

# HAMILTON SUNDSTRAND APU PUBLICATIONS (Business Aircraft Models Only)

| <u>Publication #</u> | <u>Revision #</u> | <u>Revision Date</u> | <u>Title</u>                                     |
|----------------------|-------------------|----------------------|--|
| 1179                 |                   | 07/30/99             | Electronic Sequence Unit Repair Manual           |
| 1205                 |                   | 11/15/02             | Electronic Sequence Unit Repair Manual           |
| 1210                 |                   | 07/01/03             | Analog Converter Repair Manual                   |
| 1067-1               | 4                 | 05/15/06             | T-20G-10C3 Maintenance Manual                    |
| 1067-2               | 4                 | 05/15/06             | T-20G-10C3 Repair Manual                         |
| 1067-3               | 5                 | 05/15/06             | T-20G-10C3 Illustrated Parts Catalog             |
| 1068-1               | 3                 | 04/15/06             | T-20G-10C3A Maintenance Manual                   |
| 1068-2               | 3                 | 04/15/06             | T-20G-10C3A Repair Manual                        |
| 1068-3               | 4                 | 04/15/06             | T-20G-10C3A Illustrated Parts Catalog            |
| 10C3A SYS            | 1                 | 04/01/00             | Bulletin 10C3A SYS                               |
| 29A                  |                   | 06/01/71             | T-62T-29A Maintenance, Overhaul and IPC          |
| 39-1                 | 4                 | 10/31/05             | T-62T-39 Maintenance Manual                      |
| 39-2                 | 4                 | 10/31/05             | T-62T-39 Repair Manual                           |
| 39-3                 | 5                 | 10/31/05             | T-62T-39 Illustrated Parts Catalog               |
| 40C/C1/C2-1          | 3                 | 01/15/06             | T-62T-40C/C1/C2 Maintenance Manual               |
| 40C/C1/C2-2          | 3                 | 01/15/06             | T-62T-40C/C1/C2 Repair Manual                    |
| 40C/C1/C2-3          | 3                 | 01/15/06             | T-62T-40C/C1/C2 Illustrated Parts Catalog        |
| 40C3-1               | 2                 | 06/15/06             | T-62T-40C3 Maintenance Manual                    |
| 40C3-2               | 2                 | 06/15/06             | T-62T-40C3 Repair Manual                         |
| 40C3-3               | 2                 | 06/15/06             | T-62T-40C3 Illustrated Parts Catalog             |
| 40C3A/3A1-1          | 5                 | 06/15/06             | T-62T-40C3A/3A1 Maintenance Manual               |
| 40C3A/3A1-2          | 5                 | 06/15/06             | T-62T-40C3A/3A1 Repair Manual                    |
| 40C3A/3A1-3          | 5                 | 06/15/06             | T-62T-40C3A/3A1 Illustrated Parts Catalog        |
| 40C7A/7D SYS         |                   | 03/01/00             | Bulletin T40C7A/D SYS                            |
| 40C7A/7D-1           | 8                 | 03/01/08             | T-62T-40C7A/D Maintenance Manual                 |
| 40C7A/7D-2           | 8                 | 03/01/08             | T-62T-40C7A/D Repair Manual                      |
| 40C7A/7D-3           | 8                 | 03/01/08             | T-62T-40C7A/D Illustrated Parts Catalog, TR49-12 |
