

AvDyne AeroServices  
1 Aaronson Drive, BWI Airport  
Baltimore, MD 21240  
(410) 859-3917

**Standard Annual Checklist :**

**AIRCRAFT GENERAL STATUS**

ATA-0400 100 Hour & annual inspection.  
ATA-0510 Time & calendar limits.  
ATA-0520 Maintenance checks.  
ATA-0550 Airworthiness directives.  
ATA-0560 Service bulletins.  
Research by (\_\_\_\_\_)

ATA-0565 Service letters.  
ATA-0570 Service instructions.  
ATA-0580 Pitot & static.  
ATA-3505 Oxygen bottle hydro test.

**INSPECTION PREPARATIONS**

1. Clean aircraft as required for inspection.
2. Perform maintenance run-up, record, enter discrepancies.
3. Protect aircraft finish, upholstery and trim as required.
4. Note location of all personal effects and loose equipment, box, identify and store.
5. Remove / open all necessary access doors, panels, fairings & retaining attach hardware with each item and store in orderly manner.

Completed by (\_\_\_\_\_)

**PRELIMINARY INSPECTION / CONSIDERATIONS**

1. Remove and ship out items requiring outside repairs & service.

Completed by (\_\_\_\_\_ ) Insp. (\_\_\_\_\_)

**GROUND SUPPORT / HANDLING**

ATA-0700 Hoisting fittings.  
ATA-0710 Jack points.  
ATA-0820 Leveling & weighing.  
Researched by (\_\_\_\_\_)

ATA-0910 Towing.  
ATA-1010 Mooring fittings.  
ATA-1025 Assist steps, handles & wing walks.

**PLACARDS / MARKINGS / EXTERIOR FINISH**

ATA-1110 Exterior finish / N# markings.  
ATA-1120 Exterior placards.  
ATA-1130 Interior placards.  
ATA-1150 Radio call placard.  
Completed by (\_\_\_\_\_ ) Insp. (\_\_\_\_\_)

ATA-1160 Instrument range.  
ATA-1165 Flight limitations placards.  
ATA-1170 Exterior identification plate.

**DOCUMENTS**

1. Airworthiness certificate.
2. FAA aircraft registration.
3. Radio station license (International Ops).
4. State registration.
5. Flight & owner's manuals & pilot operating hand book.
6. Check list & passenger briefing cards.
7. Equipment List & weight & balance.

Completed by (\_\_\_\_\_ ) Insp. (\_\_\_\_\_)

## DOORS / WINDOWS / CANOPY

ATA-5210 Passenger & crew doors.  
ATA-5211 Canopy.  
ATA-5220 Emergency exits.  
ATA-5230 Cargo & baggage doors.  
ATA-5235 Nacelle & wing locker doors.  
ATA-5240 Service doors.  
ATA-5250 Cabin dividers, curtains & doors.  
ATA-5260 Entrance stairs.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

ATA-5270 Door warning & flap lock out.  
ATA-5280 Landing gear doors.  
ATA-5290 Inspection & access panels.  
ATA-5610 Windshield & Canopy.  
ATA-5620 Passenger compartment window.  
ATA-5630 Door windows.  
ATA-5645 Sky light / Observation /Camera hole.

## EQUIPMENT / FURNISHINGS

ATA-2510- Flight compartment.  
ATA-2520- Passenger compartment.  
ATA-2550- Baggage compartments.  
ATA-2562- ELT functional check, Bat due (\_\_\_\_).  
ATA-2563- Parachutes.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

ATA-2571- Battery box, rack, vent, sump & drain.  
ATA-2575- Seats safety restraints, mfr date (\_\_\_\_).  
ATA-2580- Thermal & noise insulation.  
ATA-3830- Relief tube.

## SYSTEMS

### CABIN ENVIRONMENTAL

ATA-2120 Air distribution system.  
ATA-2121 Air distribution fan.  
ATA-2130 Cabin pressure control system.  
ATA-2131 Cabin pressure controller.  
ATA-2132 Cabin pressure indicator.  
ATA-2133 Outflow, safety & Dump valves.  
ATA-2135 Pressurized fuselage drain valves.  
ATA-2136 Pressurization seals, boots & gaskets.  
ATA-2140 Heating system.  
ATA-2150 Cabin cooling (air conditioning), check service compressor oil each 24 months. Service refrigerate as required.  
ATA-2160 Cabin temperature control system.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

### AUTO FLIGHT

ATA-2210 Autopilot system.  
ATA-2211 Autopilot computer.  
ATA-2212 Altitude controller.  
ATA-2213 Flight controller.  
ATA-2214 Autopilot trim indicator.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

ATA-2215 Autopilot main servo.  
ATA-2216 Autopilot trim servo.  
ATA-2250 Electric trim.  
ATA-2255 Yaw damper.

