



# **WEST STAR AVIATION**

## **FAA Certificated Repair Station**

**Air Agency Certificate Number 3WTR399B  
5904 Pinehurst Ave.  
Chattanooga, TN 37421**

# **Capabilities List Manual**

Original Issue Date: August 6, 2010

Revision: 50 Date: April 9, 2024

Manual Approved By: \_\_\_\_\_

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## Record of Revisions

This Capabilities List will be revised electronically. The footer will indicate the current revision number and date of the entire manual. Revision bars in the left margin are used to indicate revised material in this manual.

Refer to the chart below to see past revision numbers and release dates.

Revision Number	Revision Date	Revision Number	Revision Date
Original	August 6, 2010	Revision 31	December 8, 2020
Revision 1	September 17, 2010	Revision 32	January 8, 2021
Revision 2	November 2, 2011	Revision 33	February 01, 2021
Revision 3	January 30, 2012	Revision 34	March 10, 2021
Revision 4	February 28, 2012	Revision 35	May 03, 2021
Revision 5	May 21, 2012	Revision 36	July 07, 2021
Revision 6	June 7, 2012	Revision 37	August 19, 2021
Revision 7	February 17, 2013	Revision 38	November 1, 2021
Revision 8	May 14, 2013	Revision 39	December 16, 2021
Revision 9	October 23, 2013	Revision 40	April 21, 2022
Revision 10	April 17, 2014	Revision 41	May 17, 2022
Revision 11	May 19, 2014	Revision 42	August 18, 2022
Revision 12	October 17, 2014	Revision 43	November 03, 2022
Revision 13	September 4, 2016	Revision 44	January 16, 2023
Revision 14	March 1, 2016	Revision 45	April 11, 2023
Revision 15	March 25, 2016	Revision 46	May 10, 2023
Revision 16	May 4, 2016	Revision 47	September 25, 2023
Revision 17	July 20, 2016	Revision 48	February 21, 2024
Revision 18	August 02, 2016	Revision 49	March 11, 2024
Revision 19	December 2, 2016	Revision 50	April 9, 2024
Revision 20(Rewrite)	October 30, 2017		
Revision 21	August 13, 2018		
Revision 22	February 26, 2019		
Revision 23	February 28, 2020		
Revision 24	April 28, 2020		
Revision 25	May 4, 2020		
Revision 26	August 24, 2020		
Revision 27	August 27, 2020		
Revision 28	September 29, 2020		
Revision 29	October 21, 2020		
Revision 30	November 16, 2020		

## Manual Control

- A. Procedures for revising West Star Aviation Capability list.
1. The Accountable Manager will be responsible for making and submitting revisions.
  2. The Capability List will be kept in electronic format accessible on West Star Aviation (WSA) computer network. An up-to-date electronic version will also be available on West Star Aviation's Shared Network File computer system, which is available for employee use and reference. The revised list and any other necessary technical data will be submitted via email within 5 business days of revising to West Star Aviation's Principal Inspector at the Nashville Flight Standards District Office.
  3. Revised material will be indicated by revision bars on the side margins. All revisions will be dated using the revision approval date by the Accountable Manager. The table of contents and list of effected pages will also be updated to reflect the revision.
  4. The cover page of the manual will be approved and signed by the Accountable Manager.
  5. The Nashville Flight Standards District Office will receive a copy of the Capabilities List showing revision(s) in an electronic format, and will be sent to the assigned Principal Inspector (PI) for the acceptance.
- B. Procedures for self-evaluation and reporting the results of the self-evaluations for the capability list 145.215(c)
1. Self-evaluation will be performed when another aircraft, engine, or article needs to be added or removed.
  2. An example of the General Repair Station Needs Assessment Form WSAF 1199 can be found at the end of this manual.
  3. The Accountable Manager will perform the self-evaluations and must have the following qualifications:
    - a. Experience with performing evaluations.
    - b. An understanding of the requirements of Part 145.
    - c. Knowledge of the maintenance requirements for the particular make/model of article to be added to the list.
  4. Each article in the list must have a General Repair Station Needs Assessment Form WSAF 1199 completed by the Accountable Manager.
  5. This form must be completely filled out, signed and available for review to the Nashville Flight Standards District Office.
  6. The General Repair Station Needs Assessment Form WSAF 1199 will be kept in an electronic version available on West Star Aviation's Shared Network File computer system for a minimum of 2 years.
- C. Procedures for reporting deficiencies found.
1. WSAF 1315 Corrective Action Form will be filled out to report any deficiencies found during the self-evaluation. This form will be used to report to the Accountable Manager for review and resolution.
  2. The WSAF 1315 Corrective Action Forms will be kept in an electronic version available on West Star Aviation's Shared Network File computer system.
- D. Procedures for completing the General Repair Station Needs Assessment Form WSAF 1199 and the procedure for its use are located at the end of this manual.

