

Section 0

General Information

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General Information

Specifications

Specifications (DF9.9B)

CENDK1120107004

NOTE

These specifications are subject to change without notice.

Model Pre-Fix

Item	Unit	Data		
		DF9.9B	DF9.9BE	DF9.9BR
PRE-FIX		00995F		

Dimensions and Weight

Item	Unit	Data		
		DF9.9B	DF9.9BE	DF9.9BR
Overall length (front to back)	mm (in.)	662 (26.1)		609 (24.0)
Overall width (side to side)	mm (in.)	336 (13.2)		
Overall height	S	1 093 (43.0)		
	L	1 220 (48.0)		
Weight (without engine oil)	S	44 (97)	48 (106)	47 (104)
	L	45 (99)	49 (108)	48 (106)
Transom height	S	422 (15)		
	L	549 (20)		

Performance

Item	Unit	Data		
		DF9.9B	DF9.9BE	DF9.9BR
Maximum output	kW (PS)	7.3 (9.9)		
Recommended operating range	r/min	4 700 – 5 700		
Idle speed	r/min	850 ± 50 (in-gear: Approx. 800 – 900)		

Powerhead

Item	Unit	Data		
		DF9.9B	DF9.9BE	DF9.9BR
Engine type		4-stroke SOHC		
Number of cylinders		2		
Bore	mm (in.)	60.4 (2.38)		
Stroke	mm (in.)	57.0 (2.24)		
Total displacement	cm ³ (cu. in)	327 (19.9)		
Compression ratio	: 1	10.5		
Spark plug	NGK	CPR6EA-9		
Ignition system		Digital CDI		
Fuel supply system		Electronic fuel injection		
Exhaust system		Through prop exhaust		
Cooling system		Water cooled		
Lubrication system		Wet sump by trochoid pump		
Starting system		Manual	Electric	
Throttle control		Twist grip		Remote control
Choke system		—		

Fuel and Oil

Item	Unit	Data		
		DF9.9B	DF9.9BE	DF9.9BR
Fuel		Suzuki highly recommends the use of alcohol-free unleaded gasoline with a minimum pump octane rating of 87 (R/2 + M/2 method) or 91 (Research method). However, blends of unleaded gasoline and alcohol with equivalent octane content may be used.		
Engine oil		- API classification: SG, SH, SJ, SL, SM or NMMA FC-W classification: SG, SH, SJ, SL, SM - Viscosity rating: SAE 10W-40 or NMMA FC-W 10W-40		
Engine oil amounts	L (US/Imp. qt)	1.0 (1.1/0.9): Oil change only 1.1 (1.2/1.0): Oil filter change		
Gear oil		SUZUKI Outboard Motor Gear Oil or SAE 90 hypoid gear oil, API classification GL-5.		
Gearcase oil capacity	ml (US/Imp. oz)	250 (8.4/8.8)		

Bracket

Item	Unit	Data		
		DF9.9B	DF9.9BE	DF9.9BR
Trim angle	degree	0 – 16 (–8 to 8)		
Number of tilt pin position		5		
Maximum tilt angle	degree	73 (–8 to 65)		

Lower Unit

Item	Unit	Data		
		DF9.9B	DF9.9BE	DF9.9BR
Reversing system		Gear		
Transmission		Forward-Neutral-Reverse		
Reduction system		Bevel gear		
Gear ratio		12 : 25 (2.08)		
Drive line impact protection		Spline drive rubber hub		
Propeller shaft rotation (When shift into forward)		Clockwise		
Propeller		Blade x Dia. (in.) x Pitch (in.)		
		3 x 9 and 1/4 x 7		
		3 x 9 and 1/4 x 8		
		3 x 9 and 1/4 x 9		
		3 x 9 and 1/4 x 10		
		3 x 9 and 1/4 x 11		

0A-3 General Information:**Specifications (DF15A/E/R, DF20A/E/R)**

CENDK1120107005

NOTE

These specifications are subject to change without notice.

