



SERVICE DATA

Carburetor Adjustment Table (European specification)

INTRODUCTION

Refer to SERVICE MANUAL Ref. No. 400-09 "CARBURETOR ADJUSTMENT" and SERVICE DATA of each model for detailed adjustment procedure.

CONTENTS

1. Special tool for carburetor adjustment	3
2. Limiter cap and limiter plug.....	3
3. Limiter cap and limiter plug reference chart.....	3
4. Verify clutch engagement speed for safety	3
5. Chain saw, Engine cutter.....	4
6. Trimmer/Brushcutter, Clearing saw.....	10
7. Hedge trimmer	20
8. Shafted hedge trimmer, Pro-attachment series, Pruner, Engine drill, Earth auger..	22
9. Duster/Mist blower, Blower, Shred 'N' Vac, Sprayer.....	28

Carburetor Adjustment video

CLICK HERE



Reference No. **90-ZCA-03**
UPDATE: Mar. 31, 2022

REVISED : 201811
ISSUED: 201603



Because of regional requirement and/or variety of component(s), there are specification differences on the same model name.

The specifications are coded and incorporated with machine serial number for easy and accurate recognition.

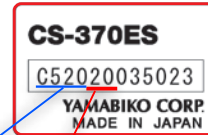
There are 2 types of serial numbers; namely 8-digit and 12-digit.

On 8-digit serial number, the first 2 digits represent the specification code.



Specification code: 38

On 12-digit serial number, ignore the first 4 digits include alphabet, and the next 2 digits represent the specification code.



4 digits include alphabet

Specification code: 20

The model name in this publication are described with specification code as CS-501SX (38), SRM-420ES (38), HCA-265ES-HD (38), PB-2520 (38), etc.

Followings are specification codes and the meanings.

30: Russian

33: Turkish

35: EU before Emission directive became effective

36: EU Emission directive ST1

37: EU Emission directive ST2

38: EU Emission directive ST5

02 to 15: North American

26: Latin American

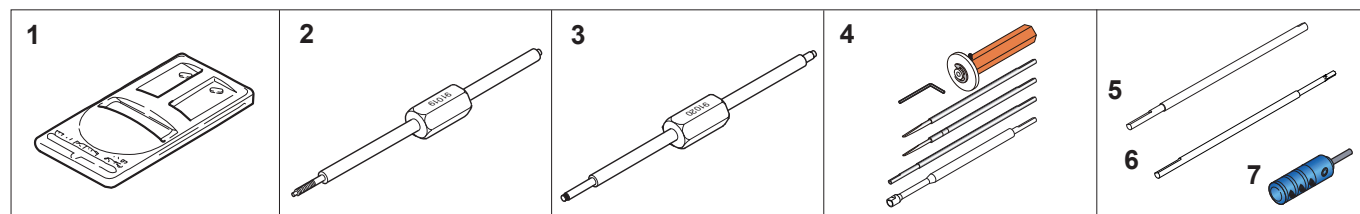
20, 22, 24, 25: Other than the above

--- Symbols used in carburetor adjustment table ---

-  : PI (Proportional integral) controller installed model
-  : Use Tachometer PET-1000R to read engine speed
-  : See NOTE below
-  : With shield
-  : Without shield
-  : Use Load adapter #91156

TAS: Throttle Adjust Screw **WOT:** Wide Open Throttle **CW:** Clockwise **CCW:** Counterclockwise

1. Special tool for carburetor adjustment



Key	Part Number	Description	Reference
1	897802-33330	Tachometer PET-1000R	Measuring engine speed to adjust carburetor
2	91019	Limiter cap tool	Removing and installing Limiter cap
3	91020	Limiter plug tool	Removing and installing Limiter plug
4	Y089-000095	Carburetor adjustment tool	Adjusting Carburetor
5	X603-000070	D-shaped tool (M)	Adjusting Carburetor
6	X603-000100	Torx driver (T8)	Adjusting Carburetor
7	91159S	Short type D-shaped tool (S)	Adjusting Carburetor

To adjust carburetor, standard tools may be required such as Phillips-head screw driver and/or flat-blade screw driver.

2. Limiter cap and limiter plug

On some models, limiter caps or limiter plug(s) have been installed on L (and H) mixture needle(s) of several types of carburetor. When adjusting carburetor, these limiter caps or limiter plug(s) should be removed.

To remove and install limiter caps or limiter plug(s), follow the procedure in SERVICE MANUAL Ref. No. 400-09 "CARBURETOR ADJUSTMENT".

IMPORTANT: In the country where an Emission directive/regulation is enforced, limiter caps or limiter plug(s) must be installed on L (and H) mixture needle(s) after adjusting carburetor, to comply with Emission directive/regulation.

