



# SAITO FA-82B

4-Stroke Single Engine Operating instructions

We would like to express our sincere thanks for your purchase of the SAITO FA-82B engine, which is manufactured by SAITO SEISAKUSHO CO., LTD. Please read our instructions carefully and treat your engine with care. Should there be a manufacturing defect, SAITO SEISAKUSHO CO., LTD. will make necessary repairs at free of charge. You will notice a letter (A, A.C etc.) stamped on the top of the right mounting lug. This identifies the production version of your engine. If you ever need to order a part or have a question about your engine, specify this letter along with the part number you need so we can better handle your request.



This engine is designed and manufactured based on high efficiency and durability of the first AAC method in the world. AAC: Aluminum Piston, Aluminum Cylinder, Hard chrome Plated. SAITO FA-82B engines have been designed placing emphasis on the lightweight and compact.

## Unique features of SAITO FA-82B engines include:

- Cylinder
  - By the monolithic structure of cylinder head and cylinder with direct hard chrome plated inner surface without using cylinder liner, this engine emphasizes durability while it also offers lightweight and distortion-free structure with improved cooling efficiency.
- Piston
  - High silicon content aluminum is used in the piston construction. It also has a compression ring that increases the engine's efficiency.
- Crankshaft
  - Made of solid chrome molybdenum steel, and supported by two ball bearings.
- Combustion chamber
  - Increased combustion efficiency with improved hemispherical shape.
- Exhaust sound
  - Real plane-like exciting exhaust sound.
- Weight
  - Lightest level in the class.
- Mounting dimensions: A mounting dimension is the same with those of FA-56, 62, 72, 82.

## Specifications

Bore	29.0mm	Stroke	30.4mm	Disp.	13.4cc
Weight	Body: 477g (Approx. 528g with oil)				
Practical speed	Approx. 2,000-12,000rpm		Max on Gnd	Approx. 9,000-11,000rpm	
Propeller	APC 13"x 7" - 13"x 8" 14"x 5" - 14"x 6"				
Fuel	Synthetic oil with 10~30% nitro methane content		Applications	Airplane of 2 cycle 40-60 class	
Fuel consumption	Approx. 35cc/min (At full throttle 10,000rpm) *Fuel flow varies depends upon prop load. More fuel flow with larger load and less fuel flow with smaller load.				
Standard accessories	Spanner for tappet adjusting lock nut	1pc	Main needle valve extension bar	1 each	
	Limit gauge (G.I.) for tappet adjustment	1pc	Muffler nut	1 set	
	Hexagonal wrench set	1 set	SAIOP 01 Glow plug (Attached to the engine)	1pc	

# Saito 82 Engine Manual

**CL Gary**



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## **Table of Contents Saito 82 Engine Manual**

1. Understanding the eBook Saito 82 Engine Manual
  - The Rise of Digital Reading Saito 82 Engine Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Saito 82 Engine Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Saito 82 Engine Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Saito 82 Engine Manual
  - Personalized Recommendations
  - Saito 82 Engine Manual User Reviews and Ratings
  - Saito 82 Engine Manual and Bestseller Lists
5. Accessing Saito 82 Engine Manual Free and Paid eBooks
  - Saito 82 Engine Manual Public Domain eBooks
  - Saito 82 Engine Manual eBook Subscription Services
  - Saito 82 Engine Manual Budget-Friendly Options
6. Navigating Saito 82 Engine Manual eBook Formats

- ePub, PDF, MOBI, and More
- Saito 82 Engine Manual Compatibility with Devices
- Saito 82 Engine Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Saito 82 Engine Manual
  - Highlighting and Note-Taking Saito 82 Engine Manual
  - Interactive Elements Saito 82 Engine Manual
- 8. Staying Engaged with Saito 82 Engine Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Saito 82 Engine Manual
- 9. Balancing eBooks and Physical Books Saito 82 Engine Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Saito 82 Engine Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Saito 82 Engine Manual
  - Setting Reading Goals Saito 82 Engine Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Saito 82 Engine Manual
  - Fact-Checking eBook Content of Saito 82 Engine Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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