Model Pre-Fix

Item	Unit	Data					
		DF15A	DF15AE	DF15AR	DF20A	DF20AE	DF20AR
PRE-FIX		01504F			02002F		

Dimensions and Weight

Item		Unit	Data					
			DF15A	DF15AE	DF15AR	DF20A	DF20AE	DF20AR
Overall length (front to back)		mm (in.)	662 (26.1)		609 (24.0)	662 (26.1)		609 (24.0)
Overall width (side to side)		mm (in.)	336 (13.2)					
Overall height	S	mm (in.)	1 093 (43.0)					
	L	mm (in.)	1 220 (48.0)					
Weight (without engine oil)	S	kg (lbs)	44 (97)	48 (106)	47 (104)	44 (97)	48 (106)	47 (104)
	L	kg (lbs)	45 (99)	49 (108)	48 (106)	45 (99)	49 (108)	48 (106)
Transom height	S	mm (in. type)	422 (15)					
	L	mm (in. type)	549 (20)					

Performance

Item	Unit	Data					
		DF15A	DF15AE	DF15AR	DF20A	DF20AE	DF20AR
Maximum output	kW (PS)	11.0 (15)			14.7 (20)		
Recommended operating range	r/min	5 000 – 6 000			5 300 – 6 300		
Idle speed	r/min	850 ± 50 (in-gear: Approx. 800 – 900)					

Powerhead

Item	Unit	Data					
		DF15A	DF15AE	DF15AR	DF20A	DF20AE	DF20AR
Engine type		4-stroke SOHC					
Number of cylinders		2					
Bore	mm (in.)	60.4 (2.38)					
Stroke	mm (in.)	57.0 (2.24)					
Total displacement	cm ³ (cu. in)	327 (19.9)					
Compression ratio	: 1	10.5					
Spark plug	NGK	CPR6EA-9					
Ignition system		Digital CDI					
Fuel supply system		Electronic fuel injection					
Exhaust system		Through prop exhaust					
Cooling system		Water cooled					
Lubrication system		Wet sump by trochoid pump					
Starting system		Manual	Electric		Manual	Electric	
Throttle control		Twist grip		Remote control	Twist grip		Remote control
Choke system		—					

Fuel and Oil

Item	Unit	Data					
		DF15A	DF15AE	DF15AR	DF20A	DF20AE	DF20AR
Fuel		Suzuki highly recommends the use of alcohol-free unleaded gasoline with a minimum pump octane rating of 87 (R/2 + M/2 method) or 91 (Research method). However, blends of unleaded gasoline and alcohol with equivalent octane content may be used.					
Engine oil		- API classification: SG, SH, SJ, SL, SM or NMMA FC-W classification: SG, SH, SJ, SL, SM - Viscosity rating: SAE 10W-40 or NMMA FC-W 10W-40					
Engine oil amounts	L (US/Imp. qt)	1.0 (1.1/0.9): Oil change only 1.1 (1.2/1.0): Oil filter change					
Gear oil		SUZUKI Outboard Motor Gear Oil or SAE 90 hypoid gear oil, API classification GL-5.					
Gearcase oil capacity	ml (US/Imp. oz)	250 (8.4/8.8)					

Bracket

Item	Unit	Data					
		DF15A	DF15AE	DF15AR	DF20A	DF20AE	DF20AR
Trim angle	degree	0 – 16 (–8 to 8)					
Number of tilt pin position		5					
Maximum tilt angle	degree	73 (–8 to 65)					

Lower Unit

Item	Unit	Data					
		DF15A	DF15AE	DF15AR	DF20A	DF20AE	DF20AR
Reversing system		Gear					
Transmission		Forward-Neutral-Reverse					
Reduction system		Bevel gear					
Gear ratio		12 : 25 (2.08)					
Drive line impact protection		Spline drive rubber hub					
Propeller shaft rotation (When shift into forward)		Clockwise					
Propeller		Blade x Dia. (in.) x Pitch (in.)					
		3 x 9 and 1/4 x 7					
		3 x 9 and 1/4 x 8					
		3 x 9 and 1/4 x 9					
		3 x 9 and 1/4 x 10					
		3 x 9 and 1/4 x 11					

Service Data (DF9.9B/15A/20A)

CENDK1120107006

NOTE

- These service data are subject to change without notice.
- The following data is applied to all version of each model of DF9.9B/15A/20A.

