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REASON FOR REVISION:

The RV-6A has historically had a higher max gross weight limit at 1650 lbs, while the RV-6 has had a recommended max gross weight limit of 1600 lbs. The wing is the same between both aircraft and the aerobatic limit is the same for both at 1375lbs. The RV-6 limits were published before the RV-6A numbers. The RV-6A was a heavier aircraft, and via testing the wing was found to be able to withstand the extra 50 lbs and so a higher gross weight was issued. Because the relevant structures are the same, we are increasing the recommended allowed max gross weight limit of the RV-6 from 1600 lbs to 1650 lbs. The aerobatic gross weight limit for both models remains 1375 lbs.

In addition, the nose wheel weight limitations have been removed from Chapter 14 for RV-6A/7A/9A aircraft that incorporate the new-design U-00019 nose gear, which started shipping in 2019. The new gear design was specifically tested around a worst-case forward CG loading. Rather than setting a nose-gear weight limits, any W&B calculation that is within the aircraft's acceptable envelope is allowed. The forward CG limit, gross weight limitation, possible pilot/passenger weights, possible baggage and limitations on engine selection will determine the maximum weight on the U-00019 type nose gear.

REVISION DESCRIPTION / NEW DOCUMENTATION:

RV-6-6A MANUALSECTION 14 - W&B REV 3: Increased the RV-6 Gross Weight to match the RV-6A

Added the text "(if using any other gear leg other than U-00019)" to the limitation in the quick reference "RV-6A Max Weight on Nosewheel 375 lb"

Add to the Weight on Nose Wheel vs Gross Weight & CG Location chart the following statement "NOTE: This chart does not apply to aircraft equipped with U-00019"

RV-7- MANUALSECTION 14 - W&B REV 2:

Added the text "(if using any other gear leg other than U-00019)" to the limitation in the quick reference "RV-7A Max Weight on Nosewheel 375 lb"

Add to the Weight on Nose Wheel vs Gross Weight & CG Location chart the following statement "NOTE: This chart does not apply to aircraft equipped with U-00019"

RV-9-9A MANUALSECTION 14 - W&B REV 5:

Added the text "(if using any other gear leg other than U-00019)" to the limitation in the quick reference "RV-9A Max Weight on Nosewheel 375 lb"

Add to the Weight on Nose Wheel vs Gross Weight & CG Location chart the following statement "NOTE: This chart does not apply to aircraft equipped with U-00019"

DOWNLOADS PAGE:

Replaced RV6 WEB W and B.pdf with updated version