3. Limiter cap and limiter plug reference chart

	Reference number	Part Number	Shape		Reference number	Part Number	Shape
Limiter cap	C1	A259-000030		Limiter cap	C6	P005-001530	
	C2	125329-09860			C7	A259-000050	
	C3	125329-39030			C8	125329-08560	
	C4	P003-000010			C9	A259-000040	
	C5	P005-001520		Limiter plug	P1	A259-000000	
					P2	P005-001270	
					P5	A259-000060	

4. Verify clutch engagement speed for safety

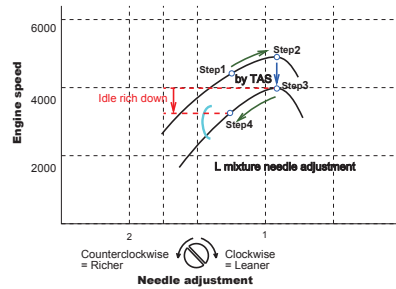
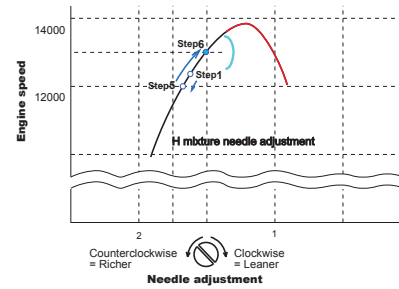
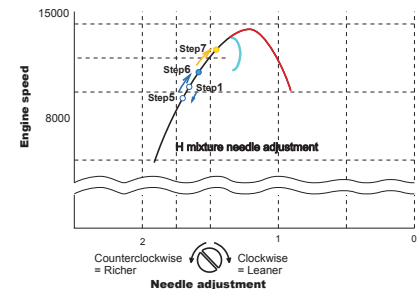
After adjusting carburetor, verify clutch engagement speed. If it is less than 1.25 times the idle speed, adjust the idle speed by turning Throttle adjust screw (TAS) counterclockwise.

Table 1: Limiter cap / plug

C4	P003-000010	
C7	A259-000050	

Table 2: Tool

a		Screwdriver 2 mm
b		Screwdriver 2.5 mm
d		D-shaped (L)
e		D-shaped (M)

Fig. 1: Idle setting

Fig. 2: WOT setting

Fig. 4: WOT setting


Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.4	Step 8: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m) *2	Step 7: Turn H mixture needle CW	Final Idle range (r/min)	Final WOT range (r/min)
CS-2510TES (37)	WT-1153 (A021-004520)	-	d	2 5/8	1 7/8	1 5/8	5 - 5 : 100	4000	3200	12400 - 12600	1/4	2800 - 3600	12700 - 13100 
CS-2511TES (37)(38) Sticker label	WT-1153 (A021-004520) WT-1153B (A021-004522)	-	d	2 5/8 2	1 7/8 2 1/2	1 5/8 1 1/2	5 - 5 : 100	4200	3200	12500 - 12700	1/2	2800 - 3600	12700 - 13400 
 CS-2511TES (37) (38) Laser etched label	WT-1153 (A021-004520) WT-1153B (A021-004522) WT-1231 (A021005160)	-	d	2 5/8 2 2	1 7/8 2 1/2 2 1/2	1 5/8 1 1/2 1 1/2	5 - 5 : 30	4200	3400	12500 - 12700	1/2	3100 - 3300	12700 - 13400 
PI: To change from Operation mode to Carburetor adjustment mode, 1. Start engine without brake activated. 2. Engine warm-up with fast idle for 120 seconds. The speed should be within 6,000 - 10,000 r/min. If not, adjust the speed by turning H mixture needle.													
 CS-2511WES (38) Mixed two-stroke regular fuel	WT-1230 (A021-005020)	-	d	1 3/4	2 1/2	1 1/2	5 - 5 : 30	4100	3300	-	-	3100 - 3300	12800 - 13400 
 CS-2511WES (38) Mixed two-stroke E10 fuel	WT-1230 (A021-005020)	-	d	2	2 1/2	1 1/2	5 - 5 : 30	4100	3300	-	-	3100 - 3300	12800 - 13400 
 CS-2511WES (38) Premixed alkylate fuel	WT-1230 (A021-005020)	-	d	2 1/4	2 1/2	1 1/2	5 - 5 : 30	4100	3300	-	-	3100 - 3300	12800 - 13400 

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 Must make adjustments with guide bar and chain provided with product.

Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.4	Step 8: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m) *2	Step 7: Turn H mixture needle CW	Final Idle range (r/min)	Final WOT range (r/min)
PI: To change from Operation mode to Carburetor adjustment mode, 1. Start engine without brake activated. 2. Engine warm-up with fast idle for 120 seconds. The speed should be within 6,000 - 10,000 r/min. If not, adjust the speed by turning H mixture needle.													
CS-2600 (36) CS-2600ES (36)	WT-696C (A021-000973)	C4	a	2 3/8	2 3/8	1 7/8	5 - 5 : 70	4400	3350	10700 - 11200	-	3000 - 3600	10500 - 11500
CS-2700ES (36)	WT-697C (A021-000963)	C4	a	2 1/2	2 3/8	1 7/8	5 - 5 : 70	4400	3350	10700 - 11200	-	3000 - 3600	10500 - 11500
CS-260TES (36)	WT-843 (A021-001403)	C4	a	1 7/8	1 5/8	2 1/8	5 - 5 : 70	4400	3350	11700 - 12300	-	2800 - 3600	11500 - 12500
CS-270WES (36)	WT-845 (A021-001421)	C4	a	1 7/8	1 5/8	2 1/8	5 - 5 : 70	4400	3350	11700 - 12300	-	2800 - 3600	11500 - 12500
CS-280T (37)(38) CS-280TES (37)(38)	WT-1085 (A021-004191)	-	d	3 3/8	2	1 1/4	5 - 10 : 150	3600	2900 Increase 3200 by TAS	12700 - 12900	-	2900 - 3500	12400 - 13300
CS-280WES (37)	WT-1026 (A021-003743)	-	d	2 3/4	2 1/2	1 3/8	5 - 5 : 120	3800	3200	11400 - 11800	-	2900 - 3500	11100 - 12500
CS-281WES (37)(38)	WT-1108 (A021-004290)	-	d	3 3/4	2 1/2	2	5 - 10 : 100	4200	3200	12300 - 12500	-	3000 - 3500	12000 - 12800
CS-3000 (36)	WT-402B (123001-39136)	C4	a	1 1/2	1 1/4	1 3/4	10 - 5 : 120	4200	3200	10500 - 11500	-	2700 - 3500	9000 - 12000
CS-3400 (36)	WT-402B (123001-39136)	C4	a	1 1/2	1 1/4	2 1/8	10 - 5 : 120	4200	3200	10500 - 11500	-	2700 - 3500	9000 - 12000
CS-303T (37)(38)	WT-1084 (A021-004181)	-	d	1 3/4	1 1/4	1 1/4	10 - 10 : 60	4000	3200	11600 - 11800	-	2900 - 3700	11500 - 12000
NOTE: After initial setting, run engine with fast idle 60 seconds and then confirm the fast idle speed within 8,000 - 10,000 r/min.													
CS-310ES (37)(38)	WT-946 (A021-001700)	C4	a	2 1/4	2 1/2	7/8	5 - 5 : 120	3700	3200	12750 - 12950	-	2800 - 3600	12000 - 13000
CS-320T (36) CS-320TES (36)	WT-698 (A021-000860) WT-698A (A021-000861) WT-698B (A021-000865)	C4	a	2 7/8 2 7/8 2 7/8	2 2 3/4 2 3/4	1 1 1	5 - 10 : 120	4200	3300	12500 - 13000	-	3100 - 3500	12500 - 13500

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 Must make adjustments with guide bar and chain provided with product.

Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.4	Step 8: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m) *2	Step 7: Turn H mixture needle CW	Final Idle range (r/min)	Final WOT range (r/min)
CS-350T (36) CS-350TES (36)	WT-699 (A021-000850) WT-699A (A021-000851) WT-698A (A021-000861) WT-698B (A021-000865)	C4	a	2 5/8 2 7/8 2 7/8 3 1/2	2 1/8 2 1/8 2 3/4 1 3/4	4 7/8 4 7/8 4 7/8 4 7/8	5 - 10 : 120	4200	3200	12800 - 13200	-	2900 - 3500	12500 - 13500
CS-355T (36)	WT-1149 (A021-004460)	-	d	2 5/8	2 5/8	1 3/8	5 - 10 : 100	3800	2800	13000 - 13300	1/2	2700 - 3300	13800 - 14300
CS-350WES (36)	WT-722 (A021-001020) WT-722A (A021-001021) WT-721 (A021-001190) WT-721A (A021-001191)	C4	a	2 7/8 2 3/8 3 1/8 3 1/2	1 7/8 1 7/8 2 1/8 1 3/4	2 1/8 2 1/8 2 1/8 2 1/8	5 - 10 : 120	4000	3200	12800 - 13200	-	2900 - 3500	12500 - 13500
CS-350WES (36)	WT-897 (A021-001563)	C4	a	3	1 3/4	1 3/8	5 - 10 : 120	3900	2700	12800 - 13200	-	2300 - 3100	12000 - 13500
CS-351WES (36)	WT-897 (A021-001563)	C4	a	3	1 3/4	1 3/8	5 - 5 : 120	3900	2700	12000 - 12600	-	2300 - 3100	12000 - 13500
CS-3510AC (38)	WT-1237 (A021-005190)	C4	a	3 3/8	3	3/4	5 - 10 : 150	4100	3300	12500 - 13200	-	2800 - 3400	12500 - 13200
CS-3510ES (38)	WT-1240 (A021-005280)	-	d	3 1/4	2 7/8	1 1/8	5 - 10 : 150	3900	3000	13300 - 13600	-	2800 - 3500	13000 - 13600
CS-352ES (37)(38)	WT-991 (A021-003342)	-	d	3 1/4	2 3/4	1 1/2	5 - 5 : 120	3800	2800	12200 - 12400	-	2700 - 3300	11700 - 12700
CS-352AC (38)	WT-1216 (A021-004760)	C4	a	2 1/8	1 1/2	1 1/2	5 - 5 : 150	4200	3200	12700 - 13300	-	3000 - 3400	12500 - 13500
CS-360WES (37)	C1Q-K109 (A021-003780)	-	d	2 1/8	1 1/2	1 1/8	5 - 5 : 100	3900	3200	12600 - 13000	-	2800 - 3600	12500 - 13100
CS-360TES (37)	C1Q-K120A (A021-004210)	-	d	2 3/8	1 7/8	1 1/8	5 - 10 : 150	3600	3000	11900 - 12200	1/2	2700 - 3300	13000 - 14000
CS-361WES (37)	C1Q-110124A (A021-004400)	-	d	2 1/2	1 5/8	1 7/8	5 - 5 : 100	4200	3200	13000 - 14000	-	2800 - 3500	13000 - 14000
CS-362TES (38)	C1Q-Z011/70B (A021-004210)	-	d	2 3/8	1 7/8	1 1/8	5 - 10 : 150	3600	3000	11900 - 12200	1/2	2700 - 3300	13000 - 14000
CS-362WES (38)	C1Q-Z011/71B (A021-004400)	-	d	2 1/2	1 5/8	1 7/8	5 - 5 : 100	4200	3200	13000 - 14000	-	2800 - 3500	13000 - 14000

