

**AA-5 SERIES
MAINTENANCE MANUAL**

CHAPTER 6
DIMENSIONS AND AREAS
TABLE OF CONTENTS

| <u>NUMBER</u> | | <u>PAGE</u> |
|---------------|---|-------------|
| 6-0 | PRINCIPAL DIMENSIONS | |
| | General | 1 |
| | Principal Dimensions (AA-5 Aircraft) | 1 |
| | Principal Dimensions (AA-5A and AA-5B Aircraft) | 1 |
| 6-1-1 | STATION LOCATIONS | |
| | General | 1 |
| | Station Locations (AA-5 Aircraft) | 1 |
| | Station Locations (AA-5A and AA-5B Aircraft) | 1 |
| 6-2-1 | SPECIFICATIONS | |
| | General | 1 |
| | Specifications, AA-5, AA-5A and AA-5B Aircraft | 1 |

**AA-5 SERIES
MAINTENANCE MANUAL**

PRINCIPAL DIMENSIONS

1. General

This section provides, in diagram form, the principal dimensions for the AA-5, AA-5A and AA-5B aircraft.

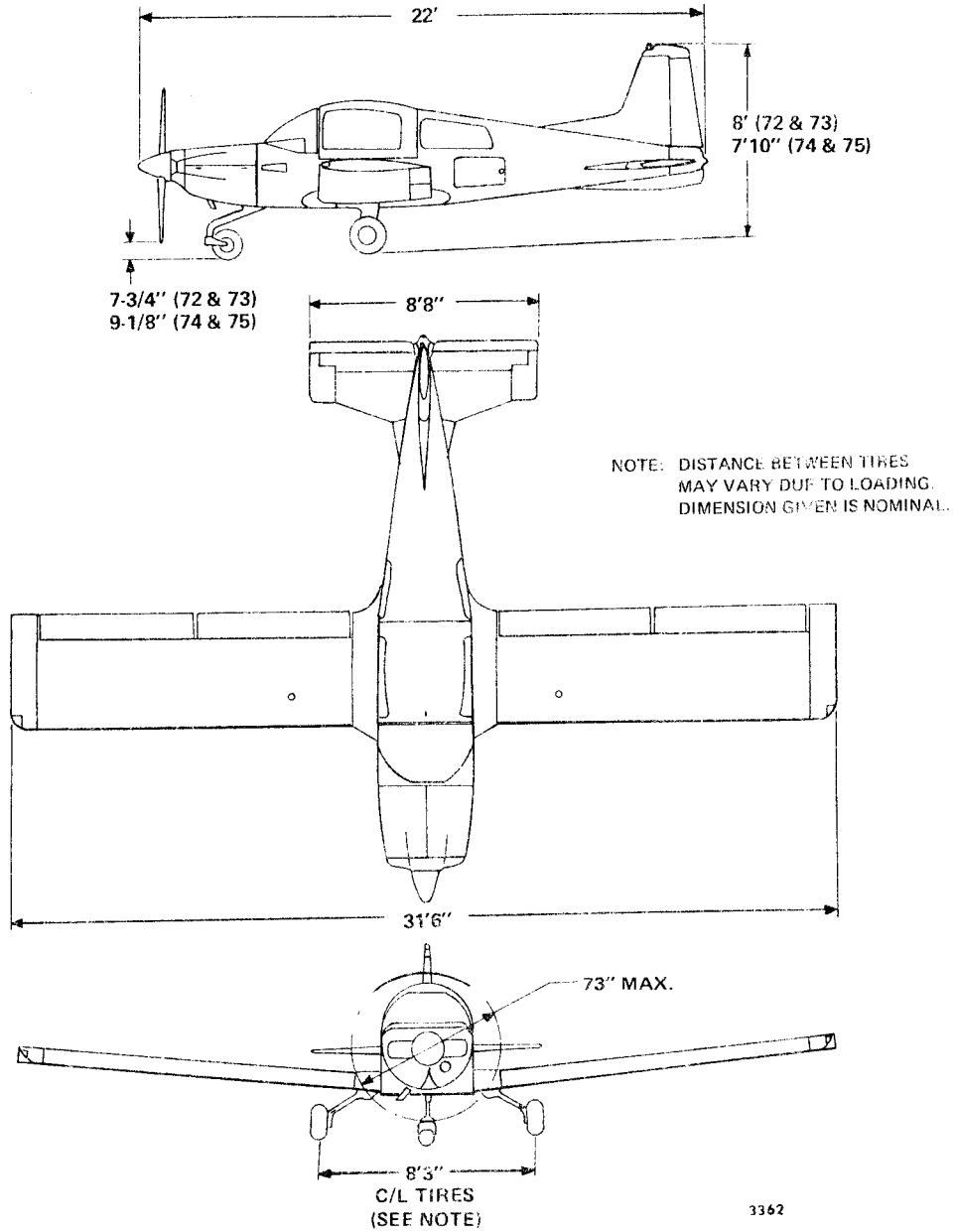
2. Principal Dimensions (AA-5 Aircraft)

