

2. McCauley Model 1C172, Type Certificate Number P-910, (either 1C172/BTM7357 fixed pitch propeller with B-4381 spacer (aluminum) or 1C172/SBTM7357 fixed propeller with B-4425 spacer (steel).

(Note: When steel spacer is installed, an "S" will be stamped in front on the BTM on the propeller hub by the airframe manufacturer.) Static rpm at maximum permissible throttle setting: not over 2348, not under 2250; no additional tolerance permitted. Diameter: not over 73 inches, not under 71.5 inches. No additional tolerance permitted.

Propeller Spinner

(Original spinner installation) Backplate Assembly 5506006-501, Shim 6602035-1, Front Bulkhead 5506005-1 or -3 and Spinner 5506001-1 or -510; or (Globe spinner installation) Bulkhead Assembly Aft 5506008-503, Bulkhead Assembly Fwd 5506010-501, Doubler 5506011-1 and Spinner 5506009-3.

Airspeed Limits
(CAS)

V_{ne}	Never exceed	190 mph	(165 knots)
V_{no}	Maximum structural cruising	150 mph	(130 knots)
V_a	Maneuvering utility category	122 mph	(106 knots)
V_a	Maneuvering normal category	122 mph	(106 knots)
V_{fe}	Flaps extended	120 mph	(104 knots)
	Canopy partially opened	130 mph	(113 knots)

C.G. Range

Normal	(+87.25 to (+90.1) at 2,200 lbs.
	(+80.0) to (+90.1) at 1,700 lbs.
Utility	(+82.2) to (+84.5) at 1,850 lbs.
	(+80.0) to (+84.5) at 1,700 lbs.

Straight line variation between points given.

Empty Weight C. G. Range

None

Maximum Weight

1,850 lbs. (Utility Category)
2,200 lbs. (Normal Category)

Number of Seats

2 at (+90.6)
2 at (+126.0)

Maximum Baggage

120 lbs. at (+148.0)

Maximum Cargo

(Rear Seat Folded Down)

340 lbs. at (+116.4)

Fuel Capacity

37 gallons (2 wing tanks) at (+90.9)
(See NOTE 1 for unusable fuel)

Oil Capacity

8 quarts at (+32.0) (6 quarts usable)
(2 quarts minimum)

Control Surface Movements

(Nominal from Neutral)

Elevator	$30^\circ \pm 2^\circ$ up	$20^\circ \pm 2^\circ$ down
Rudder	$25^\circ \pm 2^\circ$ left	$25^\circ \pm 2^\circ$ right
Ailerons	$15^\circ + 2-0^\circ$ up	$7.5^\circ + 2\frac{1}{2}-0^\circ$ down
Flaps		$30^\circ \pm 2^\circ$ down
Elevator Trim Tab	$16^\circ \pm 2^\circ$ up	$19^\circ \pm 2^\circ$ down

Serial Numbers Eligible

AA5-0001 and up (Normal and Utility Category)

Service Life Limit

Information with respect to service life limited parts on this Model is contained in the applicable manufacturer's service manual, "Model AA-5, AA-5A, AA-5B, AG-5B Service Manual," Section 3-00, "Service Life Limited Components." Service life limits appearing in this manual may not be changed without FAA Engineering approval.

Service life limited parts must be retired in accordance with the following schedule:

Component	Part Number	Service Life (Hours)
Inboard Spar Assembly	5102310-501	12,000
Wing Spar Assembly	5201002-501	12,500
Wing Outboard Spar Assembly	5201189-501	12,500
Shoulder Bolt	901044-2,-3	7,250

Production Basis

None. Prior to original certification of each aircraft manufactured subsequent to May 12, 2000, an FAA representative must perform a detailed inspection for workmanship, materials and conformity with the approved technical data and a check of the flight characteristics.

