING

Engine and Rutor your down

- Switch off all immenestary power-consuming systems.
- Mark 30 seconds unt'l speceratures have atabilitied, held Ng corresponding to 1012 low pitch (finght tole) or record Ng to 57 and 70 % by retarding fuel flow control.
- Switch off the generator, fuel pumps, them will other consumer circusts.
- Schutesen the engine by setting the fuel flow control to the sentener guest ion.
- Pully apply ration briefly when notion speed to :
 - 140 m. p. nr. lower Normal VP.
 - 170 c.p.m. on lower Newtonia NA CHisgs wind condition:
- After complete rotor stopping .
 - Prices the MRD. TEST past-builton and leave it in for 1-2 seconds, then prices its out, in order to :
 - decressurize the hydrauliu accumulator,
 - . recenter the year people, if requirec.

TO LOS OF THE INCATOMOZOCHOSTONG SYSTEM

At temperatures higher than $r10\,\mathrm{TC}$, check that the c4 temp. If wite are not exceeded,

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Fanaghaph 9 AFTER LAMBING

2nd sup-paragraph read :

- want 30 papends until temperatures have stubilized. (equaling we to 67×700 by retarding feel flow control

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1) DAILY CPLEATING CHECKS

Daily helicopter operation requires three thecks -

- . check before the first flight of the day.
- check in conjunction with Might,
- check after the last flight of the day.

These daily checks may be carried out by qualified maintenance personnel or by a qualified pilet. Any atteration or decailed inspection to determine servicesbility as a result of these checks must be done under the supervision of a preparty andorsed Aircraft Maintenance Engineer and doly entered by the Aircraft Log Book.

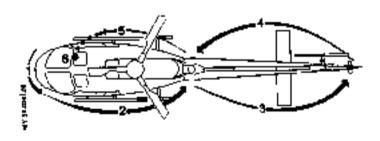
(macks before the first fillant of the day (BFF)

11.3 O<u>ytside (he</u>: MS

REMARK :

IF THE ATROPART HAS BEEN GROWNDED FOR MORE THAN ONE WEEK, BEFORE OPERATING THE FLYING CONTROLS, MEPE THE SERVOCENTROL MISSION ADDS WITH A RAS IMPREGNATED WITH SERVICE FIEID.

- (Peck that the pred is chean and clear.
- Remove the blade secks, if epolicable.
 Perfect the following (Mecks.



STATION 1

- Pitot heads and static wents ... Blanking tower, drain received Sideslip indicaror (gndition

STATION Z

- Engine air intake - MGB - Over the engine coming - Transmission deck and engine Close the angine coming - Tail pipe cover - Fuel tant - Filler cap - UM baggage compartment door - Maer (maling) - At baggage compartment - Main rogor blades	Cil lovel Condition, cleanliness Correctly locked Rymaned Purge Closed Locked tied down, doo- locked Closed Mo foreign matter, closed
STATECH 3	
- Tai) boom and TG? fairings	Security - 011 Level -
STATION, 6	
- Tail rocor blades	
STATION 5	
- RH baggage compartment	Connection
- Snowed power receptable door Open the engage cowiting Transmission deck and engage . Engage of Tank	Classol Condition, cleanliness Cil Nevel

STATION 5

-	Collective pitch costeol	
	and your pedaly	Aree travel
	Gas generator control	
-	Rotar brake control	Free Movement
_	Euch shut-uff contest	Engaged assisting

MRC.

Parzgraph 11.2 : Tomarcoad Check (TA)

Complete the Turnaround sheek as follows :

 Check the angune of; reduction gener respectic plus (wintput electriquit andication) every 5 flyding source measurem.

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11.2 Tornaround theth (TA):

The turnground check constaty in :

- thecking Muld leve's,

- a rapid check of the main and call rotor b ade skins,

- checking that all loads are securely tied down, baggage compartment doors and cowlungs are correctly locked.

Should the currenced time by prolonged, short term picketing of the Aircraft is recommended : blanking plugs, covery fitted, even blade socks and poles in winds preacer than 40 krots.

CAUTION : IN THES CASE, ALL PICHETING AND HANDLING TOOLING MOST ME AFMOYED BEFORE 1992 NEXT FLIGHT.

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Page 11

22.3 Check after the last flight of the day (ALF)

CEMERAL :

This there amintains the aircraft flightmarthy. It consists in carrying out a visual or (ACTITE examination of the condition of a (Omponent, an assembly so as to detect defects which could affect correct operation, but does not require the use of any special techniques or tooling.

Pay particular attention to the elements marked with an asserisk ***.

MOTE 6 * Magnetic plugs which do not have an electric increasing system may be checked for metal chips during the AUT check pearest of the SC-(loting hour lines.

<u>MOTE 8</u> : This check for defects may be performed during the ALF check relatest to the 30-flying near limit.

(ALF CHECK)

STAIRON S

- All cransparent panels (leastiness (clean if required)
- Down jambs, canopy and members, he faults har cracks
- Capin access door Security and correctly locked
- . Pitoc heads and static venty ... Fit blanking covers

STATION 2

 LH baggage compartment door (endition, security, open, all objects tied down, aless and luck

BCAC Approved:

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AR 2F

Paragraph 11.2 - Thesh After the Last flight of the Gay (ALF)

Station 1

Complete the checks with :

- Sinding window (pre wochfications by 25/3 and 07 2382) ------ Free from Payits, chacks, unbonding, less of sinde

DCAC approved

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LAI ITIDIE, FAGIH.

33-50 Page 13

R9 2H

Paragraphs M.3. Check After the Last Flahl of the Day (ALS)

After "SSIERAL", please read :

MPOSTANT

For the ARRIE, 101 engines not modified 10 197 not 10 202. When sharing down the angine after the last light of the day, confirm that there is no abnormal noise during the autorophon of the gas generator. This check par be performed on compensation of a crossing operation of no more than 5 seconds, immediately often eagine shutdown.

DGAC Approved 350 82

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PAR 2K

REPLACES THE INFORMATIONS CONTAINED IN RRIZIN

Peregraph 13 3 (theox Aner the Less Hight of the Day (ALF).

Aller GENERAL presso read

NOTE C . This chack for detects can be performed during the ALF chack before the 30-19(n)

hour or 150 operating cycle limit.

WPORTANT For the ARRIGAND progress not modeling TU 202

When snutting down the engine what the less from of the day, continued the hold the should be no abnormal room dawing the autororation of the gas generated. This should can be performed an completion of a cranking operation of no more than 5 seconds.

minediately offer engine strukture).





RR 24

Paragraph [1,3] Chack allor the lost Right of the day (ALF) :

Station 2

Conglete the checks with:

- DUNK(if servoconflox

No creats on the body. leading to peopage

DGAC Approved:

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MICIDIEIE GÜÜ

97-81





RFI.2K

Perspect 119 Check After the Lest Paght of the Day (ALF).

Complete the checks with

Station 2

L^u landing pear .. Condition Contition, no leaks Short effected

Wear resistance place Sondten

Bedirectional cross been Check for cracks on laminate bearing. per Mod 87-2720 apper face, no MGB pick up side

See HOTE C



950 BC

OGAC Approved





- Shock Absorber, LM Manding	Condition, No leaks
	Londa Tiún
. Mean resistance plate	Open : condition of systems.
- MOJE COMITINGS	lacking system
- MGB 016 ,,	Oreck Turk!
	Cleanlinuss
= Italiatization bars	Security
- Serub(Antrals, hydrault: system.	Security, no loaks, lines
- Hodosolin reservable	
- Capling fet	Motor security, condition of blaces
- Fuel fibter	Security ; check paint marks ;
	elacetes bodicator rot kibbble
- Universe) joint assembly	Security, pins up place and locked
- MAIN ROTOR SPAFT	
 Swastiplyze bearing: check to 	
No northermed of this five	
Monutes after retor stops	No abnormal heating fe't when touched
	WITH HUNDER ME OFFERSE FERNAL THE LINE WE
	to colour nor scaling of paint.
. Scissory, smashplates, rods.	He friction point on play-
swivel bearings	All Titleden Byons on proy.
. Swashplate/pitch change rod	
end-fitting incerface	up traces of contact, payre scaling
graph realing three times the control	on sanitplace accarbance yokes
* Figon change rods	
тун 35/1437,1500.00 та .05	And upper and !ower end-fitting paint
•	Parks miet be visible and atigned
 Rotor sheft P/N 250A17.1076.00)
en of Lociusive All Visible	
section of the shalt,	Condition of paint, se crake,
garticularly under the bub	crazing, bilistering, surrosian ner
	tool Marks.
* MACH RUTOR HU3	. Security, general condition
. Star	- NO OF LEGISLATION (SECTION 2)
* Star recesses	
· Sprentcal throat bearings	
and frequency adapters	. My viascomer faults, unbending, Adratches, bilaters, extrusion,
	cracks.
	CLECKA:

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37 Pag

K.

. Self-lubricating bearings	adapter and the metal area. SEE MOTE,B We debrie nor play. SEE MOTE A
- Flamed howsing magnesic plug - Shork wount	ed became comps. See made a Security
Englise combing Englise wount Englise And englise compartment Englise and accessories	Operate from the smil rotor :
- Tail nise	
STATEON 3	
- Horvzoncel suebblizer, fin. tai: bumpe: - TG2	Security, condition Onl level, no leaks
STATSCH 4	
• YGB	drive staft
tealant beam to the base of th	¢ordillion. Ho metal chips. <u>SEE HUTE A</u>

Н

DGAC Approved:

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4.7 | 200 |4 89 2H

Complete the chacks with .

Stepon 2.

To 197 mon TU 202

When the T4 is less than 150 °C. Purring the compressor by hand, confirm that the pasgenerator rotates freely and that there is no associationes.

DGAC Approved :

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AR 20

RIT 20 SUPERSEDES AR 2L

Peragraph 11.3 . Check After the Last Fight of the Day (ALF)

STATION 4

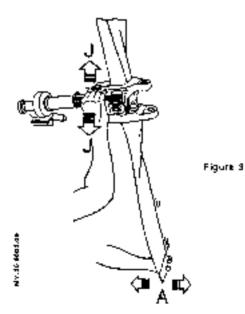
. THH

The check : Pitch change rod swive! bearing a replaced by

Pilch change rad swivel bearing ... Check, treter to NOTE DI

- The absence of play (J) by twisting the blades back and torth, low amplitude movements (A) (Aster to Figure 3)
- (Herer to Highe 3)

 The condition of the ball joint by visual inspection.
 That no Tation mererial has solvectod out.
 That the ball shows no signs of burnishing or society.



DGAC Approved:

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4.1



Purugraph \$1.3 - Check ofter the confection in the day (4.5) .

Signion S

Complete the precisi with:

- DBM OF servocantrols ------ No concision the bacty kruskig lo seepaga

DGAC Approved:

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A CIDIE FIGHT

97-11



. .. .



Peregraph 11.3 Check After the Last Flight of the Car (ALF).

Complete the checky with

SLANOVI S

- R# landing gear Condition
 - Short Hospiter Condition includes
 - Condition
- Bitwestienel cross beam . . . Charts for chattle on tertential bearing. pre Mod 07 2720 upper face on M32 pick-up side. See NOTE 5



* TAIL ROTOR BLADES * Tail retor blade spar . Laminated half-bearing	emergence Mc play Condition, security
* B4LAMCE ARW MINCE: (Flapping hinge bearing) according to TVTM: . Type 1: cups on other side of the pin	particules 40 play 40 creaks, extrusion, branze chips
- Battary - RH baggage compartment door - RH landing genr - Shock absorber - Rear resistance place - WiR runling - Transmission deca WGB - Wagnetic plug - WGB suspension bar - Servecontrols, Bydraulic system - Engine oil tank, system - Engine oil cooler	Security, conclution, logaling Fondition, no leaks Endition Oten : condition of locking systems Cleanliness Leakinghouses Mo metal chics, <u>see More A</u> Security Security, no leaks, lines Dil lavel, security, rigatness

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FLEGHT WANGA:

- Universet joint assembly - Engine mount - Engine and angine Compartment - Engine and accessories - Systems - Controls - Transmission dark drain	Condition, security Company condition, cleanliness halleabs Sinterpression
- MAGNETIC PLUG	
- ARRIEL engine magnetic plug After reduction goar magnetic	he metal utage on forward and after reduction goar magnetic plugs :
plug - Prot-modification To: 135 Post modification TU 135	Caily check SEE MOTE A
. FMS reduction gear poticinal magnitude plug	SEL MOTE A
- Engine and MCE (switings,.,	Clasing, locking
STATION 6	
- Sedi	

4.1

IΩ



The check of the ARMIEL angune degratic plugs is modufued at follows:

-	ARECE: prome magagine plage without electrical indication	Ho metal chips on forward and att reduction gear magnetic plugs.
-	Aft reduction year engratic plag	Check every 5 flying hours and dealy.
-	Forward reduction gear magnetic plug (optional)	See MOTE A

SECTION 4.2

ENGINE POMER CHECK

1 IN-FATOHT CHECK PROCEOURE

The angles prose (begin is made in flight.

1.1 Record of parameters

- Fly a Krabibized, level course, praferably at an abtique where there is little or no turbulency; shut off hearing and denisting.
- Sai the entire Speed to the maximum comparities with the mechanical limitation (torque no higher than 94 %) and Mg limit (M.C.P.). The bleed valve flag should not be visable in these conditions.
- Record the following parameters : torque, No. HR. altitude, 0.4.5..

1.2 Use of the charg

 $\mbox{\it kind}$ the chart in the direction indicated by the arrows, entering as follows :

- Tanque - MR - Altique

and

 $\theta_{\rm s}A_{\rm s}T_{\rm s}=hg$

Follow the example to locate point "P",

Engine power is Q.K. if point "P" is located in the region marked *CDRNECT".

- MGTE - If in doubt as to condition of the engine, repeat the check to eliminate any error of reading.
 - If necessary, check the T., Mg and MM instituting systems.

2 GROUND CHECK PROCEDURE

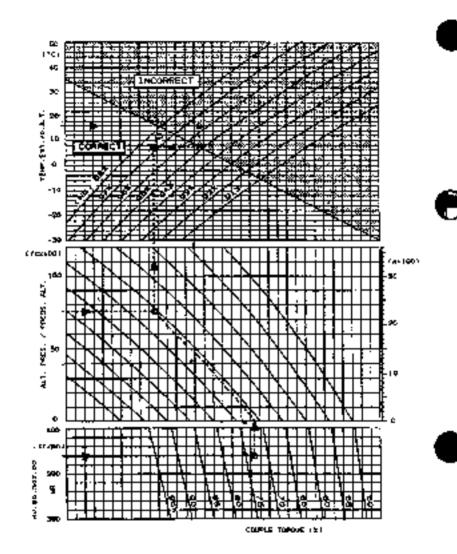
The engine power creek cannot be carried out at high power leve! on the ground with a high-power single-engine belicopter of this type.

Before forward flight in a 5 ft hover, increase the collective pigenenough to ensure a momentary May increase of as least 1 %.

After having reached a safe altivide, a normal inflight power assurance check may be performed.

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ENGINE POMER CHECK

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PAGE 2

- 4 NO DEPARTMENT INDICATOR CHECK
 - Record the prevanieng pressure-alcicude and () A,Y. values,
 - Determine the chaorotical ag, using the table below :

1EUP. ETT. Mp . 28 OA 1.	-#D	10"6	15°C	80 °C	25°C	50,C	35°C	40°G	48°C	50°C
1000	KBMIT PUEL	B DE	DEBIT	161.7	101.0	303.4	601,3	100.1	1 0 1.D	1DD.8
1900		ota:	101.7	101 🛍	101.5	101 8	M01.2	101.0	400A	100.7
3000	1001.6	1017	101.6	101.6	101.4	101.2	101.2	100.9	100 8	0 X 0
5000	101.7	101 &	101.5	101 4	101 %	101,1	101.0	100.8	2000 2000 2000	0.401
7000	101,0	101.8	101.4	101.3	161.2	101.0	e çût	W-044		× 000
9000	101.5	101.4	101.3	101.2	101.1	100.9	100.4	0 . 0 .	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	>> >>
11000	101.4	101.3	101.2	101.1	101.0	190.6	«× »»		·~~\$	~~~
12000	101.5	101.2	101.1		100.9	woxx	: > > 6.0	90.84	****	
15000	P31.0	1011	101.0	100.0	3300	3882	~~~~	~~~		***
17000	101,1	101.0				2888		***	,,,,,,,,	
19000	101.0	100.9	10 - 0.B	****	****	.xoxo	~~~	× 4 000	·× « • •	

THEORETTICAL "No. MAN 1/O PMIL"

Press the test push-button.

The following readings are displayed sucressively in the window ;

v (898

, then :

s) ---

(code indicating correct operation of the 0.4.T. probe ; see MOTS 1), then .

- Value of the THg MAX. T/G PMR1 prevailing on the site.
 The analogical polymer reads zero during a few submuls.
- Check that the "Aq. NOX. T/O "MR" read on the instrument is equal to the amenical "Mg. MAX T/O PMR" within 0.2 %.

HOTE 1 :

--

defective everation (short circuit).

defective operation (open cliniulity).

 $\frac{\text{MOTE }2}{2}$: When the Mg displayed is equal to 38 % within 0.2 % (Max. continuous poner), the painter should (MAC -3.5.

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SECTION 5

REGULATORY PERFOUNDINGS DATA

CONTENES

		Pages	
ì	THTMODUCTION	1	
2	SUBSTANTIATED ATMO PHVELOPE	1	
3	A.S.E. CALIBRATION	1	
4	SPEED VERSUS HEIGHT EMARLONE	2	
i	HOVER PERFORMANCE (.G.E	4	
6	HOVER PERFORMANCE O.G.E	6	
7	RATES OF CLIMB	R	
В	HOISE LEVELS	12	



REGULATORY PERFERMANCE DATA

3 TRITEDUCTION

The following performance curves apply to the basic version of the simplest, before to the supplements when optional equipment as fitted.

2 SUBSTANFEATED MEND ENVELOPE

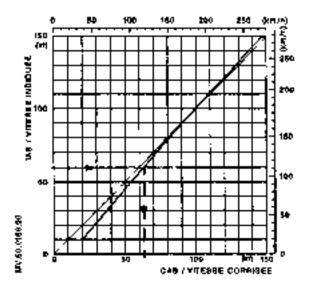
2.1 Wind city@lope for spinning and etopping the rotors

Spinning or scopping of rotors has been substantiated for winds of 40 kts from any direction and for 50-kt headwinds.

2.2 While evelope in bover

Howering with wind from any direction has been substantiated over the entire flight envelope up to winds of 17 kts, although this is not to be laked as a limit. For example hower at sea level at maximum neight, for all c.g. locations, has been substantiated at 30 kmm(s.

3 ASS CALIBRATION



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tays 1

4 MIRSPERD HEBORT EWELDPE

The avoidance zone (2) is defined by four points : A_{α} B, C_{α} D.

Determining Paints A and D

- Point A
 Point A is located at a height of B it (2.5 m) at zero airspeed,
- Point 8
 Point B is located at a height of 25 ft (9 m) for an birspeed of 40 knots
 (74 km/hr).

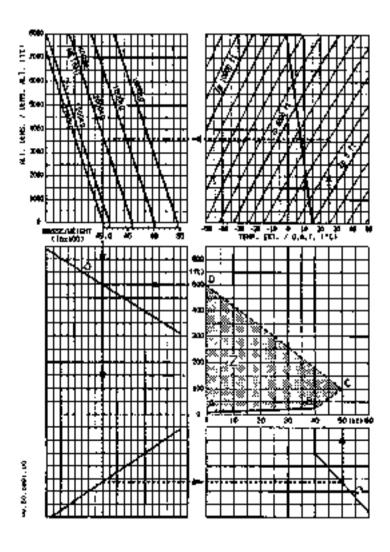
<u>Determining</u> Formes C and D

- Point C
 - Point C is defined by a
 - . a constant before of 100 ft (80 m)
 - a variable airspeed depending on the airtrude and on the aircraft weight as determined by line (C).
- Point D

Sprint It is defined by :

- . a constart zero afrspecd
- a variable height depending on the altitude and on the aircraft weight as determined by line (0).

<u>(3)</u>



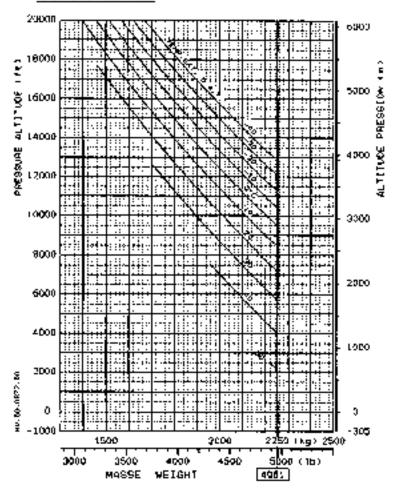
DGAC Approvaci

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5.:

69-17 Page 3

5 HOVER PERFORMANCE LIGIE.





- Height 5 ft - 3 6 m

- No P2 and bleed

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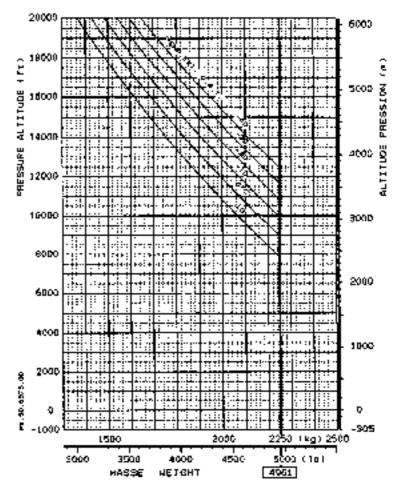
HOWER PERFORMANCE [. G. E.

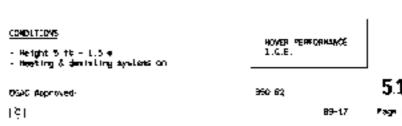
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29-17

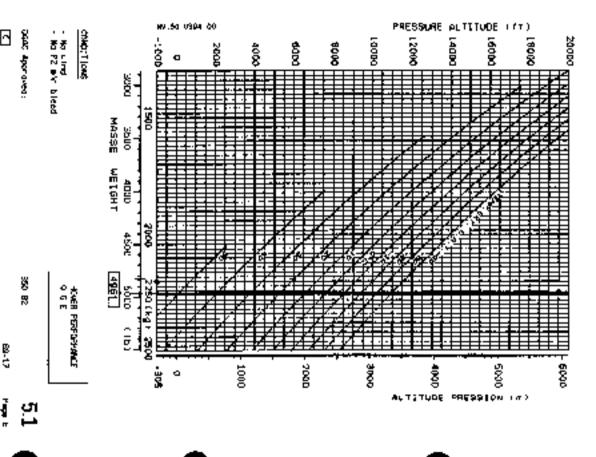
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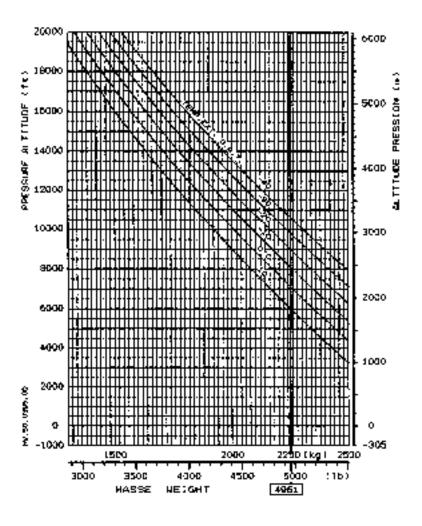
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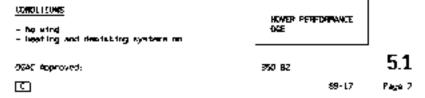




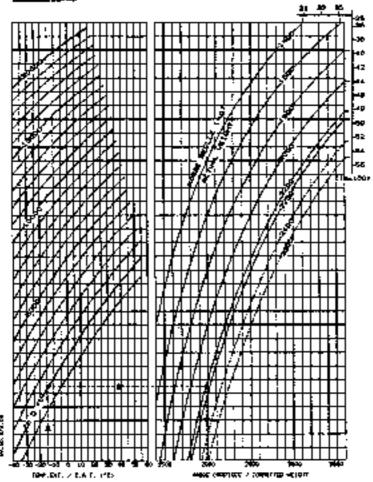
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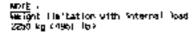






7 RATE OF CLUB





CORPECTED WEIGHT FOR DELIGIBLE (MCHING PATE-OF-CL) HIS (On facing page)

BOAC Approximate

3**\$**0 02

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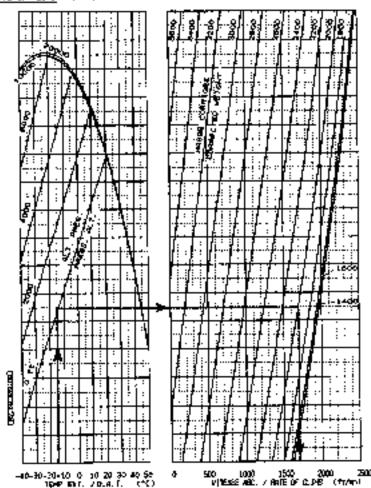
E)

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Page 8



MALE CH. COLUMB (COMP. 4)



COMPLICACE

- C.A.S. + 医 tt - 107 46/年

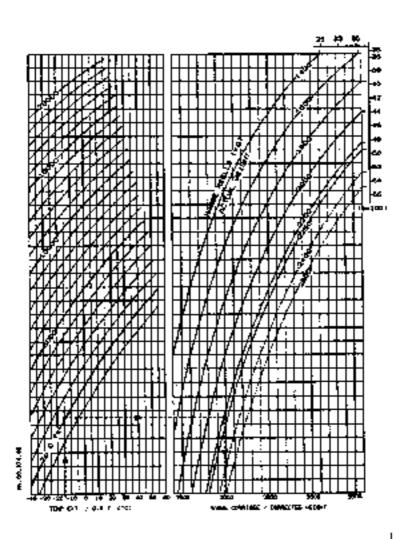
- No P2 win bleed

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SATE OF CLINE

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NOTE: Dergin Theitetion with internel loss : \$250 kg (406) ib: CORRECTED MEDICAL FOR DEFERMINING RATE-OF-CLERS Lan facing page)

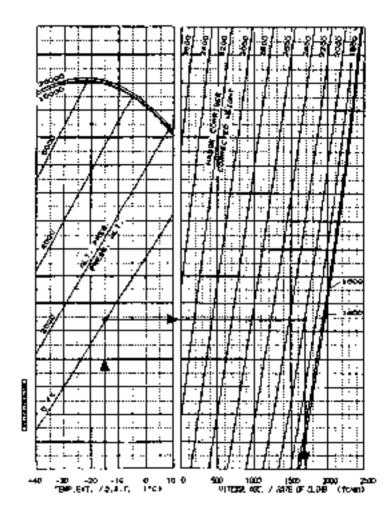
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BATE OF CLIMB (Control)



<u>CONDITIONS</u>

- C.A.Ş. - 55 hr - 102 km/hr

. MCP

- Heating and comisting dysters CM.

RATE OF CITIES

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Page 11

6 MOTSE LEVELS

The noise levels determined under the computions prescribed in Chapter B and Appendix 4 of Annex 16 of GACL, volume 1, are as follows :

Reference measurement configurations	Morse Nevels EPMdB	OAC1 max. coise levels EPHIS
Take off	3.88	99-5
Approach	21.4	94.5
OverF1 ight	87.6	92.5



FLIGHT MANUAL AS 350 B2 SUPPLEMENT

LZST OF SUPPLEMENTS

[MCOMPATIBULITY OF HITELIZATION

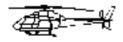
EFFECT ON PERFORMANCE DATA

DATEY CHECKS OF OPTIONAL INSTALLATIONS

IMPORTANT NOTE

The information contained himsin supplements or supplements the information given to the basic tight makes and/or applicable fight manual supplements. The effectivity of the supplement at the latest revision is specified or the Lipt of Officery Pages.

This appliament supports the helicopiess delivered by both AEROSPATIALE and EUROCOPIES FRANCE.
Revisions to this supplement see much by EUROCOPIES FRANCE valing the same procedures as AEROSPATIALE.



EUROCOPTER FRANCE Etablissement de Marignane Direction Tachnique Support 18725 Majophere Cage - France

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350 82

LUSTONEZATION :

A/C : A5 350 62 - 5/N :

LIST OF ADDITIONAL APPROVED PAGES

SECTION	PAGE	DATE CODE	5ECTION	PAGE	DATE COOK
п	HTS ATREN	AFT NOES WOT OFFE	I IR AMY PARTICULA	A PERIURES	
RI	EQUIRING 1	THE CUSTOMIZATION	OF THE FLIGHT	PANUAL ON	
¢.	REEN PAGE:	5			
			l		

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SUP.0.P1

4 B C D E F G H

90-15 Page 1

I LIST OF SUPPLEMENTS

Some supolements covering installations or procedures not used on this helicopter may be withdrawn from this manual. The complete list of supolements appears on this page.

Ho.	¢€SCR\$PT13H
0	OPERATIONAL AND OPTIONAL SUPPLEMENTS
1	RESESSED
2	R ESERVED
3	RESERVED
4	INSTRUCTIONS FOR OPERATION IN COLD WEATHER
ы	EXTERNAL LOND THAMSPORT "CARGO SWENG"
12	EXTERNAL LONG TRANSPORT "CARGO SLING"
13	SLIDING BOOKS
14	SAMD FILTER
15	REŞERVED
16	SFIM B5 T 31 3-AASS AUTOMATIC FILCT SYSTEM
17	SMERGENCY FLOATATION GEAR
	- · · · · · · · · · · · · · · · · · · ·

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350 B2 SL

LAST OF SUPPLEMENTS (cond' t)

18	AIR EQUIPMENT OF GREEZE 136 kg (300 lb) ELECTRIC MOIST
19	RESERVED
20	RESERVED
21	FORWARD TWO-PLACE SEAT
22	RESERVED
Z 3	FUEL HEATING SYSTEM
24	RESERVED
25	PROTECTION OF THE AIR INTAKE AGAINST INDUCTION OF SMOW
28	LONG AND SHORT FOOTSTEPS

SPECIAL SUPPLEMENTS

50	FERRY FLIGHT FUEL TANK	
\$6	ABSEILING INSTALLATION .	

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SUP.0.P2

99-45 vage 7

COMPOSITION DE CONDITIONAL VEVISIONS (RC)

The Supplements contain the following plink pages except those cancelled when the conditions are complied with.

CAUTEON

IF A MCRMAL REVISION (RM) MODIFIES THE PACE MIRMER FOR ANY IMPORMATION CONCERNED RELOW, THE READER WITH MAYE TO CHARGE THE NUMBER OF THE PINK PACE BY MANU, SO THAT THE IMPORMATION RENAINS IN ACCORDANCE WITH THE PARAGRAPH CONCERNED.

Sup.	Page Date	Applicable before condition is met :
		•

NOTE: The date code includes the last two digits of the year followed by the week runder in that year.

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COMPOSITION OF BUSH REVISIONS (RR)

The manual contains the following additional yet ow page(s):

	SUPPLEMENT	No RUR	PAGE	DATE CODE	SUPPLEMENT	No FIR	PAGE	DATE CODE
	SUPO		P4.1	99-37				
	5UP 11	2A	4	98-43				
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COMPOSITION OF RUSH REVISIONS (RE)

The Supplements concains the following additional yellow page(s) :

Ma.	SUP.	- PAGE	CCOE	₩a.	SUP.	- PAGE	COOE CATE
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LIST OF APPROVED EFFECTIVE PACES OUT CERTIFICATION

(1) Page Revision Code

- R : Revised, to be replaced - N : New, to be inserted

SIFPLENERT	PACE	j DATE	œ	SUPPLEMENT	PAGE	DATE	(1)
SUP 0 P1 SUP. 0 P2 SUP. 0	1 1 1 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93-09 90-15 92-40 99-45 90-15 99-45 99-37 92-40 99-37 90-37 90-37	Ř				

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5 99 37	
6 99-45 Bades :- 18	/=41
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	1000
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2 INCOMPATIBILITY OF UTTITIZATION BETWEEN OPTIONAL CONTEMENT LITEMS

The following list is non-exhaustive and covers only those DGAC - approved equipment items which are incompatible with one or more items.

<u>MOIL</u>: Incompatibility of installation between items is stated in the Master Servicing Recommendations (PRC).

Operation of the following

installations: ------ : Makes operation with the

Makes operation with the following equipment items impossible.

[TEM		SUPPL. No.	[
13	Umergency floatureon gear	17	32* - 6 6 p
17	Float type undercammiage	13	32 - 70
21	Ferry flight fuel tank	50	22 - 23 - 32 - 41 - 68 - 72
22	External load carrying installation "CARGE SQ ING"	12	21 - 25 - 32 - 44 - 45 - 66 R
23	External load carrying installation FCWKCO SMIMO	11	21 - 25 - 32 - 44 - 46 - 66 R
25	Air ambulance installation	-	22 - 23 - 32 - 41 - 72
32	Electric horst	18	157- 17 - 21 - 22 - 23 - 25 - 41 - 44 - 46 - 56 - 8
43	Crop spraying installation	51	2L - 25 - 32 - 44 -45
44	Forward two-place seat	21	22 - 23 - 32 - 41- 77
46	Blind flying screens	٠.	22 - 23 - 32 - 42- 72
66	abseiling installation	56	15 - 22 - 23 - 32 R
68	TAP kL(-	21
70	T 3] Automatic philos system	16	17
72	Warer homber	57	21 - 21 - 44 - 46

^{*} Koistang remains possible when the finals are folded.

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SUP.0

3 ENFLUENCE OF OPTIONAL EQUIPMENT TITMS ON PERFORMANCE CLATA

Where several optional equipment items are used stanituaneously, the basic performance data must be reduced by the value corresponding to the antibuouse of each decisional item.



3.1 REGULATORY PERFORMANCE DATA

- Take-off weights

When the installation of an optional equipment item modifies the takeuff weights specified in the basic Flight Manual, the take-uff weights are indicated to new charts.

Races of climb

When the rates of climb are modified, the relevant Supplement either provides a new chart or prescribes a reduction with respect to the basic performance.

3.3 ADDITIONAL PEAFORMANCE DATA

- The reduced performance data are given in Section 10.



4 DAILY OPERATING CHECKS FOR OPTIONAL EQUIPMENT

For each optional equipment item installed on the helicopter, the daily check must include :

- 2 thack before the first flight of the day.
- a check after the last flight of the day.

These daily checks may be carried out by qualified eximtenance personnel or by a qualified pilot.

Any alteration or detailed inspection to determine serviceability as a result of these checks must be done under the supervision of a properly endorted Aimmreit Maintenance Engineer and duly entered in the Aimmret Log Hope.

These checks consist in performing a visual examination of each optional equipment item in order to rhork its general condition and security on the aircraft. In particular for :

- windslikeld widers.
- fire excinguisher.
- ski anscallation.
- air ambulance installation (stretcher).
- flares.
- cargo swing,
 - ferry tank,
- blade projection against same.
- Sand filter.

The optional equipment items which require specific checks are listed below

AUR EQUIPMENT OR BREEZE FLECTRIC MOTST INSTALLATION

The hoist must be checked by the hoist operator.

- Check that the hoisthing blocks and shap hooks function correctly.
- Perform a Moist functional check : unwind the cable over approximately 0.6 m (2 ft) and then reward it : check that the "Up" end of travel contact functions correctly
- Check to be performed during the ALF check nearest the 30-hour operating limit.

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USE TH COCO WEATHER :

Check before the first flight (BPF), refer to Section SUPPLEMENTS of this Manual,

CAUTION : DO NOT BRAIN MATER FROM FUEL SYSTEM AT TEMPERATURES EQUAL

TO OR LESS THAN MINUS 10'C.



ABCDEFGH

AIR EQUIPMENT HOIST Fitted with an end-of-travel witruswitch monitoring system :

Complete the check with the following :

- Smileh on the electric boast
- limeland the cable by approximately one to two meters.
- Wird the cable :
 - . As the Cable woods up, check that :
 - the CREEN lambe is LET.
 - the MED 11ght 16 EXTINGUISHED.
- On Completion of the horsting operation, maintain the "UP" order using the hoist operator's grip.
 - . During the "UP" order, check that .
 - the CAEEM light is EXTINGUISHED,
 - the REO Fight *s EXTINUISHED.

Waintain the "UP" order on the hoist operator's grip and press the test pushbottom :

- During the "UP" order, check than .
 - the GREEN Tight is EXTINGUISHED,
 - the RED light [CCCM]MATES.
- Check to be performed every 25 hoisting operations :
 - . Free rotation of the book.
 - . Condition of the cable.
 - . Queratium of the cable extraction agrhamism.
- Operations to be performed every 50 hoiseing operations :
 - . Grease the hoist brake assembly.
 - . Clean then grease the cable wheding screw.



EMERCEMEN FLOATATION GEAR INSTALLATION

Check before the first flaght

- Place the emergency floatation gear on low position, pins locked, safety pan in place.
- Check that the circuit breakers in the aft baggage compartment are engaged.

Check after the last flight

If the alectaft has flown at law altitude over the sea, wash the inflation cylinders and the cradic assemblies.

FLÜMTATION GEAR INSTALLATION

Check before the first flight

- Visually that the protective covering and that the floats are clean and free from tracs.
- Check that the pressure in each compartment is 0,300 to 0,450 bar.

Check after the last Flight

- After Alighting in smilty water, wash with soft water,
- After landing on a modify field, wash with soft water.

Park ing

Park in the shade, if possible, and protect the finate against the heat.

CROP SPRAYING INSTALLATION

This optional equipment requires the presence of qualified small to perform the daily operating checks.

EMGINE FIRE EXTINGUISHING SYSTEM

- Check that the pressure of the cylinders is correct,

CARCO SMING

 After the last filght, lightly grease (G354) the end of the load hook at the lock input.

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FLIGHT MANUAL AS 350 B2 SUPPLEMENT

INSTRUCTIONS FOR OPERATION IN LUTTH WHATHER

IMPORTANT NOTE

The information operating herein supplements or supersides the arbitration given in the basic region manual anglor explicable light mental supplements. The originary or the supplement at the light revision is specified on the List of Effective Pages.

This papphament supports the helisestele delinered by both ACROSPATIALE and BUMOCOPTER FRANCE.

Sensitions to the supportment are used by SUROCOPTER FRANCE using the same procedures as ARROSPATIALE.



BURGCOPIER FRANCE Eupleseners de Marignese Charles Technique Suppart 18726 Minigrana Came. Flanca

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NCD FIELD

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I CEMPRAL

This supplement details all the procedures to be followed when the birdraft is used in particular climatic conductors, such as cold weather and snow And craft servicing does not require any special tooks or systematic rapiacement.

2 GENERAL RECOMMENDATIONS

For mational operation of the algraft in cold meather and show, it is recommended to carry out the following basic operations

- . Remove the on smoor deposits from the whole of the workings, particularly at himges and movement transmitting items (main rotor, rotor mast, terl) drave and tail motor, flight controls, engine controls).
- When the Einchmit has been subjected to very low remperatures, it is recommended that.
 - , either regular ground ruws be carried out every two points for removestures of about -20°C and every hour for lower compensatures. or preheating of the engine, transmission assemblies and cabin be effected before take-off (althourgh the helicopter is capable of carrying out engine start up and rotor spinning At Temperatures down to -40°C).

Burang the prehearing apecation, carefully wipe out the deiding exter to avoid all water acception on the interaft and water re-iding 46 Suon 25 prehending is over, particularly on the AIR INTAGES and components located above the air incakes.

PRACTICAL ADVICERS

- For the premating and deleting operations, use appropriate heaters in good condition unby. Bo not refuel the aircraft while the reaters are tunctioning.
- During the preheating operation, do not leave the abscraft wowatched Keep an extinguisher available at wand.
- Avoid directing has air towards the following part of the difficals. tants and fuel, oil and hydraulic fluid lines.