### COMMUNICATIONS

ATA-2310 Communications radios & PTT switches.  
ATA-2330 Entertainment.  
ATA-2340 Inter phone & PA.  
ATA-2350 Mic-Phone jacks & cabin speaker.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

ATA-2360 Static discharging.  
ATA-2365 Bonding & shielding.  
ATA-2370 Audio & video monitoring.  
ATA-2390 Communications antennas.

**ELECTRICAL**

- ATA-2432 Batterys, date installed ( ) Load test, holds ( ) volts @ ( ) amps.
- ATA-2433 Emergency power & fields.
- ATA-2436 Regulators & vottage controls.
- ATA-2437 Indicating.
- ATA-2440 External power.
- ATA-2460 DC electrical power distribution.
- ATA-2465 Circuit protection.
- ATA-2470 Bonding and shielding.
- Completed by ( ) Insp. ( )

**FIRE PROTECTION**

- ATA-2610 Detection system.
- ATA-2620 Extinguishing system.
- Completed by ( ) Insp. ( )
- ATA-2621 Fire bottle, fixed.
- ATA-2622 Portable fire extinguisher.

**FLIGHT CONTROL**

- ATA-2701 Control column, brake & steering.
- ATA-2710 Aileron control system.
- ATA-2711 Aileron trim control system.
- ATA-2720 Rudder control system.
- ATA-2721 Rudder trim control system.
- ATA-2725 Ruddervator control system.
- ATA-2727 Ruddervator trim control system.
- ATA-2730 Elevator control system.
- ATA-2731 Elevator trim control system..
- ATA-2735 Stabilator control system.
- ATA-2737 Stabilator trim control system.
- ATA-2740 Adjustable stabilizer control system.
- Completed by ( ) Insp. ( )
- ATA-2741 Stabilizer trim position indication.
- ATA-2742 Stabilizer actuator.
- ATA-2750 Flap control system.
- ATA-2751 Flap position indicating system.
- ATA-2752 Flap actuator.
- ATA-2760 Spoilers & speed brakes system.
- ATA-2761 Spoilers & speed brakes actuator.
- ATA-2770 Gust lock.
- ATA-2780 STOL devices & control system.
- ATA-2790 Surface control gap seals.
- ATA-2795 Boundary layer control & vortex generators.

**FLIGHT CONTROL SURFACE TRAVELS / CABLE TENSIONS**

Readings	Travel Spec.	Actual	Tension Spec.	Actual
Aileron				
Aileron Trim Tabs				
Rudder				
Rudder Trim Tab				
Elevator / Stabilator				
Elev / Stab Tabs				
Flap				
Control Column				

Completed by ( ) Insp.( )

**FUEL**

- ATA-2805 Fuel caps & seals.
- ATA-2810 Fuel storage.
- ATA-2812 Sump drains.
- ATA-2815 Fuel venting & vapor return check valves.
- ATA-2820 Fuel distribution hoses.
- ATA-2821 Fuel filter & strainer.
- ATA-2822 Fuel boost & Aux. pumps.
- Completed by ( ) Insp.( )
- ATA-2823 Fuel selector, shutoff valve & drain.
- ATA-2824 Fuel transfer valves & pumps.
- ATA-2840 Exterior fuel indicating.
- ATA-2841 Fuel quantity indicator.
- ATA-2842 Fuel quantity sensor & transmitter.
- ATA-2844 Fuel press indicators & transducers.

**HYDRAULIC**

ATA-2910 Hydraulic distribution & hoses.  
 ATA-2911 Hydraulic accumulator.  
 ATA-2912 Hydraulic filter.  
 ATA-2913 Hydraulic pump (electrical driven).  
 ATA-2914 Standby & manual hydraulic pump.  
 Completed by ( ) Insp. ( )

ATA-2915 Hydraulic pressure relief valve.  
 ATA-2916 Hydraulic reservoir & venting.  
 ATA-2917 Hydraulic pressure regulator.  
 ATA-2931 Hydraulic pressure indicator.  
 ATA-2933 Hydraulic quantity indicator.

**ICE & RAIN PROTECTION**

ATA-3010 Airfoil anti & de-ice system.  
 ATA-3020 Air intake anti & de-ice system.  
 ATA-3025 Lift detector heat.  
 ATA-3030 Pitot & Static anti ice system.  
 Completed by ( ) Insp. ( )

ATA-3040 Windshield anti ice & de-ice.  
 ATA-3060 Prop anti-ice & de-ice system.  
 ATA-3075 Fuel vent heaters & ice protection.

**INSTRUMENTS**

ATA-3110 Instrument & control panels.  
 ATA-3120 Independent instruments (clock, etc).  
 Completed by ( ) Insp. ( )

ATA-3130 Data recorder (hour meter).  
 ATA-3150 Central warning & Annunciator.

