

**Attachment 29. Malmrose Servo Overhaul Records**

**DCA12MA020 Maintenance Factual Report**

MALMROSE HELI SERVICES, INC.  
11781 EUREKA WAY  
SOUTH JORDAN, UT 84095

**WORK ORDER**

Form # U814

Customer

SUNDANCE HELICOPTERS  
5596 HAVEN ST.  
LAS VEGAS, NV. 89119.

Name & Address

Date

10/19/11

Work Order No.

2995

Preliminary Inspection

Part Name **SERVO ACTUATOR**

TSN 21160.9

Part No. **AC67246**

TSO 1926.3

Serial No. BX264

Work to be Performed

Repair     Overhaul     Other \_\_\_\_\_

Method of Inspection

- Functional Operation prior to disassembly  
 State of Preservation / External Damage / Leakage  
 T.S.O.  
 Tractability of Life Limits

Bw  
Mechanic / Technician

Inspector Initials

MALMROSE HELI SERVICES, INC.  
 11781 EUREKA WAY  
 SOUTH JORDAN, UT 84095

Work Order# 2995  
 Date 10/19/11

**WORK ORDER**  
 Form # U814

Hidden Damage Inspection / In-Progress Inspection

Disassembly (Note any visual damage during disassembly, listing part no.)

PRE TEST / PISTON ROD SPEED - IN = 1.43 - TIMING WITHIN ACCEPTABLE  
 OUT = 1.40 LIMITS OF 15% MAX DIFF.

NOTE: BYPASS = OK - UNIT TESTED, DISASSEMBLED, CLEANED, VISUALLY  
 INSPECTED, UPPISTED AND REASSEMBLED - DYNAMIC RP114 COMPLETED SERVO  
 BODY NOT/ BODY CURRENT TESTED - NO ANOMALIES DETECTED ALL  
 SEALS RPL. UNIT ASSEMBLED & TESTED SAFETY WIRED.  
 OVERHAUL COMPLETED.

Non-Destructive Testing results (List part no., reason for failure and recommended corrective action)

EDDY CURRENT TESTING

SERVO BODY

P/N ACM28707

S/N 403

PAE

[Signature]  
 Mechanic / Technician

Major Parts Required

Part No.	Description	Qty Used	New	Reworked
<u>ACM28677</u>	<u>PISTON RD</u>	<u>1</u>		<u>1</u>

[Signature]  
 Mechanic / Technician

3  
 Inspector Initials

**MALMROSE HELI SERVICES, INC.**  
11781 EUREKA WAY  
SOUTH JORDAN, UT 84095

Work Order# 2995

Date 10/19/11

**WORK ORDER**  
Form # U814

**Maintenance Release Statement**

FAR 43 Appendix B paragraph (b)(4)

The appliance identified above was repaired / overhauled and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under:

Work Order No. 2995

Date: 11 Nov 2011

Signed: [Signature]

Malmrose Heli Services, Inc.  
11781 Eureka Way  
South Jordan, Utah 84095, USA

**FAA Approved Data**

(If applicable)

Service Bulletins

A.D. Notes

A.D. NO. - \_\_\_\_\_

A.D. Revision Date - \_\_\_\_\_

Method of Compliance - DUNLOP

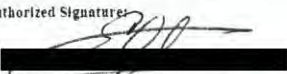

CMM 65-40-02

	Initials
OVERHAUL	EQ
REPAIR	MD
INSPECTED	EQ

DATE: 01 Nov 2011

[Signature]  
Repairman Signature

EQ  
Inspector Initials

1. Approving National Aviation Authority/Country: <b>USA</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: <b>2995</b>	
4. Organization Name and Address: <b>MALMROSE HELI SERVICES, INC. 11781 EUREKA WAY, SOUTH JORDAN, UT 84095, USA</b>					5. Work Order/Contract Invoice Number: <b>WO# 2995</b>	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/ Batch Number:	12. Status/Work:
1	<b>SERVO ACTUATOR</b>	<b>AC67246</b>	<b>NA</b>	<b>1</b>	<b>S/N BX264</b>	<b>OVERHAUL</b>
13. Remarks:  <b>COMPONENT OVERHAULED IN ACCORDANCE WITH DUNLOP CMM 65-40-02, TSO = 0.0 HRS</b>						
14. Certifies the items identified above were manufactured in conformity to:  <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Authorized Authorization No.:	20. Authorized Signature: 		21. Approved Certificate No.: 	
17. Name (Typed or Printed):		18. Date (m d y):	22. Name (Typed or Printed): <b>EARL H MALMROSE</b>		23. Date (m d y): <b>NOVEMBER 09, 2011</b>	
<b>User/Installer Responsibilities</b>						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part component assembly.</p> <p>Where the user/ installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/ installer ensures that his/ her airworthiness authority accepts parts components assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/ installer before the aircraft may be flown.</p>						

**AIRWORTHINESS DIRECTIVES, BULLETINS AND MODIFICATIONS**

Date	AD, Bulletin or Mod. No.	Description	Signature and Approval No.

