

## O.S. FS-40 "SURPASS"

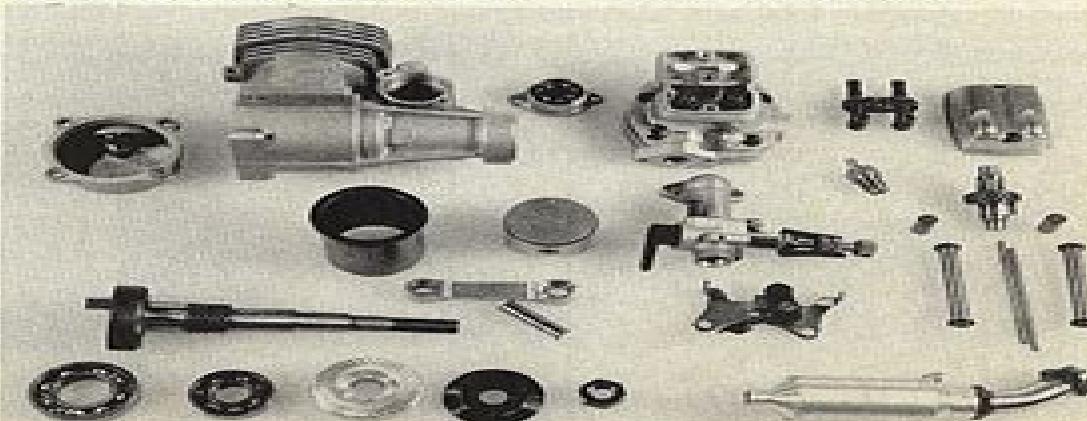
In 1976, Mr. Shigeo Ogawa, who heads O.S. Engines, introduced the O.S. FS-60, the world's first mass produced 4-stroke glow engine. His primary objective was a quiet running engine that could be operated on ordinary 2-stroke glow fuel. Japan, with its high density population, has even more of a noise problem and loss of flying sites than we do here in the U.S. The FS-60 met the requirement very nicely and was actually quite a gamble on Mr. Ogawa's part in not knowing whether or not the modeling world would accept a 4-stroke engine for their R/C aircraft. Other manufacturers had attempted to market 4-stroke spark ignition engines over the years without much success except for limited marine use. Obviously the modeling world was now ready for 4-stroke engine power and Mr. Ogawa's gamble paid off. Following the success of the O.S.

FS-60, other model engine manufacturers also entered the 4-stroke engine field. Kalt, who no longer produces engines, came out with a .45 size 4-stroke, and was followed shortly after by Saito with their FA-30 which, at the time, was the smallest 4-stroke engine available. Enya soon introduced a .60 size 4-stroke engine with considerably more power than the original O.S. FS-60, and it wasn't long before the horsepower race was on. Each 4-stroke engine manufacturer was attempting to produce a more powerful engine than his competitors. O.S., realizing that this increase in horsepower also meant an increase in the noise level went along with the game. They did

not particularly try to push their engines based on horsepower ratings, although O.S. engines have always been very competitive. Although O.S. has always played it low key in the power department in the past, they have evidently now decided to openly join in the horsepower race. This past month we received the first of a new line of high performance 4-stroke engines which O.S. has named the "Surpass" line. The new engine line is comprised of a .40, .48, and .120 with the .40 (our review engine for this month) being the first engine in the line to be released at the time of this writing. So let's take a look at the new O.S. FS-40 Surpass and see how it compares with the older standard FS-40.

### SPECIFICATIONS

Type: Single cylinder, 4-stroke cycle, air cooled, glow ignition  
 Bore: 21.2 mm (.8364")  
 Stroke: 18.4 mm (.7244")  
 Displacement: 6.49cc (.3964 cu. in.)  
 Compression ratio: 9.1:1  
 Rated horsepower: .65 @ 12,000 rpm (manufacturer)  
 Operating range: 2,200-12,000 rpm  
 Weight: 13.2 oz. (with muffler)  
 Manufacturer: O.S. Engines Mfg. Co., Ltd., Osaka, Japan  
 U.S. Importer: Great Planes Model Distributors, Champaign, Illinois



# Os 71 Fs Surpass Manual

**John Sherman Porter**

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## **Table of Contents Os 71 Fs Surpass Manual**

1. Understanding the eBook Os 71 Fs Surpass Manual
  - The Rise of Digital Reading Os 71 Fs Surpass Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Os 71 Fs Surpass 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 Os 71 Fs Surpass Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Os 71 Fs Surpass Manual
  - Personalized Recommendations
  - Os 71 Fs Surpass Manual User Reviews and Ratings

- Os 71 Fs Surpass Manual and Bestseller Lists
- 5. Accessing Os 71 Fs Surpass Manual Free and Paid eBooks
  - Os 71 Fs Surpass Manual Public Domain eBooks
  - Os 71 Fs Surpass Manual eBook Subscription Services
  - Os 71 Fs Surpass Manual Budget-Friendly Options
- 6. Navigating Os 71 Fs Surpass Manual eBook Formats
  - ePUB, PDF, MOBI, and More
  - Os 71 Fs Surpass Manual Compatibility with Devices
  - Os 71 Fs Surpass Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Os 71 Fs Surpass Manual
  - Highlighting and Note-Taking Os 71 Fs Surpass Manual
  - Interactive Elements Os 71 Fs Surpass Manual
- 8. Staying Engaged with Os 71 Fs Surpass Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Os 71 Fs Surpass Manual
- 9. Balancing eBooks and Physical Books Os 71 Fs Surpass Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Os 71 Fs Surpass Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Os 71 Fs Surpass Manual
  - Setting Reading Goals Os 71 Fs Surpass Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Os 71 Fs Surpass Manual
  - Fact-Checking eBook Content of Os 71 Fs Surpass 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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