



# SERVICE DATA

## TRIMMER/BRUSHCUTTER

ECHO:

SRM-2620ES SRM-2620TES

shindaiwa:

T262XS C262S T262TXS C262TS

(Serial number : 37000001 and after)

(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 products information available at the time of publication.

SERVICE MANUAL Ref. No. 402-43 (Model: SRM-2620ES, SRM-2620TES, T262XS, C262S, T262TXS and C262TS) contains lots of information for servicing these models.

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Reference No. **10-25N-B5**

**REVISED : 201904**

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SERVICE INFORMATION

1 SERVICE INFORMATION  
1-1 Specifications

Model			SRM-2620ES (L) T262XS	SRM-2620TES (L) T262TXS	SRM-2620ES (U) C262S	SRM-2620TES (U) C262TS
Dimensions* <sup>1</sup>	Length	mm (in)	1778 (70.0)	1789 (70.4)	1778 (70.0)	1789 (70.4)
	Width	mm (in)	340 (13.4)		695 (27.4)	
	Height	mm (in)	311 (12.2)		445 (17.5)	497 (19.6)
Dry weight* <sup>2</sup>		kg (lb)	5.4 (11.9)	5.6 (12.3)	5.6 (12.3)	5.8 (12.8)
Engine	Type	YAMABIKO, air-cooled, two-stroke, single cylinder				
	Rotation	Counterclockwise as viewed from the output end				
	Displacement	cm <sup>3</sup> (in <sup>3</sup> )	25.4 (1.550)			
	Bore	mm (in)	34.0 (1.339)			
	Stroke	mm (in)	28.0 (1.102)			
	Compression ratio	7.6				
Carburetor	Type	Diaphragm, horizontal-draft				
	Model	WALBRO WYG-9				
	Venturi size - Throttle bore	mm (in)	10.5 - 10.5 (0.413 - 0.413)			
Ignition	Type	CDI (Capacitor discharge ignition) system, Digital magneto				
	Spark plug	NGK CMR7H				
Exhaust	Muffler type	Spark arrester muffler with catalyst				
Starter	Type	ES (Effortless-Start) / S (Soft-start)				
	Rope diameter x length	mm (in)	3.5 x 850 (0.14 x 33.5)			
Fuel* <sup>3</sup>	Type* <sup>4</sup>	Mixed two-stroke fuel				
	Mixture ratio	50 : 1 (2%)				
	Gasoline	Minimum 89 octane				
	Two-stroke 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: 0.52 (17.6)	
Clutch	Type	Centrifugal, 2-shoe pivot				
Handle	Type	Front	Crescent loop w/ cushion grip		U-handle w/ integrated control grip	
		Rear	Integrated control grip w/ cushion			
Drive shaft	Type	Solid type with spline (7-tooth)				
	Diameter - Length	mm (in)	7 - 1540 (0.27 - 60.62)			
	Housing	OD - ID	25.0 - 22.0 (0.98 - 0.87)			
		Length	mm (in)	1500 (59.1)		
Gear case	Reduction ratio		1.36	2.07	1.36	2.07
	Gear tooth	Spiral bevel gear				
	Lubrication	Lithium based grease				
Cutter	Type		Nylon line cutter F4 or SF400	Nylon line cutter Z5 or SF400	Nylon line cutter F4 or SF400 3-tooth blade (230 mm)	Nylon line cutter Z5 or SF400
	Pilot diameter for blade	mm (in)	25.4 (1.0)			
	Fastener type, size	mm	Left-hand thread nut, M10 x 1.25 pitch			
	Cutting rotation	Counterclockwise as viewed from top				

OD: Outer diameter. ID: Inner diameter.

\*<sup>1</sup> Without cutting attachment      \*<sup>2</sup> Without cutting attachment and Shield

\*<sup>3</sup> Refer to Operator's manual      \*<sup>4</sup> Premixed alkylate fuel for 2-stroke can be used.

