



U.S. Army YHO-2HU *two-place helicopter Hughes 269A*

THE U.S. Army **YHO-2HU**

HUGHES MODEL 269A

The YHO-2HU is a fully reliable, easily maintainable, high performing, low cost two-place helicopter for observation, liaison and training. With its hedgehopping abilities and extremely small silhouette, the YHO-2HU will reduce the hazards of enemy fire. It is easy to land, park and conceal. Pilots have said that this helicopter gives an exceptionally smooth vibration-free ride.

It is rugged in construction and simple in design to give a high degree of operational availability without being laid up for repairs or time consuming maintenance. The all metal main rotor blade of bonded wrap around skin construction is factory-balanced, completely interchangeable, and does not require retracking in service. The rugged gear boxes utilize

a simple automotive type ring gear and pinion for both the main and tail rotor, with consequent dependability. The completely trouble-free multiple belt drive-clutch provides efficient power coupling and isolates engine vibration from the rotor system, controls and cockpit.

The engine, multiple belt drive-clutch, main gearbox and rotor system are all independently installed. All assemblies are designed to make incorrect assembly impossible. The easily accessible Lycoming O-360 engine is used in the same horizontal position and at the same engine speeds that have proven so successful in light planes. Access to all components is unhampered by structures or closures and the various parts are easily inspected visually.



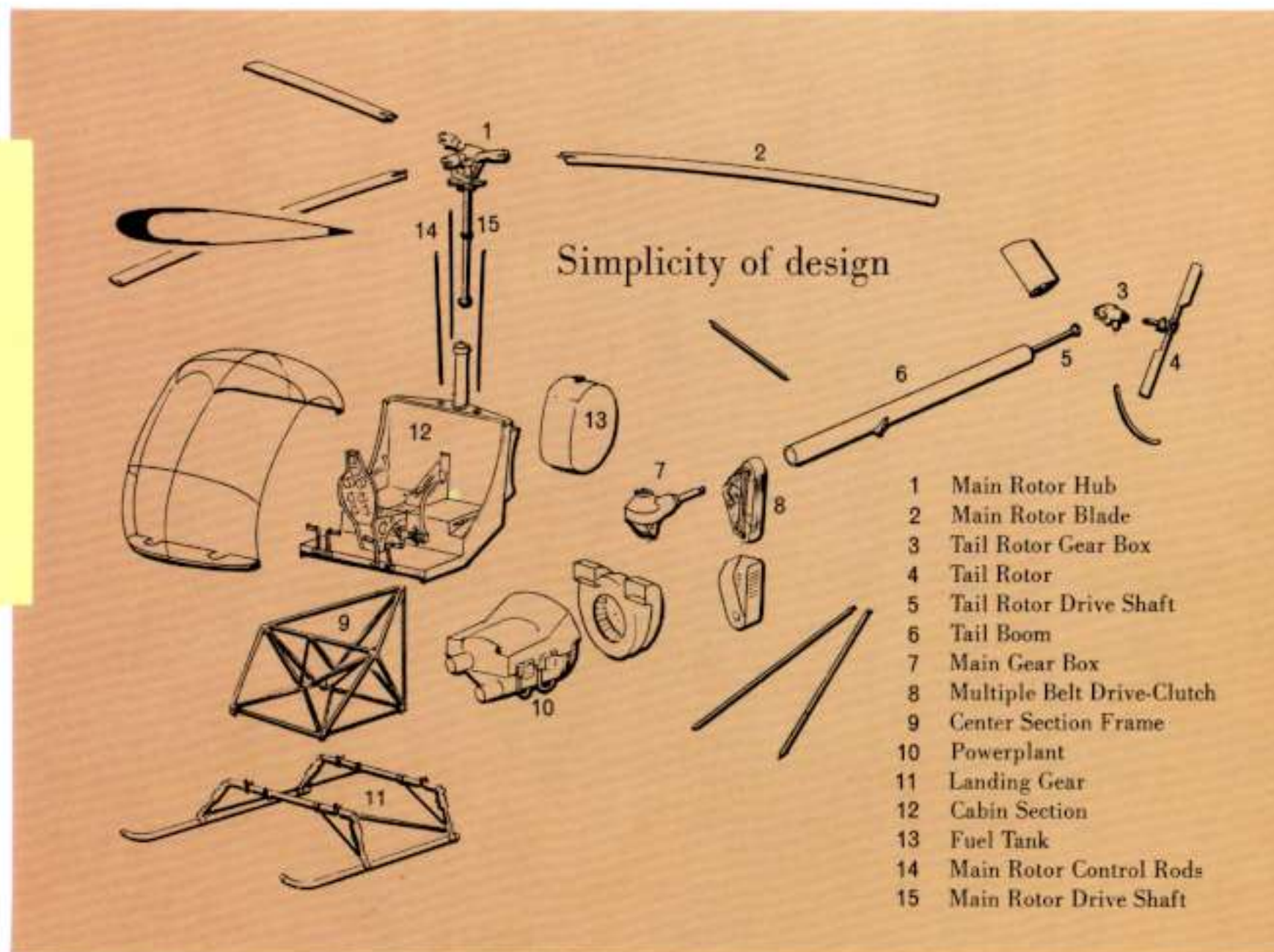
Observation - Liaison - Courier - Training

...inherently...ready for action...any time, any place



MAINTENANCE IN MINUTES

Typical of ease of maintenance—the power plant package can be changed in 45 minutes by three men without the use of hoists or special tools.



