

CHAPTER 7 — LIFTING AND JACKING

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LIFTING AND JACKING

7-1. LIFTING AND JACKING

Procedures for lifting a complete helicopter, lifting a helicopter minus a transmission, lifting a tailboom only, and jacking a helicopter are provided in this chapter.

7-2. LIFTING COMPLETE HELICOPTER

SPECIAL TOOLS REQUIRED

| NUMBER | NOMENCLATURE |
|-----------------|--|
| 130-013-3 | Main Rotor Tie-down |
| 204-011-178-001 | Lifting Eye Clevis |
| 206-070-469-001 | Tail Rotor Strap |
| Commercial | Hoist, 5000 Pound (2268 kg) Capacity, Minimum |
| Commercial | Hoisting Cable, 5000 Pound (2268 kg) Capacity, Minimum |

WARNING

PERSONNEL SHALL NOT ENTER INTO OR CLIMB ONTO HELICOPTER WHILE IT IS BEING RAISED OR WHILE SUPPORTED ON JACKS. AREA SHALL BE ROPED OFF AND WARNING SIGNS DISPLAYED, 'THIS HELICOPTER IS ON JACKS.'

1. Secure main rotor blades with main rotor tie-down (3, [Figure 7-1](#)) and tail rotor with tail rotor strap (4).
2. Attach suitable hoisting cable and clevis (1) capable of supporting helicopter to eye of main rotor mast nut (2). Connect suitable hoist and take up slack.

3. Position a person at tail skid to steady helicopter when hoisting. If lifting of helicopter will be beyond arms reach from ground, secure a safety rope to tail skid.

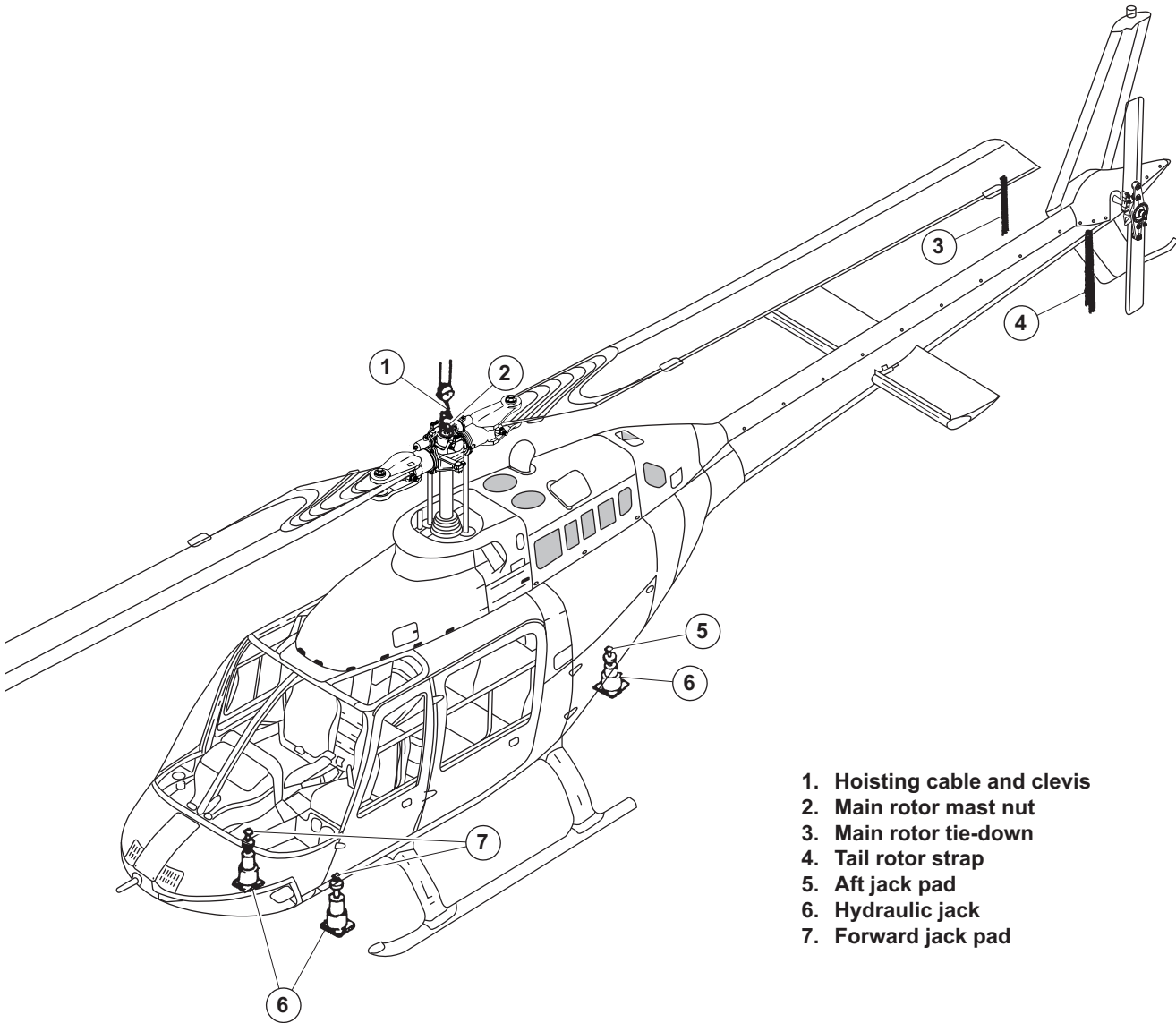
4. Hoist helicopter slowly with constant lifting force.

