



Enhanced GIV-SP

A9C-BAH



Serial Number 1353



Current Hours & Cycles at: 09th January 2011
Airframe: 8,178:04 flight hours / 3,369 landings
Engine #1 S/N 16824 : TT : 7,918:02 Hrs / 3,254 Cyc
TSO : 1,230:26 / CSO 457
Engine #2 S/N 16823 : TT : 7,978:48 Hrs / 3,273 Cyc
TSO : 1,490:49 / CSO 572
APU: S/N P-653C : TT : 4,534 Hrs TSLSV : 732 Hrs
(conversion to GTCP36-150G)

****Aircraft and Engines converted to MSG3 September 2004****

Next Maintenance Due

Approved Maintenance Schedule REF: BRF/GIV/04

'1A' Check:	16 Aug, 2011 or 8,522 Hrs
'2A' Check:	8,803 Hrs
'4A' Check:	9,101 Hrs
'5A' Check:	8,988 Hrs
'10A' Check:	9,304 Hrs
'1C' Check:	3 May, 2011
'2C' Check:	4 May, 2011
'3C' Check:	7 May, 2011
'4C' Check:	4 May, 2013
'5C' Check:	4 May, 2014
'6C' Check:	15 Apr, 2011
'8C' Check:	29 Apr, 2015
'16C' Check:	31 Jul, 2015

Major Components/Life Limited Parts:

Last Re-weigh:	02 NOV, 2010	Due: 02 NOV, 2013
Last Exterior paint:	02 NOV, 2010	Due: N/A
Last Engine O/H: #1	07 NOV, 2008	Due: 29 JAN, 2019 (REWORK)
Last Engine O/H: #2	10 JUL, 2008	Due: 11SEP, 2018 (REWORK)
Last Main Gear RS	-	Due: 5,000 CYC
Last Nose Gear RS	-	Due: 5,000 CYC



Aircraft Details

AIRCRAFT MSN	1353
DATE of CONSTRUCTION	OCT, 1998
ENGINE #1 TYPE / SERIAL #	ROLLS ROYCE TAY 611-8 / 16824
ENGINE #1 DATE of CONSTRUCTION	OCT, 1998
ENGINE #2 TYPE / SERIAL #	ROLLS ROYCE TAY 611-8 / 16823
ENGINE #2 DATE of CONSTRUCTION	SEP, 1998
APU TYPE / PART No.	GTCP36-150G / 3800826-1
APU DATE of CONSTRUCTION/SERIAL #	NOV, 1994 / P-653C

COUNTRY of REGISTRATION	Kingdom of Bahrain (A9C-BAH)
CERTIFIED TO:	FAA FAR Part 25 through Amendment 25-56 FAA FAR Part 25, FAA FAR Part 91 Operating Regulations.

MAX TAKE-OFF WEIGHT	74,600 lbs
MAX LANDING WEIGHT	66,000 lbs
MAX FUEL CAPACITY	29,500 lbs
MAXIMUM RAMP WEIGHT	75,000 lbs
ZERO FUEL WEIGHT	49,000 lbs

CERTIFIED CREW SEATS for T/O	2 x Flight Crew + 1 Ground Engineer 2 x Cabin Crew.
CERTIFIED Seating for T/O	12 + Fwd & Aft Lavatory seats approved for take-off and landing
Total Passenger Seating	12