II. - Model AA-5A, Cheetah, 4 PCLM, Utility Category, approved July 28, 1975; Normal Category, approved July 28, 1975

Engine

One each Lycoming O-320-E2G (Carburetor MA-4 SPA with settings 10-5062 or 10-5009) (Type Certificate Number E-274)

Fuel

80/87 minimum grade aviation gasoline

Engine Limits

For all operations, 2,700 rpm (150 hp)

Propeller and Propeller Limits

1. McCauley Model 1C172, Type Certificate Number P-910, (either 1C172/BTM7359 fixed pitch propeller with B-4381 spacer (aluminum) or 1C172/SBTM7359 fixed pitch propeller with B-4425 spacer (steel). (Note: When steel spacer is installed, an "S" will be stamped in front of the BTM on the propeller hub by the airframe manufacturer.) Static rpm at maximum permissible throttle setting; not over 2375; not under 2250. Diameter: not over 73 inches; not under 71.5 inches. No additional tolerance permitted.
2. McCauley Model 1C172, Type Certificate Number P-910, (either 1C172/BTM7357 fixed pitch propeller with B-4381 spacer (aluminum) or 1C172/SBTM7357 fixed pitch propeller with B-4425 spacer (steel). (Note: When steel spacer is installed, an "S" will be stamped in front on the BTM on the propeller hub by the airframe manufacturer.) Static rpm at maximum permissible throttle setting; not over 2348; not under 2250. No additional tolerance permitted. Diameter: not over 73 inches; not under 71.5 inches. No additional tolerance permitted.

Airspeed Limits
(CAS)

V_{ne}	Never exceed	190 mph	(165 knots)
V_{no}	Maximum structural cruising	150 mph	(130 knots)
V_a	Maneuvering utility category	122 mph	(106 knots)
V_a	Maneuvering normal category	122 mph	(106 knots)
V_{fe}	Flaps extended	120 mph	(104 knots)
	Canopy partially opened	130 mph	(113 knots)

C.G. Range

Normal (+85.60) to (+92.5) at 2,200 lbs.
 (+81.0) to (+92.5) at 1,780 lbs.
 Utility (+81.8) to (+86.0) at 1,850 lbs.
 (+81.0) to (+86.0) at 1,780 lbs.
 Straight line variation between points given.

Empty Weight C. G. Range

None

Maximum Weight

1,850 lbs. (Utility Category)
 2,200 lbs. (Normal Category)

Number of Seats

2 at (+90.6)
 2 at (+126.0)

Maximum Baggage

120 lbs. at (+148.0)

<u>Maximum Cargo</u> (Rear Seat Folded Down)	340 lbs. at (+116.4)		
<u>Fuel Capacity</u> (Standard Tanks)	37 gallons (2 wing tanks) at (+90.9) (See NOTE 1 for unusable fuel)		
<u>Fuel Capacity</u> (Optional Tanks)	51 gallons (2 wing tanks) at (+94.8) (See NOTE 1 for unusable fuel)		
<u>Oil Capacity</u>	8 quarts at (+32.0) (6 quarts usable) (2 quarts minimum)		
<u>Control Surface Movements</u> (Nominal from neutral)	Elevator	23° ± 1° up	17° ± 2° down
	Rudder	25° ± 2° left	25° ± 2° right
	Ailerons	15° + 2-0° up	7.5° + 2½-0° down
	Flaps		45° ± 2° down
	Elevator Trim Tab	14° ± 3° up	30° ± 1° down

Serial Numbers Eligible AA5A-0001 and up (Normal and Utility Category)

Service Life Limit Information with respect to service life limited parts on this Model is contained in the applicable manufacturer's service manual, "Model AA-5, AA-5A, AA-5B, AG-5B Service Manual," Section 3-00 (Section 5 after 1976), "Service Life Limited Components." Service life limits appearing in this manual may not be changed without FAA Engineering approval.

