

SUZUKI DT8C, DT8C SAIL, DT9.9C and DT9.9C SAIL

CONDENSED SERVICE DATA

NOTE: Metric fasteners are used throughout outboard motor.

TUNE-UP

Hp/rpm	8/4700-5700 (6.0 kW) 9.9/5300-5700 (7.4 kW)
Bore	54.0 mm (2.13 in.)
Stroke	46.0 mm (1.81 in.)
Number of Cylinders	2
Displacement	211 cc (12.9 cu. in.)
Spark Plug	NGK B6HS-10
Electrode Gap	0.9-1.0 mm (0.035-0.039 in.)
Ignition Type	CIN
Ignition Timing	11° ATDC at 600 rpm (1)
Maximum Timing Advance	28° BTDC at 2000 rpm
Carburetor Make	Mikuni B24
Compression Ratio	7.2:1
Idle Speed (in gear)	600-650 rpm
Fuel-Oil Ratio	See Text

(1)—On 1988 DT9.9C models, ignition timing is 12 degrees ATDC at 600 rpm.

SIZES-CLEARANCES

Piston Ring End Gap	0.15-0.30 mm (0.006-0.012 in.)
Wear Limit	0.8 mm (0.030 in.)
Piston-to-Cylinder Clearance	0.052-0.067 mm (0.0020-0.0026 in.)

SIZES—CLEARANCES CONT.

Wear Limit	0.147 mm (0.0058 in.)
Piston Pin Diameter	11.995-12.000 mm (0.4722-0.4724 in.)
Wear Limit	11.980 mm (0.4716 in.)
Cylinder Bore Diameter	54.000-54.015 mm (2.1260-2.1266 in.)
Piston Diameter	53.940-53.955 mm (2.1236-2.1242 in.)
Allowable Crankshaft Runout	0.05 mm (0.002 in.)
Allowable Connecting Rod Small End Side Shake	4.0 mm (0.157 in.)

TIGHTENING TORQUES

Crankcase Screws	20-26 N·m (15-19 ft.-lbs.)
Cylinder Head Screws	21-25 N·m (15-18 ft.-lbs.)
Flywheel Nut	80-90 N·m (59-66 ft.-lbs.)
Standard Screws:	
5 mm	2-4 N·m (18-35 in.-lbs.)
6 mm	4-7 N·m (35-62 in.-lbs.)
8 mm	10-16 N·m (7-12 ft.-lbs.)
10 mm	22-35 N·m (16-26 ft.-lbs.)

LUBRICATION

The power head is lubricated by oil mixed with the fuel. All models are equipped with automatic oil injection. The recommended oil is Suzuki Outboard Motor Oil or a good quality NMMA certified TC-W oil. Recommended fuel is unleaded gasoline with a minimum octane rating of 85.

On a new or rebuilt engine, the first tank of fuel should be mixed with a recommended oil at a 50:1 ratio and used in addition with the oil injection system to ensure sufficient lubrication during engine break-in. Gasoline and oil should be thoroughly mixed in a separate container. After first tank of fuel is depleted, switch to straight gasoline in fuel tank.

Recommended lower unit lubricant is Suzuki Outboard Motor Gear Oil or a good quality SAE 90 hypoid gear oil. Gearcase capacity is 175 mL (5.9 oz.). Gearcase oil should be changed after initial 10 hours of operation and after every 100 hours of operation thereafter. Reinstall drain and vent plugs securely, using new gaskets if necessary to ensure a watertight seal.

FUEL SYSTEM

CARBURETOR. A Mikuni B24-15 carburetor is used on 8 hp models and a Mikuni B24-18 carburetor is used on 9.9 hp models. Refer to Fig. S27-1 for exploded view of carburetor assembly. Initial adjustment of pilot screw (2) from

a lightly seated position is 1-1/2 to 2 turns out on Model DT8C and 1-3/4 to 2-1/4 turns out on Model DT9.9C. Final adjustment should be made with engine at normal operating temperature and running in forward gear. Adjust idle speed to 600-650 rpm in forward gear.

Main fuel metering is controlled by fixed main jet (15). Standard main jet size for normal operation is #105 on Model DT8C and #137.5 on Model DT9.9C. Standard pilot jet (5) size for normal operation is #85 on Model DT8C and #65 on Model DT9.9C.

To check float level, remove float bowl (10) and invert carburetor. Measure float level from carburetor body-to-float bowl mating surface to top of float at a point 180 degrees from inlet valve as shown in Fig. S27-2. Float level should be 23-

Suzuki Dt2outboard Service Manual

Mike Jess



Suzuki Dt2outboard Service Manual:

Suzuki Outboard Motor, DT2 ,1976* **Boating** ,1978-07 **Suzuki Outboard Motor DT 50/60/65 ,1987** **Suzuki**
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DT115 DT140 *Suzuki DT 3.5 Service Manual ,1979* **Suzuki 2-225 HP OB & Jt D85-91** Penton Staff,2000-05-24 DT 2
DT 4 DT 6 DT 8 DT 8 SAIL DT 9 9 DT 9 9 SAIL DT 15 DT 20 DT 25 DT 30 DT 35 DT 40 DT 55 DT 65 DT 75 DT 85 DT 90 DT
100 DT 100 SUPER FOUR DT 115 DT 140 DT 150 DT 150 SUPER SIX DT 175 DT 200 DT 200 EXANTE DT 225 *Yamaha*
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Table of Contents Suzuki Dt2outboard Service Manual

1. Understanding the eBook Suzuki Dt2outboard Service Manual
 - The Rise of Digital Reading Suzuki Dt2outboard Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Suzuki Dt2outboard Service 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 Suzuki Dt2outboard Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Suzuki Dt2outboard Service Manual
 - Personalized Recommendations
 - Suzuki Dt2outboard Service Manual User Reviews and Ratings
 - Suzuki Dt2outboard Service Manual and Bestseller Lists

5. Accessing Suzuki Dt2outboard Service Manual Free and Paid eBooks
 - Suzuki Dt2outboard Service Manual Public Domain eBooks
 - Suzuki Dt2outboard Service Manual eBook Subscription Services
 - Suzuki Dt2outboard Service Manual Budget-Friendly Options
6. Navigating Suzuki Dt2outboard Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Suzuki Dt2outboard Service Manual Compatibility with Devices
 - Suzuki Dt2outboard Service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Suzuki Dt2outboard Service Manual
 - Highlighting and Note-Taking Suzuki Dt2outboard Service Manual
 - Interactive Elements Suzuki Dt2outboard Service Manual
8. Staying Engaged with Suzuki Dt2outboard Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Suzuki Dt2outboard Service Manual
9. Balancing eBooks and Physical Books Suzuki Dt2outboard Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Suzuki Dt2outboard Service Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Suzuki Dt2outboard Service Manual
 - Setting Reading Goals Suzuki Dt2outboard Service Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Suzuki Dt2outboard Service Manual
 - Fact-Checking eBook Content of Suzuki Dt2outboard Service 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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