LAVATORIES	2
GALLEYS	1
WATER Qty	Three Spartanburg 10 gallon tanks



Weight & Balance Report

LOADMASTERS

Aircraft Weight & Balance, Load & Trim, Design & Modification Services

4 Weyside Park
Newman Lane
ALTON, Hampshire, UK
GU34 2PJ

Telephone: +44 1420 544073
Mobile: 07771 630566
Fax: +44 1420 544173

WEIGHING RECORD		Ref. no. 10NO5679	Issue 2			
Aircraft	Gulfstream G IV	Registration A9C - BAH	Serial no. 1353			
Place	Norwich (UK)	Date 01-Nov-10	Weighed by Nick Bottomley			
Equipment	Platforms AC1-25	Calibration Date Due July 2011				
Aircraft attitude LEVELdegrees Nose Up / Down						
All Weights in lb / kg						
Pos'n	S/No	Weight (each reaction)	Weight (total)	Arm in in	Moment lb.in / kg.m	
1	405		3,088	60.10	185,589	
2						
3	413	10,109				
4	552	10,296	41,159	486.10	20,007,390	
5	551	10,606				
6	412	10,088				
7						
8						
9						
10						
11						
12						
AS WEIGHED			44,247	456.37	20,192,979	
Total Subtractions (see over)			1149.7		437,765	
Total Additions (see over)			92		39,744	
AIRCRAFT WEIGHT			EMPTY WEIGHT	43,189	458.33	19,794,958
REMARKS:						
The Aircraft Weight with the fuel tanks empty (completely/but including unusable fuel), engine oil full, systems primed and equipped as per Bahrain Royal Flight.....						
Check List dated01-Nov-10 is43,189 lb.....						
The Centre of Gravity (Arm) is.....458.33 in..... aft of the datum						
%MAC = (458.33 - 387.7) / 1.0622 = 42.49%						
Date of Re-issue 29-Nov-10						
Certified that the above mentioned aircraft has been weighed in accordance with the terms of the order applicable thereto and unless otherwise stated above conforms fully to the standards/specifications quoted hereon and the requirement of the C.A.A or other regulating authority.						
				Signed: For and on behalf of Loadmasters Ltd		
				C.A.A Approval ref. A/9901/04 AND ATR/61.1.6/2405		

LM001 18-4-05



INTRODUCTION

Gulfstream produced this GIV-SP MSN 1353 for the Government of Bahrain in 1998 to support its Head of State transport requirements and from delivery to the present, has been operated by the Bahrain Royal Flight.

The aircraft was delivered to the Bahrain Amiri Flight (changed to Bahrain Royal Flight in 2002) at Gulfstream's Long Beach facility on July 21st 1999 and to date has accumulated approximately 7,629 flight hours.

The aircraft has been exceptionally well maintained and has an impressive modification, ASC/SB compliance status. The GIV-SP has proven to be extremely popular with our Head of State and VIP passengers and has enjoyed a near perfect dispatch reliability record over the years.

AIRCRAFT HISTORY

This GIV-SP 1353 was constructed in October 1998 and accepted by Bahrain Amiri Flight in December 1998. On December 22nd 1998 the aircraft was flown "green" to GAC's Long Beach Completion Centre under the FAA registration of **N353GA**.

Installation of a forward galley/lavatory 14 seat interior was started in January 1999 and on July 21st 1999 the aircraft was delivered to Bahrain Amiri Flight with the Bahrain Civil Aviation Authority registration **A9C-BAH**. The aircraft arrived in Bahrain on July 25th 1999.

The aircraft returned to Long Beach on December 5th 1999 for warranty inspection/rectification work and again on November 26th 2000 for Due List Items and Cabin Modification. For the November 2000 visit, the 4 place Conference Table configuration was removed and replaced with a 2 place pullout table configuration which in turn reduced the total passenger seating to 12.

Whilst registered as A9C-BAH the aircraft has been maintained by Gulfstream Aerospace's Long Beach facility and the following Bahrain CAA Approved Maintenance Repair Organizations:

Marshall Aerospace (Cambridge, UK)
Gulfstream Aerospace (Luton, UK)
Jet Aviation (Geneva, Switzerland)