**SUB-COMPONENT HISTORICAL RECORD**

Sub-Component Description	Installation Data				Removal Data				
	Part Number	Serial Number	Assembly Time at Installation	Sub-Component Time		Remove at Assembly Time	Date Removed dd/mm/yy	Assembly Time at Removal	Sub-Comp. TSN at Removal
				Time Since New	Life Remaining				

P/N AC67246

S/N BX264

DESC: M/R SERVIO

COMPONENT HISTORY

RECORD - HOURS

Form CHE-24

Description <b>M/R SERVO</b>	Model	Part Number <b>AC67246</b>	Serial Number <b>BX 264</b>
Retirement Life <b>N/A</b>	Overhaul Life <b>1800 HOUR</b>	Inspection Life <b>N/A</b>	

Installation Data						Removal Data					
Date Installed dd/mm/yy	Aircraft Type/ Registration	Installed at A/C Hours	Component Times			To Be Removed at Hours	Date Removed dd/mm/yy	Removed at Aircraft Hours	Component Times		Reason For Removal
			Since New Hours	Since Overhaul/ Inspection	Remaining Hours				Since New Hours	Time Since Overhaul/ Inspection	
28 OCT 01	AS350B2 FPBA	5027.0	8890.1	0.0 NA	1800	6827.0	15 AUG 03	6555.0	10418.1	1528.0 N/A	LEAKING
<i>(The rest of the table is crossed out with a diagonal line)</i>											






MAINTENANCE AND OVERHAUL RECORD

Date	Work Carried Out	Company & Work Order No.	Time Since New	Since Overhaul	Remarks	Signature
16-01-01	OVERHAULED	EUROCOPTER R15576,004	8890.1	0.0	P.O.#047253	
9/17/03	OVERHAUL	MHS WO#-798	10418.1	0.0	chk TMS's Drawing/Memo GS-40-02	
<i>(The rest of the table is crossed out with a diagonal line)</i>						




POSITIONS SUCCESSIVES ET OPERATIONS D'ENTRÉE ET DE MISE EN ÉTAT MINEURES ET MAJEURES  
 SUCCESSIVE LOCATION MINOR AND MAJOR MAINTENANCE AND OVERHAUL OPERATIONS

Unite ou Société Contractor	Date Date	Positions Location	Fonctionnement Operation			Motif du Mouvement (code, symptômes) Travaux Effectués - Pièces Changées Reason for Transfer (code and symptoms) Accomplished Work - Replaced Parts
			Support Support	Partiel Partial	Total Total	
ASMA	1-80	Labo Hyd				Verification
ASMA	02-80	11350/1265	0H		0H	Safe
PHI	8-4-83	360SR	1791:10	1791:10	1791:10	Rem. time change 8-5-83 WO# 833863 Chauled By PHI SB 67.05 c/w
PHI	9-21-83	3593S	3084:10	-0-	-0-	inst.
"	5-30-87	3593S	4948:20	1864:10	1864:10	Rem. Pilot Valve Binding 7-7-87 WO# 7-1418 Repaired By PHI
PHI	8-14-87	3593S	5118:30	1864:10	1864:10	Inst.
"	1-2-88	3593S	5453:20	2199:00	2199:00	Rem. chaul due 1-2-88 WO# 880114 Chauled By PHI
Damio	7-7-88	A5350/1493	1790:31	-0-	0-	Inst
AHC	2-6-91	350D/1493	3360.4	1569.9	3768.9	REMOVED FOR INSPECTION, REPAIR, UPDATE OR OVERHAUL AS NECESSARY
DAI	4-5-91	Hyd. Lab.			3768.9	Offhand Testal per Dm 65-40-02. Replaced Servo Valve, Piston Rod, Body, Cover, Screws, and all Seals. All modifications in compliance.
AHC	5-23-91	350D/1075	3007.4	-0-	3768.9	INSTALLED AFTER COMPONENT OVERHAULED BY DAI
Abitibi	17-10-93	350D/1075	4370.8	1363.4	5132.3	Removed for convenience
Abitibi	17-10-93	350D/1542	3495.0	1363.4	5132.3	Installed M277395
Abitibi	6 July 94	C-GHAQ	4105.5	1973.9	7106.2	Removed for OIH
HASC	FEB 2/95			0.0	7106.2	Assy OIH T.A.W Mfg's Specs on HASC W/O 2556
Abitibi	19 Nov 95	C-GHAS	4765.2	X	7106.2	instolled TSO
Abitibi	21 Feb 96	350D/1548	5363.4	598.2	7704.4	Restored due to feed back on cyclic
HELI TRADES	4 AP. 96	HYD. LAB		598.2	7704.4	REPAIRED BY HELI TRADES INC. UNDER W/O H-4874
Abitibi	17 Oct 96	350B2.2480	1897.7	X	7704.4	instolled TSO 598.2
Abitibi	29 April 99	350B2.2480	3083.4	1185.7	8890.1	Removed for overhaul
Dowlop	22-12-00	COVENY	TSO=ZERO		8890.1	OVERHAULED & MODIFIED 401-42787
ECL	16/01/00	UROOSTER CANADA LIMITED AMO	0.0	8890.1	8890.1	REC'D O/H'D UNDER W/O# R15576:004.
CHL	28 OCT 01	AS350B2/FPBA		0.0	8890.1	INSTALLED ON FPBA @ 5027.0 A/F HRS.
CHL	15 AUG 03	AS350B2/FPBA	6555.0	1528.0	10418.1	REMOVED (LEAKAGE)
MHS	9/17/03	HYD LAB		0.0 TSO	10418.1	CH TAW Dowlop MAN 65-40-02 DEF WO# 798
MHS	8/25/06	AS350B2/FPBA	7112.9	1894.4		
MHS	9/17/06	HYD LAB		0.0 TSO	10418.1	



