

### INSPECTION DOCUMENT 13

Date:	_____
Registration Number:	_____
Serial Number:	_____
Total Time:	_____

#### 1. Description

- A. Inspection Document 13 gives a list of item(s), which are completed at the first 20,000 hours and every 5000 hours thereafter.
- B. Inspection items are given in the sequence of the zone in which the inspection is completed. A description of the inspection, as well as the Item Code Number are supplied for cross-reference to section 5-10-01. Frequently, tasks give more information about each inspection. These tasks are found in the individual chapters of this manual.
- C. The right portion of each page gives space for the mechanic's and inspector's initials and remarks. You can use copies of these pages as a checklist while you complete the tasks in this Inspection Document.

#### 2. General Inspection Criteria

- A. As you complete each of the inspection tasks in this Inspection Document, examine the adjacent area while access is available to find conditions that need more maintenance.
- B. If it is necessary to replace a component or to make a change to a system while you complete a task, do the task again before the system or component is returned to service.
- C. Inspection Kits are available for some Inspection Documents. They supply consumable materials used to complete the inspection item(s) given for the interval. Refer to the Model 208 Illustrated Parts Catalog, Introduction, Service Kit List to find applicable part numbers.

ITEM CODE NUMBER	TASK	ZONE	MECH	IN-SP	REMARKS
A531008	Fuselage Engine Mount Fittings Special Detailed Inspection (SID 53-10-01) Task 53-10-00-250	121 122 130			
A532008	Firewall Brace and Doubler Assemblies Detailed Inspection (SID 53-20-11) Task 53-10-00-223	121 122 130			
A532009	Carry-Through Root Rib Detailed Inspection (SID 53-20-08) Task 53-10-00-220	251 252 500 600			
A532011	Crew Door Frames Detailed Inspection (SID 53-20-09) Task 53-10-00-221	231 232 233 234 801 802			

ITEM CODE NUMBER	TASK	ZONE	MECH	IN-SP	REMARKS
A532012	Passenger and Cargo Door Frames Detailed Inspection (SID 53-20-10) Task 53-10-00-222	255 256 257 258 803 804			
A535001	Fuselage to Horizontal Stabilizer Attach Fittings Special Detailed Inspection (SID 53-50-01) Task 53-10-00-257	320 373 374			
A535002	Vertical Stabilizer Attach Points Special Detailed Inspection (Typical Inspection Compliance) (SID 53-50-02) Task 53-10-00-258	311 312 320 341			
A551003	Horizontal Stabilizer Forward and Aft Attach Points Special Detailed Inspection (SID 55-10-01) Task 55-10-00-250	373 374			
A553001	Vertical Stabilizer Spars Special Detailed Inspection (Typical Inspection Compliance) (SID 55-30-01) Task 55-30-00-250	320 341			
A553004	Horizontal Stabilizer Spars Special Detailed Inspection (Typical Inspection Compliance) (SID 55-10-02) Task 55-10-00-251	373 374			
A564002	Windshield and Attachment Structure Detailed Inspection (SID 56-30-01) Task 56-00-01-220	240			
A712003	Engine Truss and Ring Assembly Special Detailed Inspection (SID 71-20-01) Task 71-20-00-240	130			
*** End of Inspection Document 13 Inspection Items ***					

## Task 53-10-00-220

### 7. Carry-Through Root Rib Detailed Inspection

#### A. General

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the carry-through root rib in a serviceable condition.

#### B. Special Tools

- (1) None

#### C. Access

- (1) Remove the wing from the airplane. Refer to Chapter 57, Wings - Removal/Installation.

#### D. Do a Carry-Through Root Rib Detailed Inspection.

- (1) Do a visual inspection of the root rib for cracks.
- (2) If no cracks are found, install the wing on the airplane. Refer to Chapter 57, Wings - Removal/Installation.
- (3) If cracks are found, repair or replace the root rib. Refer to Chapter 57, Wings - Removal/Installation or the Model 208 Structural Repair Manual.

