

ERICKSON AIR-CRANE

L/H

COMPONENT LOG CARD

NOMENCLATURE E Free Turbine Assy

PART NO: 572199

SERIAL NO: 600548

INSTALLED ON	INSTALL DATE	REMOVAL DATE	AIRCRAFT TOTAL TIME	AIRCRAFT CYCLES	COMPONENT TIME		REASON FOR REMOVAL/ COMMENTS
					TOTAL TIME	TIME SINCE OVERHAUL	
N194AC	3 APRIL 2025		20258.2	13664	12256.8	0.0	REMOVE AT AFT 22258.2 FOR O/H

OVERHAUL INTERVAL: 2,000.0 hrs
RETIREMENT TIMES: See Assoc. Log

ERICKSON AIR-CRANE

ASSOCIATED LIFE LIMITED EQUIPMENT TO MAJOR COMPONENT

1 MAJOR COMPONENT NOMENCLATURE				2 PART NUMBER			3 SERIAL NUMBER				
Free Turbine Assy				572199			600548				
PART NAME	A.	PART NUMBER B.	SERIAL NUMBER C.	DISK CYCLE @ INSTALL D.	DISK CYCLES REM. @ INSTALL E.	TOTAL TIME @ INSTALL ON ITEM SHOWN IN BLOCK 1	TOTAL TIME @ REMOVAL ON ITEM SHOWN IN BLOCK 1	TT ON LIFE LIMITED ITEMS SHOWN IN COLUMN A			REASON FOR REMOVAL/COMMENTS
								TOTAL TIME @ INSTALL	TOTAL TIME REM. @ INSTALL	TOTAL TIME @ REMOVAL	
DISK- 1ST STAGE DISK		575001	8W7041	1379	6621	12256.8		4298.7	7701.3		
DISK- 2ND STAGE DISK		575002	2X5775	1379	6621	12256.8		4298.7	7701.3		

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Component Life Summary

Equipment id: 572199-600548

Customer Equipment Number : 4 FREE TURBINE ASSY
 Equipment description : 572199-1
 Equipment Type ID :
 Description :

Equipment serial number : 600548
 Item number :
 Supplier :
 Owner organization code :

Physical location :
 Allocated organization code :
 Fixed asset number :
 Commission date : 8/1/2022

Owner employee :
 Maintenance policy :
 Maintenance policy version :
 Ownership type :

Structure position	Equipment Type	Equipment description	UOM	TSN/TSO	CSN	DSN	Life limit	Overhaul Limit	Cycle Life Limit	Days Limit	Retire		Retire	
											Time Remain	OH Time Remain	Cycle Remain	Days Remain
0	572199-600548	4 FREE TURBINE ASSY	HR	0.0	0	0	0.0	2,000.0	0	0	0.0	2,000.0	0	0
0*	575001-8W7041	DISK- 1ST STAGE TURBINE	CYCLES	0.0	1,379	0	0.0	0.0	8,000	0	0.0	0.0	8,821	0
0*	575001-8W7041	DISK- 1ST STAGE TURBINE	HR	4,298.7	0	0	12,000.0	0.0	0	0	7,701.3	0.0	0	0
02	575002-2X5775	DISK- 2ND STAGE TURBINE	CYCLES	0.0	1,379	0	0.0	0.0	8,000	0	0.0	0.0	8,821	0
02	575002-2X5775	DISK- 2ND STAGE TURBINE	HR	4,298.7	0	0	12,000.0	0.0	0	0	7,701.3	0.0	0	0

ERICKSON INCORPORATED
FAA REPAIR STATION JYDR439F

SERVICE BULLETINS
FREE TURBINE
PWA JFTD12A-4A/5A

P/N 572199

SN 600548

I.T. 12256.8

I.S.O. 0.0

W/O 173973

Notes:


1. New original copy must be completed during overhaul.

2. A previous completed SB sheet is acceptable on scheduled maintenance or repair work orders. It must be reviewed and updated if an additional SB has been accomplished since last overhaul.

DATE: 6/26/23

ATA: 72-80

SERVICE BULLETIN	TITLE	MANDATORY	NON-MANDATORY
1508 Rev. 18	Operating time between overhauls and frequency of combustion area inspections and corrosion inspection.	Clw	
2880 Rev. IR	Case assembly, free turbine - rework of	P/C/W	
2765 Rev. IR	Case assembly, free turbine - rework of	P/C/W	
6421 Rev. IR	Incorporation of improved aluminide coating system.	P/C/W	
6420-11 6420-8	Inspection of free turbine driveshaft flange.	P/C/W	

MAINTENANCE *Antonio Gonzalez* DATE 6-26-23
INSPECTOR  DATE 6/26/23

Foot Notes: 1. P/C/W - This entry indicates that the S/B was visually verified to be complied with on a previous repair or overhaul.
2. C/W - This entry indicates that the S/B was performed on this free turbine at the total time and date noted above.
3. N/A - This entry indicates that the S/B does not apply to this free turbine (reason to be stated).

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2	<h1 style="margin:0;">AUTHORIZED RELEASE CERTIFICATE</h1> <p style="margin:0;">FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</p>	3. Form Tracking Number: 194285-1
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4. Organization Name and Address: Erickson Incorporated DBA Erickson Air-Crane 3100 Willow Springs Road PO Box 3247 Central Point, OR 97502	Repair Station JYDR439F	5. Work Order/Contract/Invoice Number: 194285
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6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Shaft and Wheel Assembly	6435-10382-301	1	FM117	Overhauled

12. Remarks:
 Assembled in accordance with ERSM 106, Rev IR Dated 17/Aug/2007 using parts from serviceable inventory. T.S.O. 0.0 C/N: 3770.2
 Remove at 5000 hours T.S.O. for overhaul reference SB64B General-2 Rev 17 dated 17/Oct/2022 or SB64F General-2 Rev 17 dated 17/Oct/2022.

Refer to Work Order # in Block 5.
 A complete description of work performed is on file at the above referenced organization under the work order and system tracking reference number indicated in blocks 3 and 5.

NOTICE: An Airworthiness Directive may apply to the article(s) described hereon. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directives.

Certifies that the work specified in blocks 11/12 was carried out in accordance with EASA Part-145 and in respect to that work, the component is considered ready for release to service under EASA Part-145 Approval Number EASA.145.5108.

13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.	14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 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.		
13b. Authorized Signature: 	13c. Approval/Authorization No.: 	14b. Authorized Signature: 	14c. Approval/Certificate No.: JYDR439F
13d. Name (Typed or Printed): 	13e. Date (dd/mm/yyyy): 	14d. Name (Typed or Printed): MIKE TERRY	14e. Date (dd/mm/yyyy): 25/JAN/2024

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

ERICKSON AIR-CRANE

R/H

COMPONENT LOG CARD

NOMENCLATURE: E Free Turbine AssyPART NO: 572199SERIAL NO: 600707

INSTALLED ON	INSTALL DATE	REMOVAL DATE	AIRCRAFT TOTAL TIME	AIRCRAFT CYCLES	COMPONENT TIME		REASON FOR REMOVAL/ COMMENTS
					TOTAL TIME	TIME SINCE OVERHAUL	
N194AC	30 AUC 2018		19136.8 ^{2H}	12924	N/A	0.0	Remove @ 21136.8 ACH

OVERHAUL INTERVAL: 2,000.0 hrs.RETIREMENT TIMES: See Assoc. Log

COMPONENT MAINTENANCE RECORD

Date	Work Order	T.T.	T.S.O	Description of Work Performed
02/20/15	129524	N/A	0.0	Assy Overhauled Ref. Erickson O/H/M P/N 435108, Rev. 76, 6/1/14. See attached SB sheet for compliance.
3 July 15 ^{RR}				Tested per FAA approved procedure RS-038. . Remove assy. from service @ 2000.0 hrs. TSO for next overhaul.
3 July 15	N/A	N/A	0.0	Complied with Service Bulletin 64830-11, SECTION 2 PARA A,B AND C
				REMOVED PAINTED FLANGE AND installed Sermetel FLANGE P/U
				6435-20072-101 STS 2241 MAINTENANCE performed with REF TO
				ERC 007 chap 4.9 Steps e thru k AND Figure H.17 MAINTENANCE performed
				is approved for return to service <i>Handwritten signature: J. Smith 5/11/15</i>

PROPRIETARY INFORMATION

THIS DOCUMENT IS THE PROPERTY OF ERICKSON AIR CRANE AND MAY NOT BE USED BY ANYONE OTHER THAN ERICKSON AIR CRANE EMPLOYEES. THIS DOCUMENT MAY NOT BE COPIED, PRINTED OR REPRODUCED BY ANY MEANS, INCLUDING ELECTRONIC OR PHYSICAL METHODS WITHOUT EXPRESS WRITTEN PERMISSION FROM ERICKSON AIR CRANE.