| 40C7E2-1             | 4                 | 07/15/06             | T-62T-40C7E2 Maintenance Manual                  |
| 40C7E2-2             | 4                 | 07/15/06             | T-62T-40C7E2 Repair Manual                       |
| 40C7E2-3             | 4                 | 07/15/06             | T-62T-40C7E2 Illustrated Parts Catalog           |
| 40C8D1 SYS           |                   | 03/01/01             | Document 40C8D1 SYS                              |
| 40C8D1-1             | 4                 | 03/15/06             | T-62T-40C8D1 Maintenance Manual                  |
| 40C8D1-2             | 4                 | 03/15/06             | T-62T-40C8D1 Repair Manual                       |
| 40C8D1-3             | 5                 | 03/15/06             | T-62T-40C8D1 Illustrated Parts Catalog           |
| 40C9-1               | 2                 | 07/15/06             | T-62T-40C9 Maintenance Manual                    |
| 40C9-2               | 2                 | 07/15/06             | T-62T-40C9 Repair Manual                         |
| 40C9-3               | 2                 | 07/15/06             | T-62T-40C9 Illustrated Parts Catalog             |
| 49-06-14             | 0                 | 09/15/08             | Electronic Sequence Unit PWAs                    |
| 49-10-21             | 1                 | 09/15/03             | Engine Control Harness Assembly                  |
| 49-10-22             | 2                 | 03/15/06             | Engine Control Harness Assembly                  |
| 49-10-23             |                   | 05/15/01             | Engine Control Harness Assembly                  |
| 49-10-26             | 2                 | 04/15/06             | Engine Control Harness Assembly                  |
| 49-10-28             |                   | 09/15/01             | Engine Control Harness Assembly                  |
| 49-10-34             | 1                 | 01/15/06             | Engine Control Harness Assembly                  |
| 49-10-40             | 1                 | 06/15/06             | Engine Control Harness Assembly                  |
| 49-22-02             | 3                 | 09/15/02             | Turbine Assembly                                 |
| 49-22-03             | 3                 | 11/15/02             | Turbine Assembly                                 |
| 49-23-00             | 5                 | 10/15/02             | Reduction Drive Assy                             |
| 49-23-01             | 5                 | 11/15/02             | Reduction Drive Assy                             |
| 49-31-05             | 4                 | 03/15/06             | Acceleration Control Assembly                    |
| 49-31-19             | 2                 | 04/15/06             | Fuel Control and Pump Assembly                   |
| 49-32-05             | 3                 | 10/31/05             | Fuel Pump  |
| 49-32-10             | 1                 | 04/15/06             | Fuel Pump Assembly                               |
| 49-35-01             |                   | 08/15/01             | Electronic Sequence Unit                         |
| 49-41-12             |                   | 04/01/04             | Starter Motor                                    |
| 49-42-10             |                   | 04/15/00             | Ignition Exciter                                 |

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| 49-43-10             | 1                 | 02/15/03             | Start By-Pass Valve                    |
| 49-53-17             |                   | 01/15/02             | Actuated Butterfly Valve               |
| 49-61-04             | 2                 | 09/15/01             | Electronic Sequence Unit               |
| 49-61-05             | 2                 | 01/15/02             | Electronic Sequence Unit               |
| 49-61-07             | 1                 | 12/01/01             | Electronic Sequence Unit               |
| 49-61-09             | 3                 | 04/15/06             | Electronic Sequence Unit               |
| 49-61-10             | 1                 | 06/15/06             | Electronic Sequence Unit               |
| 49-61-12             | 0                 | 09/15/08             | Electronic Sequence Unit               |
| 49-63-01             | 2                 | 07/01/03             | Frequency/Analog Converter             |
| 49-73-10             | 1                 | 04/15/06             | Fuel Atomizer Assembly                 |
| APS500C/I/R          | 9                 | 12/01/07             | Cleaning, Inspection and Repair Manual |

## **Service Bulletins**

|                |    |          |  |
|----------------|----|----------|--|
| SB-T-20G-49-1  |    | 01/04/95 | Improved Fuel Control Assembly                       |
| SB-T-20G-49-2  |    | 09/04/96 | 65-98% Speed Timer Extension                         |
| SB-T-20G-49-3  |    | 09/03/96 | Incorporation of ESU Mod Plate                       |
| SB-T-20G-49-4  |    | 04/04/97 | Replacement of Fuel Control & Pump Assy.             |
| SB-T-20G-49-5  | 1  | 10/26/04 | ESU Upgrade to Improve APU Start Reliability         |
| SB-T-20G-49-6  | 1  | 07/11/00 | Improved Cold Start Reliability                      |
| SB-T-20G-49-8  |    | 08/30/02 | Intro of Atomizer Assy. & Interconnect Harness Assy. |
| SB-T-20G-49-9  |    | 02/19/04 | Improved APU Start Reliability                       |
| SB-T-20G-49-10 |    | 04/21/03 | Intro of Mechanical Fuel Pump w/ Increased Clearance |
| SB-T-20G-49-11 |    | 11/22/05 | Intro of Fuel Control & Pump Assy w/ Elbow Filter    |
| SB-T-20G-49-12 | 1  | 05/15/13 | Introduction of Digital Electronic Sequencing Unit   |
| SB-T-20G-49-13 |    | 03/08/10 | Intro of Fuel Control & Pump Assy w/ Stronger Shaft  |
| SB-T-20G-49-14 |    | 10/28/10 | Introduction of Improved Atomizer Assembly           |
| SB-T-20G-49-15 |    | 06/26/12 | Introduction of Improved Thermocouple Harness        |
| SB-T-62T-49-23 | 1  | 10/01/85 | STAB II, Incorporate New Design                      |
| SB-T-62T-49-31 | 2  | 01/04/88 | Cleaning of Air Inlet and Compressor                 |
| SB-T-62T-49-32 | 3  | 12/01/89 | Cleaning of Air Inlet and Compressor                 |
| SB-T-62T-49-33 | 1  | 10/31/84 | Wiring Change, Hourmeter Power Circuit               |
| SB-T-62T-49-36 | 1  | 03/03/89 | Fuel Control Assembly Self-Locking Nut               |
| SB-T-62T-49-41 |    | 02/25/84 | Procedure for Servicing Lubricating Oil              |
| SB-T-62T-49-42 |    | 05/23/85 | Replace Hourmeter w/ Newer Quartz Hourmeter          |
| SB-T-62T-49-46 | 1  | 01/06/87 | Replace Line Mounted Flow Restrictor                 |
| SB-T-62T-49-50 |    | 06/22/87 | Reconfiguration of Oil Separator Closure             |
| SB-T-62T-49-58 | 1  | 08/29/01 | Revised Chip Detector Inspection Procedure           |
| SB-T-62T-49-60 |    | 04/04/88 | Major Configuration Difference of the T-62T-39 APU   |
| SB-T-62T-49-61 |    | 09/01/88 | O-Ring Retrofit                                      |
| SB-T-62T-49-63 |    | 04/04/89 | Restrictor Plate Installation                        |
| SB-T-62T-49-64 |    | 05/09/89 | Inspection and Replacement of IMC Fuel Sol. Valves   |
| SB-T-62T-49-65 | 1  | 07/06/89 | Inspection and Replacement of IMC Fuel Sol. Valves   |
| SB-T-62T-49-66 |    | 05/09/89 | Inspection and Replacement of IMC Fuel Sol. Valves   |
| SB-T-62T-49-67 |    | 05/09/89 | Inspection and Replacement of IMC Fuel Sol. Valves   |
| SB-T-62T-49-74 | 1  | 03/31/94 | Inspection of Main Fuel Manifold                     |
| SB-T-62T-49-76 | 13 | 02/14/08 | Replacement Life-Limit Comp's (Turb/Comp Wheels)     |
| SB-T-62T-49-77 | 10 | 08/29/05 | Periodic Inspection Schedule                         |
| SB-T-62T-49-78 | 1  | 04/08/94 | Introduction of Low-Carbon Combustor Liner           |
| SB-T-62T-49-79 | 2  | 04/08/94 | Introduction of Kalrez Packings                      |
| SB-T-62T-49-80 | 2  | 08/19/93 | Bypass Valve Mounting Bolts/Torques                  |
| SB-T-62T-49-81 |    | 09/15/92 | Extension of APU Operating Limits                    |
| SB-T-62T-49-83 |    | 10/02/92 | Oil Filter Replacement                               |
| SB-T-62T-49-86 | 3  | 07/12/00 | Incorporation of Modification Plate                  |
| SB-T-62T-49-87 | 1  | 09/08/92 | Low Carbon Combustion Liner, (screen removal)        |
| SB-T-62T-49-90 |    | 06/23/93 | Gimbal Fuel Pump & Acceleration Control Upgrade      |
| SB-T-62T-49-91 | 2  | 06/24/94 | Common Core Rotor                                    |

