

RESTRICTED

AP 113

GROUP 103

AERO - ENGINE EQUIPMENT

RESTRICTED

LISTS OF SUB-GROUP LETTERS & CLASS NUMBERS

AERO-ENGINE EQUIPMENT - GENERAL PUBLICATIONS

103A

FUEL-SYSTEM COMPONENTS

103B

| | | | |
|-----|--|---|-------------------|
| -01 | Fuel pumps, engine-driven | | |
| -02 | Combined control units |) | |
| -03 | Fuel metering units |) | |
| -04 | Acceleration control units |) | |
| -05 | Barostatic control units |) | |
| -07 | Ratio control units |) | FOR GAS TURBINE |
| -09 | Pressurising valves |) | ENGINES |
| -10 | By-pass valves |) | |
| -11 | Governors |) | |
| -12 | Flow distributors |) | |
| -14 | Burners and atomisers |) | |
| -15 | Filters |) | |
| -16 | Pressure ratio switches |) | |
| -17 | Dump valves |) | |
| -18 | Drain fuel collectors |) | FOR RECIPROCATING |
| -19 | Float chamber carburettors |) | ENGINES |
| -20 | Bulk (single point) injection carburettors (and associated units) |) | |

ACCESSORY-DRIVE EQUIPMENT

103C

| | |
|-----|--|
| -01 | Mechanical accessory drive equipment |
| -02 | Air-driven accessory drive equipment |
| -03 | Propeller brake units and brake units for autogyro-rotor planes and helicopter-rotor planes |

STARTING SYSTEM EQUIPMENT (NON-ELECTRICAL)

103D

| | |
|-----|---|
| -01 | Cartridge starters (for cartridges refer to 110N) |
| -02 | Turbo-starters (Pneumatically Driven unit) |
| -03 | Gas Turbine starters |
| -05 | Starting systems test equipment |

CONSTANT-SPEED-DRIVE EQUIPMENT

103E

| | |
|-----|----------------------------|
| -01 | Constant speed drive units |
| -03 | |

EXHAUST AND THRUST REVERSER COMPONENTS

103F

| | |
|-----|--|
| -01 | Afterburner/Reheat components other than fuel system |
| -02 | Thrust reverser components |

