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# SECTION I

## GENERAL

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## 1. GENERAL

### A. INTRODUCTION

This service manual contains information to be used by qualified service personnel in the service and maintenance of the American Aviation Yankee (Model AA-1). The information contained herein does in no way supersede AC 43.13-1, Aircraft Inspection and Repair Manual, published by the Federal Aviation Administration (formerly Civil Aeronautics Manual 18).

For specific information not contained within this manual, consult the Customer Service Department

of American Aviation Corporation.

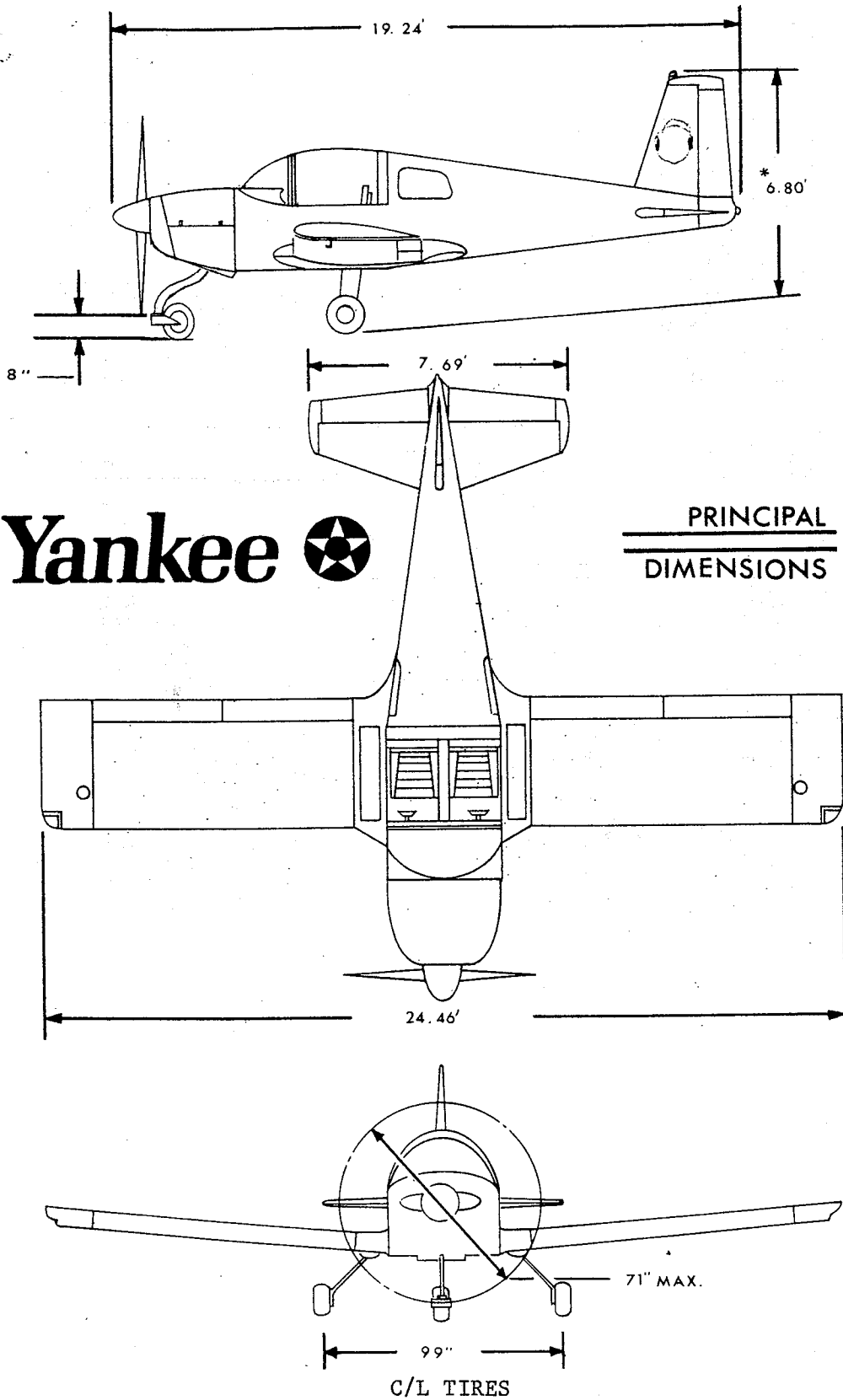
### B. GENERAL DESCRIPTION

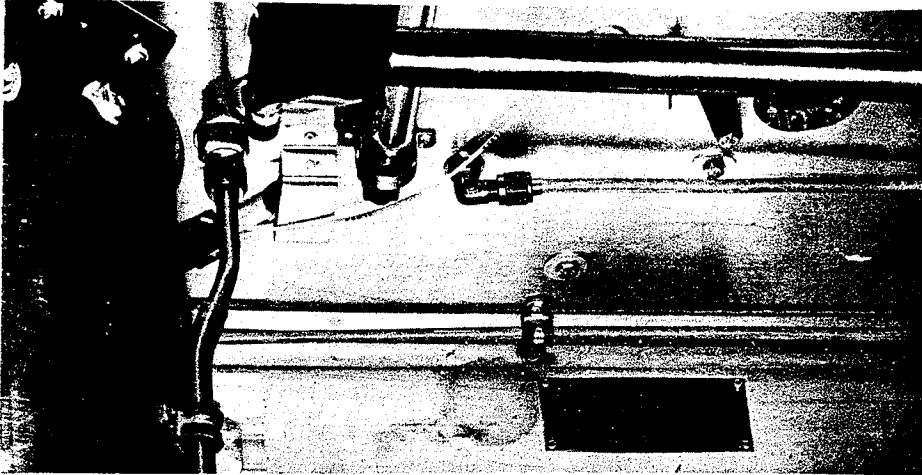
The Yankee is a single engine, low wing, tricycle gear, 2-place airplane. The Yankee features a horizontally opposed, air-cooled, 108-horsepower Lycoming engine; a unique fiberglass main landing gear strut, and an all-metal bonded construction which employs very few structural rivets or fasteners. A sliding, plexiglass canopy affords visibility in all directions.

