WORK ORDER

82970000071

SAP

(SMI)

A/C Reg:	9M-LKE
A/C S/N:	8297
A/C Type:	AS 350 B3

Schedule Maintenance Inspection/Defect Rectifica	tion Man Hours
- 660H//24M - ASB 62.00.42 R0 para 3.B.2.b	
- ISH /70 ENG INSPECTION	
- 10H/7D A/F INSPECTION	

RETAINING RINGS - INSPECTION



SUMMARY WORK ORDER SIGNOFF SHEET						
CUSTOMER	A/C Registration	A/C MSN	Work Order No			
KIHUAT TIMBER (M) SDN. BHD.	9M-LKE	8297	82970000071			

MI No: AD 2018-0206 R0 (PO) **MI Title: MAIN ROTOR - MAST UPPER BEARING SEALANT BEAD / INNER RACE**

Work Description:

Affected part: Equipped Main Rotor (M/R) shafts also named Main Rotor Mast (MRM), having Part Number (P/N) 350A37-1290-XX (where XX can be any numerical combination) and a s/n as listed in the applicable ASB, except those that have been subject to a specific inspection, confirming that the upper bearing inner race retaining rings are installed correctly.

Life	0:00AH 0M	Work Card	AD 2018-0206 R0	
		Work Card Task Reference	N/A	

Task n°	Due at	Dup Insp	Tech Sign	Eng Sign	Eng Stamp	Date	Remarks/Action Taken
Task n°: LKE0001 AS350-MAIN ROTOR SHAFT P/N: 350A37-1290-04 S/N: FR2794	759:12AH 17/09/2020	N/A	7 AHM 455	fly:	9	15/9/2020	(Yawa SATISKALAV)

MI No: ASB 62.00.42 RO (PO)

MI Title: CHECK OF THE BEARING RETAINING RINGS OF THE MAIN ROTOR

Work Description:

The purpose of this ALERT SERVICE BULLETIN is to ensure the presence and proper installation of the two bearing retaining rings on the main rotor mast.

Life	0:00AH 0M	Work Card	ASB NO. 62.00.42 R0
		Work Card Task Reference	N/A

Task n°	Due at	Dup Insp	Tech Sign	Eng Sign	Eng Stamp	Date	Remarks/Action Taken
AS350-MAIN ROTOR SHAFT P/N: 350A37-1290-04 S/N: FR2794	759:12AH 17/09/2020	N/A	7. AHM 455	fré	(ME)	15/0/2020	Found SmishaGars

"Certifies that the work specified, except as otherwise specified was carried out i.a.w CAAM Part 145 and in that respect the aircraft/ aircraft component is considered ready to release to service."

Issue date: 10/09/2020 15:12 PM AHM.F.099, Rev 0 Page: 3 of 4

	Engineering Services Inst	ruction		No. Of Pages : <u>17</u>
 1	AIRCRAFT /ENGINE /EQUIPMENT T	YPF·	2. ATA CHAPTER: 62	
	AS350 B3	· , · L.	3. EFFECTIVITY: 9M-LKE (S/N: 8297)	
١.	DESCRIPTION: This ESI provides instruction for the ch R0 para 3.B.2.b. to comply with EASA			ASB AS350-62.00.42
	REFERENCES / SOURCE DOC: 1. EASA AD 2018-0206 R0 2. ASB AS350-62.00.42 R0			
Э.	REASON: The absence of one of the two bearing to the main rotor mast and surrounding		on the main rotor mast o	can result in damage
7.	REASON FOR REVISION: Initial.			
3.	COMPLIANCE: Once: Before 17 September 2020 i.a.w. ASB R0.	AS350-62.00.	42 R0 para 3.B.2.b. // EA	SA AD 2018-0206
).	AFFECTED DEPARTMENT			
	lo. Department	D:	Task	0/040 to be
	1. CAMO	out. - To update A	ork order for ESI/AS350B ircraft Log Book, Notice t d mod record book.	
_	2. Program & Planning (P&P)	To ensure sp available.	ecial tools per Appendix	1 of this ESI are
	3. Maintenance	To carry out ESI/AS350B	the instruction in accorda 3/249.	nce with
		N	ote: Please refer to continu	ation sheet (if applicable
	REPARED BY:		VERIFIED BY:	
>	\ \And		x ful	
Te	REPARED BY:		VERIFIED BY: X CAM Manager Muhammad Imran ISMA)