1-2 Technical data

Model	SRM-2620ES, SRM-2620TES, T262XS, C262S, T262TXS, C262TS	
Engine		
Compression pressure	MPa (kgf/cm <sup>2</sup> ) (psi)	0.97 (9.8) (140)
Clutch engagement speed	r/min	4,100
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	960 - 1,000
Pole shoe air gaps	mm(in)	0.3 - 0.4 (0.012 - 0.016)
Ignition timing		
at 2,900 r/min	°BTDC	9
at 6,500 r/min	°BTDC	22
at 8,500 r/min	°BTDC	33
at 11,000 r/min	°BTDC	19
Carburetor		
Test Pressure, minimum	MPa (kgf/cm <sup>2</sup> ) (psi)	0.05 (0.5) (7.0)
Metering lever height	mm(in)	0.66 (0.03) lower than diaphragm seat
Tool to adjust mixture needles		Screwdriver 2.5 mm P/N X603-000050 D-shaped tool (S) P/N X645-000022 (Carb. adjustment tool P/N Y089-000094)

**BTDC:** Before top dead center

1-2 Technical data (continued)

Model		SRM-2620ES T262XS, C262S		SRM-2620TES T262TXS, C262TS	
Carburetor adjustment					
Cutting head preparation	Nylon line cutter	F4	SF400	Z5	SF400
	Line length (w/o shield)* <sup>1</sup>	190 mm	200 mm	285 mm	295 mm
1) Initial setting					
H mixture needle	turn out	3			
L mixture needle	turn out	3 1/8			
Throttle adjust screw	turn out** <sup>2</sup>	7 3/4			
Engine warm-up	Idle - WOT : Total	sec.		10 - 50 : 180	
2) Find idle maximum speed		Adjust L mixture needle to maximum idle speed* <sup>3</sup>			
3) Set idle maximum speed w/ TAS		r/min		4,000	
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 decrease WOT speed by : 20 - 30	
7) Verify final engine speed with standard equipment		Idle: 2,700 - 3,500			
		r/min		WOT: 9,000 - 10,000* 11,000 - 11,900**	
8) Verify clutch engagement speed		Confirm clutch engagement speed. If it is less than 1.25 times the idle speed, adjust the idle speed by turning TAS CCW.			

**WOT:** Wide open throttle    **CCW:** Counterclockwise    **TAS:** Throttle adjust screw

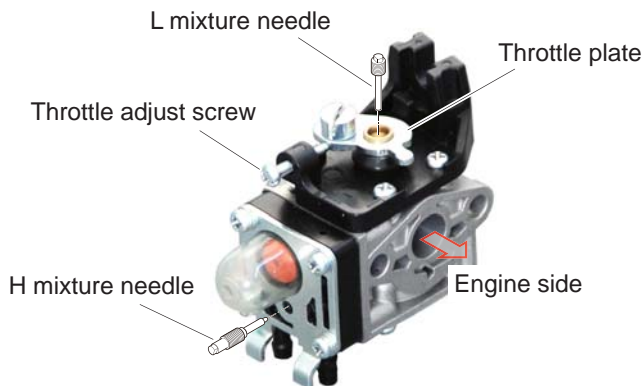
\* With Nylon line cutter and shield.    \*\* With 3-tooth blade (230 mm).

\*<sup>1</sup> From eyelet on nylon head

\*<sup>2</sup> Turn TAS clockwise until its head touches boss. Then turn TAS anticlockwise.

\*<sup>3</sup> If clutch engages during adjustment process 2), decrease engine speed by turning TAS CCW until clutch disengages and then redo 2).