## SPECIFICATIONS

FAA Type Certificate	A11EA
Gross Weight (Normal Category)	1500 lbs.
Gross Weight (Utility Category)	1430 lbs.
Fuel Capacity	24 gal.
Oil Capacity	6 qts.
Engine	Lycoming O-235-C2C
Propeller (Fixed pitch)	71" McCauley
Length	19.24 ft.
* Height (with flashing beacon)	6.80 ft.
Height (without flashing beacon)	6.64 ft.
Wings	
Span	24.46 ft.
Dihedral	5°
Incidence	3-1/2°
Aileron Travel (Up)	25° ± 2
Aileron Travel (Dn)	20° ± 2
Flap Travel	0° -30° (±2)
Empennage	
Horizontal Tail Incidence	-3°
Vertical Tail Offset	0°
Elevator Travel (Up)	25° ± 2
(Dn)	15° ± 2
Rudder Travel (Left & Right)	25° ± 2
Trim Tab Travel (Up)	3° ± 1
(Dn)	(11°) ± 1
Main Wheel Tire (26 psi)	15 x 6.00 -6 4-ply rating
Nose Wheel Tire (22 psi)	5.00 -5 4-ply rating

# Yankee SERVICE MANUAL





SERIAL NO. PLATE LOCATED UNDER RUG IN FRONT OF LEFT SEAT IN CABIN



TRIM PLATE LOCATED ON UPPER LEFT CORNER OF FIREWALL

NOTE: ON EARLY MODELS, THE TRIM PLATE IS LOCATED ADJACENT TO THE SERIAL NO. PLATE  
ALWAYS GIVE AIRCRAFT SERIAL NUMBER AND TRIM NUMBER WHEN CONTACTING THE FACTORY RELATIVE TO PARTS OR SERVICE



## 1. GENERAL

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### B. GENERAL DESCRIPTION

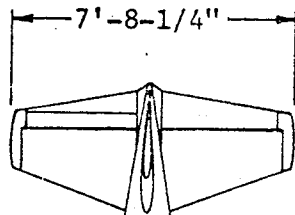
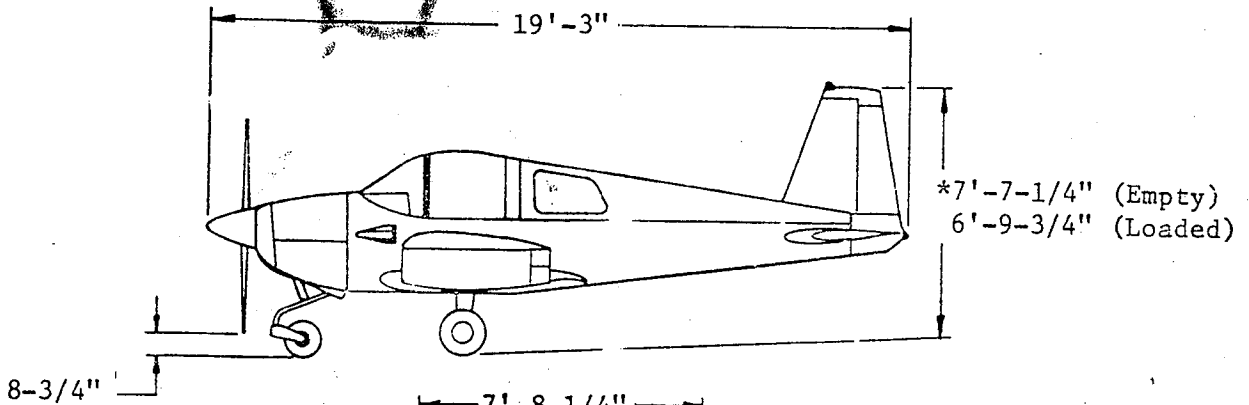
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Aileron Travel (Dn)	20° ± 2
Flap Travel	0° -30° (±2)
Empennage	
Horizontal Tail Incidence	-3°
Vertical Tail Offset	0°
Elevator Travel (Up)	25° ± 2
(Dn)	15° ± 2
Rudder Travel (Left & Right)	25° ± 2
Trim Tab Travel (Up)	3° ± 1
(Dn)	21.5° ± 2
Large main wheel tire (19 psi)	.6.00-6 4 ply rating
Nose wheel tire (22 psi)	.5.00-5 4 ply rating
Small main wheel tire (26 psi)	15X6.00-6 4 ply rating

NOTE: Small main tires and nose gear fork required for wheel fairing installation





AA-1A TRAINER

PRINCIPAL DIMENSIONS