Aircraft Registration:	3W-LYE	; S/N :	8297	

1. General

Item	Work Required	Perfo	rmed By	Insp	ected By - C	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
1.1	Read and comply with the safety instructions on helicopters parked in a repair shop as per Wor Card 20.07.02.201 (MTC). Remarks: Found Sans Fa Gens	7	AH <i>M</i> 455	fly.	(M51)	14/9/220
1.2	Observe all safety precautions and notes appropriate to this task in accordance with ASB AS350-62.00.42 R0. Remarks:	7	Attus 455	flý.	(MS1)	H1015070

^{*} The work recorded above has been carried out in accordance with the requirements of the ** Malaysian Civil Aviation Regulation / FAA Regulations / _____ for the time being in force and in that respect the aircraft / equipment is considered fit for Release to Service.

** Delete as required.



Aircraft Registration:	an-the	; S/N : _	8237.	

2. Preliminary steps (i.a.w. ASB AS350-62.00.42 R0 para 3.B.1.)

Item	Work Required	Perfo	rmed By	Insp	ected By - Cl	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
2.1	Park the helicopter in a hangar. Remarks: _ Found SanSkn AM	4.	Athun 455	frá.	(MST)	14(0)2020
2.2	Install the appropriate access equipment. Remarks: Form Sin Sin Con	4	44M 455	fr.	(M51)	14/9/2024
2.3	Remove the equipment and furnishings necessary for proper access to the various work zones. Remarks:	7.	AHM 455	fr.	(M51)	14/0)202

^{*} The work recorded above has been carried out in accordance with the requirements of the ** Malaysian Civil Aviation Regulation / FAA Regulations / ______ for the time being in force and in that respect the aircraft / equipment is considered fit for Release to Service.

** Delete as required.

ENGINEERING SERVICES INSTRUCTION ESI/AS350B3/249

Aircraft Registration:	;	S/N :
_		

3. Check of the two bearing retaining rings (Figure 1, Figure 2, Figure 3, Figure 4) (i.a.w. ASB AS350-62.00.42 R0 para 3.B.2.b)

Item	Work Required	Perfor	med By	Inst	ected By - CF	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
3.1	Procedure with the main rotor mast (c) removal: Remove the main rotor mast (c) as per Task 62-31-00,4-1 (AMM), Remarks: N/A ENDOSCOPIC PROCEDURE APPLIED. SPARA 8.41.					
3.2	Ensure the presence and proper positioning (in their groove) of the two bearing retaining rings (a) over the entire circumference of the main rotor mast (c) (Figure 2 Details C and D (bearing retaining rings poorly positioned) and Figure 3 Details C and D (correct positioning of the bearing retaining rings)), Remarks: N/A MAIN ROTOR NOT REMOVED.					
3.3	If and only if the two bearing retaining rings (a) are present and correctly positioned, install the main rotor mast (c) as per Task 62-31-00,4-1 (AMM). Remarks:					

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** Delete as required.



Aircraft Registration : 9x - LKE ; S/N : 291

Item	Work Required	Perfori	med By	Inspe	ected By - CF	RS*
ASSESSED CO.		Sign	Staff. No	Sign	Auth. No.	Date
3.4	Endoscopic procedure without the main rotor mast (c) removal: Check of the lower bearing retaining ring: Remarks: Sand Sand Sand Sand Sand Sand Sand Sand	7	AHM 455	fr.	(Man)	म्मा र्था क रव
3.5	Remove and keep the "NR" sensor (not shown) as per Task 62-31-00,4-2 (AMM), NOTE 1: The number of peel shim elements (not shown) of the "NR" sensor must be identifing in order to facilitate adjustment during assembly. Remarks:	ijed 7	AHM 455	flý.	(M51)	14/9/2020
3.6	Insert the endoscope (zz) into the opening of the "NR" sensor, CAUTIONS: DO NOT INTERFERE WITH THE ENDOSCOPE (zz) AND THE PHONIC WHEEL WHILE THE MAIN ROTOR MAST IS ROTATING. Remarks:	7	Atm 455	fly.	(Most)	14/11/2020
3.7	Slowly turn the main rotor mast (c), Remarks: Found Smissa Common	_ 7	AHM 455	fr.	a Mari	14/9/2020

