

## (2) British Aerospace Dynamics Group

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

### Bracket Propellers and Equipment

**CAA AD No:** 2164 PRE 80

**Associated Material:** 5226

**Description:** Propeller Types PD 136/ 212/1/2 (Heron)  
PD 170/ 212/1/2 (Heron)  
PD 175/ 212/1/2 (Heron)  
Introduction of stronger counterweight bracket.

#### Applicability – Compliance – Requirement

Modification News Sheet 2BCS Series No. 81 refers. Compliance required not later than first overhaul after 1 November 1962.

**CAA AD No:** 2165 PRE 80

**Associated Material:** 7204

**Description:** Constant Speed Units PAX 16 (Heron)  
PAX 16/B (Heron)  
Introduction of improved relief valve.

#### Applicability – Compliance – Requirement

Modification News Sheet 2BCS Series No. 75 refers. Compliance required immediately. Satisfies Special Propeller Technical Instruction No. 30.

**CAA AD No:** 2166 PRE 80

**Associated Material:** 25697

**Description:** Propeller Types PD 70/212/1 (Prentice)  
PD 136/212/1 (Heron)  
PD 170/212/1 (Heron)  
PD 175/212/1 (Heron)  
Front cone seat machine finished in situ, and changes propeller types to /2.

#### Applicability – Compliance – Requirement

Modification News Sheet 2BCS Series No. 86 refers. Compliance required not later than first overhaul after 1 February 1965.

**CAA AD No:** 2167 PRE 80

**Associated Material:** 29027

**Description:** Propeller Types PD 36/ 212/1/2 (Heron)  
PD 170/ 212/1/2 (Heron)  
PD 175/ 212/1/2 (Heron)  
Simplified method of locking the oil transfer tube which cannot interfere with the tightening of the propeller.

**Applicability – Compliance – Requirement**

Modification News Sheet 2BCS Series No. 88 refers. Compliance required not later than first overhaul after 1 April 1968.

**CAA AD No:** 2168 PRE 80

**Associated Material:** 29104

**Description:** Propeller Types PD 136/ 212/1/2 (Heron)  
PD 170/ 212/1/2 (Heron)  
PD 175/ 212/1/2 (Heron)  
Improved assembly standard of barrel support blocks.

**Applicability – Compliance – Requirement**

Modification News Sheet 2BCS Series No. 87 refers. Compliance required not later than first overhaul after 1 November 1967.

## Inspections

**CAA AD No:** 2169 PRE 80

**Associated Material:** –

**Description:** Constant Speed Units PAX 16 (Heron)  
PAX 16/B (Heron).  
Inspection and alteration of relief valve cap.

**Applicability – Compliance – Requirement**

Special Propeller Technical Instruction No. 30 refers. No action required if Modification 7204 Modification News Sheet 2BCS Series No. 75 embodied.

**CAA AD No:** 2170 PRE 80

**Associated Material:** –

**Description:** Propeller Types PD 136/ 212/1/2 (Heron)  
PD 170/ 212/1/2 (Heron)  
PD 175/ 212/1/2 (Heron)

**Applicability – Compliance – Requirement**

Publication 2BCS Revision 28 refers.

**CAA AD No:** 2171 PRE 80

**Associated Material:** –

**Description:** Propeller Type PD 70/ 212/1/2 (Prentice)  
Periodic checks to be carried out.

**Applicability – Compliance – Requirement**

Publication 2BCS Revision 28 refers.

### **Britannia Propellers and Equipment**

**CAA AD No:** 2172 PRE 80

**Associated Material:** 6739

**Description:** Controller Type PAY 81406/B (Britannia 300)  
PAY 81407/B (Britannia 300)  
Conversion to Types PAY 81408 & PAY 81409.

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 93 refers. Compliance required not later than 1 April 1960.

**CAA AD No:** 2173 PRE 80

**Associated Material:** 8383

**Description:** Synch switch units PQ 1088/1/2 (Britannia 300)  
PQ 1095/1/2 (Britannia 100)  
'All propellers increase/decrease.'  
Switch to be changed for new type.

**IMPORTANT NOTE:** Part of this Modification has been superseded by Modification 26243 (See Modification News Sheet No. 538.)

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 309 refers. Compliance required not later than first overhaul after 1 January 1960. See also Technical News Sheet Britannia No. 54.

**CAA AD No:** 2174 PRE 80

**Associated Material:** 10584

**Description:** Controller Type PAY 81404 to PAY 81409 (Britannia 100 and 300)  
Introduction of re-designed shuttle valve bush.