7-3. LIFTING HELICOPTER WITHOUT TRANSMISSION

SPECIAL TOOLS REQUIRED

| NUMBER | NOMENCLATURE |
|------------|---|
| Commercial | Cargo Net, 5000 Pound (2268 kg) Capacity, Minimum |
| Commercial | Hoisting Clevis, 5000 Pound (2268 kg) Capacity, Minimum |
| Commercial | Four-point Sling, 1250 Pound (567 kg) per Point, 5000 Pound (2268 kg) Total Capacity, Minimum |

1. Remove all loose equipment from cabin and passenger compartment.
2. Remove all loose or broken hardware (i.e., cowling, fairing, tailboom, etc.).
3. If landing gear crosstubes are intact, provide a four-point sling from crosstubes on each side of fuselage to a common clevis. Use a standard four-point sling to provide lifting capability of a minimum of 5000 pounds (2268 kg) total. Protect with padding where sling may contact fuselage.
4. If lifting of helicopter cannot be accomplished using a hoisting clevis or a four-point sling, a large cargo net may be used. Place cargo net under fuselage and attach four corners of net to hoisting clevis.



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Figure 7-1. Lifting and Jacking

5. Secure safety rope to toe of one landing gear skid or tie-down fitting.
6. Hoist helicopter slowly with constant lifting force.

7-4. LIFTING TAILBOOM ONLY

Hoist tailboom as separate component with sling positioned at center of gravity of tailboom.

Use sling manufactured from web material. Position a person at each end of tailboom to steady tailboom in sling.

7-5. JACKING HELICOPTER

SPECIAL TOOLS REQUIRED

| NUMBER | NOMENCLATURE |
|--------------------|------------------------|
| 130-013-3 | Main Rotor Tie-down |
| 206-070-469-001 | Tail Rotor Strap |
| 8587 or Equivalent | Hydraulic Jack (Qty 3) |

WARNING

PERSONNEL SHALL NOT ENTER INTO OR CLIMB ONTO HELICOPTER WHILE IT IS BEING RAISED OR WHILE SUPPORTED ON JACKS. AREA SHALL BE ROPED OFF AND WARNING SIGNS DISPLAYED, 'THIS HELICOPTER IS ON JACKS'.

1. When conditions require that helicopter be placed on jacks in an unsheltered area, the following precautions shall be observed.

a. Secure main rotor blades with main rotor tie-down (3, [Figure 7-1](#)) and tail rotor with tail rotor strap (4).

b. Place three 8587 or equivalent hydraulic jacks (6) in their respective positions under aft and forward jack pads (5 and 7).

c. Operate jack handles slowly and carefully, simultaneously at three positions, being careful to keep helicopter level, as it is raised to desired height.

2. When lowering helicopter, slowly and carefully lower the three jacks simultaneously.

3. Remove jacks and other equipment from area.

4. Return and secure loose equipment taken from cabin and passenger compartment.