Service life limited parts must be retired in accordance with the following schedule:

Component	Part Number	Service Life (Hours)
Inboard Spar Assembly	5102310-501	12,000
Wing Spar Assembly (Standard)	5201002-501	12,500
Wind Spar Assembly (Optional)	5201004-501	12,500
Wing Outboard Spar Assembly	5201189-501	12,500
Shoulder Bolt	901044-2, -3	7,250

Production Basis None. Prior to original certification of each aircraft manufactured subsequent to May 12, 2000, an FAA representative must perform a detailed inspection for workmanship, materials and conformity with the approved technical data and a check of the flight characteristics.

III. - Model AA-5B, Tiger, 4 PCLM, Utility Category, approved November 27, 1974; Normal Category, approved November 27, 1974

Engine One each Lycoming O-360-A4K (Carburetor HA-6 with setting 10-5092 or 10-5219) (Type Certificate Number E-286).

Fuel 100/100 minimum grade aviation gasoline

Engine Limits For all operations, 2,700 rpm (180 hp)

Propeller and Propeller Limits McCauley Model 1A170/FFA7563 with B-4273 spacer (aluminum) or 1A170/KFA7563 with B-4273 spacer (aluminum), Type Certificate Number P-857. Static rpm at maximum permissible throttle setting; not over 2325; not under 2175. Diameter: not over 75 inches; not under 74.5 inches. No additional tolerance permitted.

Propeller Spinner (Original spinner installation) Backplate Assembly 5506006-502, Shim 5502035-2, Front Bulkhead 5506005-2 or -4 and Spinner Assembly 5506002-1 or -503; or (Globe spinner installation) Bulkhead Assembly Aft 5506008-505, Bulkhead Assembly Fwd 5506010-503, Doubler 5506011-3 and Spinner 5506009-3.

<u>Airspeed Limits</u> (CAS)	V_{ne}	Never exceed	200 mph	(174 knots)															
	V_{no}	Maximum structural cruising	165 mph	(143 knots)															
	V_a	Maneuvering utility category	130 mph	(113 knots)															
	V_a	Maneuvering normal category	130 mph	(113 knots)															
	V_{fe}	Flaps extended	120 mph	(104 knots)															
		Canopy partially opened	130 mph	(113 knots)															
<u>C.G. Range</u>	Normal	(+89.0) to (+92.50)	At 2,400 lbs.																
		(+81.0) to (+92.50)	At 1,920 lbs.																
	Utility	(+83.17) to (+85.32)	at 2,050 lbs.																
		(+81.0) to (+85.32)	at 1,520 lbs.																
		Straight line variation between points given.																	
<u>Empty Weight C. G. Range</u>	None																		
<u>Maximum Weight</u>	2,050 lbs.	(Utility Category)																	
	2,400 lbs.	(Normal Category)																	
<u>Number of Seats</u>	2	at (+90.6)																	
	2	at (+126.0)																	
<u>Maximum Baggage</u>	120 lbs.	at (+148.0)																	
<u>Maximum Cargo</u> (Rear Seat Folded Down)	340 lbs.	at (+116.4)																	
<u>Fuel Capacity</u>	51 gallons	(2 wing tanks) at (+94.8)	(See NOTE 1 for unusable fuel)																
<u>Oil Capacity</u>	8 quarts	at (+32.0)	(6 quarts usable) (2 quarts minimum)																
<u>Control Surface Movements</u> (Nominal from neutral)	Elevator	$23^\circ \pm 1^\circ$	up	$17^\circ \pm 2^\circ$ down															
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	Flaps			$45^\circ \pm 2^\circ$ down															
	Elevator Trim Tab	$14^\circ \pm 3^\circ$	up	$30^\circ \pm 1^\circ$ down															
<u>Serial Numbers Eligible</u>	AA5B-0001 and up (Normal and Utility Category)																		
<u>Service Life Limit</u>	Information with respect to service life limited parts on this Model is contained in the applicable manufacturer's service manual, "Model AA-5, AA-5A, AA-5B, AG-5B Service Manual, " Section 3-00 (Section 5 after 1976), "Service Life Limited Components." Service life limits appearing in this manual may not be changed without FAA Engineering approval.																		
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<u>Production Basis</u>	None. Prior to original certification of each aircraft manufactured subsequent to May 12, 2000, an FAA representative must perform a detailed inspection for workmanship, materials and conformity with the approved technical data and a check of the flight characteristics.																		