#### E. Restore Access

- (1) Install the wing on the airplane. Refer to Chapter 57, Wings - Removal/Installation.

### End Task

### Task 53-10-00-221

#### 8. Crew Door Frames Detailed Inspection

##### A. General

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the crew door frames in a serviceable condition.

##### B. Special Tools

- (1) None

##### C. Access

- (1) Remove the left and the right crew door upper and lower interior panels. Refer to Crew Door - Maintenance Practices.

##### D. Do a visual inspection of the crew door frames for cracks. Refer to Chapter 52, Crew Doors - Maintenance Practices.

- (1) With the crew doors open, examine the corners and around the jamb assembly and the area around the hinges for cracks, corrosion or damage.
  - (a) Replace the jamb assembly if cracks or damage are found. Refer to Chapter 52, Crew Doors - Maintenance Practices.
  - (b) If corrosion is found, refer to Chapter 51, Corrosion Prevention and Control Program - Description and Operation.
- (2) Examine all exposed frame areas for cracks.
- (3) If cracks are found, repair or replace the damaged part(s). Refer to Chapter 52, Crew Doors - Maintenance Practices.

##### E. Restore Access

- (1) Install the left and the right crew door upper and lower interior panels. Refer to Crew Door - Maintenance Practices.

#### End Task

**Task 53-10-00-222**

**9. Passenger and Cargo Door Frames Detailed Inspection**

**A. General**

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the passenger and cargo door frames in a serviceable condition.

**B. Special Tools**

- (1) None

**C. Access**

- (1) Open the passenger and cargo doors.

**D. Examine the Passenger and Cargo Door Frames.**

- (1) Do a visual inspection of the passenger door frames for cracks.
  - (a) If cracks are found, repair or replace the part(s). Refer to Chapter 52, Passenger Doors - Maintenance Practices.
  - (b) Examine the corners and around the jamb assembly for cracks or damage.
  - (c) Replace the jamb assembly if it is cracked or damaged. Refer to Chapter 52, Passenger Doors - Maintenance Practices.
- (2) Do a visual inspection of the cargo door frames for cracks.
  - (a) If cracks are found, repair or replace the part(s). Refer to Chapter 52, Cargo Doors - Maintenance Practices.
  - (b) Examine the corners and hinge areas around the jamb assembly for cracks, corrosion or damage.
  - (c) Replace the jamb assembly if it is cracked or damaged. Refer to Chapter 52, Cargo Doors - Maintenance Practices.
  - (d) If corrosion is found, refer to Chapter 51, Corrosion Prevention and Control Program - Description and Operation.

**E. Restore Access**

- (1) Close the passenger and cargo doors.

**End Task**

### Task 53-10-00-223

#### 10. Firewall Brace and Doubler Assemblies Detailed Inspection

- A. General
  - (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the firewall brace and doubler assemblies in a serviceable condition.
- B. Special Tools
  - (1) None
- C. Access
  - (1) Remove the engine cowling to get access to the firewall engine mount assemblies. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.
- D. Examine the Firewall Brace and Doubler Assemblies.
  - (1) Do a visual inspection of the doubler and supports for cracks on the forward and the aft sides of the firewall.
    - (a) If cracks are found, repair or replace the part(s). Refer to Chapter 71, Engine Mount - Maintenance Practices and the Model 208 Structural Repair Manual.
  - (2) Do a visual inspection of the firewall brace and the adjacent web for cracks that come from the fastener holes on the forward and the aft sides of the firewall.
    - (a) If cracks are found, repair or replace the part(s). Refer to Chapter 71, Engine Mount - Maintenance Practices and the Model 208 Structural Repair Manual.
- E. Restore Access
  - (1) Install the engine cowling. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

#### End Task

### Task 53-10-00-250

#### 13. Fuselage Engine Mount Fittings Special Detailed Inspection

##### A. General

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the fuselage engine mount fittings in a serviceable condition.

##### B. Special Tools

- (1) None

##### C. Access

- (1) Remove the engine cowling. Refer to Engine Cowling and Nose Cap - Maintenance Practices.