**Carburetor: WYG-9**



1-3 Torque limits

Descriptions		Size	kgf•cm	N•m	in•lbf
Starter system	Starter pawl assembly	M8	70 - 110	7 - 11	60 - 95
	Starter case	M5	40 - 60	4 - 6	32 - 55
Ignition system	Magneto rotor (Flywheel)	M8	160 - 200	16 - 20	140 - 175
	Ignition coil	M5	40 - 60	4 - 6	32 - 55
	Fan cover	M5	50 - 70	5 - 7	45 - 60
	Spark plug	M10	100 - 150	10 - 15	87 - 130
Fuel system	Carburetor	M5	30 - 45	3 - 4.5	25 - 40
	Intake insulator	M5	30 - 45	3 - 4.5	25 - 40
	Fuel tank with stand				
	Starter side	M5*	40 - 60	4 - 6	32 - 55
	Fan cover side	M5*	50 - 70	5 - 7	45 - 60
Clutch	Clutch shoe	M6	70 - 110	7 - 11	60 - 95
Cylinder cover		M5*	30 - 45	3 - 4.5	25 - 40
Engine	Crankcase	M5	70 - 110	7 - 11	60 - 95
	Cylinder	M5	70 - 110	7 - 11	60 - 95
	Muffler	M5	70 - 110	7 - 11	60 - 95
	Muffler cover				
	Starter side	M5*	25 35	2.5 3.5	22 30
	Crankcase side	M5*	30 - 45	3 - 4.5	25 - 40
Other	Cutter fastener	LM10	280 - 320	28 - 32	245 - 280
Regular bolt, nut and screw		M3	6 - 10	0.6 - 1	5 - 9
		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

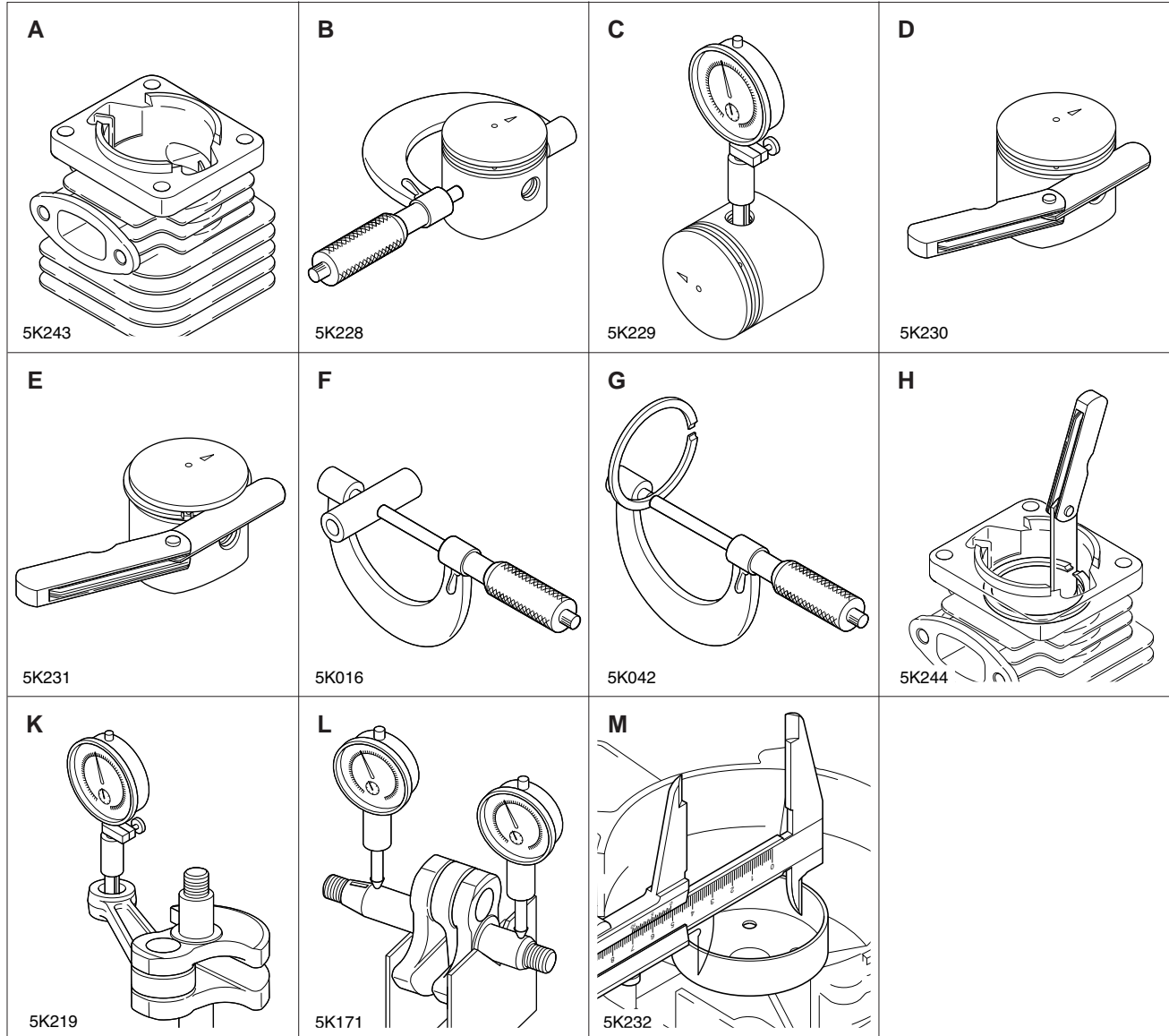
LM: Left hand thread      \* Apply thread locking sealant. (See below)

