

## (2) Rolls Royce Viper Engines

UK National Airworthiness Directives previously published in CAP 476 – Mandatory Aircraft Modifications and Inspections Summary

**CAA AD No:** 0040 PRE 80

**Associated Material:** CV 3370 (Pre-Mod. CV 7136)

**Description:** Engine – Compressor – Introduction of lengthened compressor casing centre section joint flange.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 520 and 521. Compliance required by 31 March 1971.

**CAA AD No:** 0041 PRE 80

**Associated Material:** 72–A69

**Description:** Engine – Introduction of inner exhaust cone with improved front diaphragm weld.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601–22. Compliance as detailed in Service Bulletin.

**CAA AD No:** 0042 PRE 80

**Associated Material:** 73–10

**Description:** Engine Fuel and Control – high pressure fuel pump.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601–22. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 0043 PRE 80

**Associated Material:** 73–A13

**Description:** Engine Fuel and Control – Servo to EPC tube unit – clearance between tube unit and HP cock operating rod.

**Applicability – Compliance – Requirement**

Service Bulletin has been cancelled and the information incorporated in the Time Limits Section of Maintenance and Overhaul Manuals. Therefore the AD has been cancelled.

**CAA AD No:** 0044 PRE 80

**Associated Material:** 73–A15

**Description:** Engine Fuel and Control – HP fuel pump to automate thrust limiter – alignment check.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601–22. Compliance as detailed in Alert Service Bulletin.

**CAA AD No:** 0045 PRE 80

**Associated Material:** 73-A17 (CV 4323)

**Description:** Engine Fuel and Control – Fuel tubes – Introduction of a modified flexible fuel tube.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601–22. Compliance required not later than 31 December, 1978.

**CAA AD No:** 0046 PRE 80

**Associated Material:** 73-A98

**Description:** Engine Fuel and Control – Servo to EPC tube unit – Clearance between tube unit and HP cock operating rod.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 521 and 522. Compliance required not later than 30 November, 1975.

**CAA AD No:** 0047 PRE 80

**Associated Material:** 75-A31

**Description:** Air – Compressor – Blow-off valve – valve seizure.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 521 and 522 Compliance required within 28 days from receipt of this Bulletin and at intervals not exceeding 300 hours thereafter.

**CAA AD No:** 0048 PRE 80

**Associated Material:** 75-A32

**Description:** Air – Blow-off Valve – revised operating limit.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 521 and 522. Compliance required not later than 30 June 1979.

**CAA AD No:** 0049 PRE 80

**Associated Material:** 73-A101

**Description:** Engine Fuel and Control – Inspection of fuel pump blanking plugs and connections.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 520, 521 and 522. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 020-06-80

**Associated Material:** 73-A19

**Description:** Engine Fuel and Control – Fuel Pump – Inspection of fuel pump blanking plugs and connections.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601-22. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 010-10-80

**Associated Material:** 72-A338

**Description:** Engine – Exhaust cone assembly – Inspection of cap nuts and stay pins.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 520, 521 and 522. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 012-10-88

**Associated Material:** 75-A11

**Description:** Air – Blow-off valve – Revised operating limit.

**Applicability – Compliance – Requirement**

Service Bulletin has been cancelled and the information incorporated in the Time Limits Section of Maintenance and Overhaul Manuals. Therefore the AD has been cancelled.

**CAA AD No:** 049-09-89

**Associated Material:** 72-A154

**Description:** Engine – Compressor – Reduction of cyclic life of stages 5 and 6 compressor disc.

**Applicability – Compliance – Requirement**

Service Bulletin has been cancelled and the information incorporated in the Time Limits Section of Maintenance and Overhaul Manuals. Therefore the AD has been cancelled.

**CAA AD No:** 050-09-89

**Associated Material:** 72-A372

**Description:** Engine – Compressor – Reduction of cyclic life of stages 5 and 6 compressor disc.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 520, 521 and 522. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 015-04-90

**Associated Material:** 79-A4

**Description:** Engine – Oil – Check for correct seating of oil tank drain valve.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601-22. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 030-04-90

**Associated Material:** 72-A381

**Description:** Engine – Lubrication – Check for correct seating of oil tank and oil pump drain valves.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 520, 521 and 522. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 011-05-90

**Associated Material:** 72-A243

**Description:** Engine – Lubrication – Check for correct seating of oil tank and oil pump drain valves.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 526. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 002-07-90

**Associated Material:** 72-A388

**Description:** Engine – Centre section – Inspection for pulled inserts.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 520, 521 and 522. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 003-07-90

**Associated Material:** 72-A249

**Description:** Engine – Centre section – Inspection for pulled inserts.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 526. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 004-07-90

**Associated Material:** 72-A173

**Description:** Engine – Centre section – Inspection for pulled inserts.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601-22. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 020-02-91

**Associated Material:** 73-A52

**Description:** Engine Fuel and Control – Fuel pump – Inspection of fuel pump blanking plugs and connections.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 526. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 021-02-91

**Associated Material:** 72-A233

**Description:** Engine – Compressor – Reduction of cyclic life of stages 5 and 6 compressor disc.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 526. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 003-02-96

**Associated Material:** 73-A115

**Description:** Engine Fuel and Control – Introduction of fuel pump types MGBB.183 and MGBB.184

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 522. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 004-02-96

**Associated Material:** 73-A118

**Description:** Engine Fuel and Control – Introduction of fuel pump types MGBB.181 and 182.

**Applicability – Compliance – Requirement**

Applicable to Viper Mks 520 and 521. Compliance required as detailed in Alert Service Bulletin.

**CAAAD No:** 008–11–97

**Associated Material:** 73–A121

**Description:** Engine Fuel and Control – Joint washer replacement – Augmentor and by-pass valve assembly to BFCU body.

**Applicability – Compliance – Requirement**

Applicable to Viper Mks 520/521 and 522. Compliance required as detailed in Alert Service Bulletin.

**CAAAD No:** 009–11–97

**Associated Material:** 73–A35

**Description:** Engine Fuel and Control – BFCU – Inspection of Augmentor and by-pass valve assembly joint washer.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601. Compliance required as detailed in Alert Service Bulletin.

**CAAAD No:** 010–11–97

**Associated Material:** 73–A36

**Description:** Engine Fuel and Control – Joint washer replacement – Augmentor and by-pass valve assembly to BFCU body.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601. Compliance required as detailed in Alert Service Bulletin.

**CAAAD No:** 011–11–97

**Associated Material:** 73–A120

**Description:** Engine Fuel and Control – BFCU – Inspection of Augmentor and by-pass valve assembly joint washer.

**Applicability – Compliance – Requirement**

Applicable to Viper Mks 520/521 and 522. Compliance required as detailed in Alert Service Bulletin.

**CAAAD No:** 012–11–97

**Associated Material:** 73–A68

**Description:** Engine Fuel and Control – BFCU – Inspection of Augmentor and by-pass valve assembly joint washer

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 526. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 013-11-97

**Associated Material:** 73-A69

**Description:** Engine Fuel and Control – Joint washer replacement – Augmentor and by-pass valve assembly to BFCU body.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 526. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 003-06-99

**Associated Material:** 72-A176

**Description:** Engine – Compressor – Zero stage compressor stator vane cracking.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601-22. Compliance required as detailed in Alert Service Bulletin.

**CAA AD No:** 004-01-2001

**Associated Material:** 72-A184

**Description:** Engine – 1st stage turbine rotor blades – New life limits.

**Applicability – Compliance – Requirement**

Applicable to Viper Mk 601-22. Compliance required as detailed in Alert Service Bulletin.