

## Service Bulletin Register (Recorders, Air Data, Ice Detection)

Updated: 01 December 2022

Part Number	Product Description	Publication Number	Revision Level	Comments	SB Compliance
CT/D7100	Instrument - Tape Cassette (Plessey Type PV 748) - Mod 1	SB CT-D7100-31-1	Rev. 0, Sep 24/71	Mod 1. To ensure counter is locked in its correct position.	Recommended
CT/D7100	Instrument - Tape Cassette (Plessey Type PV 748) - Mod 2	SB CT-D7100-31-2	Rev. 0, Jun 21/72	Mod 2. To improve reliability of EOT detection.	Recommended
CT/D7100	Instrument - Tape Cassette (Plessey Type PV 748) - Mod 3	SB CT-D7100-31-3	Rev. 1, Apr 23/76	Mod 3. Alternative to obsolete counter assembly.	Information
D10922	Air Data Unit Test Set - Increased Test Facilities	SB D10922	Rev. 0, Jun 1981	Mod 1. Allow "Servo Follow Up" monitoring to be carried out when RAMP switch is ON.	Recommended
D17666	Quick Access Recorder - Addition of Back-up battery for Dynamic Memory	SB D17666-31-2	Rev. 2, Jul 17/87	Addition of battery backup for dynamic memory & changes in software	Recommended
D17666	Quick Access Recorder - Modified Tape Guide Rails SA85204	SB D17666-31-9	Rev. 0, Mar 01/04	Testing & modifying tape guide rails on SA85204	Optional
D17666	Quick Access Recorder - Obsolete Phototransistors (CH7487)	SB D17666-31-8	Rev. 0, Mar 16/00	Replacement of obsolete phototransistors	Unavoidable
D17666	Quick Access Recorder - Higher Resolution Heads	SB D17666-31-7	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended
D17666	Quick Access Recorder - PEC, Drive & Control Parts	SB D17666-31-6	Rev. 0, Sep 22/98	Modify Drive & Control PEC SA85220/1 to enable replacement of resistors	Recommended
D17666	Quick Access Recorder - Replacement Capacitors C1, C2 & C3	SB D17666-31-5	Rev. 0, May 22/98	PSU mod to enable replacement of capacitor C3	Recommended

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D17666	Quick Access Recorder - Replacing a NMOS DMA Device with a CMOS DMA Device (CPU PCB)	SB D17666-31-3	Rev. 1, Feb 23/93	Reduce system clock rise/fall time when replacing NMOS DMA device with CMOS DMA	Optional
D17666	Quick Access Recorder - Removal of Software Eject Facility	SB D17666-31-1	Rev. 0, Feb 25/83	Removal of software eject facility	Recommended
D17666	Quick Access Recorder - Tape Holes	SB D17666-31-4	Rev. 0, Sep 12/95	Extend tape drive delay	Optional
D3430/4	Acceleration Transducer - Calibration Check	SB D3430/4	Rev. 0, Mar 24/71	Information re transducer calibration period.	Recommended
D3430/4	Accelerometer - Operational improvements	SB D3430/4 (SADAS 32)	Rev. 0, Jul 24/72	Improvement to standard of output signal from transducer.	Recommended
D3430/4	Acceleration Transducer - Output Signal	SB SADAS 32	Rev. 0, Jul 24/72	Improve output signal from transducer.	Recommended
D4524/2	Accelerometer - Operational improvements	SB D4524-31-2	Rev. 0, Oct 31/73	Mod 02. Improvement to standard of output signal from transducer.	Optional
D4524/2	Acceleration Transducer - Operational improvements	SB 4524 (SADAS 33)	Rev. 0, Jul 24/72	Improve standard of output signal	Recommended
D4525/2	Acceleration Transducer	SB D4525-31-1	Rev. 0, Dec 29/72	Information re transducer calibration period.	Recommended
D50046	Quick Access Recorder - Replacing a NMOS DMA Device with a CMOS DMA Device (CPU PCB)	SB D50046-31-2	Rev. 0, Oct 04/95	Reduce system clock rise/fall time when replacing NMOS DMA device with CMOS DMA	Optional
D50046	Quick Access Recorder - Replacement Capacitors C1, C2 & C3	SB D50046-31-3	Rev. 0, Jul 03/98	PSU mod to enable replacement of capacitor C3	Recommended
D50046	Quick Access Recorder - Higher Resloution Heads	SB D50046-31-4	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended

### Registered Company Details

Penny & Giles Aerospace Ltd. is an agent of Curtiss-Wright Controls (UK) Ltd.  
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D50046	Quick Access Recorder - Tape Holes	SB D50046-31-1	Rev. 0, Sep 13/95	Extend tape drive delay	Optional
D50759	Quick Access Recorder - Higher Resloution Heads	SB D50759-31-9	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended
D50759	Quick Access Recorder - Correction of Tape Low Signal	SB D50759-31-1	Rev. 0, Jun 27/86	Mod 1. Correction of Tape Low signal	Recommended
D50759	Quick Access Recorder - Operating Software - Mod 2	SB D50759-31-2	Rev. 0, Mar 16/92	Software issue D. Improvement to operating software.	Optional
D50759	Quick Access Recorder - Replacing a NMOS DMA Device with a CMOS DMA Device (CPU PCB)	SB D50759-31-3	Rev. 1, Feb 23/93	Reduce system clock rise/fall time when replacing NMOS DMA device with CMOS DMA	Optional
D50759	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D50759-31-4	Rev. 0, May 24/93	Harvard Biphase line noise rejection	Optional
D50759	Quick Access Recorder - Tape Holes	SB D50759-31-5	Rev. 0, Sep 13/95	Extend tape drive delay	Optional
D50759	Quick Access Recorder - RS422 Interface Devices	SB D50759-31-6	Rev. 0, Sep 27/95	Improved transient protection for RS422 interface ICs	Optional
D50759	Quick Access Recorder - PEC, Drive & Control Parts	SB D50759-31-8	Rev. 0, Sep 22/98	Modify Drive & Control PEC SA85220/1 to enable replacement of resistors	Recommended
D50759	Quick Access Recorder - Replacement Capacitors C1, C2 & C3	SB D50759-31-7	Rev. 0, Jul 03/98	PSU mod to enable replacement of capacitor C3	Recommended
D50761	Quick Access Recorder - RS422 Interface Devices	SB D50761-31-7	Rev. 0, Sep 27/95	Improved transient protection for RS422 interface ICs	Optional
D50761	Quick Access Recorder - PEC, Drive & Control Parts	SB D50761-31-9	Rev. 0, Sep 22/98	Mod Drive & Control PEC SA85220/2 or SA85220/3 to enable replacement of resistors	Recommended