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 Must make adjustments with guide bar and chain provided with product.

Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.4	Step 8: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m) *2	Step 7: Turn H mixture needle CW	Final Idle range (r/min)	Final WOT range (r/min)
CS-3500 (36) CS-3501 (36)	WT-700 (A021-000872)	C4	a	2 3/8	2 1/4	1 3/8	10 - 5 : 120	4000	3000	11500 - 12000	-	2600 - 3500	10500 - 12000
CS-3700 (36) CS-3700ES (36)	WT-416C (123000-39333) WT-812 (A021-001280)	C4	a	3 3 1/2	1 1/4 1 1/4	1 1/8 1 3/4	5 - 5 : 120	3700	2700	11600 - 12400	-	2300 - 3000	11500 - 12500
CS-370ES (37)	WT-820A (A021-001310) WT-950 (A021-001790)	C4 -	a d	2 3/8	1 1/4	1 5/8	5 - 5 : 120	3800	2600	12300 - 12800 12200 - 12800	-	2400 - 2900	12000 - 13000
CS-370ES (37)(38)	WT-980 (A021-001900)	-	d	2 1/2	1 1/2	2 3/8	5 - 5 : 120	3500	2600	11700 - 12300	-	2400 - 2900	11500 - 12500
CS-390ESX (37)(38)	WT-1055 (A021-004001)	-	d	3 1/2	2 3/8	1 3/8	5 - 5 : 100	3700	3000	12800 - 13200	-	2700 - 3500	12500 - 13500
CS-420ES (37)	WT-820A (A021-001310) WT-950 (A021-001790)	C4 -	a d	2 3/4	1 3/8	1 3/8	5 - 5 : 120	3800	2600	12400 - 12800	-	2400 - 2900	12300 - 13000
CS-420ES (37)(38)	WT-980 (A021-001900)	-	d	2 3/4	1 3/8	1 3/8	5 - 5 : 120	3500	2600	11600 - 12100	-	2400 - 2900	11500 - 12200
CS-420EMS (37)(38)	C1Q-110132B (A021-004590)	-	e	2 1/2	Fixed jet	2 3/8	NOTE: Since this model has Electric Management System (EMC), refer to SERVICE DATA for detailed adjustment.						
CS-4200 (36) CS-4200ES (36)	WT-594 (A021-000220)	C4	a	2 5/8	1 1/4	1 3/8	5 - 5 : 120	3700	2700	11500 - 12500	-	2300 - 3000	11500 - 12500
CS-4310SX (38) Mixed two-stroke fuel	HD-68 (A021-005350)	-	d	3 1/2	2	2	5 - 5 : 150	3800	2800	13200-13600	-	2700 - 3000	13200-13600
CS-4310SX (38) Premixed alkylate fuel	HD-68 (A021-005350)	-	d	3 1/2	2	2	5 - 5 : 150	3800	2800	12800-13200	-	2700 - 3000	12800-13200
CS-4400 (36)	WT-416C (123000-39333)	C4	a	3	1 1/4	1 1/2	10 - 5 : 120	3500	2500	11500 - 13000	-	2300 - 2800	11500 - 13000
CS-450 (33)(36)(37)	WT-901A (A021-001471)	C4	a	3 3/8	1 1/2	1 7/8	5 - 5 : 120	3900	2500	12300 - 12700	-	2400 - 3000 	12000 - 13000
NOTE: After putting limiter cap on L mixture needle, turn L mixture needle CW to 2700 r/m idling speed.													

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 Must make adjustments with guide bar and chain provided with product.

Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.4	Step 8: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m) *2	Step 7: Turn H mixture needle CW	Final Idle range (r/min)	Final WOT range (r/min)
CS-4510ES (37)(38) Mixed two-stroke fuel 	C1Q-110138C (A021-004810) C1Q-Z011/73B (A021-004811)	-	d	2 7/8	1 7/8	8 1/8*	5 - 10 : 150	4100	3100	12250 - 12550	-	2700 - 3500	12250 - 12650
CS-4510ES (37)(38) Premixed alkylate fuel 	C1Q-110138C (A021-004810) C1Q-Z011/73B (A021-004811)	-	d	2 7/8	1 7/8	8 1/8*	5 - 10 : 150	4100	3100 Verify smooth acceleration. If not, turn TAS 1/4 turn CW.	12250 - 12550 Do not turn the needle more than 1/4 turn CW from standard state.	-	2700 - 3500	12250 - 12650
NOTE: After engine warming up, verify engine speed and smooth acceleration. If the Idle speed and WOT speed are within Final engine speeds on Step 8, the carburetor adjustment is completed.													
CS-452ESX (36)	WT-864 (A021-003040)	-	d	2 1/4	2 5/8	3 1/2	5 - 5 : 100	4300	2800	13200 - 13400	-	2600 - 3000	13000 - 13500
CS-490ES (37)(38)	WT-1011 (A021-003561)	-	d	3 1/8	1 1/2	2	5 - 5 : 100	3500	2900	11800 - 12000	-	2800 - 3500	11800 - 12500
CS-500ES (37)	WT-1011 (A021-003561)	-	d	3 1/8	1 1/2	2	5 - 5 : 100	3500	2900	11800 - 12000	-	2800 - 3500	11800 - 12500
CS-501SX (37)(38) CS-501SXH (37)(38)	WT-1139 (A021-004410)	-	d	3 5/8	1 3/4	2 1/8	5 - 5 : 100	3500	2700	13000 - 13800	-	2300 - 3100	13000 - 13800
CS-5100 (36)	C1Q-K79B (A021-001004)	C7	a	2 1/4	1 1/2	2	10 - 5 : 120	3500	2500	12500 - 13500	-	2300 - 2800	12500 - 13500
CS-510 (33)(36)	C1Q-K79B (A021-001004)	C7	a	2 1/4	1 1/2	2	10 - 5 : 120	3500	2500	12500 - 13500	-	2300 - 2800	12500 - 13500
CS-550 (37)	WLA-4 (A021-003360)	-	d	3 3/8	1 3/8	1 3/8	10 - 10 : 120	3600	2800	12800 - 13000	-	2600 - 3000	12500 - 13500
CS-590 (37)(38)	HDA-268A (A021-001661)	C4	a	3/4	1 3/4	1	5 - 5 : 120	3600	2800	12100 - 12300	-	2600 - 3200	11800 - 12800
CS-600 (33)(36)	HDA-268A (A021-001661)	C4	a	3/4	2	2 3/8	5 - 5 : 120	3600	2800	12100 - 12500	-	2600 - 3200	12000 - 13000

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 Must make adjustments with guide bar and chain provided with product.

Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.4	Step 8: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m) *2	Step 7: Turn H mixture needle CW	Final Idle range (r/min)	Final WOT range (r/min)
CS-610 (37)	HDA-268A (A021-001661)	C4	a	3/4	1 3/4	1	5 - 5 : 120	3600	2800	12100 - 12300	-	2600 - 3200	11800 - 12800
CS-620SX (33)(36)	HDA-316 (A021-004150)	C4	a	7/8	1 7/8	1/2	5 - 5 : 120	3600	2800	12700 - 12900	-	2600 - 3100	12600 - 13400
CS-621SX (38) Mixed two-stroke fuel	HDA-346 (A021-005220)	C4	a	1 1/2	1 7/8	3	5 - 5 : 120	3700	2900	12500 - 12700	-	2400 - 3500	12100 - 13200
CS-621SX (38) Premixed alkylate fuel	HDA-346 (A021-005220)	C4	a	1 1/2	1 7/8	3	5 - 5 : 120	3600	2800	12500 - 12700	-	2400 - 3500	12100 - 13200
CS-6702 (36) CS-6703 (36)	HDA-203A (A021-000292)	C4	a	3	1 7/8	2 1/2	5 - 5 : 120	3600	2700	12500 - 13500	-	2200 - 3200	12500 - 13500
CS-680 (36)	HDA-272A (A021-001782)	C4	a	1 1/8	2 1/4	1/2	5 - 5 : 120	3600	2600	13000 - 13800	-	2300 - 2900	12900 - 13900
CS-8001 (36) CS-8002 (36)	HDA-153C (123000-38833)	C4	a	3 3/8	2 3/8	2	10 - 5 : 120	3000	2500	11500 - 12500	-	2200 - 3000	11500 - 12500
CS-8002 (36)	HDA-324 (A021-004240)	C4	a	3 1/8	1 3/8	2	10 - 5 : 120	3000	2500	11500 - 12500	-	2200 - 3000	11500 - 12500
CSG-680 (36)	HDA-216 (A021-000730)	C4	a	1 1/4	1 7/8	2	5 - 5 : 120	3450	2450	9000 - 10000	-	2200 - 2800	8500 - 10500
CS-7310SX (38)	YZ0010 (A021-005260)	-	d	1 5/8	1 1/2	3	5 - 10 : 120	3700	3000	12600 - 12800	-	2700 - 3400	12600 - 12800
CSG-7410ES CSG-7410ES/12 (38) Mixed two-stroke fuel	HAD-344 (A021-004950)	-	d	3 1/2	2	2 1/2*	10 - 5 : 120	3700	2800	-	-	2600 - 3000	-
									Brand-new Carburetor or Diaphragm : 3300			3100 - 3400	
CSG-7410ES CSG-7410ES/12 (38) Premixed alkylate fuel	HAD-344 (A021-004950)	-	d	3 3/8	2	2 1/2*	10 - 5 : 120	3750	2800	-	-	2600 - 3000	-
									Brand-new Carburetor or Diaphragm : 2800				

--- Initial settings ---

H & L mixture needles: Turn H and L mixture needles CW until lightly seated, then turn both mixture needles CCW.