**Applicability – Compliance – Requirement**

Modification News Sheet No. 300 refers. Compliance required not later than 1 June 1959.

**CAA AD No:** 2175 PRE 80

**Associated Material:** 11445

**Description:** Controller Types PAY 81404 to PAY 81409 (Britannia 100 and 300).

**IMPORTANT NOTE:** This Modification has been superseded by Modification 24038 (see Modification News Sheet Britannia No. 487).

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 309 refers. Compliance required not later than first overhaul after 1 January 1960.

**CAA AD No:** 2176 PRE 80

**Associated Material:** 11513

**Description:** Controller Types PAY 81406 to PAY 81409 (Britannia 100 and 300).  
Introduction of filter to pressure setting valve. after 1 April 1960.

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 342 refers. Compliance required not later than first overhaul.

**CAA AD No:** 2177 PRE 80

**Associated Material:** 14064

**Description:** Controller Types PAY 81406 to PAY 81409 (Britannia 100 and 300).  
Reintroduction of bolts to secure shield to Governor carrier.

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 376 refers. Compliance required not later than first overhaul after 1 April 1960.

**CAA AD No:** 2178 PRE 80

**Associated Material:** 14606

**Description:** Propeller Types PD 208/466/2 (Britannia 300) PD 208/466/3 (Britannia 100). Cadmium Plate rear of barrel.

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 464 refers. Compliance required not later than first overhaul after 1 December 1962.

**CAA AD No:** 2179 PRE 80

**Associated Material:** 14771

**Description:** Propeller Types PD 208/466/2 (Britannia 300) PD 208/466/3 (Britannia 100). Introduction of an improved Piston Relief Valve to avoid high fluctuating pressures in the pitch change mechanism.

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 429 refers. Compliance required not later than first overhaul after 1 July 1962.

**CAA AD No:** 2180 PRE 80

**Associated Material:** 14877, 14952, 24195 and 24196

**Description:** Controller Types PAY 81406 to PAY 81409 (Britannia 100 and 300).  
Improved running conditions for idler shaft.

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 427, Revision 4, refers. Compliance required not later than first overhaul after 1 November 1963.

**CAA AD No:** 2181 PRE 80

**Associated Material:** 24038

**Description:** Controller Types PAY 81406 to PAY 81409 (Britannia 100 and 300).  
Governor weights and legs brazed and riveted for additional security.

**Applicability – Compliance – Requirement**

Modification News Sheet No. 487 refers. Compliance required not later than first overhaul after 1 July 1965.

**CAA AD No:** 2182 PRE 80

**Associated Material:** 24276

**Description:** Propeller Types PD 208/466/2 (Britannia 300) PD 208/466/3 (Britannia 100). Introduction of blend radius on internal step of piston.

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 500 refers. Compliance required not later than first overhaul after 1 August 1963.

**CAA AD No:** 2183 PRE 80

**Associated Material:** 25264

**Description:** Actuator Control Box Type PQ 1089/–/1 (Britannia 300). Positive location of Selsyn Generator control arms.

**Applicability – Compliance – Requirement**

Modification News Sheet No. 515 refers. Compliance required not later than 1 August 1964.

**CAA AD No:** 2184 PRE 80

**Associated Material:** 25606

**Description:** Propeller Types PD 208/466/2 (Britannia 300) PD 208/466/3 (Britannia 100). Removal of plating from spider radius resulting from embodiment of Repair Schemes P165 and/or P173.

**IMPORTANT NOTE:** These repair Schemes have been superseded by Repair Scheme P753 (Modification No. 29946) see Technical News Sheet No. 62.

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 522 refers. Compliance required not later than first overhaul after 1 December 1964.

**CAA AD No:** 2185 PRE 80

**Associated Material:** 26243

**Description:** Synch switch units PQ 1088/2 (Britannia 300) PQ 1095/2 (Britannia 100). 'All propellers increase/decrease' switch with improved spring.

**IMPORTANT NOTE:** This modification is not mandatory, but is included for information because it supersedes part of Modification 8383 (Modification News Sheet Britannia No.241).

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 538 refers. Compliance recommended at first overhaul after 1 August 1966, or during repair.

**CAA AD No:** 2186 PRE 80

**Associated Material:** 29683

**Description:** Pump Unit, Feathering, assembly type: PFD 6306. Introduction of bleed valve associated with Rolls-Royce Bristol Siddeley Proteus engine Modification No. 632.