**LANDING GEAR**

ATA-3201 Wheel fairings, fenders & mud scrapers.  
 ATA-3211 Main landing gear attach.  
 ATA-3213 MLG strut, axle & torque links.  
 ATA-3220 Nose & tail landing gear.  
 ATA-3221 Nose & tail landing gear attachments.  
 ATA-3222 Nose & tail struts, axles & torque links.  
 ATA-3230 Retract & extension system / hoses.  
 ATA-3231 LG door actuating system / hoses  
 ATA-3232 LG door actuators.  
 ATA-3233 LG actuator switches & air speed switch.  
 ATA-3234 Landing gear selector.  
 ATA-3235 Emergency extension & blow down.  
 Completed by ( ) Insp. ( )

ATA-3240 Land gear brake system & hoses  
 ATA-3242 Brakes.  
 ATA-3243 Master cylinders & Anchors.  
 ATA-3244 Tires, ply spec nose ( ) main ( ).  
 ATA-3245 Tubes.  
 ATA-3246 Wheels, alignment & balance.  
 ATA-3250 LG steering system, lock & stops.  
 ATA-3252 Shimmy damper.  
 ATA-3260 Position, warning & safety squat.  
 ATA-3270 Tail skid.

**LANDING GEAR SPECS / DIMENSIONS**

Limits	Specification / Limits			Actual Measurement		
	N#	R#	L#	N#	R#	L#
Min shock disc Clearance	N#	R#	L#	N#	R#	L#
Up lock cable tension	N#	R#	L#	N#	R#	L#
Down lock over center	N#	R#	L#	N#	R#	L#
Down lock clearance	N#	R#	L#	N#	R#	L#
Up lock clearance	N#	R#	L#	N#	R#	L#
Actuator cushion	UP#		DN#	UP#		DN#
Min brake disc thickness	LEFT#		RIGHT#	LEFT#		RIGHT#

Completed by ( ) Insp. ( )

**LIGHTING**

ATA-3305 Instrument & avionics lighting.  
 ATA-3310 Flight compartment lighting.  
 ATA-3315 Map lights.  
 ATA-3320 Passenger & Courtesy lighting.  
 Completed by ( ) Insp. ( )

ATA-3330 Baggage compartment lighting.  
 ATA-3340 Nav, landing, taxi & wing lights.  
 ATA-3345 Anti collision (beacons & strobes).  
 ATA-3350 Emergency lighting.

## NAVIGATION

ATA-3411 Pitot & static system.  
ATA-3412 OAT indicator & sensor.  
ATA-3413 Rate of climb indicator.  
ATA-3414 Airspeed indicator.  
ATA-3416 Altimeter & encoder.  
ATA-3418 Stall warning system.  
ATA-3421 Attitude gyro.  
ATA-3422 Directional gyro & HSI.  
ATA-3423 Compass, RMI & deviation card.  
ATA-3424 Turn & bank / Rate of turn indicator.  
ATA-3425 Flight director.  
ATA-3431 Localizer.  
ATA-3432 Glide slope.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## Oxygen

ATA-3500 Oxygen system.  
ATA-3505 Oxygen bottles.  
ATA-3515 Oxygen generators.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## PNEUMATIC

ATA-3606 Stand-by systems.  
ATA-3610 Distribution, manifolds & hoses.  
ATA-3650 Primary filtration.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## VACUUM

ATA-3706 Stand-by systems (non-induction).  
ATA-3710 Distribution, manifolds & hoses.  
ATA-3720 Vacuum indicating system.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## ENGINE CONTROLS

ATA-7601 Prop synchronizing.  
ATA-7602 Mixture control.  
ATA-7603 Throttle control.  
ATA-7604 Prop governor control.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## ENGINE INDICATING

ATA-7713 Manifold pressure, hoses & vacuum break.  
ATA-7714 Tachometer.  
ATA-7719 Oil pressure & hoses.  
ATA-7720 Oil temperature.  
ATA-7721 Cylinder head temperature.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## STRUCTURAL INSPECTION

ATA-5110 Posture & symmetry.  
ATA-5115 Structural integrity.  
ATA-5140 Attach fasteners.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

ATA-3434 Marker beacon.  
ATA-3442 Weather radar system.  
ATA-3444 Ground proximity system.  
ATA-3446 Non radar weather system.  
ATA-3451 DME / TACAN.  
ATA-3452 Transponder.  
ATA-3453 Loran / data base.  
ATA-3454 VOR.  
ATA-3455 ADF.  
ATA-3457 GPS positioning system & data base.  
ATA-3460 Moving map & data base.  
ATA-3470 Navigation & transponder antenna.

ATA-3525 Oxygen mask & hoses.  
ATA-3530 Portable oxygen system.

ATA-3620 Pneumatic indicating system.  
ATA-3615 Regulating valves & check valves.

