
AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.001(1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Aerospatiale GY 80 (Horizon) Series Aeroplanes

AD/GY80/8

**Aeroplane Operating Manual - Fuel
Conversion Tables**

**1/2009
TX**

Applicability: (SUD AVIATION, Yves Gardan) GARDAN Model GY 80 series aeroplanes.

Requirement: 1. The use of the unit conversion scales (US Gallon to Imperial Gallon and US Gallon to Litre) indicated on the O-360-A engine fuel consumption curve on Chapter III Page 23 of the GY 80 English Language Operating Manual, dated 1 January 1966, is forbidden.

2. The following conversion data must be used as reference in order to replace the incorrect conversion scales:

(a) Conversion coefficients:

1 US Gallon = 0.8326738 Imperial Gallon = 3.785412 Litre

1 Litre = 0.2641721 US Gallon = 0.2199692 Imperial Gallon

1 Imperial Gallon = 1.20095 US Gallon = 4.546092 Litre

(b) Conversion Tables:

US Gallons	Imperial Gallons	Litres
5	4.2	18.9
6	5	22.7
7	5.8	26.5
8	6.7	30.3
9	7.5	34
10	8.33	37.8
11	9.16	41.6
12	10	45.4

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AD/GY80/8 (continued)

13	10.8	49.2
14	11.7	53
15	12.5	56.8
16	13.3	60.6
17	14.16	64.4

Imperial Gallons	US Gallons	Litres
4	4.8	18.2
5	6	22.7
6	7.2	27.3
7	8.4	31.8
8	9.6	36.4
9	10.8	40.9
10	12	45.5
11	13.2	50
12	14.4	54.6
13	15.6	59.1
14	16.8	63.7

Litres	US Gallons	Imperial Gallons
20	5.3	4.4
25	6.6	5.5
30	7.9	6.6
35	9.25	7.7

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AD/GY80/8 (continued)

40	10.6	8.8
45	11.9	9.9
50	13.2	11
55	14.5	12.1
60	15.85	13.2
65	17.2	14.3

3. Insert a copy of this AD in the GY 80 Operating Manual facing Page 23 of Chapter III.

The requirements of this AD may be accomplished and certified by a pilot holding an endorsement for the aircraft.

Note 1: As the type certificate of the GY 80 aeroplane has been surrendered ("orphan" aircraft), the Operating Manual will not be revised by any type certificate holder.

Note 2: EASA Emergency AD 2008-0200-E dated 13 November 2008 refers.

Compliance: Before further flight after the effective date of this AD, unless previously accomplished.

This Airworthiness Directive becomes effective on 18 November 2008.

Background: A mistake has been found in the GY 80 English Language Operating Manual, dated 1 January 1966. This mistake concerns the unit conversion scales indicated on the fuel consumption curve for Lycoming O-360-A engine and it may have been the cause of an accident.

To address this condition, this AD forbids the use of the existing conversion scales and provides correct conversion data to be inserted into the Aeroplane Operating Manual.



James Coyne
Delegate of the Civil Aviation Safety Authority

14 November 2008