6 CONTROLE D'EXECUTION DES MODIFICATIONS MODIFICATION CHECKING				
Numéro No.	Date Décision Date of	Nature de la Modification Type of Modification	Unité ou Société d'Exécution Performing Unit or Contractor	Date d'Exécution et Tampon Contrôle Performing Date Inspection Stamp
C-2015	4-5-91	Servo	DAI	16/01/01
C-2122	4-5-91	Environnemental	DAI	
AD.88-184-052(B)R1		found c/w.	ECL 	

FICHE MATRICULE  
Log Card

FICHE No.   
Log Card No. **DUPLICATE**

1 Identification du Matériel  
Material Identification

Dénomination Name **SERVO COMMANDE**

Nomenclature Nomenclature **704 A44 831 095-113**

Référence Fabricant Part Number **[REDACTED]** Code Fabricant Manuf Code **AC67246**

Numéro de Série Serial Number **BX264** Amendements Amendments **Mod 1.2.3**

Marque Trade Mark **Dunlop** Type Type **3**

Identification du Support ou du Sous-Support de Rattachement  
Related Assembly or Sub Assembly Identification

Code Code \_\_\_\_\_ Dénomination Name \_\_\_\_\_

2 Marche ou Commande  
Contract or Order **21/501357** Date **28.4.78**

Référence Reference **Aerospatiale** Date \_\_\_\_\_

Organisme Emetteur Issuing Agency **Dunlop Aviation** No. du Lot Kit No. **Coventry**

Fournisseur Contractor \_\_\_\_\_ Adresse Address \_\_\_\_\_

3 Garantie : Guarantee

Matériel Material	Date de Livraison Date of Delivery	Durée Garantie de Stockage Guarant. Stor. Period	Date de Mise en Service Service Date	Durée Garantie de Fonctionnement Guarant. Oper. Perio
Neuf New	14.12.79			

4 Renseignements Particuliers Special Information  
(Document réception usine, dérogations, précaution à la mise en service, etc.)  
(Acceptance document, concessions, precaution before putting into service...)

" CK AEROSPATIALE MASTER SERVICE RECOMMENDATIONS FOR MODEL FITMENT AND/OR SERVICE LIFE LIMITS."

Limite de Fonctionnement Operating Limit **1800HRS** Limite de Vie Life Limit

AIRWORTHINESS DIRECTIVES, BULLETINS AND MODIFICATIONS

PIN AC67A16

Date	AD, Bulletin or Mod. No.	Description	Signature and Approval No.
4 Dec 2007	SB 05.00.51	Complied with Eurocopter Service Bulletin 05-00-51, Turbine Housing Inspection	[Redacted]
09 Nov 2010	SB 67.00.15	INPUT LEVER ATTACHMENT SCREW INSPECTION - SCREWS IN CORRECT ORIENTATION	[Redacted]
24 Nov 2010	SB 67.00.49	INPUT LEVER HINGE PIN INSPECTION - BATCH NO. D58757 NOT INSTALLED	[Redacted]

SUB-COMPONENT HISTORICAL RECORD

Installation Data			Removal Data						
Sub-Component Description	Part Number	Serial Number	Assembly Time at Installation	Sub-Component Time		Remove at Assembly Time	Date Removed dd/mm/yy	Assembly Time at Removal	Sub-Comp. TSN at Removal
				Time Since New	Life Remaining				

