

Weight Shift Control (Trike) Weight and Loading

Make Sea & Sky Inc. Date 31 Aug 2010
 Model Krucker Cygnet Registraton # N505DB
 Empty Weight 626 Min Takeoff Weight 714 Serial # H20056
 Gross Weight 1060 Wing Make North Wing Model Mustang 3 19

Hang Point Range

The tricycle carriage is suspended from the wing hang point at a range of 58 inches to 60 inches back from the datum at the front of the keel tube.

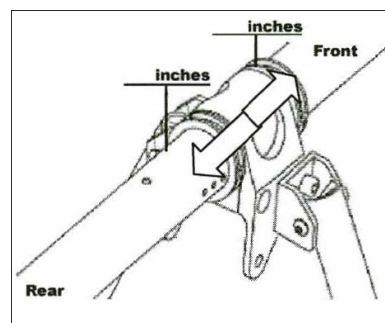
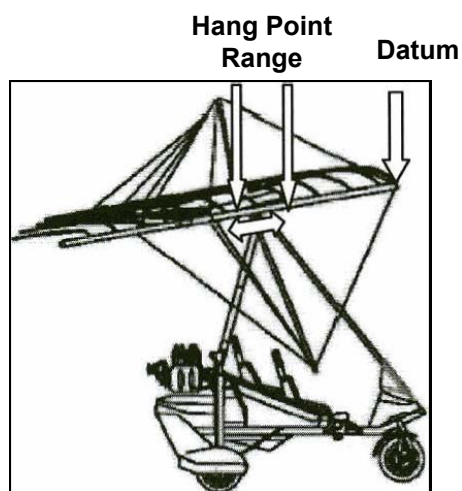
Trim Hang Point position for Payload Carried (check and complete 1 or 2.)

The wing can be trimmed to adjust for heavy or light payloads and speed by adjustiong the trike hang point forward or rearward within the hang point range.

- ☒ 1. All positions within the hang point range are operational at any payload up to the aircraft gross weight.
- ☐ 2. For payloads up to _____ pounds, use hang point position _____ inches to _____ inches from datum. For payloads from _____ pounds up to aircraft gross weight, use hang point position _____ inches to _____ inches from datum

Load distribution (check 1 or 2)

- ☒ 1. Any payload up to gross weight can be distributed between one or both seats.
- ☐ 2. Specify any payload distribution considerations between the front and back seats.



Effects of Changes to Hang Point

		Maneuverability	Speed	Wing Efficiency	Pitch stability	Payload
Hang point moved forward	→	Increase	increase	↔	decrease	Heavy
Hang Point moved rearward	←	Decrease	Decrease	↔	increase	Light

Empty weight: The total weight of the complete airframe, engine, wing and all permanently installed accesories and equipment. Includes unusable fuel and oil.

Payload: Gross weight - empty weight = payload. The weight of pilot, passenger, usable fuel, oil and baggage.

Gross Weight: Empty weight + weigh of pilot, passenger, fuel, oil, baggage and all that is carried in the plane. Specified by the manufacturer.