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** Delete as required.



Aircraft Registration : _ @M-LYG ; S/N : _ &>D7

Item	Work Required	Perfor	med By	Insp	ected By - CF	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
3.8	Ensure the presence and proper positioning (in its groove) of the lower bearing retaining ring (a) over the entire circumference of the main rotor mast (c) (Figure 2 Details C and D (bearing retaining rings poorly positioned) and Figure 3 Details C and D (correct positioning of the bearing retaining rings)), Remarks:	7	AHM 435	fly.	(451)	14/0/2000
3.9	Install the "NR" sensor (not shown) as per Task 62-31-00,4-3 (AMM). Remarks:	7	AHM 455	fhi.	(45)	14/0/2020
3.10	Check of the upper bearing retaining ring: Protect the swashplate bearing and the space between the swashplate guide (d) and the main rotor mast (c) using adhesive (2) (Figure 4, Detail B), Remarks:	7	AHM 455	\$ hri.	(MS1)	14/9/2020
3.11	Remove the sealant bead (b) with the Plexiglas knife (xx), Remarks:	7	AH M 455	fr:	(M51)	१५१०१०

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** Delete as required.



Aircraft Registration: 9x - WFE ; S/N: 8297 ·

Item	Work Required	Perfo	rmed By	Insp	ected By - C	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
3.12	Remove the scissors driver as per the principle of Task 62-31-00,4-2 (AMM), Remarks:	9	AHM 485	fly.	(M513)	14/0/2020
3.13	Maintain the scissors driver on the upper sleeve with plastic clamps (vv), Remarks: _ でい いい いっこう こうしゅう こう こうしゅう こう こうしゅう こうしゅう こうしゅう こうしゅう こうしゅう こうしゅう こうしゅう こうしゅう こう こうしゅう こうしゅう こうしゅう こう こうしゅう こう こう こう こう こう こう こう	7	AHM 435	fry.	(MS1)	14/0/2020
3.14	Remove the sealant bead on the main rotor mast (c) and scissors driver assembly using the Plexiglas knife (xx), Remarks:	7	A1104 455	hr.	(M51)	1419)2020
3.14	Remove the fixed scissors on the swashplate guide side (d) as per the principle of Task 62-33-00,4-1 (AMM), Remarks:	7	4Hm 455	fr.	(MST)	14/2/5050

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** Delete as required.



Aircraft Registration : _______; S/N : ________;

Item	Work Required	Perfo	rmed By	Insp	ected By - Cl	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
3.15	Maintain the fixed scissors on the upper sleeve with plastic clamps (vv), Remarks:	7	Attm USS	Mr.	(M51)	14/0/2020
3.16	Remove and keep the swashplate guide's retaining washers and the pins, Remarks:	7	AHM 455	fr.	(MST)	14/0/2020
3.17	Remove the adhesive (2) installed previously, Remarks: Found sonignory	7	AHM 455	hr.	(MEI)	1419/2020
3.18	Slide the swashplate guide upward, CAUTION: CARE SHOULD BE TAKEN NOT TO DAMAGE THE BEARING SURFACE OF THE SCISSORS DRIVER AND THE TEFLON FABRIC. Remarks: Form Smithern	7	Atm 455	Juja.	(MS1)	14/9/2020

^{*} The work recorded above has been carried out in accordance with the requirements of the ** Malaysian Civil Aviation Regulation / FAA Regulations / _____ for the time being in force and in that respect the aircraft / equipment is considered fit for Release to Service.