SN BX2164

DESC: M/R SERVO

**COMPONENT HISTORY**

**RECORD - HOURS**

Form CHE-24

Des: <b>M18 SEPVO</b>	Model:	Part Number: <b>AC67246</b>	Serial Number: <b>BX264</b>
Retirement Life: <b>NA</b>	Overhaul Life: <b>1800 HOUR</b>	Inspection Life: <b>NA</b>	

Installation Data						Removal Data					
Date Installed dd/mm/yy	Aircraft Type/ Registration	Installed at A/C Hours	Component Times			To Be Removed at Hours	Date Removed dd/mm/yy	Removed at Aircraft Hours	Component Times		Reason For Removal
			Since New Hours	Since Overhaul/ Inspection	Remaining Hours				Since New Hours	Time Since Overhaul/ Inspection	
20CT01	<b>A5350 B2</b>	<b>5027.0</b>	<b>8890.1</b>	<b>0.0</b>	<b>1800</b>	<b>6827.0</b>	<b>15AUG03</b>	<b>6555.0</b>	<b>10418.1</b>	<b>1528.0</b>	<b>LEAKING.</b>
	<b>C-FPBA</b>			<b>NA</b>						<b>1434.2</b>	
05	<b>A5350BA/2337</b>	<b>6988.3</b>	<b>10418.1</b>	<b>0.0</b>	<b>1800</b>	<b>8788.3</b>	<b>10/24/04</b>	<b>8422.5</b>	<b>11852.3</b>	<b>1434.2</b>	<b>INSTALLATION TO OTHER ACFT</b>
	<b>N230SH</b>			<b>NA</b>						<b>1444.2</b>	
10/24/04	<b>350E1/243</b>	<b>16017.4</b>	<b>11852.3</b>	<b>1434.2</b>	<b>365.8</b>	<b>16383.2</b>	<b>10/27/04</b>	<b>16027.4</b>	<b>11862.3</b>	<b>1444.2</b>	<b>INSTALLATION TO OTHER ACFT</b>
	<b>N2152A</b>			<b>1444.2</b>							
10/27/04	<b>350BA/2337</b>	<b>2422.5</b>	<b>11862.3</b>	<b>1444.2</b>	<b>355.8</b>	<b>2778.3</b>	<b>01/05</b>	<b>8645.3</b>	<b>12035.1</b>	<b>1447.0</b>	<b>ACFT B2</b>
	<b>N230SH</b>			<b>1444.2</b>							
01/2005	<b>350B2/2337</b>	<b>8645.3</b>	<b>12085.1</b>	<b>1667.0</b>	<b>133.0</b>	<b>8778.3</b>	<b>03-30-05</b>	<b>8865.8</b>	<b>12305.6</b>	<b>1887.5</b>	<b>CH</b>
	<b>N230SH</b>			<b>1667.0</b>							
04/22/05	<b>350BA/2300</b>	<b>14932.3</b>	<b>12305.6</b>	<b>0.0</b>	<b>1800</b>	<b>16732.3</b>	<b>04-08-06</b>	<b>16087.1</b>	<b>13460.4</b>	<b>1154.8</b>	<b>TRANSFER</b>
	<b>N374H</b>			<b>1154.8</b>							
04-08-06	<b>350B2/3296</b>	<b>7112.9</b>	<b>13460.4</b>	<b>1154.8</b>	<b>645.2</b>	<b>7758.1</b>	<b>25Aug06</b>	<b>7852.5</b>	<b>14,200.0</b>	<b>1894.4</b>	<b>DUE O/H</b>
	<b>N3132V</b>			<b>1154.8</b>							
7SEP06	<b>A350B2/2337</b>	<b>10,349.0</b>	<b>14,200.0</b>	<b>0.0</b>	<b>1800</b>	<b>16732.3</b>	<b>10-31-07</b>	<b>12631.4</b>	<b>16,082.4</b>	<b>1882.4</b>	<b>Due O/H</b>
	<b>N230SH</b>			<b>0.0</b>							
01/08/08	<b>350B2/2337</b>	<b>4906.8</b>	<b>16082.4</b>	<b>0.0</b>	<b>1800</b>	<b>6706.8</b>	<b>9/28/08</b>	<b>6310.2</b>	<b>17,485.8</b>	<b>1403.4</b>	<b>Leaking at weep hole</b>
	<b>N250SH</b>			<b>0.0</b>							
10-6-08	<b>B2 8845H</b>	<b>10274.6</b>	<b>17,485.8</b>	<b>0.0</b>	<b>1800</b>	<b>6706.8</b>	<b>10/11/09</b>	<b>12023.4</b>	<b>19,234.6</b>	<b>1748.8</b>	<b>Due O/H</b>
	<b>S/N 2884</b>			<b>0.0</b>							
04/22/2010	<b>N37SH</b>	<b>22462.5</b>	<b>19,234.6</b>	<b>0.0</b>	<b>1800</b>	<b>6706.8</b>	<b>09/14/10</b>	<b>23257.0</b>	<b>20029.1</b>	<b>794.5</b>	<b>Leaking at weep hole</b>
	<b>S/N: 2300</b>			<b>0.0</b>							

**MAINTENANCE AND OVERHAUL RECORD**

Date	Work Carried Out	Company & Work Order No.	Time Since New	Since Overhaul	Remarks	Signature
16-01-01	OVERHAULED	EUROCOPTER R15576/004	8890.1	0.0	P.O.# 047253	[Signature]
18 SEP 03	OVERHAUL	MHS WO-798	10418.1	0.0	O/H TAW Dursep Man 65-40-02, CRS	[Signature]
01/2005	350BA/B2 Convs.	American Eurocopter LLC	12085.1	1667.0	WO#S32990, CRS VY118575K.	[Signature]
4/18/05	OVERHAUL	MHS WO-1208	12303.4	0.0	O/H TAW Dursep Man 65-40-02, CRS	[Signature]
9/7/06	OVERHAUL	MHS WO-1624	14200.0	0.0	O/H TAW Dursep Man 65-40-02, CRS	[Signature]
04 DEC 07	OVERHAUL	MHS WO-2048	16082.4	0.0	O/H TAW Dursep Man 65-40-02, CRS	[Signature]
02 OCT 08	OVERHAUL	MHS WO-2411	17485.8	0.0	O/H TAW Dursep Man 65-40-02, CRS	[Signature]
15 FEB 10	OVERHAUL	MHS WO-2717	19234.6	0.0	O/H TAW Dursep Man 65-40-02, CRS	[Signature]
04 NOV 10	REPAIR	MHS WO-2824	20029.1	794.5	Repair TAW Dursep Man 65-40-02, CRS	[Signature]

POSITIONS ET OPERATIONS DE REPARATION DE REMISE EN ETAT MINURES ET MAJEURES  
 SUNDANCE LOCATION MINOR AND MAJOR MAINTENANCE AND OVERHAUL OPERATIONS

FICHE N°  
 LOG CARD N°

1

Contractor	Date	Position Location	Functional Operation (HOURS)			Total TSO	Motif de roulement (code, symptômes) - Travaux effectués - Pièces changées Reason for transfer (code and symptoms) - Accomplished work - Replaced parts
			Support Support	Travel Partial	Total TSN		
		AS 15052 B2/3345	14653.1		20029.1	796.1	INSTALLED [REDACTED] AEP
Sundance	2-22-11	B2/3345	14654.7	1.6	20030.7	796.1	Removed serviceable [REDACTED] AEP
Sundance	2-22-11	B2/3403	12166.4		20030.7	796.1	Installed with TSO [REDACTED] AEP
Sundance	2-22-11	B2/3403	12166.4		20030.7	796.1	Corrected entry Installed with TSO [REDACTED] AEP
Sundance	2-23-11	B2/3403	12166.4		20030.7	796.1	Corrected TSO to 796.1 [REDACTED] AEP
Sundance	08/22/11	1380 B2/3403	13110.9	944.5	20975.2	1740.6	EXTENDED 10% TO TSO PER MSM CH:05 [REDACTED] AEP
Sundance	12/02/11	300 B2/3403	13296.6	185.7	21160.9	1926.3	REMOVED THE TSO [REDACTED] AEP
MHS	09 Nov 2011	Hwy 2 Lab			21150.9	0.0	QH JAW Damper Cmm 6540-02, AEP [REDACTED] AEP



CONTROLE D'EXECUTION DES MODIFICATIONS MODIFICATION CHECKING			
Numéro N°	Nature de la modification Type of Modification	Unité ou Société d'Exécution Performing Unit or Contractor	Date d'exécution Tampon contrôle Performing date inspector stamp

FICHE MATRICULE LOG CARD		FICHE N° LOG CARD N°	1
1 Identification du Matériel		Material Identification	
Dénomination Name		SERVO COMMAND	
Nomenclature OTAN Nomenclature			
Référence Fabricant Part Number		AC57246	Code OTAN Fabricant NATO Manuf Code
Numéro de Série Serial Number		BX264	Amendements Amendments
Marche Trade Mark		Dunlop	mod 1,2,3
Identification du Support ou du Sous-Support de Rattachement Related Assembly or Sub Assembly Identification		Type	Type
Code Code		Dénomination Name	
2 Marche ou Commande		Contractor	
Référence Reference		21/501357	Date Date
Organisme Emetteur Issuing Agency		Aerospatiale	N° do Lot Kit N°
Fournisseur Contractor		Dunlop Aviation	Adresse Address
3 Garantié		Guarantee	
Matériel Material	Date de livraison Date of Delivery	Durée garantie de stockage Guarant. Stor. Period	Date de mise en service Service date
New	14.12.79		
4 Renseignements particuliers		Special Information	
(Document réception usine, dérogations, précaution à la mise en service, etc.) (Acceptance document, concessions, precaution before putting into service..)			
OK Aerospatiale Master Service Recommendations for Mochel Filment and/or service Lifelimits			
Limite de fonctionnement Operating Limit		1800 HRS	Limite de vie Life Limit

Malmrose Heli Services, Inc.  
11781 Eureka Way  
South Jordan, UT 84095

## SERVICEABLE

Owner SUNDANCE HELICOPTERS  
Work Order # 2995  
Name of part Servo Actuators  
Part No. AC67246  
Mfr. Serial No. BX264  
Manufacturer Dunlop

This component was: Overhauled  Repaired

TSO 0-0  
Repairmans Signature [Redacted]  
Inspector Signature [Redacted]

## MAINTENANCE RELEASE STATEMENT

This component was repaired /  
overhauled and inspected in  
accordance with current regulations  
of the Federal Aviation Administration  
and is approved for return to service.

Pertinant details of the work performed  
are on file at this repair station under:

Work order no. 2995

Date 09 Nov 2011

Signed [Redacted]


Malmrose Heli Services, Inc.  
11781 Eureka Way  
South Jordan, UT 84095



## Certification of Test

FAA CERTIFICATION # [REDACTED]

#4540

CUSTOMER <b>Malmrose Heli Services, Inc</b>		DATE <b>November 2, 2011</b>	
CUSTOMER PO # <b>2011-34</b>		PART NAME <b>Servo Bodies</b>	
MCTL JOB # <b>4927</b>		PART NUMBER <b>AC66375; ACM28707</b>	
TEST PROCEDURE <b>Dunlop</b>		MATERIAL <b>N/A</b>	
TEST METHOD <b>Eddy Current Testing</b>		SPECIAL HANDLING <b>N/A</b>	
ACCEPTANCE STANDARD <b>Dunlop</b>		PRE-PENETRANT ETCH/MCTL-PPEA-1 (IF ETCHED, VISUAL INSPECTION FOR CORROSION, FINGER PRINTS, NON-UNIFORM ETCH) <b>N/A</b>	
PRELIMINARY INSPECTION <b>COMPLETED</b>			
QUANTITY RECEIVED <b>17</b>		QUANTITY ACCEPTED <b>17</b>	
ACCEPTED SN <b>1082, 4715, 10249, 3340, 11273, 7290, 5583, 7533, 10545, 1513, 8701, 124, 403, 3394, 198, 3477, 2391</b>			
QUANTITY REJECTED <b>0</b>		REASON <b>N/A</b>	
REJECTED SN <b>N/A</b>			
EQUIPMENT USED <b>Hocking Phasec 2200</b>			
REMARKS <b>None</b>			
FINAL INSPECTION THE ITEMS IDENTIFIED HEREIN HAVE BEEN INSPECTED IN ACCORDANCE WITH AND ARE ACCEPTED PER THE METHOD STATED ABOVE.			
SIGNATURE <i>[Handwritten Signature]</i>			
TEST PERFORMED BY <b>James J. Carey</b>		STAMP 	CERTIFICATION REVIEWED BY <i>[Handwritten Signature]</i>
LEVEL <b>III</b>	DATE <b>November 2, 2011</b>	DATE <b>November 2, 2011</b>	

MCTL-FAA Rev. 6

REPAIRABLE	
Desc:	Main Rotor Servo
P/N:	AC 67246
S/N:	BX 264
Removed From:	N751H
TSN:	21160.9
TSO:	1926.3
Remarks:	Removed due timeout for overhaul.
Mechanic:	[Redacted]
Date:	10/02/2011
<u>Component Serial Number Verification:</u>	
Mechanic:	[Redacted]
Sundance Helicopters 5596 Haven St. Las Vegas, NV 89119 702-736-0606 FORM SDM 003RP	

REPAIRABLE	
Desc:	Dunlop Fore/Aft Servo
P/N:	AC 67246
S/N:	BX 264
Removed From:	N751H
TSN:	21160.9
TSO:	1926.3
Remarks:	Servo has run out of time and needs overhauled.
Mechanic:	[Redacted]
Date:	10/02/2011
<u>Component Serial Number Verification:</u>	
Mechanic:	[Redacted]
Sundance Helicopters 5596 Haven St. Las Vegas, NV 89119 702-736-0606 FORM SDM 003RP	

SERVICEABLE	
Desc:	Servo Command
P/N:	AC 67246
S/N:	BX 264
Removed From:	N345 SH
TSN:	
TSO:	796.1
Remarks:	Removed serviceable to be installed on N751H
Mechanic:	[Redacted]
Date:	2-22-11
<u>Component Serial Number Verification:</u>	
Mechanic:	[Redacted]
Sundance Helicopters 5596 Haven St. Las Vegas, NV 89119 702-736-0606 FORM SDM 003S	



**Receiving Inspection**

Form#U813

SUNDANCE  
\_\_\_\_\_  
\_\_\_\_\_  
Customer / Vendor

10/19/11  
Date

Fill in applicable information

Part No..... AC67246  
Serial No. .... BX264  
Purchase Order No. 2400  
Quantity Ordered.... 1  
Quantity Received.. 1

Enclosed Documentation

	Check One	
	Yes	No
MSDS.....		<input checked="" type="checkbox"/>
History Record (Hard Cards)	<input checked="" type="checkbox"/>	
Packing Slip.....	<input checked="" type="checkbox"/>	
Work Request.....	<input checked="" type="checkbox"/>	
Other.....		<input checked="" type="checkbox"/>
Certificate of Conformance.		<input checked="" type="checkbox"/>
Certification of Testing.....		<input checked="" type="checkbox"/>

Details / Results of Inspection

- Component / Material(s) found to be in acceptable visual condition and concur with information found on packing list. Dimension / Specifications are within acceptable limits.
- Component / Material(s) found to be in unacceptable visual condition or do not concur with packing list. State of preservation shipping damage etc. (Explain below)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

BW

Signature / Initials

Note: Components and Materials that fail to meet applicable specifications must be Tagged "Unacceptable" and returned to customer / vendor.

SUNDANCE

Malmrose Heli Services, Inc.  
11781 Eureka Way  
South Jordan, UT 84095  
[REDACTED]

### REPAIRS / TESTING

Owner MHS  
Work Order # 2995  
Name of part SERVO BODY  
Part No. ACM28707  
Mfr. Serial No. 403  
Manufacturer DUNLOP

Work Performed: Repair   
Testing

Remarks: EDDY CURRENT  
\_\_\_\_\_  
\_\_\_\_\_

Inspector Signature BW





**PROGRESSIVE INSPECTION**  
**Form U815**

W.O.# 2995

Scope: This form is a guide to ensure proper continuity during maintenance procedures.

	<u>Overhaul</u>	<u>Repair</u>	
<u>Disassembly:</u>		<u>Technician</u>	<u>Inspector</u>
Safety wire removed		<u>BW</u>	<u>[Signature]</u>
Bolts, Nuts and Screws removed		<u>BW</u>	<u>[Signature]</u>
All Parts Cleaned		<u>BW</u>	<u>[Signature]</u>
N.D.T.		<u>[Signature]</u>	<u>[Signature]</u>
Visual Inspection		<u>[Signature]</u>	<u>[Signature]</u>
Dimensional Inspection		<u>[Signature]</u>	<u>[Signature]</u>
Parts Ordered		<u>[Signature]</u>	<u>[Signature]</u>
 <u>Assembly:</u>			
Partial (awaiting parts)		<u>[Signature]</u>	<u>[Signature]</u>
All items requiring torque specifications torqued to proper settings		<u>[Signature]</u>	<u>[Signature]</u>
Complete (awaiting test/inspection)		<u>[Signature]</u>	<u>[Signature]</u>
Safety wire installed		<u>[Signature]</u>	<u>[Signature]</u>



1. Approving National Aviation Authority/Country: <b>USA</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: <b>2824A</b>	
4. Organization Name and Address: <b>MALMROSE HELI SERVICES, INC. 11781 EUREKA WAY, SOUTH JORDAN, UT 84095 USA</b>					5. Work Order/Contract/Invoice Number: <b>WO 2824</b>		
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	HYDRAULIC SERVO ACTUATOR	AC67246	NA	1	S/N BX264	REPAIR	
13. Remarks: <b>THIS FAA FORM 8130-3 CORRECTS THE ERROR IN BLOCK 13 OF THE FAA FORM 8130-3, FORM TRACKING NUMBER 2824, DATED NOVEMBER 04, 2010, AND DOES NOT COVER CONFORMITY/CONDITION/RELEASE TO SERVICE.</b>  <b>COMPONENT REPAIRED IN ACCORDANCE WITH DUNLOP CMM 65-40-02. TSO =794.5 HRS COMPLIED WITH SERVICE BULLETIN 67.00.45, LEVER SCREW INSPECTION COMPLIED WITH SERVICE BULLETIN 67.00.49, BOLT HEAD INSPECTION</b>							
14. Certifies the items identified above were manufactured in conformity to:  <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Authorized/Authorization No.:		20. Authorized Signature: 		21. Approved/Certificate No.: 	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed) <b>EARL H MALMROSE</b>		23. Date (m/d/y): <b>JANUARY 12, 2011</b>	
<b>User/Installer Responsibilities</b>							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown</p>							

