ROBINSON	MODEL R66	ROBINSON	MODEL R66	
Additional Items		Additional Items		<b>ROBINSON HELICOPTER COMPANY</b>
Preflight items for optional equipment installed on aircraft:		Preflight items for optional equipme	nt installed on aircraft:	MODEL R66
				DAILY OR PREFLIGHT CHECKS
				Visit <u>www.robinsonheli.com</u> to verify this checklist is current.
				GENERAL PROCEDURES
				<ul> <li>Remove ground handling wheels and all covers and tie-downs.</li> </ul>
				<ul> <li>Remove even small accumulations of frost, ice, or snow, especially from rotor blades.</li> </ul>
				• 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.
				<ul> <li>Check general condition of aircraft and verify no visible damage, fluid leakage, or abnormal wear.</li> </ul>
				<ul> <li>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.</li> </ul>
				<ul> <li>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).</li> </ul>
				<ul> <li>Verify torque stripes on critical fasteners are not broken or missing.</li> </ul>

REV: 21 JUN 2021

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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

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# 4. Belly

MODEL R66

- 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

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## MODEL R66

## 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.