Principal dimensions for the AA-5 aircraft are presented in Figure 1.

3. Principal Dimensions (AA-5A and AA-5B Aircraft)

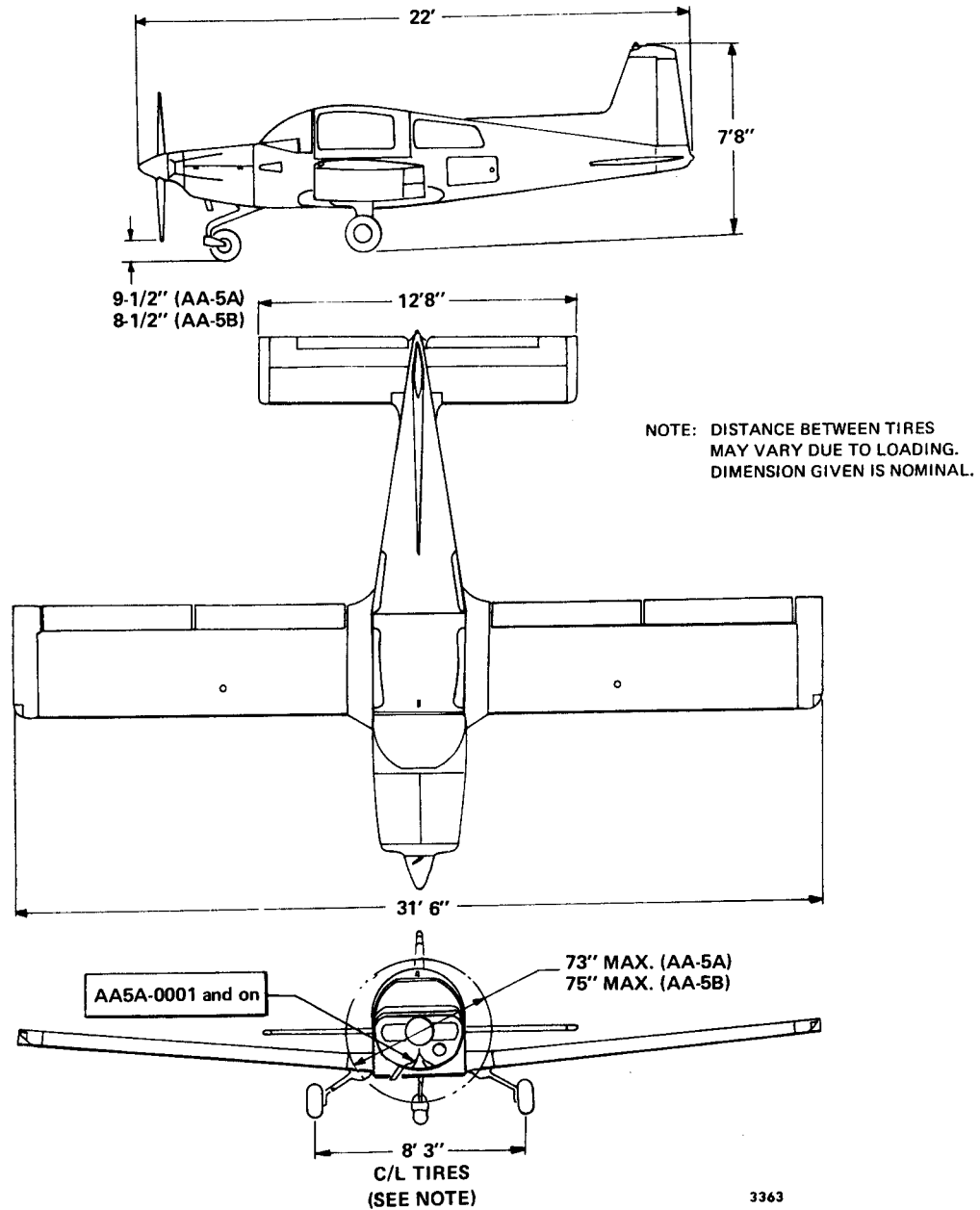
Principal dimensions for the AA-5A and AA-5B aircraft are presented in Figure 2.