SUB-GROUP 103B

FUEL SYSTEM COMPONENTS

| AP CODE No | FAP CODE No | TITLE | DATE |
|------------|-------------|---|--------|
| 103B | | | |
| -0101-16A7 | | Fuel Pump Plessey Type BP34 Mk 8 | Aug 72 |
| -0102-1 | | Fuel Pump Lucas Type MGBB122 | Jan 66 |
| -0103-17 | | Fuel Pump Type BP230/6 Mk 5. | Sep 68 |
| -0104-1 | | Fuel Pump Lucas Type MGBB135 | - |
| -0105-1 | | Fuel Pump Lucas Type MGBB140 | - |
| -0106-17 | | Low Pressure Fuel Backing Pump Plessey Type BP200 Mk 3 | - |
| -0107-1 | | Fuel Pump Plessey Types F043 & F060 | - |
| | -0108-1 | FSP Drive and Boost Pump Pt No 289 0250. | Nov 82 |
| | -0108-3 | KHD FSP Drive and Boost Pump | Sep 82 |
| -0108-6 | | FSP Drive & Boost Pump Klockner-Humboldt - Deutz Pt No 289-0250 | Nov 82 |
| | -0109-3 | KHD Fuel pump M3.4 | Dec 82 |
| -0111-1 | | Fuel Pump Plessey Type F1 Mk 3M | Oct 79 |
| -0115-1 | | LP Fuel Pump BP250 Mk 5 | Nov 72 |
| -0116-1 | | HP Fuel Pump Lucas MGC102 | Nov 72 |
| -0117-16AC | | Engine-Driven Fuel Pump De Havilland Type DHAC. | Apr 74 |
| -0202-1 | | Combined Control Units Chassis Mounted Fuel System Lucas Type CMF8 Series | - |
| -0203-3A | | Fuel Flow Control Unit GFS 202 Series | Aug 79 |
| -0203-6 | | Fuel flow control unit GFS 202 & 204 Series. | May 84 |
| | -0205-3 | Lucas Aerospace Control Unit, Fuel, Engine Pt No PCU 200 | May 80 |
| | -0205-6 | Lucas Aerospace Ltd Engine Fuel Control Unit PCU 200 | Jul 80 |
| | -0205-7 | Lucas Aerospace Ltd Engine Fuel Control Unit PCU 200 | Aug 80 |
| -0206-1 | | Engine Fuel Control Unit FCU 109, 113 & 118. | Oct 78 |
| -0207-1 | | After Burner Fuel Control Unit DRH953 Mk 10 | Nov 73 |
| -0208-1 | | Part Throttle Afterburning Sector Valve DSV 1130 Mks 1 & 2 | May 77 |
| -0209-1 | | Afterburner Fuel Control Unit DRH1128 Mk 4. | - |
| | -0210-3 | Dowty Fuel Systems Ltd Afterburner Fuel Control Unit Pt No DRH1290 Mk 1 | May 80 |
| | -0210-6 | Dowty Fuel Systems Ltd Afterburner Fuel Control Unit DRH 1290 Mk 1 | Aug 80 |
| | -0210-7 | Dowty Fuel Systems Ltd Afterburner Fuel Control Unit DRH 1290 Mk 1 | Feb 80 |
| -0211-136 | | Control Unit Starting Turbomeca Pt No 0-077-98-547-0. | Jan 84 |
| -0301-16C | | Fuel Metering Unit Dowty Type Eng 671 Mk 3. | - |
| -0304-17 | | Fuel Metering Unit Dowty Type Eng 640 Series | 1967 |
| -0305-16 | | Fuel Metering Pump, Plessey Type FM5 Mk 7H. | Mar 72 |
| -0306-1 | | Sub-Idling Fuel Control Unit STS100 | Nov 72 |
| -0401-1 | | Afterburner Arming Pressure Switch DSS1197 Mk 1. | 1974 |
| -0501-1 | | Barometric Flow Control Unit Type VU23361 | - |
| -0701-1 | | Air/Fuel Ratio Control Lucas Type AFC116 | - |
| -0702-1 | | Air/Fuel Ratio Control Lucas Type AFC116 | - |
| -0901-1 | | Pressure Increasing Valve Type V31040 | - |