IV. Model AG-5B, Tiger, 4 PCLM, Utility Category, approved September 21, 1990; Normal Category, approved September 21, 1990

<u>Engine</u>	One each Lycoming O-360-A4K (Carburetor HA-6 with setting 10-5092, 10-5219, or 10-6019) (Type Certificate Number E-286)																								
<u>Fuel</u>	100/100 minimum grade aviation gasoline																								
<u>Engine Limits</u>	For all operations, 2,700 rpm (180 hp)																								
<u>Propeller and Propeller Limits</u>	Sensenich Model 76EM8S10-0-61, 76EM8S10-0-63 and 76EM8S10-0-65. Diameter: 76 inches. (Type Certificate Number P4EA)																								
<u>Propeller Spinner</u>	Bulkhead Assembly Aft 5506008-505, Bulkhead Assembly Fwd 5506010-503, Doubler 5506011-3 and Spinner 5506009-3.																								
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<u>Empty Weight C. G. Range</u>	None																								
<u>Maximum Weight</u>	2,050 lbs. (Utility Category) 2,400 lbs. (Normal Category)																								
<u>Number of Seats</u>	2 at (+90.6) 2 at (+126.0)																								
<u>Maximum Baggage</u>	120 lbs. at (+148.0)																								
<u>Maximum Cargo</u> (Rear Seat Folded Down)	340 lbs. at (+116.4)																								
<u>Fuel Capacity</u>	51 gallons (2 wing tanks) at (+94.8) (See NOTE 1 for unusable fuel)																								
<u>Oil Capacity</u>	8 quarts at (+32.0) (6 quarts usable) (2 quarts minimum)																								
<u>Control Surface Movements</u> (Nominal from neutral)	<table border="0"> <tr> <td>Elevator</td> <td>$23^\circ \pm 1^\circ$ up</td> <td>$17^\circ \pm 2^\circ$ down</td> </tr> <tr> <td>Rudder</td> <td>$25^\circ \pm 2^\circ$ left</td> <td>$25^\circ \pm 2^\circ$ right</td> </tr> <tr> <td>Ailerons</td> <td>$15^\circ + 2-0^\circ$ up</td> <td>$7.5^\circ + 2\frac{1}{2}-0^\circ$ down</td> </tr> <tr> <td>Flaps</td> <td></td> <td>$45^\circ \pm 2^\circ$ down</td> </tr> <tr> <td>Elevator Trim Tab</td> <td>$14^\circ \pm 3^\circ$ up</td> <td>$30^\circ \pm 1^\circ$ down</td> </tr> </table>	Elevator	$23^\circ \pm 1^\circ$ up	$17^\circ \pm 2^\circ$ down	Rudder	$25^\circ \pm 2^\circ$ left	$25^\circ \pm 2^\circ$ right	Ailerons	$15^\circ + 2-0^\circ$ up	$7.5^\circ + 2\frac{1}{2}-0^\circ$ down	Flaps		$45^\circ \pm 2^\circ$ down	Elevator Trim Tab	$14^\circ \pm 3^\circ$ up	$30^\circ \pm 1^\circ$ down									
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<u>Serial Numbers Eligible</u>	10000 and up (Normal and Utility Category)																								
<u>Service Life Limit</u>	Information with respect to service life limited parts on this Model is contained in the applicable manufacturer's service manual, "Model AA-5, AA-5A, AA-5B, AG-5B Service Manual," Section 3-00 (Section 5 after 1976), "Service Life Limited Components." Service life limits appearing in this manual may not be changed without FAA Engineering approval.																								