## Limited Ratings

### Airframe

Manufacturer	Make / Model	Limitations
Textron Aviation <i>Formerly Cessna</i>	Citation 500 & 501 Cessna 510 Citation 525, 525A, 525B, 525C Citation S550, 550, 551 & 560, 560XL, 560XLS, 560XLS+ Citation 650 Citation 680 Citation 680A Citation 700 Citation X (750)	None
Gulfstream Aerospace LP	Astra Astra SPX / G100 G150 G200 / Galaxy G280	None
Gulfstream Aerospace Corporation	G-IV GV GV-SP GIV-X GVI G650 / GVI GIII (G-1159A)	None
Gulfstream Aerospace Corporation	GVII-G500	Paint Only
Dassault Aviation	Falcon 10 Series Falcon 20 Series Falcon 50 Series Falcon 900 Series Falcon 2000 Series Falcon 7X	None
Learjet Inc.	31,35,36,40/70,45/75,55,60 Series	None
Textron Aviation <i>Formerly Beechcraft</i>	King Air 90, 100, 200 & 300 Series HS-125-700A & -700B Hawker 800 Hawker 800A & -800B Hawker 800XP Hawker 850XP Hawker 900XP Hawker 1000 Beechjet / Hawker 400 Series	None

Airframe (continued)

Manufacturer	Make / Model	Limitations
Bombardier (Challenger)	BD-100-1A10 CL-600-1A11 CL-600-2A12 CL600-2B16 CL600-2B19	None
Bombardier (Global)	BD-700-1A10 BD-700-1A11	None
Embraer	EMB-500 (Phenom 100) EMB-505 (Phenom 300) EMB-545 (Legacy 450) EMB-545 (Praetor 500) EMB-550 (Legacy 500) EMB-550 (Praetor 600)	None
Embraer	ERJ-190-100 ECJ (Lineage 1000) EMB-135BJ (Legacy 600/650) EMB-135 Series EMB-140 Series EMB-145 Series	None
Pilatus	PC-24	Engine nacelle repaint for registration number change only.

### Powerplant

Manufacturer	Make / Model	Limitations
Honeywell International	TFE731-2 TFE731-2-1C TFE731-2-2B TFE731-2B TFE731-3 TFE731-3-1C TFE731-3A – 200G TFE731-3A-2B TFE731-3A-2B1 TFE731-3AR-2B1 TFE731-3AR-2B TFE731-3B TFE731-3AR-3B1 TFE731-3AR-3B TFE731-3BR TFE731-3C TFE731-3CR TFE731-3R TFE731-4R Series TFE731-5 TFE731-5R TFE731-5AR-1C TFE731-5AR-1H TFE731-5AR-2C TFE731-5BR TFE731-5BR-1C TFE731-20R-1B TFE731-20AR TFE731-20AR-1B TFE731-20BR TFE731-20BR-1B TFE731-40 TFE731-40-1C TFE731-40R-200G TFE731-40AR-200G TFE731-50R TFE731-60-1C TPE331-6 TPE331-8 TPE331-10 AS907-1 Series AS907-2 Series AS907-3 Series GTCP-36-100 Series GTCP-36-150 Series 36-150IAI RE100 Series RE100CX RE100XL RE100CS RE100LJ RE220 Series HTF 7000 Series	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.

Powerplant (Continued)

Manufacturer	Make / Model	Limitations
Williams International	FJ44-1A FJ44-1AP FJ44-2A FJ44-2C FJ44-3A FJ44-3A-24 FJ44-4A	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
Pratt and Whitney Canada Corp.	JT15D-1, -1A, -1B JT15D-4, -4B JT15D-5, 5A,5B,5D,5R,5F PT6A-21 PT6A-28 PT6A-36 PT6A-38 PT6A-41 PT6A-42 PT6A-52 PT6A-60 PT6A-65 PT6A-67 PT6A-110 PT6A-112 PT6A-121 PT6A-135	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
Pratt and Whitney Canada, Inc.	PW305A PW305B PW306A PW306C PW306D PW306D1 PW307A PW307D PW308C PW500 Series PW530A PW535E1 PW535A,B,E PW545A,B,C PW615F PW615F-A PW617F-E PW617F1-E APS 2300	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
General Electric	CF-34-1 and 3 Series CF34-10E7 CF34-10E6 CF34-10E6A1 CF34-10E5 CF34-10E5A1 CF34-10E7-B CFE738 CFE738-1-1B	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.