**Applicability – Compliance – Requirement**

Modification News Sheet Britannia No. 586 refers. Compliance required by 31 December 1971.

**CAA AD No:** 2187 PRE 80

**Associated Material:** –

**Description:** Propeller Types PD 208/466/2 (Britannia 300) PD 208/466/3 (Britannia 100). Periodic checks to be carried out.

**Applicability – Compliance – Requirement**

Publication 5200 Revision 25 refers.

**CAA AD No:** 2188 PRE 80

**Associated Material:** –

**Description:** Synch switch units PQ 1088/2 (Britannia 300) PQ 1095/2 (Britannia 100). 'All propellers increase/decrease' switch life limited to 1800 hours unless Modification 26243 embodied.

**Applicability – Compliance – Requirement**

Technical News Sheet Britannia No. 54 Revision 2 refers.

**CAA AD No:** 2189 PRE 80

**Associated Material:** –

**Description:** Propeller Types PD 208/466/2 (Britannia 300) PD 208/446/3 (Britannia 100). Repair Scheme P556 superseded by P753A, P753B or P753C.

**IMPORTANT NOTE:** No action is required if:

- 1 Propellers overhauled by Hawker Siddeley Dynamics since 30 November 1970,
- OR
- 2 Modification 29953 (MNS BRIT 592) or Modification 29954 (MNS BRIT 894) embodied.

**Applicability – Compliance – Requirement**

Technical News Sheet Britannia No. 62 refers. Compliance required not later than 31 December 1973.

**CAA AD No:** 2190 PRE 80

**Associated Material:**

**Description:** Synch Switch Unit PQ1088/2 (Britannia 300) – check security of 'All propellers increase/ decrease' switch dolly.

**Applicability – Compliance – Requirement**

Technical News Sheet Britannia No. 63 refers. Compliance required before 1 February 1974.

### **Heron Hydromatic Propellers and Equipment**

**CAA AD No:** 2191 PRE 80

**Associated Material:** 7484

**Description:** Spinner Type PPS 2129501. Strengthened backplate unit and improved lock body.

**Applicability – Compliance – Requirement**

Modification News Sheet Heron No. 24 refers. Compliance required not later than 1 July 1963. See also Special Propeller Technical Instruction No. 32.

**CAA AD No:** 2192 PRE 80

**Associated Material:** 8913

**Description:** Feathering Unit Type PFD 2205. Conversion to Type PFD 3001 by reversal of drive gear.

**Applicability – Compliance – Requirement**

Modification News Sheet Heron No. 26 refers. Compliance required immediately. Satisfies Special Propeller Technical Instruction No. 34.

**CAA AD No:** 2193 PRE 80

**Associated Material:** 14724

**Description:** Constant Speed Unit Type PAY 208. Repair scheme to obviate leakage between constant speed units and engine.

**Applicability – Compliance – Requirement**

Modification News Sheet Heron No. 28 refers. Compliance required not later than first overhaul after 1 December 1961.

## Inspections

**CAA AD No:** 2194 PRE 80

**Associated Material:** –

**Description:** Feathering Unit Type PFD 2205. Conversion to Type PFD 3001 by embodiment of Modification 8913.

**Applicability – Compliance – Requirement**

Special Propeller Technical Instruction No. 34 refers. Compliance required immediately. No action required if Modification 8913 Modification News Sheet No. 26 embodied.

## Pembroke, Prince and President Propellers and Equipment

**CAA AD No:** 2195 PRE 80

**Associated Material:** 7290

**Description:** Constant Speed Unit Types PAY 30404 (Prince)  
PAY 30404 (Pembroke)  
PAY 30405 (Pembroke)  
PAY 30405 (President)  
Introduces new coupling and drive gear having improved splines.

**Applicability – Compliance – Requirement**

Modification News Sheet 3HFB Series No. 257 refers. Compliance required not later than first overhaul after 1 December 1957. Satisfies Special Propeller Technical Instruction No. 31.



**CAA AD No:** 2196 PRE 80

**Associated Material:** 7627

**Description:** Constant Speed Unit Types PAY 30404 (Prince)  
PAY 30404 (Pembroke)  
PAY 30405 (Pembroke)  
PAY 30405 (President)

Strengthened spring for change over valve.

**Applicability – Compliance – Requirement**

Modification News Sheet 3HFB Series No. 269 refers. Compliance required not later than first overhaul after 1 May 1959.