3 LUBRICANTS TO BE USED FOR TRANSMISSION ASSEMBLIES

Below #25 °C, do not use AER 3545 (0 051) oil for transmission assemblies without invetal prescations.

the other pile authorized to Section LIMITATIONS of the basic Finghs Manual may be used down to -40 % without preheating.

Wait : 14 Should be recompared that when changing the oil, the system is first to be flushed up accordance with the recommendations in the maintenance publications;

Buring long periods in inequalities it is recommended that the battery be stored in a warm area.

This ground dower upon is not available, start-up may be reinized out using the arminate battery or two afforable batteries connected in parallel. The starting envelope is released to the importance and is indicated in the following chart.

COMPINE CO		AVEC BAT AVETAL 16			
TEMP (ST (FQ)	<u> </u>	<u> </u>	-35	-20'	-16"
ODWORDS AND BATTERNS PROCOS CHARGES	1 3471				3330
Existing START ON COLD, CHARGED ARTICON	; pu-		Ţ	2000	
DWIDE 137 (10-4/94)	·		00000	<u> </u>	35600000
EMBERNE STAPT ON MARNE 170° ET. CHARGED BATTERY	7 # D		 2 000000	******	

5 PREPARATION FOR FLIGHT

independently of the imaged loss prescribed in the basic Flight Marval.
serform the following operations and inspections:

Main rotor blades

Remove the blade socks, then remove amove if reed he and, if necessary remove los from blades using hot gir flow at a comperature not esconding 50 ().

Main rotor Nub and mast

Remove like From the swashplaces, the stissors, the terms controls and the recor head spring unitarity and the

Proper foliant

- Remove the 40r intake tower and the enhant mourie blank after removing your from the almorate surface.
- Remaye show and the prometion in the entirency of the air intake, on pither side of the screen and inside the engine are intake \$60 (1986) the air intake process if nackstaty).

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- It is 'mucrative that the extinciate be clean

Manually and vasually check for annual and the impaids the air antake duct up to the first scape of the compressor;

- In case of iding :
- . remove ice using a wooden on plantic scraper.
- carefully wise the surface using a cloth mineral with inspropyl alcool, inspect drains, unblanted scoppers, check for show and ice on year and static cores.

Tail motor

- Remove the blade yackets, then remove its from the TRH assembly (blades, proof cods...).
- Wantally rocate the table rotor so that the rules rotor performs I turn at least, then theck:
 - , the swashplace vocation (votor brake not biocked)
 - . the IIII rotation.
 - . the framewheel copration.

Structura

- Aerove the cabin cover gate the inspection is completed.
- Make sure that the windship-d wiper has not remained stuck on the campy

Fliaht cantrols . Emaine cantrols

- Before operating the controls, it is recommended to heat-wo the institute of A the cabin.
- Operate the controls progressively, then uperate the rotor brate controls, fuel flow control and collective pitch control axe. Chair complete travel.

It is recommended not to perform extensive times of the cyclic and tail rotor controls

Fuel, system blending

On not bleed the fuel system under a temperature equal to un lumbs than -10 'C where valve seals prove inefficient

6 STARTING

All the procedures given in this basic manual repair applicable.

SUP.4

7 AFTER STARTING

When nominal speed is repoted with the fire't flow control in the game, that they are that all warning, courton and advisory lights are off, that pressure is reading, are 0.K. lest the hydraulic accumulators with the collective laver passeured at full how putth. When control loads are felt, move the stick is a gray 3-4 up to evaluate the load. Then content the stick (no load) and restore pressure.

If operating loads are considered higher than at normal temperatures, were the cyclic stick 3 à ce toward (nose does) for 2 minutes to earn up the tyberical thrust bearings.

imme the year godals about 50% of their gracel range on either side of the wid postaron.

8 IN CASS OF ENGINE FAILURE

Following an engine tailure at Hight weight, the stabilized rotor speed may be below the audio marring threshold, the oilot can switch of the horn uning the relevant published.

3 CHECK AFTER LAST FLEGHT OF THE DAY

The operations described in the Basic Mornel are to be completed by the following actions :

- Observe the peneral recommendations mentioned above

- When the rotor stops rotating, place the cyclic plach stick close to the
 neutral position and the collective pittle lever setured at full low
 prich, with tail rotor blades in the Mortzontol cosition.
- Inspertion of the angles magnetic plugs should be performed within 30 pm after the notor has stagged rotating, in order to exact well damaging.

- Care must be 12%en mot to loave doors open.

- (myself the air intake cover and exhaust recalls Dlank.
 - Shen the girtraft is parked in an unshaltered airs it is recommended to apply anti-toing solerials and to every our the aircraft parking and experien.

MOTE : MUTTALCING MATERIALS

- Arti-fring floid = respropy) along as per AIR Mabb or delicing as per AIR 3565 (MIL-A-6051).
- Anci-10ing sealing coverand 6 437.
- Ant: -1c ing i (inpound E.57).
- Anti-raya Material S.P.R. C7
- Anti-ickop Material to be applied on blades: Kilfront AME or Billrost DF.

CAUTION - REFER TO GENERAL ENSTRUCTIONS FOR THE USE OF ANTI-COING MATERIALS.

- ANTI-ICING MATERIALS CAN DAMAGE THE HELICIPETS COMPONENTS.
- USE RECOMMENDED AND APPOYED ANTI ICING MATERIALS DRLY.

10 <u>EOLTPHENT ITENS</u>

A)1 the associate equipment items allow flying in cold meather conditions except schemical thrust usating b/H 70aa 33.633.309 which must not be used at compensatures below <25 °C.

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Page 4



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AS 350 B2 SUPPLEMENT

EXTERNAL LOAD TRANSPORT "CARGO SWING"

Per drawings : 350A 82,8014

1964 KJ. N935

IMPORTANT NOTE

The information contained between expolarments of supersectors the information given in the case, figure mercyal engine approach taget megapate page. The energy of the purpose and in the taget to expense of the case of the

This supplement suspens the Policopters delivered by both AEROSPATIALE and EUROCOPTER PRANCE.

Activitions to this supplement are made by EUROCOPTER FRANCE using the same procedures as AEROSPATIALE.

THIS SUPPLEMENT MUST BE INCLUDED IN THE PLIGHT MANUAL WHEN THE EQUIPMENT MENTIONED ABOVE IS INSTALLED ON THE AIMCHAFT.



EUROCOPTER FRANCE Electricament de Merignane Brieffron Fechanise Espacet 17725 Mangrane Gadan France

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LIST OF APPROVED EFFECTIVE PAGES 20T CERTIFICATION

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94-01 Page 8

1 CEMERAL

The "CARCA SMING" external light corrying installation is composed of 1.

A suspended pyramid "rame (3) designed to reduce swimping of the head, aquipped with a release amil (4). The release unit hook can be extend electrically in normal extension and necessically in emergency conditions.

4 control and indicating system, for the pilot, compressing :
 loss indicator (1), on the instrument panel, with a zero setting

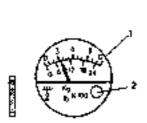
control (2);

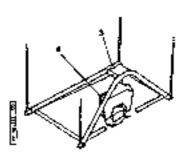
an electrical system successfuling bewer to the normal release circuit was a pushbutton, on the control console and a maisch on the pilot's cyclic stick or p :

. an "EMERGENCY MELEAGE" (jetticon) control Manuale mounted on the

understate of the collective lever.

The load indicator electrical climbilities protected by a fuse and the normal rebease would control directly two fuses.





2 LIMITATIONS

EXTENSION LOAD OFFRATIONS MUST BE IN ACCRECABLE WITH OPERATING REQULATIONS COVERNING THESE OPERATIONS

The Australians land down on the hasic Flight Manual recain applicable but are completed by the following limitations.

- Pas muss load

The maximum permissible slung load is 1260 kg (2557 lp).

 - Waxness gross weight with external load is that at which hower 0 G.E. can be held (See Section of the basic Flight Manual).

Marriage weight including external land : 2500 kg (5512 lb).

CAUTION . THE MAXIMUM PERMISSIBLE MERCHT MITHOUT EXTERNAL LOAD IS LIMITED AS SPECIMENTS LATTER LIMITATIONS SECTION OF THE MASIC FLIGHT MANUAL.

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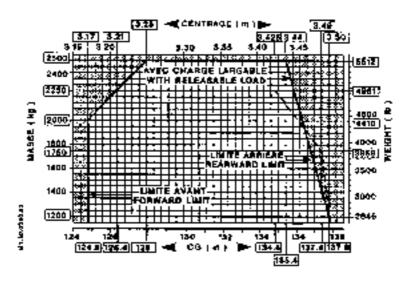
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Page 1

Langitudiral c.g. Neuts

Why theret below to define longituding, ϵ, g , limits with respect to weights.



<u>v. H.€.</u>

Absolute maximum permissible spred with a lust on the book is 80 kt (145 km/h - 92 MPH).

Parkinglan care must be exercised when bulky loads are being carried on the sline.

<u>MOTE</u> : The pilot is responsible for decembeing the limit speed according to the load and siling length.

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Instruction places

. An instruction place in the cockpic indicates :

<u>CARRYING OF COMMENSATIONS</u>
CLASS ON AMPROVED AIRCRAFT/LIGHT COMMENSATION B. WHEN EXTERNAL LOADS ARE CARRIED, NO MERSON WAY BE CAURTED UNLESS :

- HE IS A BUTCHT CREW MEMBER :
- HE IS A FEIGHT CREW MEMBER TRAINEE ; CR
- HE PERFORMS AN ESSENTIAL FUNCTION OF COMMECTION WITH THE EXTERNAL LOAD OPERATION.

EMPORT DE CHARGES EXTERNES

CLUSSE DE COMSTRUESORS CERUNESM-CHARGES MERKOUVER À AUCTRE PERSONNE ME PEUT ETRE TRANSPORTEE À MOINS DE .

- ETHE UNICES MEMBRES DE L'EQUIPALE - SULVAL UN COURS DE FORMATION EN TANT DAE MEMBRE D'TOUTPAIR.
- REMPLLK LINE FORCTION ESSENTIBLIE AYANT TRAIT A L'UTILISATION DU GRRAVRIM AVEC CHANGE EXTERCEURE.
- . A plate, visible to the ground operator and located hear to the book, fedicates the maximum siting load.

3 EMERGENCY PROCEDURES

The emergency procedures late down in the bakin (light Manual remain applicable but are completed by the following procedures

Enampe failure with external load

- If we engine failure chould occur in filight with an external load. establish autoprotectional flight and immediately release the load.

It engine faiture occurs whilst ground personnal are hoosens up the Foad. the pilot should make away to the right, applying collective pitch to hold the greenafe up Ground personnel are to be forewared that in the event of engine failure they are to move away to the left.

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Page 1

4 MORWAL PROCEDURES

The procedures laid down up the basic Finght Manual remain applicable but are completed by the following procedures

Cacring heavy loads is a delicage operation, due to the possible effects of a swenging load on the flight behaviour of the helicopter. Consequently, pilots are advised to train wise gradually increased sling loads before undertaking heavy load carrying preference.

CAUTION

IN MET MEATHER, THICK AUBBEK CLOVES SHOULD BE WORN BY THE OPERATOR HAMDLING THE MOCK AND LOUD, RELEASE THE CHANGE OF STATC ELECTROCHTY BY PLACING AN ELECTRICAL COMBUSTOR CABLE OR TUBE PERMENT INTO LOCKET AND THE CAMBO RELEASE INTO QUEEK).

- Check of the epstallation

On the ground, before carrying out a load transport operation .

- Theck that the hook opens correctly both an normal and (efficient control modes.
- . Zero the load indicator.
- In flight, press the "SLEMC" pushbutton in order to set the system in readiness for normal release of the load which will be accomplished by actuating the rocker-switch on the rivilla Mick control grip

- Teleoff

- . When the load is socured, apply collective pitch very swoothly, while maintaining the aircraft directly above the load. When the cables are caut, owell briefly before raising the load,
- . Life the load off the ground vertically, keeping a match on the load lodicator. then move off in a formace close.

- Mangein/res

a): control movements should be made very gently, with very gradual acceleration and deceleration, and only slightly eached turns.

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Paragraph 4 MORMAL PROCESSINE

In the supparagraph Check of the installation after :

"Check that the hook ... cuntral modes"

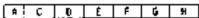
text added as follows :

. Check the free retaining latch and correct operation of its return spring.

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CGAC Approved:



- Landing

Establish meno granulational ground speed sufficiently brigh to ensure that the load is not dragged along the ground, then descend verticably until the load is seposited. The load indicator reading is zero.

- Bylykon

To release the lead, actuate the switch on the cyclic stick.

Check that the load is effectively released

If the load is not off, attuate the pettinon handle to re'egge it.

5 PERFORMUNCE

The Performance Data give* IA the basic Fiight Warual apply.

the performance curves for weighty in excess of J230 kg (499) lb) are plotted in dotted line on the performance charts contained in the PERFORMANCE Section of the basic Flight Manual.

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Page)



FLIGHT MANUAL AS 350 B2 SUPPLEMENT

EXTERMAL LOAD TRANSPORT "CARCO SITHS"

For drawings : 350A 82,8012

IMPORTANT NOTE

The information contained began supplements, or supersudes the information given or the paper tegin market and, or applicable light manual supplements. The programy of the supplement at the ballet revision is expected on the tist of Effective Pages.

This supplement supports the settopiers delivered by both ASROSPATILLE and SURGODPIER PRANCE.
Revisions to this supplement we made by SURGODPIER PRANCE using the same procedures as ASROSPATIBLE.

THIS BUPPLEMENT WASTIGE INCLUDED WITHE FLIGHT MANUAL WHIGH THIS EQUIPMENT MENTIONED ABOVE IS INSTALLED ON THIS AIMCRAFT



EUROGOPTER FRANCE Etabliacoment de Natignana Director Technique Support 13775 Margrana Gadas - Préféré

DCAC Approved:

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LIST OF APPROVED SESSION PAGES DOT CERTIFICATION

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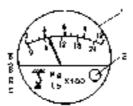
1 CEMERAL

The external lumb-carrying installation includes a

- 4 release unit featuring efectiveal control of hook release in wormal uperfetion and exchanical position in preromaty.
- uperation and mechanical opening in emergency.

 A control and indicating eyerem, for the print, comprising :
 - , load indicator (1). th a zero setting control (2).
- . an electrical system supplying power to the normal release circuit via a press-key on the control convile and a sentch on the prior's cyclic sciet only
- . as "EMPAGINCY RELEASE" (july isur) control handle mounted on the underside of the pilot's collective lever

The lead indicator electrical circuit is protected by a fuse and the normal volcane hous control circuit by two fuses.



ı

2 LINETATIONS

EXTERNAL LOAD OPERATIONS MUST BE IN ACCORDANCE WITH OPERATING REQUIREMENTS CONFIDENCE THESE OPERATIONS.

The limitarions hald down in the basic Flight Manual remain applicable but A_i are completed by the following limitations.

- Maximum Insil

The maximum permissible sling load is 750 tg (1850 %)

- Maximum agoss, weight with external load

Was ween parametric gross weight with an external toad is that at which hower d.G.E. can be held. (See PENFORMANCE Section of the basic Filters Manual).

Maximum weight including external load : 2500 kg (\$582 lb).

CAUTION : WALTHUM WEIGHT MITHOUT EXTERNAL LOAD ES LIMITED AS SPECIFICO EN THE LIMITATIONS SECTION OF THE MASIC FLIGHT MARHAL.

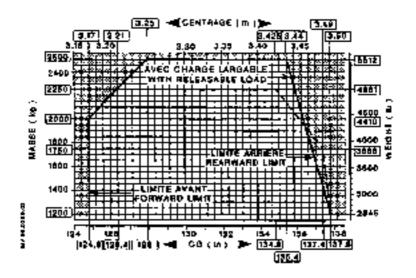
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- Longitudinal e.g. limits

Use graph below to define longitudinal c.g. limits with respect to weights.



- <u>v.h.E.</u>

Assolute maximum permissible speed when a load on the hook is 80 knots (92 MHz) (148 km/h).

Particular care must be exercised when bulky loads are being carried on the Sling.

<u>MOTE</u>: The pilot is responsible for determining the limit speed according to the load and sling length.

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- Jestevenier planes

. An inservetion plate in the cockpic indicates :

CARRYING OF EXTERNAL LOADS

CLASS OF APPROVED ARRENATY/LONG COMBINATION B. MEN EXTERNAL LOADS ARE CARRIED, NO PERSON MAY BE CARRIED GALCSS :

- HE 15 A FLIGHT COLW MEMBER :
- HE IS A FLIGHT CREW MEMBER TRAINEE : CA
- HE PERFORMS AN ESSENTIAL FUNCTION IN CONNECTION WITH THE EXTERNAL-LOAD OFFRATION.

<u>EMPORT DE CHANGES EXTERNES</u> CLASSE DE COMBENAISONS CIRÁVION-CHÁNCES APPROLVER E AUCUME PERSONNE ME INUT EEKE TRANSPORTES A MUSIKS DE :

- ETRE UN DES MEMBRES DE L'EDUTPAGE.
- Suitsaf un cours de Fordestion en Tant que bémare bréquipage.
- . BEMPUTA LHE FONCTION ESSENTIBLLE AVANT TRAIT A CHITILISATION OU GERAVION AVEC CHARGE EXTERIEURS.
- . A place, visible to the ground operator and located near to the hook, increases the maximum siling lead.

3 THE REPORT PROGEOUPLES

The exempenor procedures land down in the pasts Filipit Manual remain applicable but are completed by the following procedures

togine far une with enternal load

- If an engage failure should occur in flight with an external load. establish autorotational flight and immediately release the load
- If segme failure outs a whilst ground personnel are hooking up the lead. the print sizeful mave away to the right, applying collective patch to wold the a roratt up. Cround personnel are to be forevarmed that in the event of engine failure they are to move away to the left.

MOPUMAL PROCEDURES

The procedures land sown on the basic flight Manual remain applicable but are completed by the following procedures

Carrying heavy loads in a dellista operation, due to the possible effects of a swinging load on the flight behaviour of the helicapter. Unnanquently, pilots are advised to train with gradually increased sling loads before undertaking heavy 'oad carry'ng operations.

MARKANNE, : CH MELL MEALTHER, THECK MORRER GLOVES SHOULD BE WORK BY THE OPERATOR HARDLING THE MOCK AND YORK, RELEASE THE CHARGE OF STATIC FIGHTRECTTY BY PLACING AN ELECTRICAL CONCUCTOR CASES OR TUBE BETWEEN THE CARRUPT AND THE CARGO RELEASE HALL (Monk).

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SUP.12

(काराहोस:जादाम)

94-02

Page 1

- Oweck of the Installation

Un the ground, before carrying out a load transport operation : Check that the back opens correctly both in nursual and jettison control modes.

Zero two loas Indicator.

in flight, press the "StIMC" pushbutton in order to set the system in readaness for normal release of the load which will be accomp ished by actuaring the switch situated on the cyclic stick grip.

. Takeaft

. When the Moza is secured, apply collective prochivery smoothly, while againg sining the parecraft directly above the load. When the cables are tawt, exell briefly before raising the load. (16) the load off the ground vertically, beeping a match on the load indicator, ther move off to a Pormard alimb.

 Mangetories
 All control recomments second be made very general, with very gradual acceleration and deceleration, and only alightly banead turns.

- Landing

Establish zero crasslational ground speed sufficiently high to unions that the lead is not arapped along ground, then descend certically until the load is deposited. The load andicator reading is zero

 - delease To release the load, actuate the smitch on the Lyclic stick grip. Oreck that the load is effectively released

If the Your is not off, actuate the jettison handle to clear at-

5 PERFORMANCE

The Performance Cata given in the basic Flight Manual cemain applicable.

The performance curves for weights in excess of 4961 fb (2250 kg) are pinited in dotted into on the performance charts contained in the PERFORMANCE Section of the basis Floght Manual.



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FLIGHT MANUAL

AS 350 B2

Supplement

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IMPORTANT NOTE

The information contained tension complements or supersedes the information given in the basic Filight Manual and/or applicable Filight Manual augplements. The effective of the Supplement at the latest revision specified on S.P. (3.7) Fage 1



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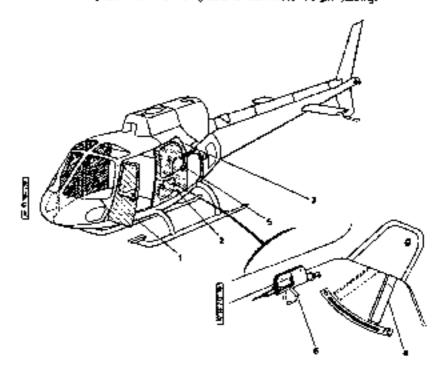
1 CENÇAN,

The electronic can be fitted with one or two alighing door installations. These installations are of sens daying and symmetrical.

Each inetwiletion rainly comprises :

- 3 small, jettleonæle faruers appr (1), providing eccess to the pilot's on explicit a sest.
- A large, sinding, room door (2), running on times guide raths.
 This down is fitted with :
 - . an open pesition cetch (3) (door held fully spen)
 - an inner control lover (4) commercial to the outer handle (5) for opening and planting the soon
 - . a Citaling system lasting lever (6).

These sliding death and be opened in flight by the argumenters for rescue of factoring operations, and or ground to facilitiese ineight (smalling.



DODE Approved. Men (12 SUF

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2 LLHETATIONS

2.5 <u>Aincraft Fitted with L.H. Silloling Door and two Standard Doors on R.H.</u>

CH SITUAGE DOOR	C.CSED	RENGVEO
alasın	y ve	PROHEBUTED
OPEN OR REMOVED	185 htt (250 km/mm/665 MPH) or VMEM	20 kt (180 <i>curtor/</i> 21 MPH)

Skilding door operation : - Opening : 110 kts - 204 My/hr - 127 MPH - C'carrig . 80 kts - 148 km/hr - 92 MPH

2.2 Ameriant nitted with R.H. Sinding Dear and two Standard Georg on L.H. STRE

R.H. 92.100% (000R 	(f o set)	OPEN CA ASMOVED
OLOSED .	YME	110 ktx 204 km/hr/127 MPH: or 116(*
REACHED	PROHEBUTED	70 al. (:90 km/m/85 MPh)

Sliding door operation : - Opening : 60 kts - 111 cm/sr - 69 MPH - Clearing : 60 kts - 111 cm/hr - 69 MPH

2.3 Amoraid inches with both L.H. and R.H. sillding score

R.F. SLIDING DOSA L.H. SLIDING DOSA	G*0æ0	OPEN OR REMOVED
ourseté	\#€	310 k x 204 km/lm/127 HPH! or 1995*
OPPEN OR PREMIONED	60 kt (111 low/hr/69 MPH)	180 km 204 km/hc/127 MPH3 or MNE®

SINDing door operation :

- Opening 60 -ts 111 km/hr 59 MPH Closing 60 ets 111 km/hr 59 MPH

MAY OTHER BOOK COMPOSITION IS PROMIBLIED.

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Page 2

3 EMEMBERGY PROCEDURES

If Nancemberry, the forward ducada Loan be jettisched.

Should the DOPS light 'Duningte the energeticy procedures laid down in the basic Flight Manual remain applicable. Paylour speed shall be reduced to 60 knots.

4 NOMAL PROCESURES

The procedures presentated in Section 4 of the Fitight Herwell apply equally to the real copter fifted with the winding door install at led ϕ).

In fitting with one on two eliteting doors open, there is a risk of the regreeof sought detaining determined at all should about 70 kmg/s (180 km/h-b) while, consequently they are to be nettined before 1 lying in Disse conditions.

It is also recommended that the security of documents and other objects carried in the cabin be ensured.

5 PERFORMANCE

Performance data as given in Section 5.1 of the fingle Manual applies equally to the helicopter fitted with elitting door installations.) So closed position.

SUP.13



FLIGHT MANUAL AS 350 B2 SUPPLEMENT

SAND FILTER

Optional : 00 1136

IMPORTANT NOTE

The atternation contented Pereir Supplements of Superisdes the information given in the basic flight menual analysis applicable light in actual application. The offscripty of the supplement at the lasest revision is appreciated on the Elst of Effective Pages.

This supplement supports the helicopters delivered by both ACROSPATIALE end EVACCOPTER FRANCE in made by SUROCOPTER FRANCE using the arms procedures as ACROSPATIALE.

THIS SUPPLEMENT MUST BE INCLUDED IN THE FLIGHT MANUAL WHEN THE EQUIPMENT MENTIONED ABOVE IS INSTALLED ON THE AIRCRAFT.



NUMOCOPTER FRANCE Bioblocoment de Mailgnere Oracton Tachnique Buppert - 18797 Mailgnese Cedex - France

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92-44

Page 1

AS 350 B2 SLIPPLEMENT 14

RE 1A

Subject : Additional protection of the air intake under severe weather conditions.

Either of the following optional installations is used :

- OF 1536 sand filter, or
- OP 2561 system.

Complete the title of the supplement as Follows :

- OP 1536 SAND FILTER
- . OP 2561 ATR INTAKE PROJECTION SYSTEM

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AR IA

Complete paragraph GENERAL as follows :

Thus inscalligation which does not use any P2 bleed over, is also designed to protect the air incake against any potential induction of snow on flaght, under heavy snow fall.

Protection of the air intake is also ensured by the optional system defined as CP 7561 (filter installed on the air intake, not requiring P2 air Supply). The performance data are those land down for the "Sand Filter Not Operating Configuration.

The Sand filtering function is not ensured by the DP 2562 system.

BCAC Approved:

M M

Complete paragraph NORMAL PROCEDURES as follows :

Pro-flight (hecks

Under severe weather conditions :

- Open the engine cowling.
- Check for snow, ice or water in the air intake, and particularly under the filter

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RRIM

Subject : Flight under failling some

Complete paragraph a THITATIONS as follows :

The restrictions to the flight envelope on case of falling snow, given an the basic Flight Manual, are cancelled.

ø

This ingualistic even when it does not use any P) bleed air, is also designed to protect the air intake against any potential induction of snow in tilpht, in falling snow.

The system makely consists of the following :

- 2 filter fitted on the engine air intaks, below the ace protection screen.
- a PI air pressure supply system.
- an electric control and monitoring system.

During angline operation, the emplient air flows through separator tubes which constitute the filter. The filtered air is forced towards the engine air intake. The sand is eventwised by scarrings takes ventriated by P2 mis.

The placerical circuit supplies an electric valve via the "SAMD FILT" pushbutton. Opening and closing of the PZ air pressure circuit is controlled by the electric valve. A blue SAMD F. light comes on the Andicate that the electric valve is fully open. The electrical circuit is protected by the SAMD FILE. fuse on the kide panel.

2 [[[0]]] 411785

The limitations laid down to the basic flight wanted command applicable with the exception of the following specific fletrations :

the fitting envalups restrictions in case of falling snow are concelled. - Sand Filter operating.

- , the besting and demissing systems must be switched off,
 - . comply aten the following Mg limits :

b.s.t. CO	L(MTA THAN + S⁻C	BETWEEN + 5°C AND + 35°C	HECHER THAN + 35°C
Mg. diff. at . MAE 1/0 PMR	0	- 0.3	- 1
hg. diff at max, (Quithubus PaR	. 3.5	- 4	- 4,5

3 EMERCENCY PROCEDURES

All the emergency procedures specified in the basic Floght Manual remain applicable.

If the P2 21, value fauls to open (light remains off), avoid Flying the helicopter in sand-laden atmosphere to prevent promature damage to the engine.

Should the valve fail to close (light remains on), flight can be continued without advance Consequence.

4 HORNAL PROCEDURES

The normal procedures laid down to the basic of ight Manual remain applicable but are completed by the following procedures.

EXTERNAL CHECKS	R
- Engline Air intake.	R
 Rémine ice or sice from the 21r intake grie. Open the engine cowling Check for snow, ice un mater to the gir locake, and particularly uniter the filter. 	R A R
CHECKS BEFORE STARTING THE ENGINE	R
- Test the andicator Wight Mccated on the instrument panel.	q

ENCINE POWER CHECK

When Checking the engine, make ture that the eard filter pushburgon is sqt to "off".

When the same filter is fitted, use the power assurance check chart on the next cage (Figure 1).

The procedures for checks on ground and in flight, given in Section 4. remain applicable.

PSYCHO IM SAHO-LADEN ATMOSPISCRE

- Switch off the heating and de-missing systems.
- Depress the SAND FILTER pushhutton
- Make sure the SAMD FILTER ! Fahe illuminates.

<u>MOTE</u>: Operating the sand filter (aunes to semberature to rise by more: meterly IS'C.

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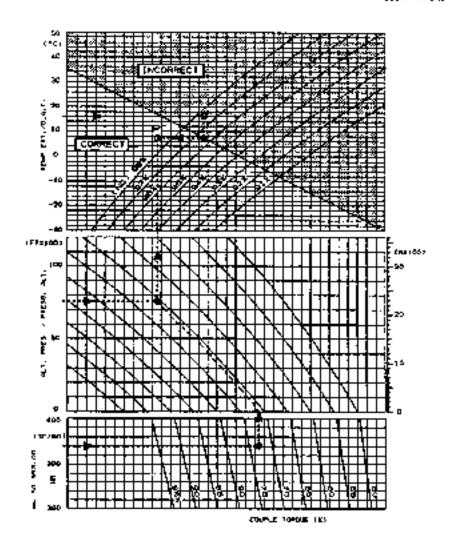


Figure 2 : Power Assurance Check - Sand Filter Hot Operating

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S FERFORMANCE

5.1 Regulatory Performance Date

The performance data hand down in the maste Flight Manual Section 5.1 remain applicable with the e-ception of the following data :

5.1.1 Sand Eilter out Operating

FLICHT CONFIGURATION	HEATING AN DEMISTING SYSTEMS OFF	MEATING AND/OR DENISTING SYSTEMS OPERATING
I.G.E haver	Figure 2	(Fig.2) romus 60 kg (#30 15)
O.G.F haver	Figure 3	(Fig.3) whomas 60 kg
Rate of chlos	Figure 5	(130 16) (Fig. 5)

KRREBREBRAFAR

5.1.2 Sand Filter Operating

The performance data with the sand filter operating are to be computed from frequence $Z_1/3$, S and allow for the reductions indicated in the table below:

	1	_	
FLIGHT	OH.	ITS3DE ASM. TEMPERATURE	CO
(QHF3GURAT3GH	LOWER THAN + S'C	RETABLE + S'C AND + 35°C	+ 35°C HIGHER THAM
JCE hover	Figure Z	(fig.21 mires 40±g (9016)	(fig 2) minus 100kg (2201b)
OGE hover	'	(f1g.3) minus 40kg (90%)	(fig.1) ennes 100kg (22016)
Aute of class	: Figure 5	(Fig.1) minut /UTC/mn	(fig.5) winus 180ft/wn

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M. LA

Paragraph 5.1.1 vs to be undified as follows :

the "Sand Felter Not Operating" performance data are given in the table below :

FLIGHT CONFTQUENTION	HEATZMG AN DEMISTEMS SYSTEMS OFF	MEATING AND/OR BENISTING SYSTEMS OPERATING
1.G.E. hover	figure 2	(Fig.2) minus 50 kg (130 lb)
O.C.E. haver	Figure 3	(£1g.3) extras 60 kg (130 16)
Pate-of-chimb	Figure 5	(fig.3)

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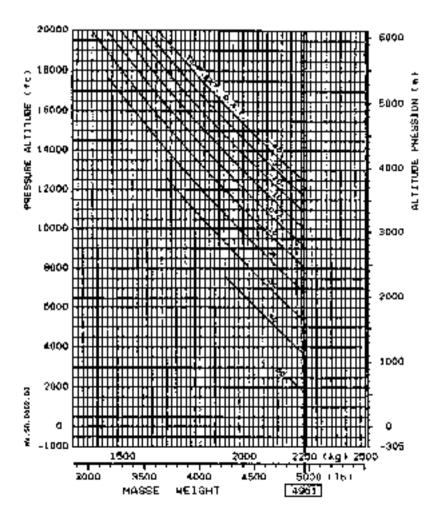


figure ?

COMPLIFE CHS

- He1g⊁t : 5 ft 1.5 m
- Sand falter ont operating
- Meaning and deplaying systems off

EGE HOVER PERFORMANCE

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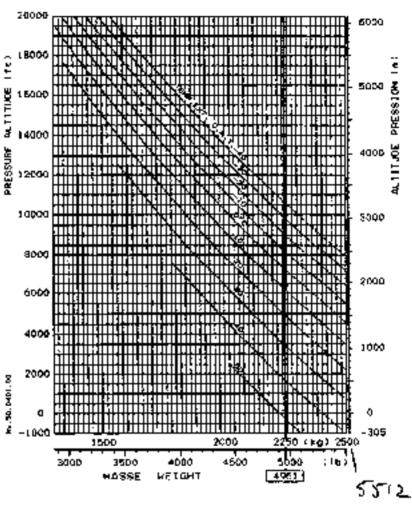


Figure 3

COMPLETIONS

- No wind
- Hearing and demisting systems off
- Sand filter not operating

OCE HOVER PERFORMANCE

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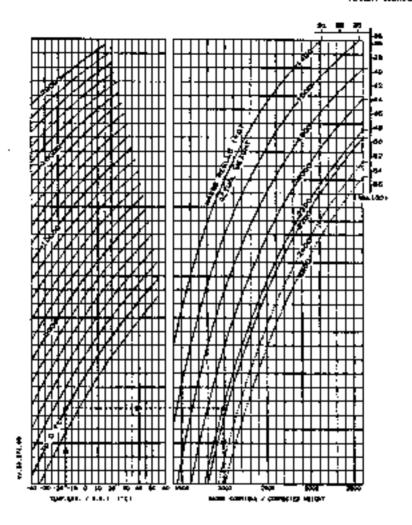


Figure 4

MOTE:
Weight immetation with internal load:
2230 kg (4901 %)

(CRACCION WEIGHT TO DETERMENE RATES OF CLIME (CR FAGURE OPPOSITE)

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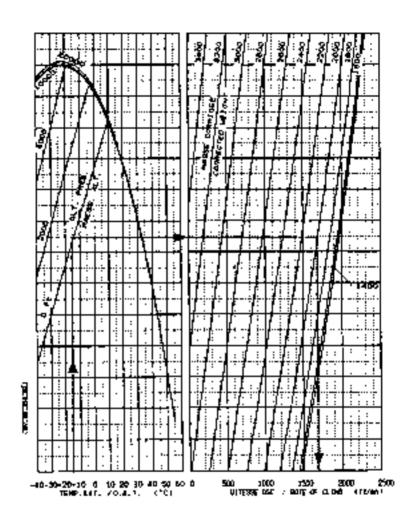


Figure 5

CONDITIONS

- Max. continuous power rating 1A5 55 kt 182 km/hr
- 5and filter not operating

RATE OF CLIME |

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SFIM BY T 31 AUTUMATUS PULDS

THREE-AXIS

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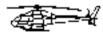
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The information combined basic supplements or supersides the information given in the basic flight manuse and/or applicable flight manuse sygptements. The affectivity of the supplement of the basic levision is specified on the Lyr of Effective Fagus.

This supplement supports the helicopiers defined by both ATROSPATIALE and EUROCOPIER FRANCE.

Revisions to this supplement are used by EUROCOPIER PRANCE using the same proceedings as AEROSPATIALE.

THIS SUPPLEMENT MUST BE DICLUTED IN THE FLIGHT MANUAL WHEN THE COMPMENT MEATICNED ABOVE IS INSTALLED ON THE MACRAFT.



EUROGOPTER PRANCE Grandement de Maignane Blanten lechnique Suspan 19728 Mangnarie Gades - France

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1 GEMESAL

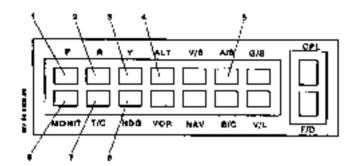
The three-ware (picch, roll, year) supeptipt (AP) is incended to hold the athlibudes and heading selected by the plint. Addictional modes can provide

- alrspeed hold,
- altitude hold,
- acquire and hold of leading sqlected on the HSI.

The AP unit cainly consists of it

- A control panel on the consule.
- A computer undermosth the cabin floor on copilot's aids that receives data from the following deceases:
 - . wentical gyro,
 - . morizontal Eleuation Indikator (IBI),
 - . дуго-гларичя,
 - . And data sensor,
 - concret gedal displacement detector .
 - . lazeral acceleramener .
- An Artificial load release system.
- A control for adjustment of the midder pedals friction.
- Three control ectuators (one per axis). fer trim ectuators (on pitch and roll axes).
- Times galvanometers (pitch, roll, yew).
 Times fortengaged charmely indicating lights (P, 4 and Y).
- An AP coupler monitoring panel.
- A fallura monitoring unit.
 - This module monitors the operation of the pitth and roll chamels at different levels by comparing the data debivered from the instrument panel vertical gyro and gyro horizon :
 - Acticude seasors
 - . Command inputs generating system.
 - . Control acquators.
 - In case of abnormal operation, this unit warns the prior and cuts sufthe defective channel. It starts operating automatically as the AP pitch and coll channels are engaged.

1.1 Automilet agetrol panet (figure 2)



liés Po,	Description = Function		
1	Pitch channel engage pushbarton		
ì	Roll charge engage pushbucco+		
}	Tay Channel andage pushbutton		
ţ	Aleksude hold pushbotton		
3	Airspead huid pushbotton		
6	Selected heading hold pushbuttan		
*	Coordinated turn soce pushbutgon		
•	Patiers monitoring unit and AP disensage pushbucton		

Only the functions of the pushbattons leantified on the figure can be ease. When present in these pushbattons () humanute to lodicate that their functions are effective. This causes the green CM marking to appear.

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93-41 Page 2

1.2 Instrument Panel Colvennmenges (Ffpane 2)

The galvantmeters indicate the position of the series-munish agrances, with respect to their studie position; must be settator is centered. The pointer is in the middle. In pitch and roll, the actuators are recentered automaturally.

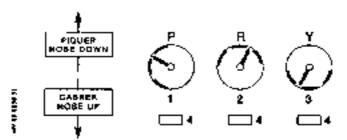


Figure 2

Item No.	Description	Direction of Indication
1	P (pisch) galvangmeter	Indicates a nose-down order given by the awarding
' *	M (roll) gwlvanometer	Indicates a "pli-co-right areer given by the autopilat
1	Y (yaw) çalvanometer	Indicates a yaw-to-left order goven by the autociloa
	Amber knokepyor 'ighes	When on, the associated channel(s) is (are) not engaged

MOTE: The year galvanometer pointer is recentered by morning the rudder pedals in the direction shown by the polynomia.

1.3 Ovelie Strick Grip Controls

The autopilot controls are located on pilotis and completes cyclic stick gross (of dual controls installed) .

- A four-way heep-from button. Allness the policy to operate the start and change the aircraft actiones
- A trip release aushbytton. Morentarily releases aloth and roll channel archificial feel loads.
- A dushbutton, Disergages AP system.

1.4 Vertical Owno Valid Casa Lapht (If Installed)

As while GYRO light on the failure monitoring panel illuminates to hadiques that the vertical gard valid data signal is lost.

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5 AUTOPILOT COMPACE PASSAUTTOMS (Pigure 3)

- On the instrument panel or on the compole,

POTOM TREM ACTUATOR

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г	
ı	ROLL
ı	
i	TRIM
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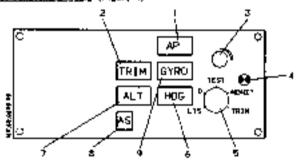
I	πεч ≝1.	Ouscription - Bungtion			
	1	Fifth trim actuator release			
١	\$	Moll trim acquator release			
	7	Personert release of antifectal leads to Pitch and Moll.			

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,	79 PELE	IM ASE

- On the console

An GR/QFF pushbutton located on the console controls the status immerter (115-V and 76-V, 400 Hz, $\alpha.6$, point, generating system).