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D50761	Quick Access Recorder - Replacement Capacitors C1, C2 & C3	SB D50761-31-8	Rev. 0, Jul 03/98	PSU mod to enable replacement of capacitor C3	Recommended
D50761	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D50761-31-4	Rev. 0, May 24/93	Harvard Biphase line noise rejection	Optional
D50761	Quick Access Recorder - Tape Holes	SB D50761-31-6	Rev. 0, Sep 13/95	Extend tape drive delay	Optional
D50761	Quick Access Recorder - Operating Software	SB D50761-31-5	Rev. 0, May 27/93	Improvement to operating software. Identified as software letter D.	Optional
D50761	Quick Access Recorder - Permit to use 600ft Tape	SB D50761-31-2	Rev. 3, Feb 23/93	Upgrade to type D50761-1-01	BA
D50761	Quick Access Recorder - Modified Tape Guide Rails SA85204	SB D50761-31-11	Rev. 0, Mar 01/04	Testing & modifying tape guide rails on SA85204	Optional
D50761	Quick Access Recorder - Higher Resloution Heads	SB D50761-31-10	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended
D50761	Quick Access Recorder - Correction of Tape Low Signal	SB D50761-31-1	Rev. 0, Jun 27/86	Mod 1. Correction of Tape Low signal	Recommended
D50761	Quick Access Recorder - Replacing a NMOS DMA Device with a CMOS DMA Device (CPU PCB)	SB D50761-31-3	Rev. 1, Feb 23/93	Reduce system clock rise/fall time when replacing NMOS DMA device with CMOS DMA	Optional
D50761-1-01	Quick Access Recorder - Operating Software	SB D50761-1-01-31-1	Rev. 1, Jul 01/91	Improvement to operating software. Upgrade to software issue B105884.	On Repair
D50761-1-01	Quick Access Recorder - PEC, Drive & Control Parts	SB D50761-1-01-31-8	Rev. 0, Sep 22/98	Modify Drive & Control PEC SA85220/2 to enable replacement of resistors	Recommended
D50761-1-01	Quick Access Recorder - Higher Resloution Heads	SB D50761-1-01-31-9	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended

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D50761-1-01	Quick Access Recorder - Obsolete Phototransistors (CH7487)	SB D50761-1-01-31-10	Rev. 0, Jun 26/00	Replacement of obsolete phototransistors	Unavoidable
D50761-1-01	Quick Access Recorder - Operating Software	SB D50761-1-01-31-2	Rev. 0, Jul 02/92	Improvement to operating software, identified as 105884 C.	Optional
D50761-1-01	Quick Access Recorder - Replacing a NMOS DMA Device with a CMOS DMA Device (CPU PCB)	SB D50761-1-01-31-3	Rev. 1, Feb 23/93	Reduce system clock rise/fall time when replacing NMOS DMA device with CMOS DMA	Optional
D50761-1-01	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D50761-1-01-31-4	Rev. 0, May 24/93	Harvard Biphase line noise rejection	Optional
D50761-1-01	Quick Access Recorder - RS422 Interface Devices	SB D50761-1-01-31-5	Rev. 0, Sep 15/95	Improved transient protection for RS422 interface ICs	Optional
D50761-1-01	Quick Access Recorder - Tape Holes	SB D50761-1-01-31-6	Rev. 0, Sep 12/95	Extend tape drive delay	Optional
D50761-1-01	Quick Access Recorder - Replacement Capacitors C1, C2 & C3	SB D50761-1-01-31-7	Rev. 0, Jul 03/98	PSU mod to enable replacement of capacitor C3	Recommended
D50766	Quick Access Recorder - Replacement Capacitors C1, C2 & C3	SB D50766-31-5	Rev. 0, Jul 03/98	PSU mod to enable replacement of capacitor C3	Recommended
D50766	Quick Access Recorder - RS422 Interface Devices	SB D50766-31-4	Rev. 0, Sep 15/95	Improved transient protection for RS422 interface ICs	Optional
D50766	Quick Access Recorder - Replacing a NMOS DMA Device with a CMOS DMA Device (CPU PCB)	SB D50766-31-1	Rev. 1, Feb 23/93	Reduce system clock rise/fall time when replacing NMOS DMA device with CMOS DMA	Optional
D50766	Quick Access Recorder - Higher Resloution Heads	SB D50766-31-7	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended

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D50766	Quick Access Recorder - PEC, Drive & Control Parts	SB D50766-31-6	Rev. 0, Sep 22/98	Mod Drive & Control PEC SA85220/3 to enable replacement of resistors	Recommended
D50766	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D50766-31-2	Rev. 0, May 24/93	Harvard Biphase line noise rejection	Optional
D50766	Quick Access Recorder - Tape Holes	SB D50766-31-3	Rev. 0, Sep 13/95	Extend tape drive delay	Optional
D51092	Quick Access Recorder - Replacement of Capacitor C3	SB D51092-31-5	Rev. 0, Jul 03/98	PSU mod to enable replacement of capacitor C3	Recommended
D51092	Quick Access Recorder - Higher Resolution Heads	SB D51092-31-6	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Optional
D51092	Quick Access Recorder - Replacing a NMOS DMA Device with a CMOS DMA Device (CPU PCB)	SB D51092-31-1	Rev. 1, Feb 23/93	Reduce system clock rise/fall time when replacing NMOS DMA device with CMOS DMA	Optional
D51092	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D51092-31-2	Rev. 0, May 24/93	Harvard Biphase line noise rejection	Optional
D51092	Quick Access Recorder - Tape Holes	SB D51092-31-3	Rev. 0, Sep 13/95	Extend tape drive delay	Optional
D51092	Quick Access Recorder - RS422 Interface Devices	SB D51092-31-4	Rev. 0, Sep 27/95	Improved transient protection for RS422 interface ICs	Optional
D512615-101 & D51615-102	Multi-Purpose Flight Recorder - ULB mounting brack change - Mod 3/Mod 4	SB D51615-31-13	Rev. 0, Feb 17/14	Locator beacon mounting bracket replaced with new part number. Software file path expanded for improved utilization of flash memory timing characteristics.	Optional
D51434 & D51434-1	Quick Access Recorder - Spikes on the Data Lines	SB D51434-31-9	Rev. 0, Oct 04/95	Fit capacitor/resistor network to each data line, to slow down rise/fall times	Optional