### Inspections

**CAA AD No:** 2197 PRE 80

**Associated Material:** –

**Description:** Constant Speed Unit Types PAY 30404 (Prince)  
PAY 30404 (Pembroke)  
PAY 30405 (Pembroke)  
PAY 30405 (President)

Periodic check to be carried out if Modification 7290 not embodied.

**Applicability – Compliance – Requirement**

Special Propeller Technical Instruction No. 31 refers. No action required if Modification 7290 Modification News Sheet 3HFB Series No. 257 embodied.

### Pioneer (Twin and Single) Propellers and Equipment

**CAA AD No:** 2198 PRE 80

**Associated Material:** 7290

**Description:** Constant Speed Unit Types PAY 30405(Single).  
Introduces new coupling and drive gear having improved splines.

**Applicability – Compliance – Requirement**

Modification News Sheet 3HFB Series No. 257 refers. Compliance required not later than first overhaul after 1 December 1957. Satisfies Special Propeller Technical Instruction No. 31.

**CAA AD No:** 2199 PRE 80

**Associated Material:** 7500

**Description:** Constant Speed Unit Types PAY 31202 (Twin). Introduces new drive shaft and couplings having improved splines.

**Applicability – Compliance – Requirement**

Modification News Sheet Twin Pioneer No 17 refers. Compliance recommended at first overhaul after March 1959. Satisfies Special Propeller Technical Instruction No. 31.

**CAA AD No:** 2200 PRE 80

**Associated Material:** 7627

**Description:** Constant Speed Unit Type PAY 30405 (Single). Strengthened spring for changeover valve.

**Applicability – Compliance – Requirement**

Modification News Sheet 3HFB Series No. 269 refers. Compliance required not later than first overhaul after 1 May 1959.

**CAA AD No:** 2201 PRE 80

**Associated Material:** 9205

**Description:** Propeller Type PD 205/323/1 (Twin). Improved tab washer.

**IMPORTANT NOTE:** This Modification is not mandatory but is included for information because its embodiment satisfies Special Propeller Technical Instruction No. 35.

**Applicability – Compliance – Requirement**

Modification News Sheet Twin Pioneer No. 18 refers. Compliance recommended at first overhaul after 1 December 1968, or during repair. Satisfies Special Propeller Technical Instruction No. 35.

**CAA AD No:** 2202 PRE 80

**Associated Material:** 25717

**Description:** Propeller Types PD 205/323/1 (Twin)  
PD 237/323/1 (Twin)  
Increased clearance between piston and dome shell.

**Applicability – Compliance – Requirement**

Modification News Sheet Twin Pioneer No. 37 refers. Compliance required not later than 1 July 1969.

## Inspections

**CAA AD No:** 2203 PRE 80

**Associated Material:** –

**Description:** Constant Speed Unit Types PAY 30405 (Single)  
PAY 31202 (Twin)  
Periodic check to be carried out if Modification 7290 (Single) and  
Modification 7500 (Twin) not embodied.

**Applicability – Compliance – Requirement**

Special Propeller Technical Instruction No. 31 refers. No action required if Modification 7290  
Modification News Sheet 3HFB Series No. 257 (Single) embodied or Modification 7500  
Modification News Sheet Twin Pioneer No. 17 (Twin) embodied.

**CAA AD No:** 2204 PRE 80

**Associated Material:**

**Description:** Propeller Type PD 205/323/1 (Twin). Periodic check to be carried out if  
Modification 9205 not embodied.

**Applicability – Compliance – Requirement**

Special Propeller Technical Instruction No. 35 refers. No action required if Modification News  
Sheet Twin Pioneer No. 18 embodied.

## Vanguard Propeller and Equipment

**CAA AD No:** 2205 PRE 80

**Associated Material:** 13501

**Description:** Controller Type PAY 85004 (Van 951 and 953)  
PAY 85201 (Van 952).  
Strengthened material for third oil line R/V housing.

**Applicability – Compliance – Requirement**

Service Bulletin 61–465 refers. Compliance required not later than first overhaul after 1 February  
1973.

**CAA AD No:** 2206 PRE 80

**Associated Material:** 13610 or 18305

**Description:** Controller Types PAY 85004 (Van 951 and 953)  
PAY 85201 (Van 952).  
Strengthened end plate for fine pitch resistor valve.

**Applicability – Compliance – Requirement**

Service Bulletin A61–45C and A61–57C refer. Compliance required not later than 20 May 1961.