AP 100Z-0101 AL63
SUB-GROUP 103B

FUEL SYSTEM COMPONENTS

| AP CODE No | FAP CODE No | TITLE | DATE |
|------------|-------------|---|--------|
| 103B-cont | | | |
| -1001-3A6 | -1002-3 | Engine-Starter Fuel By-Pass Valve Pt No 71919. | 1968 |
| | | Plessey Aerospace Ltd Fuel Recirculation Valve Pt No FVR 200 Mk 1 | May 80 |
| -1101-1 | | Low Pressure Shaft Governor Lucas Type GVD106 | Jan 66 |
| -1102-36 | | Free Power Turbine Governor FTG 202 series | May 84 |
| -1103-136 | | Protective Control Unit 700-1-19338 series | Sep 84 |
| -1104-136 | | Protective Control Unit 7001-1 22680 Series | Nov 82 |
| -1201-1 | | Flow Distributor Lucas Type FD31/35U | - |
| -1202-1 | | Afterburner Distribution & Purge Valve DVG954 Mk 4 | Nov 72 |
| -1203-13A | | Distributor Unit Microturbo Type 007-23A | Nov 74 |
| -1204-1 | | Afterburner Distribution & Purge Valve DVG1129 Mk 1 | - |
| -1205-123A | | Distribution Unit Microturbo Pt No 0472300 | Apr 78 |
| -1401-1 | | Burner Type VU17493. | - |
| -1402-1 | | Starting Atomizer Type V22008 | - |
| -1403-1 | | Burner Lucas Type CSH85, 111, 114, 130. | - |
| -1405-1 | | Torch Igniter Fuel Nozzle LN 23825. | Apr 78 |
| -1501-1 | | Low Pressure Fuel Type V31506 | - |
| -1502-1 | | LP Fuel Filter Element MFFA582/2 | May 77 |
| -1503-1 | | After Burner LP Fuel Filter Element D2580 | Nov 72 |
| -1504-1 | | Main Fuel Spray Nozzle Filter Element D2591 | Nov 72 |
| -1601-1 | | Pressure Ratio Switch Lucas Type PRS103 | - |
| -1602-1 | | LP Fuel Absolute Pressure Switch 1301/KPS/CP/2/35. | Nov 72 |
| -1603-1 | | LP Fuel Absolute Pressure Switch 1304/KPS/CP/2/35 & 1304/KPS/FA/2/35 | Sep 73 |
| -1701-1 | | Dump Valve Lucas Type DV101 | - |
| | -1702-3 | Lucas Aerospace Valve Purge Engine Fuel Pt No MDV 200 | May 80 |
| | -1702-6 | Lucas Aerospace Ltd Valve Purge, Engine Fuel MDV 200 | Apr 80 |
| | -1702-7 | Lucas Aerospace Ltd Valve Purge Engine Fuel MDV 200 | Jun 81 |
| | -1703-3 | Dowty Fuel Systems Ltd Shut-Off/Dump Priming Valve Pt No DSD 1294 Mk 1 | Jun 80 |
| | -1703-6 | Dowty Fuel Systems Ltd Priming, Shut-Off & Dump Valve Unit DSD 1294 Mk 1 | Mar 80 |
| | -1703-7 | Dowty Fuel Systems Ltd Priming, Shut-off & Dump Valve Unit DSD 1294 Mk 1 | Feb 80 |
| -1801-136 | | Drains Tank BAC Type 110037 Sht 25 & BAC Type 115037 Sht 13 | Sep 83 |
| -1900-1B | | Float Chamber Carburettors, Hobson-Jets & Float Assemblies | 1972 |
| -1901-6 | | Float Chamber Carburettor Hobson Type A148PM | Mar 72 |
| -2001-1 | | Fuel Injection & Metering Pumps for Piston Engines SV Types 6400/775, 6400/788, 6400/803, 6400/805, 6400/807 | - |
| -2002-16A | | Hobson Fuel Metering Equipment for Alvis Leonides Engines | - |
| -2003-1 | | Injection Carburettors Hobson Types B1/BH 11, 13/1 & 17 | Oct 72 |