VIP MAINTENANCE HISTORY

DATE	OPERATOR	STATION	TYPE OF CHECK
17/ 06 / 00	BRF	BAH	OPS 2, 4,9,11,12, + 50 HRS CHECK
21 to 27/07/00	BRF	MARSHALL	OPS 11 , 13, + DUE LIST ITEMS
26/11 - 21/12/00	BRF	GAC	OPS 13 + 50 HRS CHK + DUE LIST ITEMS
27/04 - 02/ 05 /01	BRF	MARSHALL	OPS 11, 12, 13, 24 MOS + 900 HRS
22/ 09 /01	BRF	BAH	OPS 13
03 / 11 / 01	BRF	BAH	OPS 9 , 10, + DUE LIST ITEMS
04/ 12 /01	BRF	BAH	OPS 2 , 4, 11, 12 , 13 , 50 HRS CHECK + DUE LIST ITEMS
02 / 04 / 02	BRF	BAH	OPS 13
20/ 04 /02 to 04/ 05 /02	BRF	MARSHALL	OPS 1 ,7, 11, 13, + 50 HRS CHECK + DUE LIST ITEMS
17 / 04 /02	BRF	BAH	OPS 9 , 10 + DUE LIST ITEMS
07/ 09 /02	BRF	BAH	OPS 13 + 50 HRS CHECK + DUE LIST ITEMS
14/ 10 /02	BRF	BAH	OPS 9 + DUE LIST ITEMS
12/ 11 /02 to 07/ 12 /02	BRF	MARSHALL	OPS 6, 11 , 12, 13, + DUE LIST ITEMS
15/ 04 /03 to 06/ 05 /03	BRF	BAH	OPS 3, 5,7,9,10,11,13, 50HRS CHECK +DUE LIST ITEMS
13/ 10 /03	BRF	BAH	OPS 13 + 50 HRS CHECK + DUE LIST ITEMS
2/ 12 /03 to 5/ 12/ 03	BRF	BAH	OPS 2 + 4+ 11+ 12 + 50 HR CHECK- DUE LIST
13/ 4 /04 to 01/ 05 /04	BRF	LUTON	OPS 1 + 7 +11+ 13+ 50 HRS DUE LIST BORESCOPE INSP / APU P 762
8/ 12 /04	BRF	BAH	1A CHECK (450 HRS) + DUE LIST
15/ 4 /05	BRF	LUTON	1A, 2A, 5A, 10A, 1C, 2C, 3C, 4C @ 6C + APU 450 Hr. CHECK
27/ 04 /06	BRF	LUTON	1A, 2A, 4A, 1C & APU 450 HR CHECK
30/ 04 /07	BRF	LUTON	CHECK 1A + C+ 2C+ 8C + APU 450HRS + DUE LIST + MOD
5/ 5 /08	BRF	LUTON	CHECK 2A+ 5A + 1C +3C + DUE LIST
6/ 5 /09	BRF	BASEL	1A, 2A, 4A, 1C, 2C, 4C, 5C, CHECK, O/PHASE, DUE LIST
21/ 5 /10	BRF	LUTON	1A, 1C + DUE LIST
02/11/10	BRF	AIR LIVERY	PAINTING OF AIRCRAFT



Check	BRF Interval	Comments
A	500 Hrs or 12 Months	
2A to 10A	Multiples of 500 Hrs	
1C to 16C	Multiples of 12 Month freq.	

GULFSTREAM - Enhanced GIV-SP – STC's

- SA2582SO - Modifications to the Cockpit Equipment Arrangement
- SA2657SO - Installation of a Class B Baggage Compartment
- SA2839SO - Mod to allow Display of Course Deviation Info from H/well Laser Track INS on SPZ-8000 or SPZ-8400
- SA3654NM-D - Installation of Cabin Emergency Lighting System
- SA3655NM-D - Installation of Lavatory Service Panel, AFT RH Side
- SA3660NM-D - Installation of a Cockpit Jumpseat (Custom Products 11875-3)
- SA3666NM-D - Installation of Lavatory Service Panel, FWD LH Side
- SA3850NM - Cockpit Sun Vision Installation
- SA4277NM-D - Installation of an Acoustic Liner for the Passenger Cabin Area
- SA4279NM-D - Installation of Magnavox C-2000 Magnastar Digital Airborne Telephone System
- ST00248AT - Installation of a Vertical Fin Mounted Racal Avionics Ltd. Satellite Communication (SATCOM) Radome and Antenna
- ST00524LA-D - Installation of a Honeywell TCAS 2000 TCAS II System
- ST00680LA-D - Installation of Passenger Cabin Interior
- ST00812AT - Installation of Passenger/Crew Emergency Oxygen System Consisting of Three (3) 115 Cubic Foot Oxygen Bottles
- ST01069AT-D - Installation of a Collins TDR-94D MODE S Transceivers
- ST01260AT-D - Installation of a Honeywell P-880 Radar
- ST01457AT-D - Installation of an Alliedsignal Enhanced Ground Proximity Warning System with Windshear
- ST01545AT-D - Installation of a Honeywell TCAS 2000
- ST01716AT-D - Installation of a Single or Dual Honeywell HG2021GD02 12 Channel GPS Interfaced with the NZ-2000 FMS
- ST01851AT-D - Installation of an Alliedsignal Enhanced Ground Proximity Warning System
- ST02848AT-D - Installation of a (RAAS) Software on Honeywell MkV EGPWS System



Enhanced GIV-SP Equipment Fit

Avionics

SPZ-8400	Electronic Display System
SPZ-8400	Automatic Flight Control System
SPZ-8400	Flight Management System
	Dual NZ-2000 Navigation Computers with Version 5.2B software