AA-5 SERIES
MAINTENANCE MANUAL



Principal Dimensions (AA-5 Aircraft)
Figure 1

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MAINTENANCE MANUAL**



**Principal Dimensions (AA-5A and AA-5B Aircraft)
Figure 2**

**AA-5 SERIES
MAINTENANCE MANUAL**

STATION LOCATIONS

1. General

This section provides, in diagram form, the station locations for the AA-5, AA-5A and AA-5B aircraft.

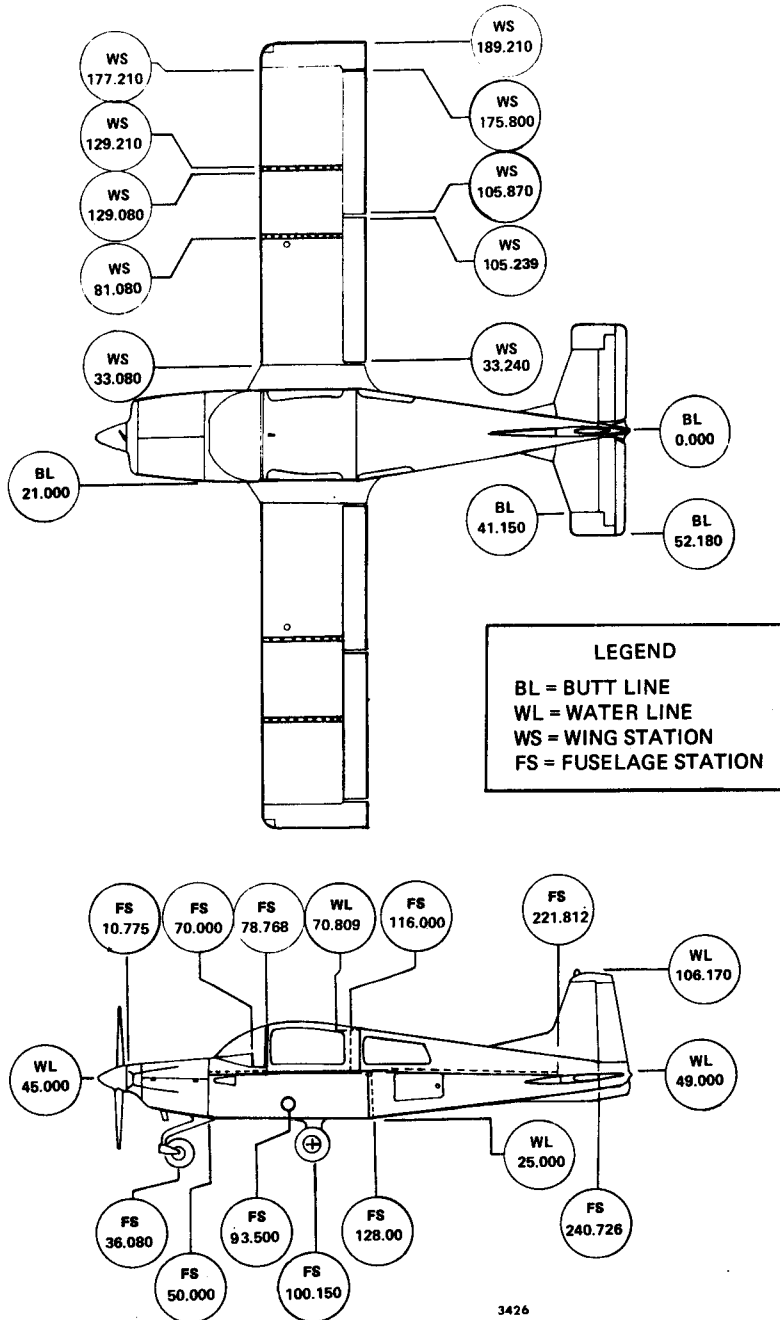
2. Station Locations (AA-5 Aircraft)

