



AIRWORTHINESS DIRECTIVES

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- Identify a known safety deficiency in certified aircraft
 - Apply to airframes, aircraft engines, propellers, and any installed components, equipment, or avionics
 - Require deficiencies be safety compliant before the affected aircraft is returned to service
 - Render an aircraft unairworthy when not corrected by the required date
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Airworthiness Directives are available to aircraft owners, operators, and mechanics from many commercial aircraft manufacturers, vendors, and the FAA.

DON'T FORGET to meet compliance standards for any aftermarket accessories and nonstandard equipment.

For Other Important Safety Information
Visit the Maintenance Hangar at FAASafety.gov



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FAASTips

The Safety Tipping Point

REMEMBER

Safety in the air starts on the ground



Follow Approved Data

faasafety.gov

the Aviation Safety Source

Register and join the AMT & Wings Program

Your safety and the safety of your passengers depends on it.

INSPECTION Best Practices



RESEARCH

- Obtain current aircraft discrepancies and query operator for anomalies or unusual trends
- Obtain aircraft records (log books)
- Review records for aircraft/engine/prop/accessories P/N, S/N, TT, TSMOH
- Review records for installed STC's/Major Repairs/Major Alterations
- Obtain applicable TCDS/Specifications, 337s and STC paperwork to include ICAs
- Review applicable Time Limitations and/or overhaul requirements
- Generate AD listing for aircraft model, series, and all components
- Review SDR database and manufacturer's service info
- Identify/verify current inspection program in records

PLANNING

- Develop/obtain applicable regulatory Inspection Checklist to include ICA requirements
- Develop/obtain detailed Pre/Post Inspection Run-up Checklists
- Obtain required Inspection tools/special inspection tools
- Obtain required appropriate and current technical data
- Obtain adequate facilities to conduct the inspection
- Review FAA Team Risk/Hazard Identifier and Personal Minimums Checklist - Before the Task

CONFORMITY

- Installed components match records and Form 337s
- Installed components eligible by certification TCDS/Specifications/STC/Field Approval
- Installed STCs, Major Repairs/Alterations, Field Approvals conform to approved data

- Verify the compliance status of all applicable Airworthiness Directives
- Correct POH/AFM, weight & balance records, placards, instrument markings
- Check for undocumented repairs and alterations

PERFORMANCE OF INSPECTION

- Complete and document Pre-inspection Performance Run parameters
- Identify, segregate, and protect removed parts
- Comply with new and recurring ADs
- Follow and annotate inspection checklist as task is completed
- Practice proper tool control during and after inspection
- Maintain proper environmental controls and safety
- Conduct a detailed and complete work flow/shift change turnover briefing as required
- Document all discrepancies
- Review FAA Team Personal Minimums Checklist - After the Task

RETURN TO SERVICE

- Required maintenance performed and discrepancies properly addressed
- Post-inspection Performance Run completed
- Proper leak checks as required
- Proper, legible, complete record entries w/times and/or cycles as required
- Submit Malfunction and Defect Reports as required
- Notify operator of flight check requirements if applicable

Visit the Maintenance Hangar at
www.FAASafety.Gov



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Go to Maintenance Hangar on **FAASafety.gov** for

- ◆ **Awards Programs**
 - Automated AMT Awards Program
 - Charles Taylor “Master Mechanic” Program
 - Charles Taylor “Master Mechanic” Role of Honor
- ◆ **IA Refresher Training Courses and Providers**
- ◆ **Online Maintenance Resources**
 - Events
 - Tools and Training Courses
 - Maintenance Safety Tips
 - *Nuts and Bolts* Newsletter