Service life limited parts must be retired in accordance with the following schedule:

Component	Part Number	Service Life (Hours)
Inboard Spar Assembly	5102310-503	12,000
Wing Spar Assembly	5201004-501	12,500
Wing Outboard Spar Assembly	5201189-501	12,500
Shoulder Bolt	901044-2, -3	7,250

Production Basis

Tiger Aircraft LLC of Martinsburg, West Virginia holder of Production Certificate No. 119NE.

DATA PERTINENT TO ALL MODELS

Datum

50.0 inches forward of front face of firewall (wing chord 53.32 inches)

Leveling Means

Canopy Slide Rail

Certification Basis

FAR 23 effective February 1, 1965, and Amendments 23-1 through 23-8, Date of Application for Type Certificate, July 2, 1970. Type Certificate No. A16EA issued November 12, 1971.

Equipment

The basic equipment prescribed in the applicable airworthiness regulations (see Certificate Basis) must be installed in the airplane for certification. In addition, the Pilot Operating Handbook/Airplane Flight Manual is required as follows:

- Airplane Flight Manual dated February 26, 1979, is required for the following aircraft:

Model AA-5A: S/N 0729, 0741, 0745, 0750, 0754, 0766, 0770, 0774, 0791, 0826 and subsequent.

Model AA-5B: S/N 0973, 0975, 1021, 1029, 1088, 1092, 1101, 1103, 1104, 1108 and subsequent.

- FAA approved Pilot Operating Handbook/Airplane Flight Manual number POH-AGAC-1 is required for the following model and serial number airplanes:

Model AG-5B: S/N 99998, 10000 through 10174.

- FAA approved Pilot Operating Handbook/Airplane Flight Manual number POH-AG5B-1 is required for the following model and serial number airplanes:

Model AG-5B: S/N 10201 and subsequent except 99998.

NOTE 1:

A current weight and balance report, including a list of equipment in the certificated empty weight and also loading instructions, must be provided for each airplane at the time of original certification.

A. Applicable to Model AA-5 and Model AA-5A (with Standard Tanks)

The certificated weight empty and corresponding center-of-gravity location must include 6 lbs. (1 gallon) at (+90.9) of unusable fuel. (Undrainable fuel and oil is negligible.)

B. Applicable to Model AG-5B, AA-5B and Model AA-5A (with Optional Tanks)

The certificated weight empty and corresponding center-of-gravity location must include 9.6 lbs. (1.6 gallons) at (+94.8) of unusable fuel. (Undrainable fuel and oil is negligible.) The AG-5B also includes full oil in the certified weight empty and corresponding center-of-gravity location.

NOTE 2:

The following placards must be installed in full view of the pilot (values shown below in MPH CAS may be provided in KNOTS IAS):

- (a) "THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUALS."

NORMAL CATEGORY

MAXIMUM DESIGN WEIGHT	2,200 LBS. (AA-5 & AA-5A) 2,400 LBS. (AA-5B & AG-5B)
DESIGN MANEUVERING SPEED, V_a	122 MPH CAS (AA-5 & AA-5A) 130 MPH CAS (AA-5B & AG-5B)
FLIGHT LOAD FACTORS:	
FLAPS UP	+3.8, -1.52
FLAPS DOWN	+3.5

NO ACROBATIC MANEUVERS, INCLUDING SPINS, APPROVED.

UTILITY CATEGORY

MAXIMUM DESIGN WEIGHT	1,850 LBS (AA-5 & AA-5A) 2,050 LBS (AA-5B & AG-5B)
DESIGN MANEUVERING SPEED, V_a	122 MPH CAS (AA-5 & AA-5A) 130 MPH CAS (AA-5B & AG-5B)
FLIGHT LOAD FACTORS:	
FLAPS UP	+4.4, -1.76
FLAPS DOWN	+3.5

REAR SEAT MUST NOT BE OCCUPIED.