##### D. Do a Special Detailed Inspection of the Fuselage Engine Mount Fittings.

- (1) Do a nondestructive testing (NDT) inspection of the four truss assembly attachment points. Refer to the Model 208 Nondestructive Testing Manual, Part 6, Eddy Current, Fuselage Engine Mount Fittings - Description And Operation.
- (2) Do a visual inspection of the gusset for cracks around the engine truss assembly attachment points.
- (3) Do a visual inspection of the flange rings for cracks.
- (4) Do an NDT inspection of the upper engine mount attachment. Refer to the Model 208 Nondestructive Testing Manual, Part 6, Eddy Current, Fuselage Engine Mount Fittings - Description And Operation.
- (5) If no cracks are found, restore access.
- (6) If cracks are found, repair or replace the damaged part(s). Refer to Chapter 71, Engine Mount - Maintenance Practices or the Model 208 Structural Repair Manual.

##### E. Restore Access

- (1) Install the engine cowling. Refer to Engine Cowling and Nose Cap - Maintenance Practices.

#### End Task

**Task 53-10-00-257**

**20. Fuselage to Horizontal Stabilizer Attach Fittings Special Detailed Inspection**

**A. General**

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the fuselage to horizontal stabilizer attach fittings in a serviceable condition.

**B. Special Tools**

- (1) None

**C. Access**

- (1) Remove the horizontal stabilizer. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation .

**D. Do a Special Detailed Inspection of the Fuselage to Horizontal Stabilizer Attach Fittings.**

- (1) Do a visual inspection for cracks in the forward side of the horizontal stabilizer forward attach fitting.
- (2) Do a nondestructive testing (NDT) inspection for cracks at the horizontal stabilizer forward attach fitting holes. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Fuselage to Horizontal Stabilizer Attach Fittings - Description And Operation.
- (3) Do a visual inspection for cracks in the fuselage side of the horizontal stabilizer aft attach fitting.
- (4) Do a NDT inspection for cracks at the horizontal stabilizer aft attach fitting holes. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Fuselage to Horizontal Stabilizer Attach Fittings - Description And Operation.
- (5) If no cracks are found, restore access.
- (6) If cracks are found, replace the damaged parts. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation.

**E. Restore Access**

- (1) Install the horizontal stabilizer. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation .

**End Task**



### Task 53-10-00-258

#### 21. Vertical Stabilizer Attach Points Special Detailed Inspection (Typical Inspection Compliance)

##### A. General

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the vertical stabilizer attach points in a serviceable condition.

##### B. Special Tools

- (1) None

##### C. Access

- (1) Remove the vertical stabilizer. Refer to Chapter 55, Vertical Stabilizer - Removal/Installation.

##### D. Do a Special Detailed Inspection of the Vertical Stabilizer Attach Points.

- (1) Do a visual inspection for cracks in the fuselage side of the vertical stabilizer forward attach point.
- (2) Do a nondestructive testing (NDT) inspection for cracks at the vertical stabilizer forward attach point holes. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Vertical Stabilizer Attach Points - Description And Operation.
- (3) Do a visual inspection for cracks in the fuselage side of the vertical stabilizer aft attach point.
- (4) Do a NDT inspection for cracks at the vertical stabilizer aft attach point holes. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Vertical Stabilizer Attach Points - Description And Operation.
- (5) If no cracks are found, restore access.
- (6) If cracks are found, replace the damaged parts or contact Cessna Propeller Aircraft Product Support for repair procedures. Refer to Chapter 55, Vertical Stabilizer - Removal/Installation.

##### E. Restore Access

- (1) Install the vertical stabilizer. Refer to Chapter 55, Vertical Stabilizer - Removal/Installation.

#### End Task

## Task 55-10-00-250

### 2. Horizontal Stabilizer Forward and Aft Attach Points Special Detailed Inspection

#### A. General

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the horizontal stabilizer forward and aft attach points in a serviceable condition.

#### B. Special Tools

- (1) None

#### C. Access

- (1) Remove the horizontal stabilizer. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation .

#### D. Do a Special Detailed Inspection of the Horizontal Stabilizer Forward and Aft Attach Points.

- (1) Do a visual inspection for cracks in the forward side of the horizontal stabilizer forward spar attach fitting.
- (2) Do a nondestructive testing (NDT) inspection for cracks in the horizontal stabilizer forward spar attach fitting. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Horizontal Stabilizer Forward and Aft Attach Points - Description And Operation.
- (3) Do a visual inspection for cracks in the forward side of the horizontal stabilizer aft spar attach fitting.
- (4) Do a NDT inspection for cracks in the horizontal stabilizer forward spar attach fitting. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Horizontal Stabilizer Forward and Aft Attach Points - Description And Operation.
- (5) If no cracks are found, restore access.
- (6) If cracks are found, replace the horizontal stabilizer attach fitting. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation.

#### E. Restore Access

- (1) Install the horizontal stabilizer. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation .

### End Task

### Task 55-10-00-251

#### 3. Horizontal Stabilizer Spars Special Detailed Inspection (Typical Inspection Compliance)

##### A. General

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the horizontal stabilizer spars in a serviceable condition.

##### B. Special Tools

- (1) None

##### C. Access

- (1) Remove the horizontal stabilizer. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation .

##### D. Do a Special Detailed Inspection of the Horizontal Stabilizer Forward Spar.

- (1) Do a visual inspection for cracks in the horizontal stabilizer forward spar upper cap.
- (2) Do a nondestructive testing (NDT) inspection for cracks in the horizontal stabilizer forward spar upper cap between SS 0.00 and SS 9.90. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Horizontal Stabilizer Spars - Description And Operation.
- (3) Do a visual inspection for cracks in the horizontal stabilizer forward spar lower cap.
- (4) Do a NDT inspection for cracks in the horizontal stabilizer forward spar lower cap between SS 0.00 and SS 9.90. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Horizontal Stabilizer Spars - Description And Operation.
  - (a) If cracks are found, contact Cessna Propeller Aircraft Product Support for repair procedures.
- (5) If no cracks are found, continue with the inspection.

##### E. Do a Special Detailed Inspection of the Horizontal Stabilizer Aft Spar.

- (1) Do a visual inspection for cracks in the horizontal stabilizer aft spar upper cap.
- (2) Do a NDT inspection for cracks in the horizontal stabilizer aft spar upper cap between SS 0.00 and SS 10.60. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Horizontal Stabilizer Spars - Description And Operation.
- (3) Do a visual inspection for cracks in the horizontal stabilizer aft spar lower cap.
- (4) Do a NDT inspection for cracks in the horizontal stabilizer aft spar lower cap between SS 0.00 and SS 10.60. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Horizontal Stabilizer Spars - Description And Operation.
  - (a) If cracks are found, contact Cessna Propeller Aircraft Product Support for repair procedures.
- (5) If no cracks are found, restore access.

##### F. Restore Access

- (1) Install the horizontal stabilizer. Refer to Chapter 55, Horizontal Stabilizer - Removal/Installation .

#### End Task

## Task 55-30-00-250

### 2. Vertical Stabilizer Spars Special Detailed Inspection (Typical Inspection Compliance)

#### A. General

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the vertical stabilizer spars in a serviceable condition.

#### B. Special Tools

- (1) None

#### C. Access

- (1) Remove the vertical stabilizer. Refer to Chapter 55, Vertical Stabilizer - Removal/Installation.

