

**Transport Canada Approved Flight Manual Supplement
For**


**GAR-AERO WHEEL ADAPTERS &
8.50-10 TIRES**

This supplemental manual is applicable to Gar-Aero Wheel Adapters & 8.50-10 tires equipped FBA-2C2 airplanes or Gar-Aero Wheel Adapters & 8.50-10 tires equipped FBA-2C1 airplanes with Mod 1043 installed. Mod 1043 replaces the plain flap system on the model FBA-2C1 airplane with a slotted Fowler-type flap system (commonly referred to as "Fowler Flaps"). Therefore where 2C2 is used in this manual it is acceptable to read 2C1 with Mod 1043 installed.

This Supplement must be attached to the Transport Canada Approved Airplane Flight Manual when the airplane is modified by the installation of Gar-Aero wheel adapters and 8.50-10 tires in accordance with drawing D247 Issue 2 or later approved revision.

The information contained herein supplements or supersedes the basic flight manual, airplane markings and/or placards only in those areas listed herein.

For Limitations, Procedures, and Performance information not contained in this Supplement, consult the airplane markings and placards and/or basic Airplane Flight Manual, (P/N: FAC2-M400).

Approved: 

Date: 15 APRIL 2004

P/N M400-S03

LOG OF REVISIONS

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SECTION 1 GENERAL

INTRODUCTION

This supplemental manual is applicable to Gar-Aero Wheel Adapters & 8.50-10 tires equipped FBA-2C2 airplanes or Gar-Aero Wheel Adapters & 8.50-10 tires equipped FBA-2C1 airplanes with Mod 1043 installed. Mod 1043 replaces the plain flap system on the model FBA-2C1 airplane with a slotted Fowler-type flap system (commonly referred to as “Fowler Flaps”). Therefore where 2C2 is used in this manual it is acceptable to read 2C1 with Mod 1043 installed.

This supplement provides information and limitations not included in the Transport Canada approved markings and placards, and/or Airplane Flight Manual (P/N: FAC2-M400).

The aircraft is to be operated under the “NORMAL CATEGORY” only.

DESCRIPTIVE DATA

MAXIMUM CERTIFICATED WEIGHTS

Maximum Operational Weight:

Takeoff:	3500 lbs
Landing:	3500 lbs

STANDARD AIRPLANE WEIGHTS

Standard Empty Weight:	1970 lbs *
Maximum Useful Load:	1530 lbs *

* the above weights may vary depending on configuration.

SPECIFIC LOADINGS

Wing Loading:	19.4 lbs/sq.ft.
Power Loading:	11.7 lbs/hp

SECTION 2 LIMITATIONS

AIRSPEED LIMITATIONS

Unchanged from the landplane, see Airplane Flight Manual P/N: FAC2-M400.

WEIGHT LIMITS

Unchanged from the landplane, see Airplane Flight Manual P/N: FAC2-M400.

CENTER-OF-GRAVITY LIMITS

Unchanged from the landplane, see Airplane Flight Manual P/N: FAC2-M400.

PLACARDS

Unchanged from the landplane, see Airplane Flight Manual P/N: FAC2-M400.

SECTION 3 EMERGENCY PROCEDURES

Unchanged from the landplane, see Airplane Flight Manual P/N: FAC2-M400.

SECTION 4 NORMAL PROCEDURES

Unchanged from the landplane, see Airplane Flight Manual P/N: FAC2-M400.

SECTION 5 PERFORMANCE

AIRSPPEED CALIBRATION

Airspeed calibrations are unchanged from the Fowler flap landplane. Refer to airspeed calibration presented in section 5 of Airplane Flight Manual, P/N: FAC2-M400.

STALL SPEEDS

Stall speeds are essentially unchanged from the landplane. Refer to stall speeds presented in section 5 of Airplane Flight Manual, P/N: FAC2-M400.

TAKEOFF DISTANCE

SHORT FIELD TAKEOFF DISTANCE ON TUNDRA TIRE AT 3500 POUNDS

CONDITIONS:

FLAPS: 20 deg.

FULL THROTTLE PRIOR TO BRAKE RELEASE, 2700 RPM

PAVED, LEVEL, DRY RUNWAY

ZERO WIND

LIFT OFF SPEED 60 KIAS

50FT SPEED 65 KIAS

Pressure Altitude (ft)	0°C		10°C		20°C		30°C		40°C	
	GND DIST. (ft)	TOTAL DIST. (ft)	GND DIST. (ft)	TOTAL DIST. (ft)	GND DIST. (ft)	TOTAL DIST. (ft)	GND DIST. (ft)	TOTAL DIST. (ft)	GND DIST. (ft)	TOTAL DIST. (ft)
0	831	1431	893	1526	960	1631	1033	1743	1111	1865
1000	924	1580	994	1689	1072	1809	1155	1938	1245	2079
2000	1034	1756	1115	1882	1204	2021	1300	2172	1404	2335
3000	1165	1968	1259	2115	1363	2278	1475	2455	1597	2649
4000	1314	2209	1423	2382	1543	2573	1675	2783	1820	3016
5000	1495	2503	1622	2709	1765	2937	1924	3193	2100	3479
6000	1716	2869	1870	3120	2044	3403	2239	3723	2458	4088
7000	1997	3406	2188	3728	2406	4096	2654	4525	---	---
8000	2366	4120	2610	4557	---	---	---	---	---	---

NOTES:

1. Decrease total distance by 10% for each 10 knots headwind.
2. In tailwinds, increase total distance 10% for each 2 knots.
3. For operation on dry glass runways, increase above ground roll distances by 15%
4. For operation in outside air temperatures colder than this table provides, use coldest data shown.
5. For operation in outside air temperatures warmer than this table provides, use extreme caution.

BEST ANGLE-OF-CLIMB

The Best-Angle-of-Climb performance of the Tundra Tire equipped landplane is approximately reduced by 0.2 degrees from the standard landplane climb performance. Refer to Best Angle of Climb Chart presented in section 5 of Airplane Flight Manual, P/N: FAC2-M400.

BEST RATE-OF-CLIMB

The Best-Rate-of-Climb performance of the Tundra Tire equipped landplane is approximately reduced by 45 ft/min from the standard landplane climb performance. Refer to Best Rate of Climb Chart presented in section 5 of Airplane Flight Manual, P/N: FAC2-M400.

LANDING DISTANCE

Not available at this time.

SECTION 6

WEIGHT AND BALANCE

The airplane equipped with Gar-Aero wheel adapters and 8.50-10 tires must be loaded in accordance with the limitations in Section 2.

WARNING

IT IS THE RESPONSIBILITY OF THE AIRPLANE OWNER AND PILOT TO INSURE THAT THE AIRPLANE IS LOADED PROPERLY.

REFERENCE DATUM

The reference datum for the Tundra Tire equipped landplane is the main gear axle. Unchanged from the landplane, see Airplane Flight Manual P/N: FAC2-M400 Section 6.

WEIGHING PROCEDURES

Unchanged from the landplane, see Airplane Flight Manual P/N: FAC2-M400 Section 6.

WEIGHT AND BALANCE PROCEDURES

Unchanged from the landplane, see Airplane Flight Manual P/N: FAC2-M400 Section 6.