Station locations for the AA-5 aircraft are presented in Figure 1.

3. Station Locations (AA-5A and AA-5B Aircraft)

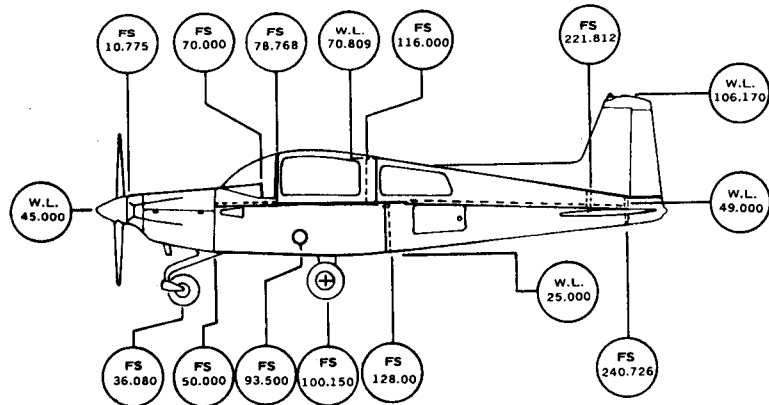
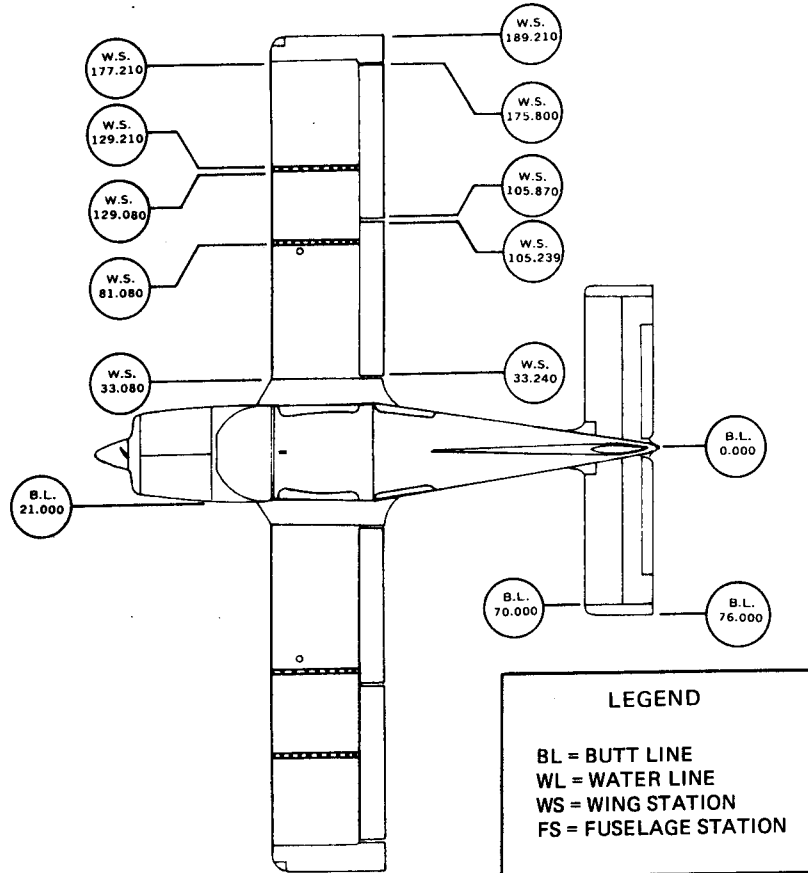
Station locations for the AA-5A and AA-5B aircraft are presented in Figure 2.