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D51434 & D51434-1	Quick Access Recorder - RS422 Interface Devices	SB D51434-31-8	Rev. 0, Oct 03/95	Improved transient protection for RS422 interface ICs	Optional
D51434 & D51434-1	Quick Access Recorder - Modified Tape Guide Rails SA85204	SB D51434-31-13	Rev. 0, Mar 01/04	Testing & modifying tape guide rails on SA85204	Optional
D51434 & D51434-1	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D51434-31-6	Rev. 0, May 20/93	Harvard Biphase line noise rejection	Optional
D51434 & D51434-1	Quick Access Recorder - Operating Software - Mod 2	SB D51434-31-2	Rev. 0, Jan 17/91	Improvement to operating software, identified as letter C.	On Repair
D51434 & D51434-1	Quick Access Recorder - Operating Software	SB D51434-31-5	Rev. 3, May 24/93	Software improvement to prevent data corruption problems & allow 1020ft tape operation. Identified as software issue letter D.	Optional
D51434 & D51434-1	Quick Access Recorder - Tape Holes	SB D51434-31-7	Rev. 0, Aug 03/95	Extend tape drive delay	Optional
D51434 & D51434-1	Quick Access Recorder - Permit to record at 512WPS	SB D51434-31-3	Rev. 2, Apr 29/93	Upgrade to type D51442 & D51442-1. Applies to Teledyne/BA data compression system	BA
D51434 & D51434-1	Quick Access Recorder - Higher Resloution Heads	SB D51434-31-11	Rev. 2, May 03/04	Circuit changes required when fitting higher resolution heads	Recommended
D51434 & D51434-1	Quick Access Recorder - Software Upgrade	SB D51434-31-10	Rev. 1, Jan 29/97	Mod Drive & Control PEC SA85220/2 or SA85220/3 to enable replacement of resistors	Recommended
D51434 & D51434-1	Quick Access Recorder - Obsolete Phototransistors (CH7487)	SB D51434-31-12	Rev. Mar 16/00	Replacement of obsolete phototransistors	Unavoidable
D51434 & D51434-1	Quick Access Recorder - Improvement tom Operating Software	SB D51434-31-1	Rev. 0, Dec 1/88	Improvement to operating software. Identified as REF SOFTWARE B105725.	Optional
D51434 & D51434-1	Quick Access Recorder - Permit to use 600ft Tape	SB D51434-31-4	Rev. 1, Jan 14/93	Upgrade to enable use of 600ft tape cartridges. P/N change to D51434-1.	Optional

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D51438	Quick Access Recorder - RS422 Interface Devices	SB D51438-31-5	Rev. 0, Oct 03/95	Improved transient protection for RS422 interface ICs	Optional
D51438	Quick Access Recorder - Improved Software - Mod 1	SB D51438-31-1	Rev. 0, Feb 20/91	Improvement to operating software, identified as software issue letter C.	On Repair
D51438	Quick Access Recorder - Improved Software - Mod 1	SB D51438-31-2	Rev. 2, May 24/93	Improvement to operating software, identified as software issue letter D.	Optional
D51438	Quick Access Recorder - Tape Holes	SB D51438-31-4	Rev. 0, Sep 13/95	Extend tape drive delay	Optional
D51438	Quick Access Recorder - Spikes on the Data Lines	SB D51438-31-6	Rev. 0, Oct 17/95	Fit capacitor/resistor network to each data line, to slow down rise/fall times	Optional
D51438	Quick Access Recorder - PEC, Drive & Control Parts	SB D51438-31-7	Rev. 0, Sep 22/98	Mod Drive & Control PEC SA85220/2 or SA85220/3 to enable replacement of resistors	Recommended
D51438	Quick Access Recorder - Higher Resoloution Heads	SB D51438-31-8	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended
D51438	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D51438-31-3	Rev. 0, May 24/93	Harvard Biphase line noise rejection	Optional
D51439	Quick Access Recorder - Tape Holes	SB D51439-31-3	Rev. 0, Sep 13/95	Extend tape drive delay	Optional
D51439	Quick Access Recorder - Improved Software - Mod 1	SB D51439-31-1	Rev. 0, Apr 28/93	Improvement to operating software. Identified as software issue letter C.	Optional
D51439	Quick Access Recorder - PEC, Drive & Control Parts	SB D51439-31-6	Rev. 0, Sep 22/98	Mod Drive & Control PEC SA85220/2 to enable replacement of resistors	Recommended
D51439	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D51439-31-2	Rev. 0, May 24/93	Harvard Biphase line noise rejection	Optional
D51439	Quick Access Recorder - Spikes on the Data Lines	SB D51439-31-5	Rev. 0, Oct 04/95	Fit capacitor/resistor network to each data line, to slow down rise/fall times	Optional

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D51439	Quick Access Recorder - Higher Resloution Heads	SB D51439-31-7	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended
D51439	Quick Access Recorder - RS422 Interface Devices	SB D51439-31-4	Rev. 0, Oct 03/95	Improved transient protection for RS422 interface ICs	Optional
D51440	Quick Access Recorder - RS422 Interface Devices	SB D51440-31-4	Rev. 0, Oct 03/95	Improved transient protection for RS422 interface ICs	Optional
D51440	Quick Access Recorder - Higher Resloution Heads	SB D51440-31-7	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended
D51440	Quick Access Recorder - Tape Holes	SB D51440-31-3	Rev. 0, Sep 13/95	Extend tape drive delay	Optional
D51440	Quick Access Recorder - PEC, Drive & Control Parts	SB D51440-31-6	Rev. 0, Sep 22/98	Mod Drive & Control PEC SA85220/2 to enable replacement of resistors	Recommended
D51440	Quick Access Recorder - Improved Software - Mod 1	SB D51440-31-1	Rev. 0, Apr 28/93	Improvement to operating software. Identified as software letter C.	Optional
D51440	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D51440-31-2	Rev. 0, May 24/93	Harvard Biphase line noise rejection	Optional
D51440	Quick Access Recorder - Spikes on the Data Lines	SB D51440-31-5	Rev. 0, Oct 04/95	Fit capacitor/resistor network to each data line, to slow down rise/fall times	Optional
D51442 & D51442-1	Quick Access Recorder - PEC, Drive & Control Parts	SB D51442-31-7	Rev. 0, Sep 22/98	Mod Drive & Control PEC SA85220/2 or SA85220/3 to enable replacement of resistors	Recommended
D51442 & D51442-1	Quick Access Recorder - Spikes on Data Lines	SB D51442-31-6	Rev. 0, Oct 04/95	Fit capacitor/resistor network to each data line, to slow down rise/fall times	Optional
D51442 & D51442-1	Quick Access Recorder - Data Corruption	SB D51442-31-1	Rev 1, Apr 03/92	Improvement to operating software. Identified as software letter D.	Optional
D51442 & D51442-1	Quick Access Recorder - Improved Immunity of the RS422 Reciever Channel	SB D51442-31-2	Rev 1, Apr 29/93	Improve immunity of RS422 receiver channel to noise spikes	Optional

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D51442 & D51442-1	Quick Access Recorder - Harvard Biphase Noise Rejection	SB D51442-31-3	Rev. 0, May 24/93	Harvard Biphase line noise rejection	Optional
D51442 & D51442-1	Quick Access Recorder - Modified Tape Guide Rails SA85204	SB D51442-31-9	Rev. 0, Mar 01/04	Testing & modifying tape guide rails on SA85204	Optional
D51442 & D51442-1	Quick Access Recorder - Tape Holes	SB D51442-31-5	Rev. 0, Sep 12/95	Extend tape drive delay	Optional
D51442 & D51442-1	Quick Access Recorder - Higher Resolution Heads	SB D51442-31-8	Rev. 0, Sep 20/99	Circuit changes required when fitting higher resolution heads	Recommended
D51442 & D51442-1	Quick Access Recorder - RS422 Interface Devices	SB D51442-31-4	Rev. 0, Jun 21/93	Improved transient protection for RS422 interface ICs	Optional
D51506	Combined Voice Flight Data Recorder - Defective Relay	SB D51506-31-1	Rev. 0, Aug 27/92	Advisory SB. Suspect relays P/N W105807/205 on mother PEC.	Information
D51506	Combined Voice Flight Data Recorder - New Motor & PEC - Mod 1	SB D51506-31-2	Rev. 0, Aug 27/92	Mod 01. New motor assy and various PEC mods.	Optional
D51508	Combined Voice Flight Data Recorder - New Motor & PEC - Mod 1	SB D51508-31-1	Rev. 0, Aug 27/92	Mod 01. New motor assy and various PEC mods.	Optional
D51521-012-102	SSCVFDR Replacement ULB	SB D51521-31-4	Rev. 0 Jul 03/19	SB to cover replacement of obsolete DK 100 ULB with DK 12-90	Information
D51521-XXX-XXX	Solid State Combined Voice Flight Data Recorder - CPM corruption	SB D51521-31-3	Rev. 0, Apr 22/00	Mos 2 & 3. Prevention of crash protected memory corruption	Recommended
D51521-XXX-XXX	Solid State Combined Voice Flight Data Recorder - CPM corruption	SB D51521-31-2	Rev. 0, Feb 21/96	Improvement to operating software.	Recommended