6 AUTOPINUT MONITORING CAMEL (Figure 4)



TEM.	
Ha.	Opportugitar - Fynction
ונו	4.P. maining Fight (blinking, rec)
2	THIM Coution light (blinking, ambur)
3	Light dime.
141	TEST function indefentor light
5	TEST selector switch
6	Selected leading hold ente engagement advisory (1966 (green)
1 7 1	Altitude hold mode engagement advasory light (green)
1 a 1	Africated hold made empagement admissry light (green)
انجا	GIRO warming aligns (Amber)

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7 LIMITATIONS

Apart from see specific limitations given below, will the litering your laid down in Section 2 remain applicable :

- When the warpraft is on the ground, the AP must be disargated exempt when checks are to be performed.
- On not engage the AP before take off if this test is not satisfactory.
 If height to less than 400 dt (120 d), the pliot must keep his hand. on the cyclic stack.
- . Michael gress melobit with AP in quaration : 1:00 mg.

3 EMERGENCY PROCECURES

4)] the rearrance proceedings are a field in Section 1 of the beautiful damage. remain applicable, together with the fulluming additional procedures :

7 i General

If Jacks on Sodden movements independent of air nurbulence and fells during filight with actipitut engaged, this day be caused by the autopilot. Consequently divengage for autopilot :

- If the amount, drampopers after disorgagement, re engage each channel in turn until full-re is identified. Retail thannels that occurre. property
- If the magaly persists the AP is not at fault, Re-engage the autooffor if regulrer.

3.7 Failure of hydraulic socker

- Comply with procedure specified in Section 3.
- Disensage AP

3.3 Fablure of the ventical two or own herizon

INDICATION	SYMPTOM	PELOTI-S ACTION
- AP light blinks feet 10 set (Fig. 1). - Open light 1:1, ministes or give havious flep comes into view. P. R. mover pushbutton lights on aP control same po out (Fig. 1). P. and A. lights (bride galvanismatte a). 1:11uminate (Fig. 1). Octavi 4).		- Egraval control by the palot. The year twanted weaking operating of the RPG. ACT and A/A modes are imperative. - Concurre first:

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3.4 failure of the Devo-compage

1001CATTON	SMIPTON	PIRITY'S ACTION
- AP light blinks for 10 seconds (fly. 4).	 The year channel discusses automatic cally. Y and T/C push-button (3.7 Fig. 1) Tight poer nut and Y indicate light (3.FEg. 2) - Turningtes. 	- Two Control by the place (Year charme) and heading hold are inconerative)
Fallere Flag apprece to MSI (Mb2).	- The inselected Meadings dunction disengages automathically, HDG cushbucton Tight (Fig. C) and HDG indicaton Tight (Fig.4) as out.	- Continum flight.

3.5 Section Cablers of the ayeo-pilot

INDICATION	\$WMPTQM	PILOT'S ACTION
- AP light bilmy for 10 seconds (Fig. 4)	- Mandaver to the defec- tive as's.	 Maintal Control By the pulot (power reduction may be required to domply with the limitations).
- Automatic disease- greent of faulty _ Channel		- Continue filight.

3.4 TAJM aphfungston

· · · · · · · · · · · · · · · · · · ·							
1MD1CA710H	S199TON	PRIOT'S ACTION					
- TRIM light Hilums- nated for 10 sec. (ing. 4) and defec- tive trim disengages estomatically.	- Wefure operation of the safety System (automatic disengagement), the stick tends to make in the cirection of the failure - The pilot can no longer	- Marval control by the pilot. - Marval artificial loads in irra title. - Disempage the faulty tria function. Continue tight. The autopilot continues to operate without the faulty arts being triamed - Marval galanometer					
	om-le trin.	position back to the centre waing the stick refease button					

R

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1.7 Blockage of arctificial load system

IMDICATION	Sampt des	PILOT'S ACTION		
	- Placeage of cyclic sciet	Referse the scient criminals: The blockage dayan-paura: disengage the strick train release pushbutton and quacture flight. The blockage persists: break methorical sheer pin of load compensator thairs by applying a 10 day load approximation cyclic iside.		

3.4 A.C. power supply failure

INDICATION	SYMPTOM	PELOTIS ACTION
- AP light blinks for 10 sec. (fig. 4).	- AP disengages surcesti- cally	- Check that ALTEL pushbutton is pressed in.
		- Continue flight without autopalet.

3.9 Total power supply failure

In the event of a total power supply farlors the supplied disengages subcontically and cannot be re-engaged.

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4 MORNAL PROCESSINGS

Apart from the specific procedures given below, the normal procedures laid
down in the bosic Flight Waruel (enail) applicable;

<u>MOTE</u>: In case the copilot's cycling same has been removed sheck for presence of threaded whent plug on relevant connector (28-ytt) power supply to supplying).

4.1 Crecks before tota-off

- Pushbateons :
 - . TRIM MELEASE (ARTIFICIAL LOADS)
 - . ФЕТСИ ТЕТВ АСТДИТОЯ
 - . ACLL TAIN ACTIVATION
- Eyçlik etick
- Rudder pedals
- Static Inventor
- Horizonial Siquation Indicator
- Pilnt: a and empiler a syre hertzers | Flag not visible
- Released
- . - Frictiun unlightened
- Principles crafticened
- Pushkurton pressed In
- HDC flag not visible.

4.1.1 Autopilat 1ess

- Mait delector switch set to LTS (Detail \$ on Figure 4).
- Test selector switch set to 0.
 - . Plach, roll and year (heanely engaged.
 - Four-way been thin betton : successively actuate in each circuition.
 - . Saltch off mutopling through AP release pushbucton on poloc's cyclic stick.
 Then repeat this stea through same pushbucton on copilatia cyclic saick (If fitted) after re-ampaing the three aurupile?

charne la .

- Lights on coerrol panel (Fig. 1) Illuminate.
- Lights on # monitoring panel (Fig. 4) illuminate (2 1/7 second time delay).
- Test function 1kght (*)
 (Fkpure *) Illimbioates.
- Test function light (4)
- (figure 4) extinguishes.
 P. R. Y . WOHIT payshbucton
 lights >lluminate (Feg. 1).
- Lights befor galvanometers
- dulingeish (Untail 4, Fig. 2).
 Therk cyrine stock and relevant galvanometer pointer
- agve to she right direction.
 Lights below galvanometers illuminate.
- 4F 15gAt (Fig.5) blinks for 10 seconds.
- Lights on control pane) (Fig. 1) wathigolah.

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#.1.2 Failure monitoring unit test

- Pitch channel engaged
- Acquare four-way button to offset cyclic spick in pigch direction.
- Test selector switch set to MOMET.
 (Fig. 4).
- Picch pushbutton light filminates (Fig. 1).
- Will pushbucton 14pht illuminates (Fig. L).
- Cyclic strick moves in the shower direction.
- Gytik, athuk atopa moving.
 Galupnometer re-centers (114ht pm).
- AP Agraing Tight flashes (612, 4).
- 2/kö marning light lituminates (file, f).
- (fig. 1).
 maxT pusebuctom light
 flushes (fig. 1).
- Pirch gusthutter light exting, ester (Fig. 1).
- Roll pushbutesn (light Diluminates (Fig. 1).
- WOMIN postbuffon light Illuminates (Fig. 1).

Save procedure as the pirch channel.

6.1.1 Patch frim twat

- Pitch channe) argaged.

- Ngil chymnel enywged.

- Teg: selector payoch ant to FREM (Decat: on Fig. 4).

- leas adjector smitch set to 0

- Test selector switch set to D.
- Disenyage pitch charnes.

- Helevant pushbettom light (Fig. 1) illuminates : FA appoars
- TRIW caucino light (Fig. 4) illuminates with 2-second time delay, thin alternate anse-up displacement of cyclic stick with TAIM light (Fig. 4) plinking.
- P pyshbutton light (Fig. 1) garinguistas.

4.1.4 Roll trim rest

- Roll channel engaged
- Test selector switch set to TREM.
- Tast selector select set to 0.
- Disengage roll channel

 Same as pitch trim test above with Altermate displacement of cralic stlew to the left

(AUTION : 00 NOT OPERATE THE MITOPILOT IF THE TAIN LEGIT COES MOT ELEMENATE OF REMAINS ON STEADY CHAINS THE YEST.

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4.7 Automilian enganement before take-off

- Engage the three autopolor channels | Check that the channels are
- Total metacron awarch set to 0.
 (Fag. 4).
- MANNERS: DO MOT ALLOW THE ALACAARS TO REMAIN ON THE CROWN WITH THE AP ENGAGED AS THE TRIM ACTUATORS MAY IMMAIN, THESE CAUSING THE STICK TO MOVE ACADING THE STICK TO MOVE ACADING THE STOP.
- Check that the channels are anyoged. P. R. Y., MONIT overtureon lights literature.
 IN is visible (Fig. 1).
- Test light sayinguishes (sage) 4, Fig. 4).

4.3 Characters the autopting to flight

4.3.1 Busic modes (P. R. Y. T/C)

4.1.1.1 Pitch and rol'

- Hards off the stick.
- Artaficial loady released
- Degranding the artificial loads
- Through the 4-way button
- Autopilos Molds acciendes.
- · Autobilot operates as a damper.
- TriB actuators are inhibited.
 The actuators counteract atching the Highs of their authority.
- Deviation on the direction of operation of the attitude references.

4.3.1.2 Yam

- Feet off the oedals

40TE 1: Collective pitch/yem
coupling is effected when some fraction is applied to the pecals. By is therefore recommended to apply friction.

#DT(2): When the RM modeler pedal is mean the step (e.g. high [H] cross wind) moving the optiestive postsh lever fully upward requires a greater affort than the upwal value due to sporing ros.

- (frame) holds ipresent heading within the limits of its authority. Oberating the pedals course the heading reference to be altabase. The pilot much bring the gircraft to the desired heading (angular speed less than 1.5% sec.) then resove his fest from pedals so that the parchanel can hold the men heading.

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4 3 1.9 Coordinates turns (T/C)

When airspeed is above 50 kg (92 km/h - 52 mph), the polar can eiter heading by flying the aircraft to a bank argle above 7°. The vgw (banke) then coordinates the turn.

A.B.2 Addictoral modes (ADC, ALV, A/5)

4.3.3.1 Selected heading (NBG)

This made may be operated when the strapped is above $50~\mathrm{k}$ E (92 keVh - 57 mph)

when this mode is engaged, the autophiot captures and hulds the heading selected on the MS2 who the rull channel (the rull attitude reference is the mil). The year channel provides coordination.

4.3.2.2 Altitude (ALT)

Ship mode may be operated when the airspeed is above 60 knows (112 km/h - 60 mph).

When this mode is engaged, the autopilot molds the engagement altitude through the purch channel

<u>MPTE</u>: the is recommended to engage this mode only when worthquak speed is lower than 1001 ft/mlo.

4.3.2.3 Afrispeed (A/S)

This mode may be operated when the dispect is above 50 kt (P\$ both = 57 woh).

When this mode is engaged, the automilat holds the engagement airspeed through the pitch channel.

4.4 After lending

Obsergage the Autopilot wha the cyclic stick pushbytten.

5 PERFORMANCE

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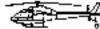
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IMPORTANT HOTE

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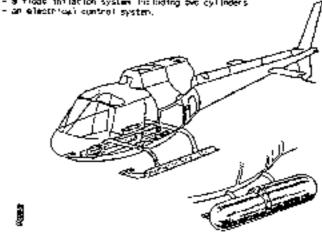
L CEMERAL

The wavergroup "loststion goar allows the helicoptor to alight on water. If necessary,

The limits lettion is designed to all the bre associate to land on an alicebrito on prepared hand ground with Plants inninged

The exergency if fortuition geen comprises :

- two skild assemblies
- two penaltial filmet accombilies, one on either ande of the helicoplan
- a float initiation system the locking overcyl indens



2 LLM374100MS

All limitations specified in the basic feature remain applicable. independently of the full lowing .

- Floats stoked, system not arrea. no special 1 militations
- Floats stowed, system arred on *Toatet lim year in*fetad. maximum (.4.5. In powered flight 135 kt (250 km/h)
 - . maximum [, L S | at less than 40 X torque . 100 kt (185 kw/N)
- Maximum altitude for float inflation . 6600 ft (2000 g)
- When flying over water at an altitude below 400 ft 1:22 m3 the
- floatstion gear system must be extend.

 Hinfoun wingst , when the 0.6 f is lover than 0.5, the virtuos weight must center greater than 5480 kg (3263 16), in order to possibly with the ein, rotor claim, upon engine failure.

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SUP.17

3 EMERCENC: MUCEDURES

In the event of engine fetture or other mand for distribute, check notes ν,μ,m are apply the following procedure :

- Arm the energency "loatation gear fining system
- Fire the float Syflation centriogen (Recommended evaluation fining speed 80 kg - 148 pm/n)
- Somplete the autorotation procedure or described in the basic Mahual.
 Allight trumbules on to the sea; award remains of the nose of the floats on touch-down.
 - <u>light()</u> . Implies than of everyoney Floetation goar reduces the rotor speed by 20 rpm in autorobation gaugest.
 - IMPORTANT MOST WICK THE HELTCOPTER IS AFFORD, THE FORMARD BOORS MUST BE OPENED BY ACTUATING THE DETTINGS CONTROL

4 HORMAL PROCEDURES

harmal procedures specified in the basic Manual number $\exp(i\cos 2\theta)$ independently of the following :

External chacks :

- If light covere properly level
- . Correct by Mider pressure

Lisit pressure values are grown by the following table .

TEAPERATURE C'	- 40	- 30	- 20	- 10		10	90	30	40	90
Familiane (1 Decree	- 40	- 22	- 6 j	34		50	20	85	104	182
PRESSION HAXI BARS	256	265	277	297	290	30%	927.	332	344	356
MAX PRESSURE PS1	3713	3958	401.8	4163	4322	#448,2	46700	461 3	4 05 0	5163
PRESSION MINL BARS	238	246	25 6	268	270	290	301	812	324	335
MIN PREUSURE PST	3452	3507	3742	3887	0007	4206	4366	4525	4699	4859

 $\frac{8078}{1}$ - α placent include what the cylinders indicates the limit pressure unique.

- . Figat elements lagted dues
- Arming the everyoncy floatacton goon
 - . Beginners the FLOAT ARMLW2 (ARMLFLCT.SEC) push-switch
 - Check that both lights illustrate to the Figur FIRSK (PERCIT FLOT SEC) posts writer.

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PERFORMANCE

With the energency floatables gent in stowage position the performance data specified in SECSION R : respin applicable except for distaining performance which is reduced by 50 GVan LDS symm) at $95~{\rm km}$ 345

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FLIGHT MANUAL

AS 350 B2

Supplement

ELECTRUC RESCUE HOSSIT

AIR EQUIPMENT OR BREEZE

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DEPORTANT NOTE

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"SREEZE" or "AR EQUIPEMENT" (36 kg (360 fb) ELECTRIC HOST

As per drawing , 350A MARTO 350A 52-6003

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L GENERAL

The holst Phitallation is designed to lower or rays on board people or lames, will be the electant is hovering.

The emprey's can be fitted with either of the two electric hoists BREEZE BL 15600 6: AIR EDUIFEMENT 25320

The moist including ton comprises essentially :

- 5 p'acting 1% (2) provided with a lacking bolt (3), sounted on the port a 48s of the helipopter.
- An electricatily coording which (1) (Acted with a
 - a 33.3-metre (110-ft) cubin in the case of the BREEZ hoist
 - a 40-maths (130-tt) cable in the case of the AIR EQUIPEYENT halist
- A snap hoth rounted on a pulley-block tackle (6).
- In placinical control system including.
 - . A cybie refeese guarded switch on the priot a collective lever, which is used to sever the untile in an energency
 - . A rocker exists (7) or the holet operator's control gree, which is used to rate. Invertion stop the capie.
- 740 capto guards (8) excured to the E.A. lending skild.

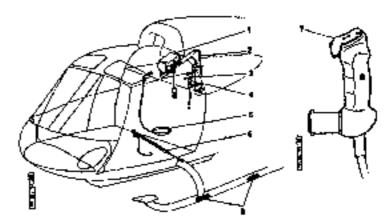
The hotal fractal lability is protected by :

- a 100-Amp fuse provided in the electrical number how
- a 60-Map Tune (4) permitted on the aft call report the heist operator's at its mappoint. Winth these tuges power the roles.

 but 2.5-Map Tuses protecting the "everymenty referent circuit.

 a 2.5-Map. Tuses protecting the "up-down" circuit.

A matter provided on the rear wall allows the hotel operator to pever the cable 14 manageany



SLP.16

2 LIMITATIONS

HOIS: OPPRANTIONS MIST BE IN ACCORDANCE WITH OPERATING REQUIRITIONS.

The limitations hald down in the homes Flight Manual readin applicable in full with the modition of the following specific bodylar.

Milliam shew a one prijot and one house querator.

- Maximum load on the holat cable 196 kg (100 to).
 For the electric equipped with the E.E Holat, before enbetrement of modification AMS 1567. Their might compact toppe to 80 kg (175 to).
- Lending with a suspended load of 135 kg (300 lb) is not permissible.
- Special biological in forward flight with hoise cable resident in and no lead on .
 - when aircraft is firetad with I, H. sinding door, is given in relevant. Supplement.
 - when 1.4 door and sub-door are measured from elegants is 70 kg 81 mPm 130 kg/mm.

3 EMERSENCY PROCEDURES

The notest installation incorporates a gyrotechnic cable cutter controlled by a guarded purhoustor, incomed on the pilotic collective lever grip, which permits the leed to be released in an energybus.

In the event of a complete elements of facilitie, have the cable severed by beans of the extension outfor available to the noise operator.

4 NORMAL PROCEDURES

The L.H. short and sub-ranor must be removed if the afforaget is not fitted with the sliding moon.

Make such that both public guarda are present and firmly secured.

The f00 Tocking bolt and the noise operator's control grip couplete with subject want be limited by before take-off

The holist exect the controlled by the holist operator actached with select helt (5) and standing or left side of the cabin. A control grip stored on the aft wall and provided enter an UP-DOWN recket evisch (7) marked MVU - D is available to the corrector.

For carrying out a holisting momentum -

- Stabilize the aircraft in large epoye the relating site
- Insure sufficient power reserve is available that will parelt moving off in forward Pright once the load w holeted on board
- 961 (New Jib) in his latting position.

OGAC Accordingly

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SUP.18



The holist operator can now control the winds. It is imagine how: into the capin, unless the jib and plays its imagings.

The shap hook can be your to hold the load while the holst cable is being unhaphed.

Do not move off in forward flight until the last is moneted on poord.

With 19th Equipment' hoist, when rigid compact leads (user 80 kg = 175 th post noc 4% 1587; are being largeted inconsequential oscillations may accean. Otenate the holet

NOTE 1 - ACR EQUIPMENT horist

Overhooting of the Winch motor must be expeded. Consequently fairth exceed 6 contests the holisting operations glus one descent with earliest load, and rapteum cable real out or equivalent.

MOTE 2 : GREEZE POINT

After each countries of the winch filovening or natising) usit 30 excords. After three consists typies (IMSE Towning with sestious icad ; the following two leasurings with no load ; plus three raisings at 1011 load) it is recommended to stop the winter for forty minutes.

S AFRIMANUAGE

With halpt (its tolides, the performence data laid down in Section 5.1 case in 800 Holla le.



350 BZ



flight manual AS 350 82

SUPPLEMENT.

FORMARD FIND-PLACE SEAT

0s per drawings : 3904 62,2046. 3504 62,2047.

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THEORY AND NOTE

The information contained herein supplements or supersedes the information given in the bacic Fight Namural applicable Flight Namural supplements.



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1 DEMERSAL

This Supplement applies by the afforaft equipped with the two-place seat. When it is counted in I fou of the caption a seet the oircraft can rarry MEVMA (HITSDOS

Z LIMETOTOMS

All the Therbations suspirited to Section 2 remain applicable with the examplion of the following specific inditations :

- The maximum number of personal commed to increased to several implication pf lot:

The initial vergit of the two passengers on the forward two-place ment wheel not exceed 154 Ka | 325 | lb |.

The optional dual controls shall be removed in proef to instabilities forward two-place seat.

3 EMERGENCY PACCADINGS

All the energency procedures epectified in the basic Filigits Manual newsin. app1rcable.

4 WORMAL PRIXEBURES

The cortain procedures given in the basic Filight Hampel resets applicable. Special attention shall be paid to pig. determination.

CRUTTON . C.G. LIMITE AT EMPLY MESONS ARE TO BE BE DETERMENTED IN RECOMMENDE ATTA THE EMPORATION CONTAINED IN THE HOSPITEMAKE MANUFL: MORK CARD No. 25,22,20,001.

MOTE - Flying with one piket, then with 7 persons on board present very sign of Icant differences in c.g. Helits It is imperative that this be alreaded in every configuration.

Ceremination of C.C. Traits

Forward two-place cost	350 4 B2, 2046 350 A B2, 2047	\$50 A 52.2128 \$50 A 52.2129
- Medghs	10.1 kg - 92.27 %	13. kg − 25.22 1μ
Hannersk L	17.2 mkg (490 mile	19.4 mag - 1628 with

Front passenger distance . 1.20 m - HR 98 in

kg .	B O	50	70	80	100	100	130	120	130	140	150
■. kg	85	102	119	136	153	170	107	204	쬤	239	255

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5 PERFORMANCE

The approved performance case glasm in the samp flight Narusi and relevant Supplements remain applicable.

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FLIGHT MANUAL AS 350 B2 SUPPLEMENT

PHEL HEATING SYSTEM

Optional : 09 1768

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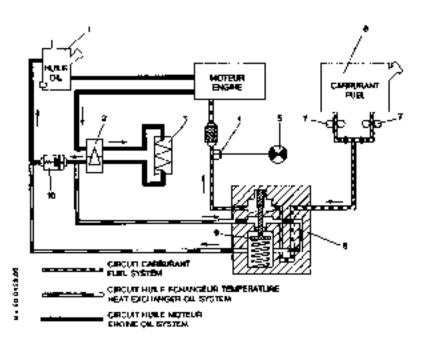
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89-17 Page 1

1 CENERAL

The fuel marm-up inscallation allows the fuel to be beet at a temperature between +5°C and +50°C, thus avoiding the use of anti-ice additives.

The fuel is warmen up by the engine oil circulating through a heat exchanger before it returns to the oil tank. The fuel temperature is monitored by a regulating system. An indicator light illuminates when the operating temperature range is escarded.



OIL SYSTEM	FUEL SYSTEM
1 Oil tank 2 Thermal valve 3 Oil Coolers 4 Thermal swatches 5 Indicator light 6 Fuel tank	7 Booster pumps 8 Okl/Fuel hear exchanger 9 Thermal causule (fuel temperature) 10 Hoat exchanger by pass-valve

2 LINITATIONS

The limitations specified in Section 2 of the basic flight Manual Fermion applicable except for the limitations mentioned below :

- With one booster pump inoperative :
 - . Timitations are the same as for the basic aircraft.
- With two booster pumps anogerative :
 - , agrimum altitude with F34, F35, JFT A, F42, or F44 full' : 5030 fc (1524 m)
 - , maximum altitude with C40 or JET B feel : 2000 ft (600 m)
- Anti-Iting additive is not required.
- The use of emergency fuels is limited to temperatures of +10°C or less.

3 EMERCENCY PROCEDUMES

Illumination of the fuel temperature amber light (FUEL T1) if temperature
is less than +STC or greater than +SDTC.
 In flight avoid sucden power variations and monitor the filter
pre-clogging indicator light in cold waather.

* MORMAL PROCEDURES

The normal procedures specified in the basic Flight Wanual remain applicable.

5 PERFORMANCE DATA

The performance data specified in the Dasic flight Market remain applicable.

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AS 350 B2 SUPPLEMENT

PROTECTION OF THE ASK INTAKE AGAINST INDUCTION OF SHOW

Optional : OP 2561

IMPORTANT NOTE

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THIS SUPPLEMENT MUST DE INCLUDED 14. THE FLIGHT WANUAL WHEN THE EQUIPMENT NEWTICHED ABOVE IS INSTALLED ON THE AHCRAFT



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1 CEMERAL

This installation is designed to protect the air intere against any potential induction of snow in flight, in falling snow.

The know protection device is fitted on the engine air intake and below the ice protection screen. It is compused of youtex garageter tubes through which the ambient air flows before being forced towards the another air letake.

2 LIMITATIONS

The infinitations laid down in the basic Flight Manual remain applicable, with the exception of the flight envelope restrictions in case of falling annumentation are case of falling.

3 EMERCENCY PROCEDURES

The Emergency Procedures specified on the basic Flight Manual Kemann applicable

4 HOMMAL PROCEDURES

The Normal Procedures specified in the basic Flight Marual remain applicable, but are completed by the following procedures :

EXTERNAL CHECKS

- Engline akt lutake :
 - memowe snow or age from the win intake grid,
 - . open the engine comling.
 - check for snow, are or water in the air intake, and particularly under the snow protection device.

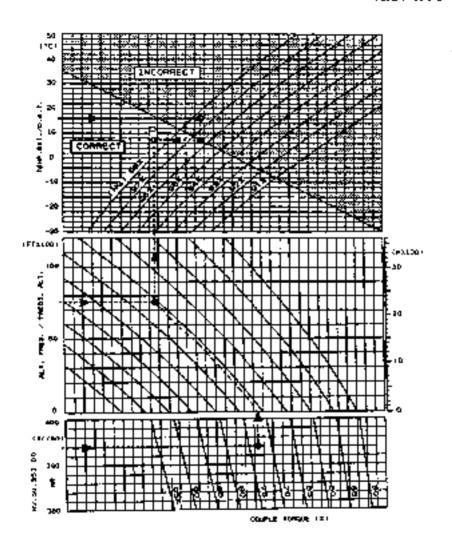
ENGINE CONDITION CHECK

Use the power check chart of the following page (Figure 1).

The procedures for therks on ground and in flight, given in Section 4, remain applicable.

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Fagure 3 : Engine Power Check with Air Batake Protection Device

5 PERFURNAMEN

The Perforance Data specified in Section 5.3 of the masic Flight Manual are unaffected, with the exception of the following specific performance data :

FEIGHT CONFIGMATION	PEATING AND DEMISTING SYSTEMS (AF	HEATING AND/OR CENISTING SYSTEMS OPERATING
I.G.E. hover	Figure 2	Figure 2 minus 60 kg (330 lb)
O.G.E. havar	Figure 3	Figure 3 Minus 60 kg (110 lb)
Nate-of-cliate	Figure 5	Figure 5

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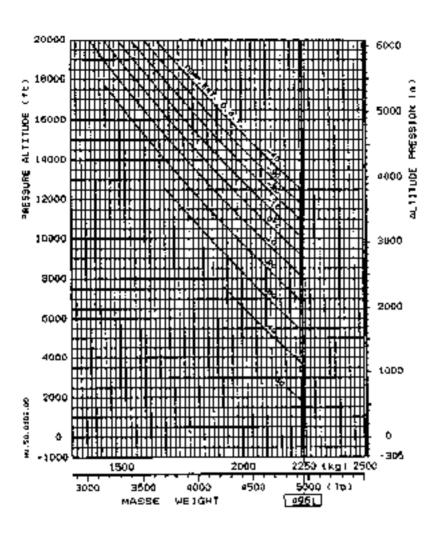


Figure 2

COMPSTERMS

- Height : 5 ft 2.5 h
- Meating and demisting systems off

IGE HOVER PERFORMANCE

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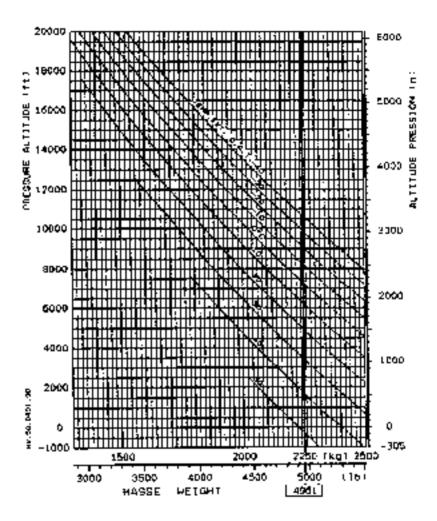


Figure 3

CURDITIONS

- Ma wind — Heating and demissing systems off

CICE HOWER PERFORMANCE

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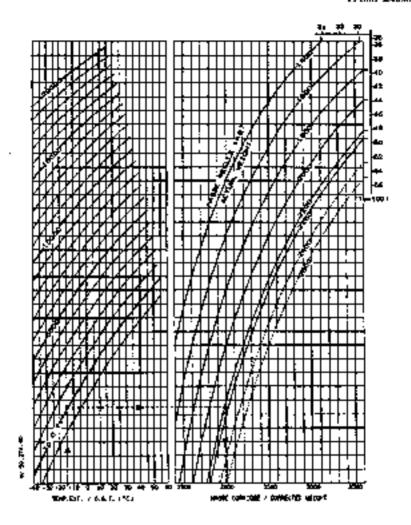


Figure 4

<u> MOTE</u> :

Weight limitation with internal load - 2250 kg (4961 3b)

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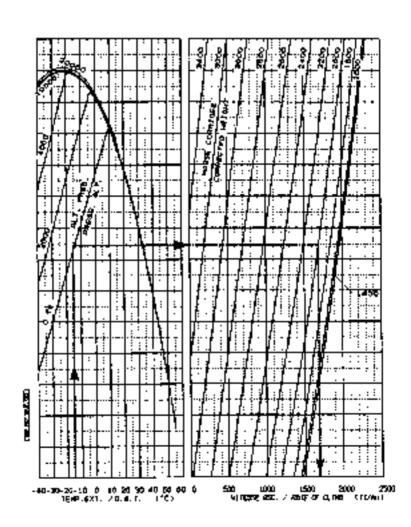
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CORRECTED METCHT 10 CHTFRUINT BATES OF CLIMB (On Figure apposite)

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CONDEPTIONS

- Max. construous power sating 185 55 kg - 192 km/hr

RATE OF CLEAR

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FLIGHT MANUAL AS 350 B2 SUPPLEMENT

LONG AND SHORT FOOTSTEPS

LCNG 0.350-591-111-a 5HORT 0.350-591-113

IMPORTANT NOTE

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I CENERAL

The long footstep (P/M 0.)50-591-111-0) on the high landing year facilates Cabin access and inspection of the transmission platform.

The short footstep (P/N D.350-591-113) on the high landing gear. facilates cabin access.

2 LIMITATIONS

The limitations specified in the basic Flight Manual and relevant Supplements remain applicable.

3 EMERGENCY PROCEDURES

The emergency procedures specified in the basic flight Manuel and relevant Supplements remain applicable.

4 MORMAL PROCEDURES

The normal procedures given in the basic flight Manual and relevant Supplements remain applicable.

5 PERFORMANCE

Performance data given in the basic Flight Wangal and relevant Supplements remain applicable but are completed by the following procedures :

- Aute of clamb : reduce by 2.5 %.

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FLIGHT MANUAL

AS 350 B2

Special supplement

FERRY FLIGHT FUEL TANK

per drawings : 2504 82,2005 3504 82,2036

IMPORTANT NOTE

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Page J *01*

1 GERERAL

The range of the helicopter can be increased by installing a special farry flight tark transversally in the rear cabin area.
The increalation consists essentially of :

- 4 475—little (325-05 gb).) capacity removable tank. The unusable fuel quantity is megallophie.
- A vent fine
- A fuel transfer line, with an isolation value, between the ferry fuel tent and made fuel cank.

2 LIMITATIONS

1915 INSTALLATION IS TO BE USED UNLY FOR FERRY FLECHT WITH THE SPECIAL PERMESSION OF THE COMPETENT AUTHORITIES.

The Populations laid down in the basic Floght Warmal Lebain Apolicable. In addition :

- Only personnel indispensable to the accomplishment of the mission are authorized to fly in the aircraft,
- Smoking is probabated, due to the presente of fuel in the taxe in the cabin.
- Maximum arrang of the cabin is to be ensured.

The weight of fuel that can be carried in the fermy tank well depend on the loading of the relicotter and can be determined by referring to the C.C. chart, bearing in who that the forward c.g. limit on take-off with a full main lank supt not be exceeded.

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3 EMERGENCY PROCEDURES

If a fuel leak should poour in the cable :

- Land at soon as possible,

4 NORMAL PROCEDURES

Chacks before filling the took

- Wake some than the ferry flight task is securely attached.
 Check that the ferry tank went line as correctly installed.
- Close the transfer value.

Filling procedure

- Fall the main feel tent
- Fill the ferry tank to the enount prayiously determined.
- Check C.G. Todecton :
 - . Beight and moment of empty ferry tank are given to Section 6. Fuel is Eccated at 90.3 in. (2.32 m) from datum line.

In-flight procedure

- Take off and fly much the transfer valve chaped.
 When the first gauge reads 80 %, open the transfer valve. The fuel level in the two tanks is then aqual of the quantity in the ferry tank is approx. 79.2 US gal. (300 1.).
- If there is a difference on fuel level, transfer will accur and balance will be arrained within ten minutes.
 - With the fuel levels are balanced the quantity terresponding to the gauge reading is :

dauge daading	90	80	70	40	50	40	ю	10
Litres	24 5	70S	605	503	405	305	205	103
L US CAI	232	186	159	133	107	60	94	27
f typ (a)	174	154	132	110	48	45	45	23

When the gauge reads 10 % the ferry tank is empty and the quantity of fuel remaining in the main tank is 27 mS gal./23 log. gal./105 litres.

习

When the transfer valve is open it is important to ensure that transfer is effective by making sure that the fuel gauge undicator painter is moving

CAUTION - IF FUEL TRANSFER IS NOT OPERATIVE, LAW REFORE THE FUEL CAUCE MEADING HALLS TO SO N. FAILURE TO LAWO ABOVE 60 % MAY RESULT IN CENTRE OF CRAVITY MOVERS OUTSIDE ALLOHOUSE CONTS.

S FERFORMACE

The approved performance data contained in Section 4 of the flight Manual are not affected by the ferry Ω high tank heats) latton.

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FLIGHT MANUAL AS 350 B2 SPECIAL SUPPLEMENT

ABSEMLING THISTALLATTON

Per drawing : 355#84.0080

IMPORTANT NOTE

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DCAC Approved:

350 BZ

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99-37 Page 1

1 CEMERAL

This installation allows trained personnel to perform abseiling. It consists of two range (ised to the cabin floor in from of the passenger's seats and of a protection for the lower rable of each sliding door.

2 CIMERATIONS

THE USE OF THIS TYPE OF INSTALLATION IS SUBJECTED TO THE APPROVAL OF THE COMMETERS OFFRALLOWAL ACTIONAL SES.

The limitations specified in the basic flight Manual and relevant Supplements remain applicable : however, they are completed or medified by the following limitations :

- Absenting is limited to haver flight.
 After completion of the absenting operation, transition to forward flight or landing is withibited with the ropes unwound.
- The load on the absoling installation is dimited to 120 mg per ring.
 A place affixed close to each ring indicates the maximum load.

3 ENERGENCY PROCEDURES

The Emergency Procedures specified in the basic Flight Manual and relevant Supplements remain applicable.

4 NORMAL PROCEDURES

The normal Procedures specified in the basic Flight Manual and relevant Supplements remain applicable . however, they are completed by the following :

- Refere cakeoff, decermine the weight and CG conditions which will prevail
 during the mission, knowing that the load on the asbeil ropes is located
 at :
- . 2.24 m from the langitudinal datum,
- . 1.09 m from the aircraft (enterlane

5 REGULATURY PERFORMANCE DATA

The Regulatory Performance Data specified in the basic Flight Manual and relevant Supplements remain applicable.

SUP.56



OGAC Approved:





DART AEROSPACE LTD

2071 Malavew Averue Sidney, BC, VBL SN7 Cagada

TH 604 656 2262 Fax: 604 656 2993

FLIGHT MANUAL SUPPLEMENT

Spacepod*

SIDE CARGO COMPARTMENT EXTENDERS

EUROCOPTER AS350/355 MODELS

This supplement must be attached to the approved flight manual when the listed equipment is installed. The information contained herein supplements the information in the basic Helicopter Flight Manual. For limitations, procedures and performance data not contained in this document, consult the Helicopter Flight Manual.

CAA APPROVED

Alternament A Cata: 95.09.25



LOG OF AMENDMENTS

Rev. No.	Pages Revised	Revised Sy and Date	Approved By	Inserted By	Date Inserted
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SECTION 1 - GENERAL

NO CHANGE

SECTION 2 - LIMITATIONS

VER FLIGHT ONLY

Flight under IFR is prohibited with the pods installed

INTERNAL GARGO LOADING

Maximum Load in the LH (Port) Hold: 364 lb (168 kg)

OECAL: (located inside soor).

MAXIMUM DISTRIBUTED LOAD

IN THIS COMPARTMENT

364 lb / 165 kg

(imum Load in the RH (Stad) Hold: 120 lb (145 kg)

DÉCAL: (located inside coor!

MAXIMUM DISTRIBUTED LOAD

IN THIS COMPARTMENT

320 lb / 145 kg

133

. 251

Page 4 of 4





SECTION 3 - EMERGENCY PROCEDURES

NO CHANGE

SECTION 4 - NORMAL PROCEDURES

DAILY INSPECTION (Predignt)

Check physical integrity and security of the Spaceped* body and door

SECTION 5 - REGULATORY PERFORMANCE DATA

CLIMB

Clinto performance will be reduced by up to ±00 frm when pods installed.



Page 1 of 4

DART AERO ACCESSORIES INC

PO 8ex 23003 Victoria International Airport Sidney, 8C V&L 5N7, Canada

Tel 804 856 2262 Fax 604 856 2993

FLIGHT MANUAL SUPPLEMENT

Heli-Utility-Basket™

EUROCOPTER AS 350 MODELS

STA No. SH94-14

This supplement must be attached to the approved fight manual when the listed equipment is installed. The information contained herein supplements the information in the basic Helicopter Flight Manual. For limitations, procedures and performance data not contained in this document, consult the Helicopter Flight Manual.

COMPLIANCE WITH SECTION 1, OPERATING LIMITATIONS IS MANDATORY.

DOT APPROVED

L.B. Samoil

Regional Airworthiness Engineer

Pacific Region

Amendment: A Sate. May 20th, 1994

FMS D350-607

Page 2 of 4

LOG OF AMENDMENTS

Rev. No.	Pages Revised	Revised By and Date	Approved By and Date	Inserted By	Date Inserted
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SECTION 1 - LIMITATIONS

Vite

MAX:MUM Vne - 124 KtAS

Autorotation Vne

MAXIMUM AUTORATION Vine - 100 KIAS

COMPATABILITY

Heli-Utility- Basket" is compatible with.

Approved Bearpaws
DART Heli-Access Steps*
Approved Mirror Assembly
DART Vertical Reference Widow

PLACARD: (located on lic)

MAXIMUM DISTRIBUTED LOAD

200 lb / 91 kg

NOTE, THE BASKETS ARE LOCATED CENTRALLY AT:

LONGITUDINAL STATION: 135 in / +3422 mm LH LATERAL BU 448 in / 1222 mm

LH LATERAL BU 48 in / -1222 mm RH LATERAL BU +48 in / +1222 mm

BASKET EMPTY WEIGHT: 65 to / 29 5 kg

SECTION 2 - NORMAL PROCEDURES

PREFLIGHT

Ensure hid is closed and securely latened

DAILY INSPECTION

Check physical integrity and security of the Hell-Utility-Basket

DOT APPROVED

Amendment: A A

SECTION 3 - EMERGENCY PROCEDURES

NO CHANGE

SECTION 4 - PERFORMANCE DATA

CRUISE

Vhireduced by up to 15 KIAS.

CLIMB

Rate of climb may be reduced by up to 200 FPM

AUTORATION

Rate of descent may be increased by up to 100 FPM.