SUB-GROUP 103C

ACCESSORY DRIVE EQUIPMENT

| AP CODE No | FAP CODE No | TITLE | DATE |
|------------|-------------|---|------------------|
| 103C | | | |
| -0101-2 | | Belfast C Mk 1 | 1968 |
| -0101-3A | | Dowty Rotol for Belfast C Mk 1 | — |
| -0102-16AC | | Andover C Mk 1 | — |
| -0102-2 | | Andover C Mk 1 | 1968 |
| -0102-3A | | Dowty Rotol Accessory Drive Equipment for Andover C Mk 1 | Jul 78 |
| -0103-16C | | Accessory Reduction Gear for Pembroke and Sea Prince A/C Dowty Rotol Type ARG 1/8E | Dec 75 |
| -0104-16C | | Accessory Drive Equipment for Varsity T Mk 1 Aircraft Dowty Rotol Type 135 & 363 | — |
| -0106-16AC | | Dowty Rotol for Argosy | — |
| -0107-16 | | Dowty Rotol for Canberra | — |
| -0109-16 | | Dowty Rotol for Jet Provost | — |
| -0110-16 | | Accessory Drive Equipment (Dowty Rotol) for Gannet Aircraft | — |
| -0111-16 | | Dowty Rotol for Hunter | — |
| -0111-3A | | Gearbox & Accessory Drive Equipment for Hunter Aircraft | Nov 79 |
| -0112-16AC | | Dowty Rotol for Shackleton | — |
| -0112-3A | | Dowty Rotol Accessory Drive Equipment for Shackleton Aircraft | — |
| -0113-16 | | Dowty Rotol for Comet Mk 2 | — |
| -0114-16 | | Self-changing Gears Ltd Accessory Drives | 1974 |
| -0115-16C | | Rotol Accessory Gearboxes & Drive (Lightning) | Oct 74 |
| -0115-3A | | Dowty Rotol Accessory Drive Equipment for Lightning Aircraft | — |
| | -0117-1 | Accessories Drive Gearbox LH/RH Klockner Humboldt Deutz Pt No 2890500, 2890501 | Jan 83 |
| -0117-6 | | Gear Box Accessories Drive LH & RH Klockner - Humboldt Deutz Pt No 2873501 (LH) Pt No 2873500 (RH) | Jul 84 Jul 84 |
| | -0118-1 | Flexible Shaft Lucas Aerospace Ltd Type ZA25720 EXP5 | Apr 83 |
| | -0118-3 | Lucas Shaft Flexible | Sep 80 |
| -0118-6 | | Flexible Shaft Lucas Aerospace Ltd Type ZA 25720 Exp 5 | May 83 |
| -0119-6 | | Hydraulic Pump Drive LH/RH Klockner - Humboldt - Deutz Pt No 2873655 (LH) & 2873654 (RH) | Nov 83 |
| | -0119-3 | KHD Drive Hydraulic Pump LH/RH | Jun 81 |
| | -0120-1 | Cross Drive Shaft Klockner Humboldt Pt No 287 7970 | Feb 82 |
| | -0120-3 | KHD Shaft Cross Drive | Sep 82 |
| -0121-3A | | Dowty Rotol Accessory Drive Equipment for Andover CC Mk 2 | Dec 78 |
| -0201-16A | | Turbine Gearbox Alternator Drive Godfrey Type TGA-30Mk 6 | — |
| -0202-13A | | Actuator Plessey Type AMSU 306 Mk 2 | Jun 74 |
| -0202-2 | | Actuator Plessey Type AMSU 306 Mk 2 | Oct 74 |
| -0301-1 | | Propeller Brake Unit Type AH52420 | Jan 66 |
| -0302-1 | | Propeller Brake Unit Type AH52252 | Apr 66 |
| -0304-13A6 | | Rotor Brake | — |
| -0305-1 | | Rotor Brake Unit Dunlop Pt No AH51704 | Aug 74 |
| -0307-13A6 | | Rotor Brake Assembly Pt No 2-1448 BF Goodrich Co Pt No 414HS020-2 Boeing Vertol Co | Mar 82 |