1-4 Special repairing materials

Material	Location	Remarks
Grease	Drive shaft	EPNOC AP2 (Lithium based grease) P/N X695-000060
	Gear case	
	Rewind spring	
	Starter center post	
	Oil seal inner lips	
Thread locking sealant	Fuel tank	Loctite #242, ThreeBond #1324 or equivalent
	Muffler cover	
	Cylinder cover	

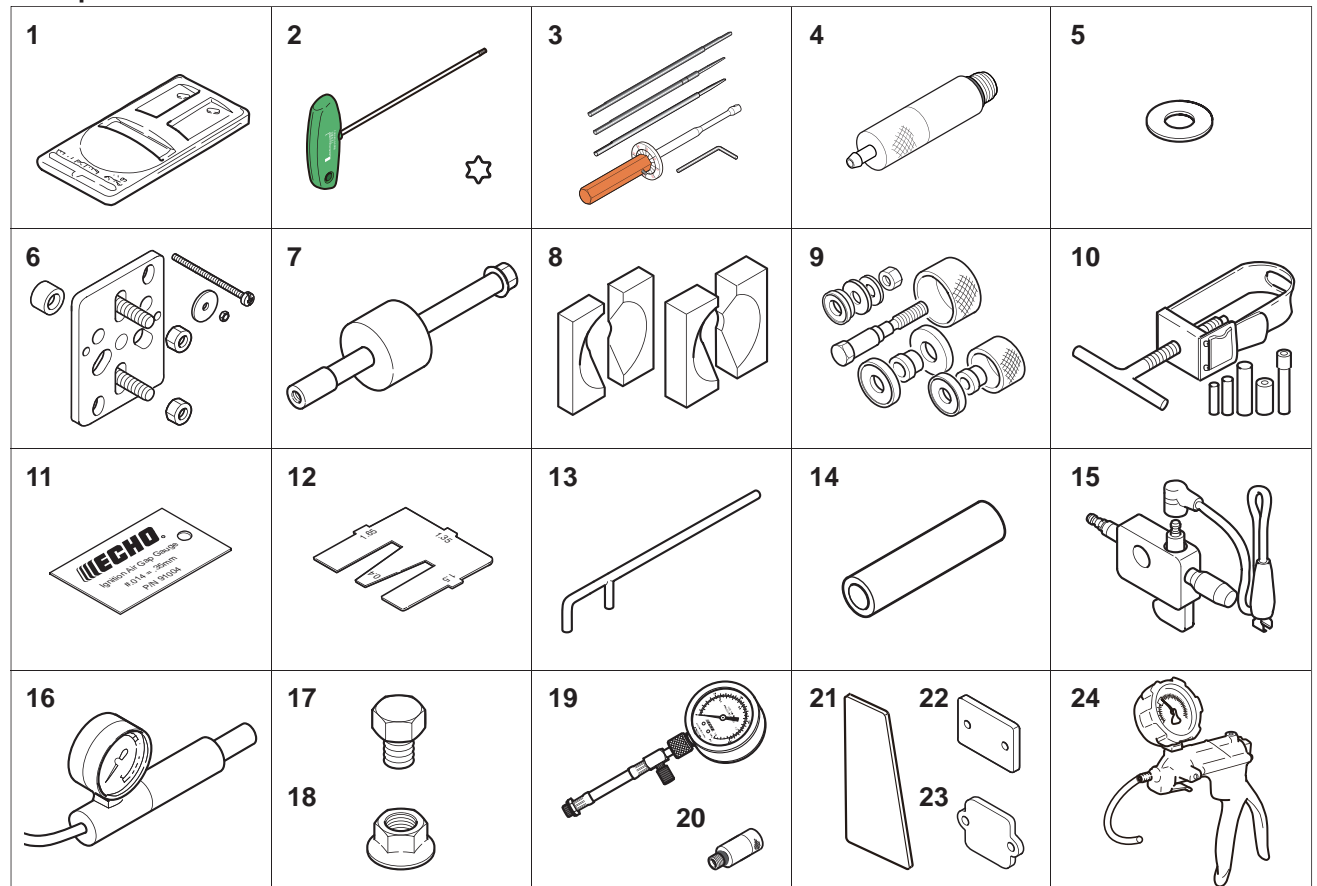
SERVICE INFORMATION

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.	0.03 (0.001)
M	Clutch drum bore	Max.	59.5 (2.34)

## 1-6 Special tools



Key	Part Number	Description	Reference
1	897802-33330	Tachometer PET-1000R	Measuring engine speed to adjust carburetor
2	X602-000340	Torx wrench (T27)	Removing and installing bolt
3	Y089-000094	Carburetor adjustment tool	Adjusting carburetor
4	A131-000160	Pressure connector	Checking crankcase and cylinder leakages
5	10001-418430	Washer	Installing crankcase oil seal
6	Y089-000111	Puller	Removing magneto rotor
7	P021-044870	PTO shaft puller	Removing PTO shaft
8	897701-02830	Bearing wedge	Removing ball bearings on crankshaft
9	897701-14732	Bearing tool	Removing and installing ball bearings on crankcase
10	897702-30131	Piston pin tool	Removing and installing piston pin (Use 8mm dia. adapter)
11	91004	Module air gap gauge	Adjusting pole shoe air gaps
12	897563-19830	Metering lever gauge	Measuring metering lever height on carburetor
13	897712-04630	2-pin wrench	Removing and installing pawl carrier
14	897726-09130	Oil seal tool	Installing crankcase oil seals
15	897800-79931	Spark tester	Checking ignition system
16	897803-30133	Pressure tester	Testing carburetor and crankcase leakages
17	900100-08008	Bolt	Removing magneto rotor (flywheel), crankshaft from crankcase
18	V265-000200	Flange nut	Removing magneto rotor (flywheel)
19	91037	Compression gauge	Measuring cylinder compression
20	P021-051690	Adapter	Measuring cylinder compression (Use with 91037)
21	91041	Pressure rubber plug	Plugging exhaust port to test crankcase / cylinder leakages
22	897826-16131	Pressure rubber plug	Plugging intake port to test crankcase / cylinder leakages
23	897827-16131	Pressure plate	Plugging intake port to test crankcase / cylinder leakages
24	91149	Pressure / vacuum tester	Testing crankcase / cylinder leakages