



SERVICE DATA

POWER BLOWER

ECHO: PB-2620

shindaiwa: EB262

(Serial number : 38000001 and after)

INTRODUCTION

We are constantly working on technical improvement of our products. For this reason, technical data, equipment and design are subject to change without notice. All specifications and directions in this SERVICE DATA are based on the latest product information available at the time of publication.

SERVICE MANUAL Ref. No. 403-20 (Models: PB-2520, EB252) contains lots of information for servicing these models.

Caburetor Adjustment video

CLICK HERE



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Reference No. **21-25N-E2**

REVISED : 202104

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1 SERVICE INFORMATION**1-1 Specifications**

Dimensions*	Length	mm (in)	324 (12.8)
	Width	mm (in)	282 (11.1)
	Height	mm (in)	355 (14.0)
Dry weight**		kg (lb)	4.4 (9.8)
Engine	Type	YAMABIKO, air-cooled, two-stroke, single cylinder	
	Rotation	Counterclockwise as viewed from the output end	
	Displacement	cm ³ (in ³)	25.4 (1.550)
	Bore	mm (in)	34 (1.339)
	Stroke	mm (in)	28 (1.102)
	Compression ratio	7.0	
Carburetor	Type	Diaphragm, horizontal-draft, with purge bulb	
	Model	Walbro WYG-14	
	Venturi size-Throttle bore	mm (in)	9 - 9 (0.354 - 0.354)
Ignition	Type	CDI (Capacitor discharge ignition) system Digital magneto	
	Spark plug	NGK BPMR8Y	
Exhaust	Muffler type	Spark arrester muffler with catalyst	
Starter	Type	Automatic rewind	
	Rope diameter x length	mm (in)	3.0 x 900 (0.12 x 35.4)
Fuel* ¹	Type* ²	Mixed two-stroke fuel	
	Mixture ratio	50 : 1 (2%)	
	Gasoline	Minimum 89 octane	
	Two-stroke air cooled engine oil	ISO-L-EGD (ISO/CD13738), JASO FC/FD	
	Tank capacity	L (U.S.fl.oz.)	Full tank capacity: 0.6 (20.3) Usable capacity: 0.56 (18.9)
Throttle	Type	Throttle trigger and Throttle setting device	
Blower	Fan type	Centrifugal, single stage	
	Max. air volume (with pipes)	m ³ /min (cfm)	Round Pipe: 12.9 (456) Flat Pipe: 12.1 (428)
		m/s (mph)	Round Pipe: 76.7 (172) Flat Pipe: 80.5 (180)
	Discharge ID* ³	mm (in)	Round Pipe: 65.5 (2.6) Flat Pipe: 124.7 x 31.1 (4.91 x 1.22)

*Without blower pipes **With blower pipes

*¹ Refer to Operator's manual

*² Premixed alkylate fuel for 2-stroke can be used.

*³ Inner diameter

1-2 Technical data

Engine			
Compression pressure	MPa (kgf/cm ²) (psi)		0.86 (8.8) (125)
Ignition system			
Spark plug gap	mm(in)		0.6 - 0.7 (0.024 - 0.028)
Spark test	Tester gap w/ spark plug	mm(in)	4.0 (0.16)
	Tester gap w/o spark plug	mm(in)	6.0 (0.24)
Secondary coil resistance	Ω		780 - 1180
Pole shoe air gaps	mm(in)		0.3 - 0.4 (0.012 - 0.016)
Ignition timing	at 3,000 r/min	°BTDC	8
	at 7,500 r/min	°BTDC	29
Carburetor			
Test Pressure, minimum	MPa (kgf/cm ²) (psi)		0.05 (0.5) (7.0)
Metering lever height	mm(in)		0.66 (0.026) lower than diaphragm seat
Tool to adjust mixture needles			D-shaped tool (S) P/N X645-000022 (Carb. adjustment tool P/N Y089-000094)
Carburetor adjustment			
1) Initial setting			
H mixture needle	turn out		2 1/4
L mixture needle	turn in* ¹		7 3/4
Throttle adjust screw	turn out* ²		13
Engine warm-up	Idle - WOT : Total	sec.	10 - 180 : 190
2) Find idle maximum speed			Adjust L mixture needle to maximum idle speed
3) Set idle maximum speed w/ TAS		r/min	3,500
4) Set idle speed by turning L mixture needle CCW		r/min	3,000
5) Find WOT maximum speed			Adjust H mixture needle to maximum WOT speed
6) WOT setting		r/min	Turn H mixture needle CCW to reduce WOT speed by : 20 - 40
7) Verify final engine speed with standard equipment			Idle: 2,850 - 3,150 WOT: 7,150 Minimum
		r/min	

BTDC: Before top dead center **WOT:** Wide open throttle **CCW:** Counterclockwise **TAS:** Throttle adjust screw

*¹ Screw in L mixture needle from initial thread engagement (at the point that the clicking sound is heard).