#### D. Do a Special Detailed Inspection of the Vertical Stabilizer Spars.

- (1) Do a visual inspection for cracks in the vertical stabilizer forward spar cap.
- (2) Do a nondestructive testing (NDT) inspection for cracks at the vertical stabilizer forward spar attach holes at WL 126.03. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Vertical Stabilizer Spars - Description And Operation.
- (3) Do a NDT inspection for cracks at the vertical stabilizer forward spar attach holes at WL 134.28. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Vertical Stabilizer Spars - Description And Operation.
- (4) Do a NDT inspection for cracks in the vertical stabilizer forward spar from WL 134.38 to WL 138.00. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Vertical Stabilizer Spars - Description And Operation.
- (5) Do a visual inspection for cracks in the vertical stabilizer aft spar cap.
- (6) Do a NDT inspection for cracks at the vertical stabilizer aft spar attach holes at WL 116.40. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Vertical Stabilizer Spars - Description And Operation.
- (7) Do a NDT inspection for cracks at the vertical stabilizer aft spar attach holes at WL 126.12. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Vertical Stabilizer Spars - Description And Operation.
- (8) Do a NDT inspection for cracks in the vertical stabilizer aft spar from WL 126.12 to WL 129.00. Refer to the Model 208 Nondestructive testing Manual, Part 6, Eddy Current Inspection, Vertical Stabilizer Spars - Description And Operation.
- (9) If no cracks are found, restore access.
- (10) If cracks are found, contact Cessna Propeller Aircraft Product Support for repair procedures.

#### E. Restore Access

- (1) Install the vertical stabilizer. Refer to Chapter 55, Vertical Stabilizer - Removal/Installation.

### End Task

## Task 56-00-01-220

### 2. Windshield and Attachment Structure Detailed Inspection

#### A. General

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the windshield and attachment structure in a serviceable condition.

#### B. Special Tools

- (1) None

#### C. Access

- (1) None

#### D. Do a Detailed Inspection of the Windshield and Attachment Structure.

- (1) Use the optical prism procedure to examine for cracks in the windshield that start at the fastener hole(s) and extend to the adjacent fastener holes into the window area that the operator views out of or the edge of the window. Refer to Windshield Functional Check in this section.
- (2) Do a visual inspection of the windshield retainer for cracks.
- (3) Do a visual inspection for cracks in the skin around the windshield.
- (4) Do a visual inspection of the door post for cracks out of the fastener holes.
- (5) If cracks are found, replace or repair the damaged part(s). Refer to Flight Compartment Windows - Removal/Installation or the Model 208 Structural Repair Manual.

#### E. Do a Detailed Inspection of the Cabin and Door Windows.

- (1) Do a visual inspection of the cabin and door window retainers and fasteners for cracks and corrosion.
- (2) If cracks are found, replace or repair the damaged part(s). Refer to Flight Compartment Windows - Removal/Installation or the Model 208 Structural Repair Manual.
- (3) If corrosion is found, repair or replace the damaged part(s). Refer to Chapter 51, Corrosion Prevention and Control Program - Description and Operation for more information.

#### F. Restore Access

- (1) None

### End Task

### Task 71-20-00-240

#### 3. Engine Truss and Ring Assembly Special Detailed Inspection

##### A. General

- (1) This task includes the Supplemental Inspection Document (SID) requirements necessary to keep the engine truss and ring assembly in a serviceable condition.

##### B. Special Tools

- (1) None

##### C. Access

- (1) Remove the engine cowling. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

##### D. Do a Special Detailed Inspection of the Engine Truss and Ring Assembly.

- (1) Do a nondestructive testing (NDT) inspection for cracks in the engine mount ring assembly. Refer to the Model 208 Nondestructive testing Manual, Part 8, Magnetic Particle, Engine Truss and Ring Assembly - Description And Operation.
- (2) Do a NDT inspection for cracks in the engine mount assembly at the engine mount ring assembly. Refer to the Model 208 Nondestructive testing Manual, Part 8, Magnetic Particle, Engine Truss and Ring Assembly - Description And Operation.
- (3) Do a NDT inspection for cracks in the engine mount assembly at the firewall attachments. Refer to the Model 208 Nondestructive testing Manual, Part 8, Magnetic Particle, Engine Truss and Ring Assembly - Description And Operation.
- (4) If no cracks are found, restore access.
- (5) If cracks are found, repair or replace the damaged part(s). Refer to Chapter 71, Engine Mount - Maintenance Practices or the Model 208 Structural Repair Manual.

##### E. Restore Access

- (1) Install the engine cowling. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

#### End Task