Powerhead

Item	Unit	Data		
		DF9.9B	DF15A	DF20A
Recommended operating range	r/min	4 700 – 5 700	5 000 – 6 000	5 300 – 6 300
Idle speed	r/min	850 ± 50 (in-gear: Approx. 800 – 900)		
**Cylinder compression pressure	kPa (kgf/cm ² , psi.)	DF9.9B/15A/20A (With decompression system): 350 – 900 (3.5 – 9, 50 – 128) {Crank with recoil starter}		
**Cylinder compression pressure max. difference between cylinders	kPa (kgf/cm ² , psi.)	100 (1.0, 14)		
**Engine oil pressure	kPa (kgf/cm ² , psi.)	200 – 500 (2.0 – 5.0, 29 – 71) at 3 000 r/min (At normal operating temp.)		
Engine oil		• API classification: SG, SH, SJ, SL, SM or NMMA FC-W classification: SG, SH, SJ, SL, SM • Viscosity rating: SAE 10W-40 or NMMA FC-W 10W-40		
Engine oil amounts	L (US/lpm. qt)	1.0 (1.1/0.9): Oil change only 1.1 (1.2/1.0): Oil filter change		
Thermostat operating temperature	°C (°F)	48 – 52 (118 – 126)		

**Figures shown are guidelines only, not absolute service limits.

Cylinder Head / Camshaft

Item		Unit	Data		
			DF9.9B	DF15A	DF20A
Cylinder head distortion	Limit	mm (in.)	0.06 (0.002)		
Manifold seating faces distortion	Limit	mm (in.)	0.06 (0.002)		
Cam height	IN	std.	23.710 – 23.870 (0.9335 – 0.9398)		
		Limit	23.610 (0.9295)		
	EX	std.	23.530 – 23.690 (0.9264 – 0.9327)		
		Limit	23.430 (0.9224)		
Camshaft journal oil clearance	Upper	std.	0.020 – 0.062 (0.0008 – 0.0024)		
		Limit	0.100 (0.0039)		
	Lower	std.	0.020 – 0.062 (0.0008 – 0.0024)		
		Limit	0.100 (0.0039)		
Camshaft journal bore diameter	Upper	std.	25.000 – 25.021 (0.9843 – 0.9851)		
	Lower	std.	23.000 – 23.021 (0.9055 – 0.9063)		
Camshaft journal outside diameter	Upper	std.	24.959 – 24.980 (0.9826 – 0.9835)		
	Lower	std.	22.959 – 22.980 (0.9039 – 0.9047)		
Rocker arm shaft to rocker arm clearance	std.	mm (in.)	0.016 – 0.045 (0.0006 – 0.0018)		
	Limit	mm (in.)	0.060 (0.0024)		
Rocker arm inside diameter	std.	mm (in.)	13.000 – 13.018 (0.5118 – 0.5125)		
Rocker arm shaft outside diameter	std.	mm (in.)	12.973 – 12.984 (0.5107 – 0.5112)		

Valve / Valve Guide

Item			Unit	Data		
				DF9.9B	DF15A	DF20A
Valve diameter		IN	mm (in.)	26 (1.02)		
		EX	mm (in.)	22 (0.87)		
Valve clearance (Cold engine condition)	IN	std.	mm (in.)	0.18 – 0.22 (0.007 – 0.009)		
	EX	std.	mm (in.)	0.18 – 0.22 (0.007 – 0.009)		
Valve seat angle	IN		—	15°, 45°		
	EX		—	15°, 45°		
Valve guide to valve stem clearance	IN	std.	mm (in.)	0.010 – 0.037 (0.0004 – 0.0015)		
		Limit	mm (in.)	0.070 (0.0028)		
	EX	std.	mm (in.)	0.035 – 0.062 (0.0014 – 0.0024)		
		Limit	mm (in.)	0.090 (0.0035)		
Valve guide inside diameter	IN, EX	std.	mm (in.)	5.500 – 5.512 (0.2165 – 0.2170)		
Valve guide protrusion	IN, EX	std.	mm (in.)	9.8 – 10.2 (0.39 – 0.40)		
Valve stem outside diameter	IN	std.	mm (in.)	5.475 – 5.490 (0.2156 – 0.2161)		
	EX	std.	mm (in.)	5.450 – 5.465 (0.2146 – 0.2152)		
Valve stem deflection	IN	Limit	mm (in.)	0.14 (0.006)		
	EX	Limit	mm (in.)	0.18 (0.007)		
Valve stem runout	IN, EX	Limit	mm (in.)	0.05 (0.002)		
Valve head radial runout	IN, EX	Limit	mm (in.)	0.08 (0.003)		
Valve head thickness	IN	std.	mm (in.)	—		
		Limit	mm (in.)	0.5 (0.02)		
	EX	std.	mm (in.)	—		
		Limit	mm (in.)	0.5 (0.02)		
Valve seat contact width	IN	std.	mm (in.)	0.9 – 1.1 (0.035 – 0.043)		
	EX	std.	mm (in.)	0.9 – 1.1 (0.035 – 0.043)		
Valve spring free length		std.	mm (in.)	33.16 (1.31)		
		Limit	mm (in.)	31.50 (1.24)		
Valve spring preload		std.	N (kg, lbs)	82 – 95 (8.2 – 9.5, 18 – 21) at 28.5 mm (1.12 in)		
		Limit	N (kg, lbs)	75 (7.5, 16.5) at 28.5 mm (1.12 in)		
Valve spring squareness		Limit	mm (in.)	1.0 (0.04)		