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| SB-T-62T-49-92       | 3                 | 08/18/99             | H-13 Fuel Pump Drive Shaft Mod                     |
| SB-T-62T-49-93       | 2                 | 04/19/94             | Common Core Rotor                                  |
| SB-T-62T-49-95       | 4                 | 06/26/97             | New Fuel Manifold Assembly & Associated Hardware   |
| SB-T-62T-49-96       | 3                 | 10/31/97             | H-13 Fuel Pump Drive Shaft Mod                     |
| SB-T-62T-49-107      |                   | 10/11/95             | Solid State Hourmeter/Event (Cycle) Counter        |
| SB-T-62T-49-108      | 3                 | 07/03/97             | New Fuel Manifold Assembly & Associated Hardware   |
| SB-T-62T-49-109      |                   | 10/17/94             | New Segmented Seal Plate                           |
| SB-T-62T-49-110      | 1                 | 11/01/96             | New Underspeed and Enabling RTL Setpoint           |
| SB-T-62T-49-111      |                   | 01/29/96             | ESU-Short Circuit Protection Upgrade               |
| SB-T-62T-49-113      | 1                 | 10/31/97             | New Fuel Manifold and Associated Hardware          |
| SB-T-62T-49-115      |                   | 04/30/96             | Phase 1 Rotor Auxiliary Power Unit (APU)           |
| SB-T-62T-49-116      |                   | 10/19/95             | Improved Start Bypass Valve Flange Gasket          |
| SB-T-62T-49-118      | 1                 | 06/17/96             | Quick Release Filter Bypass Valve Housing Assembly |
| SB-T-62T-49-119      |                   | 04/01/96             | APU Compressor Wheel Inspection                    |
| SB-T-62T-49-120      | 2                 | 11/05/96             | Replacement of Compressor Wheel                    |
| SB-T-62T-49-121      |                   | 10/25/96             | Inspection for Turbine Wheel Damage                |
| SB-T-62T-49-123      |                   | 01/23/97             | Replacement of Turbine Wheel                       |
| SB-T-62T-49-125      | 1                 | 06/09/97             | Wide Angle Start Nozzle Holder Assembly            |
| SB-T-62T-49-136      | 2                 | 12/22/99             | Modification of Electronic Sequence Unit (ESU)     |
| SB-T-62T-49-148      | 1                 | 12/20/01             | Replacement of Compressor Wheel                    |
| SB-T-62T-49-153      | 2                 | 05/15/03             | Introduce Carrier & Bearing w/ Locking Feature     |
| SB-T-62T-49-171      | 1                 | 12/01/00             | Common Core Rotor Modification                     |
| SB-T-62T-49-172      |                   | 04/12/00             | Redesigned Starter Motor Clutch                    |
| SB-T-62T-49-174      | 1                 | 04/08/03             | Modify Phase 1 Turbine Assy. Pinion Input Assy.    |
| SB-T-62T-49-175      |                   | 10/12/00             | Phase 1 Rotor Modification                         |
| SB-T-62T-49-178      |                   | 12/05/01             | Oil Sump Doubler                                   |
| SB160370-49-2        |                   | 07/12/90             | Replacement of Start Bypass Mounting Bolts         |
| SB160370-49-4        |                   | 07/12/90             | Replacement of Line-Mounted Flow Restrictor        |
| SB160371-49-3        |                   | 06/01/90             | Replace Hourmeter and Events Counter               |
| SB160371-49-7        | 1                 | 09/03/91             | Replace Fuel Pump Auxiliary Drive Shaft Assembly   |
| SB160980-49-2        |                   | 07/18/90             | Replace Start Bypass Valve Mounting Bolts          |
| SB160980-49-3        |                   | 09/03/91             | Replace Fuel Pump Auxiliary Drive Shaft Assembly   |

## **Service Information Letters**

|                   |   |          |  |
|-------------------|---|----------|--|
| SIL APS500-49-131 |   | 01/21/91 | Alternate ESU (T40C8D1)                              |
| SIL APS500-49-171 |   | 04/20/92 | New Logbooks (All Models)                            |
| SIL APS500-49-202 |   | 05/13/94 | De-Icing Fluid Ingestion (All Models)                |
| SIL APS500-49-203 |   | 08/08/94 | Uncontained Failure (T40C,C1,C2)                     |
| SIL APS500-49-205 |   | 09/23/94 | APU Logbook Procedures (All Models)                  |
| SIL APS500-49-291 |   | 01/11/95 | ESU Retrofit Program (T40C,C1)                       |
| SIL APS500-49-317 |   | 10/13/95 | Removable Magnetic Plug Torque Value (All Models)    |
| SIL APS500-49-321 | 1 | 07/19/96 | Gearbox (Reduction Drive) Related Events (T40C8D1)   |
| SIL APS500-49-351 |   | 03/24/98 | Foreign Object Damage (All Models)                   |
| SIL APS500-49-352 | 2 | 07/13/06 | Turbine Wheel Life Enhancement (All Models)          |
| SIL APS500-49-354 | 1 | 12/10/99 | Fuel Pump/Accel Control Spline Material (All Models) |
| SIL APS500-49-395 |   | 11/07/00 | Oil Contamination Inspection (All Models)            |
| SIL APS500-49-408 | 7 | 02/20/15 | Recommended Lubrication Oils (All Models)            |
| SIL APS500-49-506 | 1 | 06/07/11 | GAC Designated APU Service Provider (All Models)     |
| SIL APS500-49-513 | 1 | 03/26/10 | Hour and Cycle Count Manually (All Models)           |