Powerplant (Continued)

Manufacturer	Make / Model	Limitations
Rolls Royce	TAY Mark 611-8C TAY Mark 611-8 AE3007C, C1, C2 AE3007A1/1 AE3007A1P AE3007A3 AE3007A2 AE3007A AE3007A1/2 AE3007A1/3 AE3007A1E AE3007A1 BR700-725A1-12 BR700-710A1-10 BR700-710A2-20 BR700-710D5-21 BR700-710C4-11 BR700-725A1-12 SPEY 511-8	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
Hamilton Sundstrand	T-62T-20G-10C3/4 T-62T-40C11 T62T-40C14 T-206-10C3 T-206-10C3A 62T-40C3A T62T-39 Series T62T40C3A1 T62T40C3C9 T62T40C7A T62T40C7A T62T40C7A1 T62T40C7D T62T40C7D1 T62T40C8D1 T62T40C14	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
Avco Lycoming	ALF-502L ALF502L-2	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
Safran	SPU300 (BA)	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.

### Instruments and Radio

Component	Make / Model	Limitations
Transponders	Honeywell MST-67A Honeywell XS-850A Honeywell XS-852 Honeywell XS-857A Honeywell XS-858B Collins Aerospace TDR-90 Collins Aerospace TDR-94 Collins Aerospace TDR-94D Collins Aerospace TSS-4100 Garmin GTX-33 Garmin GTX-33ES Garmin GTX-33D Garmin GTX-330 Garmin GTX-3000 Bendix King KT 76A Bendix King KT-74 Bendix King MST-67A Bendix King MST-70B (NXT-700) ACSS NXT-600	Air data Computer Systems, Standby Altimeters, Mode S Transponders, Signal Interface Adapters, Micro Air Data Computer Systems, VHF Comms, Perform test and inspections of each altimeter, static pressure system and automatic altitude reporting equipment IAW CFR Part 43, Appx. E & F.
Air Data	Honeywell AZ-242 Honeywell AZ-800 Honeywell AZ850 Honeywell AZ-950 Honeywell AZ-960 Collins Aerospace ADC-85 Collins Aerospace ADC-850 Collins Aerospace ADC-3000 Bendix King KDC-481 Garmin GDC-74A Garmin GDC-74B	
Altimeter	Honeywell AM-250(ADDU) IS&S Air Data Display Unit Rockwell Collins ALI-80A	
Integrated Flight Suites	Honeywell Primus Apex Honeywell Primus Elite Honeywell Primus Epic Honeywell Primus 1000 Honeywell Primus 2000 Honeywell SPZ-500 Honeywell SPZ-600 Honeywell SPZ-8000 Collins Aerospace ProLine IV Collins Aerospace ProLine 21 Collins Aerospace Pro Line Fusion Garmin G1000 Garmin G3000 Garmin G5000	



### Landing Gear Components (Wheel Assembly)

Manufacture	Part Number	Description	Limitations
Aircraft Braking System	5011740 series 5009029 5009029-1	Wheel Assembly	Limited to maintenance, preventative maintenance and alterations
Goodrich	3-1481 series 3-1527 3-1527-1 3-1527-2TI 3-1609-1 3-1545-1	Wheel Assembly	
Goodrich	3-1341-1 series 3-1543 (1) series	Wheel Assembly	
Safran	C20180410 series	Wheel Assembly	
Meggitt	90006966 DAP00098-01 DAP00098-02 (DAP00098 Series) 9544207 5009029, 5009029-1	Wheel Assembly	

### Landing Gear Components

Manufacture	Part Number	Description	Limitations
EMB-500 Phenom 100	2310-2000-XXX	MLG Shock Strut	Limited to maintenance, preventative maintenance and alterations
	2136-1000-XXX	MLG Locking Actuator	
	2310-4000-XXX	MLG Shock Absorber	
	2310-1000 2310-5000	NLG Shock Strut	
	2310-1700-XXX	NLG Locking Stay	
	2310-1400-XXX	NLG Drag Brace	
EMB-505 Phenom 300	2317-1100-XXX	MLG Shock Strut	Limited to Seal and Outer Bearing Replacement Only
	2117-3000-XXX	MLG Locking Actuator	
	2317-3000-XXX	MLG Shock Absorber	
	2317-5100-XXX	NLG Shock Strut	
	2317-6500-XXX	NLG Locking Stay	
	2317-6000-XXX	NLG Drag Brace	
Cessna	6541425-13	MLG Shock Absorber	Limited to Seal and Outer Bearing Replacement Only
Cessna	2-1601-1	M.L.G. Brake Assy.	Limited to Axle Bore Repair: CMM: 32-46-49 Sub Task 32-46-49-300-008-A1
Cessna	6541520-5	M.L.G. Strut Assy.	Limited to Reseal & Repaint