0A-7 General Information:**Cylinder / Piston / Piston Ring**

Item		Unit	Data		
			DF9.9B	DF15A	DF20A
Cylinder distortion	Limit	mm (in.)	0.06 (0.002)		
Piston to cylinder clearance	std.	mm (in.)	0.0271 – 0.0425 (0.0011 – 0.0017)		
	Limit	mm (in.)	0.100 (0.0039)		
Cylinder bore	std.	mm (in.)	60.400 – 60.415 (2.3780 – 2.3785)		
Cylinder measuring position		mm (in.)	50 (1.969) from cylinder top surface		
Piston skirt diameter	std.	mm (in.)	60.365 – 60.380 (2.3766 – 2.3772)		
Piston measuring position		mm (in.)	9 (0.354) from piston skirt end		
Cylinder bore wear	Limit	mm (in.)	0.10 (0.0039)		
Piston ring end gap	1st	std.	0.12 – 0.25 (0.0047 – 0.0098)		
		Limit	0.70 (0.028)		
	2nd	std.	0.26 – 0.39 (0.0102 – 0.0154)		
		Limit	0.70 (0.028)		
Piston ring free end gap	1st	std.	Approx. 6.3 (0.2480)		
		Limit	5.0 (0.1969)		
	2nd	std.	Approx. 5.6 (0.2205)		
		Limit	4.5 (0.1772)		
Piston ring to groove clearance	1st	std.	0.030 – 0.070 (0.0012 – 0.0028)		
		Limit	0.12 (0.005)		
	2nd	std.	0.020 – 0.060 (0.0008 – 0.0024)		
		Limit	0.10 (0.004)		
Piston ring groove width	1st	std.	1.02 – 1.04 (0.040 – 0.041)		
	2nd	std.	1.21 – 1.23 (0.048 – 0.048)		
	Oil	std.	2.01 – 2.03 (0.079 – 0.080)		
Piston ring thickness	1st	std.	0.97 – 0.99 (0.038 – 0.039)		
	2nd	std.	1.17 – 1.19 (0.046 – 0.047)		
Pin clearance in piston pin hole	std.	mm (in.)	0.002 – 0.013 (0.0001 – 0.0005)		
	Limit	mm (in.)	0.05 (0.0020)		
Piston pin outside diameter	std.	mm (in.)	15.995 – 16.000 (0.6297 – 0.6299)		
	Limit	mm (in.)	15.980 (0.6291)		
Piston pin hole diameter	std.	mm (in.)	16.002 – 16.008 (0.6300 – 0.6302)		
	Limit	mm (in.)	16.030 (0.6311)		
Pin clearance in conrod small end	std.	mm (in.)	0.006 – 0.019 (0.0002 – 0.0007)		
	Limit	mm (in.)	0.050 (0.0020)		
Conrod small end bore	std.	mm (in.)	16.006 – 16.014 (0.6302 – 0.6304)		