AP 100Z-0101 AL63
SUB-GROUP 103D

STARTING SYSTEM EQUIPMENT

| AP CODE No | TITLE | DATE |
|-------------|--|--------|
| 103D | | |
| -0101-12 | Starting Systems, Plessey Type S | Aug 82 |
| -0101-3A | Cartridge Starters Plessey Type S | - |
| -0101-5F | Plessey Engine Starting System Type S | Aug 79 |
| -0102-3A | Engine Starting System Rotax Type CT1302 | - |
| -0103-3A | Engine Starting System Rotax Type CT1303 | - |
| -0106-13A7 | Starter, Single Breech Turbo, Lucas Aerospace Type SBS720 Mk 5 for Avon Engine Canberra Aircraft | Nov 78 |
| -0106-5F | Turbo Starter Type SBS 720 | Feb 78 |
| -0201-16A | Starting System CT1305 Norval. | - |
| -0203-3A | AEI Turbo Starter Type TBS720 Mk 2 | Oct 65 |
| -0203-13A67 | Turbo Starter Lucas Aerospace Type TBS720 Mk 2 | Nov 76 |
| -0203-D1 | Triple Breech Turbo-Starter Type TBS720 Mk 2 | - |
| -0204-16 | Pneumatic Starter Rotax Pt No CT1012. | - |
| -0205-13A6 | Pneumatic Starter Lucas Aerospace Type CT1039 | Nov 76 |
| -0208-16A | Engine Starting Systems Plessey Type 1PN | Mar 78 |
| -0208-2 | Engine Starting System Plessey Type IPN | Aug 78 |
| -0208-3 | Engine Starting Systems Plessey Type 1PN | Mar 82 |
| -0212-13A | Air Starter Micro Turbo Pt No 007-02C & 007-02-11 | Aug 83 |
| -0213-167 | Starter Pneumatic Lucas Aerospace Type CT0804/2 for Gyron Junior Engine Buccaneer Aircraft. | Jun 72 |
| -0215-17 | Starter Pneumatic Lucas Aerospace Type CT1009 for Orpheus Engine, Gnat Trainer Aircraft | Jul 72 |
| -0216-167 | Starter Pneumatic Lucas Aerospace Type CT1021/1 for Spey Engine Buccaneer Aircraft. | Jun 72 |
| -0217-123A7 | Engine Starting System, Lucas Aerospace Type CT1302 for Conway Engine Victor Aircraft. | Jan 83 |
| -0218-17 | Engine Starting System, Lucas Aerospace Type CT1303 for Olympus Engine Vulcan Aircraft | Jun 72 |
| -0219-123 | Turbine Starter Microturbo Pt No 0470200 & splined coupling shaft Pt No 464-001 | Dec 81 |
| -0301-16A7 | Gas Turbine Starter, Plessey Solent Mk 101. | - |
| -0301-2A | Gas Turbine Starter, Plessey Solent Mk 101. | Mar 80 |
| -0301-2B | Gas Turbine Starter, Plessey Solent Mk 101. | Mar 80 |
| -0301-3 | Gas Turbine Starter, Plessey Solent Mk 101. | Mar 74 |
| -0302-2 | Gas Turbine Starter Auxiliary Power Unit Rotax Type CP2023 | - |
| -0302-16A | Gas Turbine Starter/Auxiliary Power Unit Lucas Aerospace Type CT2023/1 | - |
| -0303-3A | Gas Turbine Starter/APU System Lucas Aerospace Type CT2103 | - |
| -0304-1 | Gas Turbine Starter/Auxiliary Power Unit Lucas Aerospace Type CT2031/1 | Mar 73 |
| -0304-2 | Gas Turbine Starter Lucas Aerospace Type CR201-Mk 2 | Nov 77 |
| -0304-3 | Gas Turbine Starter/Auxiliary Power Unit Lucas Aerospace Type CR201 Mk 2 & Type CR202 | Oct 81 |
| -0304-5F | Harrier GTS/APU Mk 2 Type CR 201 | Jul 80 |
| -0304-6 | Gas Turbine Starter/Auxiliary Power Unit Lucas Aerospace Type CR 201 Mk 2 & Type CR 202 | Jan 80 |
| -0305-13A | Air Producer Microturbo Type 007-01E, 007-01F, 007-01-01 & 007-01-11. | - |
| -0306-123A | Air Producer Microturbo Pt No 0470100 | Jul 78 |
| -0501-13A | Test Bench Microturbo Type BAHK-3 | Jul 77 |
| -0502-13A | Test Set Microturbo Type BT007B | May 76 |
| -0503-13A | Test Bench Microturbo Type PESD 07A. | Feb 77 |
| -0504-13A | Test Set Microturbo Mk 2 Microturbo Pt No BTO 472. | Apr 78 |
| -0505-123 | Test Bench Microturbo Pt No BE1-2 | Nov 82 |
| -0506-1236 | Test Bench Microturbo Pt No BESD047 | Mar 82 |