*² Turn TAS clockwise until its head touches boss. Then turn TAS counterclockwise.

1-3 Torque limits

Descriptions		Size	kgf•cm	N•m	in•lbf
Starter system	Starter pulley	M8	70 - 110	7 - 11	60 - 95
	Starter case	M5	60 - 80	6 - 8	50 - 70
Ignition system	Magneto rotor (Flywheel)	M8	160 - 200	16 - 20	140 - 175
	Ignition coil	M5	40 - 60	4 - 6	32 - 50
	Spark plug	M14	130 - 170	13 - 17	113 - 150
Fuel system	Carburetor	M5	30 - 45	3 - 4.5	25 - 40
	Intake insulator	M5*	60 - 80	6 - 8	50 - 70
Engine	Crankcase	M5	70 - 110	7 - 11	60 - 95
	Cylinder	M5	70 - 110	7 - 11	60 - 95
	Engine mount	M5	60 - 80	6 - 8	50 - 70
	Engine cover	M5 [†]	35 - 60	3.5 - 6	30 - 50
	Muffler	M5	70 - 110	7 - 11	60 - 95
Others	Outer fancase	M5 [†]	35 - 60	3.5 - 6	30 - 50
	Blower fan	M6	80 - 100	8 - 10	70 - 87
	Rear handle	M5	40 - 60	4 - 6	32 - 50
Regular bolt, nut and screw		M3	6 - 10	0.6 - 1	5 - 9a
		M4	15 - 25	1.5 - 2.5	13 - 22
		M5	25 - 45	2.5 - 4.5	22 - 40
		M6	45 - 75	4.5 - 7.5	40 - 65
		M8	110 - 150	11 - 15	95 - 130