ERICKSON AIR-CRANE

ASSOCIATED LIFE LIMITED EQUIPMENT TO MAJOR COMPONENT

1. MAJOR COMPONENT NOMENCLATURE			2. PART NUMBER				3. SERIAL NUMBER			
Free Turbine Assy			572199				600707			
PART NAME A.	PART NUMBER B.	SERIAL NUMBER C.	DISK CYCLE @ INSTALL D.	DISK CYCLES REM. @ INSTALL E.	TOTAL TIME @	TOTAL TIME @	TT ON LIFE LIMITED ITEMS SHOWN IN COLUMN A			REASON FOR REMOVAL/COMMENTS
					INSTALL ON ITEM SHOWN IN BLOCK 1	REMOVAL ON ITEM SHOWN IN BLOCK 1	TOTAL TIME @ INSTALL	TOTAL TIME REM. @ INSTALL	TOTAL TIME @ REMOVAL	
DISK- 1ST STAGE DISK	575001	MB1HAH0055	2280	5720	N/A		4010.4	7989.6		
DISK- 2ND STAGE DISK	575002	2W6865	5080	2920	N/A		7094.4	4905.6		

Component Life Summary

Equipment id: 572199-600707

Customer Equipment Number:
Equipment description: 4 FREE TURBINE ASSY
Equipment Type ID: 572199-1
Description

Equipment serial number: 600707
Item number:
Supplier:
Owner organization code:

Physical location:
Allocated organization code:
Fixed asset number:
Commission date: 12/31/2154

Owner employee:
Maintenance policy:
Maintenance policy version:
Ownership type

Structure position	Equipment Type	Equipment description	UOM	TSN/TSO	CSN	DSN	Life limit	OverHaul			Cycle Life			Retire Time		O/H Time		Retire Cycle	
								Limit	Limit	Days	Limit	Limit	Days	Remain	Remain	Remain	Days	Remain	Days
0	572199-600707	4 FREE TURBINE ASSY	HR	0.0	0	0	0.0	2,000.0	0	0	0.0	0.0	2,000.0	0	0	0	0	0	0
01	575001-MB1HAH0055	DISK- 1ST STAGE TURBINE	CYCLES	0.0	2,280	0	0.0	0.0	8,000	0	0.0	0.0	0.0	5,720	0	0	0	0	0
01	575001-MB1HAH0055	DISK- 1ST STAGE TURBINE	HR	4,010.4	0	0	12,000.0	0.0	0.0	0	0.0	7,989.6	0.0	0	0	0	0	0	0
02	575002-2W6865	DISK- 2ND STAGE TURBINE	CYCLES	0.0	5,080	0	0.0	0.0	8,000	0	0.0	0.0	2,920	0	0	0	0	0	0
02	575002-2W6865	DISK- 2ND STAGE TURBINE	HR	7,094.4	0	0	12,000.0	0.0	0	0	4,905.6	0.0	0	0	0	0	0	0	0

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 129524-1	
4. Organization Name and Address: Erickson Air-Crane 3100 Willow Springs Road PO Box 3247 Central Point, OR 97502				Repair Station JYDR439F		5. Work Order/Contract/Invoice Number: 129524	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:		
1	-4 Free Turbine Assembly	572199	1	600707	Overhauled		
12. Remarks: Overhauled, Ref. Erickson O/H/M P/N 435108, Rev. 76, Dated 01/Jun/2014. Tested Ref: #RS-038 TSO 0.0 Remove assembly at 2000 hrs TSO for Overhaul. A complete description of work performed is on file at the above referenced organization under the work order and system tracking reference number indicated in blocks 3 and 5. NOTICE: An Airworthiness Directive may apply to the article(s) described hereon. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directives.							
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.				14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 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.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:	
				<i>Kenneth Rosborg</i>		JYDR439F	
13d. Name (Typed or Printed):		13e. Date (dd/mmm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):	
				Kenneth Rosborg		20/Feb/2015	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. 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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a 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.							

ERICKSON AIR-CRANE
FAA REPAIR STATION JYDR439F

SERVICE BULLETINS
FREE TURBINE
PWA JFTD12A-4A/5A

P/N 572199

S/N 600707

T.T. N/A

T.S.O. 0.0

W/O 129524

Notes:

1. New original copy must be completed during overhaul.


DATE: 12-05-14

2. A previous completed SB sheet is acceptable on scheduled maintenance or repair work orders. It must be reviewed and updated if an additional SB has been accomplished since last overhaul.