TAS: Turn screw CCW until its tip no longer touches the throttle plate. Then turn screw CW until its tip just comes into contact with the plate again. Finally, turn the screw CW for the respective number of rotations.

* Turn TAS clockwise until lightly seated. Then turn TAS counterclockwise.

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

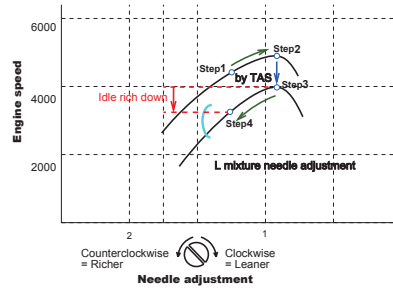
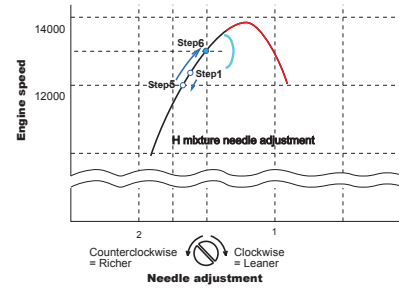
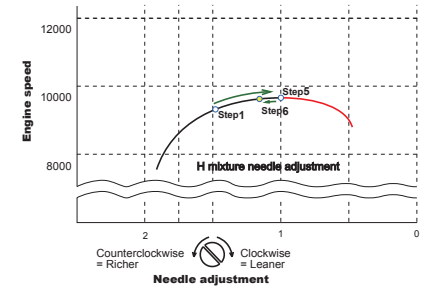
*2 Must make adjustments with guide bar and chain provided with product.

Table 1: Limiter cap / plug

C1	A259-000030	
C2	125329-09860	
C5	P005-001520	
C6	P005-001530	
P1	A259-000000	
P2	P005-001270	
P5	A259-000060	

Table 2: Tool

a	
b	
c	
d	
f	

Fig. 1: Idle setting

Fig. 2: WOT setting

Fig. 3: WOT setting


Adjustment process ->						Step 1: Initial settings			Engine warm-up	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment		
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/ plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed		Final Idle range (r/min)	Final WOT range with shield (r/min)	
										Step 3: Set idle speed with TAS (r/m)			Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed			
GT-2150 (36) GT-2150SI (36)	C1U-K53B (125200-52436)	L : C2 H : C1	b		F4 (3.0): Cut by shield knife	1 1/4	1 1/4	2 1/2	10 - 50: 180	3550	2750	7500 - 8000	-	-	2300 - 3000	7500 - 8000	
GT-220ES (36)(37)	RB-K87 (A021-001462) RB-K93 (A021-001692)	P2	b		G137 (3.0): Cut by shield knife	1 3/8	2 3/4	1 1/2	5 - 10: 180	3800	3000	-	-	10 - 30	2600 - 3400	7000 - 8000	
					Other								7300				
GT-222ES (37)(38)	RB-K113 (A021-003881) R09-001 (A091-000000)	P2 P5	b		G137 (3.0): 130	1 1/8 3/4	3 7/8 3 1/4	7 3/4* 6 1/4*	10 - 50: 180	4100	3000	-	-	10 - 30	2600 - 3400	6700 - 7700	
					G137 (2.0): 150											7700 - 8700	
		R09-002 (A091-000020)	P5	L: b H: f		G137 (3.0): 130	1 1/8 3/4	3 7/8 3 1/4	7 3/4* 6 1/4*	10 - 50: 180	4100	3000	-	-	10 - 30	2600 - 3400	6700 - 7700
						G137 (2.0): 150											7700 - 8700

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/ plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed		Final Idle range (r/min)	Final WOT range with shield (r/min)
													Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed		
SRM-220ES (36)(37)	RB-K87 (A021-001462) RB-K93 (A021-001692)	P2	b		G138 (3.0): Cut by shield knife	1 3/8	2 3/4	2 1/2	5 - 10: 180	3800	3000	-	-	10 - 30	2600 - 3400	8000 - 9700
					Other								8800			-
SRM-222ES (37)(38)	RB-K113 (A021-003881) R09-001 (A091-000000)	P2 P5	b		G138 (3.0): 180	1 1/8 3/4	3 7/8 3 1/4	7 3/4 * 6 1/4 *	10 - 50: 180	4100	3000	-	-	10 - 30	2600 - 3400	9000 - 10000
					G138 (2.0): 200											9500 - 10500
	R09-002 (A091-000020)	P5	L: b H: f		G138 (3.0): 180	1 1/8 3/4	3 7/8 3 1/4	7 3/4 * 6 1/4 *	10 - 50: 180	4100	3000	-	-	10 - 30	2600 - 3400	9000 - 10000
					G138 (2.0): 200											9500 - 10500
SRM-235 (37) SRM-235ES (37)	RB-K93 (A021-001692)	P2	b		F4 (3.0): 140	3/4	2 5/8	2 3/8	5 - 5: 120	3800	2900	-	-	10 - 20	2500 - 3300	8400 - 9400
					Other								9100			-
SRM-236 (- 37013302) SRM-236ES (-37006656)	RB-K113 (A021-003881)	P2	b		F4 (3.0): 180	1 1/8	3 1/4	5 1/4*	10 - 50: 180	3700	2300 Increase 3000 by TAS	-	-	Turn out by 3/8	2500 - 3500	8600 - 10000
					Other								8000			-