[†] Tapping screw

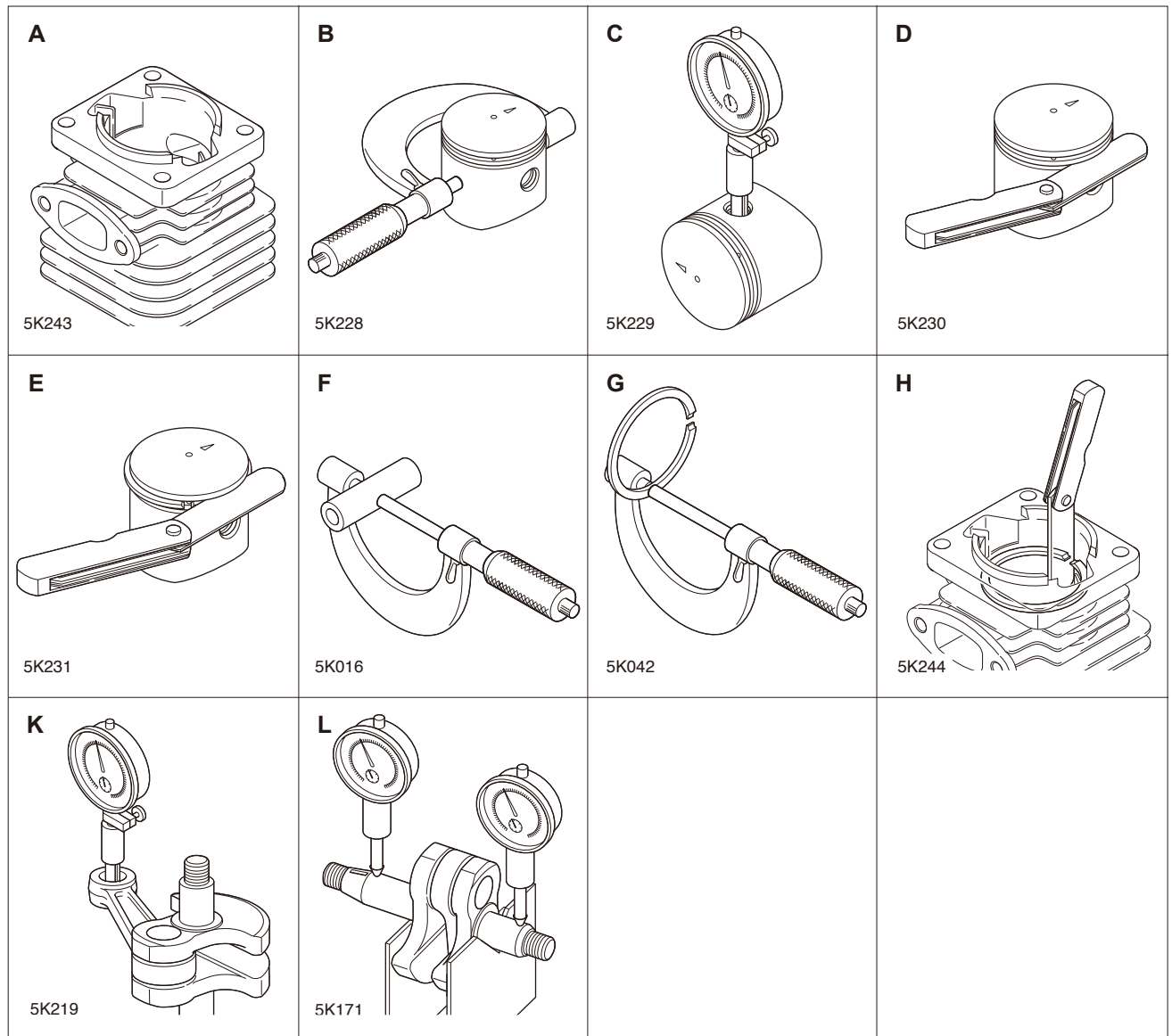
* Pre-coated bolt: If the coat is peeled off, replace new one or apply thread locking sealant as shown below.

1-4 Special maintenance materials

Material	Location	Remarks
Grease	Oil seal inner lips	EPNOC AP2 (Lithium based grease) P/N X695-000060
	Rewind spring	
	Starter center post	
Thread locking sealant	Ignition switch	ThreeBond #1344J or equivalent
	Intake insulator (re-use*)	ThreeBond #1324N or equivalent

