

TH-57 Preservation / Depreservation

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I-1. PRESERVATION FOR SHORT TERM STORAGE

1. If aircraft is out of flight status XX days, add the following procedures to coincide with manufacturers requirements.
2. Make appropriate engine and aircraft logbook entries when an aircraft is preserved or depreserved.

NOTE

VVL-800 must be used in lieu of WD-40.

I-2. GENERAL PREPARATION

1. Perform 7 and 14 day inspection.
2. Record the date, activity, "In Preservation" in TYPE PRESERVATION, "BHT-ALL-SPM/MED (TH57) -011" in REFERENCE, and represerve date due in the Aircraft Logbook using Preservation/Depreservation Record, OPNAV form 4790/136A.
3. Record the date, time since overhaul, total time, "In Preservation" in REMARKS, signature, and organization in the Engine Logbook INSPECTION-MAINTENANCE-OVERHAUL RECORD COMPRESSOR ASSEMBLY (Form 2784E-1 or approved substitute)
4. Record the date, time since overhaul, total time, "Engine preserved IAW Allison procedures" in REMARKS, signature, and organization in the following Engine Logbook sections: F.
 - a. INSPECTION-MAINTENANCE-OVERHAUL RECORD, GEARBOX ASSEMBLY (Form 2784C-1 or approved substitute) ;

- b. INSPECTION-MAINTENANCE-OVERHAUL RECORD, TURBINE ASSEMBLY (Form 2784D or approved substitute).

I-3 PRESERVATION

1. Engine and Power Train System.
 - a. Fill transmission gearbox and tail rotor gearbox as full as possible with lubricating oil (Exxon 2380). Do not install descant; do not use preservative; reinstall filler cap.
 - b. Flush engine fuel system with MIL-C-6081, Grade 1010 oil and tag engine with date of preservation and oil type used.
2. Rotors and Controls.
 - a. Lubricate (Shell G 395) swashplate duplex bearing in accordance with manufacturer's recommendation in four 90 degree positions.
 - b. Secure main and tail rotor blades.
3. Battery.
 - a. Disconnect, remove and store main and standby battery (TH-57C).
 - b. Vacuum the main battery compartment and clean using P-D-680.
 - c. Ensure vent hoses and clamps are serviceable and vents are free from obstruction.
 - d. Apply electrical tape to seal exterior compartment vent lines.
 - e. Inspect battery helix assembly for condition and corrosion. Clean as needed and apply corrosion, preventive compound (LPS 3, P/N 00316).

4. Landing Gear
 - a. Clean skid tubes and cross tubes and treat for corrosion in accordance with CSSD-PSE-87-001 (Bell Corrosion Control Manual).

5. Airframe

- a. Fold and tape lap belts and restraint harness in secure position.
- b. Remove first aid kit and place in proper storage.

If aircraft is already in preservation, no further action is required.

I-4. DEPRESERVATION AND ACTIVATION

1. Airframe

- a. Remove tape and position lap belts and restraint harness in flight ready position.
- b. Remove first aid kit from storage. Service and verify contents. Install in helicopter.
- c. Inspect fire extinguisher for proper charge.

2. Landing Gear

- a. Remove excess corrosion prevention compound using solvent 140.

3. Battery

- a. Remove tape from battery vent lines.
- b. Remove main and standby battery (TH-57C) from storage. Service and verify charge.
- c. Install in helicopter.

4. Power Train Assembly

- a. Service transmission and tail rotor gearbox to proper level.

5. Engine

- a. Flush fuel system with in accordance with Allison Operations and Maintenance Manual, 1OW2.
- b. Rinse the engine in accordance with Allison Operations and Maintenance Manual, 1OW2.

6. Miscellaneous

- a. Perform all required inspections.
- b. Record the date and activity returning the helicopter to service in the Aircraft Logbook using Preservation/Depreservation Record, OPNAV form 4790/136A.
- c. Record the date, time since overhaul, total time, "In Preservation" in REMARKS, signature, and organization in the Engine Logbook INSPECTION-MAINTENANCE-OVERHAUL RECORD. COMPRESSOR ASSEMBLY (Form 2784E-1 or approved substitute)
- d. Record the date, time since overhaul, total time, "Engine preserved IAW Allison procedures" in REMARKS, signature, and organization in the following Engine Logbook sections:
 - 1) INSPECTION-MAINTENANCE-OVERHAUL RECORD, GEARBOX ASSEMBLY (Form 2784C-1 or approved substitute) ;
 - 2) INSPECTION-MAINTENANCE-OVERHAUL RECORD, TURBINE ASSEMBLY (Form 2784D or approved substitute) ;

I-5. PRESERVATION FOR INTERMEDIATE STORAGE

1. If aircraft is out of flight status 14 days, add the following procedures to coincide with manufacturers requirements.
2. Make appropriate engine and aircraft logbook entries when an aircraft is preserved or depreserved.

NOTE

VVL-800 must be used in lieu of WD-40.

I-6. GENERAL PREPARATION

1. Perform 7 and 14 day inspection.
2. Record the date, activity, "In Preservation" in TYPE PRESERVATION, "BHT-ALL-SPM/MED (TH57) -011" in REFERENCE, and represerve date due in the Aircraft Logbook using Preservation/Depreservation Record, OPNAV form 4790/136A.
3. Record the date, time since overhaul, total time, "Engine preserved IAW RR procedures" in REMARKS, signature, and organization in the Engine Logbook section F.
 - a. INSPECTION-MAINTENANCE-OVERHAUL RECORD, GEARBOX ASSEMBLY (Form 2784C-1 or approved substitute) ;
 - b. INSPECTION-MAINTENANCE-OVERHAUL RECORD, TURBINE ASSEMBLY (Form 2784D or approved substitute).
 - c. INSPECTION-MAINTENANCE-OVERHAUL RECORD, COMPRESSOR ASSEMBLY (Form 2784B-1 or approved substitute).

I-7. PRESERVATION

1. Engine and Powertrain and Aircraft Fuel System
 - a. Fill transmission gearbox and tail rotor gearbox as full as possible with lubrication oil (Aeroshell 555). Do not install descant; do not use preservative; reinstall filler cap
 - b. Flush engine fuel system with MIL-C-6081, Grade 1010 oil and tag engine with date of preservation and oil type used.
2. Main Rotor and Controls
 - a. Lubricate (Shell G 395) swashplate duplex bearing in accordance with BHT-206A/B-SERIES-MM in four 90 degree positions.
 - b. Secure main and tail rotor blades.
 - c. Ensure that the aircraft fuel cells are completely filled with JP-8 fuel.
3. Battery
 - a. Disconnect, remove and store main and standby battery (TH-57C).
 - b. Vacuum the main battery compartment and clean using PD-680.
 - c. Ensure vent hoses and clamps are serviceable and vents are free from obstruction.
 - d. Apply electrical tape to seal exterior compartment vent lines.
 - e. Inspect battery helix assembly for condition and corrosion. Clean as needed and approved corrosion preventive compound (LPS 3, P/N 00316).

4. Landing Gear
 - a. Clean skid tubes and cross tubes and treat for corrosion in accordance with CSSD-PSE-87-001 (Bell Corrosion Control Manual).

5. Airframe
 - a. Fold and tape lap belts and restraint harness in secure position.
 - b. Remove first aid kit and place in proper storage.

If aircraft is already in preservation, no further action is required.

I-7. DEPRESERVATION AND ACTIVATION

1. Airframe
 - a. Remove tape and position lap belts and restraint harness in flight ready position.
 - b. Remove first aid kit from storage. Service and verify contents. Install in helicopter.
 - c. Inspect fire extinguisher for proper charge.
2. Landing Gear
 - a. Remove any excess corrosion prevention compound using solvent 140.
3. Battery
 - a. Remove tape from battery vent lines.
 - b. Remove main and standby battery (TH-57C) from storage. Service and verify charge. Install in helicopter.
4. Power Train Assembly
 - a. Service transmission and tail rotor gearbox to proper level.

5. Engine
 - a. Flush fuel system with in accordance with Rolls-Royce Operations and Maintenance Manual.
 - b. Rinse the engine in accordance with Rolls-Royce Operations and Maintenance Manual, 1OW2.
6. Miscellaneous
 - a. Perform all required inspections.
 - b. Record the date and activity returning the helicopter to service in the Aircraft Logbook using Preservation/Depreservation Record, OPNAV form 4790/136A.
 - c. Record the date, time since overhaul, total time, "In Preservation" in REMARKS, signature, and organization in the Engine Logbook INSPECTION-MAINTENANCE-OVERHAUL RECORD. COMPRESSOR ASSEMBLY (Form 2784E-1 or approved substitute)
 - d. Record the date, time since overhaul, total time, "Engine preserved IAW Allison procedures" in REMARKS, signature, and organization in the following Engine Logbook sections:
 - 1) INSPECTION-MAINTENANCE-OVERHAUL RECORD, GEARBOX ASSEMBLY (Form 2784C-1 or approved substitute).
 - 2) INSPECTION-MAINTENANCE-OVERHAUL RECORD, TURBINE ASSEMBLY (Form 2784D or approved substitute).