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D51521-XXX-XXX	Solid State Combined Voice Flight Data Recorder - CVR/FDR Fail indication	SB D51521-31-1	Rev. 0, Dec 01/95	Improved power-fail/interrupt protection	Recommended
D51610-2502	Enhanced Software Configurable Air Data Unit - Replacement P/N	SB D51610-34-01	Rev. 0, Oct 19/11	Removal of Orange Band & Replacement of Part Number Label	Customer Request
D51615-101	Multi-Purpose Flight Recorder - Improved sea water protection - Mod 9	SB D51615-31-7	Rev. 0, Jan 28/13	Mod 9: Improved seawater protection for CSMM	Information
D51615-102	Multi-Purpose Flight Recorder - Improved sea water protection - Mod 11	SB D51615-31-6	Rev. 0, Jan 28/13	Mod 11: Improved seawater protection for CSMM	Information
D51615-102	Multi-Purpose Flight Recorder - Upgrading a 0102 to a -142-090	SB D51615-31-23	Rev. 0, Oct 2018	SB to cover upgrade from D51615-102 to d51615-142-090	Information
D51615-102	Multi-Purpose Flight Recorder - Gen -3 Memory Modules	SB D51615-31-22	Rev. 1, Feb 2018	SB to cover corrosion issue.GEN 2 to GEN 3	Information
D51615-102/D51615-142	Multi-Purpose Flight Recorder - Upgrade -102 to -142-090 - (Mod 12)	SB D51615-31-18	Rev. 0, Jul 14/14	Upgrade D51615-102 to D51615-142, replace crash tube assembly. Sent for validation	Information Only
D51615-112	Multi-Purpose Flight Recorder - CSMM to RCSMM - Mod 12	SB D51615-31-10	Rev. 0, Nov 20/13	Change of Crash Box from CSMM P/N SA110303 Iss 6 to RCSMM P/N SA111527 Iss 2	Information
D51615-122	MPFR -122 to -142 upgrade	SB D51615-31-32	Rev. 0, Feb 17/20	New Service Bulletin to inform customers that the Type D51615-122 MPFR can be upgraded to Type D51615-142 Build Standard	Information
D51615-142	Multi-Purpose Flight Recorder - Software Upgrade - (SW Mod 3)	SB D51615-31-24	Rev. 2, Jun 27/19	Service Bulletin to cover software upgrade to D51615-142	Advisory

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D51615-142	DIMPFR 90-DAY ULB KIT P/N KIT112813	SB D51615-31-29	Rev. 2, Nov 17/21	New SB to cover 90 day ULB Kit 112813 ONLY  Revised 17th Nov 2021 to include Export Classification Matrix and EAR control statement IAW TDCF DS1439.	Information
D51615-142	MPFR -142 - 90 day ULB use with CSMM	SB D51615-31-28	Rev. 2, Oct 03/19	SB raised to cover the use of 90 day ULB with both CSMM & RCSMM Crash Tube Assemblies.	Information
D51615-142	Multi-Purpose Flight Recorder - CSMM to RCSMM - Mod 2	SB D51615-31-11	Rev. 0, Nov 26/13	Change of Crash Tube assembly	Information
D51615-142-090	Multi-Purpose Flight Recorder - Software Upgrade - (SW Mod 3)	SB D51615-31-25	Rev. 2, Jun 27/19	SB to cover D51615-142-090 software upgrade	Advisory
D51615-142-090, D51615-202-090, D51615-203-090 & D51615-3411-250-090	Underwater Locator Beacon	SB D51615-31-33	Rev. 0, May 06/20	SB to cover the introduction of the Type DK290 ULD for use with the MPFR range of Flight Recorders.	Information
D51615-1XX	Multi-Purpose Flight Recorder - Software raised to Ver. 4 - Mod 1	SB D51615-31-1	Rev. 0, Oct 22/02	Software raised to version 4 - Mod 1	Optional
D51615-1XX	Multi-Purpose Flight Recorder -Replace Memory Card & Software Upgrade	SB D51615-31-15	Rev. 0, Feb 17/14	Memory device obsolete, alternative part No. requires software upgrade.	Recommended
D51615-202-005 & D51615-202-011	Data Acquisition Flight Recorder - 90 Day ULB/CSMM & RCSMM	SB D51615-31-27	Rev. 3, Oct 03/19	Service Bulletin to cover the use of 90-day ULB with all Crash Trube types (CSMM/RCSMM)	Information
D51615-202-011	DAFR	SB D51615-31-31	Rev. 0, Feb 26/20	SB to cover the modification of Type D51615-202-011 to Type D51615-202-013	Recommended
D51615-202-011 and D51615-202-011-090	Data Acquisition Flight Recorder - SW upgrade	SB D51615-31-26	Rev. 2, Nov 17/21	SB raised to cover software upgrade to Bell 429 DAFR Config. SW110920  Revised 17th Nov 2021 to include export classification matrix and EAR control statement IAW TDCF DS1439.	Mandatory