** Delete as required.



Aircraft Registration : 9N-WE; S/N: 8211.

Item	Work Required	Perfor	med By	Inspe	ected By - CF	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
3.19	Protect the lip seal, the main rotor mast (c) and the binding with adhesive (2), Remarks:	_ 7	AH M 485	hr.	(MEI)	14/9/2020
3.20	Remove the sealant bead with the Plexiglas knife (xx), Remarks: For No. Shishiro	_ 7	AHM 455	fri.	(MS1)	14/0/2020
3.21	Lift the O-ring, NOTE 2: If the O-ring is damaged, contact AHM CAMO. Remarks:	7	44m 455	hr.	(a M51)	14/0) 2020
3.22	Ensure the presence and proper positioning of the upper bearing retaining ring (a) (Figure Details C and D (bearing retaining rings poorly positioned) and Figure 3 Details C and D (correct positioning of the bearing retaining rings)). Remarks:	2 	AHM 455	hr.	(MS)	14/9/2020

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** Delete as required.



Aircraft Registration: 9M-LKE; S/N: 8297

Item	Work Required	Perfor	med By	Inspe	ected By - CF	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
3.23	If the two bearing retaining rings (a) are present and correctly positioned: Install the scissors driver as per the principle of Task 62-31-00,4-3 (AMM), Remarks:	_ 7	AHM 455	Pro.	(M51)	14/2/2020
3.24	Install the fixed scissors on the swashplate guide side (d) as per the principle of Task 62-33-00,4-1 (AMM), Remarks:	_ _ _	Atim 455	frý.	(M51)	14/1/2020
3.25	Install and keep the swashplate guide's attachment washers and pins, Remarks:	_ 7	411M 455	fr.	(MS15)	15/0/2020
3.26	Discard the plastic clamps (vv). Remarks: Towns States	_ 7	AHM 455	fr.	(M51)	k 19 12020

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** Delete as required.



Aircraft Registration : <u>an-lufe</u> ; S/N : <u>%)91 ·</u>

Item	Work Required	Perfor	med By	Insp	ected By - Cl	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
3.27	Perform the job completion as per paragraph 4.					
	Remarks: Found sanish Gors	7	455	fr.	(M51)	15/0/2020
3.28	If one or both bearing retaining rings (a) are absent or incorrectly positioned: Comply with ESI/AS350B3/250. Remarks: ML FUNDING: FORM SATISFACES.	fix	144	Alzi	(Maril)	15/9/22

4. Final steps (i.a.w. ASB AS350-62.00.42 R0 para 3.B.3 and 3.B.4)

Item	Work Required	Perfor	med By	Insp	ected By - Cl	RS*
		Sign	Staff. No	Sign	Auth. No.	Date
4.1	Clean and recondition the work areas and the helicopter as per Work Card 20.07.0 (MTC). Remarks: Shisha Chi	7	A11M 455	flyi	(M51)	15/9/2020

** Delete as required.

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Aircraft Registration:	dw- ME	; S/N :	9297·	

Item	Work Required	Perform	med By	Insp	ected By - Cl	RS*
	,	Sign	Staff. No	Sign	Auth. No.	Date
4.2	Install the furnishings and equipment which were removed during preliminary steps (paragraph 2). Remarks: Town Stateman	4	AHM 459	flr.	(M51)	12/0/2020
4.3	Remove the access equipment. Remarks:	7	AHM 435	Alv.	(M51)	15/3/2020
4.4	Set the helicopter into flight condition. Remarks: Satisfactors	7	AHM 455	hri.	(M51)	15/9/2020
4.5	In case of absence or incorrect positioning of bearing retaining rings, contact AHM CAMO for further instructions. Remarks:	Juri	144	fixi.	(msi)	18/9/2010

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** Delete as required.