Navigation Equipment

P880	Honeywell Radar with 24" antenna
HG-1075	Triple Honeywell Inertial Reference Units (with 2 Securaplane EBatts)
CG1230	Lasertrak Navigation Display Unit
HG-2021	Dual Honeywell 12 Channel Global Positioning System
VIR-432	Dual Rockwell Collins VHF Navigation Receivers
DME-442	Dual Rockwell Collins DME Transceivers
ADF-462	Dual Rockwell Collins ADF Receivers
TDR-94D	Dual Rockwell Collins Mode S Transponder System
TCAS 2000	Honeywell Collision Avoidance System (Change 7.0)
EGPWS	Single Allied Signal Mark V Enhanced Ground Proximity Warning System (Software at -226-226 status)

Communications Equipment

VHF-422C	Triple Rockwell Collins VHF Transceivers (8.33 khz compliant)
HF-9032	Dual Rockwell Collins HF with individual controllers
UHF-909	Single Allied Signal UHF Transceiver
MCS-6000	Honeywell 6 channel 'Aero H' SATCOM
C-750	Magnastar Telephone Management Unit
	Four Magnastar Mach-1 Digital Handsets
RTU-4220	Dual Rockwell Collins Radio Tuning Units
B-1045 T	three Baker Audio Control boxes
CSD-714	Single Coltech 5 channel Selcal system
FA2100	Fairchild / Loral Cockpit Voice Recorder
F1000	Fairchild / Loral Digital Flight Data Recorder



Standby Instruments

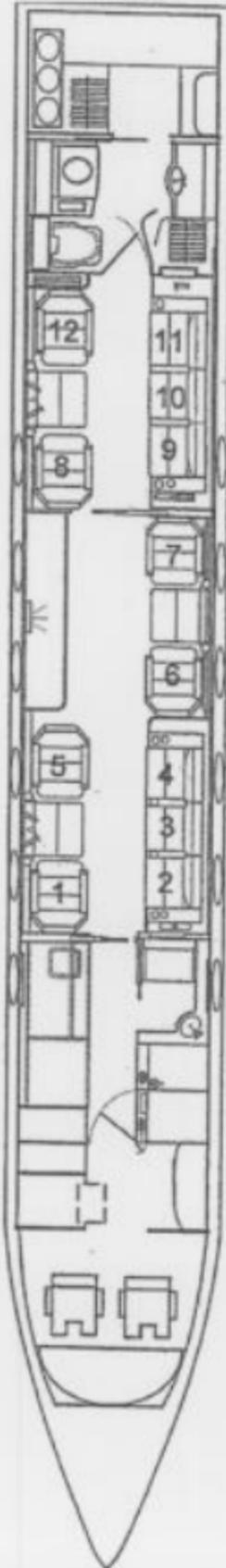
Jaeger:	Single Mach / Airspeed Indicator
Jaeger:	Single Altimeter
Sextant:	Single Horizon Indicator
Aeronetics:	Dual DDRMI
	Wiring is provisioned for Meggitt Secondary Flight Instrument Display

In Flight Entertainment

Genesys	Airshow Digital Interface Unit
Rosen	5.6" LCD Airshow Cockpit Monitor
Baker	Dual 20" LCD Monitors
Rosen	Single 14" LCD Monitor
Rosen	Four 5.6" LCD Monitors
Pacific Systems	Audio / Video Control and Cabin Management system
Omnifax	Fax Machine and Printer
CDX-805	Sony CD player + CD Changer
XRC-6100	Sony Cabin Stereo / Cassette Player
DV-55	Sharp DVD player
HR-J657MS	JVC Multi-Standard VCR player
Bose	Dual Equalizers
Bose	Ten Cabin speakers
Bose	Four Cabin PA speakers
Bose	Three Subwoofer Amplifier
Avionics Inst.	Single 60 Hz Converter (3.5 Kva)

Emergency Equipment

Winslow	Two x Life Rafts each with Techtest 406 Units 500-12Y beacons
RFD	Seventeen Life Vests
	Three Halon Fire Extinguishers
	One Water Fire Extinguisher
	First Aid Kit
	Fire Axe
Scott	Dual Passenger Oxygen Bottles
Scott	Single Crew Oxygen Bottles
Scott	Portable Oxygen Bottle + Mask
	Dual Therapeutic Outlets + Masks
ELT	Artex Triple Frequency (121.5/243/406 Mhz) Emergency Locating System
Securaplane	Four Emergency Batteries



BRF Corp.