Crankshaft / Conrod

Item		Unit	Data		
			DF9.9B	DF15A	DF20A
Conrod small end inside diameter	std.	mm (in.)	16.006 – 16.014 (0.6302 – 0.6304)		
Conrod big end oil clearance	std.	mm (in.)	0.025 – 0.045 (0.0010 – 0.0018)		
	Limit	mm (in.)	0.080 (0.0031)		
Conrod big end inside diameter	std.	mm (in.)	29.025 – 29.034 (1.1427 – 1.1431)		
Crank pin outside diameter	std.	mm (in.)	28.989 – 29.000 (1.1413 – 1.1417)		
Crank pin outside diameter difference (Out-of-round and taper)	Limit	mm (in.)	0.010 (0.0004)		
Conrod big end side clearance	std.	mm (in.)	0.100 – 0.250 (0.0039 – 0.0098)		
	Limit	mm (in.)	0.350 (0.0138)		
Conrod big end width	std.	mm (in.)	19.950 – 20.000 (0.7854 – 0.7874)		
Crank pin width	std.	mm (in.)	20.10 – 20.20 (0.7913 – 0.7953)		
Crankshaft journal runout	Limit	mm (in.)	0.04 (0.0016)		
Crankshaft journal oil clearance	std.	mm (in.)	0.020 – 0.047 (0.0008 – 0.0019)		
	Limit	mm (in.)	0.080 (0.0031)		
Crankcase bearing holder inside diameter	std.	mm (in.)	35.000 – 35.008 (1.3780 – 1.3783)		
Crankshaft journal outside diameter	std.	mm (in.)	31.989 – 32.000 (1.2594 – 1.2598)		

Item		Unit	Data		
			DF9.9B	DF15A	DF20A
Crankshaft journal outside diameter difference (Out-of-round and taper)	Limit	mm (in.)	0.010 (0.0004)		
Crankshaft bearing thickness	std.	mm (in.)	1.486 – 1.490 (0.0585 – 0.0587)		
Crankshaft thrust play	std.	mm (in.)	0.10 – 0.30 (0.004 – 0.012)		
	Limit	mm (in.)	0.60 (0.024)		
Crankshaft length	std.	mm (in.)	126.8 – 126.9 (4.992 – 4.996)		
Crankcase length	std.	mm (in.)	127.0 – 127.1 (5.000 – 5.004)		

Electrical

Item		Unit	Data		
			DF9.9B	DF15A	DF20A
Ignition timing		Degrees at r/min	5° BTDC – 14° BTDC	5° BTDC – 10° BTDC	5° BTDC – 20° BTDC
Over revolution limiter		r/min	5 900	6 200	6 300
CKP sensor resistance		Ω at 20 °C	148 – 222 (R/B – B)		
Power source coil resistance		Ω at 20 °C	2.1 – 3.2 (W – B): Manual start model		
Ignition coil resistance	Primary	Ω at 20 °C	0.08 – 0.11 (O – B)		
	Secondary	kΩ at 20 °C	3.5 – 4.7 (H·T cord – H·T cord)		
Spark plug cap resistance		kΩ at 20 °C	4 – 6		
Battery charge coil resistance		Ω at 20 °C	0.5 – 0.8: Manual start model 0.7 – 1.1: Electric start model		
Battery charge coil output (12 V)		Watt	72: Manual start model 144: Electric start model		
Standard spark plug	Type	NGK	CPR6EA-9		
	Gap	mm (in.)	0.8 – 0.9 (0.031 – 0.035)		
Fuse amp. rating		A	Electric starter model 30A: Main 10A: ECM		
Recommended battery capacity (12 V)		Ah (kC)	35 (126) or larger		
Fuel injector resistance		Ω at 20 °C	10 – 14		
IAC valve resistance		Ω at 20 °C	31 – 42		
IAT sensor/Cylinder temp. sensor (Thermistor characteristic)		kΩ at 25 °C	1.8 – 2.3		
Starter motor relay coil resistance		Ω at 20 °C	145 – 190: Electric start model		

Starter Motor (Only for Electric Start Model)