### Landing Gear Components (Continued)

Manufacture	Part Number	Description	Limitations
EMB-500 Phenom 100	2310-3000-402	R/H MLG Trailing Arm	Limited to maintenance, preventative maintenance and alterations
	2310-3000-401	L/H MLG Trailing Arm	
	2310-1100-403	NLG Shock Absorber	
EMB-505 Phenom 300	2317-1500-406	R/H MLG Trailing Arm	
	2317-1500-405	L/H MLG Trailing Arm	
	2317-5170-403	NLG Shock Absorber	
EMB-505 Phenom 300	2216-0001-401	Parking Brake Valve Shutoff Valve	
EMB-505 Phenom 300	2617-1000-401	MLG Up-Lock	

### Accessories (Batteries)

Manufacture	Part Number	Description	Limitations
Concorde Battery Corp.	RG Series	Sealed Lead Acid Batteries	Limited to maintenance, preventative maintenance and alterations
L3 Harris	PS-835	Emergency Power Supply Batteries	
Honeywell	60-1321	Emergency Power Supply Batteries	
Gill	PN 7639 series PN 7025 series PN 7035 series PN 7242 series PN 7243 series PN 7246 series PN 7407 series PN 7649 series PN 7638 series	Sealed Lead Acid Batteries	
Saft	5317CH-1 267CH-7 257CH-9 1756-3 427CK-1 4078-14	Nickel-Cadmium (NiCad) Batteries	
Hawker	Hawker Valve Regulated Sealed Lead Acid Batteries	Sealed Lead Acid Batteries	
Marathon Norco	32348-001(ATSP-900L-1)	Nickel-Cadmium	
Radiant Power Corp.	RPS1-B (8ES455070-00) 640-13595-00 (7450LS-00)	Nickel-Cadmium	
Acme Aerospace	404BA101-2	Nickel-Cadmium	

### Accessories (Electronics)

Manufacture	Part Number	Description	Limitations
Honeywell	996-G7000-XXX,996-G7100-XXX, 996-G7000A-XXX	C-Series PCU	Limited to maintenance, preventative maintenance and alterations

### Accessories (Hydraulics)

Manufacture	Part Number	Description	Limitations
Bombardier	600-75142-X	Flutter Damper	Refilling ONLY

## General Repair Station Needs Assessment Form WSAF 1199

### General Repair Station Needs Assessment Form WSAF 1199 - Instructions for Completion

- A. The purpose of this form is to evaluate all the primary aspects of being able to support and return to service Products or Articles. This form will be completed prior to submitting an application to revise WSA's Operational Specifications.
- B. This form will be completed by the Accountable Manager.
- C. Needs Assessment For - Check the Applicable Box:
  - 1. Airframe.
  - 2. Engine.
  - 3. Component.
  - 4. Process/Procedure.
  - 5. Specialized Tooling.
- D. Model or P/N - List one or a combination of the following:
  - 1. Product and/or Article Name.
  - 2. Applicable Part Number.
  - 3. Process/Procedure Document Number.
- E. Determine that the Repair Station meets the following minimum requirements:
  - 1. Applicable Training.
  - 2. Current Technical Data.
  - 3. Adequate Facilities.
  - 4. Adequate Tooling.
- F. Signed by the Accountable Manager.

### Example of form follows



### GENERAL REPAIR STATION NEEDS ASSESSMENT

NEEDS ASSESSMENT FOR:

Airframe:  Engine:  Component:  Process/Procedure:  Specialized Tooling:

Model or P/N: \_\_\_\_\_

DOES THE REPAIR STATION HAVE THE FOLLOWING IN PLACE IN ORDER TO WORK AND RETURN TO SERVICE THE ABOVE STATED PRODUCT OR ARTICLE?

TRAINING: \_\_\_\_\_

TECHNICAL DATA: \_\_\_\_\_

FACILITIES: \_\_\_\_\_

TOOLING: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

QUALITY ASSURANCE MANAGER Print: \_\_\_\_\_  
Sign: \_\_\_\_\_