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/ plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed		Final Idle range (r/min)	Final WOT range with shield (r/min)
										Step 3: Set idle speed with TAS (r/m)			Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed		
SRM-236 (37013303 -) (38) SRM-236ES (37006657 -)	RB-K113 (A021-003881)	P2	b		F4 (3.0): 180 SF400 (2.4 SILENTWIST): 185	1 1/8	3 1/4	5 1/4*	10 - 50: 180	4100	3000	-	-	Turn out by 3/8	2500 - 3500	8600 - 10000
					SF400 (2.4 BLACK DIAMOND): 175								-			8200 - 9200
					Other								8000			-
SRM-236TES (37) (38)	RB-K113 (A021-003881)	P2	b		F4 (3.0): 210 SF400 (2.4 SILENTWIST): 220	1 1/8	3 1/4	5 1/4*	10 - 50: 180	4100	3000	-	-	Turn out by 3/8	2500 - 3500	9500 - 10500
					SF400 (2.4 BLACK DIAMOND): 210								-			9300 - 10300
					Other								8000			-
SRM-237 (38)	RB-K113 (A021-003881)	P2	b		SF400 (2.4 BLACK DIAMOND): 175	1 1/8	3 1/4	5 1/4*	10 - 50: 180	4100	3000	-	-	Turn out by 3/8	2500 - 3500	8200 - 9200
					Other								8000			-
SRM-237TES (38)	RB-K113 (A021-003881)	P2	b		SF400 (2.4 BLACK DIAMOND): 210	1 1/8	3 1/4	5 1/4*	10 - 50: 180	4100	3000	-	-	Turn out by 3/8	2500 - 3500	9300 - 10300
					Other								8000			-

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/ plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diam- eter): Line length or Blade diam- eter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to con- firm engine speed re- duces Step 6: Adjust H mix- ture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mix- ture needle CCW to re- duce WOT speed by the follow- ing speed	Final Idle range (r/min)	Final WOT range with shield (r/min)
SRM-2305 (36) SRM-2305SI (36)	C1U-K53B (125200-52436)	L : C2 H : C1	b		F4 (3.0): Cut by shield knife	1 3/8	1 1/4	2 3/4	10 - 50: 180	3550	2750	8200 - 10000	-	-	2400 - 3200	8200 - 10000
SRM-2306 SRM- 2306ES (37)	RB-K87 (A021-001462) RB-K93 (A021-001692)	P2	b		F4 (3.0): Cut by shield knife	2 3/8 3/4	1 1/2 2 5/8	3 1/4 2 3/8	5 - 5: 120	3500	2700 Increase 2900 by TAS	-	-	20 - 50	2700 - 3100	8400 - 9400
					Other								9200			-
SRM-240ES (37)	RB-K97 (A021-003220)	P2	b		F4 (3.0): 140	1 1/4	2 3/4	2 1/2	10 - 50: 180	3800	3000	-	-	10 - 20	2500 - 3500	8000 - 9600
					Other								8000			-
SRM-250 (36) SRM-250SI (36)	C1U-K53B (125200-52436)	L : C2 H : C1	b		F4 (3.0): Cut by shield knife	1 3/8	1 1/4	2 5/8	10 - 50: 180	3300	2650	9000 - 9500	-	-	2300 - 3500	9000 - 9500
SRM-2655 (36) SRM-2655SI (36)	WYJ-192B (123000-57732)	P1	b		Z5 (3.0): Cut by shield knife	#37**	12 1/2*	2 1/2	10 - 50: 180	3500	2700	-	-	-	2400 - 3000	8500 Minimum
SRM-265 (37)(38) SRM-265ES (37)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b		F4 (3.0): 180	1 1/2	1 1/2	3 1/4	5 - 5: 120	3700	2900	-	-	10	2600 - 3200	8900 - 9900
					Other								8500			-
SRM- 265TES (37)	RB-K94 (A021-001742)	P2	b		Z5 (3.0): 265	1 1/2	1 1/2	3 1/4	5 - 5: 120	3700	2900	-	-	10	2600 - 3200	10000 - 11000
					Other								8500			-