1. Approving National Aviation Authority/Country: <b>USA</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: <b>2824</b>	
4. Organization Name and Address: <b>MALMROSE HELI SERVICES, INC. 11781 EUREKA WAY, SOUTH JORDAN, UT 84095 USA</b>					5. Work Order/Contract/Invoice Number: <b>WO 2824</b>		
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	HYDRAULIC SERVO ACTUATOR	AC67246	NA	1	S/N BX264	REPAIR	
13. Remarks:  <b>COMPONENT REPAIRED IN ACCORDANCE WITH DUNLOP CMM 65-40-02. TSO =0.0 HRS COMPLIED WITH EUROCOPTER SERVICE BULLETIN 67.00.45, LEVER SCREW INSPECTION COMPLIED WITH EUROCOPTER SERVICE BULLETIN 67.00.49, BOLT HEAD INSPECTION</b>							
14. Certifies the items identified above were manufactured in conformity to:  <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Authorized/Authorization No.:	20. Authorized Signature: 		21. Approved/Certificate No.: 		
17. Name (Typed or Printed):		18. Date (m/d/y):	22. Name (Typed or Printed): <b>EARL H MALMROSE</b>		23. Date (m/d/y): <b>NOVEMBER 04, 2010</b>		
<b>User/Installer Responsibilities</b>							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown</p>							



MALMROSE HELI SERVICES, INC.  
11781 EUREKA WAY  
SOUTH JORDAN, UT 84095

**WORK ORDER**

Form # U814

Customer

SUNDANCE HELICOPTERS  
5596 HAVEN ST.  
LAS VEGAS, NV. 89119

Name & Address

Date

9/22/10

Work Order No.

2824

Preliminary Inspection

Part Name SERVO ACTUATOR

TSN 20029.1

Part No. AC67246

TSO 794.5

Serial No. BX264

Work to be Performed

Repair     Overhaul     Other \_\_\_\_\_

Method of Inspection

- Functional Operation prior to disassembly  
 State of Preservation / External Damage / Leakage  
 T.S.O.  
 Tractability of Life Limits

Bw

Mechanic / Technician

3  
Inspector Initials

MALMROSE HELI SERVICES, INC.  
 11781 EUREKA WAY  
 SOUTH JORDAN, UT 84095

Work Order# 2824

Date 9/22/10

**WORK ORDER**  
 Form # U814

Hidden Damage Inspection / In-Progress Inspection

Disassembly (Note any visual damage during disassembly, listing part no.)

PRE TEST / PISTON ROD SPEED - IN = 1.31 - TIMING WITHIN ACCEPTABLE LIMITS  
 OUT = 1.35 OF 15% MAX DIFF.

NOTE: BYPASS = OK. UNIT TESTED, DISASSEMBLED, CLEANED, VISUALLY INSPECTED, UNIT LEAKING FROM EXTENSION PEECE WEEPHOLE, PISTON ROD SCORED/DIRTY. SCORING REMOVED, PISTON POLISHED. ALL SEALS IN PISTON AND BEARING ENDS/ EXTENSION PEECE REPLACED. UNIT ASSEMBLED & TESTED. SAFETY WIRED. REMAINED AS TIME CONTINUED REPAIR  
 Complied w/ SB 67.00.45 - INPUT LEVER SCREWS IN CORRECT ORIENTATION  
 " SB 67.00.49 - BATCH NO D58757 NOT USED, HINGE PIN SCREW INSPECTION

Non-Destructive Testing results (List part no., reason for failure and recommended corrective action)

EDDY CURRENT TESTING

SERVO BODY

P/N ACM28707

S/N

MA

  
 Mechanic / Technician

Major Parts Required

Part No.	Description	Qty Used	New	Reworked

  
 Mechanic / Technician

  
 Inspector Initials

MALMROSE HELI SERVICES, INC.  
11781 EUREKA WAY  
SOUTH JORDAN, UT 84095  
[REDACTED]

Work Order# 2824  
Date 9/22/10

**WORK ORDER**  
Form # U814

**Maintenance Release Statement**

FAR 43 Appendix B paragraph (b)(4)

The appliance indentified above was repaired / overhauled and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under:

Work Order No. 2824  
Date: 04 Nov 2010  
Signed: [REDACTED]

Malmrose Heli Services, Inc.  
11781 Eureka Way  
South Jordan, Utah 84095, USA  
[REDACTED]

**FAA Approved Data**

(If applicable)

Service Bulletins 67.00.45  
67.00.49  
 A.D. Notes  
A.D. NO. - \_\_\_\_\_  
A.D. Revision Date - \_\_\_\_\_  
Method of Compliance - DUNLOP  
CMM 65-40-02  
\_\_\_\_\_

	Initials
OVERHAUL	<u>ML</u>
REPAIR	<u>E</u>
INSPECTED	<u>E</u>

DATE: 11/4/2010

[REDACTED]  
Repairman Signature

[Signature]  
Inspector Initials