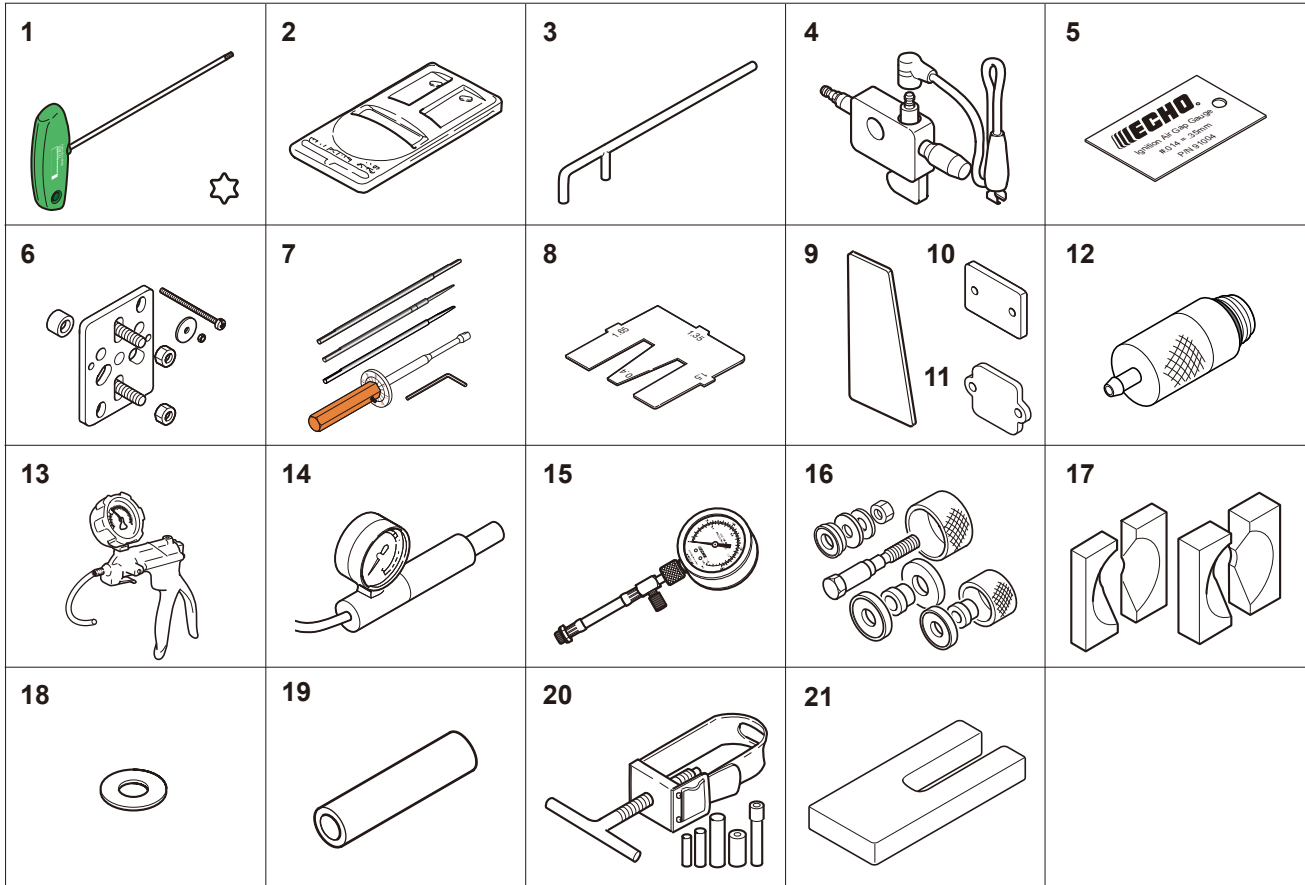
*If old thread locking sealant is left in threads, correct torque may not be secured. In case old thread locking sealant is left, remove it.

1-5 Service limits



Description		mm (in)
A	Cylinder bore	When plating is worn and aluminum can be seen
B	Piston outer diameter	Min. 33.91 (1.335)
C	Piston pin bore	Max. 9.035 (0.3557)
D	Piston ring groove	Max. 1.6 (0.063)
E	Piston ring side clearance	Max. 0.1 (0.004)
F	Piston pin outer diameter	Min. 8.98 (0.3535)
G	Piston ring width	Min. 1.45 (0.057)
H	Piston ring end gap	Max. 0.5 (0.02)
K	Con-rod small end bore	Max. 12.025 (0.4734)
L	Crankshaft runout	Max. 0.02 (0.0008)

1-6 Special tools



Key	Part Number	Description	Reference
1	X602-000340	Torx wrench (T27)	Removing and installing torx bolt
2	897802-33330	Tachometer PET-1000R	Measuring engine speed to adjust carburetor
3	897712-04630	2-pin wrench	Removing and installing pawl carrier
4	897800-79931	Spark tester	Checking ignition system
5	91004	Module air gap gauge	Adjusting pole shoe air gaps
6	Y089-000111	Puller	Removing magneto rotor
7	Y089-000094	Carburetor adjustment tool	Adjusting carburetor
8	897563-19830	Metering lever gauge	Measuring metering lever height on carburetor
9	91041	Pressure rubber plug	Plugging exhaust port to test crankcase / cylinder leakages
10	897826-16131	Pressure rubber plug	Plugging intake port to test crankcase / cylinder leakages
11	897827-16131	Pressure plate	Plugging intake port to test crankcase / cylinder leakages
12	A131-000150	Pressure connector	Testing crankcase and cylinder leakage
13	91149	Pressure / vacuum tester	Testing crankcase / cylinder leakages
14	897803-30133	Pressure tester	Testing carburetor and crankcase leakage
15	91037	Compression gauge	Measuring cylinder compression
16	897701-14732	Bearing tool	Removing and installing ball bearings on crankcase
17	897701-02830	Bearing wedge	Removing ball bearings on crankshaft
18	363018-00310	Washer	Installing crankcase oil seal
19	897726-09130	Oil seal tool	Installing crankcase oil seals
20	897702-30131	Piston pin tool	Removing and installing piston pin
21	897719-02830	Piston holder	Making piston steady to remove and install piston/ring