HOVER

No Change

DOT APPROVED

Amendment: A (, May 20, 1994

Batel Steel of James

Beparement of Accuragosetation — Jedecal Abiation Administration

Supplemental Type Certificate

Number

SECOLLINY

This confidence want to

Dan Aero Accessomes Inc. P.O. Box 23003 (TDQ) Victoria International Airport Sidney, Bringh Columbia Canada VSL, SN7

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Rogadatura

Conjunal Rodge - Type Confescato November HOEU (AS-350 Sepas), HILEU (AS353 Series)

Marker Europepher France

M.27 A3-350B, AS-350B1, AS350B2, AS350BA, AS-350C, AS-350D, AS-350D1, AS355E, AS355E, AS355F1, A5355F2

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— Illation of Brilling Basicet & accordance with Dan Aero Accessories, Inc., Drawing No. D350-607, Rev. B, dated February 7. 1994.

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- t. Dart Aero Accessories, Inc. Meiateoance Magual Supplement MMS-D050-607, Revision A, dated February 22, 1994 as ուպառան with Line STC
- 4. Dark Aero Accessories, Inc., Filight Masteal Supplement FMS D350-607. Amendment A., dated May 20, 1554 (A3-350 Series Only) is required with that 57C.

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Date of application

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May 18, 1994

August 8, 1994

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By Limitian of the Schwarzelowie d. Brumer

lewio N. Brueser(ágranar) Mgr. New York Ajropast.

Certification Office

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अव्यवस्थान के Transportation—ईरक्तश्च विकास अधिकांका अधिकांका

Supplemental Type Certificate

(Continuation Sheet)

Number

SR002LONY

Date of farmance: August 8, 1994

Limitations and Condisions (continued):

- 3. Dart Amu Amassories, Inc. Flight Mantal Supprement FMS D355-50°, Amendocott A., фард Мау 20, 1994 (A5-555 Series Guly) is required with the STC.
- 4 approval should not be incorporated in any aircraft of these specific models on which other approval modifications are so, parallel, unless at its determined that the interrelationship between this change and any of those previously incorporated approved modifications will not associate any adverse affect upon the surventhiness of the agents.

··END··

DEPARTMENT OF TRANSPORT

oplemental Tysk Approva

Humber: SH94-14

This approval is issued to:

Dart Agrn Accessories Inc. P 0 Bix 20003 cmg Victoria Interretional Airport Sluney, British Columbia Capada VBL 9N7

Approval Date: May 23, 1994 Issue Date: May 20, 1994

issua No.: -

Responsible Region

Pacific

Aircraft/Engine Type or Mode:

Surocopter France AS-1948/81/82/2A/C/D/D1 AS-335E/7/F1/F2 S-81 (AS-350 Series) & M-87 (AS-355 Series)

Canadian Type Approval or Equivalent:

Dascription of Type Design Change:

Utility Banker Installation

L.c Limitations:

installation/Operating Data. The Unility Basket Installation is to be carried out in accordance with DOT sealed Dart Aero Accessories Inc. Drawing No. 0050-607, Revision B. dated February 22, 1994*.

Required Equipment:

 Dart Aero Accessoraes Inc Maintenance Marmal Supplement WMS-0350-607, Revision A. dated February 23. Maintenance Marrial 1994.

2: AS-350 Series Coly. DOT Approved copy of Caro Aero Accessories Int. Plight Marmai Supplement FMS 2350-507, Revision A. deped May 20, 1994*.

31 AS-355 Series Only. DOT Approved copy of Dark Aero Accessories Inc. Flagnt Markel Supplement PNS 0355-607. Revision A. dated May 20, 1994+.

(* or later approved revisions)

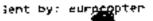
Conditions: This approved is only applicable to the type I model. of Berchautical product specified therein. Phon to incorporating this modification, it shall be established that the interrelationship between this change and any other modification(s) incorporated will not adversely affect the arway by asset the modified product.

> L.A Samo:1 Regional Adamordianus Engineer

For Minister of Transport

Canada

M 2117 (2 W





ÉLIFOCOPTEF FLIGHT MANUAL AS350 C, D, D1, B, B1, B2, B3, BA ■ CƏDƏCTƏ

FLIGHT MANUAL SUPPLEMENT

FOR MODEL AS 350 / AS 355 HELICOPTERS

WITH LH AND / OR RH CARGO PODS ("SQUIRREL CHEEKS") INSTALLED

This supplement shall be attached to the applicable approved EUROCOPTER AS 350 and AS 355 Flight Manuals, when the "SOUIRREL CHEEKS" are installed on the aircraft in accordance with DOT STC No. . . SH97-15 , SH97-80

Section 2.3.4, and 5 of this document comprise the approved Flight Manual Supplement. Compliance with Section 2, Certification Limitations, is mandatory. Section 1 and 6 (if applicable) of this document do not require D.O.T. approval but contain information which may be of use to the pilot and therefore are included as "Manufacturer's Data"

Department of Transport (Canada) Approved

CANADA
DEPARTMENT OF TRANSPORT
AERONAUTICAL ENGINEERING
DIVISION

שלעו ד אבא

APPROVAL No. 5797-15

Regional Airworthiness Engineer Ontario Region



FLIGHT MANUAL AS350 C. D. D1, B, B1, B2, B3, BA AS355 E, F, F1, F2

GENERAL (unapproved)

The optional Cargo Pods ("SQUIRREL CHEEKS)" are an enlargement of the LH and / or RH cargo compartments.

The volume of the normal baggage compartment with no cargo pods installed is 7,1 cubic feet on the right side with the battery in the basic helicopter configuration, and 8.3 cubic feet on the left side.

With installation of the Cargo Pods ("SQUIRREL CHEEKS") on each side, the baggage compartment volume is almost doubled (right side 14.1 cubic feet, left side 15.3 cubic feet) With the Cargo Pods ("SQUIRREL CHEEKS") installed, the fill cargo compartment can carry up to 175 kg (386 lb), and the ith compartment can carry up to 195 kg (430 lb). They are constructed with a reinforced aluminium floor with no lip at the door for easier loading. The Cargo pod floor and top can be stood upon by maintenance porsonnel.

The Cargo Pods have large doors that are hinged to open in the forward direction, with gas struts to hold the door in the open position.

The coors incorporate high quality door latches which are easy to operate.

Additional RH Cargo Pod volume and weight capacity can be achieved with the additional installation of Optional Equipment ECL-6, Battery Relocation.



rocopter | _{FLI}GHT MANUAL AS350 C, D, D1, B, B1, B2, B3, BA **[** AS355 E, F, F1, F2

2 LIMITATIONS

No change

3. EMERGENCY AND MALFUNCTION PROCEDURES

No change

4 NORMAL PROCEDURES

No change

5. PERFORMANCE DATA

The following performance data is equally applicable with \$14, RH or both Cargo Pode installed:

AS 350 C, D, D1, B, B1, B2, B3, BA

- For hover IGE and OGE, use the standard performance charts in Section 5 of the Flight Manual but reduce the resulting helicopter weight by 30 kg.
 - NOTE: The HOGE chart in Section 5 may be extrapolated to 30 kg above maximum weight for this calculation, but the the maximum weight of the helicopter does not change.
- b. For Climb, use the standard performance chart in Section 5 of the Flight Manual, but reduce the resulting rate of climb by the following amount:
 - for AS 350 C, D, D1, B, BA; 200 ft/min.

AS 355 E. F. F1, F2

- For hover IGE and QGE, use the standard performance charts in Section 5 of the Flight Manual but reduce the resulting helicopter weight by 60 kg.
 - NOTE: The HOGE chart in Section 5 may be extrapolated to 50 kg above maximum weight for this calculation, but the the maximum weight of the helicopter does not change
- For Climb, use the standard performance chart in Section 5 of the Flight Manual, but reduce the resulting rate of climb by the following amount:
 - for A\$ 355 E, F, F1 and F2;

NOTE: At attitudes over 10,000 ft, the AEO climb performance penalty given above is estimated only.

FachT	Approved:		
	ADDIOYSU.		



FLIGHT MANUAL AS 350 B2

REGISTRATION No.

SERML No

IMPORTANT NOTE

The practical value of this manual depends antitiny upon he being up dated contactly by the operator.

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350 B2

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LIST OF ADDITIONAL PAGES

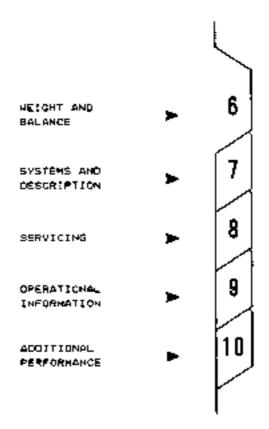
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PART 2



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94-17 Page :

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COMPOSITION OF RUSH REVISIONS (RR)

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SECTION 6

MEIGHT AND BALANCE

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Page 1

- 4.1.2 Example : Analysis for a passenger transport mission
- 4.1.2 1 Before takeoff
 - Decermine the maximum permissible takeoff weight.
 - 2) More the equipped smpty weight and the moment.
 - 3) Refer to tables given helem to determine leading (unditings : totalize weaphts and moments

 - a) Calculate the c.g. location
 b) Check that c.g. falls within permissible limits.

Example :

	kg	n.kg
EEM Crem Passengers Sade cargo hold Fuel	1200 160 140 50 •00	4272 244 156 160 1390
TOTAL	1950	6426
C.g	<u> 6426</u> -	3.295 m

i.e. longitudinal c.g. is within the permissible limits.

4.1.2.2 In fitche or an landing

Same procedure as above, taking into account the weight and moment of the fuel remaining.

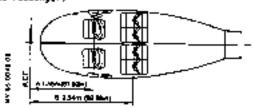
	49	m. kg
LCW	1200	4272
Leem	160	748
Passengers	140	356
Sige cărgo huid	. 50	160
fuel	50	173
	I—	—
TOTAL	1600	5209

Longitudinal c.g. becomes :

1.m. c.g. is within permissible limits.

4.2 Loading Care

4.7.1 Crew and Passungers



	METRIC (MICT)	<u> </u>
WEIGHT !	(A)	T:mukg (8)
60	93	123
£0	124	1 269
100	155	254
120	186	105
140	219	356
160	248	406
180	229	857
200	3110	508
220	341	559
240		610
260		-66ñ
. 280		711
100		762
320		812

IMPERTAL LANTS					
WETCHL	MOMENT : 1n. lb				
lb l	(<u>N</u>	(6)			
100	6102	9999			
130	9153	12999			
200	1220#	19998			
750	15755	24997			
300	18306	29997			
350	21357	34996			
400	24400	35996			
450	27459	44995			
200	30510	49995			
550	-	51994			
600		59394			
650		64993			
700		59991			

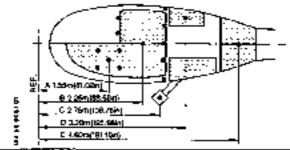
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Page 4

4 2.2 Freight and baggage transport

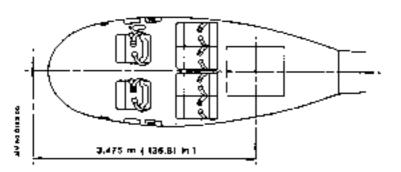


	METARC UNITS								
WEIGHT ka	(4)	4048 	SNT : m.kg (C)	(D)	(6)				
10 20 50 70 80 100 120 150 250 250 310	15.5 32.0 77.5 108.5 124.0 755.0 186.0 737.5	22.5 45.0 112.5 157.5 180.0 270.0 937.5 450.0 562.5 675.0 691.5	27.6 55.2 138.1 193.4 221.0 276.3 331.5 414.4 552.6 690.7 828.9	32 64 360 274 256 320 384	46 97 230 312 368				

		IMPERIAL	. UNITS		
₩ LIGHT					
16	<u> </u>	(8)	{E}	(0)	.(1)
50	3051	4429	5439	6299 F	9055
100	6102	8858	10878	12398	18110
150	9153	13267	16317	18897	27165
176	10740	15550	19036	22177	31874
200	12284	17736	21756	25196	222.4
220	13424	19483	23931	27716 .	
250	15255	22145	27195	31495	
264	16109	23385	28718	33259	
300	T#306	26574	32634		
330	20133	29231	15897		
400		15432	43532		
507		14290	94390		
600		53148	65768		
68?		60412	74 188		

6.1

4.2.3 Fuel



<u>METE</u> : Fuel specific gravity : 0.79

METALC EMITS								
Intre	Kg	■. kg						
10	3	24						
340	16	56						
40	32	111						
60	47	163						
. 80	65	219						
100	79	275						
150	119	414						
200	LS-E	549						
250	198	688						
300	237	824						
350	277	963						
¢00	316	109R						
540	477	1484						

IMPERTAL LACTS									
UK dail.	16		im. 16						
\$	40		5477						
10	79	•	10808						
20	15H		21616						
30	538		12581						
40	317		43369						
У Л	396		54177						
€0	475		6 ¢ 985						
20	554		75793						
50	633		M6601						
90	712	•	97409						
100	792		108353						
110	871		119161						
119	940	i	128501						

	INPERIAL UNITS									
(15 gáil.	ነъ	1n. 1b	US 461.	Ъ.	î in. 16					
5	33	4515	70	462	63206					
10	-66	9029	MD-	527	72099					
15	99	13544	90	593	81126					
50	132	18059	100	659	90138					
30	198	27088	110	725	99167					
40	264	36118	120	791	108217					
50	3 3 D	45147	130	657	117246					
60	396	54177	143	910	128601					

350 BZ

4.4 <u>CG Charts</u>

The following charts (metric units and Impertal units) are used to easily know the autorate controlographity. When the point obvained is close to the limits, it should be confirmed by calculations.

These charts are designed so that the variations in the fuci weight make CC move along a vertical $1^{2} m_{\pi}$.

Figure 1: Total weight 1800 by for a centre of gravity of 3.30 m. During the flight, after consumption of 200 kg of fuel, the centre of gravity will be 3.28 (Kefer to chart).

Example 2: Total meight 4000 lb far a centre of gravity of 1:1 in.

During the flight after consumption of 600 lb of fuel, the
centre of gravity will be 1:0 in. (Refer to chart).

The weight and CG Inmick are given in the timilations SECTION and may be modified by the Supplements corresponding to the optional items fitted.

4

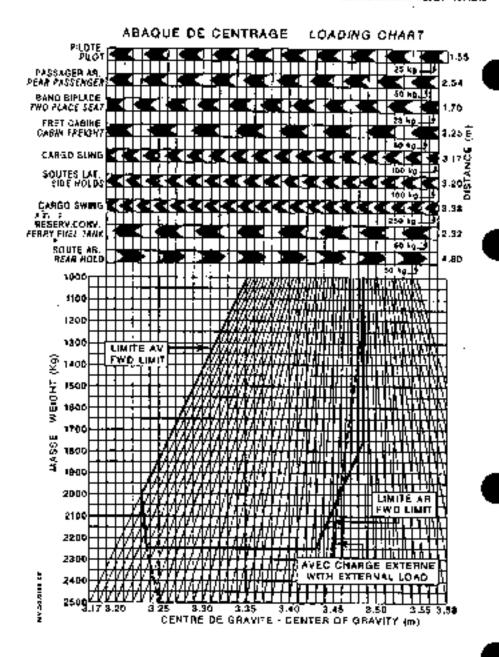
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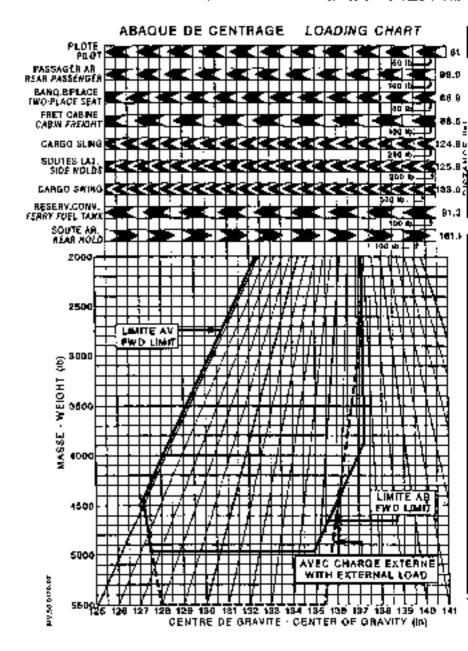
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750 AZ

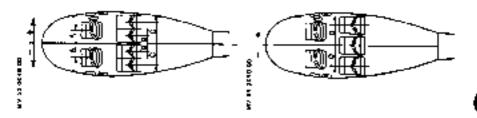


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5 LATERAL C.C.

The tables below give the lateral c.g. positions for different weights and their manages with respect to the Y plane (positive dimensions on the (ight, negative dimensions on the left).

1.1 Crew and passangers

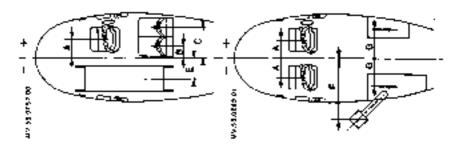


	WETRIC (MITS											
ME:CHT	4	MOMENT : a. Lg A+ A- B+ B- C+ C+ D+ D-										
555	4 18 + 22	- 18 - 22	+ 10 + 12	- 10 - 12	+ 31 + 37	- 31 - 37	+ 27	- 27 - 32				
70 80 90 100	+ 25 + 29 + 32 + 36	- 29 - 32 - 33	- 14 - 17 - 19 - 21	- 14 - 17 - 19 - 21	+ 43 + 50 + 56	- 43 - 56	+ 37 + 43 + 45	- 37 - 43 - 48				
110 120	1 50 1 60 1 53	- 40 - 43	+ 23	- 33	+ 62 + 68 + 75	- 62 - 68 - 75	+ 54 + 59 + 64	- 50 - 59				

<u> </u>	IMPERIAL UNITS										
■ELOHT 16		 L a -	6 +	MOMENN 8 -	់ : in.1	ь с-	 n +	Lo			
	-						- ۱				
100	+ 1417	- 3417	· 815	- 315	- 2445	- 2445	+ 2206	- 2106			
120	+ 1700	- 1/00	± 978		2931	2924	+ 2528	- 252 e			
. 140	- 1984	- 1984	- 11-1	- 1141	- 3473	- 3423	+ 2949	- Z949			
160	- 2267	- 2267	+ 1304	- 1304	• 3912	- 3912	+ 3370	- 3370			
d 160	+ 2551	- 255L	+ 1467	- 3467	- 440L	- 4401	+ 3791	- 3791			
200	+ 2834	- 2834	+ 1630	1630	• 429 0	- 4890	+ 4213	- 4213			
550	- 3117	- 3111/	4 1793	- 1793	+ \$379	- 5179	+ 4634	- 4634			
240	+ 3401	- 340a	± 1956	- 1956	+ 5168	- 5866	+ 5055	- 5059			
260	+ 3684	3654	+ 2119	- 2119 .	+ 6357	- 6157	+ 5476	- 5476			

6.1

5.9 Air ambulance, hoist and lateral become holds



	METAIC UNITS															
₩\$1ĠNT Eg		MOMENT : nt.kg														
		A+ A- B+ C+ E- F- C+ G-														
50 60 70 80 80 100 110 120 130	+ + + + - + + + + +	18 22 25 29 32 36 40 43 47		18 22 25 29 32 36 40 43 47	*****	10 12 14 17 19 21 23 25 27	* * * * * * * * * * * * * * * * * * * *	31 37 43 56 62 63 75 81 84		23 25 29 33 41 46 50 54 56		77 93 108 124 139 154 170 185 201 210	+ + + + +	28 33 39 44 50 56		28 33 39 44 50 56 61 67

<u> </u>												
⊭£1CHT lb		MOMENTS en 1m.1b A + A - B + C + E - F = G + G -										
	* +											
100	+ 1417	- 1417	+ B15	- 2465	- 1634	- 6079	+ 2189	- 21 8 9				
120	+ 1700	- 1700	+ 978	2934	- 1961	- 7294	+ 2627	- 2627				
140	+ 2564	- 1954	+ 1141	+ 3423	- 2287	- 6510	4 3065	- 3065				
160	+ 2267	- 2267	+ 1304	- 3913	- 2614	- 9726	+ 3502	- 3502				
180	+ 2551	- 2551	+ 1467	+ 4401	- 2941	-3094Z	+ 3940	- 3940				
700	• 2434	- 2834	+ 1630	4890	- 3268	-12157	+ 4378	- 4376				
220	- 3117	- 3117	+ 1793	 5379 	- 3595	-13373	+ 4816	- 4810				
240	- 340L	- 3001	+ 1954	• S866	- 392 k	-34589		- 5254				
260	3684	- 3684	+ 2119	+ 6357	- 4248	->5405		- 569.				
280	3968	- 3968	+ 2232	+ 6846	- 4575	-17020						
300	+ 4252	- 4252	+ 2445	+ 7335	- 4502	-18296		l				

350 82

6.1

5.3 Decembration of Japanal e o location

The computation method is the same as that used for determining the Rongitudinal c.g. location (para, 4.1).

And weights and moments to the aircraft empty weight and moment referring to preceding dage.

Lateral c.g. location values during the mission shall fall within the permissible limits.

Example during hoisting operation

_	Kģ	m Kq	_
Egőlpped Egyzy Meight	1200	+ 14	
₱ ilot	80	+ 29	
Pilot µMgist operutar	30	- 43	(Regalive moment : hoist operator located left to aircraft Symmetry plane)
Hoisted Noad	176	- 210	
Fuel during hoiseling	500	٥	_
	16 96	- 220	
tareral c.g. Toration	- 210 - 1696 -	- 0,124 m	

This value falls within the permissible ! whire

350 87

6 WEIGHT AND POMENT OF EQUIPMENT ITEMS

The following list covers the optional equipment items. It gives the approximate weight and moment of the removable components.

					_
DESCRIPTI(o)	N 9.3	eroer I m		■ Εωτ 1π.16	}
Aircraft too' kir	<u> </u>			171.18	1
Cabin fire extinguisher	2.1	4.6	3.2	275	l
Axe	3.1	2.4	1.7	169	l
Door + subdoor	14.0	30.9	27.2	7360	l
High front seat	10.4	23.4	17.1	1454	l
Low front seat	7.3	16.1	11.5	991	l
2 Two-place sears, rear	23.1	46.5	34.6	4739	l
1 Three-place sews, resc (complete with someests)	26. 2	57.8	67.6	1867	
Bual control	2.3	5.1	2.6	225	١
Restery	17.1	38.1	69.0	5990	١
Skis SEFA complete with struts	10.4	67.Q	105.6	9165	١
Skis SEEA without struts	23.6	52.0	82.4	7158	١
SENS *SURFAIR*	26.5	59.2	113.4	9871	l
Emergency Floatathan gear	67.6	148.8	227.5	1973&	١
Sling (cargo swing)	23-3	29. 1	43.4	3771	١
Weels for soft ground	44.6	\$3.9		!	١
Ferry rank	35.0	77.2	62.7	71,43	١
Simple stretcher installation (not including stretcher)	0.7	1.5	1.1	95	
Double scretcher installation (nor including stretcher)	2.3	5.1	3.9	340	
Streecher	15.1	33.3	26.7	2316	
					- 1

6.1

350 B2

DESCRIPTION		топ		
	L., kg	Т 1ь		
BREEZE electric horse 136 kg (100 lb) (arm, winch, grip, pulley-plock, belt, shqars)	26.0	57.4	68.4	5947
AIR EQUIPEMENT electric boist 136 kg (200 lb) (arm, wanch, grip, pulley-block, belt, shears)	33.4	73.7	\$7.9	7637
EXCAIGN search light	10.1	22.3	9.3	603
tow landing gear	42.9	94.5	145 6	12618
High landing year	55.5	172.2	187.1	16189
Footstep	2.9	6.4	5.5	478
WANDSL AND COLTERBANN Hailers	16.6	36.6	63,9	5548
		i		
		ŀ		ļ
				· i
			1 1	
			[
			.	
				- 1

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350 02

SECTION 7

SYSTEMS AND DESCRIPTION

CONTENES

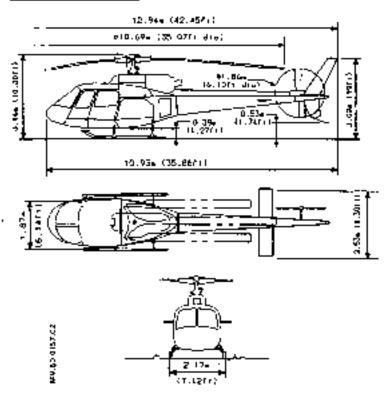
- 7.B SEADING PARTICULARS
- 7.5 COCKPIT
- 7.2 MARMING-CAUTION-ADVISORY PROJECT
- 7.3 POWER FLANT
- 7.4 FUEL SYSTEM
- 7.5 ROTOR AND TRANSMISSION SYSTEMS
- 7.6 FLIGHT CONTROLS
- 7 7 HYDRAUX IC SYSTEMS
- 7.8 ELECTRICAL POMEN SYSTEMS
- 7.8 PITOT-STATIC SYSTEM
- 7.10 HEATING AND CEMISTING SYSTEMS
- 2.11 CECHTING SYSTEMS

99-3R

SECTION 7.0

LEADING PARTICULARS

1 MAIN AIRCRAFT DIMENSIONS



Overall dimensions of helicopter

- Dwgrall length, rotor curning	12.94 m	42.45 fc
- Waln rotor diameter	10.69	35.07
- Height to top of tin, low L/G *	3.02	5.91
- Length, bladgs folded	10.93	35.86
- Midth, blades folded	2.53	8, 30
- Meight to rotor head. Tow 1/6 *	3.14	10 30
- Ground clearance below cabin, low L/G =	0.19	1.27
- Midth of Pusgiage	1.87	6.14
- Length of Insulana	10.93	25 145

r Plus 0 20 α (0.65 ft) when afteraft equipped with high L/Q

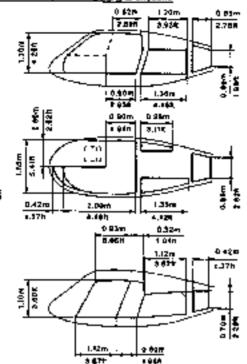
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89-L7

موحا

350 B2

Z ACCESS DOORS AND COMPARTMENTS DIMENSIONS



<u>Cabin</u>

AN 39.PJ45. NA

Baggage compartment, areas

Max. length	2.42 m	7.94 ft '- LH hold	0,43 m2 4.62 sq.f(
Wax. H1d€h	1.65 m	5.41 áς — AH huld	0.35 m2 1.76 50, Ft
- Wax. height	1.3C m	4.26 ft - Rear hold	0.55 m2 5.92 sq.ft
- 4vablable finor	3.60 თე	77 58 sq ft	4
A-W4			

Cabin Goors

Baggage comparement volumes

- Formard doors			- 1H hold	0.235 m3	8.29 cu.ft
. ■idth	1.12 m	3. 67 fc	- 6H hold	0.200 m2	7.06 cu.ft
. Height	1.10 m	3. 6 0 00	– €ea r hold	0.565 me	19.94 cu.ft
Lena	1 25 -7	33 40 44 60			

- Rear subdoors

■idth	0.60 =	1.97 ft
Height	1.10 =	3 6 0 ft
. Area	0.69 🗪	7.43 sq.ft

- Available volume 3.00 m3 105.94 railt;

7.0

3 ENGINE DAYA

The mirroraft is equipped with an AARIEL 101 modular-design free-turbing curooshaft engine, mounted aft of the MGB in a separate fireproof bay.

2.1 General

Direction of rotation (viewed looking forward) = = = = (lockwise)

- Wash dimensions

- . Overall length 1,200 = 47,24 ht Overall height 0,465 = 16,31 in . Overall width 0,512 m 24,09 ht
- Approximate weight of complete engine : 269 %b (122 kg)

3.2 Design Crerecteristics

The engine comprises :

- a single-stage axial compressor
- a centrifugal compressor
- an insular combustion chamber with centrifugal fuel injection and ignielon
- i Two-stage axia) turbine driving the compressors
- a single-krage free nower turniné
- A hydraulic governor using fuel as the mutire fluid, comprising :
 - . a free functions governor maintaining constant Mf by modifying the Mg sethering of the gas generator governor.
 - a get generator governor (untrobling the fuel flowrate

4 TRANSMISSION SYSTEM DATA

The main transmission system components driving the main and table recent are the following:

- engine-ra-MCB coupling shaft with hydraulic pump drive pulley

. .

- -awain ye≱rbox (MQS).
- two-piece tabl drive shaft
- tai: gearoox (TCL).

In power-on thight the roto: turns at a practically constant speed of 394 rpm. At this speed the transmission components rotate at :

- 42452 ram for the free power turbine
- 6125 rpm for the engine-to WCE coupling shaft and the cail rocor drive shaft
- 2086 open for the tail rotor.

R

S FIREL TANK CAPACITY

The second second

Fuel Quantity	Ligres	US Gal.	UK Cal.	kg	1 lb	kerarks .
Total	540	143	119	427	. 940	Specific gravity :
Usable after illumination of low level flight	ဆ	15.8	13.1	47.4	104	D.79
Vnusable	1.25	0.33	0.28	1	2.20	

	CONVERSION TABLE GAUGE READING - CAPACITY/MC:OHT				
Graduation	Liereş	US GAN.	UK (A).	Eg	7⊪
10 9 8 7 6 5 4 3 2	540 486 432 178 574 770 716 162 108 54	143 129 184 100 86 74 57 43 29 14	119 107 95 83 71 59 48 36 24 12 0-0-6	427 384 342 294 356 213 373 128 61 43 0-2,3	940 446 752 658 564 470 376 287 188 188 94

6 HYDRAULIC AND EMPRICATION SYSTEM (APACITIES

The hydraufit and lubrication system capacities are given in the full point table :

	Litres	US Gal.	UK Get.
MCB Nubrication system	6.5	2.7	1.4
TCB lubrication system	0.33	0.08	0.07
Engine Tubrication system	6.2	1.64	1.36
Hydrawiik System	3	0.79	0.66

S FUEL TANK CHANCITY

Fool Quantity	Littres	US CAI.	UK GAR.	19	16	Remarks
Total	340	143	119	427	\$40	Specific gravity ;
Usable after i)lumination of las- level light	đa	15.4	13.1	47.4	104	D.79
Chus m ble	1.25	0.33	0.20	1	2.20	

"	Su	COHVENSTO NGE MEACING • C	H 'ABLE APACITY/METGHT	المقا	<u>(0.79</u>
Greduit (an	Lirres	US Call.	uk Ça1,	kg	16-
10 9 8 7 6 5 4 3 2	540 486 432 378 124 270 218 165 108 54 0-3	143 129 114 100 86 74 57 43 29 14 0-0.6	119 107 95 63 71 59 48 36 24 12 0-0.4	427 384 342 199 256 213 171 126 85 43 6-2.3	940 846 792 658 358 470 375 282 488 94

6 HYDRAULIC AND CURRECATION SYSTEM CARACITIES

The Hydraulic and lubrication system capacities are given in the following table :

	Litres	US Gal.	UK Ca1.
M.G.B. Dubrication system	6.5	1.7	1.4
F.C.S. Jubrication System	D. 33	0.08	0.07
Engine obrication system	6.2	1.64	1.14
Pvdrac4nc ,8ys16m	_3	0.79	0.66

9Z-1Z

580T29L7<u>.1</u>

COCKPIT

This Section is customized

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92-12 Page L

<u>5607104 7.2</u>

MARHING-COURTON-ADVISORY PROLE

This Section is customized

SECT104 2.3

POWERPI ANT

1 pésceipiloe

1.1 Inscallation

The engine is magnified at the top of the body structure in a fireproof bay. It is installed aft of the main gearbox, so which is is connected by a shaft wounted between two flexible couplings.

1.2 Brief Description of the Engine

The yogina is a free power turbine design.

The gas generator supplies power in the form of knowick energy to a "free" turbing, which converts it into the methanical energy required to fly the helicopter.

The engine comfists of five separate interchangeable modules :

- Axial Compressor Module

Pounted at the forward end of the engine, companying a single-stage axial compressor.

- Cas Comeracor Module

Centrally Istated, coeprises :

- . a centritugal compressor
- a combustion chamber
- , generator turbine drying the compressors.
- firee Turbine Nadule

At the aft end, consisting of a turbine wheel and shaft.

- Reduction Cear Module

Reduces the Tree surbine speed from 41586 apa to \$000 apa

- Output Shaft Mccule

Iransmits engage power to the main gearonx and accessory drive couplings.

2 DIL SYSIEM

The empire includes a Self-Contained lubrication system with an excepnal oil cooling system and oil tank.

The lubracation system basically comprises the following .

- Gil tank
- 0il cooler
- Pressurizing pump
- Three scavenge pumps
- Oil filter assembly (filter, bypass valve, clogging indicator)

Oil system monitoring is ensured by oil temperature and pressure indicators. In addition, the Warning-Caution-Advisory Pamel includes lights that Illuminate to indicate:

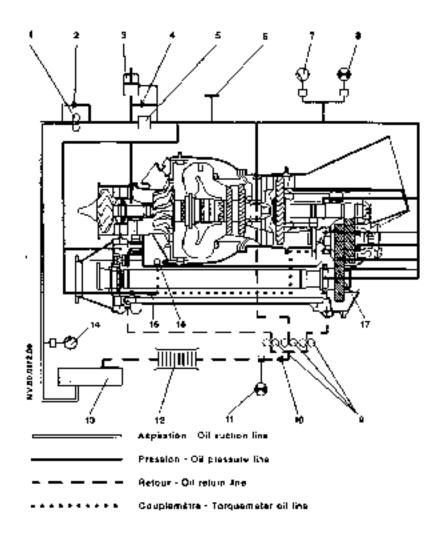
- minimum oil pressure
- metal particles on the magnetic thip deterrors.

KEY TO FTAIRE

OLL SYSIEM

1 ter	DESCRIPTION	Į (#	овусктрутом
123456789	Pressurizing pump Pressure relief valve Pressure relief valve Progotog indicator Rypace valva Oil filter Pressure tap Oil pressure indicator Minimum oil pressure light Scavenge pumps	10 11 12 13 14 15 16	High-return valve Chip detection light Oil cooler Oil tank Oil respendence indicator Yenquencter oil jet Torquencter Torqueneter

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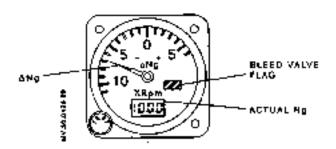


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7.3

89–17

5 6M6 2MP1CATER



This fastrument displays several indications :

5H0 -

The pointer shows the difference between the actual Hq value and the rag at MAX T/O PMR*, computed as a function of although and outside air temperature.

The pointer on graduation for indicates that the actual Mg is equal to the computed fing at MAX T/O PMRs.

Gas operator speed

The actual Mg is shown as a digital value (in percentage).

- Bleed <u>value position</u>

A flug on the instrument indicates the position of the bleed valve t

. Black flag : Valve Closed

. Green and yellow hatched flag .: Valve open

A test push-bactom is used to (heck the instrument operation. In "Test" mode, the "may at MAX T/O FMR", computed as a function of external factors. is displayed as a digital value in the window, and the SMg pointer noves and stops at Pern.

7.3

350 BZ

SECTION, Z.A.

FUEL SYSTEM

1 FRIEL TANK

Fuel is contained in a spin-mobbled pulyamide fuel call located by the body structure beneath the transmission (ed. It is equipped with a gravity refuelling Spout on the LH sade of the aircraft, as well as a vert line and a water bleed valve.

2 ENGINE FUEL SUPPLY SYSTEM

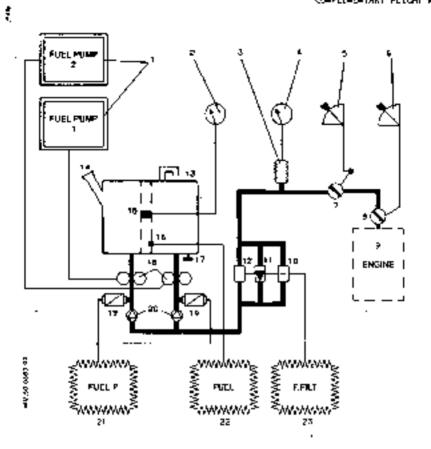
Fuel is supplied from the fuel cell to the engine through the following components in Luru :

- two booster pumps at the bottom of the fuel tank
- a fuel tilto-
- a folicer bypass walve.

3 FLEL SYSTEM CONTROLS AND MUNITIONING

The following spekpit provisions are available to the pilot :

- a fuel flow control to meter the fuel on engine (tarting
- a typ) shutoff lever that accurates the shutoff valve in the engine fuel supply \$9518m
- a fue) contents gauge
- a fuel pressure indicator
- a "FUFL" light that illuminates to increate a low fuel level in the tank
- a *F. FILE* light that billuminates when the pressure drop across the fuel *ilvas exceeds 200 mb. 本 シタ さんま 発光・ 発達性
- a -FUEL P.* light that illuminates when the fuel pressure is lower than 200 mb at either pump or both pumps.



ITEM	DESCRIPTION	TTEM	0ESCATPTCON
1 2 3 4 5 6 7 8 9 10 11 12 13	Booster pump push-buttons Fiel contents indicator Fuel pressure transmitter Fuel pressure indicator Fuel shutoFf lever Fuel flow control lever Fuel flow control lever Fuel flow control salve Engine Differential pressure switch Filcer bypuss valve Fuel tank vent	14 15 16 17 18 19 20 2) 22 23	Refuelding spent Fuel Contents gauge Fuel fow level contactor Fuel tank water bleed valve Booster pump Pump pressure switches Check valve Rooster pump failure warning light Low fuel level warning light Fuel filter clogging early warning light

\$60° EQN 7.5

POTORE AND TRANSMISSIONS

1 ACTORS

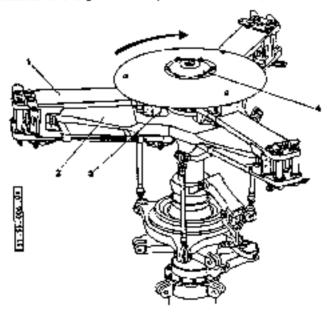
1.4 Heim coton

The bain retor beed and sheft branchib M.G.S. notation and flight controls settion to the main rater blades, its wheed from the top. the cash retor burns alookwise.

The STAGELEK type spell-rigid main rotor head is order from the entering late from a shipping of threat bearings, salf-light topicaling pearings is liquid all conventions; bearings and light testion systems to be allemented.

The three earn notor blacks of the glass-restning hate flexible construction are attached to the notor bub through flanges (1) and star (2). Pitth varietion is achieved through distortion of elastoner (type (3).

The without an elegating device (4) mounted in centre of the notion head complets of a weight specifiating between three apriling fitted L201 scent



89-L7

1.2 Jail Rotar

The two-black tell rator is wee-see sources on the 1 G S. The tall rator blacks notate enti-clockwise as viewed from the right eight of the eight eight of the eight.

Z TRANSMISSIONS

The pranchips for eveten congrete of :

- engine-to-main gearoom coupling system
- main peerbac 4 M. G.S. 7
- tall rator onlye shaft
- tw://pearpox (7.6.8.).

2.1 Engine-to-H G B, Coup!ing

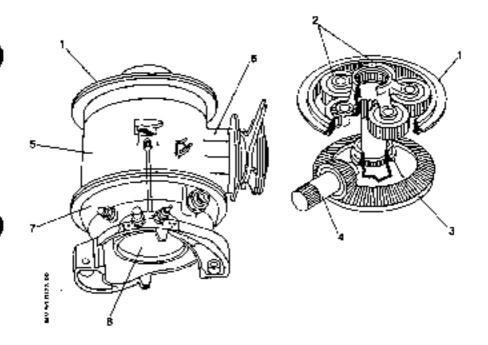
It transmits engine power to the 4.6.8, through a shaft and flex-bia coupling turning inside a flamet coupling tues. The whaft critical the 0.6.8. Input coupling by seems of a pulley used to drive a hydraulic pure.

2.2 Harry Geambon (H.G.S.)

The main gearnow is designed to transmit engine power to the well reported to medice the notation exect.