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Part Number	Product Description	Publication Number	Revision Level	Comments	SB Compliance
D51615-202-XXX & D51615-203-XXX	Data Acquisition Flight Recorder - CSMM to RCSMM - Mod 1	SB D51615-31-12	Rev. 0, Nov 29/13	Change of Crash Tube assembly	Information
D51615-202-XXX and D51615-203-XXX	DAFR & DIDAFR - 90-Day ULB Kit P/N KIT112814	SB D51615-31-19	Rev. 10, Nov 17/21	Service Bulletin revised to Issue 8 to clarify installation procedure for DAFR & DIDAFR (only)  Revised 17 Nov 2021 to include export classification matrix and EAR control statement IAW TDCF DS1439.	Information
D51615-203-006	Data Acquisition Flight Recorder - Updated Software	SB D51615-31-9	Rev. 1, Sep 03/19	Updated SW111058 Configuration file from REL 03 to REL 04	Information
D51615-2XX	Data Acquisition Flight Recorder - RCSMM - Mod 1	SB D51615-31-8	Rev. 0, Jul 17/13	Replacement Crash-Survivable Memory Module	Information
D51615-3411-250	Multi-Purpose Flight Recorder - Replacement RCSMM - Mod 12	SB D51615-31-17	Rev. 0, Feb 17/14	Obsolete crash box replaced	On Repair
D51615-3411-250	Enhanced Multi-Purpose Flight Recorder - CSMM to RCSMM (Mod 1)	SB D51615-3411-31-01	Rev. 0, Feb 15/16	SB created to introduce the RCSMM to the EMPFR	Information
D51615-3411-250-090	SB to cover EMPFR with CSMM/RCSMM & 90 day ULB	SB D51615-3411-31-02	Rev. 0, Oct 22/19	SB to cover EMPFR with CSMM/RCSMM & 90 day ULB	Information
D51615-3411-250-090	EMPFR ULB KIT details	SB D51615-31-30	Rev. 2, Mar 23/21	New SB created to cover 90 day ULB kit 112814 ONLY	Information
D51615-XXX	Multi-Purpose Flight Recorder - Data Rate Check	SB D51615-31-5	Rev 5, Feb 2020	FDR Data Rate check & re-configuration procedure	Recommended
D51615-XXX	Multi-Purpose Flight Recorder - System Card Change - Mod 2	SB D51615-31-14	Rev. 0, Feb 17/14	System card modified to enable rotor speed recording function to be used with low frequency tachometer signals	On-Repair
D51615-XXX	Multi-Purpose Flight Recorder - Repair Audio Monitor Output	SB D51615-31-16	Rev. 0, Feb 17/14	Modify (Top Level only), repair to audio monitor to correct CVR fail indication.	On-Repair

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D51616-1010, D51616-1101 and D51616-1021	Cockpit Control Unit - Mod Status	SB D51616-31-01	Rev. 0, Jun 04/14	Notification of variant Mod states: D51616-1010 (Mod 2), -1101 (Mod 3), 1021 9Mod 3) and - 201 (Mod 4)	Information
D51616-1011	Cockpit Control Unit - New Pre-Amp. - Mod 3	SB D51616-31-02	Rev. 0, Mar 07/14	New Pre Amplifier SA111783 to replace existing W107822 Hybrid Pre Amplifier The PCB pre amplifier corrects the polarity inversion at the output of the existing CCU.	Information
D51616-102 & D51616-202	Cockpit Control Unit Redesign of Control Unit PEC	SB D51616-31-08	Rev. 0, Dec 11/19	SB created to cover CCU PCB redesign	Information
D51616-1021	Cockpit Control Unit - New Pre-Amp. - Mod 2	SB D51616-31-03	Rev. 0, Mar 07/14	New Pre Amplifier SA111783 to replace existing W107822 Hybrid Pre Amplifier The PCB pre amplifier corrects the polarity inversion at the output of the existing CCU.	Information
D51616-10X	Cockpit Control Unit - New Pre-Amp. - Mod 5	SB D51616-31-05	Rev. 0, Mar 07/14	New Pre Amplifier SA111783 to replace existing W107822 Hybrid Pre Amplifier The PCB pre amplifier corrects the polarity inversion at the output of the existing CCU.	Information
D51616-2021	Cockpit Control Unit - New Pre-Amp. - Mod 3	SB D51616-31-04	Rev. 0, Mar 07/14	New Pre Amplifier SA111783 to replace existing W107822 Hybrid Pre Amplifier The PCB pre amplifier corrects the polarity inversion at the output of the existing CCU.	Information
D51616-20X	Cockpit Control Unit - New Pre-Amp. - Mod 4	SB D51616-31-06	Rev. 0, Mar 07/14	New Pre Amplifier SA111783 to replace existing W107822 Hybrid Pre Amplifier The PCB pre amplifier corrects the polarity inversion at the output of the existing CCU.	Information
D51616-XXX	Cockpit Control Unit - Earth Bonding	SB D51616-31-07	Rev. 0, May 10/17	SB to cover removal of Powder Coating from inner front panel to aid bonding.	Information
D51623-XXXX	Cockpit Area Microphone - Replacement of existing equipment	SB D51623-31-01	Rev. 2, Jan 02/19	SB to cover the replacement of 51623-XXXX with D51702-XX - change to effective date 01/01/19 and dimensional changes	Information
D51624	Crash Damage Recovery Equipment - Upgrading Operating Software	SB D512624-31-1	Rev. 0, Apr 29/15	Service Bulletin to cover software upgrade to REL03 Electronics Unit to Ground Support Interface.	Information
D51640-0001	Cockpit Quick Access Recorder - Mod 5	SB D51640-31-05	Rev. 0, Jan 20/14	Mod 5: Improved Data decoding & addition of MOD1/MOD2 recording file format retro-compatibility.	Recommended
D51647-03	Icing Severity Detection System - Measuring Head Mod 1	SB D51648-31-01	Rev. 0, Jun 04/14	Revised Part Nos, Unit raised to Mod 1	Information

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D51651	Monitoring and Download Unit (379) - Software Mod 8	SB D51651-3	Rev. 0, Jul 29/13	Hardware Mod 4. Software Mod 8	Information
D51651	Monitoring and Download Unit (379) - Software Mod 5	SB D51651-2	Rev. 0, May 2009	Software mod 5.	Recommended
D51651	Monitoring and Download Unit Install/Software	SB D51651-1	Rev. 0, May 2009	Software Mod 4.	Recommended
D51701-XXX(-XX)	Fortress Recorder - Minor Logic Error	SB D51701-31-01	Rev. 0, Aug 12/19	Raise Service Bulletin to acknowledge an error in the recorder's logic	Information
D51701-XXX(-XX)	Underwater Locator Beacon/Device	SB D51701-31-02	Rev. 0, May 06/20	SB to cover the introduction of the Type DK290 ULD for use with the Fortress Recorders	Information
D51702-10	Cockpit Area Microphone Replacement of discontinued equipment	SB D51702-31-01	Rev. 0, Jan 20/20	New SB to cover the Area Mic for use with IAI	Information
D51728-0-0	HCR-25 CVR	SB D51728-23-01	Rev. 0, Mar 08/22	To cover modification of unit from Issue 1 MOD 1 to Issue 1 MOD 2, update of firmware LP112669 from REL05 to REL06.	Recommended
D52000-43/44XXX	PC Card Quick Access Recorder - Replacement PC Card Reader/Writer Assy. - Mod 1	SB D52000-43/44XXX-31-3	Rev. 0, Jul 2007	Mod 1. Replacement of card reader 001000290 with 001000357	Optional
D52000-43/44XXX	PC Card Quick Access Recorder - Special Type to Test Equipment	SB D52000-43/44XXX-31-2	Rev. 0, Jun 2006	Use of PC as alternative to VDU in conjunction with QAR test set D51501	Optional
D52000-43/44XXX	PC Card Quick Access Recorder - Improvement to Operating Software	SB D52000-43/44XXX-31-1	Rev. 0, Jun 2005	Improvement to operating software. S/W.R 8 & S/W.U 12	Recommended
D52000-43000, 44000, 63000 & 64000	PC Card Quick Access Recorder - Obsolescence of PC Card Reader Assy - Mod 2	SB D52000-43/44/63/64-31-4	Rev. 0, Jul 16/14	PCMCIA card reader modified. (MOD 2)	Mandatory