...built-in reliability... rugged, low cost...a quality product

YHO-2HU Specifications

DIMENSIONS

Over-All Height	95 In.
Over-All Length	267 In.
Fuselage Maximum Width	51 In.
Landing Gear Tread	78.5 In.

WEIGHTS

Design Gross Weight	1550 Lb.
Empty Weight	915 Lb.
Useful Load	635 Lb.

POWERPLANT

Engine	Lycoming
Designation	O-360-C2B
Configuration	4 Cyl. H-O
Power	180 HP
RPM	2700

ROTOR DATA

	Main Rotor	Tail Rotor
Number of Blades	3	2
Radius	12.5 Ft.	1.66 Ft.
Chord	6.75 In.	3.5 In.
Blade Section	NACA 0015	NACA 0015
Design Tip Speed	589 FPS	721 FPS
Design RPM	450 RPM	4138 RPM
Delta Three	None	30 Deg.

PERFORMANCE

Cruising Speed (Max.), MPH	85
Endurance (Max.), Hours	3.3
Range (Max.), Miles	195
Service Ceiling, Feet	11,500
Rate of Climb (Max.), Ft-Min	1450
Time to Climb to 5000 Ft, Minutes	4.5
Hovering Ceiling (In Ground Effect), Feet	6000

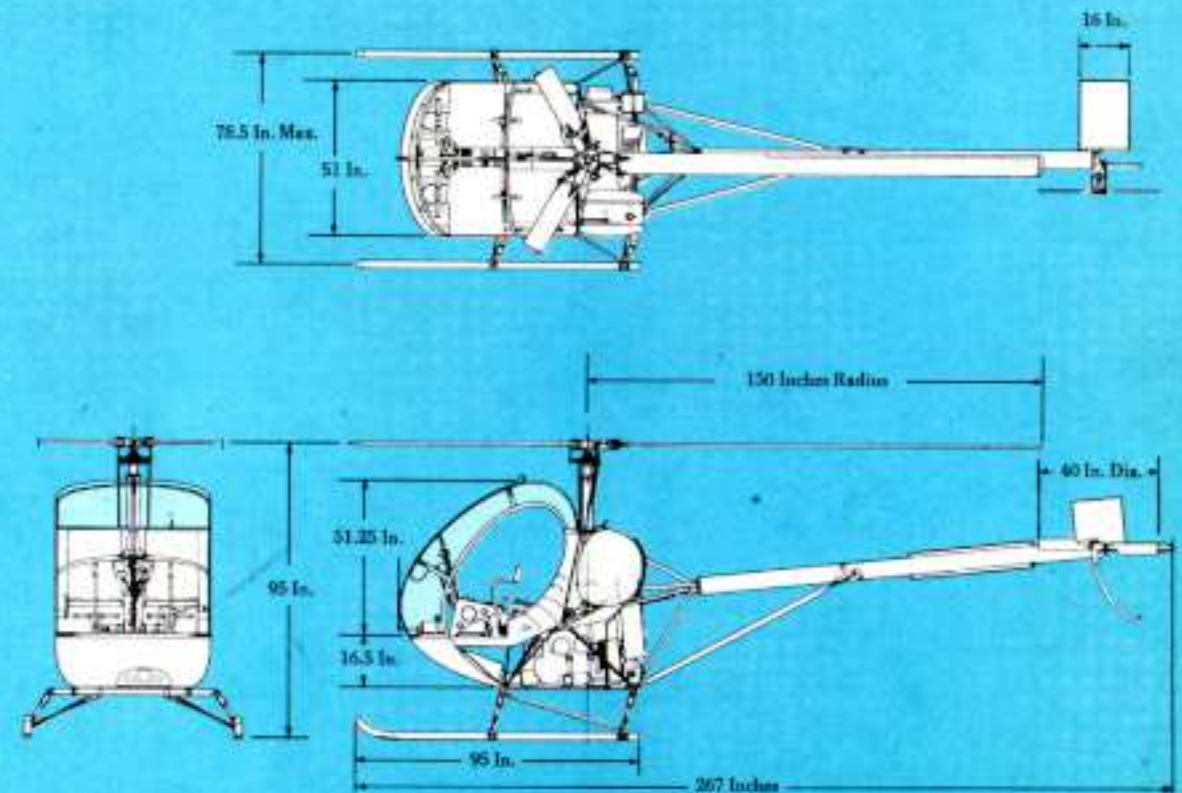
NOTE: All performance at Design Gross Weight

For further information please write:

DIRECTOR OF CUSTOMER RELATIONS

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