2.2

ENGINEERING SERVICES INSTRUCTION

Aircraft Registration : 9M-Lue; S/N: 8297

В



SINGLE HYDRAULIC SYSTEM

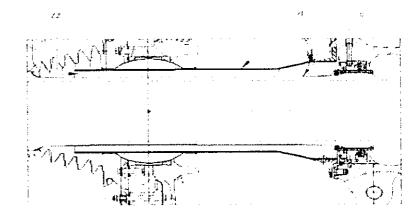


Figure 1 - Endoscopic inspection of the sealant bead

Α

С

QUAL HYURAULIC SYSTEM

^{*} The work recorded above has been carried out in accordance with the requirements of the ** Malaysian Civil Aviation Regulation / FAA-Regulations / ______ for the time being in force and in that respect the aircraft / equipment is considered fit for Release to Service.

** Delete as required.

ENGINEERING SERVICES INSTRUCTION ESI/AS350B3/249

Aircraft Registration : 9M-Luc ; S/N : 8297

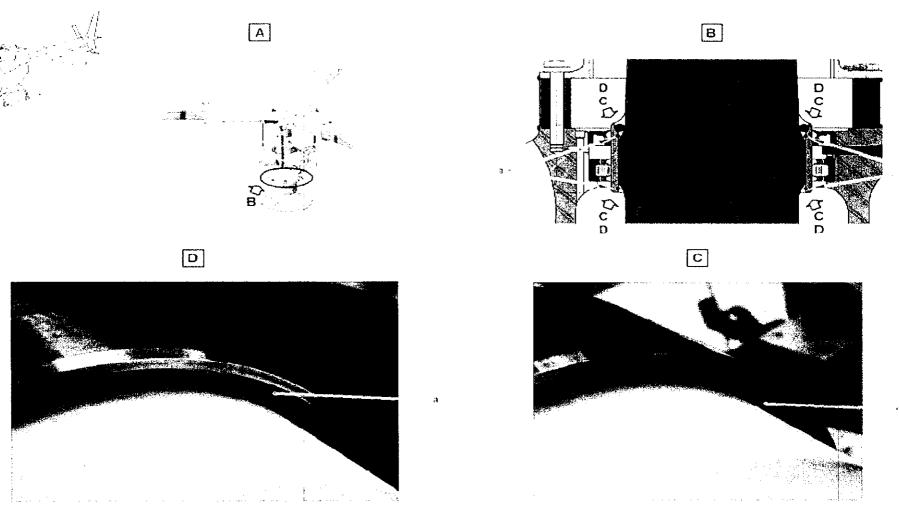


Figure 2 - Incorrect positioning of the bearing retaining rings

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** Delete as required.



Aircraft Registration : 9M-LkE; S/N : \$297.

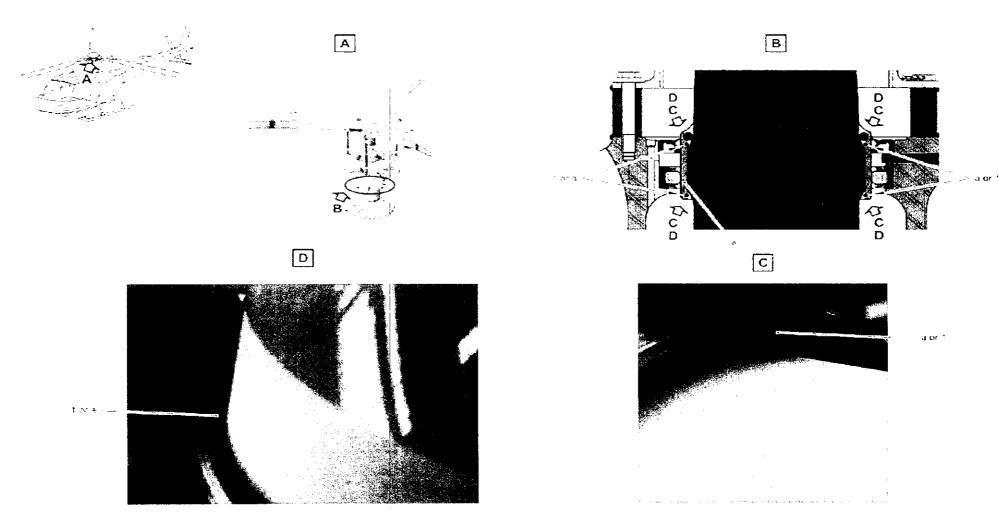


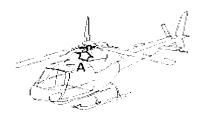
Figure 3 - Correct positioning of the bearing retaining rings