ACROBATIC MANEUVERS ARE LIMITED TO THE FOLLOWING:

<u>MANEUVER</u>	<u>ENTRY SPEED (MPH, CAS)</u>
CHANDELLES	122 (AA-5 & AA-5A) 130 (AA-5B & AG-5B)
LAZY EIGHTS	122 (AA-5 & AA-5A) 130 (AA-5B & AG-5B)
STEEP TURNS	122 (AA-5 & AA-5A) 130 (AA-5B & AG-5B)
STALLS (EXCEPT WHIP STALLS)	SLOW DECELERATION

SPINS PROHIBITED

MAXIMUM ALTITUDE LOSS IN STALLS	350 FEET (AA-5A & AA-5B & AG-5B) 300 FEET (AA-5)
DEMONSTRATED CROSSWIND VELOCITY	18 MPH (AA-5A & AA-5B & AG-5B) 17 MPH (AA-5)

THIS AIRPLANE IS NOT APPROVED FOR FLIGHT IN ICING CONDITIONS (AA-5A, AA-5B AND AG-5B). KNOWN ICING CONDITIONS TO BE AVOIDED (AA-5).

THIS AIRPLANE IS CERTIFICATED FOR THE FOLLOWING OPERATIONS AS OF DATE OF ORIGINAL AIRWORTHINESS CERTIFICATE.

IFR, VFR, DAY, NIGHT

REFER TO WEIGHT AND BALANCE FOR LOADING INSTRUCTIONS.

READ FUEL GAUGES IN LEVEL FLIGHT ONLY.

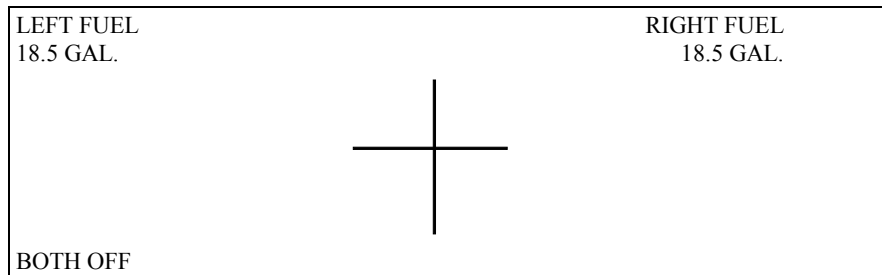
FOR NORMAL OPERATION, MAINTAIN FUEL BALANCE.

- (b) On left side of cabin:
"130 MPH MAXIMUM CANOPY OPEN TO HERE. NO FLIGHT WITH CANOPY OPEN BEYOND THIS POINT."
- (c) In baggage compartment:
"120 POUNDS MAXIMUM BAGGAGE. FOR ADDITIONAL LOADING INSTRUCTIONS, SEE WEIGHT AND BALANCE DATA. NO HEAVY OBJECTS ON HAT SHELF."
- (d) On rear seat base (visible with seat in cargo position):
"NO PASSENGERS. 340 POUNDS MAXIMUM CARGO. DISTRIBUTE EVENLY. FOR ADDITIONAL LOADING INSTRUCTIONS, SEE WEIGHT AND BALANCE DATA AND OWNER'S MANUAL."
- (e) Under rear seat base (visible with rear seat back upright):
"NO STEP - BEFORE FLIGHT - REAR SEAT MUST BE TURNED DOWN TO COVER THIS AREA."
- (f) Near fuel caps:
Model AA-5 and Model AA-5A with Standard Fuel Tanks:

"FUEL MINIMUM 80/87 OCTANE 19 U.S. GAL. CAP"

Model AA-5A with Optional Fuel Tanks:
"FUEL MINIMUM 80/87 OCTANE 26.3 U.S. GAL. CAP"

Model AA-5B and Model AG-5B:
"FUEL MINIMUM 100/100 OCTANE 26.3 U.S. GAL. CAP"
- (g) Fuel control panel:
Model AA-5 and Model AA-5A Standard Fuel Tanks:



Model AA-5A Optional Fuel Tanks, Model AA-5B and Model AG-5B Standard Fuel Tanks:

