Additional Items	Additional Items
Preflight items for optional equipment installed on aircraft:	Preflight items for optional equipment installed on aircraft:
	-
	-
	-
	-
	-
	-
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**MODEL R66** 

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# ROBINSON HELICOPTER COMPANY MODEL R66 DAILY OR PREFLIGHT CHECKS

Visit www.robinsonheli.com to verify this checklist is current.

# **GENERAL PROCEDURES**

**MODEL R66** 

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- Remove ground handling wheels and all covers and tie-downs.
- Remove even small accumulations of frost, ice, or snow, especially from rotor blades.
- Check maintenance records to verify aircraft is airworthy.

An 8-foot step ladder is recommended for preflight inspection of the main rotor; however, the main rotor hub may be reached by using the steps built into three cowl doors on the left side of the cabin.

- Check general condition of aircraft and verify no visible damage, fluid leakage, or abnormal wear.
- Verify no fretting at rivets and seams where parts are joined together. Fretting of aluminum parts produces a fine black powder while fretting of steel parts produces a reddish-brown or black residue.
- Verify tail gearbox Telatemp shows no temperature increase that cannot be attributed to a change in operating conditions (mechanics draw a reference line to the right of the highest temperature square which has darkened in operation).
- Verify torque stripes on critical fasteners are not broken or missing.

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# 1. Pilot's Station

- · Battery switch ON
- Check fuel quantity
- MR temp/press, engine oil, gen, low RPM lights on
- Test annunciator panel, all lights on
- · Check strobe, nav, landing lights
- Battery switch OFF
- · Release rotor brake
- Adjust tail rotor pedals, pins secure

# 2. Fuselage Right Side & Engine Compartment

- · Verify no visible damage
- · Verify door hinge cotter rings installed
- Check landing gear strut fairings, skid, skid shoes
- Verify static port clear
- · Check baggage compartment loading and security
- Verify no fuel odor in baggage compartment
- · Verify baggage door latched
- Verify engine air filter clean
- Verify no fluid leaks
- · Verify all air ducts secure
- Check engine oil filter impending bypass indicator
- · Check engine fuel control linkage
- Verify exhaust secure and no cracks
- · Verify cowl door latched

# 3. Tailcone, Empennage, & Tail Rotor

- · Verify all antennas and lights secure
- · Verify empennage secure, no cracks
- Verify tail rotor guard secure, no cracks
- Verify tail skid secure, no damage
- Check tail rotor gearbox oil quantity and Telatemp
- · Verify drive system continuity by rotating tail rotor
- Verify no damage to tail rotor blades
- · Verify no looseness at pitch links, bellcrank
- Check condition of elastomeric teeter bearing
- · Verify teeter bearing bolt does not rotate

# 4. Belly

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- · Verify all antennas and panels secure
- Verify aft crosstube cover properly installed
- Verify generator cooling air filter clean

## 5. Main Rotor

- Verify no damage to blades
- · Verify paint covers bond line
- Verify no leaks at pitch change boots
- · Verify all fasteners secure
- Verify no excessive looseness at scissors, rod ends

# CAUTION

Do not pull down on blades to teeter rotor. To lower a blade, push up on opposite blade.

# 6. Fuselage Left Side & Engine Compartment

- Verify no visible damage
- Verify door hinge cotter rings installed
- Check landing gear strut fairings, skid, skid shoes
- Verify static port clear
- Verify fuel quantity and filler cap secure
- Verify engine air filter clean and secure
- Check engine, main gearbox, hydraulic oil levels
- Check gearbox oil filter impending bypass indicator
- Check engine and gearbox oil coolers
- Check engine governor control linkage
- · Verify no fluid leaks
- Sample fuel, drain water and contaminants
- · Verify all cowl doors latched

# 7. Nose

- · Verify pitot tube clear
- · Verify windshield clean and undamaged
- Check yaw string

# 8. Cabin Area

- Verify no loose items
- · Verify all items clear of controls
- Verify left seat controls removed or properly installed
- · Verify seatbelts for unoccupied seats buckled

# **CAUTION**

Remove left seat controls if person in that seat is not a rated helicopter pilot.

## CAUTION

Ensure compartments under occupied seats are not filled above maximum fill line.

## CAUTION

Ensure all cabin doors are unlocked before flight to allow rescue or exit in an emergency. Aft door locks have a green stripe to indicate door unlocked.

# **CAUTION**

Shorter pilots may require cushion to obtain full travel of all controls. Verify aft cyclic travel is not restricted.

### NOTE

Aircraft with optional equipment may have modified or additional checklist items. Refer to appropriate Pilot's Operating Handbook Supplement.