

APU Logbook for N1927G
SN: 261



Model: RE100(CS)

Engine SN: P-401

Book 2 of 2

GLT

Honeywell

Honeywell International Inc.
Engines & Systems
P.O. Box 52181
Phoenix, Arizona 85072-2181

Gas Turbine ENGINE LOG BOOK

ENGINE, GAS TURBINE

PART NO. 3800785-1

MODEL NO. RF 100 (CS)

SERIAL NO. P-401

DATE	ACCUMULATED ENGINE HOURS	ACCUMULATED ENGINE STARTS	REMARKS, INSPECTIONS, REPAIRS AND ADJUSTMENTS	SIGNATURE
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Reg. #: N28BQ Date: September 29, 2022 Work Order: Q02LA
 Make: HONEYWELL Model: RE100(CS)
 APU S/N: P-401 APU TT: 3185.2 APU CSN: 5158

Performed the following Inspections in accordance with Honeywell RE100CS Maintenance Manual:

- 900 Hour / 24 Month APU Inspection.

The above described repair or maintenance is approved for return to service. A detailed record is on file under work order **Q02LA.**

Signed: *Steven Gault* Duncan QI 2337
 Steven Gault
 For Duncan Aviation Repair Station JGVR194F Phone: 800-228-4277

I certify this engine has been inspected in accordance with **Honeywell 150-250 Hr. Routine Periodic Inspections** to comply with the requirements of FAR 91.409 f (3) and is approved for return to service. A detailed record is on file under work order **Q02LA.**

Signed: *Steven Gault* Duncan QI 2337
 Steven Gault
 For Duncan Aviation Repair Station JGVR194F Phone: 800-228-4277

DATE



Gulfstream™

APU INSPECTION / MAINTENANCE RECORD

GR4R216M / Savannah, GA

WORK ORDER NO.: RC670208

DATE OF COMPLETION: 04/21/2021

APU MODEL: RE100CS
APU TOTAL TIME: 2973.0

APU SERIAL NO.: P-401
APU TOTAL CYCLES: 4867

Complied with repair, 450hr/1 year and 900hr/2 year inspections, and APU performance run. All maintenance accomplished per Honeywell RE100CS MM 49-24-64 Rev. 2 dated 10/17/2014, RE100CS CMM 49-24-65 Rev. 5 dated 2/18/2020, Honeywell SPM 20-00-02/70-00-01 Rev. 24 dated 12/04/2020, and Honeywell RE100 IRM 49-24-77 Rev. 10 dated 10/21/2019.

Reference the following information:

- 450hr/1 year inspection due at: 3423.0 TSN or 4/2022.
- 900hr/2 year inspection due at: 3,873.0 TSN or 4/2023.
- Life remaining on Compressor Rotor S/N: 3822523-003 is 32,144 cycles, due at APU CSN: 37.011.
- Life remaining on Turbine Rotor S/N: 07-01345-14344 is 7,133 cycles, due at APU CSN: 12.000.

The following items were replaced with new:

- Oil Filter P/N: 3609088-1.
- Fuel Filter P/N: 3882440-1.
- Compressor Carbon and Rotor Seals Matched Set P/N: 70721582-1, S N: 00191.
- Gen Pad Carbon and Rotor Seals Matched Set Seal P/N: 70721719-1, S N: 00139.
- Roller Bearing P/N: 70722450-1, S/N: 20-162111-01578.

Complied with Service Bulletin(s): SB49-8303, SB49-7997

APU preserved for long term storage per Honeywell SB 49-7997. Owner Operator is required to drain fuel system of preservative and service oil system with approved engine oil prior to use.

I certify that this APU has been inspected under the approved manufacturer's recommended inspection program under FAR 91.409(f)(3) and is approved for return to service with regards to the maintenance accomplished. Further details of this inspection and related maintenance are on file at this Repair Station under the above work order. A copy of the work order has been provided to the operator.

AUTHORIZED SIGNATURE:



John R. Sullivan / dk
GR4R216M

31 May 2

Gulfstream

APU LOG ADDENDUM

Page 1 of 1

MODEL:	G150	ACTT:	2154:21
SERIAL NO.:	261	ACTL	1562
TAIL NO.:	OE-GLF	DATE BEGUN:	20 TH NOVEMBER 2012
WORK ORDER:	LMX000320	DATE COMPLETED:	21 ST NOVEMBER 2012

ENGINE TYPE:	RE100CS (G150) (APU)	ENGINE SERIAL NO.:	P-401
ENGINE TOTAL TIME:	1144.5	TIME SINCE OVERHAUL:	---

THE FOLLOWING ITEMS WERE ACCOMPLISHED AT GULFSTREAM AEROSPACE LIMITED, LONDON LUTON AIRPORT, ENGLAND. UNDER THE ABOVE WORK ORDER:

DURING APU OPERATION ON GROUND WITH AIR BLEED ON (HI FLOW), GEN ON, RPM DROPS TO 60% AND THEN BACK TO 100%. 3 TIMES IN LAST 2-3 WEEKS.

APU Fuel Filter replaced P/No. 3882440-1 S/No. NSN, fitted, B/No. LJL442E.

APU started for trouble shooting, on shutdown, APU would not shut down below 38 RPM, APU restarted satis.

With APU inoperative APU deferred with ref to G150 MEL Page 49-1 Item 1, 01/10/2008.

'This Inspection Maintenance Record is an extract from the above Gulfstream work order and provides the aircraft operator with a Log Book Record Certificate'.

Reference: LMX000320

Date: 21ST November 2012

Signed: 

Print Name: S. M. Brazier

EASA PART 145 Approval: UK.145.00883
GULFSTREAM AEROSPACE LTD.
LONDON LUTON AIRPORT, BEDS. LU2 9PA, ENGLAND
Telephone: +44(0)1582 506650 Facsimile: +44(0)1582 506680

APU LOG ADDENDUM

MODEL:	G150	ACTT:	1494:56
SERIAL NO.:	261	ACTL:	1139
TAIL NO.:	OE-GLF	DATE BEGUN:	29 SEPTEMBER 2011
WORK ORDER:	FL015656	DATE COMPLETED:	10 OCTOBER 2011

ENGINE TYPE:	RE100CS	ENGINE SERIAL NO.:	P-401
ENGINE TOTAL TIME:	814.5	TIME SINCE OVERHAUL:	-----
ENGINE TOTAL CYCLES:	1538	CYCLES SINCE OVERHAUL:	-----

THE FOLLOWING ITEMS WERE ACCOMPLISHED AT GULFSTREAM AEROSPACE LIMITED, LONDON LUTON AIRPORT, ENGLAND UNDER THE ABOVE WORK ORDER:

MAINTENANCE SCHEDULE REF: AMP-AVCON-G150 Revision 2.

Due List Items complied with:

493101 - APU FUEL FILTER ELEMENT - REMOVAL / INSTALLATION
493103 - APU FUEL CONTROL ASSEMBLY - REMOVAL / INSTALLATION (REF 494201)
493104 - APU FUEL FILTER ELEMENT - DISCARD
494201 - APU STARTER-GENERATOR - REMOVAL / INSTALLATION (REF 243001 GEN RESTORE)
499202 - APU DIFFERENTIAL PRESSURE INDICATOR - INSPECTION / CHECK
499205 - APU CHIP DETECTOR - REMOVAL / INSTALLATION (REF 499205 - DETAILED INSPECTION)
499206 - APU MAGNETIC CHIP COLLECTOR - DETAILED INSPECTION

The certification made below confirms that the aircraft/aircraft component has been released to service in accordance with current EASA 145 Regulations on Gulfstream Aerospace Limited Release to Service Inspection Worksheets (Form 90-164) after the completion of all tasks reference the above work order number.

Reference: FL015656. Date: 10 October 2011.

Signed:  Print Name: L. Crowley.

EASA PART 145 Approval: UK.145.00883
 GULFSTREAM AEROSPACE LTD.
 LONDON LUTON AIRPORT, BEDS. LU2 9PA, ENGLAND
 Telephone: +44(0)1582 506650 Facsimile: +44(0)1582 506680

APU INSPECTION / MAINTENANCE RECORD

EASA.145.4501 / FAA CRS GR4R216M / Savannah, GA

MODEL: Gulfstream G150	ACTT: 1889:16
SERIAL NO.: 261	ACTL: 1396
REGISTRATION NO.: OE-GLF	DATE STARTED: 06/11/2012
WORK ORDER NO.: SC288966	DATE COMPLETED: 06/30/2012


APU MODEL: RE100CS	APU SERIAL NO.: P-401
APU TOTAL TIME: 1001.5	TIME SINCE OVERHAUL: N/A
APU TOTAL CYCLES: 1954	

The following GAC CMP Codes were accomplished:

- | | |
|---|--|
| 121405 DRAIN AND DISCARD APU OIL | |
| 493103 FUEL CONTROL ASSEMBLY (APU) | |
| 494201 STARTER / GENERATOR, APU | |
| 496101 ELECTRONIC CONTROL UNIT, APU | |
| 496102 APU ELECTRONIC CONTROL UNIT - SOFTWARE CONFIGURATION | |
| 499202 APU OIL FILTER DELTA P INDICATOR - INSP/CHECK | |
| 499205 CHIP DETECTOR (APU) | |
| 499206 APU MAGNETIC CHIP COLLECTOR - DI | |

- 4.1. Replaced Idler Bearing Cover and Oil Lube Module packing's in accordance with Honeywell RE-100 maintenance manual 49-24-65.
 - 5.4. Complied with Gulfstream Retrofit Directive RD-11-1509 APU Electronic Control Unit Upgrade.
 - P/N Off: G4547-2119552-3, S/N Off: 18-L0262
 - P/N On: G4547-2119552-4, S/N On: 118-L0466
 - 13.29. Complied with oil drain and discard. Serviced with 1.5 Quarts Mobil Jet Oil 254.
 - 17.5. Replaced starter/generator with overhauled P/N: 23065-020, S/N Off: 3805, S/N On: P1145.
- "Gulfstream Aerospace Corporation certifies that the work specified except as otherwise specified was carried out in accordance with EASA Part 145 and in respect to that work the APU is considered ready for release to service."
- Type Inspection: Customer Supplied CMP

AUTHORIZED SIGNATURE:


 Brian D. Hayes / ew dk
 EASA.145.4501 / GR4R216M



TE	ACCUMULATED ENGINE HOURS	ACCUMULATED ENGINE STARTS	REMARKS, INSPECTIONS, REPAIRS, AND ADJUSTMENTS
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ALTENRHEIN AVIATION
 Flughafenstrasse 11
 CH-9423 Altenrhein, Switzerland
 www.altenrhein-aviation.com
 Tel +41 71 858 51 85
 Fax +41 71 858 51 95

Certificate of Release to Service (CRS) i.a.w. EASA Part-145.A.50

Type	S/N	TSN	CSN	TSO	CSO
G150 Gulfstream	261	507:35	428	-	-
HW TFE 731-40AR	P126217	507:35	428	-	-
HW TFE 731-40AR	P126216	507:35	428	-	-
HW RE 100 CS	P-401	327:0	654	-	-

Work detailed below has been carried out on the respective aircraft:
CARDS PERFORMED AS PER DUE LIST DATED 04 AUGUST 2009 :
 02 STARTER GENERATOR BRUSH CHECK PERFORMED.
 02 APU DIFFERENTIAL PRESSURE INDICATOR INSP/CHECK PERFORMED.
 06 APU MAGNETIC CHIP DETECTOR - DETAILED INSPECTION.
Work was carried out i.a.w. G150 AMM Rev 8, 30 May 2009.
Refer WO number for reference: G150GLF100002

Altenehein Aviation Ltd. EASA Part-145 AMO No. CH.145.0236
 A/C Registration : **OE-GLF**

that the work specified except as otherwise specified was carried out in accordance with EASA Part-145 in respect to that work the aircraft / aircraft component is considered ready for release to service.

Altenehein Aviation
 19331 Date: **23 Sep 2009**
 Signature & Stamp:
 AAL 0236
 M. Ploeg
 FOCA-304089

Certificate of Release to Service i.a.w. EASA Part-145.A.50

ALTENRHEIN AVIATION
 Altenrhein Aviation Ltd
 CH-9423 Altenrhein Switzerland
 Telephone +41 71 858 51 85
 Telefax +41 71 858 51 95
 EASA Part-145 approved
 CH 145.0236 / LBA ii-A52
 BSM-100 BDA/AMO/198
Certificate of Release to Service (CRS) i.a.w. EASA Part-145.A.50

Airframe	Type	S/N	TSN	TSO	CSN	CSO
LH Engine	TFE 731-40AR	P126217	265:05	-	213	-
RH Engine	TFE 731-40AR	P126216	265:05	-	213	-

Manufacturer Document
 Type: AMM Issue: Volume 1 Revision: 7 Date: 15 December 2008

The work detailed below has been carried out on the respective aircraft:
 Performed TIS on NLG Steering Serviced Strut
 Replaced Bolt on FWD lower Cabin P/Noffon:GE1819
 Replaced Bolt Pack of RH Emerg Flightlight P/Noffon:R4-01-0030
 Replaced Main Wheel Assy No.2 P/Noffon:5003566 S/Noff:OV07-1245 S/Non:SEP98-506
 Replaced Main Wheel Assy No.3 P/Noffon:5003566 S/Noff:PEB08-1358 S/Non:PEB97-475
 Replaced Main Wheel Assy No.4 P/Noffon:5003566 S/Noff:JAN08-1289 S/Non:AUG05-424
 Replaced APU Oil Level Switch P/Noffon:397631E-3 S/Noff:00014700664 S/Non:0001470066525
 Performed following CRP items:
 122702 Main Wheel Assembly (RH Inb.)-Removal/Installation
 122719 MLG Lower Shock Strut Action Pins Lubrication
 210105 Main Wheel Assy (No 1)-Functional Check-Deep Cycling
 243016 Main Wheel Assy (No 2)-Functional Check-Deep Cycling
 283141 Main Wheel Assy (No 3)-Functional Check-Deep Cycling
 283142 Main Wheel Assy (No 4)-Functional Check-Deep Cycling
 284202 Main Wheel Assembly (RH Inb.)-Removal/Installation
 324203 Main Wheel Assembly (LH Inb.)-Removal/Installation
 324204 Main Wheel Assembly (RH Inb.)-Removal/Installation
 324216 Tire,MLG(LH Inb.)
 324217 Tire,MLG(RH Inb.)
 324218 Tire,MLG(RH Inb.)
 486402 APU Oil Level Switch Removal/Installation

Altenehein Aviation Ltd
 CH 145.0236
Certificate of release to service for work specified above on A/C Reg. OE-GLF
 Certifies that the work specified except as otherwise specified was carried out in accordance with Part-145 and in respect to that work the aircraft / aircraft component is considered ready for release to service.
 Place: 9423 Altenrhein Date: 23 Sep 2009
 VVO: 19331 Sign: M. Ploeg License No: FOCA 304089

DATE	ACCUMULATED ENGINE HOURS	ACCUMULATED ENGINE HOURS	REMARKS, INSPECTIONS, REPAIRS, AND ADJUSTMENTS
8/16/10	TSN C2C C	CSN 1011	APU P/N 3800785-1 S/N P-401 Model RE100-CS
	CSO N/A		DESCRIPTION OF WORK PERFORMED: ENGINE DISASSEMBLED TO THE EXTENT NECESSARY TO PERFORM REPAIR, INSPECTED, REPAIRED AND TESTED IAW MANUFACTURER'S MANUAL 49-24-65 AND CUSTOMER INSTRUCTIONS. TSR/CSR: 0 ***** *****
			INSPECTIONS COMPLIED WITH: SEE INTERVAL CHECKLIST.
			SERVICE BULLETINS COMPLIED WITH: SEE SERVICE BULLETIN SECTION OF LOG BOOK.
			PARTS REPAIRED OR REPLACED THIS VISIT: SEE TRACE INPUT PAGE
			NDC / LIFE LIMITED PARTS: SEE NDC / LIFE LIMITED PARTS RECORD
			THIS APU HAS BEEN REPAIRED/INSPECTED IN ACCORDANCE WITH THE CURRENT REGULATION OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO WORK PERFORMED. PERTINENT DETAILS OF WORK PERFORMED ARE ON FILE AT THIS AGENCY UNDER REPAIR ORDER NUMBER 306439048
			HONEYWELL AEROSPACE CERTIFIED REPAIR STATION ZN3R030M
			INSPECTOR:

Engine Data

MODEL NO. RE 100 (CS)

SERIAL NO. P-401

INSTALLATION DATE

RELEVANT INSTRUCTION MANUALS

OPERATOR

DATE	ACCUMULATED ENGINE HOURS	ACCUMULATED ENGINE STARTS	REMARKS, INSPECTIONS, REPAIRS AND ADJUSTMENTS	SIGNATURE
3-3-08	0	0	PART NUMBER: 3800785-1 SERIAL NUMBER: P-401 NEW PRODUCTION UNIT	
18 MAY 2008	0	0	THE ENGINE WAS INSTALLED ON "GULFSTREAM G150" AIRCRAFT S/N 261 AT 0.0 AIRFRAME HOURS. THE ENGINE WAS SERVICED WITH "MOBIL JET" OIL #254.	

Gulfstream

A GENERAL DYNAMICS COMPANY

INSPECTION / MAINTENANCE RECORD
FAA CRS VJ1R560K, DALLAS, TX

MAKE: Honeywell	POSITION: APU	A/C MAKE: Gulfstream	REG: N261GA
MODEL: RE100 (CS)3800785-1	S/N: P-401	A/C MODEL: G150	S/N: 261
TIME: 18.5 hrs	CYCLES: 34	TAT: 27.4	LDS: 8

Accomplished the following CMP codes:

- 490005 APU Performance Run - Funct Test
- 491202 APU Air Inlet Duct - GVI
- 491321 APU Drain System - GVI
- 498102 APU Exhaust Duct - GVI
- 499202 APU Oil Filter Delta P Indicator - Inspection Check
- 499206 APU magnetic Chip Collector - Detailed Inspection

Performed Satisfactory Operational Check and Leak Check.
Details on file under work order No. FP11427.

This Engine has been Inspected and found to be in Airworthy Condition with respect to the maintenance performed, and is Approved for Return to Service.

Signature:

Peter Hyatt
CRS# VJ1R560K

September 5, 2008