ATA: 72-80

SERVICE BULLETIN		TITLE	PWA and EACC MANDATORY
Number Per PWA	Cross Ref. Number for PWA Internal E.O. to S.B.'s		Compliance to be accomplished or verified before any assembly is put into service.
1508 Rev. 18	N/A	Operating time between overhauls and frequency of combustion area inspections and corrosion inspection.	C/W
2680 Rev. IR	253749	Case assembly, free turbine - rework of	P C W
2705 Rev. IR	194860A	Case assembly, free turbine - rework of	P C W
6421 Rev. IR	98JA008	Incorporation of improved aluminide coating system.	P C W

MAINTENANCE John Anderson DATE 12-05-14

INSPECTOR  DATE 12-5-14

- Foot Notes:
1. P/C/W - This entry indicates that the S/B was visually verified to be complied with on a previous repair or overhaul.
 2. C/W - This entry indicates that the S/B was performed on this free turbine at the total time and date noted above.
 3. N/A - This entry indicates that the S/B does not apply to this free turbine (reason to be stated).

Parts Removed / Installed

Part Number	Nomenclature	S/N	T.S.N.	T.S.O.	Off/On	A.C.T.T.
704560-2L2	FCU	58045	UNK	1518.1	OFF	19136.8
704560-2L2	FCU	58046	UNK	0.0	ON	19136.8
JFTD12A-4A	COMPRESSOR ASSEMBLY	638353	8980.2	769.6	OFF	19136.8
JFTD12A-4A	COMPRESSOR ASSEMBLY	638216	12392.8	0.0	ON	19136.8
572199	FREE TURBINE	600535	-	1953.5	OFF	19136.8
572199	FREE TURBINE	600707	-	0.0	ON	19136.8

RECEIVED

SEP 04 2018

Maintenance Actions

No.	Aircraft Discrepancies	Initials	No.	Actions	Initials
1	OSU DAILY CHECK REQUIRED	DW	1	OSU CHECK CARRIED OUT REF EAC007 PARA 9.67.7, SATIS	DW
2	#2 ENGINE SOFT STALL/ROLL BACK IN FLIGHT, TS CHECKED FOR EXCEEDENCE UPON RETURN TO BASE 77°C FOR 3 SECONDS	DW		REFERENCE EAC MAINT BULLETIN 4-10 & JFTD12A MAINTENANCE MANUAL EAC 0-04-381 REV. FCU REPLACED REF EAC 007 PARA 4.52.1 & 4.52.2. COMPRESSOR REPLACED REF EAC 007 PARA 4.6.2 & 4.6.3. FREE TURBINE REPLACED REF EAC 007 PARA 4.7.2 & 4.7.3. RETURN TO SERVICE REQUIRED AFTER ENGINE RUN UPS AND PART POWER TRIM. REFER SUBSEQUENT AML.	DW

AD/SB/Inspection	Rev Date	Compliance Method	Results	ACTT	ACTT/Date Next Due	Signature & Cert Number
ADD13-23-07	30 OCT 13	FUNCTIONAL	GOOD	19136.1	NEXT PRE FLT	RS JYDR439F
M B1-5	17 AUG 04	FUNCTIONAL	GOOD	19136.1	NEXT PRE FLT	RS JYDR439F
SBLB 85 7	22 AUG 17	VISUAL	GOOD	19136.1	NEXT PRE FLT	RS JYDR439F
M B 9-1	7 AUG 06	CHK/CLR TS's	AS PER ABOVE	19136.8	NEXT POST FLT	RS JYDR439F

Aircraft Daily Totals / Inspection Schedule

Page 1 of 1

A/C Model	N-Number	A/C S/N	L Engine S/N	R Engine S/N	Location Name	Date
S64E	N194AC	04017	672 456	038 353	ANDRAVION GREECE	30 AUG 2018
Total Time	Aircraft	Cycles	Parts Due Off <200 Hrs		Due @ A/C T.T.	
Lift Off	19136.1	12923	1GB		19224.7	
Today	0.7	1	R/L SERVO		19305.1	
Shut Down	19136.8	12924	No 2 FREE TURBINE		19333.3	
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service.			TORQUE INSPECTION OF STAB BOLTS		AFTER NEXT FLIGHT	
			Next Phase Due 19149.6		Phase # III	
			Aircraft has been pre-flighted and is returned to service.			
Mechanic Signature		Repair Station # JYDR439F	Pilot (Signature and Certificate No.)			