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Part Number	Product Description	Publication Number	Revision Level	Comments	SB Compliance
D52000-44000, D52000-43000, D52000-63000 & D52000-64000	PC Card Quick Access Recorder - Obsolescence of PC Card Reader Assy - Mod 2	SB D52000-43/44/63/64-31-5	Rev. 0, May 27/15	SB raised to cover Mod 3 to PQAR (Card Reader)	Information
D52000-4XXXX	Optical Quick Access Recorder - Upgrade to 230mb Operation	SB D52000-4XXXX-31-7	Rev. 0, Mar 18/98	Upgrade to 230Mbyte operation. New P/N D52000-4X2XX	Optional
D52000-4XXXX	Optical Quick Access Recorder - Prevent Drive Covers Detaching	SB D52000-4XXXX-31-13	Rev. 0, Feb 11/99	To prevent optical drive covers/board detaching during transit or high vibration	Recommended
D52000-4XXXX	Optical Quick Access Recorder - RS422 Operation	SB D52000-4XXXX-31-11	Rev. 0, Nov 18/98	Option to disable RS422 operation if not used.	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Reverting to 128mb Operation	SB D52000-4XXXX-31-10	Rev. 0, Sep 15/98	Option to revert to 128Mbyte operation. Revert to P/N D52000-4X0XX	Optional
D52000-4XXXX	Optical Quick Access Recorder - Cancellation of the requirement to clean Optical Drives	SB D52000-4XXXX-31-1	Rev. 0, Oct 07/96	Cancel requirement for cleaning optical drives.	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Improvement to Operating Software Mod 3	SB D52000-4XXXX-31-8	Rev. 0, Jun 26/98	Improvement to operating software. S/W.R 6 & S/W.U 8	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Conversion of OQAR to PQAR at Component Level	SB D52000-4XXXX-31-23	Rev. 0, Aug 16/05	Conversion of OQAR to PQAR	Optional
D52000-4XXXX	Optical Quick Access Recorder - Replacement Olympus Optical Drive	SB D52000-4XXXX-31-6	Rev. 0, Jan 16/98	Replace Sony SMO-E301F optical drive with Olympus MOS330E1X	Optional

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D52000-4XXXX	Optical Quick Access Recorder - Improvement to Operating Software Mod 2	SB D52000-4XXXX-31-5	Rev. 1, Oct 30/97	Improvement to operating software. S/W.R 5 & S/W.U 7	Optional
D52000-4XXXX	Optical Quick Access Recorder - Ejecting Optical Disks	SB D52000-4XXXX-31-4	Rev. 1, Oct 30/97	Change to optical disk removal procedure.	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Conformal Coating - Mod 9	SB D52000-4XXXX-31-03	Rev. 0, Nov 28/96	Improve operation of OQAR RS422 Tx/Rx protection circuits.	Optional
D52000-4XXXX	Optical Quick Access Recorder - Replacement Drive Signal Loom - Mod 8	SB D52000-4XXXX-31-28	Rev. 0, May 2009	Mod 8. Replacement of disk drive assembly or drive signal loom	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Replacement Drive Signal Loom - Mod 7	SB D52000-4XXXX-31-27	Rev. 1, Jun 2007	Mod 7. Replacement of drive signal loom.	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Special to Test Equipment	SB D52000-4XXXX-31-26	Rev. 0, Jul 2006	Use of PC as alternative to VDU in conjunction with QAR test set D51501	Optional
D52000-4XXXX	Optical Quick Access Recorder - Improvement to Operating Software	SB D52000-4XXXX-31-25	Rev. 0, Jun 2005	Improvement to operating software. S/W.R 8 & S/W.U 12	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Olympus/Sony Drive Replacement with Fujitsu - Mod 6	SB D52000-4XXXX-31-24	Rev. 0, Jun 2005	Mod 6. Replace Olympus/Sony MO drive with Fujitsu.	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Improvement to Fan Operation - Mod 1	SB D52000-4XXXX-31-14	Rev 2, Aug 26/99	Mod 1. Reduce risk of fan failure.	Recommended
D52000-4XXXX	Optical Quick Access Recorder - New Resistor Mounting Brackets - Mod 2	SB D52000-4XXXX-31-15	Rev 1, Aug 26/99	Mod 2. Prevent optical drive covers/boards detaching during transit or high vibration	Recommended

### Registered Company Details

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Part Number	Product Description	Publication Number	Revision Level	Comments	SB Compliance
D52000-4XXXX	Optical Quick Access Recorder - New Ruggedized Drive - Mod 4	SB D52000-4XXXX-31-17	Rev 1, Aug 26/99	Mod 4. Fitting of new ruggedised drive	Recommended
D52000-4XXXX	Optical Quick Access Recorder -Improved Operating Software - Mod 5	SB D52000-4XXXX-31-19	Rev. 0, Jun 01/01	Customer config MR000021 & improvement to operating software. S/W.R 6 & S/W.U 9	Recommended
D52000-4XXXX	Optical Quick Access Recorder - New Anti-Vibration Mounting - Mod 3	SB D52000-4XXXX-31-16	Rev 1, Aug 26/99	Mod 3. Fitting of new anti-vibration mounting	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Improvement to Operating Software	SB D52000-4XXXX-31-2	Rev. 0, Oct 29/96	Improvement to operating software. S/W.U 6	Optional
D52000-4XXXX	Optical Quick Access Recorder - Improved Operating Software	SB D52000-4XXXX-31-18	Rev 1, Nov 28/00	Improvement to operating software. S/W.R 6 & S/W.U 9	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Replacement of Identification Label	SB D52000-4XXXX-31-21	Rev. 0, Sep 26/02	Replacement of identification label.	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Increase Non-Volatile Buffer Capacity	SB D52000-4XXXX-31-9	Rev. 0, Jul 30/98	Increase non-volatile buffer capacity. New P/N D52000-40000	Recommended
D52000-4XXXX	Optical Quick Access Recorder - Replacement of PVC Wiring - Mod 5	SB D52000-4XXXX-31-20	Rev. 0, Jun 28/01	Mod 5. Replacement of PVC wiring	Optional
D52000-60102	Optical Quick Access Recorder - Improvement to Operating Software	SB D52000-60102-31-3	Rev. 0, Aug 06/96	Improvement to operating software. Iss 4.05	Optional
D52000-60102	Optical Quick Access Recorder - Improvement to Operating Software	SB D52000-60102-31-5	Rev 4, Feb 04/97	Improvement to operating software. Iss 4.05D4	Optional