**AA-5 SERIES
MAINTENANCE MANUAL**



**Station Locations (AA-5 Aircraft)
Figure 1**

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MAINTENANCE MANUAL**



**Station Locations (AA-5A and AA-5B Aircraft)
Figure 2**

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MAINTENANCE MANUAL**

SPECIFICATIONS

1. General

This section provides, in tabular form, the major specifications for the AA-5, AA-5A and AA-5B aircraft.

2. Specifications, AA-5, AA-5A and AA-5B Aircraft

The major specifications for the AA-5, AA-5A and AA-5B aircraft are as follows:

| | <u>AA-5</u> | <u>AA-5A</u> | <u>AA-5B</u> |
|------------------------------------|---|---|---|
| <u>FAA Type Certificate</u> | A16EA | A16EA | A16EA |
| <u>Gross Weight (Normal Cat.)</u> | 2200 lbs. | 2200 lbs. | 2400 lbs. |
| <u>Gross Weight (Utility Cat.)</u> | 1850 lbs. | 1850 lbs. | 2050 lbs. |
| <u>Fuel Capacity</u> | 37 gal. | 37 gal. (51 Opt.) | 51 gal. |
| <u>Oil Capacity</u> | 8 qts. | 8 qts. | 8 qts. |
| <u>Engine</u> | Lycoming 0-320-E2G 150 HP @ 2700 RPM | Lycoming 0-320-E2G 150 HP @ 2700 RPM | Lycoming 0-360-A4K 180 HP @ 2700 RPM |
| <u>Propeller (Fixed Pitch)</u> | McCauley 73" Dia. | McCauley 73" Dia. | McCauley 75" Dia. |
| <u>Spinner</u> | Req'd Equipment | Req'd Equipment | Req'd Equipment |
| <u>Length</u> | 22' | 22' | 22' |
| <u>Height</u> | 8' (1972 & 1973) 7'10" (1974 & 1975) | 7'-8" | 7'-8" |
| <u>Wings:</u> | | | |
| Span | 31'-6" | 31'-6" | 31'-6" |
| Dihedral | 5° | 5° | 5° |
| Incidence | 1° 25' | 1° 25' | 1° 25' |
| Aileron Travel (Up) (Dn) | 15° +2° -0° 7 ½° + 2 ½° - 0° | 15° +2° -0° 7 ½° + 2 ½° - 0° | 15° +2° -0° 7 ½° + 2 ½° - 0° |
| Flap Travel | 30° ± 3° | 45° ± 2° | 45° ± 2° |

**AA-5 SERIES
MAINTENANCE MANUAL**

| | AA-5 | AA-5A | AA-5B |
|------------------------------|--------------------------|--------------------------|--------------------------|
| Max Difference Between Flaps | 1° | 1° | 1° |
| <u>Empennage:</u> | | | |
| Horizontal Tail Incidence | -3° | 0° | 0° |
| Vertical Tail Offset | 0° | 0° | 0° |
| Elevator Travel (Up) | 30° ± 2° | 24° ± 2° | 24° ± 2° |
| (Dn) | 20° ± 2° | 17° ± 2° | 17° ± 2° |
| Rudder Travel (Lt & Rt) | 25° ± 2° | 25° ± 2° | 25° ± 2° |
| Trim Tab Travel (Up) | 16° ± 2° | 14° ± 3° | 14° ± 3° |
| (Dn) | 19° ± 2° | 30° ± 1° | 30° ± 1° |
| <u>Main Wheel Tire</u> | 6.00 x 6 4 ply rating | 6.00 x 6 4 ply rating | 6.00 x 6 6 ply rating |
| Pressure | 24 psi | 24 psi | 35 psi |
| <u>Nose Wheel Tire</u> | 5.00 x 5 4 ply rating | 5.00 x 5 4 ply rating | 5.00 x 5 4 ply rating |
| Pressure | 21 psi | 21 psi | 25 psi |