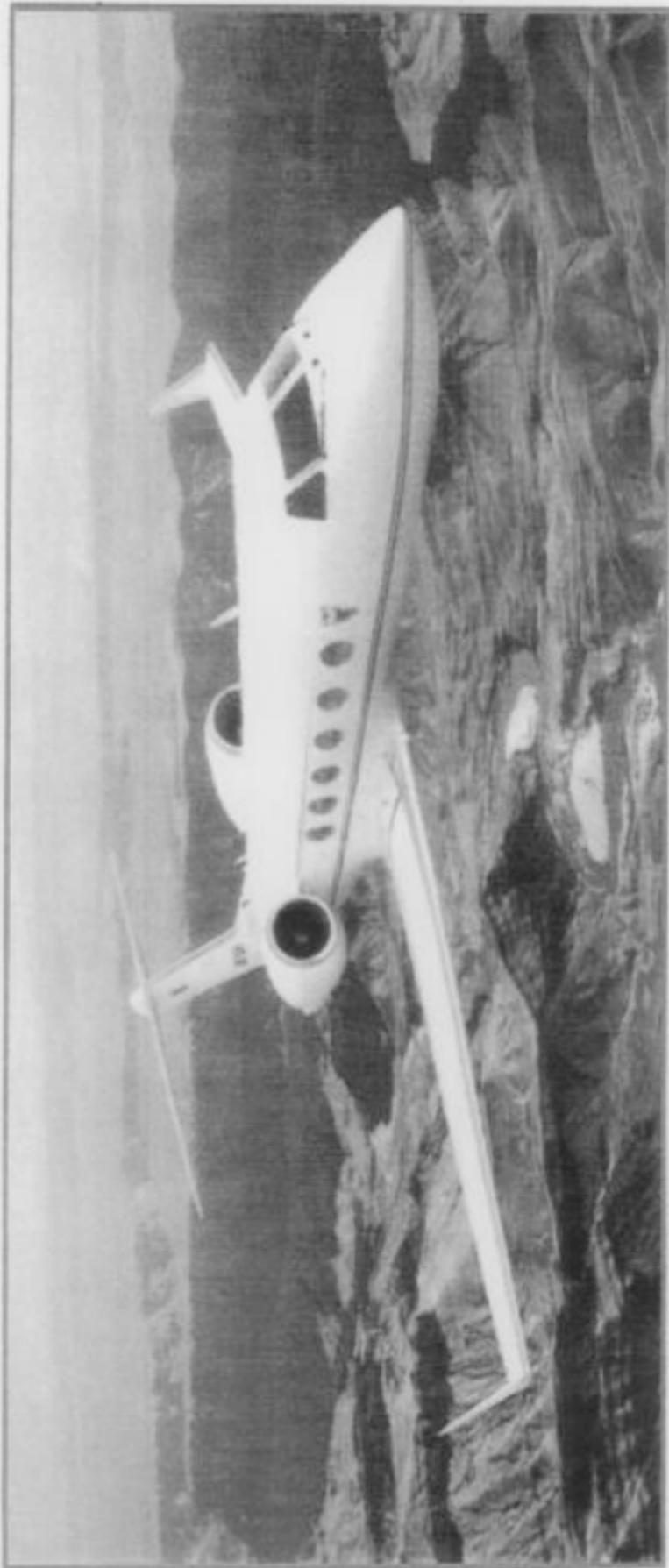
S/N 1353

11



BAHRAIN ROYAL FLIGHT

GULFSTREAM G4
A9C-BAH