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D52000-60102	Optical Quick Access Recorder - Blanking Case Ventilation	SB D52000-60102-31-2	Rev. 0, Jan 30/96	Intallation of case lower ventilation cover.	Optional
D52000-60102	Optical Quick Access Recorder - Improved Operating Software	SB D52000-60102-31-1	Rev. 0, Mar 21/95	Improvement to operating software. S/W.U 4	Optional
D52000-60102	Optical Quick Access Recorder - Cancellation of Requirement to Clean Optical Drives	SB D52000-60102-31-4	Rev. 0, Sep 23/96	Cancellation of requirement to clean optical drives	Recommended
D52000-63/64XXX	PC Card Quick Access Recorder - Conversion of CPU PEC SA108175/X	SB D52000-63/64XXX-31-4	Rev. 0, Aug 2007	Conversion of CPU PEC SA108175/X (IPC Fig 1, Item 550)	Optional
D52000-63/64XXX	PC Card Quick Access Recorder - Replacement PC Card Reader/Writer Assy. - Mod 1	SB D52000-63/64XXX-31-3	Rev. 0, Jul 2007	Mod 1. Replacement of card reader 001000290 with 001000357	Optional
D52000-63/64XXX	PC Card Quick Access Recorder - Improvement to Operating Software	SB D52000-63/64XXX-31-1	Rev. 0, Jun 2005	Improvement to operating software. S/W.R 8 & S/W.U 12	Recommended
D52000-63/64XXX	PC Card Quick Access Recorder - Special Type to Test Equipment	SB D52000-63/64XXX-31-2	Rev. 0, Jun 2006	Use of PC as alternative to VDU in conjunction with QAR test set D51501	Optional
D52000-6XXXX	Optical Quick Access Recorder - Improved Operating Software - Mod 7	SB D52000-6XXXX-31-23	Rev. 0, Jun 01/01	Customer config MR000020 & improvement to operating software. S/W.R 6 & S/W.U 9	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Improved Operating Software	SB D52000-6XXXX-31-30	Rev. 0, Jun 2005	Improvement to operating software. S/W.R 8 & S/W.U 12	Recommended

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D52000-6XXXX	Optical Quick Access Recorder - Improved Operating Software - Mod 6	SB D52000-6XXXX-31-21	Rev 1, Nov 28/00	Improvement to operating software. S/W.R 6 & S/W.U 9	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Upgrade to 230mb Operation	SB D52000-6XXXX-31-10	Rev. 0, Mar 18/98	Upgrade to 230Mbyte operation. New P/N D52000-6X2XX	Optional
D52000-6XXXX	Optical Quick Access Recorder - Replace Sony Optical Drive with Olympus Drive	SB D52000-6XXXX-31-9	Rev. 0, Jan 16/98	Replace Sony SMO-E301F optical drive with Olympus MOS330E1X	Optional
D52000-6XXXX	Optical Quick Access Recorder - Operating software - Mod 4	SB D52000-6XXXX-31-8	Rev 1, Oct 30/97	Improvement to operating software. S/W.R 5 & S/W.U 7	Optional
D52000-6XXXX	Optical Quick Access Recorder - Operating procedure disk removal	SB D52000-6XXXX-31-7	Rev 1, Oct 30/97	Change to optical disk removal procedure.	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Software change - Cathay Pacific	SB D52000-6XXXX-31-6	Rev 1, Feb 13/98	Incorporate customer-requested changes to operating software (iss 4.05D8)	Optional
D52000-6XXXX	Optical Quick Access Recorder - Software change - British Airways	SB D52000-6XXXX-31-5	Rev 3, Feb 11/98	Incorporate customer-requested changes to operating software (iss 4.04D8)	Optional
D52000-6XXXX	Optical Quick Access Recorder - Software change - British Airways	SB D52000-6XXXX-31-4	Rev. 0, Jan 13/97	Incorporate customer-requested changes to operating software (iss 4.04D3)	Optional
D52000-6XXXX	Optical Quick Access Recorder - Alternative Test Equipment	SB D52000-6XXXX-31-31	Rev. 0, Jun 2006	Use of PC as alternative to VDU in conjunction with QAR test set D51501	Optional
D52000-6XXXX	Optical Quick Access Recorder - Instructions to prevent Drive damage	SB D52000-6XXXX-31-1	Rev. 0, Oct 07/96	Improve operation of OQAR RS422 Tx/Rx protection circuits.	Optional

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D52000-6XXXX	Optical Quick Access Recorder - Replace Sony/Olympus Drive with Fujitsu Mod 6 & Mod 7	SB D52000-6XXXX-31-29	Rev. 1, June 2007	Mod 6. Replace Olympus/Sony MO drive with Fujitsu.	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Conversion to PQAR - Component Level	SB D52000-6XXXX-31-28	Rev. 0, Aug 16/05	OQAR to PQAR conversion	Optional
D52000-6XXXX	Optical Quick Access Recorder - Replacement Identification Label	SB D52000-6XXXX-31-25	Rev. 0, Sep 26/02	Replacement of identification label.	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Dissable RS422 Operation	SB D52000-6XXXX-31-14	Rev. 0, Nov 18/98	Option to disable RS422 operation if not used.	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Improved Operating Software - Mod 5	SB D52000-6XXXX-31-11	Rev. 0, Jun 26/98	Improvement to operating software. S/W.R 6 & S/W.U 8	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Increase the Non-Volatile Buffer Capacity	SB D52000-6XXXX-31-12	Rev. 0, Aug 24/98	Increase non-volatile buffer capacity. New P/N D52000-60000	Optional
D52000-6XXXX	Optical Quick Access Recorder - Replacement Disk Drive Assy - Mod 8	SB D52000-6XXXX-31-33	Rev. 0, May 2009	Mod 8. Replacement of disk drive assembly or drive signal loom	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Reterfing to 128mb Operation	SB D52000-6XXXX-31-13	Rev. 0, Sep 15/98	Option to revert to 128Mbyte operation. Revert to P/N D52000-6X0XX	Optional
D52000-6XXXX	Optical Quick Access Recorder - Replacement PVC Wiring - Mod 5	SB D52000-6XXXX-31-24	Rev. 0, Jun 28/01	Mod 5. Replacement of PVC wiring.	Optional
D52000-6XXXX	Optical Quick Access Recorder -Conversion to D52000-62200 (A330)	SB D52000-6XXXX-31-15	Rev. 0, Jan 25/99	Conversion to P/N D52000-62200, to enable operation on Airbus A330 aircraft	Optional

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D52000-6XXXX	Optical Quick Access Recorder - Prevent Drive Covers Detaching	SB D52000-6XXXX-31-16	Rev. 0, Feb 15/99	To prevent optical drive covers/board detaching during transit or high vibration	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Case Ventilation Blanking - Mod 5	SB D52000-6XXXX-31-22	Rev. 0, Dec 12/00	Case ventilation blanking.	Optional
D52000-6XXXX	Optical Quick Access Recorder - New Resistor Mounting Brackets - Mod 2	SB D52000-6XXXX-31-18	Rev 1, Aug 26/99	Mod 2. Fitting of new resistor mounting brackets.	Recommended
D52000-6XXXX	Optical Quick Access Recorder - New Anti-Vibration Mounting - Mod 3	SB D52000-6XXXX-31-19	Rev 1, Aug 26/99	Mod 3. Fitting of new anti-vibration mounting.	Recommended
D52000-6XXXX	Optical Quick Access Recorder - New Ruggedized Drive - Mod 4	SB D52000-6XXXX-31-20	Rev 1, Aug 26/99	Mod 4. Fitting of new ruggedised drive.	Recommended
D52000-6XXXX	Optical Quick Access Recorder - Improved Fan Operation - Mod 1	SB D52000-6XXXX-31-17	Rev 2, Aug 26/99	Mod 1. Improvement to fan operation	Recommended
D52000-XXXXX	Optical Quick Access Recorder - New Fuse Holder	SB D52000-XXXXX-31-03	Rev. 0, Jul 19/18	SB to cover introduction of New Fuse Holder to PQAR (Mod 4)	Information
D52000-XXXXX	PC Card Quick Access Recorder - Adhesive on screws - Mod 02	SB D52000-XXXXX-31-01	Rev. 0, Aug 2014	PQAR Mod 2. Application of Loctite to screws on card reader.	Recommended
D52000-XXXXX	PC Card Quick Access Recorder - Discontinued 256mb Card	SB D52000-XXXXX-31-02	Rev. 1, Jul 26/18	SB to cover discontinued PCMCIA card SA110414-0256, replaced with SA110415-1024.	Information
D5509	Airspeed Transducer TP10	SB 31-10-5509-03	Rev. 2, Nov 1975	Mod 3. Static leak tests	Mandatory
D5509	Airspeed Transducer TP10	SB 31-10-5509-05	Rev. 0, May 31/82	Mod 05. Wiper fixture: improved reliability.	Recommended

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D5509	Airspeed Transducer Type TP10 Static Leaks - Mod 3	SB A31-10-5509-03	Rev. 2, Apr 01/75	Replacement seals	Mandatory
D5921	Mach Pressure Error Correction Transducer	SB 34-10-2	Rev. 0, Feb 7/72	To correct the phasing of the Pressure Error Output signal.	Mandatory
D5921, D5922	Mach Pressure Error Correction Transducer	SB 34-10-1	Rev 1, Mar 18/71	Mod 01. Eliminate risk of transducer damage by possible wrong external wiring	Recommended
D60145MOD01	Air Data System - Caution Label	SB D60145-34-1	Rev. 0, Jan 07/89	Affix "Caution" label	Mandatory
D60163	Air Data Sensor - Software	SB D60163-34-2	Rev. 1, Jan 12/90	Mod 03. Install SSEC software.	Recommended
D60163	Air Data Sensor - Service life upgrade	SB D60163-34-4	Rev. 0, Jan 13/92	Mods 04 (enhanced BITE), 05 (modify airspeed transducer), 06 (add Status Word).	Mandatory
D60302	Computer Controlled Air Data Test Set 2- Pump couplin upgrade	SB D60302-12-1	Rev. 0, Mar 09/92	Pump coupling upgrade.	Recommended
D60340MK	Computer Controlled Air Data Test Set 2- Backlight Inverter	SB D60340-31-1	Rev. 0, May 2010	Replacement of backlight inverter 115666031 with 115666040.	Optional
D60344-1	Measuring Head (ISDS) - Addition of cable tie - Mod 1	SB D60344-31-01	Rev. 0, Oct 15/14	Unit raised to Mod 01 - Addition of single cable tie to secure wires in filter box	Information
D60345	Electronic Unit (ISDS) - Mod 01	SB D60345-30-2	Rev. 4, Apr 24/14	SB to cover alternative Transistor and Attaching parts	Information
D60345	Electronic Unit (ISDS) - Software Version 4	SB D60345-30-1	Rev. 0, Jan 23/03	ISDS circuit board upgraded to Mod 1	Information
D6400	Recycling Recorder - Mod 5	SB 800-D6400-31-5	Rev. 3, Apr 25/75	Mod 5. To allow unit to be used on either Plessey or Hamilton Std IDS	Recommended
D6400	Recycling Recorder - Guide Roller Dimensions	SB 800-D6400-31-9	Rev. 0, Nov 23/79	Guide roller dimensions.	Recommended

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Part Number	Product Description	Publication Number	Revision Level	Comments	SB Compliance
D6400	Recycling Recorder - Improved Failure Detection - Mod 7	SB 800-D6400-31-8	Rev. 1, Mar 19/79	Mod 7. Improvement of failure detection.	Recommended
D6400	Recycling Recorder - Alternative Type of Counter Wheel	SB 800-D6400-31-6	Rev. 0, Nov 08/76	Introduce alternative type of counter wheel.	Information
D6400	Recycling Recorder - Mod 3	SB 800-D6400-31-3	Rev. 0, Feb 25/72	Mod 3. Standardisation of wiring of monitor head amplifier.	Recommended
D6400	Recycling Recorder - Mod 2	SB 800-D6400-31-2	Rev. 2, Apr 14/72	Mod 2. Improvement to tape guidance & drive.	Recommended
D6400	Recycling Recorder - Mod 11	SB 800-D6400-31-13	Rev. 0, May 06/98	Mod 11. Electronic Module Assy mod to enable use of Tape Spool SA11937/1	Recommended
D6400	Recycling Recorder - Alternative Motor Fitted	SB 800-D6400-31-12	Rev. 0, Jul 19/85	Mod 10. Change in component values where alternative motor fitted.	Recommended
D6400	Recycling Recorder - Improved Failure Detection - Mod 9	SB 800-D6400-31-11	Rev. 2, Jan 08/82	Mod 9. Improvement of failure detection.	Recommended
D6400	Recycling Recorder - Improved Failure Detection - Mod 8	SB 800-D6400-31-10	Rev. 0, May 16/80	Mod 8. Improvement of failure detection.	Recommended
D6400	Recycling Recorder - Introduction of Spool Brakes - Mod 1	SB 800-D6400-31-1	Rev. 0, Sep 24/71	Mod 1. Introduction of spool brakes	Recommended
D6400	Recycling Recorder - Alternative Types of Capacitors - Mod 6	SB 800-D6400-31-7	Rev. 3, Mar 16/79	Mod 6. Introduce alternative type of capacitors.	Optional
D7165	Recycling Recorder - Mod 2	SB 800-D7165-31-2	Rev. 0, Aug 04/72	Mod 2. Prolong life of recording tape by changing pinch roller material in trial units.	Trial
PGS 1508/1 D3425/6	Acceleration Transducer - Calibration Check	SB D3425-31-1	Rev. 0, Mar 24/71	Change to "On Condition" basis, subject to periodic calibration check	Recommended

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PGS 1510/1 D4524/2	Accelerometer - Calibration Check	SB D4524-31-1	Rev. 0, Mar 24/71	Information re transducer calibration period.	Recommended
RD/D7099	Recorder Unit - Removal of Proportional Motor Control	SB RD-D7099-31-2	Rev. 0, Mar 07/80	Mod 2. Removal of proportional motor control	Optional
RD/D7099	Recorder Unit - Plessey Unit	SB RD/D7099-31	Rev. 0, Jul 01/76	Replacement drive motor & electronic module	Information
RD/D7099	Recorder Unit - Mod 1	SB RD-D7099-31-1	Rev. 0, Jun 21/72	Mod 1. Improvement to EOT & tape breakage detection	Recommended