SUB-GROUP 103E

CONSTANT - SPEED - DRIVE EQUIPMENT

| AP CODE No | TITLE | DATE |
|------------|---|--------|
| 103E | | |
| -0100-2A | Hydraulic Constant Speed Drives-Lucas Part 1 | Aug 84 |
| -0100-2B | Hydraulic Constant Speed Drives Lucas Part 2 | Aug 84 |
| -0101-13 | Constant Speed Drive Unit, Lucas Aerospace Type AE 8010 | Dec 83 |
| -0101-6 | Constant Speed Drive Unit Lucas Aerospace Type AE 8010 | Jan 84 |
| -0102-13 | Constant Speed Drive Unit Lucas Type AE8052 Mks 1 & 3 | Dec 83 |
| -0105-13 | Constant Speed Drive Unit Lucas Type AE 8053 Mk 1 | Dec 83 |
| -0106-16A | Constant Speed Drive System Components English Electric. | - |
| -0106-3 | Hydraulic Constant Speed AC Generator Drive (AE 8012/2 Mk1) for Buccaneer S Mk2 | Dec 82 |
| -0106-6C | Constant Speed Drive System Components English Electric. | - |
| -0107-123 | Integrated Drive Generator Lucas Aerospace Type AE8914 Mk 2 | Jan 83 |
| | | |
| -03-3A | Godfrey Turbine Gearbox Type TG30 Mk 6 | 1987 |

AP 100Z-0101 AL63
SUB-GROUP 103F

EXHAUST AND THRUST REVERSER COMPONENTS

| AP CODE No | FAP CODE No | TITLE | DATE |
|------------|-------------|--|--------|
| 103F | | | |
| | -0101-3 | Lucas Aerospace Ltd Exhaust Nozzle Control Unit Pt No CHA 729-5001. | Apr 80 |
| | -0101-6 | Lucas Aerospace Ltd Exhaust Nozzle Control Unit CHA 729-5001 | Sep 81 |
| | -0102-3 | Lucas Aerospace Ltd Exhaust Nozzle Ballscrew Actuator Pt No CHA 730-5001 | Apr 80 |
| | -0102-6 | Lucas Aerospace Ltd Exhaust Nozzle Ballscrew Actuator CHA 730-5001. | Dec 80 |
| | -0103-3 | Lucas Aerospace Gearbox Bevel Exhaust Nozzle Pt No CHA 732-158 | - |
| | -0103-6 | Lucas Aerospace Ltd Exhaust Nozzle, Bever Gearbox CHA 732-5001 | Mar 81 |
| | -0201-3 | Lucas Aerospace Ltd Thrust Reverser Control Unit Pt No CHA 726-5001 | Apr 80 |
| | -0201-6 | Lucas Aerospace Ltd Thrust Reverser Control Unit CHA 726-5001 | Feb 82 |
| | -0202-3 | Lucas Aerospace Ltd Thrust Reverser Ballscrew Actuator Pt No CHA 727-5001 | May 80 |
| | -0202-6 | Lucas Aerospace Ltd Thrust Reverser Ballscrew Actuator Pt No CHA 727-5001 | Nov 80 |
| | -0202-7 | Lucas Aerospace Ltd Thrust Reverser Ballscrew Actuator Pt No CHA 727-5001 | Nov 80 |
| | -0203-3 | Lucas Aerospace Ltd Thrust Reverser Bevel Gearbox Pt No CHA 731-5001 | Apr 80 |
| | -0203-6 | Lucas Aerospace Ltd Thrust Reverser Bevel Gearbox CHA 731-5001 | Dec 82 |

SUB-GROUP 103J

WATER - ALCOHOL INJECTION-SYSTEM ENGINE COMPONENTS

| AP CODE No | TITLE | DATE |
|------------|---|--------|
| 103J | | |
| -0301-1 | Electro-Magnetic Valve Teddington Type FGB/A/11. | Jun 73 |

AP 100Z-0101 AL63
SUB-GROUP 103K

THERMAL INSULATION EQUIPMENT

| AP CODE No | TITLE | DATE |
|------------|--|--------|
| 103K | | |
| -0100-6 | Heat Insulation Blankets | Sep 73 |
| -0101-1 | After Burner Thermal Insulation Blanket IB89505 Mk 1 Insulation Pad IBN88934 Mk 1. | Nov 72 |

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