CABIN INTERIOR PHOTOGRAPHS

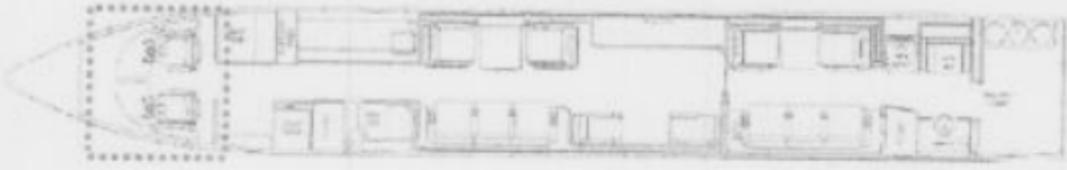
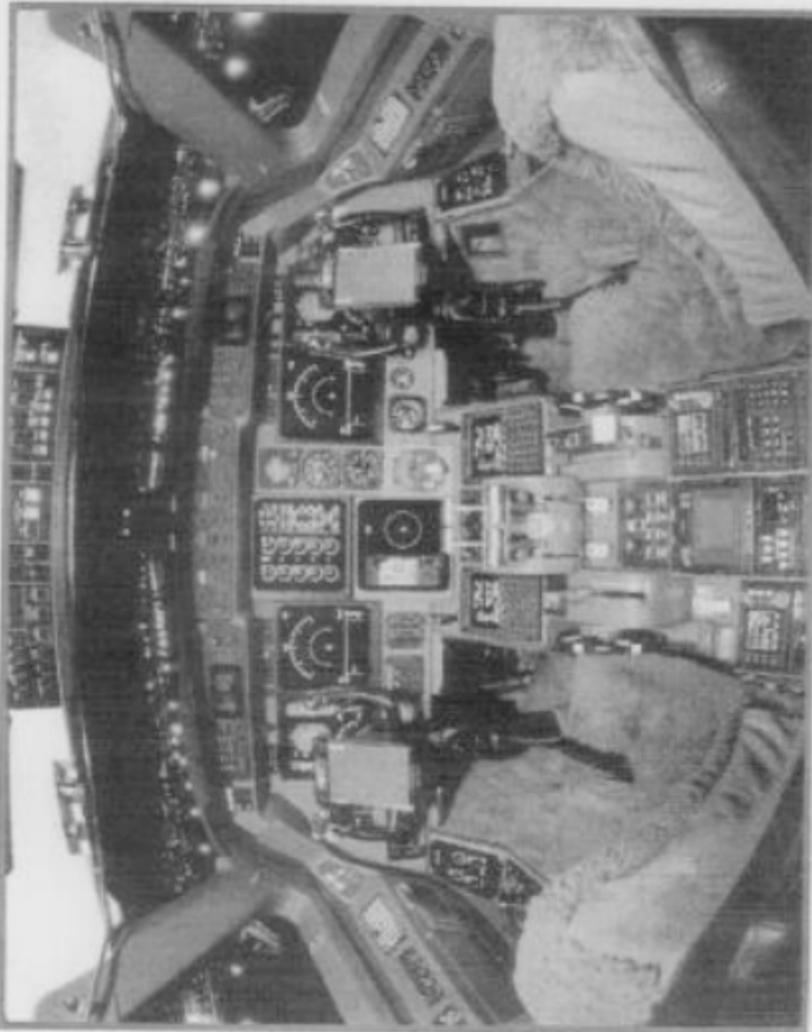


BAHRAIN ROYAL FLIGHT



GULFSTREAM G4
A9C-BAH
CABIN INTERIOR

FLIGHT DECK

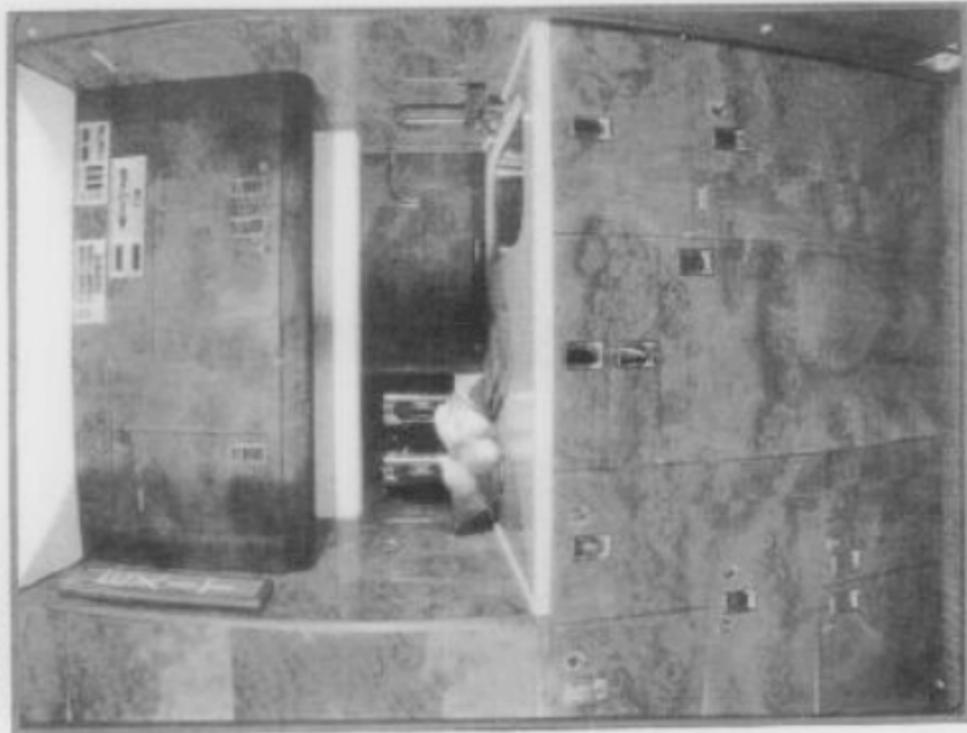


BAHRAIN ROYAL FLIGHT



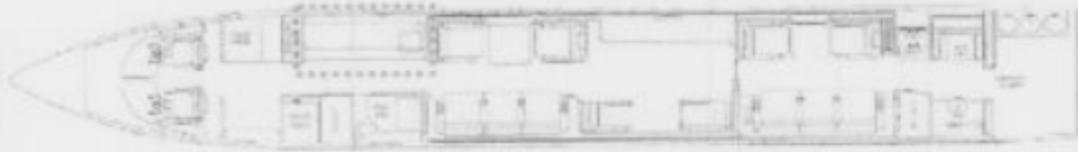
GULFSTREAM G4
A9C-BAH
CABIN INTERIOR

GALLEY



GALLEY

- Equipped with:
 - High Temperature Ovens
 - Hot Cups



High Temperature Ovens



Hot Cups



**GULFSTREAM G4
A9C-BAH
CABIN INTERIOR**



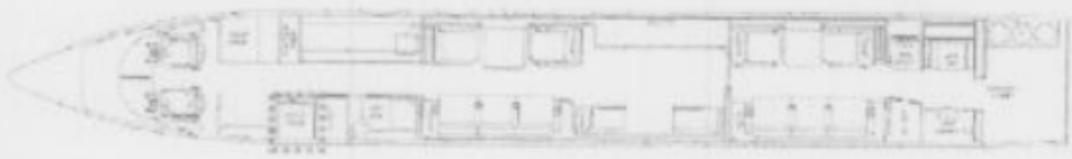
BAHRAIN ROYAL FLIGHT

FWD LAVATORY



LAVATORY

- Equipped with:
- Toilet
- Vanity Unit

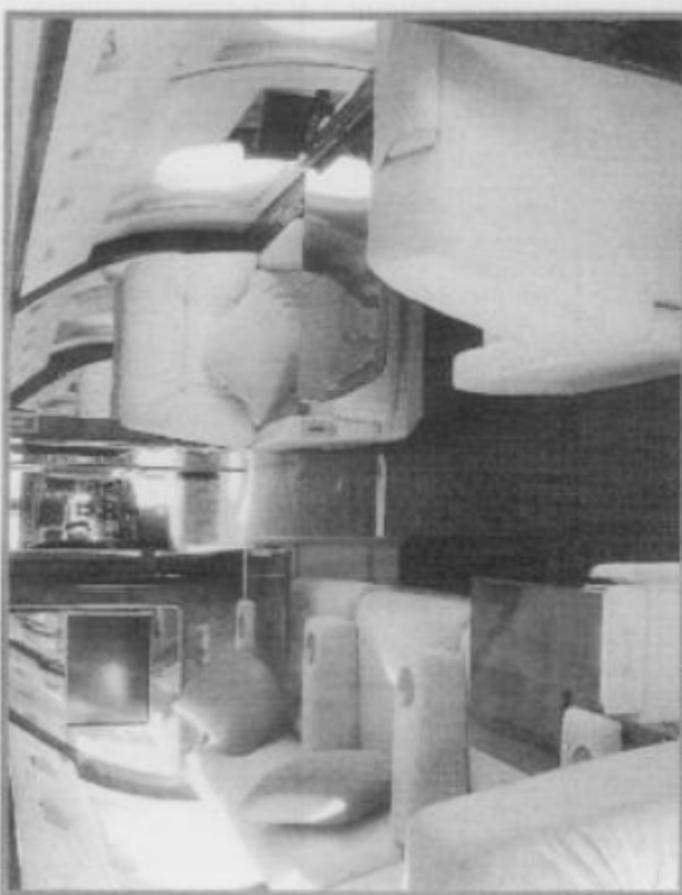


**GULFSTREAM G4
A9C-BAH
CABIN INTERIOR**



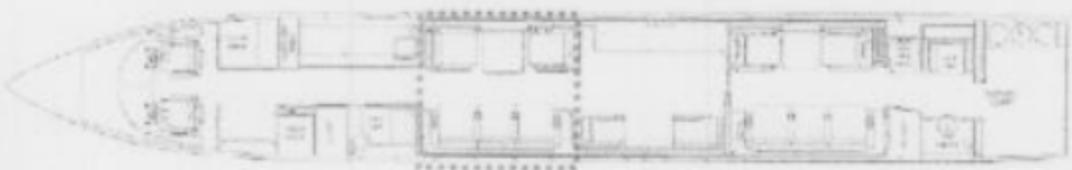
BAHRAIN ROYAL FLIGHT

FWD CABIN



FWD CABIN

- Fixed Divan with no footrest and no recline facility.
- Two single seats, moves FWD to AFT and Side to Side.
- Tray tables for Divan and single seats.



Single Seat



Single Seat Table



Divan in Bed Mode



GULFSTREAM G4
A9C-BAH
CABIN INTERIOR



BAHRAIN ROYAL FLIGHT

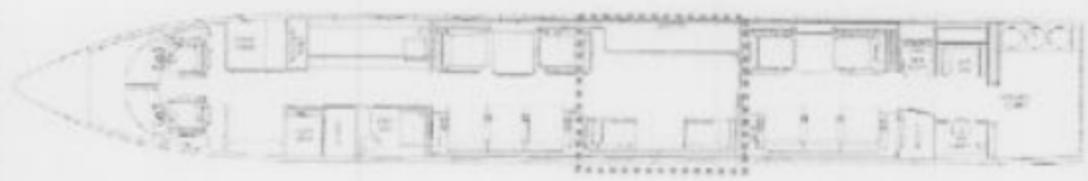
MID CABIN



Single Seat Table

MID CABIN / CREDENZA

- Two single seats, moves FWD to AFT and Side to Side.
- Single seat table
- Credenza with storage facilities.



GULFSTREAM G4 A9C-BAH CABIN INTERIOR



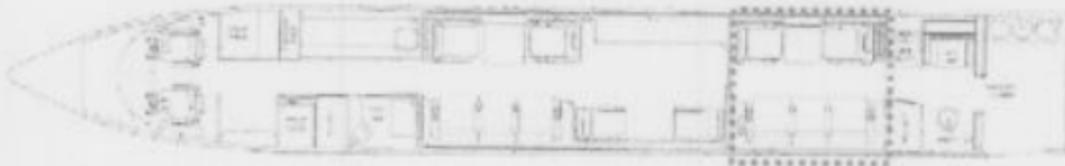
BAHRAIN ROYAL FLIGHT

AFT CABIN



AFT CABIN

- Fixed Divan with no footrest and no recline facility.
- Two single seats, moves FWD to AFT and Side to Side.
- Tray tables for Divan and single seats.



Single Seat



Single Seat Table



GULFSTREAM G4
A9C-BAH
CABIN INTERIOR



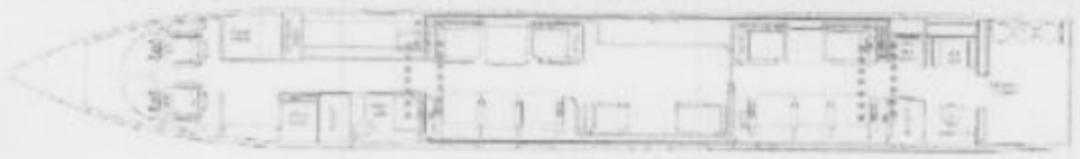
BAHRAIN ROYAL FLIGHT

CABIN DIVIDERS



CABIN DIVIDERS

- Cabin Dividers are located:
 - One leather curtain between the Galley and the FWD Cabin Area.
 - One between the FWD Galley Area and the AFT Cabin Area.
 - One between the AFT Cabin and the AFT Lavatory Area.



**GULFSTREAM G4
A9C-BAH
CABIN INTERIOR**



BAHRAIN ROYAL FLIGHT

AFT LAVATORY



LAVATORY

- Equipped with:
- Toilet
- Vanity Unit
- Bidet

