

HUGHES MODEL 269A  
U.S. ARMY TH-55A PRIMARY TRAINER  
OWNERS MANUAL

# FAA APPROVED ROTORCRAFT FLIGHT MANUAL

## SCHWEIZER MODEL 269A HELICOPTER

Type Certificate No. 4H12

THIS HELICOPTER MUST BE OPERATED IN COMPLIANCE  
WITH THE OPERATING LIMITATIONS AS SET FORTH IN  
SECTION I OF THIS MANUAL

REGISTRATION NO. \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

DATE OF ORIGINAL APPROVAL 22 June 1966

REVISION APPROVED BY \_\_\_\_\_

*Vito A. Pulea,*  
Manager, NYACO, ANE-170

DATE OF APPROVAL OCT 30 2003

This Manual Must Be Kept In The Aircraft At All Times

Issued: 13 Jan 1971

Schweizer Model 269A Helicopter

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1-4. POWERPLANT LIMITATIONS - LYCOMING  
HIO-360-B1A ENGINE

- a. Takeoff and maximum power, 2900 rpm, full throttle (five minute limit).
- b. Maximum continuous operations; 160 hp at 2900 rpm (26.2 inches mp at sea level, varying linearly to 25.3 inches mp at 3700 feet).
- c. Minimum operating rpm; 2700 rpm.
- d. Engine idle speed range; 1200 to 1600 rpm.
- e. Initial clutch engagement speed; 1500 to 1600 rpm.
- f. Do not exceed 1600 rpm with rotor disengaged.
- g. Fuel octane rating; 91/96 thru 115/145.
- h. Lubricating oil recommendations

| SAE Oil Grades   |                    |                                 |
|------------------|--------------------|---------------------------------|
| Single Viscosity | Multiple Viscosity | Average Ambient Air Temperature |
| 50               | 40 or 50           | above 60°F                      |
| 40               | 40                 | 30° to 90°F                     |
| 30               | 40 or 20W-30       | 0° to 70°F                      |
| 20               | 20W-30             | below 10°F                      |

1-5. FLIGHT LIMITATIONS

- a. Instrument flight prohibited.
- b. Night flight operation is limited to VFR conditions.

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d. Fuel Pressure

|                 |                |
|-----------------|----------------|
| Red radial line | 14 and 30 psig |
| Green arc       | 14 to 30 psig  |

e. Engine Tachometer

|                  |                                      |
|------------------|--------------------------------------|
| Red radial lines | 2700 and 2900 rpm                    |
| Green arc        | 1200 to 1600 and<br>2700 to 2900 rpm |
| Yellow arc       | 1950 to 2350 rpm                     |

f. Rotor Tachometer

|                 |                 |
|-----------------|-----------------|
| Red radial line | 400 and 530 rpm |
| Green arc       | 400 to 530 rpm  |

g. Airspeed Indicator

|                 |           |
|-----------------|-----------|
| Red radial line | 75K       |
| Green arc       | 35 to 75K |

h. Manifold Pressure

|            |                        |
|------------|------------------------|
| Yellow arc | 26.2 to 28.8 inches mp |
|------------|------------------------|

i. Transmission Oil Temperature and Pressure. A warning light on the instrument panel comes on when transmission oil pressure drops below  $2\frac{1}{2} \pm 1/4$  psi or temperature exceeds 235°F.

1-7. FLIGHT LIMITATION PLACARDS

a.

|                           |
|---------------------------|
| CHECK LIST                |
| TAKEOFF AND LANDING       |
| MIXTURE CONTROL FULL RICH |
| FUEL BOOST PUMP ON        |
| SOLO FLIGHT PROHIBITED    |
| FROM LEFT SEAT            |
| AVOID PROLONGED           |
| SIDEWARD FLIGHT           |

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