The M.G.S. consists of three interchangeagle noticing :

- an epicyclic neauction gran radule (3) with (five planet gears (2) providing a 4-33%, neauction ratio);
- a benefit reduction gear rocule with a ring gear (3) and pinion (4)
 providing a further 3.59.) reduction ratio , this decyle is hower in
 two casings ;
 - main cacing (6) supporting a power takeoff coupling (6).
 - . "Over coming (7) with M.C.B. mounting provisions .
- a fubrication wodule (8) attached to the lever casing.



The gears and bearings are lubricated by a pressurized out system. The hottom (7) of the WCB casing is used as an will tank and houses the pure.

The pump draws the oil through a strainer and forces it to the oil coolers. After eacing, the oil flows through the main filter to the oil jets. A hy-pass value mounted on the main filter allows the oil to flow to the main gearbox when the filterung elements are clopped.

Lubrication of the MCS is monitored through :

- A pressure switch (Quasing the "MCO P" light to illuminate on the warming-Caution-Advisory panel when the pressure drops below 1 bar (84-50 psi)
- a therma? Switch Causing the "MCB. I" light on illuminate on the
 Marming-Caution—advisory panel when the temperature reaches 105°C
 as optional equipment on MCB. oil pressure and temperature indicator
 can be fitted in complement to the Jubrication monkturing system.
- a magneric plug that causes the "MOR CHIP "light to illuminate when metal particles are present.

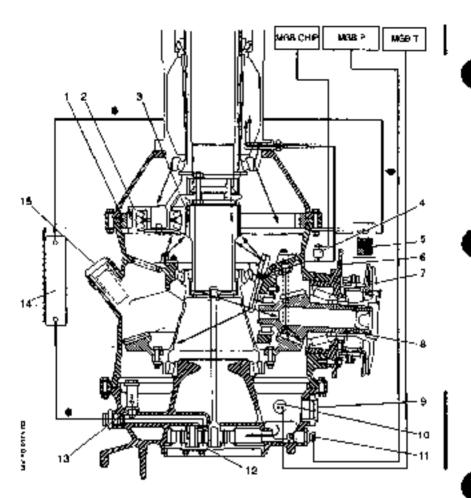
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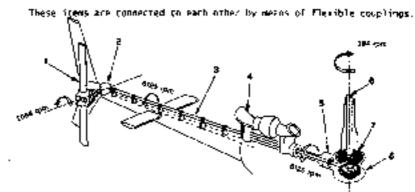
LTU	DESCRIPTION	ITEM	DESCRIPTION
1 2 3 4 5 6 7 8	Epicyclical reduction gear Planet gear Sun gwar Low pressure switch Dil Filter and Dypasa Power input module Rotor brake assembly Benel pirtor	9 20 31 12 13 14 15	Oil level sight Oil temperature switch Magneths plug Oil pump Pressure relief valve Oil cooler Oil filler cap

7.5

The tail rotor drive system transmits rotation from the engine rear power takeoff to the tail rotor.

In consists of two stars .

- a forward short shaft at the engine output
- a long shaft supported by five ball bearing assemblies .



Twil rotor Tail gearbux Tall rotor drive shaft Engine	: 5 kotor brase 6 Main motor head 7 Nain gearook 8 Oil pump
---	---

2.4 Tail Courtson (#C#)

The TQB is a right-angle drive that steps the rotational speed from di2s down to 2006 rpm.

It is splash-lubricated and is provided with an oil level sight.

2.5 Rotor Brake

The rotor brake is markanically controlled by the LH lever on the cooksit control quadrant

When the lever as FORMARD, the recor brake is released : when the lever is AFT, the retor brake is applied.

On brake application, the lever causes a disphrage spring to compress, thus keeping the friction limings under constant load. A return spring brings the device back to the "brake released" position when the lever is mayed forward.

SECTION 7 6

FLOOR CONTROLS

The filight controls are used to fly the relicopter through vertector of the pitch angle of sain and tell naturables.

The besid singraft is fitted with controls at priotic station (R.H. seat). As an optional item, the aircraft can be provided with deal controls if flown with a copilist. These controls can quickly se removed for transportation of long leads inside the cabin.

The fillight controls consist of three channels -

- a fateral and fore-and-att cyclic prior charrel
- a collective pitch channel
- ह प्रक्रू जेक्क्का,

The main motor controls are of the right type (control rod) and the tail recondants are mixed (ball type control cables and rode).

Three realis cylinder serve-controls whose piston red is integral with the N.G.B. directly operate the sussiplate four in interal, one in fore-and-aft! These serve-controls alice the attention to be flown security in the event of a ryonaul's supply failure.

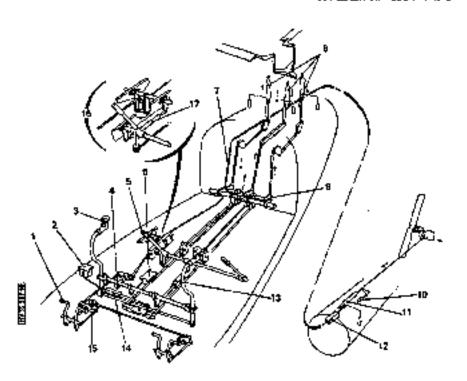
A spil report serve-control respects on the spil beas actuates a rod which controls the tail retor colden believants. In the event of a Pydraulic system failure, a label-companieting serve in the byli retorization limits the year occasi operating load. The hydraulic accumulator that supplies the compensation system may be depressurated by means of a MYD. TEST pushoutton.

The esking unit silous exeration of the cyclic and collective oftah controls expenses y and without interaction.

When the simmer's is fitted with the optional autobiot each channel is completed by the following .

- for the pitch, and not it channels :
 - , an electric actuator
 - . I trita acquater
- (or the year channels :
 - . pr electric ectuator
 - a collective pitch = yes coupling system
 - en elaphic rod
 - , an adjustmole injection lock on the decais
 - peris i novement detector.

COMPLEMENTARY FLIGHT HANNAL



[ter	DESCRIPTION	[tem	0ES0717710N
\$	Yes control petals Roll shanne? this actuator Cyclic stick You severent detector Cylicyclical lease Picch channe: this actuator BailFlaw control Morn serve-units Mixing unit	14	Load-compensating serva Year sprice upits Tear channel actuator Pitch channel actuator Roll channel actuator Page: friction lock Collective pitch-year doubling Electic roc

Opcional autopillot

Finght Control Linkage

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7.6

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SECTION 7.7

<u>HYDRAULIC_SYS**TEM**</u>

) GENERAL

The hygraphic system reduces the pilot's workload by providing hydraulically assisted servo-controls to actuare the flight controls,

The total system fluid volume 's i hirres (0.79 b5 gal. or 0.66 of gal.) up to the maximum level mark on the reservoir.

2 SYSTEM DESCRIPTION (Figure 1)

The hydraulic system basically includes the following :

- A gear your (20) driven by the main gearbox.
- A regulator unit amunited on the RH side of the W.Q., contenuing;
 - , a pressure regulating valve (19)
 - . a pressure switch (L7)
 - . a filter (18)
 - . a solenord valve (16).
- A hydraulic reservoir (21) supplying the pump Three single-Cylinder main servo-controls (1) (2) (3) driving the nonrotating star. Each servo-control is equipped with a safety system compression :
 - . a hydraulic accumulator (4)
 - , a paym—return valvo (5)
 - , a solenpid válvé (6).

In the event of a hydraulic pressure failure, this system provides hydraulic assistance for sufficient time to enser a flight configuration with acceptable control operating loads.

- A single-Cylinder yaw serve-control (10) driving the tail rutor control rod. In the event of a hydraubic pressure failure, a load compensacing system is provided to actuate the control rod with acceptable yaw peda operating loads : this system comprises :
 - . a hydraulic scaumulator (4)
 - a non-return valve (i)
 - , a pressure-dree solenoid valve (8) on the accumulator
 - . a servo compensator (9)
 - prassure relitef valve (7).

The mated system operating pressure is 40 ban.

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3 SYSTEM CONTROLS AND MONTHFAIRS (Figure 4)

The prior is informed of hydraulic system fault conditions by a red "HYD" lim-pressure marning light (15)on the Narming-Caution-Advisory Panel, and by an aural plarm (14), both of which are accurated by the pressure switch (17) on the regulator unit.

A switch (11) on the collective pitch lever (12) can be used to run off all hydraulic power by upening the three splenoid valves on the main retor serve-controls to depressurize the system.

A push-hutron (13) on the control consule is used :

- to test the hydraulic accomplacers by opening the regulator unit solenoid valve (16)
- to depressurize the load compensating servo (9).

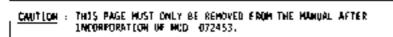
The hydraulic system filter, located on the regulator unit, is finish with a clogging indicator (20).



K A

3 SYSTEM CONTINUES AND MONITORING IFIGURE 1;

Do not Lake into account the blocked filter warning light check.



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Page Z ≜RC≠

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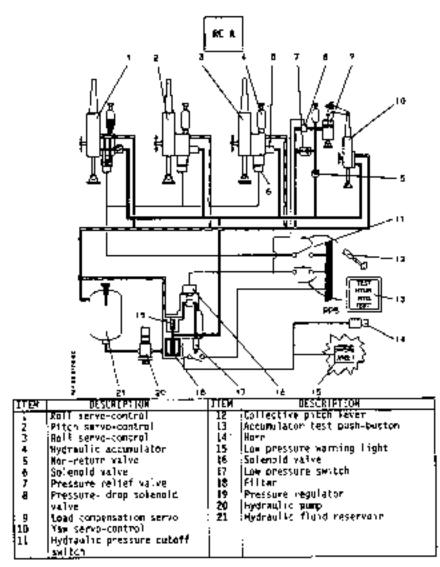
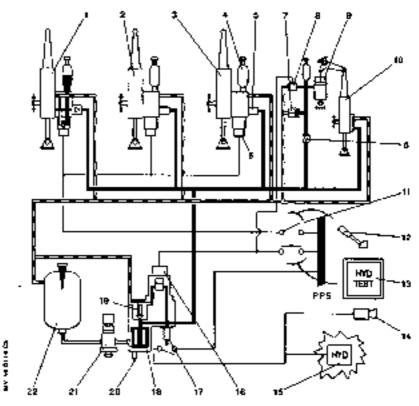


figure 1

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TTEM DESCRIPTION IIE . DESCRIPTION Roll servo-control 1 12 Collective pitch lever 2 Pitch serva-control L ACCOMPAGE test push-bucton 3 Roll Servo-control 14 Marn 15 Mydraulic accumulator 4 Low pressure warming light 5 Non-return valve 16 Solenand valve 6 Solenoid valve v Low pressure switch Ţ Pressure relact valve 18 F11tar Ę Pressure- drop solemoid 19 Pressure regulator 20 21 Clagging indicator oaloe Hydraulis pump 9 Load compensation servo 10 Yew servo-compros ZΣ Hydraulic fluid reservois 11 Hydraulic pressure cutoff Seitch

Figure 1

350 82

7.7

SECTION 7.8

1 - 00 POMER SYSTEM

1 OEVERU

DC power is provided by a stafter-gamerator and by a 15 emp-to pufferrounted storage battery

A second identical storage bettery may be imptalled as optional equipment.

An external power receptable on the R.H. side of the pinchett new be used to excell the surcheft electrical system from a 28 NDC ground sower unit.

The generator and the battery are coupled to the distribution but by means of line contectors, which can only block if the ground power unit is discontected.

2 CATERNAL POWER COROUGE

The ground power unit is coupled to the privary distribution bus by sears of its contactor when the following conditions are rest.

- · electric power is swallable to the externel power receptable
- the "MASTER Sel" pushbutton is released
- the "EXT PAR BATT" purhoutton to decressed.

The IGENI and 64171 Highes and 11 km yeared.

The battery and the generator are isolated from the system until the ground power until is disconnected.

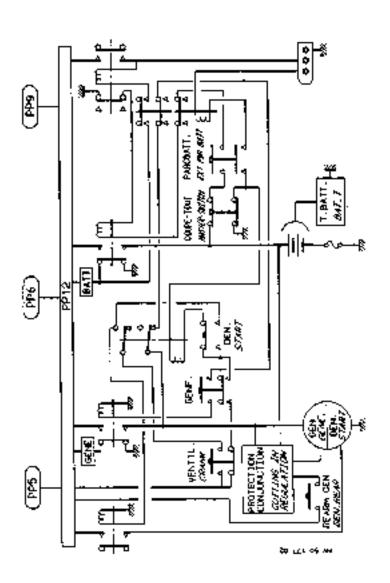
3 BATTERY CERCUIT

The battery is coupled to the privary distribution bus by means of its contactor when the following conditions are wat :

- electric power its rob everlable to the esterne) power receptor e
- the "NASTIF OF purbutton is referred
- the "Dit PM BATT" pushbuston is orgaged.

The pattery may be isplated from the aircraft power systam either marketly (by means of the "MASTER SAT or "EXT PUP BATT" exittines (or automatics) by the commenting a ground power unit)

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7.8

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4 CEMERATIR FIRCLIT

The generator is coupled to the primary distribution but by means of its contactor when the following conditions are med :

- electric power is not available to the external power receptable
- the "MASTER SM", "Chamid" and "STAGT" bushbuttons are released
- the rCCM+ pushboccon is engaged.
- the generator voltage exceeds the battery voltage by at least 0.5 Y.

The generator may be isolated from the birthaft pawer system :

- namually by disengaging the "CEN" pushbutton or by procking the "NASTER SAT, "CRAME" and starter pushbuttons.
- Applicably if a reverse current is detected from the bactery to the
 generator, if a ground power unit is connected, or af the generator
 voltage exceeds 31.5 V.
 A push-buttor is provided to accempt reserving of the generator.

when the generator is isolated, the "GFM" light illuminates on the Warning-Caution-Advisory Panel.

S ELECTRICAL SYSTEM CONTROL AND MONITORING

- S.1 (ontrola
- S.1.1 Console Pushbuggpgs
 - "MASTER SM"
 - *(#AW**
 - "CEN"
 - *RESET*
- 5,1.7 Fpel Flom Control Lever Pushbutton
 - "STAKT"
- 5.2 Indicator Lights

The following lights are included in the barning Caution-Advisory Panel:

- Red warning light : "BATT To - Amber caution lights : "BAT"
 - -CEH-

5.3 Panel Indicators

- Ammeter
- Voltmater

SECTION 7.8

2 - AC POWER SYSTEM

1 CENERAL

The AC pawer system is an optional installation required when the circular is equipped with an automatic pilot or with tertain typosopic instruments. Two different types of anstallation are available, depending on the obser required.

AC power is supplied by a static invariant from the DC power system. The inverter is located beneath the cabin floor. Performance specifications include the following:

250-VAIA.C power system

- Input voltage	28 VQC
- Output voltages	115 and 26 VAC
- Frequency	400 Hz
- Power nutput : 115 VAC	150 VA) limited to 250 VA
26 MAC	150 VA)

10-VA A.C. DOWER SYSTEM

- Input voltage	28 VDC
- Output voltage	26 YAC
- Frequency	400 Hz
- Fower autput	30 VA

2 <u>DESCRIPTION</u> OPERATION

The state inverter is supplied from bus bar PP9, through a fuse (coated on the SH side fuse panel (16-mmp, fuse for the 250-VA power system, 2.3-mmp, fuse for the 10-VA power system).

The system is switched on by means of the "SMVER" push-outean located on the control panel.

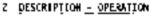
AC power distribution circuits are projected by fuses located on the LH side fuse panel.

An amber causion light on the instrument panel indicares a failure of the λ C. power system.

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AC B



So not into account the amber warning light on the instrument panel indicating an ac generation failurg.

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PETOT-STATES SYSTEM

It consists of :

- 4 total pressure circuit
- . A statue preseure curcuit
- Three filight instruments
 - . In all reports into the term
 - , a ventical speed indicator
 - . Mit & Palemeter.

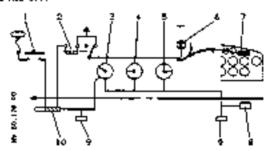
The static pressure port is provided undermath the cabin, allightly as the laft of the electric central line. The static pressure circuit supplies the three instruments.

The total pressure port is mounted on the nose slightly to the left of the sirement centraling. It may include an optional heating resistor operated by the "filiph" pushbutton on the control console. A light illuminates on the kerning-Cautism-Advisory panel:

- · when the pushbutton is no seese.
- in the event of failure of the heating realistor.
- In the event of power supply failure.

The total pressure carbuit supplies the singless indicator

A bleed using provided on each pressure circuit allows condensation water to be drained off.



[tem	DESCRIPTION	l ter	DESCRIPTION
١,	"PTTOT" pushbutton Minding Air speed traitgetor Patty-of-of-leb indicator Ait feater -Pillof" Inght	9	Harring claution-advisory pare? Static pressure port lights bleed values P[TOT head in the eptional neater;

AUTO-PILOT ARR DATA CIRCUIT

when the Aircheft to titled with the euto-citot, an oir date unit supplied with static and total pressure complements the capillatia system.

SECTION 7.10

AFR CONDITIONING

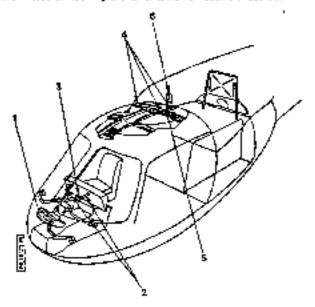
1 CABIN VENTELATION

Iwo separate directité provide ventrilation to the cabin.

- Front vantilation
The air taken those the front cabin area flows through two ducts and is alstributing to the creation. A guillette on the inathurent panel controls opening and adjustment of the ventilation circuit.

- Overhead ventilation
The pir better from the upper cabin since through a raw air accords then

circulated to the air outlets via the structure puels. After the difference by opening and or tentation of each air outlets.

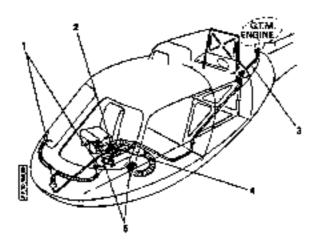


1tes	DESCRIPTION	Iben	DESCRIPTION
2	FRONT serator FRONT ein autlete Control pull-knob	5	Overhead air outlets Ventriation outl Pan air scoop

2 HEATING " AND DEPUSTING SYSTEM

These systems provide cabin heating and sinderness devicting by mixing of out P2 air taken from the engine with air taken from uncer the floor.

The pin mixture is concluded through but requests districts to the heating diffusing provided under the front seets and to the denisting air diffusers. Two manually operated valves sourced on the PZ lines are used to control air distribution



[te	DESCRIPTION	1 tages	DESCRIPTION
1 2 3	Descripting air diffusions Descripting control valve P2 air ducte		Heating control valve Heating diffusion

Optforal

7.10

RC

1 CABTH LIGHTING

No take im account :

"The rear dome hight is supplied from the battery direct busbar and controlled by a switch on the overhead panel (emergency lighting)."

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SECTION 7.11

LICHTING

1 CASEN LICHTENG

The caban highling consists of two dome lights provided on the everhead panel, one at front available to the crew and the other at rear for the passengers.

Each dome light compresses was salvel diffuser units. Lamp lighting is controlled by ratating the diffuser.

Each front diffuser unit includes a diemer mounted on the averheed panel.

The cockpit done light is directly supplied from the battery through two circuits and protected by a fuse. The cabin done light is supplied through one circuit and protected by a fuse on the RH side fuse panet.

The rear flowe light is supplied from the battery direct busher and concrolled by a smitch on the overhead panel (amergency lighting).

2 INSTRUMENT PANEL AND CONSOLE LIGHTING

The instruments are lighted by two separate circuits :

- Lightwog direuit 1 provides lighting to :
 - . The instrument panel indicators from a light generator
 - . The stand-by rompass
 - . The Chermoneter
- Lightisch dirauit 2 provides lighting to ;
 - . The pust-builtons
 - . The potentioneters
 - . The radio control units

The instruments are lighted from a light generator made up of a halogen lamp and a loom of optical fibers each component of which is connected to a light diffuser arranged close to the instrument to be lighted.

The INST. LTS 1 and INST. LTS 2 push-buttons control the inghting system. The "COMSOLE" and "PIL. 1981, PARLY potentiometers control the brightness of the laghting circuits.

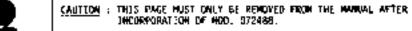
AC D

5 LANDING LIGHT

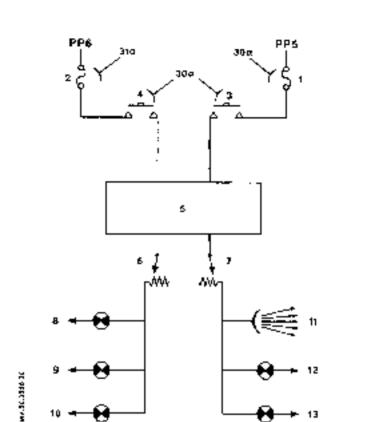
. The 450 W searchlight is located beneath the formand cebin on the AM side,

6 TAKI LIGHT

The 150 W searchlight is located beneath the forward cabin on the 14 side.



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THEM	DESCRUTPTEON	JTEN .	ORSCALPTION
3 6 7	INST. 1TS 1 fuse INST. LTS 2 fuse INST. LTS 2 fuse INST. LTS 2 push-builton INST LTS 2 push-builton Light diamning unit COMSOLE potentiometer PIL, INST. PANFI potentiometer	11	Console lighting Push-button Laghting Radio common unit lighting Light generator The mometer lighting Stand-by compass lighting

Instrument panel and compole lighting circults

7.11

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3 POSITION CHAPS

the aircraft is ficted with three position lights :

- one red light on purt end of the horizontal stabilizer
- one green light on starboard end of the horizontal crabilizar
- one white light at rear ond of the fuselage

The circuit is protected by two PPOS. LT. fuses.
The installation is controlled by the PPOS. LT. push-buttos on the control console.

4 ANTI-COLLISION LIGHT

The engi-collision light fitted at the top of the vertical fin indicates the aircraft's presence at a great distance.

The circuit is protected by the *A/COLL LTr fuse.
The anti-collision light is controlled by the push-button on the control console.

S PARCHAS LINAN

This light wakes approach and landing by might easier. The 450-W landing light is mounted on the RH side, below the cabin

It is controlled by a LAHO LIGHT push-button on the control cansole and is protected by two faces (LAHO, LT, COMT, and LAHO LIGHT) provided on the RH side panel.

б <u>гахі і Лонт</u>

This light improves the safety of the helicopter when flying near the ground.

The 150-W (axi light is mounted on the LM side, below the cabin-

The light is controlled by a TAXI EIGHT push-button provided on the control R console and is protected by the TAXI LIGHT fuse. R

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<u>SEÇTJ</u>ON A

SERVICING

CONTENTS

		Pages
6.1	CROUND HANDLING	
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	2 HUNDLING	1
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	1 SUELS	1
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	3 LUBRICANTS	2
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	2 OPERATION OF OPTIONAL INSTALLATIONS	
	3 AMATTON TO COLO LEGITICO	

8.0.P6

SSCT10N B. 1

GROUND HANDLING

1 EUCPPENT PENTRE

- For equing the einemaft by hard : eingle on twin handling pheels jacking leven.
- For towing the simplest with a tractor ;
 the above—sentioned equipment, plus ;
 - . A treating path by.

Z HANDLING

- Howing the relitoration by hand

On prepared ground

- . Position the ground randing what's on the mounting stude according to elected belonce.
- . Install ground handling wheels (wheels outside as int, one (wheel) &)
- . Check that wheels are convectly locked (see Batal: 4).

 Lift the electric onto its whee's using a jacking lever.

 Lock in this position with retaining gire.

On rough ground

- Use twin ground hend) ing wheels, (netw) as described above.
- Towing the helitopten with a thactor

Prepare the aircraft as above and attach the towing mable. Eleatic concepts wrapped round the undercomings front grot.

HOTE - Hendles secured to the cath book should always be used to guide the aircraft when bowed.

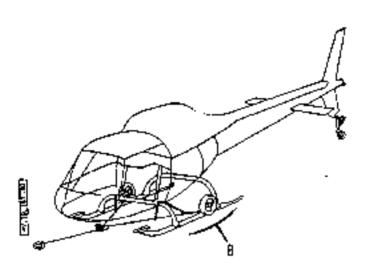
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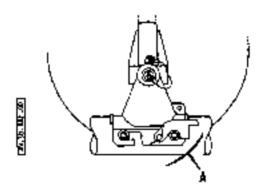
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Page 1

COMPLEMENTARY FLORE MANUAL





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SECTION 8.2

SERVICING (WSTRUCTIONS

1 FUELS

1 1 Commercial Designation of Fuels

The authorized fuels are given an rhe LIMITATIONS SECTION. The commercial designations are given in the TURBONICA Engine Maintenance k Menusi

1.2 Capacity

	Lites	U.S. Gal.	Imp.	: Kg	16	REWARKS
TOTAL FLEL TANK CAPACITY	540	143	339	: 477	940	Specific weight
HOM-CUMSUMABLE FIIFI	1.25	D. 33	Q.28	1	2.20	
COMSUMABLE FOFL REMAINING PHEM LICHI COMES ON	60	15.6	13.1	47.4	104	

7 FIRE ADDITIVES

The anti-ice additive when used shall need the reguliraments of French Specification Alk 3652 or the equivalent non-Franch specifications : M1L-1-27086 - 0.Eng. KU.2451 - PHIL1PS PFA SS MB WATO code 5748 MIL-I-85470.

The addresse is to be mixed with the fuel in the following proportions :

- Minimum concentration, by volume : . 0.035 % in a tank already filled

 - . 0.06 X in fuel to be used for refuelling.
- Waximum Concentration, by volume : 0.15 %.

If there exists any doubt as to the concentration of additive in the contents of a fec' tank, the fuel is to be drained from the tank and replaced by theil containing a known proportion of additive within the afore-mentioned limits unless it is possible to measure the concentration using a differential refractioneter.

Instructions permitting the correct concentration of additive to be obtained are given by the vendor.

3 LUBRICANTS

- 1.1 Engine Lubrication System
- 3.1.1 Engane Onla/Lowmercial Designations
 - Authorized Tubricanss : refer to Camitations Section,
 - Communicial designacions : refer to TURBENECA documentation.

3.1 7 Capacity

Empire on) tank and system capacity - 6 2 litres (1.64 HS gel or 1.36 Dep gal)

- 3.2 Transmission Components
- 3.2.1 Lubricants/Commercial Designations

The authorized "ubricants are given in the CHMITATIONS SECTION.

3.2.2 Capacity

Main gearbow (system included) : 6.5 intres (E.7 MS gal or 1.4 Imp gal) Tall gearbow (system included) : 0.33 fitre (0.00 MS gal or

0.07 Tec 021).

4 MYDIOULIS FLUIDS

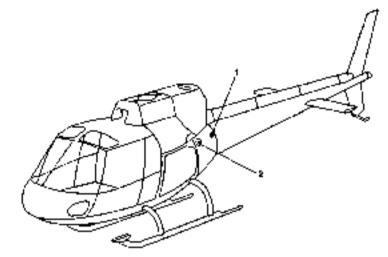
- 4.1 Hedraul's Fluids/Commercial Designations
 - the hydraulic Fluids are given in the LIMITATIONS SPCTSON.

4.2 Syscen

Total capabity of system : 3 lines or 0.8 US gab or 0.65 Imp gab. Operating pressure : 40 bur (580 pan)
The warming light situated on marning-caution-advisory panel illuminates when pressure is lower than 10 bar (435 psi).

8.2

s <u>REFUEL**LING**</u>



OFFE A 36 AA

- Place the helicopter on a level surface.
 Comment the bower earthing cable so the electro-static balance connector
 (1) on the helicopter.
- Lheck, on one fuel gauge, the quantity of fuel remaining in the tanks.
- Observe the following safety precautions :
 - . Ensure that the directalt electrical power supply is switched off.
 - . Place a fire extinguisher mean the work area.
 - , Sericily prohibic staking in the security area.
 - . Probabit the use of any means of lighting not Conforming to the rules of safety.
 - Ensure, during refuelling (or defuelling), that the bower (or the defuelling unit) is connected to the alreraft by the electro-scatic balance connectors.
 - Strictly probled draining of fuel tanks, whether partial or rotal, inside a hangar or shop.
- _ till the tanks, munitaring the quantity of fuel delivered on the bower flowmeter.
- Position and lock the faller plug (2), using the key.
- Disconnect the bower earthling connector from the aircreft electro-static halance commetter (1).
- Check that the difference in the abscraft fuel gauge readings corresponds to the quantity of fuel delivered and determine the corresponding meight.

<u>Refuelling with rators turning</u>

MARNING : REFLELLING WITH HOTORS TURNING SHALL BE PERFORMED ONLY AFTER PRICE AGREEMENT IS GIVEN BY THE COMPETENT AUTHORITY IN FOMPLIANCE WITH OPERATIONAL REGILATIONS.



- Strictly comply wish the instructions defined below.
- Head 25 (raft into forward wind sector \pm 45° if wind above 10 kc.
- Lock the collective witch lever in full low pinch position.
- Check main rotor is at nomenous speed with feel flow control in flight detent.
- Limbr refuelling at 95% in order to prevent any fuel spillage.
- The pilot must have someone well in sight to signal the mechanic to stop refuelling.
 - After refuelling give the tilfer plug key to the pilot.



Refue?" ing with notons turning

MARNING I REFLELLING MITH ROTORS TURNING SHOUL BE PERFLYING ONLY OF FER PRIOR AGRESHENT IS GIVEN BY THE COMPETENT DUTHORITY IN COMPLIANCE WITH OPERO" LOHAL PEROLATIONS

- Strictly comply with the instructions defined below.
 Head affected that forward wing sector + 45° to vind above 10 kt.
 Lock the collective pitch lever in full low pitch position.
 Check table notion is at resine' apart with fuel fice control in flight. Setent.
- Little refuelling at 992 in order to prevent any fuel spirilage
- The print wast have comesse well in night to signal the sechanic to stap refuelling.
- After refuelling give the filler blue key to the clies.

6 DAILY CHECKS

The daily shacks must be conducted by qualified personnel. In accordance with standard aircraft practices and the appropriate manufacturer a recorporations. Information concerning the daily check, prescribed in the Meeter Servicing Recommendations, is detailed in the Maintenance Manual.

In prior to perform the checks, have the required documents available.

ff9-17

SECT104 8.3

FEST SHEETS

1 GENERAL

The test sheets are intended to sum up the checks on be carried out has flight or on the ground, with rotors turning eather after replacement of mayor components, or after an excensive operation, or turther to periodic inspections.

The test sheets are in the form of reproducable sheets which can directly be filled in by the trew.

CANTOON : SENCE THESE CHECKS ON NOT FORM PART OF MURHAL HELICOPTER

OPERATION, THEY SHALL BY CARRIED OLT ONLY BY ILLALIFIED PERSONNEL UNDER THE OPERATOR'S RESPONSEBILITY.

350 B2

LIST OF TEST SHEETS

N*0 FLIGHT REPORT N= 1 CHECKS APTER ENGINE OR MODULE REPLACEMENT. Nº 2 CHECKS AFTER MRH FREQUENCY ADPATER OR MAIN ROTOR. BLADE REPLACEMENT Nº 3 CHECKS AFTER MGB REPLACEMENT. Nº 4 CHECKS AFTER TRAIOR TAIL ROTOR BLADE REPLACEMENT. Nº4A CHECKS AFTER TAIL ROTOR DRIVE SHAPT REPLACEMENT CHECKS APTER OPERATIONS ON FLYING CONTROLS. N* 5 CHECKS AFTER GENERATOR OR ELECTRICAL MASTER BOX Nº 6 REPLACEMENT

=:

Nº 7

SYSTEM CHECKS

OPERATIONS ON ENGINE OR MODULE

 TESTS TO BE CONDUCTED ACCORDING TO THE COMPONENT REPLACED.

TREST	Fagana Removal/	таразса.	Нуфго- тесрацка)	Medale Replacement			
16-0]New Help		(Spansore)	No 1-7	No 27	Ne. 4	
Starting Ground Ruo	•	•	•	•	•	•	
Boror Filight		•	•	i			
Acceleration		•	•		•		
Riced Value		•	•		•	'	
Englist condition Power Check		•		•	•	•	
Pig at Mac. TAB PWR an Static areop check		•	•				
Employe count-Jown		•		•	•	•	

SHEET No.	RELICOPTER	FLIGHT REPORT				
U	AS 350					
DATE :	Start :		امّا	WEATHER OPE :		
CREW :	Number of leadings :		Q-	QAN : · Utrection : · Force :		
Crew Bullacı	TY WEIGHT	· - :		•	_	
F##	· · · · · · · · · · · · · · · · · · ·	- :	o	G LOCA	TION :	
MAJOR WORK CARRIED OUT BEFORE PLIGHT			REMARKS MADE BY CREW AFTER PLIGHT			
<u></u>	 	UNITS	USED			
	4 =		opplicable)			
WEIGHT	. [_	ALTITU		AIRSPEED	
	kg · lb kg · fb · l · %			m - R km/h - kt - MPB		
SPECIAL INSTALLATIONS			Walthersvisa			

8.3

HELJCOPTER CHECKS AFTER ENGINE OR MODULE SHEET No. REPLACEMENT AS 350 Engine starting - Ground run RESULTS TO BE TEST PHASES AND OBTAINDED OR RESULTS ORTAINED REQUIREMENTS LIMITATIONS ENGINE STARTING Comply with the Normal Hol OAT Procedures of the Fligh: Magraph, SECTION 4.1. - Banery voluge Voltage = 25 V Approx. D: Booser(s) gramp (30) Prossure greater than 0.4 bar Pressure : Starter ON Battery voltage ≥ 18 V. U: Check : Max. 14: 14: BA: 650° C (5.860 max, above 77**5° C**) . Other versions . 795*1 865° C Dess than 5 soc) The GEN light goes out. before Ng is 50 %. The BNG 2. laght goes out Correct Incorpora before Ne is 70 %. Саграда Incorrect Record parameters at flight dve" idlt chinz : Мя ĸ4 Tosquemeter pooter in green. aпс Fed dress. ON MEST Oil terren NC+ NR ВЗ тексоо Frage 7A-BB resnaur Synchengia yon of NR/INF Uncorrect Cerrect perinters : ± 3 apro-







350 B2

SHEET No.

HELICOPTER

CIBEKS APTER ENGINE OR MODULE REPLACEMENT

AS 350

Engine starting - Ground ryp.

_						
THST PHASES AND REQUIREMENTS		RESULTS TO BE OBTAINDED OR LIMITATIONS	RESULTS OFTAINED			
ENGINE AND FUEL SYSTEM CHECK						
Switch off bauster pumpp(s).		Ng or 44 terreting.	Cerest	leome		
Switch on : - 350 BA-BB block - Other versions : ho pumps one after the separately	uses tum	reut uperation of the 198	Certain)	Managrace		
Check injection safe system : Press the starter push Ng equal to or more	ipolice: It	togios Claus-vul	<u>Cerred</u>	Concarrect		
CHECK AFTER GÖVERNÖR REPLACEMENT						
Use the feet flow can to adjust the Ng valuation (minediately push the the "flight" detent. As soon as the Ng valuation to reduce the exactority 90 %, use the acceleration. Repent this operation more.	et. Ng : a lever inno alose - Do e lever cor ogiose she	= 70 % tring these operations, no opressor surging polar ould be heard.	<u>Certon</u>	Incorrect		
ENGINE SILUT DOWN				1		
Check the engine generator cossi-down time, after 30 seconds' stabilization at Ng between 67 and 72 %		sa-donno uppe (roda = 30 % : equal to or more : 30 sec.	Gerrica	loarred		
Apply rount brake from NR = 170 upuk		oc stopping time : espeal to too them 25 s.	Cernet	Incarraçã		
1			L			

HELICOPTER CHECKS AFTER ENGINE OR MODIFIE SHEET No. REPLACEMENT AS 350 Hover Night - Acceleration RESULTS TO BE TEST PHASES AND OBTAINDED OR RESULTS OBTAINED REQUIREMENTS LIMITATIONS HOVER IGE (S.R.) All and bleeds simple 4ft 1 Hø : OAT [Record parameters Refer to Limitusons, In-Flight Manual. SECTION 2.1 #NR® N. Ħ ₹. Feed press. Ot peed. Datterray. Me. MB * 81 Venen " Europi 3A-BB winders Frei COMPANIES. ENGINE ACCELERATION Aircraft on the ground Increase pixels from full low picch to bover (GE tlight picch) - No cagine surge Correct Decorrect ! within 2 to 3 sec. - Mia. trausient NR : more than 360 open. Correct Incerred 44. Ess than mar .44 Correct Incorport

SHEET No.	AS 350			ER ENGINE OR MODULE LACEMENT		
1						
REQUIREN	TEST PHASES AND REQUIREMENTS		RESULTS TO BE DISTAINDED OR LIMITATIONS	RESULTS OBTAINED		
LEVEL FLIGHT CONTINUOUS P Albands could to	OWER					
3000 (t. All ais bleeds she: Engine condusion of comply with the F SECTION 4.2	check					
Record parameters	. :		FID Limitusces, in Flight and, SECTION 2.1.	Hp OAT		
				H Freezi gravas.		
			REMINDER:	O4 press		
			NR = 393 rpm ± 1	NP NR		
				* B3 Version ** Except BA-BB ARRAND		
			e co s éitios , réfer 10 Manual, SECTEON 4.7	[AS:		
BLEED VALVE OPERATION CH			URROMOSCA coance Manual			
IAS : 55 kt Activate the collect lever to obtain clo opening of the ble	ising these	TRefer SECT	to Flight Manual, ION 4.1.	Correct Incorrect		

HELICOPTER CHROKS AFTER ENGINE OR MODULE SHEET No. REPLACEMENT AS 350 Level Right - Engine condition RESULTS TO BE TEST PRASES AND OBTAINDED OR RESULTS OBTAINED REQUIREMENTS LIMPTATIONS CHECK IN ALTITUDE LEVEL FLIGHT AT MAX. CONTINUOUS POWER To be performed at exual nneraumnal alcoude and high exough for the distharge valve so he closed. All air bleeds shut off. Referant Imageious. Récord parameters :] τλο [Hp . in Flight Manual, SECTION 2 I ΔNg• Ng м Facilities. Oil oress 01। প্ৰকাচ NET 33 • B2 Yesse ENGINE GOVERNOR •• Поверх В.А., К.В. ченного CHRCK At IAS - 65 kg: Noengree Hause out. Recurs the pitch from MCP. Сопис Locorrect forfull fine pilch. FMG.P light does conuhum|nace Comply with NR max liminaise. Es 2 to 3 seculiscrease pitch. No engine surge. Carred Incorrect : from re-synchronization Min. NR more than 360 rpm (NR = 395 spm approx.) to : 14 less than 14 max Max Continuous Power.

:

SHEET No. 1	AS 3		RE	ER ENGINE OR MODULE PLACEMENT A. Engine condition
TEST PHASE REQUIREM			RESULTS TO BE (INTAINDED OR LIMITATIONS	RESULTS (SETADOED
MAX. ENGINE II CHECK At IAS = 23 kt. to to reach the Ng of power. *k *** NOTE to order to exceeding timissues	crease piach the takeoff or evelo g the torque a, it may be y in obmb.	lt rau value Refer in Pi	LIMITATIONS	Hp OAT

SHEET No.		S 350		AS 350 CHECKS APTER MRH, FT ADAPTER OR MAIN BOTO REPLACEMENT Ground run - Blade track - b		
TEST PHASES AND REQUIREMENTS		RESULTS TO BE OBTAINDED OR LIMITATIONS		RESULTS OBTAINED		
Arrelation the ground. Full Inw pach. BLADE TRACK Record blade gack		Devission lower than 6 mm.				
aduct obt	krd daly rzińknego olade wack ; n base of	less th aurora	Lipse squal to or San : fe wish how LAC : 0.2 ips fe wish heigh LAC : 0.3 ips heigh LAC : 0.3 ips heigh LAC : 0.3 ips	Final result obcasterá; ips 'Tirac Number of balancing plates: Y R B		

SHEET No.

HELICOPTER

AS 350

CHECKS AFTER MRH, PREQUENCY ADAPTER OR MAIN ROTOR BLAHR REPLACEMENT Hover Flight I GE

TEST PHASES AND REQUIREMENTS	RESULTS TO BE OBTAINDED OR LIMITATIONS	RESULTS OBTAINED
HOVER ICE (6 ft)		
All air bleeds shet off.		
Rocord parameters :	Refer to Lumsundons an Hhight Manual . SECTION 2.1.	Нр СТОСНАТ СТО
		ANT'
		Y2
		14 T
		4
	i	NO.
		NR.
		* N2 Yeston ** Borepi & A-B& versese
		Fred contents
		
		 ,,
Check and, if economy,	Deviation less than 6 mm.	
adjust blade track.	Deviation instanting to the	_
Check and, if necessary: adjust unbalance.	Uptielence equal to unitess thun 0.2 ips.	Unbalance.
	:	içs Time

8.3

99+58

SHEET No.	AS 3		ADAPTER OR MAIN ROTOR BLADE				
TEST PHASE BEQUIREM		RESULTS TO BE OUTAINDED OR LIMITATIONS		RESULTS OBTAINED			
Level flight at Mac Continuous Power Altitude expual to a 3000 fc All air bleeds shut Record parameters	t. orNesst∪ban utT.		io Laminianons in Flight II. SECTION 2.1.	Hp CAT CAT			
			REMINDER: NR 1991(m±1	O Ng+			
				ж ис•			
				* B± Yorsen ** Escape RA RR various Food commun			
Check performand	e dara :		Refer to Flight Manual SECTION 5.2 (BA, BB, BI, LI) of SECTION (0 (B2)	ias:			
Record the blade to value given by the accelerometer:							
a) in stabilized lev Max. Continuo	eathghrai ns Power	B1340	e unck deviation equal to of less than 6 mm				
	<u> </u>	. yz. (a. }	lc none) : equal to or cee than 0.2 ips	ya in level flight: ips Time			

SHEET No.	EET No. AS 3		Level (Ught at Ma	MAIN ROTOR LACEMENT	BLADE	•	
TEST PHAS REQUIREM		ARTINDER OF			RESULTS OBTAINED		
b) In 43° cum, and corresponding I at Max. Contin	o level (Eght		le track deviation : equal leas then 12 mm				
		yz.(a/c-nose) - egual (c-or less than 0.35 gs		yz in 45° tucn : Ips	Time		
c) From level flig Continuous Por accelerate, alcu power, up to V	≜¢(. Iostani		rigniferant variations of the story (evel				
d) Record 5-12 p w Using an accele planed on the fit aircraft Z cater from of the pits record the who level flight at M Combinuous Por	crometer corradong ste n line, as the d's sean, story level in 100	foe i	p peak level : equal to or than 0.2 g (or 0.62 ips NR 394 rpm). 5 : If the resulties incorrect, i.e. of the level is togher than 0.3 g : the adjust- ment of the rathin ann-vibrators is 10 hz. checked.	Cartect	Becorned		

ς

SHEET №.	AS 350		ADAPTER OR MAIN BOTOR BLADE					
TYST PHAS REQUIREM			RESULTS TO BE OBTAINDED OR UMITATIONS	RESULTS OBTAINED				
CHECK OF MAZ Altitude greater the In autorotation, we piach lever against atop and LAS = 65 Progressavely ance factor, if necessary num to the left), in the ronar speed, tranthe aural warning the aural warning the Altitude (BA)	an 5000 ft th collective flow piech ikt: case the load y (grall up or inder coleting issently, to breshuld (82)	Max No vib	REMINDER . 12 . 13 . 14 . 15 . 16 . 17 . 18 . 18 . 18 . 19 .	Correct Incorrect Contract Incorrect				

SHEET No.	AS 39		ADAPTER OR REPI Laves (light of Ma	ER MRH, FREQUENCY MAIN ROTOR BLADE LACEMENT IS, Continuous Power and Origh abitrade)		
YEST PHAS КИДЦПКЕМ		RESULTS TO BE OBTAINDED OR LIMITATIONS		RESULTS OBTAINED		
Recommended ac the type of operation level flight at Max Power. All that is about 10th max thinade community of All att bleeds shot Record parameter.	conding (non.) Condinuous MO II (er panhie wich strains) off.	Мали	m Limitacons in Flight at, SECTION 2.1. REMUNDER: NR . 393 rpm ± t Refer to Plight Manual, SECTION 5.2 (B.A., B.B., B1, L1) or SECTION 10 (B2)	Hip OAT		

SHEET No. 2	AS 3		ADAPTER OR REP Lev# Night at M	EX MRH, FREQUENCY MAIN ROTOR BLADE LACEMENT SE. Continuous Power and (high aidiede)			
TEST PHASE REQUIREN			RESULTS TO BE OBTAINDED OR LIMITATIONS	RESULTS OBTAINED			
Record the blade to the value given by a/c nose steeleron	the						
a) lu statiluted lev Max. Continuo	el flaghi at us Power		de mank devission (2003) Floss show 12 nom				
			v/c nose) equal to or less D.35 ips	Y? in level flight	:		
b) da 30° dana, auti	he speed	Nos	eignificant variation of				
corresponding t at Max. Compa	o level flight	the	ahratory (evel	Correct	Inecreta		
c) From level flugt Continuous Pow at constant pow VNE.	er, accelerate,		ignifictat variation of cibratocy level	Cerreit)	Incorrect		
			· f :·				
			•	÷			

SHEET No.	HELICOP	ТЬЖ	CHECKN AFTE	F MGB REPLACEMENT				
3	AS 3:	50	Ground our - Hover flight					
TRST PHAS REQUIREM		RESULTS TO BE OBTAINED OR OMITATIONS		RESULTS OFFAINED				
State engine as pro- the Normal Proces Pligge Macoal, St	dures of the	for Ni less th	P warning lught goes our ? an 200 rpm (warns) an 110 rpm (cold)	Carract Lournet				
Engage "HORN"	pustvibuitom	sound broce	Warning continuous for NR between 250 50 rpm.	Carrent McGerreet				
Perform 5 to 10 to fugin (GE (6 ft) a approaching the m takeoff weight. Historio Pilight Ma SECTION 5.1.	t a weight washmuch		io Ulmitations in Flight at. SECTION 2.1.	Hp OAT ARe' Ng Id S MGD od long. MGB od poss. " NR B2 Verson " Optional Peet comeds				
Engune and room: Roter brake from		MGB MGD MUST		Correct Becurrect.				

SHEET No.	HKLKOP	TEK		TRH OR TAIL ROTOR SEPLACEMENT			
4	AS 35	50	1	Lrum - TRH wathelance			
TEST PHAS REQUIREN		RESULTS TO BE OBTAINED OR LIMITATIONS		RESULTS OBTAINED			
CHECK OF TRE UNBALANCE Aircraft on the ground. Paul low puch. Dicease NR up to 270 rom				•			
Record unbelance value		tiդո	abalâuict is gasater Chao s, do not increase MR oud 270 rpm.	ips These			
Make required con	ceconos.		-	Chardwise helencing: Recordings Sector A Sector B Spanwase balancing: Recordings Blade 1 Blade 2			
		270 c notes Right The s shall the va room	o uphylance priNR with procisities than I lips, ase gover speed up to title, correction to be applied by a compromise between aloes found at the two speeds to obtain as, lance of less than 0.35 lips.	ips ·			

350 😥

SHEET No. 4 A	AS 3	- 1	SRA	TER TAIL ROTOR DRIVE AFT BRYLACEMENT MY drive shaft balandag				
TEST PHAS PEQUIREN		0	NESULTS TO BE OBTAINED OR UMITATIONS		RESULTS OBTAINED			
Arcraft on the gre Full low pitch. Record the unbala value		Vebalan	ce leas dhun 0,8 ipa.	Unbelle		Time		
•								
	•							
		:						

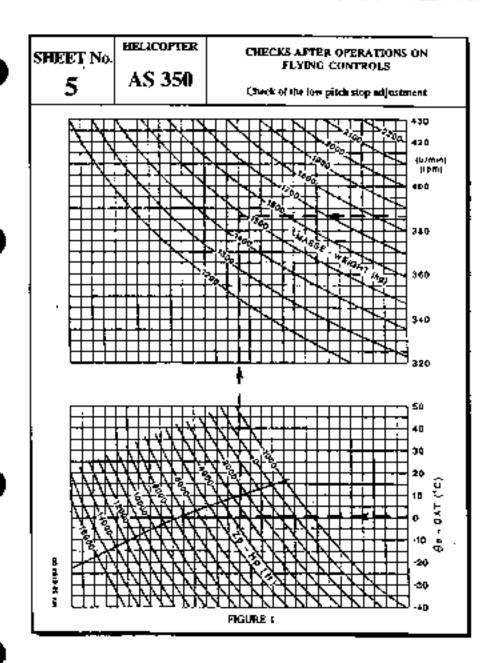
SHEET No.			FLYING	CONTROLS			
5	AS 35	50	Hydra 	aulicehecks			
TEST PHAS	— ··- I	1	RESULTS TO BE OBTAINED OR UMITATIONS	RESULTS O	BTAINED		
Start engine as prothe Numbal Protot Flight Manual, Sil Aircraft on the gri Full low pitch, col locked. Test accumulators	dwea of the ECTION 4.1. curd. Becave lever	for Ni Icaa U	warning light goes out R : Au 200 rpm (warm) An 110 rpm (cold)	Correct	Lacreyard		
servo-units: Press the TEST E pushtrulaxa		HYD Tæ s	warming light comes on. and warning sounds.	Correct	Lacored		
Move the cyclic so longitudinal, then exis by ± 10.95 of stroke (± 25 mm).	in the lateral the rotal	The in before nude.	rads must not appear 3 or 4 motioes are	Correct	Locarred		
Sei TEST HYD Normul	hac# 10	The HY	aural warning stops. D warning light goes out	Corred	brond		
Stan off hydraula collective level	pressure on	The a The lo	warrang light creess on ural warrang sounds, lads appears mmediately controls.	<u>Corred</u>	<u>Gac correct</u>		
		The k	1 · L1 · B2 : DLds 31 Uts pédals remain (accumulator)				
Close the hydraul	ic circuit.	90 004) Wandi	ural warning keeps ing as long as HYD ng tight stays on 3 sec.).	Cerrent	Ілентось .		

HELICOPTER CHECKS AFTER OPERATIONS ON

35C B2

SHEET No.	AS 3		FLYIN	R OPERATIONS ON CONTROLS plich stop adjustment			
TEST PHASI REQUIREM		RESULTS TO BE OBTAINED OR LIMITATIONS		RESULTS OF	TAINED		
to be r	OP on 5000 ft ice with alost low the weight an thrained at ful	d altitud	LIMITATIONS: NR : 430 rpm. de values ratach allow or with the control lever.	n NR beiween 395 an	 d 41≾ rpm		
Record the follow parameters:		NR in values	compliance with the computed by means of + D recons	Hip OAT Feel contents Correspond weight NR obtained Design NR			

:-



SHEET No.	AS 35			FLYING	ER OPERATIO CONTROLS LAX. Continuous		•
TEST PHASI REQUIREM			ESULTS TO OBTAINED LIMITATIO	OR	RESULTS	OBTAINED	
Level flight to Mad Power Altouge equal to 0 3000 ft							
Record parameter	s:	Refer to Limitations in Flight Manual, SECTION 2.1.		Hp OAT			
			REMINDES NR 393 rpun	_	ANET NE M III NE NE NE NE NE NE TEMPIEA-63 - Fuel FOROMES		
Chitik performance data :		2	Referso Hight. RECTION 5.2 M, L1) or SEC 0 (B2).	(BA, BB,	ias 🗀		
		Vibratt	bry le vel		Cerred	(becomed)	

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SHEET No.	HELICOP		CHECK AFTE	R GENERATOI	ROR		
6	AS 35	50 -	ELECTRICAL MANTER BOX REPLACEMEN				
TEST PHASI REQUIREM		RESULTS TO BE OBTAINED OR LIMITATIONS		KESULTS OBTAINED			
RATING	CITIDLE						
BATE swach Of Check GEN, value		U - 2	85 Vuppeox.	Correct	literes		
Operase the EMR: CUT OUT pushbi	RC). ublan	All pr excep	A BB: Ower Supplies are cut off, d: NR, forward dome	Correct	Incornect		
	:	All pu excess	LL L L ; ower supplies are curleff, o R, forward doppe (igh).	Correct	limetruct		
		causey	twersupplies we out off.	Corred 3	Incorrect		
	!						
ļ							

SHEET No.	HELICOPTER
7	AS 350

SYSTEM CHECKS

THE PERFORMANCE DATA OF THIS SYSTEMS TO BE CHECKED UPON COMPLETION OF A MAJOR INSPECTION ARE INDICATED IN THE STANDARD PRACTICES MANUAL (MTC)

	Ch	5ext	Sobj	Task
· Radio-communication	20	()7	07	501
· Radio-navigation	20	07	07	5112
- Navigation	20	97	07	503
· Autopitot and associated complings	20-	177	07	504

R

SECTTON 8 4

DUCKY OPERATING CH<u>ICKS</u>

The daily shacks must be conducted in accordance with standard mircraft practices and the appropriate manufacturer's recommendations, by qualified maintenance personnel or by a specually trained pilot. Any alteration or decailed inspection to determine servaceability as a result of these Checks must be done under the supervision of a properly encorsed Atheraft maintenance Engineer and duly entered in the Aircrast Loy Book.

HOTE : Same cercification authorities may require specific qualifications from the operators.

1 DAILY OPERATING CHECKS APPLICABLE TO THE BASIC AIRCRAFT

Daily helicopter operation requires three chacks :

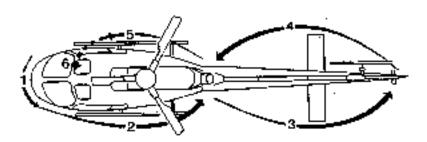
- . check tetore the first flight of the day.
- . check in conjunction with flight,
- thack after the Base flaght of the day.

1.1 Checks Before The First Flight of the Day (BFF)

РЕ**НАЙК** :

IF THE ALACKAFT HAS BEEN GROUNDED FOR MORE THAN ONE WEEK, BEFORE OPPRATING THE FITTING CONTRULS, MIPE THE SERVO-COMINCE PISTON ROOS WITH A RAG IMPRECHATED WITH SERVICE FLUID.

- Check that the area is clean and obtain.
- Remove the blade socks, if applicable.
- Perform the following crecks.



** 1640 OF AT

STATEON 1

- Transparent panels Cfear'iness
- · Pitet heads and static venes ... Blanking cover, drain removed
- Sideslip indicator Cundition

<u>STA</u>T10# 2

- Englue air intake Blanking cover removed
- Tail pripe cover Kenoved - ■35 Oil level
- Open the engine cowains : Transmission week and engine.. Condition, cleanliness
- Furl tank . .,... Purge
- LH baggage compartment door boads (led down, door locked)
- Lower cowlings Closed
- Aft baggage compartment ho foleign matter, closed
- Warm rotor blades his dents

STATTON 3

- Tern beem and TGS fairlings Security
- TG8 Gil level
- Tail rother guard (if fitted) ... Condition, security

STATTON 4

- Tail rotor blades Condition of shim
- Tail boom and TCB fairlings . Security

STATION 5

- BH baggage compartment Open
 - . Battery Commection
 - . Loads Tied down.
- Close and lock compartment
- Ground power receptable dogs . Closed
- Єлдіпа сомрагимент :
 - Transmission deck and engine.. Condition. cleanlaness

 - . Close the englise combing Correctly locked

STATION 6

- Collective pitch control.
 - and yaw pedals Free travel
- Cas generator control , Free movement
- Rocor brake control Free bovewent fuel shut-off control formand position, snap wire fitted
- Fire extinguisher In place

1.2 Check after the Last Flight of the Day (ALF)

1.2.1 General

This check maintains the aircraft flightmorthy. It consists in carrying num a visual or tactile examination of the condicion of a component, an assembly so as to detect defects which could affect correct operation, but does not require the use of any special techniques or tooling.

Pay parricular attention to the elements marked with an ascerick ***.

<u>MOTE A</u> - Magnetic plugs which do not have an electric indicating system may be checked for metal chips during the ALF check before the 30-ftying hour limit.

<u>MOTE B</u>: This check for defects (an be performed during the ALF check before the 30-flying hour limit.

<u>MOTE C</u>: This chack for defects can be performed during the ALF chack before the 80-flying hour or 150 operating cycle limit.

1.2.2 ALF check

EMPORTANT: FOR THE ARRIEL 101 ENGINES NOT MODIFIED TO 202.

WHER SHUTTING DOWN THE EMBINE AFTER THE LAST FLIGHT OF THE BAY, CONFIRM THAT THERE IS NO ABNORMAL HOUSE CORING THE AUTOROTATION OF THE CAS CENERATION. THIS CHECK CAN BE PERFORMED ON COMPLETION OF A CHARKING OPERATION OF NO MORE THAN 5 SECCHES, IMMEDIATELY AFTER ENGINE SHUTDOWN.

STATION 1

- All transparent panels Cleaningsp (class of required)
- Door jambs, carroby each members. We faults mor gracks.
- Cabin access coor Security and correctly locked
- · Pixot heads and scatte wencs ... Fit blanking covers

R

R

R

k

330 B2

STATEON 2

- LH baggage compartment door	Condition, security, seen, all
	objects tied down, close and lock
- LH Tanding year	Condition
. Shock absorber	Condition, absence of Teaks
, Wear resistance place	Condition
MLB camings	Open : condition of lacking systems
- MCB D11	Check Tevel
- Transmission deck	Cleantiness
- MGB suspension bars	Security
- Servo-controls, hydraulic	,
system	Security, no leaks, lines
- UUNLOW servo-controls	Security, no leaks, no cracks no
	The hedy leading to scopage (
Hydraulic filter	Clegging indicator (if fifted) not (visible
- Mydraulic reservair	
	tightness
- Cooling fan	Motor security, condition of blades
- Fuel Milter	Security : check paint marks ; clogging indicator not visible
- universal tales assembly	Security office to alone and largest



99 38

RC E

1.2 Check after the Last Flight of the Day (ALF)

STATEON 1

Added the following charks:
- Silding window Free from faults, cracks, unboncing,
loss of silde.



CAUTION: 1M19 PAGE MUST ONLY BE REMOVED FROM THE MANUAL AFTER INCORPURALISM OF MDD. 0/2573 and 0/2582.

3**50** 82

8.4

RC G

STAT10H 2

- Bidirectional cross beam Check for cracks on laminate bearing upper face, on NGB pick-up side. Refer to MOTE C.

CAUTION: THIS PAGE MUST ONLY BE REMOVED FROM THE NAMEAL AFTER INCORPORATION OF MOD; FIGATION 072770.

350 BZ

8.4

RR 7A

STATION 2

After the check funiversal joint assembly field the following check

- Frewall Condeon



- WASH ROTTER SHORT

Smashplate bearing : check to be performed within 5 min after rotor stops	No abnormal hearing felt when touched with hand, he grease runs, no charge in colour mon scaling of paint.
. Scissors, swastplates, rods, swivel bearings	Condition, Se(prity ; no friction pointer play
. Swashplate/pitch change rod end-fitting interface	Ho traces of contact, paint scaling Or sweetylate actachment yokes
* Pitch change rock P/N 358437.1505.00 to .05	And upper and loner end-fifting paint marks must be visible and aligned
• Rotor shaft P/M 350A37.3076.00 to .0b inclusive. All visible section of the shaft, particularly under the hub	
HAIN WITCH HUR	
* Star * Star recesses * Spherical thrust bearings	
	Mo elastomer faulos, unbombing, acratches, blisters, extrusion, cracks
* 2-layer frequency adapter	adapter and the metal shiwn. Refer to MOTE B
. Self lubricating bearings Bushes in the ends of the STARFLEX bub aims	Mc debras nor play. Refer to <u>MOTE B</u>
Flaced licusing magnetic plug	bead and the bush. Refer to NOTE B.

 ing:re air intaka Wanufacturer's air intake Engine combing Fingline whomat Engine and engine comparament Engine and eccessories 	Condition of seal Open . Condition of locking systems	REPERENT A
Controls Transmission deck drain Freewheel Gas generator ARRICL 1 01 engine room modified FU202	Interference Not plugged Degrate from the teil rotor . The free turbine should be driven when the teil rotor turns clockwise. Mhen the teil rotor turns commiter- Clockwise, the freewheef should de- synchronize (less important load). Refer to MOTE B When the Te is less than 150°C, Turning the compressor by hand, Confirm that the gas generator rotates freely and that there is no abnormal noise. Security, blanking cover fitted	RHRRR
S(AY104.3		
- Horizontal stabilizer, fin, tall bumper TGB Tall sctor guard (if fitted) STATION 4	Gil Nevel, no loaks	P.
. Bellorark hinge pin . Sealant bead	Condition	•

rail bumper Security, condition

* TAIL ROTUR BLADES	polyunethane protection coating in the trailing edge (visually inspect for debanding, blisters, scratches, cracks, dents and distortion). On the Stevnless steel heading edge strip, inspect for holes (grusion), splaying and depts.	
* Tail rotor blade spar	Check for abnormal spar noise when the rotor is bent immeds and outwards to form an arc. Refer to MDTE B	
Laminated half-bearing	Mg bonding separation, damp (reck or energence	
- Blade horn ,,	Ho play	
. Picch change control	Condition, security	
Paint line on pacch change concrol and spacer/baffle Pitch change rod swavel	Na misa: ignment.	Ř
gearing	Check, (Refer to M <u>OPE B</u>). the absence of play ()) by twisting the blades back and forth, low amplitude movements (A) (Refer to	R R R
\$\\\	Figure 3). the condition of the ball joint, by visual inspection. That no Teflor material has	RRRRRRR
	agweered out. That the ball shows no signs of burdishing or scoring	***
<u>.</u> <u></u>		
	e 3	R
 SALANCE ARM HINGE: (Flapping hinge bearing) according to type: Type 1: Cups un either side 		
of the pro	Visual play and no metallic parcicles	
Type 2 : flapping bearings Type 3 : bearing outside come	ho play	
- Tay' boom fairing	No cracks, extrusion, browsp chips Security	
	•	

STATION 5

- Battery 5e <pre>prety</pre>	
- for baggage compartment door Security, condition, locking	
- #H landing gran Condition	R.
. Shock absorber Condition, no leaks	
Mear resistance planq Condition	
- MCB cowiling Open : condition of locking systems	
- Transmission deck (Fearliness	
- M.B Leakinghtness	
. Wagnetic plug Ho 🖦 🗚 (hups. Refer to NATE A	
- MGB suspension bar Security	
- Servo-controls, hydraulia	
System	
- DUMLOP servo-controls No crarks on the body leading to	R
Súblicade.	R
- Engine oil tank, system 3" level, security, rightness	
- Eggane oil cooler	
- Universal joint assembly Security, pin ficted	
- Engame mount	
· Engine and engine compartment	
- Engine and accessories General coedition, Cheanliness	
. Systems No leaks	
Controls Interference	
. Imansmission dack drain . Not plugged	
. •	
* MACHETIC PLUG	
ARRIEL engine magnetic plugs No metal chips on farward and aft	
without electrical indication - reduction gear magnetic plugs.	A
· · · · · · · · · · · · · · · · · · ·	
- Aft reduction gear wagneric plug. Refer to MOTE A	R
	A.
- Forward reduction goar magnetic	
plug (aprianal) gefer to hore a	
- Engline and WCA cowbings Classing, lacking	
*	
SIATION 6	
- Seat Security, pin in place	
- Cahin General cleanliness	

RR 7A

ŞTATION 5							
After the check funversal joint a	3554	emb	ly".	acid	ιhe	lollowing	check
- Fegwall							Condition

RC F

STATION 5

- * MAGNETIC PLUG :
- ARRIEL engine magnetic plugs without electrical undication.

Replace the existing test :

"Aft reduction gear magnetic plug MEFER TO MOTE A"

as 10'lows :

"Aft reduction gear magnetic plug Check every 8 flying hours and daily"

CAUTION: THES PAGE MUST ONLY BE REMOVED FROM THE MANUAL AFTER . INCORPORATION OF MCD. 18 2.82.



99.38

RC G

STATION :

- Bidirectional cross beam Check for cracks on laminate bearing upper face on MAB pick-up side.

Refer to <u>MOTE C</u>.

CAUTION: THIS PAGE MUST CHALLY BE REMOVED FROM THE MANAGEL AFTER INCORPORATION OF MODIFICATION 072720.



2 DAILY OPERATING CHECKS FOR OP/JUNAL CONTRIBUT

For each optional equipment (see installed on the melicopter, the daily check must include :

- a chack before the Parst flight of the day,
- a check after the last flight of the day.

These (hecks consist in performing a visual examination of each optional equipment (less in order <u>eq.check its general condition and security on the aircraft</u>, in particular for :

- windshield wipers.
- fire extinguisher,
- ski installation,
- air ambulance installation (stretcher).
- flares,
- (argo swing,
- ferry lank,
- blode publication against sand,
- sand filter

The optional equipment items which require specific checks are listed below

2.1 AJR EQUIPMENT on BREEZE electric bonst installation

The holst must be checked by the holst operator.

- Check that the hoisting blocks and soap Pooks function correctly
- Perform a hpist [unctional thack : unwind the (able over approximately Q.6 m (2 fg) and them remind it : check that the "up" and of travel (uncase functions course("ly.
 - . Check to be performed during the ALF check before the 30-moun operating 4. Finit.

AIR ECOLIFICATION PROCEST fitted with an end of-cravel microswitch monitoring 5ystem :

Complete the (helk with the following :

- Switch on the electric hoise.
- Unwind the cable by approximately one to rea metres.
- Wros the cable :
 - . As the cable winds up, chack thut :
 - the GREEN light is LIT.
 - the RED light is EXTENCUESHED.
- On completion of the hoisting operation, maintain the *4P* order using the hoist operator's grip.
 - . During the "OP" order, check that :
 - the GREEN light is EXTINCUISHED,
 - the RED light is EXTINGUISHED.
- Maintain the "UP" order on the hoist operator's grip and press the test push-buccon;
 - . During the "UP" order, (heck that :
 - the GREEN 11ght Is EXTINGUISHED.
 - the REO light ILLEM] MATES.
- Check to be performed every 25 hoisting operations :
 - . Free roration of the hook.
 - . Condition of the cuble,
 - . Sparation of the duble extraction mechanism.
- Operations to be performed every 50 Maisting operations :
 - . Grease the hoist brake acceptly
 - . Clean then grease the rable winding screw.

8.4

350 B2

2.2 Emergency flooration open installation

Check before the first flight

- Place the emergency Floatacier goar in low position, pins locked, safety pin in place.
- Check that the ringuit-breakers in the aft baggage compartment are engaged.

Check after the last flight

If the aircraft has flown at low altitude over the sew, wash the buffletion cylinders and the gradle assemblies.

2.3 Floatstipn gear lustallation

Check before the flost flight

- Visually check the protective covering and that the floats are clean and free from tears.
- Check that the pressure in each compartment is 0.300 to 0.450 bar.

Check after the last Dight

- · after alagheing in saley water, wash with soft water.
- After landing on a moddy field, wash with soft mater.

Park ing

Park in the shade, of possible, and protect the thoats against the heat.

2 4 Crop spraying installation

This optional equipment requires the presence of qualified staff to perform the daily operating checks.

2.5 Employ fire extipposshing system

- Check that the pressure of the cylinders is correct.

2.6 Cargo Swing

 After the last fleght, lightly grease (GSSe) the end of the load hook at the lock input.

7.7 SSE Ware ancome inscallation

- Check the condition and arrachment of the wire antenna.

8.4

R.

3 OPERATION IN COLD WEATHER

3.1 Cengral

This SECILOM groups all the operating procedures to be followed when the aircraft is used in particular climatic conditions, such as cold weather and snow. Aircraft servicing does not require any special tools or systematic replacement.

3.7 (general Recommendations

For rational operation of the aprovadt in cold weather and show it is recommended to carry out the following basic operations:

- Hemove ice or seem deposits from the whole of the aircraft, particularly at hinges and movement transmitting items (main rotor, rotor mast, law) drive and tall rotor, flight controls, engine controls;
- When the aircraft has been subjected in very 'rw temperatures, it is recommended that:
 - either regular ground runs be carried out every two hours for remneratures of about -20°C and every hour for lower remperatures.
 - or preheating of the engine, transmission assembles and cabin be effected before take-off (a)though the helicopter is capable of carrying but engine start up and motor spinning at temperatures down to -40 C).

During the preheating operation, carefully wipe out the descing water to avoid all water acception on the aircraft and water re-scing as soon as preheating is over, particularly on the AIR INTAKES and components located above the air intakes.

PRACTICAL ADVISES

- for the preheating and deiting operations, use appropriate Meacers in good condition only. Do not refuel the singraft while the heaters are functioning.
- During the preheating operation, do not leave the execuaft Lewaltched.
 Keep an extinguisher available at hamp.
- Avoid directing hot air towards the Following parts of the aircraft; tanks and fuel, oil and hydraulic fluid lines.

3.1 Lubricants to be used for Transmission Assemblies

Meion -25 °C, do not use aIR 3525 (0 155) all for transmission assemblies without instial proheating.

The other oils authorized in Section LIMITATIONS of the hasic flight manual may be used down to $-40\,^{\circ}\mathrm{C}$ without preheating.

<u>HOTE</u>: It should be remembered that when changing the oil, the system is first to be flugged in accordance with the recommendations in the Maintenance publications.

. *

8.4

3.4 Use of Batteries for Starting

During long periods of inoperation it is recommended that the bathery Be stored in a warm area.

If a growing power unit is not available, start-up may be causied our using the aircraft battery or two aircraft batteries connected in parallel.

The startury envelope is related to the temperature and is indicated in the supplement instruction for operation in cold weather

1.1 Preparation for Flight

Independently of the inspections prescribed in sections 8.4.1 and 8.4.2, perform the following operations and inspections:

Warn rotor blades

Remove the blade socks, then remove some if need be and, of mecessary remove ice from blades using bot hir flow at a temperature mot exceeding at it.

Main rotor hub and mast

Remove ide from the smalleplates, the tdistors, the Servo controls and the rotor head apring antivibrator.

Power plant

- Remove the air incide cover and the exhaust nozzle blank after removing snow from the aircraft surface.
- Remove show and its accretion in the widinity of the air intate, on either side of the streen and inside the engine air intake duct (remove the air votake screen if necessary).

- It is importative that the air intake be alean

Manually would visually theuk for soom and ite inside the air intake duct up to the first stage of the communessur : In case of icing :

- . remove the using a wooden or plastic scraper,
- carefully whole the surface using a cloth scaked with issocropylalcohol.
- inspect drains, umblenched sauppers; check for snow and ice on yent and static ports

Tail rotor

- Remove the blade sockets, then remove use from the TAM assembly (blades, pirch rods. .).
- Maximally rotate the tail rotor so that the mean rotor performs 1 turn at least, then check;
 - the swashplace rotation (roter brake not blacked).
 - , the TRH rotation.
 - . The trepwheel operation.

.. . ..

Staucture

- Remove the Cabin Cover once the Inspection is completed.
- Wave some that the windshield wiper has not remained stuck on the compy.

Flight controls - Engine controls

- Before operating the controls, it is recommended to heat-up the inside of the cabin.
- Operate the controls progressively, then operate the rotor brake Controls, fuel flow control and collective pitch control over their complete travel.

It is recommended not to perform extensive travel of the cyclic and tail recor controls.

Fugl system bleeding

On not bleed the fuel system under a temperature equal co or lower than 10 °C where valve seals prove impfficient.



3.6 Check after Last Finght of the Day

The operations described in SECT1045 B.4.1 and 8.4.2 are to be complered by the following actions

- Inspection of the engine magnetic plugs should be performed within 30 min after the rotor has stopped rotating, in order to avoid seal damaging.
- Care must be taken not to beare doors open.
- Install the air intake cover and exhaust mostle blank.
 When the aircraft is parked in an unshabtered area it is recommended to apply anti-toing materna's and to carry out the aircraft parking and mooring.

HOTE : ANTI-TUTNS MATERIALS

- Anci-teing fluso = Isopropyl allcohol as per Alt 3660 or descing as ser Alk 3565 (WIL-A-6091).
- Amti-icing sealing compound 0.437.
- Anti-icing compound E.57.
- Anti-rain material S.P.R. G7.
- Anti-iring material to be applied on blades: silfrost 株化 or kilfrost DF.

CAUTION: - REFER TO SCHERAL INSTRUCTIONS FOR THE USE OF ANTI-JOING WATERIALS.

- AHTI-JCING MATERIALS CAN DAMAGE THE HELICOPTER COMPONENTS.
- USE RECOMPENDED AND APPROVED ANTI-16146 MATERIALS ONLY

SECTION 9

OPERATIONAL DATA

CONTENTS

- 9.1 RECOMMENDATIONS FOR CARGO SLING OPERATIONS
- 9.2 EMERGENCY LOCATOR TRANSMITTERS
- 9.3 SCHERNOLY FLARES
- 9.4 AIR AMBULANCE INSTALLATION
- 9.5 SMIVELLING LANDING COGIT
- 9.6 RETRACTABLE SMEVELLING LANDING LIGHT
- 9.7 SEMACHLICHT
- 9.8 FUELTRON FUEL FLOWNETER
- 9.9 SKI INSTALLATION
- 9.10 FREEN AIR CONCTTIONER
- 9.11 FAURE HERMAN FUEL FLOWNETER
- 9.12 MANCE. AND COLTERNANN MATLESS
- 9.27 MINI-HUMS SYSTEM

9.0.P6

SECTION 4.1

RECOMMENDATIONS FOR CARDO SLEAR OF CRUTTORS

L PERSONNEL TRAJACIOS

Cargo siting operactions say only be exhausted by offers who already have considerable experience with their afronaft.

No pillot way eaks so to cargo-carrying fillights without first having scored listed such operations in the company of an instructor.

Mechanics on ground duty must be fully informed by the prior before each $\frac{1}{2}$ to particular as regards:

- their position or the ground considering the prepaid filings part :
- the direction in which to some every ,
- Mer hook-up operation :
- NAME & lightly to be used on radio instructions :
- protective equipment : helmats, glaves, glaves (if explicable) :
- The number of round trips between region/sysents.
- the marrier of retrieving allings and rate.

2 MANDATORY PRE-CHEROTOMAL DIEDAS

2.1 Helicopter Constitue

In addition to the usus' exemination of the helicopter, the release unit must be computely exemined and the secreties checked for computinglesses operation.

2.2 Completion of Siting Equipment

The mete, etmops and sirings must be evanished thomoughly, any agen on fravet components are to be discurded

The Cables, sureps and ender his must be capable of carrying three times. The capables embidipeded load

2.3 Preparation of Loads

take sure that all part/diparts are we'll aware of the weight of the leads.

Erduffe That that wethod of appropriate in under stood,

2.4 Condition of Loading and Childeding Armen

Section on the down will shot wight be displaced by the notion sources.

2.5 <u>(ctal weign</u>t of we) company with Land

Office maximum acceptable lead competitive with terms in configuration and atmospheric conditions, Unless the platforms are in place surroundings and fairly large, consider as rewinus veight that which can be held in hower D.S.E. in calls air over the higher of the two platforms (take-off or leading).

9.1

B9-17

\$ RIPSOPHE LOADS

Repay logate, such as begans? canant or drums of kerosen, which are carried in a rec. present no centicular problem

Special precautions must be taken in the case of bulky loads, which have a tempercy to eachlishs and even to ifficet during transport on the sing. Permeability to air can have a stabilizing ethect on a publy load of or example, a talleteric or should be concled with both its doors open.

Newer cerry or airfell alone , there is a great risk of the airfell "lying up into the tail rotor.

If several cables are used to sing the load, they must be long enough to form an engle of leas than 45' between cables at the opinit of suscention under the helicopter , dependence shows that oscillation of the least is thus least likely to occur.

On the other mand, if the load is slung on a single alling eacle. It is preferable but a feithly short cable be used as there is then have night of the load swinging, and it is easier to judge the height of the load during approach.

For the retrieval of channel helicoptore it is generally possible to use a 1945og ning on the noton sheft.

birplanes are carried using athems passing under the fuselage or under the vings. The cables must be attached in such a way that the amplitude is in a slightly none-down attitude when the helicopter is in the hower

6 | W-F; (fort PRECAUTIONS

after mosting on the load the ground rechanic is to stept the specialism of the sting copies then covered way. The pillot even make sure that the section is has according to a solution to the load.

Movements to applied showly arough to allow the helicopter to cambre itself above the load.

4 varitical take-off suptice maps, avoiding dragging the load along the ground on attricing any obstacle.

Caratulity avoid flying over houses, vehicles and periods.

If the load stants to sking, reduce speed-

Approxim must be made head into the yind with granks i reduction in air-speed, and transition into hower high enough above the ground to eliminate the miss of oragons; the load.

Set the igad down, then record collective pitch sufficiently to placker the capies sefore opening the release unit hack, this also allows the pilot to shours that the load is deposited if the cables are long though, some sideways a little before opening the mook, to prevent the ring and tackle incomes "if ing crop the freight."

9.1



Even after the rechard has olgicallied that the loss is released, sowe away as if it were not : this is an advisorie orecaution against possible static-between section of algorithm.

Heren "by easy with an ampty net on an unballested alling.

9.1

JOLLICT JEZ EMERGENCY LOCATOR TRANSMITTER

L CEMERAL

The JOLLIET J.E.2 emergency locator transmits radio peacon anguals simultaneously on the international distress frequencies (121.5 MHz and 743.0 MHz) to aid belicopter search and rescue operations.

The unit operates automatically in the event of crash impact. It may be operated manually by means of a switch on the transmitter front panel, or by means of a semote congro! switch.

2 COMPONENT LOCATIONS

- A locator beacon is attached to the structure and is located incide
 the rear baggace comparyment.
- A beacon location label is attached to the outside of the aircraft.
- A control switch is fitted underneath the instrument panel on the unlot's side.
- An antenna is located on the tall home.
- A label fitted close to the salich reads :

EMERGENCY LOCATOR TRANSMITTER
FOR AVIATION EMERGENCY USE ONLY

3 CHECKS

3.1 Pre-flight inspeccion

On the instrument pane? ;

- Check that remove concret switch is set to "AUTO".

Do transmitter :

- For old generation locator beacons :
 - Check that the switch is set to "AUTO"
 - . Press in the "RESET" push-but (on.
- For mew generation (NC) locator bearchs :
 - . Set the switch to "OFF/RST" for 2 to 3 seconds
 - . Set the switch back to "AUTO".

9.2

3.2 Pre-flight checks

- Select the international distress frequency on the aircraft WHF or BMF system.
- Sec switch beneath instrument panel to "MAMD" for approximately one second.
- The Transmitter output signal should be audible in the headphones.
- Set smitch back to FAUTO-.

3.3 Post-flight check

After landing, ensure that the emergency locator transmitter has mot been accidentally switched on:

4 UPERATING PROCEDURE

4.1 Automatic operation

The transmitter is accuated automatically in the event of an impact of the switch is set to "AUTO".

Impact detector reset :

- New generation locator beacon (MG) :
 - . Select the locator switch to "OFF/RST", hald it in this position for 2 or 3 seconds then select it back to mAUTOm.
- Old generation locator beacon;
 - The impact detactor may be reset by means of the rRESETH push-button located on the transmitter; the reset push-button also knows the automatic actuation of the transmitter.

4.2 Marual operation

The unit may be actuated manually by setting the switch to "Mappy".

4.3 Portable Operation

The transmitter may be used on the ground as follows :

- Remove the transmitter from its mount.
- Select an unobstructed area.
- Pull out the built-in anterns,
- Hold the unit upright with the antenna on con.
- Switch on the transmitter by setting the switch to "waku".

2. ELT 96 EMERCEMEN LOCATOR TRANSMITTER

1 CEMERAL

The ELT 96 radio beacon is an emergency transmitter which is used to locate the helicopter is an emergency. It transmits simultaneously on the intermational frequencies (121,5 - 24) - 406 MHz).

The transmitter starts operating automatically in case of impact or in case of cable preakage.

It may be switched on manually what the Switch located up the top face of the transmitter or via the remute control switch located under the instrument panel

COMPONENT LOCATION

- A transmitter estached to the structure inside the rear damps hold.
- An excernal label andicating transmitter location
- An AUTO MAND (Ontrol Switch located under the instrument panel on the Dilotis side.
- An AUTO TEST/RESET pushbuccon located next to the control switch
- A red XMIT ALEXT indicator light located on the instrument panel on the pilotis side.
 - An ancenna on the Lie side of the Labor roof.
- A label fitted close to the switch reads :

EMERGENCY LOCATOR TRANSMITTER FOR AVEATION EMERCENCY LIST DHEM.

a OHECKS

3.1 Pre-filight Inspection

Check the following under the instrument panel: . The remote control smitch is set to "AUTO".

CAUTION : IF THE SMITCH IS SET TO MALTOM AND THE COMMECTOR IS UMPRINGED. THE TRANSMITTER #]LU OPERATE

Check the fallowing on the transmitter :

- The commector is playing in.
- The switch is set to "AUIG".

3-2 Pre-filight Checks

- Tune in to 121.5 or 249 MHz.

- Press and hold pressed the "AUTO TEST/RESET" pushbucton.

The following should accur :

The red "XMIT ALERT" light Comes on.

The transmirrer should be heard on the distress frequency.

<u>MOTE</u>: If the indicator light flashes, it indicates that the barreries are faulty or the transmitter is imperative.

1.3 Post-Fleght Check

After landing, theck for untimely transmitter operation (the red "XMI" ALLER" light thould be extinguished).

Check the following on the transmitter :

The switch is set to "dFF".

OPERATING PROCEDURE

4 1 Automatic Operation

The transmitter will hegin operating automatically in case of impact if the remote control switch is set to the mautom position.

The red 'OMIT ALERT' light comes on during transmitter operation

Reserving the impact detector

- Concrol switch set to "AUTO".
- Press the "AUTO TEST/RESET- pushbutton,
- The transmitter should cease operating.

<u>hOTE</u>: If the transmitter containes (ransmitting, perform the sparathon again, 3f, after several attempts, the transmitter ranking in operation, set the switch on its cop face to "OFF".

4.2 <u>Warsel Operation</u>

The transmitter will begin operating when the remote control switch is set to "NAMA".

The red "XWIT ALERY" light comes on during transmitter operation.

4.3 Speciable Operation

The transmitter may be used on the ground as follows .

- Set the switch to *OFF*.
- Remove the transmitter from its support.
- Work on a Clear space.
- Hold the transmitter in the vertical position with the amtenna upwards.
- Set the switch to "MAN/ALSE!" to begin transmission.

6

9.2

3. HARCO ELT 910 EMERCENCY LOCATOR TRANSMITTER

1 CEMERAL

The MARCO ELI 910 emergenry locator transmits radio bearne signals simplemenusly on the international distress frequencies (171,5 Whz and 243.0 Mhz) to also helicopter search and rescue operations.

2 COMPONENTS - LOCATION

- A locator beacon, attached to the structure, is positioned inside the (### baggage hold.
- An external identification label of the locator beacon
- A control unit, located on the instrument panel
- An antenna, located on the tail boom.
- A label fitted close to the switch reads .

EMERCENCY LOCATOR TRANSMITTER FOR AVIATION EMERGENCY USE CHLY.

3 CHECKS

3.1 Pre-fitting Inspection

On the instrument panel :

- Check that remote control switch is see to PARU-.

ûn cransmicter, sheck that :

- ON-OFF-ARM to set to ranker.

3.2 Pre flight Checks

- Select the international discress frequency on the aircraft WHF or UMF system.
- Ser control unit switch to "OW" for approximately two seconds.
- The indicator light on the remote control unit lights up.
- The transmitter output signal should be audible in the headphones.
- Sec control unit swetch to "ARU".

1.3 Post-flight Check

After landing, ensure that the emergency locator transmitter has mot accidentally been switched on.

4 DPERATING PROCEDURE

4.1 Automatic Operation

The transmitter is acqueted automatically in the event of an impact, assuming the switch is set to "ABN".

<u>MOTE</u>: In order to reset the locator heaton fullowing automatic actuation, proceed as follows:

- Select the remote control switch "ON" for two seconds, or the transmitter selector to "DFF".
- Re-select the switch to "ARN".

4.2 <u>Manual Operation</u>

The works may be actuared manually by setting the swigch to 'Ow'.

4.3 Portable Operation

The transmitter may be used on the ground as follows :

- Remove the transpotter from his mount,
- Select an probatructed area.
- Extend the ancenna
- Place the unit upright with the anterna on top.
- Switch on the transmitter by setting the "CM-OFF-ARM" switch to "CM".

RR 76

560TON 92

KANNAD 406 AF EMERGENCY LOCATOR TRANSMITTER

1 GENERAL

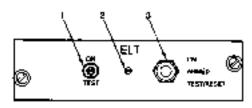
The emergency locator transmits radio beacon a grigis simultaineously on the informational distress frequencies #21.5 MHz 243.0 MHz and 406.026 Mhz to aid newcapter search and resourcepages.

It can be actived manually or automatically in case of a crash.

Z DESCRIPTION

The KANNAU 405 AF beacons consist assentially of the inflowing

- · A transmitter located to the lear cargo compartment is titled with "ARM-CN-OFF" switch.
- . An antennal ideated in the upper section of the intermediate structure.
- A remote control switch, obsided in instrument panel.



REMOTE CONTROL PANEL KEY

REPORE	DESCRIPTION	FONCTION
1	Amber Fg/m	- OM : transmission is effective - Test mode . One long flash indicates good test . A sadas of short flashes indicates lad test. . Cogning of the :est is indicated by a short flash.
2	Buzzer	- Awai signal
j	3 poster swith	The switch of the BLT is in position "APM" ON : beacer is eclived. ARMED sime the shock sensor provid. TEST/RESET Set lest mode. In case of astination, the BL1 can be reset by switching to TEST/RESET

9.2

R# 78

5 OPERATION

3.1 Pre-Hight Chack

- On Yaremitter: check that ARM-OFF-ON swecth is set to ARM.
- In eackpill check that remote control ewilch is set to ARMED.

3.2 Operation Teating

The self-test mode is a remporary mode.

This mode is selected exten

- When switching from DFF to ARM the switch of the ELT.
- When switching to TEST/RESET on the remote control panel (provided that the switch of the EUT is in position ARM).

The buzzer operator during the self-test procedure

NOTE: It is strictly prohibited to best the ELT by paremetting.

3.3 Post Flight Check

After landing, set ma VHF receiver to 121.5 MHz to execute that the emergency incolor transmitter has not accidentally been switched on

OPERATING PROCEDURE

4.1 Automatic Operange.

The transmitter is actuated automatically in the event of an impact assuming the switches are set to APMED.

NOTE: The TEST/RESET position stops locator transmitting and resets the impact detector.

4.2 Manual Coordoon

The Limit may be actualed manually by setting one control watch to CNI.

4.3 Posteblo Operation

The transmitter may be used for self-contained operation on the ground as follows:

- Remove the marximiter from its mounting breaket.
- Disconnect the coax from the arcraft antenna.
- Select an unobstructed area.
- Extend the built-in lags amound
- Place the unit sangh; with the antenna on see.
- Switch on the framewitter by setting the ARM-OFF (Ohrswitch to Oh).

9.2

SECTION 0.9

SCHERMALY FLARES

1 GENERAL

SOMERALLY flames and used to "liturinate the ground outing highs operations. Two flames are carried on a support on the port side of the fuse lags.



LOCATION OF SCHEMILLY FLARES.

2 FILOTIS CONTROLS

Firing of the flares is controlled electrically. The control eyeter controllers $\boldsymbol{\epsilon}$

- a "FLARES" pushoutton (1) situated on the control.
- a firing pushbutton on the pillatic evolutionarthal grip.

The firing circuit is protected by a fuse element on the control console fuse panel.

3 SPERATIONS INSTRUCTORNS

The maximum photograph for firing the fluxes is 1600 to 1500 m). For monthus effectiveness, the second flare should be fixed at an albitude of at least 300 ft (250 m).

It should be noted, however, that firing the Flares below (200 ft (400 y) way be congenous if a fire hezard exists in the eres to be (I)unimeted.

9.3

350 52

Pege 1

89-17

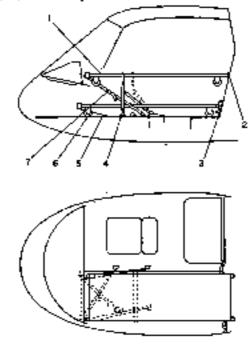
1 GEMERAL

The air ambulance duty version is designed to carry one or two Scretcher pathency accompanied by one or two medical assistants seated on the RH rear seat

2 DESCRIPTION

The air ambulance installation occupies the LM portion of the cabin and thus procludes any other use of the LM side of the aircraft. It is therefore necessary to remove the copilor's seat, the dual controls and in some cases the LM mean passenger seat. The lower stretcher (6) is placed up the cabin fapor and is secured by Straps (3 and 5) to tie-down rings and fittings.

The upper stretcher (1) is held by brackets (2) on the rear bulkhead, carried by a support frame (4) at the front, and secured by straps (7) to the floor tie-comm rings.



08.4810.05.00

9.4

) UVILIZATION

į

Three configurations are possible :

- 1 stretcher (upper or lower)
- 2 stret(hers

<u>MOTE</u>: If only one stretcher is being used it will be time-saving to use the lower stretcher.

When not in Service the streethers are folded and scowed with their straps in the bagsage hold. The upper stretcher support frame folds down onto the cable floor.

Scretchers are insmalled in the following order :

- 1. Lower stretcher (6)
- 2. Mones stretcher (1).

3.2 Preparation of the Cabin

Enscallation of the air embulance duty version requires a number of preliminary cabin alternious.

3,1.3 Lower Stretcher

- Accepte : dual contrals, copillat's seat, seat (ushions from L.H. rear passenger seat.
- Fold up L.H. (ear passenger seat against year bulkhead.

3.1.2 Upper Streegher

- Remove : dual controls (thil rotor control pedals reed not be removed), copilor's seat, seat (ushions from L.H. rear passenger seat, L.H. rarpeting
- U.M. rear passenger seat remains open
- Raise the support to vertical position and secure.

3.1.3 Hoper and Lower Stretchers

- Remove : dual controls, dopilor's seat, I.H. rear passenger seat dushions and seat, L.H. carpeting.
- #O[L : For the *glush* varsion, both ammresss of the L.H. rear passenger seas must be removed.

3.2 [receiling the Stretchers

- Doen the port side doors.
- Load the stratchers into place in the cabin forwards.
 - Set the lower stretcher on the cabin floor. Set the upper etretcher or the support post,
- Engage the rear handles of the athetohers in the preparety on the rear
- outlinead.

 Secure the retaining assess and mooks at the front and TPLPT pine hat the rear.

CAUTION : THE PATIENTS ARE STRAPPED TO THE STRETCHETS AND MUST BE EMBARCED FRET FORMACS, MEAN TOWARDS THE TAIL.

9.4

350 82

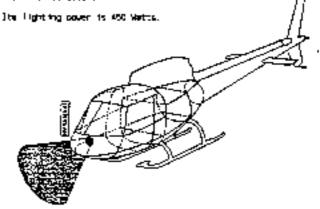
Page 3

SHEVELLING CONDONS LIGHT

! BENERAL

This twive liking lending light that can be orientated to exhaum, he an aptional equipment item designed to therete exhauy suring the approach phase and taxing demostrant.

This optional equipment is inetablet on the bottom, forward θ,θ , side of the lower structure



2 CONTROLS

The controls of the extracting light are located on the pilotis collective pitch lever handgrip assembly.

An OWOFF switch is used to control the lighting which is continued by the illustration of an indicator light on the instrument panel or on the Hanning-Caution-Acvisory panel.

A four-way switch is used to retract and extend the fanding light.

3 CERCUIT PROTESTEDA

Circuits are protected as fullows .

- a 2.5-Amp. Ruse on the R.A. above panel for the confirm to would be
- 8 20-Amp. Tusts in the electrical nations has not the lighting pincult.

9.5

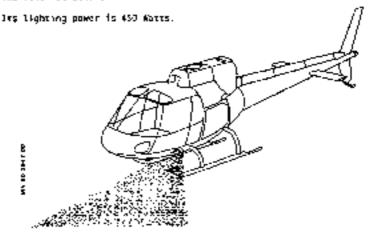
89 17

METMACTABLE SMEVELLING LANDING LIGHT

3 GEMERAL

This swavelling landing light that can be or uncated both in elevation and azimuth, is an optional equipment designed to improve safety during the approach phase and taxiing operations.

This uptional equipment is Installed on the bottom, forward tH side of the lower structure



2 COM*#OLS

The controls of the retractable swivelling landing light are horaged on the pilot's collective pitch lever handgrip assembly and optional, on the copilot's collective pitch lever.

An ON/OFF switch is used to control the lighting which is confirmed by the illumination of an indicator light on the instrument penel or on the Warning-Calstion-Advisory panel.

The rear (apring return) position of the "UN" switch must be used to retract the searchlight.

This ensures that the searchlight is always switched off when it is in the "RETRACTION" position.

The extension and Orientation of the searchlight are carried out using the four-way control button.

) CIRCUIT PROTECTION

Circuits are protected as follows :

a 2.5 Amp. fuse on the KH side panel for the control pincuits.

a 20-Ano, fuse in the electrocal master box for the Higheling Girquit.

350 B2

9.6

SECTION 0.7

SEARCHL CONT

1 GEYERAL

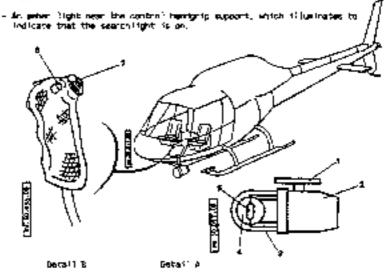
The LOCATOR search light installation is interest to 15 lesingle the ground by a serveriting light beam in order to facilitate certain efscions (search, rescue, surveillance, ...).

2 COMPONER' LOCATIONS

This inestal fation consists mainly of a

- A #50-M power light (Detail A) secured to the bottom, forward L.H. elecof the lower structure, forward L.H. wide, comprising a

 - a glass dote (3).
 a sulvailing parabolic reflector (4).
 - . a fizad-árc lamp (Si,
 - . a housing (2),
 - . a sourt (1)
- A control handgrip (Octa*) 8) which, when not used, is hasked onto a support located between the two sents.



89-L7

9 OPERATION

on tw MP pushbutton (6) located on the control grip is used to exists on english the LICATOR search light installation.

Full programme is obtained 25 seconds after the searchingth has been suitched on. This is confirmed by the illumination of the ascent indicator light.

A four-way button (7) is used to operate the inflector for orientating the light began in the desired direction.

NOTE: To provent any preveture damage to the last 15 to Advisable :

- after the search11ght has been switched on, to wait 15 seconds before switching it off.
- after the search light has been switched off, to well 30,to 60 seconds before switching it on again.

9.7

QUELTRON FUEL FLOMETER

1 GENERAL

The "ALEITROY" (us) computer is a device used to confitor a helicopter's fuel compusation.

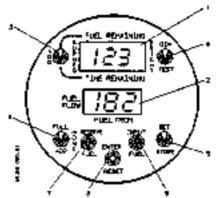
From a given quantity of their stored in its remany the device can compute :

- The anount of first burned
- . The assumt of fuel remaining
- The flying time remaining,

These values are computed from the momentumy consumption units depends on existing flight parameters

The computer is powered from the aircraft supply via the battery contact or the "RAZ-F.F)" probability (1^{4} installed) on the contact) persecut. The conductor record has its own battery supply

2 DESCRIPTION



The indicator on the instrument panel consists writing of -

- A digree') resolving (1) ander indicates any one of the following :
 - the amount of fue' negativing , the amount of fue' burned
- . the flying time remaining (in hours and tenths of an hour).
- 4 ofgital read-out (2) which indicates the repertary consumption.
- a selector suitch (3) with phich one of the functions of (1) may be chosen.
- A test selector (8) which :
 - . In 'Test' position, shows If I amo 2 are functioning correctly
 - , in TOJAT position, reduces the brightness of Stans 1, 2 and 7.

9.8

89-L7

- A suplector guitant (4) used to enter the initial fuel data
 - . Yu'1
 - . goest (by acced
 - , no additition
- A switch (5) used to score in covery the fuel quantity.
- An entern deution light (7) which cases on when the restricting flying time
 ht legs than 0.8 hour.
- A white Tight 191 which indicates the cospeter is on and the Renory is accessible.
- β openbutton (8) used to enter date regarding fuel.

5 OFERGROW

The "FUEL"FOW" seasones the fuel flow rate out does not take into account the fuel contained to the feel Ropper's fuel tank. It is therefore especially to progress the example of fuel on board at the beginning of the filtest

The "electry is accessible only when the white "Sght is on. Thus, in order to enter or add a feel quantity or to enter a new uplue, the power suct be out off waing the RAZ FUEL pushbucton (on by switching off the pattery an units not equipped with this function!

MOTE : When the engine is sout down but the bonster gump is running, the unburned regulator black fuel flow is approximately 45 (Stree/hour (12 J.S. Gat./hour), "hit flow disappears when the engine is exerted.

A) Text

0:so and should reed all 8 ±.

B) Entering a fuel Quantity

- 3 in ADO position
- 6 to 68 GH or Old position as required
- 4 in A00 position
- 5 in \$1005 gapation . . and pulse for units
 - , two bulses for bens
 - . bree puises for hungreds
 - four outsee for thosework
- 5 in SET pomitton to set digital
- 9 en
- 7 on
- B in 1881 position and 8 held depresent until Tight 9 goes but and hight 7 dies.
- 3 in full fight Mint population. Reset for 1 quantity entered.

3) Receiling Parameters before Switching Off Battery.

- 3 in ACC position
- 6 in BPLGHT on DIM position as required.
- -9 an
- 7 an
- 4 'm HOME bools fan
- 8 wild decreased until light 9 goes out and light 7 dies.
- 3 in FIEL MCMACKING position. Most fuel quantity stored in memory.

3) Adding Fuel

- Switch off bower supply to filluminate light 9 (ADZ-AUEL or battery).
- 3 in ADD position
- 5 in 695 GHT or DIM population
- 4 in ADD position
- S in STORE position . . one outes for unite
 - , two pulses for tons
 - . three pulses for hundreds four ou set for thousands
- 5 in SET position to set digits
- 3 mm
- 7 on
- 8 held depressed until light 9 game out. Light 7 dies
 3 in FUEL REMAINING position. Assa sus of fusi (rassaining fusi plus second fluid 1).

Ell Estening a Prompt Refuelling Quantity

This function is evailable when the required fuel quantity has been stared in newary as per procedure set forth in puragraph B

- 9 on • 4 In Flex position
- 5 to \$812-1 or OLM position
- 5 l/smiddle goettion
- B rei'd depresend until Tight 9 goes out. Light 7 class.

F) in-F11gmt Jua

- 3 in SURMED position, quantity of fuel burned since remony entry.
- 3 in FUEL REMAINING position, quantity entered less quantity burned
- 3 in TIME RENAINING position FUEL RENAINING
 - FLEIL, FLOW
- FIEL FLIN displayed by lover respond.

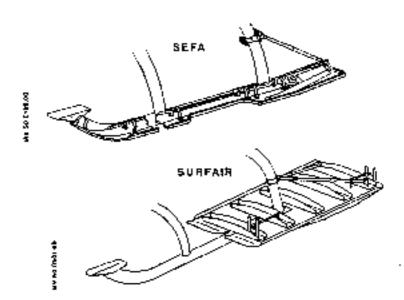
SK1 185TALLATION

1 CEMERAL

The sk^* kestallation is designed for takeoff or landing on somal or snow covered ground

2 DESCRIPTION

The sk's are secured to the pads via champs. SEFA skip have a glassfiber/regim laminate structure and SLRFARR skip have a metal structure. The rear spatula of the ski is reinforced with one or two structs. SURFAIA skip enable & pairs of Alpina skip to be carried.



3 OPERATION

Special attention is required to the tail rotor ground clearance when landing in deep show.

9.9

350 82

SECTION 9-10

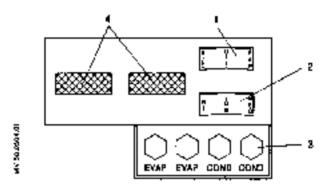
FREUN AIR CONDITIUMER

1 GEMERAL

The air conditioning system is designed to maintain a conforcable (emperature within the aubin.

2 SYSTEM CONTRULS AND INVICATORS

- Available to the pilot



ПЕМ	DESCRIPTION .	FUNC11(0H
1	Rocker switch : . DFF meucral . FAH engaged . A/C engaged	Stops system operation Switches on ventilation Switches on ventilation and air conditioning
2	Accker switch : . LO⊞ meutral . H: engaged . MeD engaged	Slow ventilation Fast ventilation Wedium ventilation
,	Protection fuses for condenser and fan blumers	
4	Ventilation outlets	

- Available to the passengers

Six swivelling and adjustable outlets used to obtain the desired wentSharnon race.

3 <u>UTBLIZATION</u>

System operation

- Set rocker switch 1 to FAM to obtain cabin ventilation to A/C to obtain air conditioning
- Select ventilation rate using racker swifth 2.

System shutdown

- Set rocker switch 1 to "OFF" (neutral postrion).
 Should the system fail, set rocker switch 1 to "OFF".

4 PERFORMANCE DATA

The repart of the air conditioning system on the performance data given in the Rasic Flight Manual is negligible

T OFFICERATION

System operation

- Set rooker switch 1 to FMI to obtain cabin ventilation to A/C to cotesh ein conditioning.
- Select ventilletion mote using maken exiton 2.

System shutaben

- Set rodoer switch 1 to GFF (neutral) position);
- Should the system fail, set rocker switch that GFF.

A PERFORMANCE DATA

The impact of the air conditioning system on the performance cata given in the basic flight Hammad is negligible.

9.10

350 82

Page 3

99−17

FAURÉ HÉRMAN FUÉL FLOMÆTSK

1 GENERAL

This system is used to manifor the quantity of fuel contained in the helicopte:.

The device can compute the following, taking into account the kinstantaneous flow rate measured and the quantity of fuel scored in its $max_0(\gamma)$:

The amount of fuel burned
 The amount of fuel remaining

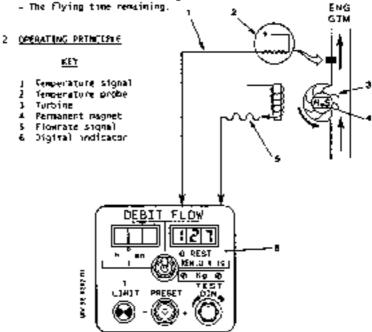
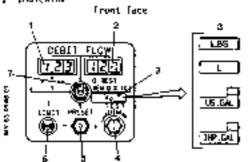
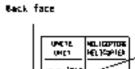


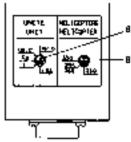
Figure 1 Functional deagram

3 DESCRIPTION

3.1 Indicator







l	TE=	PESCREPTION	FlanCT10h
	1	um side digital displaya	- When switch (?) is in the center position, they indicate the remaining Plight time (in hours and minutes)
	2	RH side digital displays	- According to the position of switch (7), they indicate. the hourly consumption rate of the engine the amount of Eucl remaining. The amount of Fuel luaded at the start, previously displayed by switch (5).
	3	Removable units label	- Indicates the measuring unit according to the position of switch (R) on the rear face
	•	-TESTDIM- nush-button	- When aviated, adjusts the brightness of the display lighting. - When pressed, tests the lighting of the displays by making the eights appear
	S	*PRESEL* switch	- Ursplays the amount of fuel when switch (7) is in bottom released position. Reading in tens of units is displayed in (2) - Switch position : . Centre : rest . I LM : amount displayed reduces showly . II RM . amount displayed increases rapidly.

TTEM	DESCRIPTION	FUNCTION
6	-T.ETMIT- amber indicator light	- Comes on when only 40 minutes of fileha remain, or during test routine providing that the hourly fuel (freshmotion remains the same - Flashes when the indicator harteries are used.
7	Three-cosition function switch	 <u>Up position</u> indicates hourly fual consumption of the engine (AH display) <u>Centre position</u>: indicates wemaining flight time (LH display) and the amount of fual wemaining (RH display); <u>Down position</u>: displays the amount of fuel available in the fuel tank. This position is protected by a locking detant.
8	-INIT- smitch	Used to splact the desired measure unit.
9	TIPE SWITCH	Switch must be set to the corresponding type of aircrafy.

4 OPERATION

<u>WOIL</u>: The standard aircraft fuel quantity gauge readings must take precedence over the fuel flowmeter computer.

4.1 In flight

- Flow (debit) read on disphay unit (2).
- Remaining time (T) read on the LH display and remaining quantity (REM.Q) read on the RH display (2).

4.2 On the occupa-

This operation is carried but when fuel is added in the tank.

- TrSp selector switch (7) to down position (position protected by ϕ locking system).

The amount of fuel remaining is indicated on the Rk display,

Actuating selector switch *PRESET* (5) :

- toward position (-) showly reduces the value displayed,
- toward position (+) rapidly increases the value displayed

After displaying the actual amount of fuel on board, return selector switch (*) to its initial position.

S TESTING THE INDICATOR

when pushbutton (4) is pressed all 8's should appear on the displays, and increasor light (6) should come on.

If this hight flashes the indicator battery must be changed (the 'smount of fuel containing' information retained on the memory is not valid).

Н

350 BZ 9.11

58CT10H 9.12

MANDET AND COLTEMBRAN HATLERS 09 2480

1 GEMERAL

Due harders are designed to transmit exister messages of a high sound level, or a continuous signal (shrem).

The Anstallation of this optional system days not affect the approxed sections of the Flight Manual. The effect on the Additional performance cata is negligible.

2 DESCRIPTION

for the stren.

The system majorly consists of a

- two amplithers located in the LM side tappage hold,
- *Apr hailers fixed two by two on the rear cross bear of the landing goar,
 one microphone located on the RH side of the coorday's seat and litted with two push-buttons is black one for the mike function and a real one
- The system is satisfied on by means of a push-builton and is protected by a fuge.

SECTION 9.27

WINT HUNS SYTEN

1 GEHEREAL

The MIN(-HUMS SYSTEM is used as a maintenance aid to perform the acquisition, analysis and recording of the parameters manisored during the flight. The results of the monitoring operation are processed after the flight in order to determine the maintenance tasks to be carried out before resuming the flights.

2 DESCRIPTION

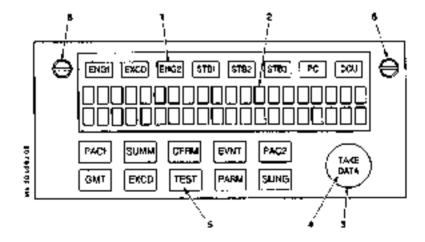
2.1 General layout

The MIMI-MUMS installation comprises the following ktems :

- . An appropriate acquisition and monitoring unit which achieves :
- data acquisition.
- data processing.
- data recording,
- Josephinterface [unclich.]
- . An assembly of sensors and wires performing the interface between the airborne unit and the averaft.
 - A ground station used to process and analyze the recording pacameters and thus determine the maintenance tasks to be performed on the aircraft.

The date are transferred from the airhorne unit to the ground station wis a removable magnetic card of the PCMCIA type.

2.2 Control and display unit



99_46

ITEM	DESCRIPTION	FUNCTEON
1	Amunciator lights	
	- EMG 1	Illuminates when an action pertinent to that engine is in process : sutomatic engine-power assurance check, limit exceptance
	- EXCD - ENG 2	Illuminates which a limit exceedance occurs. Mon-active annunciator light (function used on
	- \$18 1, ST8 2 & ST8 3	twin-engine aircraft only). USBM in (Onjunction with the automatic engine power assurance check : their status shows which phase of the power check session has been reached.
	- PĹ	Illuminates to show the absence of the POMCIA
	- D Cu	Card or a fault condition on the card. Illuminates to show a fault (condition on the computer of the airbone unit.
1	Display panel	Alpha-numeric display of the checking and monitoring data.
3	Vernier knob	Lised to change pages on the display screen and to increment or decrement the value of a Selected parameter.
4	*TAKE BATA- push-button	Lead to validate the data which have been wodified.
٠, ১	Push-but (on	
	- PAC 1	Used to access the engine-power assurance check function.
	- 51,MM	Used to summarize the various cycles and operating cimes.
	- CFRN	Used, at the end of a fright session, to confirm the parameters recorded during the flight(s) of the session.
	- EVNT	Used to mark an event which occured. In flight, during the data recording time.
	PAC 2	Non-active position (used on twin-engine aircraft only).
	— САГГ — EXCO	Used to display the date Used to display the limit exceedances which
	- TEST	may have occurred. Used to access the cest function and adjust
	- PARM	the display brightness. Used to display, in real time, the monitored
	- SLING	parameters. Used to count the SLIMG or MOIST cycles.
	Locking knobs	Used to lock/unlock the front face to get access to the POWCIA card readers.

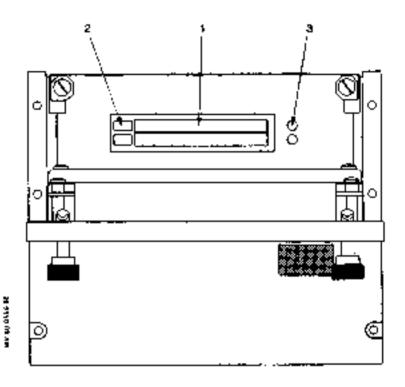


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2.3 PCMCle card readers

These card readers can be accessed after unlocking and folding down the front face of the airborne unit.

<u>MOTE</u>: To handle the card, it is recommended to have the exercises, network de-engralizes.



TIEN	UESCRIPTION	FUNÇTION
1	Loading orafices	Used to insert a POMCIA card in one of the two chaders.
2	Püsh-buckan	Used to eject the PCWCl4 card out of the reader.
3	Indicator light	Green : normal operation Red - card not Enserted or, if the card is Inserted, foult condition.

9,27

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3 UPERATION

On power-up, the airborne unit is energized and the smif-test sequence is acitivated. During this test, if no fault is detected on the computer or on the PCMCIA card, the PC and DCJ hights must be out and the data related to the aircraft are displayed (refer to the approved section of the Flight Manual).

3.1 "It\$1" function : test and brightness adjustment

The first press on the "TEST" push-button initiates a computer test sequence. A press on another push-button terminates the test function.

A second press on the "TEST" push-outton initiates the test of the annunciator lights and of the alpha-numeric display panel. The cest sequence lasts until another push-outton is pressed.

A third press on the "TEST" push-button gives access to the brightness adjustment function.

The tollowing procedure must then be observed :

Autate the vernier knob to adjust the brightness of the alpha-numeric display panel.

when the desired brightness is obtained, press the "TAXE DATA" push button to pass on to the next adjustment.

Rotace the vernier knob to adjust the brightness of the push-buttons. when the desired brightness is obtained, press the "TAKE DATA" push-button to pass on to the next adjustment.

. Notace the vernier know to adjust the brightness of the lights. When the desired brightness is abtained, press the "TAKE DATA" push-bulton to pass on to the mext adjustment. Then the sequence reverts to the adjustment of the display panel brightness and so on.

A press on Amother push-button terminates the brightness adjustment function.

3.2 *GMT* function : time and date display

One press on the GMT push-button allows the initial power-up screen, showing the time and date, to be displayed.

To modify these data, the following procedure must be carried out :

- . Press the "TAKE DATA" push-bucton.
- . The Hours fread starts to blink and the figure can be modified by means of the vernier knob.
- . Press the "TAXE DATA" push-button again to walldate the time and cass on to the next field, and so or

This function will terminate when all the fields have been selected

<u>MOTE</u>: The modification of the date and time in flight does not affect the flights of the session being recorded. The modification will only come into affect when a new session starts.



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3.3 "PAC 1" function : automatic engine-power assurance check

During the flight, a press on the PAC 1 push-button initiates an automatic power assurance check cycle. When the checking process starts, a blue indicating light illuminates on the instrument page).

<u>WOIL</u>: During all the phases of the engine-power assurance check cycle.

the procedure described in section 4.2 of the Firght Manual must be applied

The progress of the automatic power assurance check is shown, on the alpha-numeric display panel, by the illumination of STR 1, STE 2 or STR 3 annumerator light. Each phase of the engine-power assurance thack corresponds to a parameter stability check. The further the thack progresses, the open stability check is most be. In case of inadequate stability for one of the parameters, the check will automatically revent to the previous phase.

At the end of phase No.3, the indicating light on the instrument panel extinguishes, showing that the engine-nower assurance check is over. The three STB 1, STB 2 and STB 3 lights are illuminated simultaneously and the result is displayed on the alpha numeric basel. A rotation of the vernier knob displays the parameters which have given this result. The result remains displayed until a new function is selected.

<u>NOTE</u> • If another function is selected during the stabilization phases of the automatic engine-power assurance therk, the thething cycle is aborted.

3.4 "PARM" fungition . display of parameters in real time

A press on the PARM push-button causes the real-time value of the monitored parameters to be displayed on the alpha-numeric panel. A rotation of the vernier hash allows the desired parameter to be selected

<u>MOTE</u>: The AMG parameter is not to be taken into account on the 350 BA, 350 BB and 350 BI versions.

3.5 "EVMT" function : event marking

Our ing the Flight, the ollow can mark the occurrence of an event for future analysis by pressing the EvhT bush-bucton. A file concaining the following keens is thus created:

- . The number of the event since the beginning of the session.
- . The time.
- . The airspeed.
- . The OAT
 - The allitude

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3.b "SLING" fuggion : counting of SLING or HOIST cycles

A press on the SLIMG push-button gives access to the SLIMG cycles counting tunction. A notation of the vermies book causes the desired value to be displayed.

A press on the "TAKE DATA" push-huppon validates this value.
At that 6tage, a new rotation of the vermier knob will have no effect.
A prolonged press on the SLING push-button gives access, after a certain time, to the HDFST cycles counting function. A rotation of the vermier knob causes the desired value to be displayed.
A press on the "TAKE DATA" push-button validates this value.

A prove on the "TAKE DATA" bush-button validates this value. At that stage, a new rotation of the vernier knob will have no effect.

3.7 FEXCO: function : maniforing of the limit succedences

when a limit exceedance is detected, the EXCO arronciator light r^* luminates.

If the limit exceedance concerns an engine parameter, the EMG 1 annumbrates too.

The limit exceedances can be reviewed by pressing the EXCD push-burren. The last exceedance that occurred will be displayed. A rotation of the vernier knob allows all the limit exceedances recorded during the session to be reviewed.

An exceedance file includes :

- . The number of the exceedance,
- . The parameter concerned.
- The time of the exceedance,
- . The limit concerned,
- The duration of the exceedance,
- . The peak value reached.

3.8 (SUMMA Function); surmary of the various cycles and operating time.

4 press on the Subb push-hurron gives acress to a brief summary of the flights performed during the latest session. A rotation of the vernier know allows various parameters (such as those given below) to be selected.

- . Number of take-offs,
- . Flight duration,
- . (ngine cycles,
- . Number of alarms,
- Number of exceedences ...



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3.9 <u>*CFRM* function : confirmation of the case reco</u>rded dyring the flights of the Session.

This function can only be used on the ground, with the engine and the rotor stopped. A press on the CFAM push-button activates the Function permitting the data recorded during the session to be validated.

NOTE: All the data are validated by default. An information is not enamed when it is not validated. It is simply marked as -REJECTED*.

By pressing one of the r5.MMr. "PAR" is, rEVMIT. rEXCOT push-buttons, the pilot can review the recording reports associated with each function. A recention of the wernier know allows the various reports of one same function to be displayed, when the report to be rejected is displayed on the screen, press the "TAKE DATA" push-button.

The REDECTEON message should appear.

The confirmation of the alarms met during the session can be performed at the end of the limit exceptance confirmation session.

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SECTION 10

ADDITIONAL FERFERMANCE DATA

CONTENTS

10.1	RESERVED
10.2	EASIC PERFORMANCE DATA
10.3	LEFECT OF EQUIPMENT ITEMS ON PERPORNANCE DATA
;0.4	PERFORMANCE CATA WITH: - SAND FILTER INSTALLED - PROTECTION OF THE AIR INTAKE MULAINST INDUCTION OF SHOW

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SECTION 10.1 CONVERSION TABLES

1	ka/h —	— 1 1	1	երդ/հ	kt
iget/h · · · · ·	<u> kz </u>		ka/a —		
1.652	1 1	0.540	94.452	53	77.535
3.704		1.080	96.304	52	28.075
5.556)	1.620	98.156	53	28.615
7.403	• F	2.160	100 008	54	29.155
9.260	5	2.700	101.860	59	19.695
15.112	6	3.239	j 103 712 j	56	50.234
12.964	5 6 7 8	3.779	103.564	17	30.774
14.016	8	4.319	107.416	58	31.314
16.66		4,659	109.255	59	32.854
28.520	10	5.399	111.120 ;	60	32.394
20.372	1 11 1	5.939	112.977	61	32.934
22.224	12	6.479	114.024	62	33.474
24.076	13	7.019	116.676	63 .	24.014
25.925	16	7.550	118.576	44	24.554
\$7.780	15	8.099 j	120.380	65	35.094
29.632	16	6.635	122.232	66	35 653
30,464	ו עו	9,178 (124.084	67	36.171
}33.3₩	14	9.718	1 121 936 '	48	36.713
35.188	19	10.25k	127.788 .	69	17,253
37,040	20	10.798	129.640	70	27.793
					,
38,892	21	3E.338	131,492	70	18.331
49.764	22	72.875	133 144	72	39.873
42.596	23	12.411	135.496	73	19.411
41.468	24	12.956	137.048	74	39.953
46,300	25	73.498	136 900	न हें ।	40,493
48.152	1 26	14.037 ;	140.752	76	47.031
50.004	27 1	14.577	142 604	77	43.572
51.856	l žis F	15.117	144.456	7 2	42.111
53.708	29	15.657	145.308	79	42.652
35.560	1 3ō i	16.197	146 150	اقتبا	43.292
57.412	l ãi i	16.737	150.012	i iii l	43.733
59 254	3Z	17.277	151.354	82	44,272
61.116	33	17.817	153.716	l 👪 l	44.817
62.965	34	18, 157	155.568	84	45,352
64.320	33	18.897	137.420	65	45 892
55.672	36	19,436	159.272	86	45.431
68.524	37	19,976	261.124	₿7 I	46 971
70.376	🗯	20.316	162.976	68	47.511
72.228	! 59 ∣	21.056	164.828	BŠ I	48.051
74.000	40	71-596	166.640	96	46.591
. ,	"	••••		1 ~ 1	-0.752
75.932	i •ı l	22.136	168.532	91	49.131
27.784	👬	22,670	170.384	92	49.671
79.636	74	23.216	172.736	99	30.301
: 81.45B	· 🔐	73.756	174.088	97	50.751
83.340	65	24.296	175.940	95	51.291
85.192	46 47	24.635	177,792	96 : 97	51.810
87.044	%	25.375 25.011	179.644		52.370
68.896			181.406	98 .	12.450
90.748	49	26,455	183.345		53.450
92,500	50	26.995	F 185,200	100	53.990

92-17

		<u>_ </u>			
n	_ ft	— ''	· • —	rτ	— "
0.305	i	3-201	15 545	53	167.326
0.810	2	6.562	15.850	. 12	170.607
0.914	}	9,843	16.354	53	173.888
2.219	4 9 6 7	13.12• j	16.450	54	177.169
3.524	?	16 405	15.764	55	180.450
1.829 2.134	🐧	19.685	17.069	56	183,730
2.435	6	22.966 26.247	17 374 17 578	57	187.011 5
2.743	;	29.528	17.963	58	190.292 j
3.048	ايةا	14.609	15.255	60 1	193,573 196,854
		:	20.200	"	
3.353	11	36.090	18.599	61	200,135
3.658	12	29.371	15-026	F2	201.416
3.962	33	42.652	19.202	69	206 - 697
4.267	14	45,933	19.507	64	209.972
4.572	15	49.714	19.812	65	213.259
4.877	146	52.4P4	20.117	50	216.539
5.182 5.4 2 6	37	55.775	20,423	67	283.820
5.791	18	59.054 62.337	29,726	65	223,101
6.096	20	es.614	21.336	70	229.663
0,030	""	43.020	-1.350	^	243.003
B.401	j 21]	68.889	21.642	n	232.944
6,795	22	72.180	2L.946	77	130.225
7.010	25	75.461	22.250	73	239.506
7.335	24	78.742	22.555	Ja	242.787
7.620	25	82.023	22.860	75	246.068
7.925	26	25.303	75.165	7.5	249.348
8.534	27 28	58.584 92.865	23,470	177	352,639
8.839	29	95.144	14.079	7E	255.910
9,144	30	58.427	24.384	👸	259.191
l	~	38.45.		**	144.472
9.449	31	101.708	24.889	81	265.753
9.754	32	104.989	24.994	BZ	269.034
10.058] 33	108.270	25.298	63	472.535
10.363	<u> 34 </u>	111.551	25.603	B#	275.596
10.668	35	114.B32	25.904	<u>\$5</u>	378.677
10.973	1 10	110.112	26,213	H H	282.157
11.278	37 58	121.393	26.528 26.822	85	785 436 788,719
11.647	35	127.945	27.127	89	292,000
12.192	46	131.236	27.432	90	295.761
	"	[~	-7/.104
12.497	42	134.517	27.737	91	298.562
12.802	42	137.798	28.042	92	30h.843
13.106	43	141.079	25.366	93	305-124
1 11.49	44	144.360	28.631	94	308.405
13.716	15	147.641	25,956	95	317.686
14.023	46	150.921	39.261	96	314 966
14.326 14.630	47	154.202 157.463	29.566 29.870	97	315.247
14.935	48	160.764	35.175	99	323.52 5 334.80 9
15.200	50	184,045	30 480	100	328 090

10.1

kg —	— 16 -	— 16 ·		— 16 —	— ю Т
0.454	j 1	2.205	23.134 !	- 41° -	112.438
0.907	}	4.409	28.587	1 52 .	134,640
1.361	3	6.614	24.041	53	116.645
1.514	•	B.418	24, 494	54	119.049
2.266		11.023	24.94	1 65	121.254
2.722	5	13.228	25,402	ŠŠ	137.459
3 - 175	7	15.432	23.855	57	125.663
3.629		17.457	26.309	SB	127,664
4.082	' 9	19.842	26.763	1 59 i	120.073
4.536	. 10	22.046	27.216	60	132.277
4.990	! ц	24.251	27.670	B1	134.482
3.444	12	26.455	28.123	62	116.686
. 6 292	: 11	78 660	28.577	63	138.891
F.350	: 14	30.465	ts.030	I 64 - I	141.096
b 804	15	33.669	29.444	65	143.300
7.258	1#	35.274	29.938	86	145.505
7.711	17	37.479	10.393	67	147.710
B 165	24	39,683	30.B45	. 4¥	149.9IA
#.618	19	(1.885	31.296	69	252.119
9.072	20	44.69?	31.752	70	154.323
9.126	274	46.297	12.206	74	146.526
9 979	22	48.502	32.659	15	258 733
19,433	23	50,706	13.113	73	160 937
19.886	24	12.911	35.506	M 1	263.342
11.540	25	55.116	34.020	. ?5	285.247
11.794	40	57.320	34.474	76	167 551
12.747	1 32 1	59.525	34.927	77	169 756
12.701	38	61,729	35.381	78	171.960
13.154 15 608	29 j	63.934 66.139	35,834 36,288	79	374.365 136 370
1,,,,,,,,	1 20.	70.700		<u> </u>	1 1
14.G62 14.515	1 21	68.343	36.742	11	375 574
14.969	33	79.548 72.752	37.195 37.649	42	160.779 282.583
11.422	, ji	74.957	38.1C2	ì 👬	385.386
15.876	6	77.162	36.536	1 25	187.393
16.330	% !	79.366	19.620	اقتا	189.597
16.783	37	£1.571	19.467	1 27	191 802
17 297	l ä	83 776	39.947	l ia l	194,007
17.690	39	85-960	40.370	es	196.211
18.144	¦ #6	286.28	40.824	96	198.418
16.598	+1	90.349	41.276	52	500 620
19.051	42	92.594	43.731	92	262.825
19.105	43	· 94.799	42,185	93	205.030
19.958	44	97.003	42.638	94	207.234
20.432	. 45	99,208	43.062	95	109.419
20.265	44	101.419	43,546	96	211.644
21.319	. 47	105.ED	43.999	97	313.648
21.773	45	105.822	44,453	98	216.053
22.226	. 49	10B.026	44.006	99	230.257
27.680	: 50	110 231	(5,360	1 100	220.462

10.1

	Litte -	US gul		Licre -	18 -23
Licre	— US gal		litre —	U\$ a	— ∪\$ஓ் <u>க</u> ி பி
1.781 (i	0.264	193.055	51	(15.47)
7.571	1 1	0.528	136.841	52	13.737
11.3%	!	0.793	200.626	57	14.001
35.147	+	1.052	204,412	54	14.265
28.927 22.713	5 6	1.585	268.197 211.982	55	14.529
26.491	;	1.449	225.768	\$6 \$7	14,794 15,054
30.283	انا	2.113	239.353	56 1	15.322
34.069	<u>-</u>	2.378	223.339	59	15,344
37.854	to	7.647	227.124	60	AS.850
41.639	n	2.906	230.900	61	20.114
45.425	🙃	3.720	314,695	62 [16.379
49.210	13	3.434	238.480	63	10.643
52.996	[4	3,698	242.266	54	16.907
55.781	15	3.963	246.051	65	17.171
60.564 64.352	16	4.227	249.836	66	12.435
58.137	16	4.491 4.755	253.622 257.462	67 68	37.699
71.923	15	5.00.9	261.193	68	17.964 18.336
75,704	20	5.283	264.978	76	18.492
79.493	ا ــ ا	l l		I I	
33.279	21	5.548 5.412	268.763 272.549	71 2	18.756 19.020
37,064	23	6.076	276.334	75	19.724
90.850	14	6.340	280.120	74	19.549
94.635	25	6.604	283.905	75	13.613
98.470	14	0.368	287.690	76	20.077
102.206	관	7.133	291.476	22	20.361
105.991 109.777	29	7.397 7.661	295.260 299. 6 47	78	20.605
173.562	30	7.925	302.832	79 80	20.849 21.134
	"				
117.347	31	B.139	306.617	01	41.594
174.918	92	8 453 8.788	370.403 314.1 23	82	25.662
120.704	🔐	8.98Z	327.974	83 1	22,926 22,195
132.469	39	9.246	321.759	85	22.454
136.274	36	9.5tů	325.544	# 6 -	22,719
140 060	37	9,774	329.330	87	22.DB\$
143.845	34	10.038	333.115	20	\$7.747
147,031	19 40	30.393	316.901	65	23.511
151.416	🕶	10.567	340.686	90	23.775
155.201	41	10.411	344,472	91	24.039
153.967	42	11.093	340.257	<u>•2</u>	74 - 104
167.772 166.558	43	11.359	352.042	93	24.568
170.343	45	11.62)	355.824 ' 359.613	54 95	24.832 25.096
174 128	🔐	32.152	363.395	96 I	25.360
177 914	47	12,416	367,184	97	25.GZ4
181.699	44	12.600	370.969	90	75 889
185 485	49	12.944	374.755	99	26,153
169.270	50	23.739	378,540	100	25.417

\$50.08

Lytre -	Litera — "Egga"	(regal _		Litte -	OK BALÎ
4.546	<u> </u>	0.220	231.246	<u></u> : ₩ %	1 11.218
9,092	: i	0.440	236 292	;; !	/ 111.216 / 111.438
13.638	[i	0.660	240.938	55 :	13.858
15.354	4	0.660	245.484		
22.730	3	1.100	250.030	55	12.0%
27.276	6	1,320	254.576	36	72.318
. 31.422	i ž l	1.540	259.122	57	2.558
36.358	1 6 1	1.760	265.448	58	2.75
40.914	اۆا	1.980	268.234	59 j	12.973
43 450	2ó	2.200	273.760	60	13.198
		/		**	
50 006	11.	2.420	277, 306	61	13.438
54 352	12	2.540	281.653	l 62 l	13.638
99 CMB (13	2.660	Z86.398	63	13-158
63.646	14	3.090	. 290,944	54 .	14.078
65.190	15	3.300	295,490	65	14.256
72.736	16	3.520	7 300,036	66	14.528
77.2BZ	v	3.739	904.582	67	14.738
EL-878	15	3.959	309-126	te	14.958
86.374	19	4,179	313.674	614	15.178
90.920	20	4.399	316.220	70	15.39A
95.466	21,	4.629	322.766	1 74	15.438
100.012	22	4.439	127.312	1 72 1	15.836
104.551	29	5.059	331.854	13	16.058
109.104	24	5.329	335.404	74	16.278
111.650	25	5.499	340,930	75	16.496
113.196	26	5.719	345.496	76	16.718
127.742	27	5.939	350.042	77	16.938
127.285	26	6 159	354.588	76	17.158
131.834	29	6.379	359.134	79	17.37B
136.380	1 30	5-599	363.685	80	17.598
140.026	31	6-619	358 . 226	33	17.818
145.472	31	7-059	372.772	52	18.038
150.015	33	7-259	377.318	83	18.256
154.564	34	7.479	381.864	24	18, 477
159.116	35	7.699	185 . 410	85	18.697
161.656	36	7.919	390.954	ao	18.917
168.303	97	8.239	395,502	87	19.137
172.748	36	8.359	400.048	48	19.357
177.294	39	8.579	404 . 594	89	19.577
181.840	40	5.799	409.146	90	19.197
185.386	41	9,019	413.686	91	20.017
190.932	43	9.239	418.232	92	26.237
195,478	43	9.459	422.778	33	20.457
200.024	40	9.679	427.324	94	20.677
104.570	45	9 899	431.870	96	20.RQ7
200.116	45	10.119	436.426	96	21.117
2313 - 062	47	10.339	440.962	97	21.337
238.204	46	10.559	445.50	#	21.557
222,354	49	10.779	450.054	**	21.277
227.300	5¢	10-999	454,602	100	21.997

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BASIC PERFORMANCE BATA

		Flgure
-	DETERMENTATIVE THE CORRECTED WEIGHT	1
-	TAS/CAS IN FAST CRUISE	5
-	RECOMMENDED CRUISE DATA	3
	FUEL COMSUMPTION RANCE IN FAST CRUISE	4
-	FUEL CONSUMPTION — ENSURANCE IN RECOmmunity (All)198 — — — — — —	5
-	RANGE TH RECOMMENTED CHUISE	6
-	FUEL CONSUMPTION - ENDMANCE IN CRUISE AT MINIMUM HOURLY FUEL CONSUMPTION	,
-	DISTANCE TO CLEAR A SOUTH OBSTACLE ON TAKE-OFF	
	DISTANCE TO CASAD & FO ST OPSTACES AN EXHAUST	

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10.2

92-12

Page 1



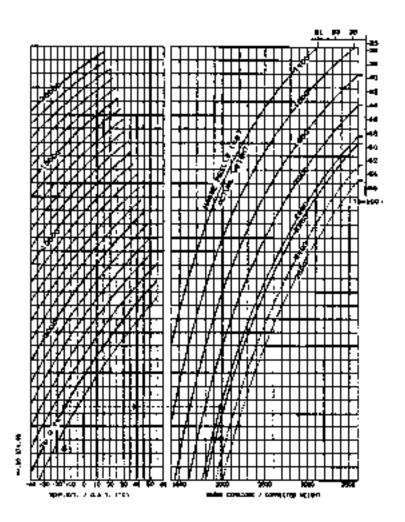


Figure 1

<u>Marry</u> : Menghi incleations with internal load are given in section ? CORRECTED WEIDHE TO DETERMENT SPEEDS (on facing page)

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гадо 2

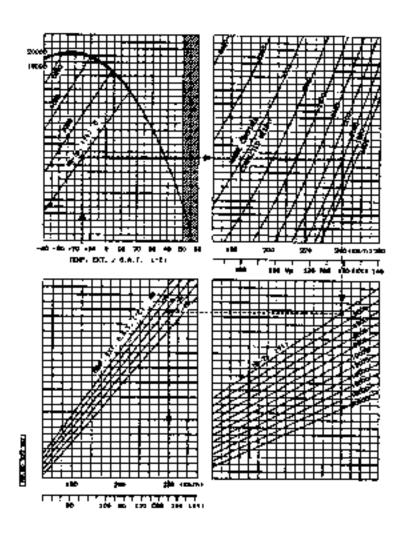


Figure Z



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92-12 Page)

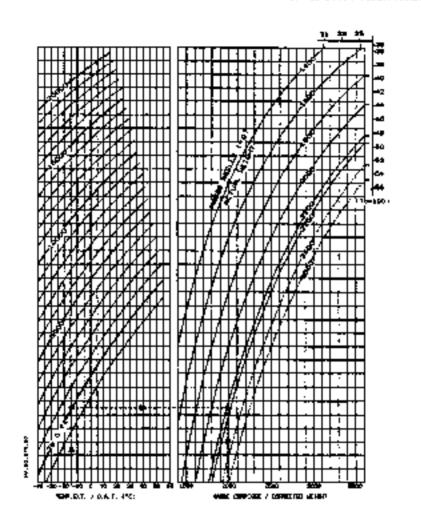


Figure 1

NOTE : Weight Immitations with internal Acade are given in section 2 CORRECTED MEIGHT TO UNITERNISHE SPEEDS (on facing page)

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10.2

92 - 12

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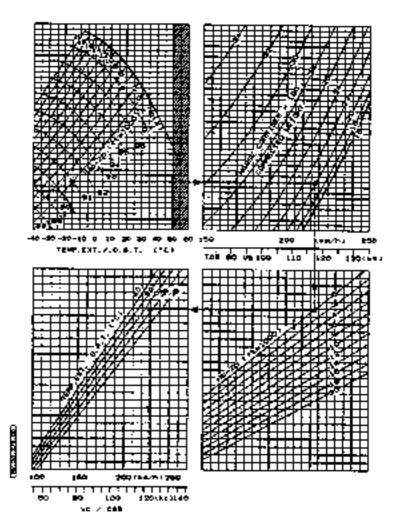


Figure 3

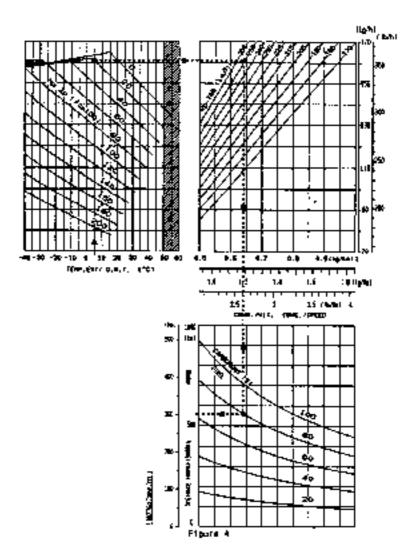
<u>COMMITTORIS</u>

- Stabilized level Might

 TAS and EAS correspond to the Mg read on the upper LH pressure altitude curves HECCHER HUED CRUTSE DATA

10.2

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COMMODIFICAL

- Stabelized Level flight

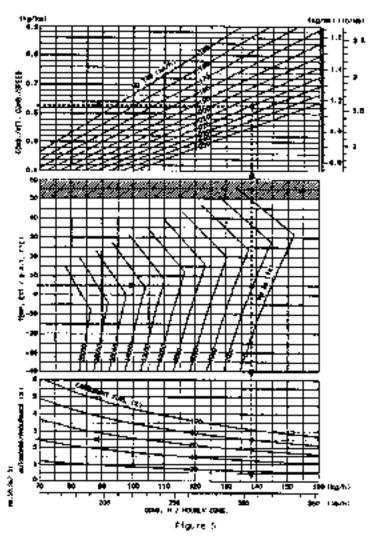
FUEL CONSUMPTION -MANGE IN FAST CONTSE

10.2

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350 82

Page 6

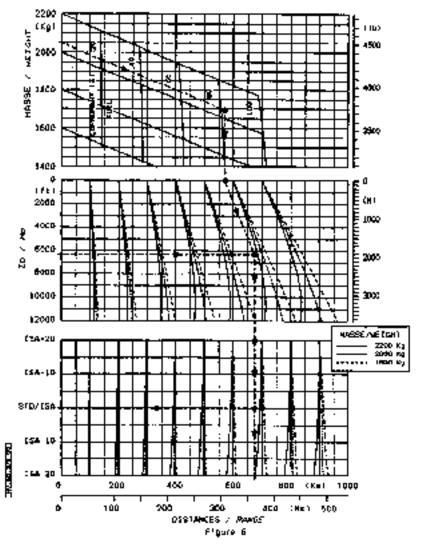


Cowbit com

Stabelized level filight

FUEL CONSUMPTION -ENDURANCE IN RECOMMENTED (NUTSE

10.2



COMPATION.

- Stabelized level flight

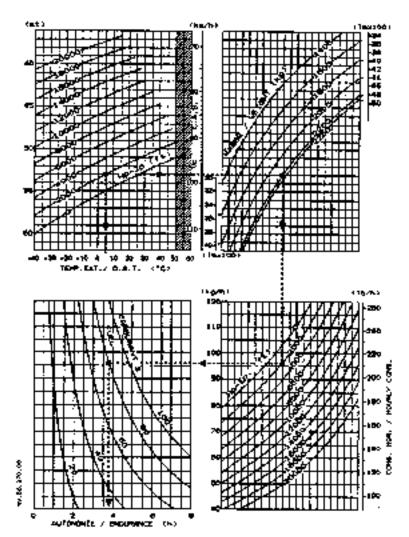
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Page 8



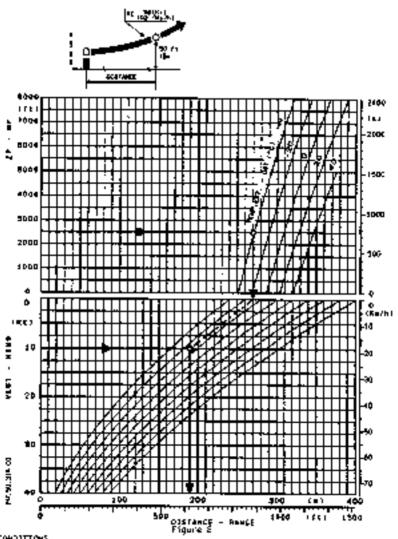
Flgure 7

COMPLITION

- Stabilized 'evel flight

- FUSL COMSUMPTION— EMPLRANCE IN CRUISE AT MINIMUM HOURLY FUSL COMSUMPTION

10.2



CONDITTONS

Hormal takeoff 55 kts 1.A.S.

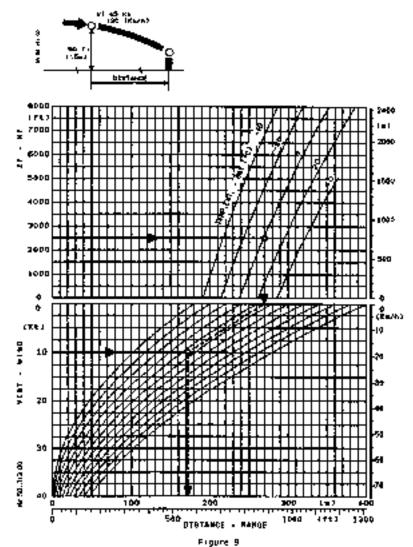
- True wind

- Applycable to all weight requirements

DESTANCE TO CLEAR A SO-FOOT DESTACLE OR TAKEOFF

430 **4**2

97-12 Page 10



CONDITTONS

- Approach 65 kts 1 A 5
- Trust wind
- Applicable to all weight requirements

DISTANCE TO CLEAR A 50-FOOT OKSTACLE ON CANDING

350 BZ

10.2

92-12 Page])

99-38

R

R

Reduction in fast or recommended cruise performance is not to be taken into account when engine is running at MAX. Torque

Increase in hourly tuel consumption and decrease in range are to be taken into account in all cases.

SECTION 10.4

PERFORMANCE DATA WITH :

SAND FILTER INSTALLED AND PROTECTION OF THE AIR THINKE AGAINST INDUSTRIAN OF SHOW

Protection against induction of snow	Figures
- CEYERNIHIMG THE CORRECTED WEIGHT	Ž
- MECOMMENCED CRUISE DATA	3.4
- FUEL CONSUMPTION - ENDURANCE TH RECOMMENDED CRUISE	Š
- RANSE IN RECOMMENDED CRUISE	6

2 54MD FILTER OPERATING

1 SAND FILTER MOT OPERATING

The performance data are to be calculated from the values of figures 2 to 6, as indicated in the cable below :

6 FF TO TO TO THE . THE		
001278	C WTH IEMLE	NA INKE
Lo⊷er chan •S°C	Bet⊭een •5°C and •35°C	Higher chan +35°C
Fig.2	Fig.2 minus 2 km/h 	Fig.6 minus 10 Mm/h 45.5 Kt)
F1g.3 '	71g.3 minus 2 km/h (1 Kt)	Fig.3 minus 3D km/h (5.5 Kt)
Fig.4 plus 2.3%	Fig. ■	Frg. 4 minus 3%
fig.5 plus 2.1%	Fig.5	քնց Տարմասը 3%-
F1g6 re1nus 2.5%	Fig.6 minus 3%	F1g.6 ■1∩ψ5 5%
	Fig. 2 Fig. 3 Fig. 4 plus 2.3% Fig. 5 plus 2.3%	Fig. 2 Fig. 2 minus 2 km/h (1 Xcl Fig. 3 710.3 minus 2 km/h (1 Kr) Fig. 4 plus 2.3X Fig. 5 Fig. 5 Fig. 5 Fig. 6 minus Fig. 6 minus

99-38

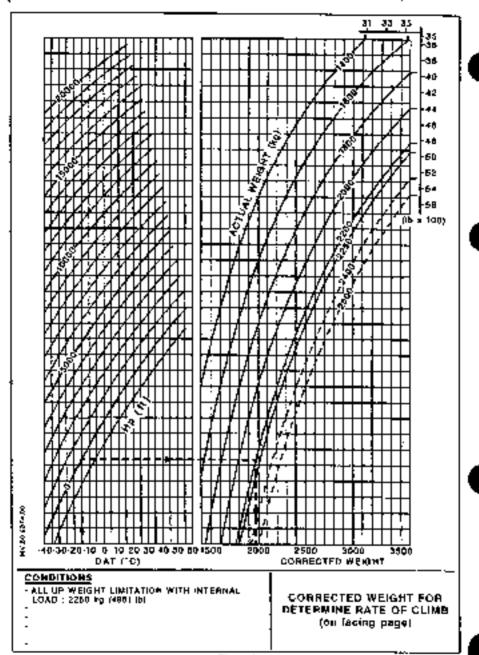


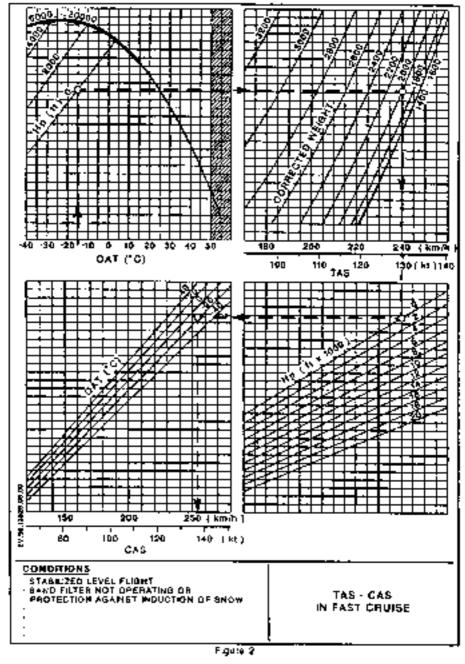
Figure *

10.4

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350 B2

Page 2



10.4

99-38

350 BZ

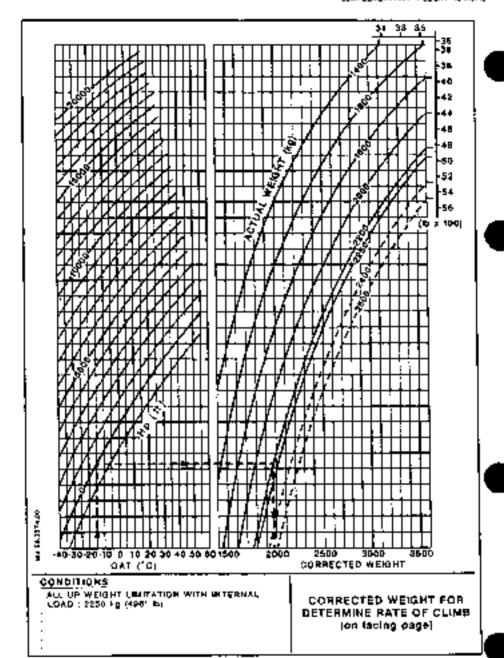
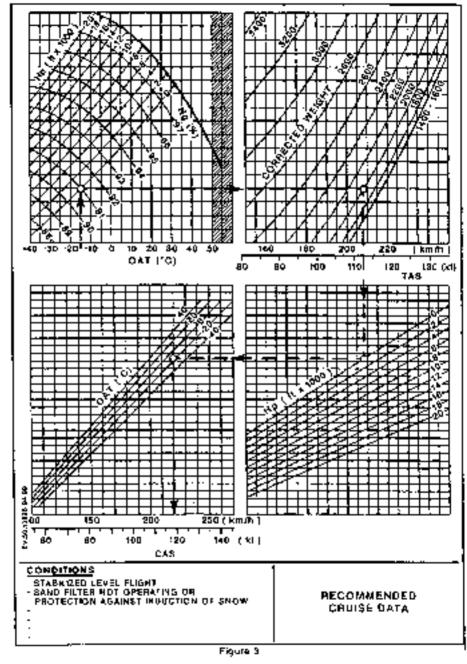


Figure 1

10.4

450 B2



350 HZ 10.4

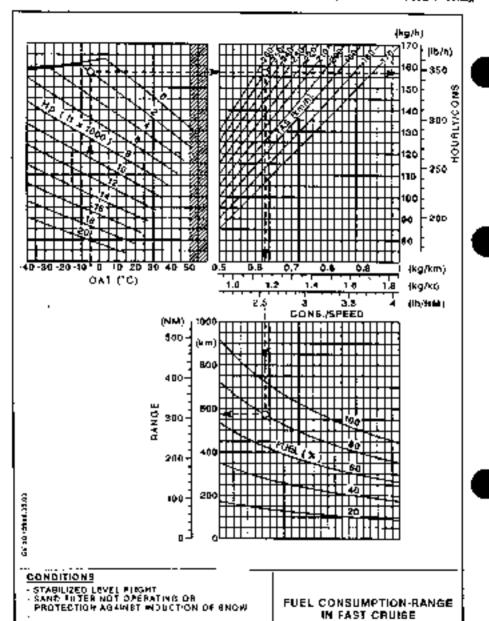


Figure a

10.4

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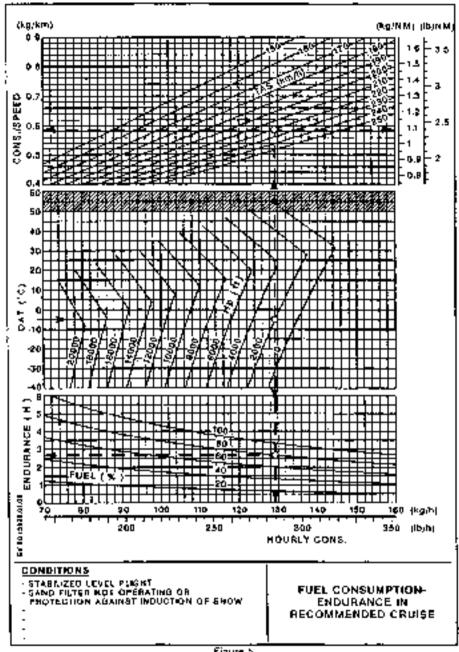


Figure 5

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350 B2

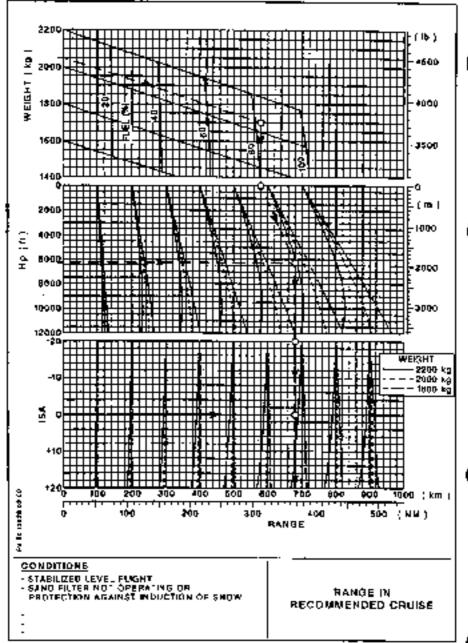


Figure 6

AMERICAN EUROCOPTER CORPORATION 2701 Ferum Drive

Grand Prairie, Yekas 75053

PLIGHT MANUAL SUPPLEMENT FOR AEROSPATIALE MODELS ASISOB, B1, B2, BA, C, D, D1 HELICOPTERS EQUIPPED WITH AGR CRUSSERS EMERGENCY FLOATS

Registration: ______

Sections 1, 2, 3 and 4 of this document comprise the Approved Flight Manual Supplement. Compliance with Section 1, Limitations, is mandatory. Section 0, General, contains additional information and is not. DOT Approved.

This supplement must be estached to the DGAC Approved Rotorcraft Flight Manual, Code C, when the helicopter is modified by the installation of the Air Cruisers, Emergency Floats in accordance with Aerospeciale Helicopter Corporation Drawing List No. 350A-82-1157, Revision AL, or later FAA approved revisions and Supplemental Type Approval (STA) Number \$188-18.

The information and data contained in this document supersedes or supplements that contained in the basic Approved Flight Manual Supplement in those areas listed herein. For Limitations, Procedures, and Performance not contained in this document, refer to the Approved Flight Manual and other applicable Approved Flight Manual Supplements.

Department of Transport (Cazada) Approved:

CANADA

OKAMANDA UP TRAKSPORT

ACIDAMANDAL ENGINERING

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DOT Approved: Suss 29, 1998 Revision 1: Employ 05, 1994

Page 2 of 5

AMENDMENT RECORD SHEET

	AMENDED		
Amen No.	Dade Dade	Affected Pages	Signature
ī	94/01/05	Pg. 1, Company taute change, add models AS350B1, B2, BA, Dwg. List Ref. Change Pg. 2, Change Formal Pg. 4, (Sert. 1.7) semove c g. graph Pgs. all, Change numbering, Pg. 6 deleted.	
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0.0 CENERAL (UNAPPROVED)

This supplement is applicable when the Air Cruisers Emergency Floration Gear is installed on low or high skid gear.

0.1 This equipment consists essentiably of:

- Two (2) float modules, including antiation bordes located on each side of the alreads, secured to the sked tubes
- An electrical floor inflation system.
- A manual floor inflation system.

1.0 LIMITATIONS

is addition in the specific limitations indicated below, the limitations specified in the Basic Manual tempo applicable.

1.1 Floats Folded - System Not Armed

No specific limitations

1.2 Float Stowed - Sastem Armed

Never exceed speed in this case is \$69 km/£ (105 mph, 91 kts) L.A.S.

1.3 Inflation of Floats

Maximum speed for initiation is 136 keets (K5 mpb, 74 kg) 1.A.S.

1.4 Phototion Gear Inflated

Never exceed speed:

- Low Skid Gear 225 ket/h (140 mph, 122 kts) [.A.S.
- High Skid Gear 169 km/h (COd mph. 9] 4(a) 1 A.S.

1.5 Maximum Inflation Abitude

The maximum abitude for final inflation is 3048 majers (10,000 feet) P.A. Inflation above this alcinute may result in resulting buoyancy to insure flotation.

1.6 Take-off Following Water Landing

A take-off is prohibited fellowing a water landing.

1.7 Center of Gravity Limits

The attraction of gravity limit is reduced to 0.505m (138.0 arches) with law skid goar, and 5.472m (136.7 inches) with high skid goay

1.8 Lateral Center of GravMy, Llmits (3508) and B2 only)

1.8.t Low Skid Gean

Weight \leq 4,700 lb No Change Weight \geq 4,700 lb \pm 5.20 in.

1.8.2 High Skid Gear

 $W \neq g \geq 1 \leq 4,700 \text{ lb}$ No Change $W \Rightarrow 4,700 \text{ lb} \leq 3.90 \text{ in}$.

2.0 NORMAL PROCEDURES

In addition to the procedures indexised below, the normal procedure specified in the basic manual remains applicable.

2.1 External Checks

- The floar closure fabric is correctly secured
- The boilds inflation pressure is context, 3140 ± 240 psi at ± 15 degrees obtains with a correction of approximately ± 100 psi per ± 10 degrees retains.

2.2 Flight Over Water

Take-off - before take-off over water, arm the electrical sectation system.
 After achieving a safe numbination of surspeed and shifteds, but in no case tater than 169 km/h (105 mph, 91 km), disarm the electrical accusion system.

NOTE: Whenever the float electrical actuation system is turned, the "Float Armed" segment in the annunciator panel should be illuminated.

- Cruise If an auspeed greater than 169 km/h (185 mph, 91 kts) is desired
 curroute, the floet armed system must be off.
- Approach In preparation for a landing, the electrical actuation system should be armed between 169 km/h and 121 hm/h (75-105 mph. 65-91 kis).

2.3 Flight Over Land

Set the floor armod switch to off.

3.0 EMERGENCY PROCEDURES

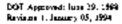
In the event of an emergency necessitating discharg of the aircraft, carry out the emergency procedure outlined in the basic manual as well as that detailed below:

- Bélow 169 km/h (105 mph, 91 kts), arm float electrical inflações system.
- Reduce airspeed to 121 km/h (75 mph, 68 los).
- Inflate the Boats by soluting the firing switch on the cyclic sidek (Inflation sine approximately 5 seconds from actuation of switch)
- If the electrical actuation system fails, or floor inflation cannot be visuality verified, the floats may be inflated by publing the reanual actuation handle.

MOTE: The handle most travel approximately 10.16 cm (4 inches) before actuation will occur.

 Avoid rareming of the water at the front of finals on touchdown. Jetoson the doors by normal jettison procedure after tauchdown.

4.0 FERFORMANCE - No Change.



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AS350 Series Repetitive Airworthiness Directives and Service Bulletins

A/C Reg.:	A/C W.O. No.:	
A/C T.A.T.:	Date:	

^{*} Denotes certification by approved pilots is acceptable

AD or SB Number	Subject Description	Compliance Due At	Initial
*AD T2000-340-080 (A) R2	Inspection of T/R drive shaft fwd fairing IAW Alert Service Bulletin # 05.00.35. (Applicable to AVO only)	Daily & 100 hrs	
*AD 92-078(B) R2	MO5 chip plug inspection IAW SB 292-72-0157 (Applicable to IUX)	Daily or 8 hrs	
*AD 84-064-037(B) R3	Insp. of T/R spar without disassembly IAW SB 05-11R5	30 hrs	
SB 65-00-38	T/R spider bearing/plate assembly inspection	100 hrs	
AD 84-064-037(B) R3	Insp. of T/R spar without disassembly IAW SB 05-11R5	100 hrs	
*AD T2001-640-089 (A)	Insp. of T/R Blade trailing edge IAW Alert Telex 05.00.40 Paragraph 2.A NOT TO EXCEED 10 HOURS	Daily or 10hrs	
AD 89-155-054(B)R4	Greasing of M/R swash plate bearing with Aeroshell #7 IAW SB 62-12R2 (N/A to HMZ, HAF, IUX, GSC, AVO, GSW, GSP, FHN, RTM, RTL)	100 hrs	
AD 93-090-067	Insp. of sliding windows IAW SB 05-25R1 (N/A to GSC, AVO, GSP, FHN)	100 hrs	
AD 98-173-073(a)	Insp. of mounting and greasing of T/R drive shaft bearings with Aeroshell #22 IAW SB 05-00-08R5	100 hrs	
AD 2002-044(A)	Insp. of Siren Cargo Hook for corrosion on the lock catch. IAW SB 05-00-41 (Applicable to AVO only)	Daily with underslung load	
AD2002-344-093(A)	Insp. Of Sliding Door Aft Guide Roller and Middle Rail. IAW Alert Telex 05.00.41 (Applicable to HMZ, GSW, AVO, & FHN)	100 hrs	



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AD1990-064 (A) R1	Engine compressor erosion check IAW maintenance manual Chapter 71-00-08 SB A292-72-230 issue 1 (N/A to AVO)	400 hrs	
AD 84-064-037(B) R3	Insp of T/R spar with disassembly IAW SB 05-11R5	500 hrs	
AD 85-135-042(B)	Check that "FUEL" is engraved on A/F fuel filter every time the filter is replaced IAW SB 01-14 (N/A to AVO)	500 hrs	
AD 86-097-047(B)	A/F fuel filter bowl tightening procedure IAW SB 28-08 (N/A to AVO)	500 hrs	
AD 86-125-48(B) R1	Behavior of helicopter on the ground with rotors turning IAW SB 01-17A	500 hrs or at each occurrence	
AD 90-198-056(B)	Check presence of shunt on the battery temp probe IAW SB 01-29R1 (N/A to AVO OR ANY WIRING HARNESS WITH 3 WIRES ON THE BATTERY PROBE)	500 hrs or at each battery installation	
AD 2001-580- 085(A)R1	Tail Servo control- Eye end fitting for proper locking IAW Alert Telex No. 05.00.37	550 hrs	





OPERATIONAL TIPS FOR A STAR OPERATORS

Here is a quick review of how to count cycles on the Arriel engines. The pilot should record both power turbine and gas turbine cycles with each entry made in the flight log book

I. Power Turbine (Np)

Power turbine cycles are straightforward: 1 FLIGHT = 1 CYCLE

where a flight is: One start followed by

One engine acceleration to take off power followed by

One shutdown.

2. Gas Turbine (Ng)

Gas turbine cycles are calculated using the following formula: Ng Cycles - KI + K2 calculations

where K1 is the coefficient from table 1 corresponding to the maximum Ng reached during the flight and K2 is the coefficient from table 2 corresponding to the Minimum Ng reached at or below 85% during the flight.

TABLE 1

Max Ng	Kı
during flight	Cuefficien(
001	. 10
99	0.9
98	0.8
97	0.7
96.	0.65
95	0.6
94	0.55
93 or lower	0.5

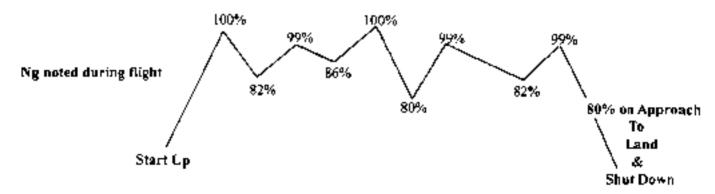
TABLE 2

Min Ng at or below 85%	K2 Coefficient
81-85	.05
76-80	.10
75 & lower	.15

Notes:

- Do not include the Ng reached as part of the normal shut down
- 2. Do not count any cycles for ground runs (Np orNg).

Example:



Max Ng during flight = 100%

K1 = 1.0

K2 = .10

Ng cycles = $1.0 + (2 \times 0.05) + .10 = 1.20$

Min Ng during flight - two times at 82% one time at 80%

 $K2 = 2 \times 0.05$

No cycles = 1.0