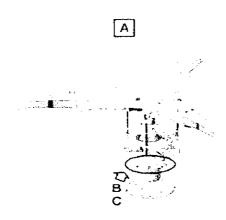
^{*} The work recorded above has been carried out in accordance with the requirements of the ** Malaysian Civil Aviation Regulation / FAA Regulations / ______ for the time being in force and in that respect the aircraft / equipment is considered fit for Release to Service.

** Delete as required.

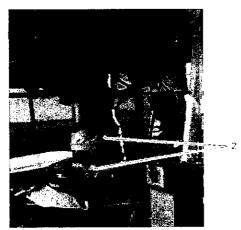
ENGINEERING SERVICES INSTRUCTION ESI/AS350B3/249

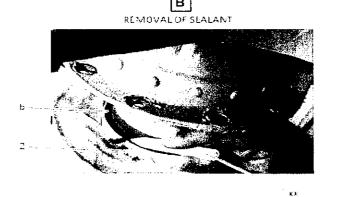
Aircraft Registration : $9m-2k\bar{c}$; S/N : 8297











SINGLE HYDRAULIC SYSTEM

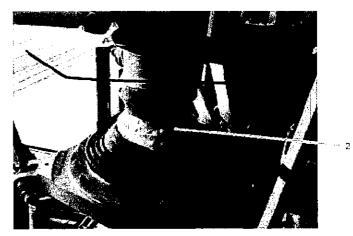


Figure 4 - Endoscopic check of the bearing retaining rings

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** Delete as required.



APPENDIX 1: MATERIAL INFORMATION

A. NEW PARTS (IF REQUIRED)

No.	Keyword	Qty.	New P/N	Old P/N	Rem.
1	Ring, bearing retaining	2	350A37-1268-20	350A37-1268-20	Replacement, if necessary

B. CONSUMABLES

As per Work Cards and Tasks mentioned in the ASB AS350-62.00.42 R0.

C. SPECIAL TOOLS

No.	Keyword	Qty.	P/N	ltem
1.	Endoscope	1	Commercial P/N	ZZ
2.	Dentist's mirror	1	Commercial P/N	уу
3.	Plexiglas knife	1	Commercial P/N	xx
4.	Adhesive tape (masking tape type)	1	Commercial P/N	ww
5.	Plastic clamp	AR	Commercial P/N	vv

The work recorded above has been carried out in accordance with the requirements of the ** Malaysian Civil Aviation Regulation / FAA Regulations / for the time being in force and in that respect the aircraft / equipment is considered fit for Release to Service.



82970000071 Work Order No.:

2. Item	3. Defect / Work	4. Name & Date	5. Details of rectification with reference to approved data	6. Tech.	7. CRS #
1.	LACESISE NATIONS OF CONSISTENT AMONDAD LACESISE NATIONS - CON NAM NATIONES LOCASISE NATIONS - CON NAM NAMES		Duplicate inspection performed in accordance with MOE 2.25	Sign	Sign
		fr.	1510/2020/1500 1510/2020/1510 1510/2020/1510 1510/2020/1510	ID No	App No
		15/0/2020		Date	Date
	8. P/N Removed : 9. S/N Removed :		10. P/N Installed : 11. S/N Installed : 12. Manhours :		15/9/2020
				Sign	Sign
				ID No	App No
				Date	Date
	8. P/N Removed :		10. P/N Installed :		

13. # The work recorded above has been carried out in accordance with the requirements of the * Malaysian Civil Aviation Regulations / FAA Regulations / the time being in force and in that respect the aircraft / equipment is considered fit for Release to Service.

* Delete not applicable