**CAA AD No:** 2207 PRE 80

**Associated Material:** 18374

**Description:** Propeller Type PD 223/466/3. Cadmium plate rear of barrel.

**Applicability – Compliance – Requirement**

Service Bulletin 61–165C refers. Compliance required not later than first overhaul after 1 February 1963.

**CAA AD No:** 2208 PRE 80

**Associated Material:** 18608

**Description:** Controller Types PAY 85004 (Van 951 and 953)  
PAY 85201 (Van 952).  
Improved governor leg drop-limiting stops.

**Applicability – Compliance – Requirement**

Service Bulletin 61–135C refers. Compliance required not later than 1 February 1962.

**CAA AD No:** 2209 PRE 80

**Associated Material:** 25615

**Description:** Propeller Type PD 223/466/3. Improved No. 2 stop piston.

**Applicability – Compliance – Requirement**

Service Bulletin Vanguard 61–254 refers. Compliance required not later than first overhaul after 1 March 1965.

**CAA AD No:** 2210 PRE 80

**Associated Material:** 29946

**Description:** Propeller type PD223/466/3 repair scheme P556 superseded by P753A, P753B or P753C.  
Removal of plating from spider radius.

**IMPORTANT NOTE:** No action is required if:

1 Propellers overhauled by Hawker Siddeley Dynamics since 31 December 1973

or

2 Modification 30352 (SB 61–477) embodied

or

3 \*New spider Part No. 7P73690 with repair scheme P658 embodied fitted at last overhaul.

\*Note 1 Spiders to this standard are acceptable for one overhaul life only. Modification 29946 must then be incorporated before further service.

\*Note 2 Spiders to this standard are not affected by the completion date of 31 December 1976.

**Applicability – Compliance – Requirement**

Service Bulletin Vanguard 61–473 refers. Compliance required not later than 31 December 1976.

**CAA AD No:** 2211 PRE 80

**Associated Material:** 30039

**Description:** Propeller Type PD 223/466/3. Strengthened distributor housing.

**Applicability – Compliance – Requirement**

Service Bulletin Vanguard 61–450 refers. Compliance required not later than first overhaul after 1 April 1971.

**CAA AD No:** 2212 PRE 80

**Associated Material:** 30854

**Description:** Propeller type PD 223/446/3. Improved assembly technique of distributor housing bolts.

**Applicability – Compliance – Requirement**

Service Bulletin Vanguard 61–489 refers. Compliance within next 500 hours time in-service from 10 April 1976 but not later than 10 October 1976.

### **CL44 Propeller and Equipment**

**CAA AD No:** 2213 PRE 80

**Associated Material:** 13610 or 18305

**Description:** Controller Types      PAY 85400 (CL44)  
    PAY 85401 (CL44)  
    PAY 85402 (CL44)  
    Strengthened endplate for fine pitch restrictor valve.

**Applicability – Compliance – Requirement**

Service Bulletin A61–45C and A61–57C refers. Compliance required not later than 20 May 1961.

**CAA AD No:** 2214 PRE 80

**Associated Material:** 18374

**Description:** Propeller Type PD 228/476/3. Cadmium plate rear of barrel.

**Applicability – Compliance – Requirement**

Service Bulletin 61–165C refers. Compliance required not later than first overhaul after 1 February 1963.

**CAA AD No:** 2215 PRE 80

**Associated Material:** 18608

**Description:** Controller Type PAY 85402 (CL44). Improved governor leg drop-limiting stops.

**Applicability – Compliance – Requirement**

Service Bulletin 61–135C refers. Compliance required not later than 1 February 1962.

**CAA AD No:** 2216 PRE 80

**Associated Material:** 25946

**Description:** Propeller Type PD 228/476/3 (CL44). Introduction of Repair Scheme P643 to improve the fatigue strength of the barrel.

**Applicability – Compliance – Requirement**

Service Bulletin CL44 61–198. Compliance required not later than 10,500 total life.

**CAA AD No:** 2217 PRE 80

**Associated Material:** 30236

**Description:** Propeller Type PD228/476/3. Strengthened distribution housing.

**Applicability – Compliance – Requirement**

Service Bulletin 61–378 Revision 1 refers. Compliance required not later than 31 December 1976. To be embodied concurrently with Mod 30854.

**CAA AD No:** 2218 PRE 80

**Associated Material:** 30854

**Description:** Propeller Type PD 228/476/3. Improved assembly technique of distribution housing bolts.

**Applicability – Compliance – Requirement**

Service Bulletin 61–387 refers. Compliance required not later than 31 December 1976. To be embodied concurrently with 30236.