Item		Unit	Data		
			DF9.9B	DF15A	DF20A
Max. continuous time of use		Sec.	30		
Motor output		kW	1.4		
Brush length	std.	mm (in.)	16.0 (0.63)		
	Limit	mm (in.)	12.0 (0.47)		
Commutator undercut	std.	mm (in.)	0.5 – 0.8 (0.02 – 0.03)		
	Limit	mm (in.)	0.2 (0.01)		
Commutator outside diameter	std.	mm (in.)	29.0 (1.14)		
	Limit	mm (in.)	28.0 (1.10)		

Peak Voltage

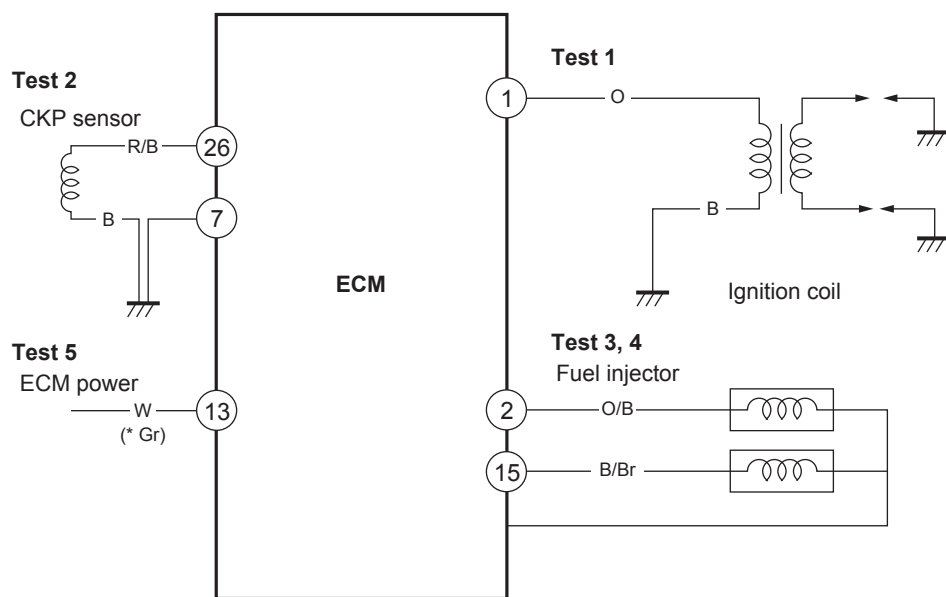
NOTE

Requirement for peak voltage measurement:

- Remove all spark plugs to eliminate the variables at cranking speed.
- Use a STEVENS peak voltage tester, model CD-77.
- Use the 26-pin test cord.
- Crank with recoil starter or starter motor.

Electric starter model

Testing sequence		Tester probe		Peak voltage	Tester range	Remarks
		(+) [Red]	(-) [Black]			
1	Ignition coil primary output	Orange	GND	110 V or over	NEG 500	• With ignition coil connected. • Use the 26 pin test cord.
2	CKP sensor output	Red/Black (Harness No.26 terminal)	GND	1.0 V or over	SEN 5	• With ECM connector disconnected.
3	Fuel Injector signal No.1	Orange/Black	GND	20 V or over	POS 50	• With fuel injector connected. • Use the 26 pin test cord.
4	Fuel Injector signal No.2	Black/Brown	GND	20 V or over	POS 50	
5	DC power for ECM	White (*: Gray)	GND	8 V or over	POS 50	• With rectifier connected. • Use the 26 pin test cord.



(*: Remote control model)

Manual starter model

Testing sequence		Tester probe		Peak voltage	Tester range	Remarks
		(+) [Red]	(-) [Black]			
1	Ignition coil primary output	Orange	GND	100 V or over	NEG 500	- With ignition coil connected. - Use the 26 pin test cord.
2	CKP sensor output	Red/Black (Harness No.26 terminal)	GND	1.0 V or over	SEN 5	With ECM connector disconnected.
3	Power source coil output	Brown/Red (Harness No.13 terminal)	Brown/White (Harness No.11 terminal)	16 V or over	POS 50	With ECM connector disconnected.
4	Fuel Injector signal No.1	Orange/Black	GND	20 V or over	POS 50	With fuel injector connected.
5	Fuel Injector signal No.2	Black/Brown	GND	20 V or over	POS 50	Use the 26 pin test cord.