ATA-3730 Relief valve, filtration & check valves.  
ATA-3740 Primary filtration.

ATA-7605 Alternate, ram air & carburetor heat.  
ATA-7606 Turbo waste gate (Non automatic).  
ATA-7607 Cowl flap control.

ATA-7722 Exhaust & turbine inlet temp.  
ATA-7723 Carburetor air, CDT & intercooler temp.  
ATA-7728 Fuel pressure, flow indicating & hoses.  
ATA-7740 Engine analyzer & graphic monitor.  
ATA-7745 Engine thrust detector system.

ATA-5160 Control surface balancing.  
ATA-5180 Electrical bonding.

## FUSELAGE STRUCTURE

ATA-5300 Fuselage structures.  
ATA-5301 Aerial tow equipment.  
ATA-5330 Fuselage skin & drain holes.  
ATA-5340 Fuselage main attach fittings.  
ATA-5341 Wing attach fittings (on fuselage).  
ATA-5343 Ldg gear attach fittings & wheel wells.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## NACELLE & PYLONS

ATA-5400 Nacelle & pylon structure.  
ATA-5414 Nacelle & pylon skin.  
Completed by (\_\_\_\_\_) Insp.(\_\_\_\_\_)

## STABILIZERS

ATA-5510 Horizontal, vertical, canards & stabilators.  
ATA-5512 Horiz., vert, canards & stab (skin, tips & boots).  
ATA-5513 Horiz stab, vert, canards & stab (tabs & fairing).  
ATA-5520 Elevator structure.  
ATA-5522 Elevator, skin & tips.  
ATA-5523 Elevator trim & servo tab structure.  
ATA-5330 Vertical stabilizer structure.  
ATA-5532 Vertical stabilizer, skin & caps.  
ATA-5540 Rudder or ruddervator structure.  
Completed by (\_\_\_\_\_) Insp.( \_\_\_\_\_)

## WINGS

ATA-5700 Wing structure.  
ATA-5725 Wing struts & brace wires.  
ATA-5726 Wing tips & wing lets.  
ATA-5730 Wing skin.  
ATA-5735 Wing fairings.  
ATA-5740 Wing attach fittings.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## SERVICING

ATA-1200 Cleaning.  
ATA-1210 Fuel servicing.  
ATA-1230 De-ice & anti ice fluid.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## HYDRAULICS (Mil H-5606)

ATA-1250 Brake hydraulic reservoir.  
ATA-1252 Steering shimmy dampener.  
ATA-1254 Landing gear struts.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

## AIR & NITROGEN

ATA-1275 Tire service mains & nose.  
ATA-1285 Hydraulic accumulator.  
ATA-1280 Land gear strut mains & nose.  
ATA-1290 Landing gear emergency blow down.  
Completed by (\_\_\_\_\_) Insp. (\_\_\_\_\_)

ATA-5344 Fuselage door hinges.  
ATA-5345 Fuselage equipment attach fittings.  
ATA-5346 Power plant attach fittings.  
ATA-5342 Stabilizer attach fittings.  
ATA-5347 Seat & cargo attach fittings.  
ATA-5350 Fuselage aerodynamic fairings.

ATA-5415 Attach fittings (nacelle / pylon).

ATA-5542 Rudder or ruddervator skin & caps.  
ATA-5543 Rudder, elevator trim & servo tab structure.  
ATA-5550 Empennage Flight Control attach fittings.  
ATA-5551 Horizontal or V tail stabilizer attach fittings.  
ATA-5552 Elevator & trim tab attach fittings.  
ATA-5553 Vertical stabilizer attach fittings.  
ATA-5554 Rudder & trim tab attach fittings.

ATA-5744 Control surface attach fittings.  
ATA-5751 Aileron structure & skin.  
ATA-5752 Aileron trim & servo tab structure.  
ATA-5753 Flap structure & skin.  
ATA-5755 Spoiler & speed brake structure.

ATA-1235 Oxygen.  
ATA-1240 Aircraft lubrication.

ATA-1256 Main hydraulic & gear reservoirs.  
ATA-1258 Flap hydraulic reservoir.  
ATA-1259 Air conditioning hydraulic drive.

FINAL	SIGNATURE
Items not covered by "Check List"	(_____)
Correct any discrepancies	(_____)
Pressure inspect engine fuel system	(_____)
Pre Cowl, inspection completed	(_____)
Complete documentation	(_____)
Clean, cowl, close up	(_____)
Cowling inspection	(_____)
Post inspection run-up	(_____)
Set clocks to correct time	(_____)
Flight check if required	(_____)
Clean aircraft / interior	(_____)
Date Completed	(_____)
AMT Signature	(_____)
Inspector	(_____)

**Note: This check list does not supersede Manufacture's publications!**