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/ plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diam- eter): Line length or Blade diam- eter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mix- ture needle CCW to con- firm engine speed re- duces Step 6: Adjust H mix- ture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mix- ture needle CCW to re- duce WOT speed by the follow- ing speed	Final Idle range (r/min)	Final WOT range with shield (r/min)
SRM-267 (38)	RB-K94 (A021-001742)	P2	b		Rapid-Loader 25 (2.4): 200	1 1/2	1 1/2	3 1/4	5 - 5: 120	3700	2900	-	-	10	2600 - 3200	9300 - 10300
					Other								8500			-
SRM-2620ES (37) (38)	WYG-9 (A021-004600)	-	c		F4 (3.0): 190 SF400 (2.4 SILENTWIST): 200	3	7 1/4*	7 3/4*	10 - 50: 180	4000	3000	-	-	20 - 30	2700 - 3500	9000 - 10000
					SF400 (2.4 BLACK DIAMOND): 190								-			8900 - 9900
					Other								8500			-
SRM-2620TES (37)(38)	WYG-9 (A021-004600)	-	c		Z5 (3.0): 285 SF400 (2.4 SILENTWIST): 295	3	7 1/4*	7 3/4*	10 - 50: 180	4000	3000	-	-	20 - 30	2700 - 3500	10400 - 11800
					SF400 (2.4 BLACK DIAMOND): 285								-			10300 - 11700
					Other								8500			-
SRM-2621ES (38)	WYG-9 (A021-004600)	-	c		SF400 (2.4 BLACK DIAMOND): 190	3	7 1/4*	7 3/4*	10 - 50: 180	4000	3000	-	-	20 - 30	2700 - 3500	8900 - 9900
					Other								8500			-

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/ plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diam- eter): Line length or Blade diam- eter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mix- ture needle CCW to con- firm engine speed re- duces Step 6: Adjust H mix- ture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mix- ture needle CCW to re- duce WOT speed by the follow- ing speed	Final Idle range (r/min)	Final WOT range with shield (r/min)
SRM- 2621TES (38)	WYG-9 (A021-004600)	-	c		SF400 (2.4 BLACK DIAMOND): 285	3	7 1/4*	7 3/4*	10 - 50: 180	4000	3000	-	-	20 - 30	2700 - 3500	10300 - 11700
					Other								8500			-
SRM-300ES (37)(38)	WYK-233A (A021-001341)	P1	b		F4 (3.0): 165	3 1/4	12 1/8*	9 3/4*	5 - 5: 120	3500	2700	-	-	100	2500 - 3100	9000 - 9800
					Other								8500			-
SRM- 300TES (37) (38)	WYK-233A (A021-001341)	P1	b		Z5 (3.0): 220	3 1/4	12 1/8*	9 3/4*	5 - 5: 120	3500	2700	-	-	100	2500 - 3100	10300 - 11300
					Other								8500			-
SRM- 301TES (38)	WYK-233A (A021-001341)	P1	b		Rapid-Loader 25 (2.4): 300	3 1/4	12 1/8*	9 3/4*	5 - 5: 120	3500	2700	-	-	100	2500 - 3100	10300 - 11300
					Other								8500			-
SRM- 3020TES (37)(38)	WYG-11 (A021-004830)	-	c		SF400 (2.4 SILENTWIST): 245	3 5/8	10 7/8*	9 7/8*	10 - 50: 180	4000	2900	-	-	30 - 50	2700 - 3200	9900 - 10500
					SF400 (2.4 BLACK DIA- MOND): 230								-			9800 - 10400
					Other								9000			-
SRM- 3021TES (38)	WYG-11 (A021-004830)	-	c		SF400 (2.4 BLACK DIA- MOND): 230	3 5/8	10 7/8*	9 7/8*	10 - 50: 180	4000	2900	-	-	30 - 50	2700 - 3200	9800 - 10400
					Other								9000			-
SRM-330ES (36)	WYJ-312A (A021-000421)	P1	b		Z5 (3.0): Cut by shield knife	#44*	13*	4 1/2	10 - 50: 180	3550	2650	-	-	-	2200 - 3400	9500 Minimum

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->						Step 1: Initial settings			Engine warm-up	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment		
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/ plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Idle - WOT: Total (sec.)	Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed		Final Idle range (r/min)	Final WOT range with shield (r/min)
														Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed		
SRM-335ES (37)	WYK-283 (A021-001550)	P1	b		Z5 (3.0): 175	3 1/8	11 1/2*	3 1/4	5 - 5: 120	3600	2800	-	-	80 - 100	2500 - 3200	8500 - 9500	
					Other								8500			-	
SRM-335TES (37)	WYK-283 (A021-001550)	P1	b		Z5 (3.0): 270	3 1/8	11 1/2*	3 1/4	5 - 5: 120	3600	2800	-	-	100 - 120	2500 - 3200	10000 - 11000	
					Other								8500			-	
SRM-350ES (36)	WYJ-373B (A021-000932)	P1	b		Z5 (3.0): Cut by shield knife	#38**	13*	4 1/2	10 - 50: 180	3550	2650	-	-	-	2300 - 3300	9500 Minimum	
SRM-360SL (36)	DPR11-1H (124200-64731)	-	a		Z5 (3.0): Cut by shield knife	1 1/2	-	2 1/2	10 - 50: 180	2750	-	-	-	400	2500 - 3400	8300 - 8800	
					Other								7000			-	
SRM-3610T (37)(38)	RB-110137B (A021-004820)	P2	b		Z5 (3.0): 230	1 1/4	1 3/4	9 3/4*	10 - 50: 180	3500	2700 Increase 2900 by TAS	-	9000 	Turn out by 5/8	2600 - 3300	9900 - 10300	
					Other								9000			-	
NOTE: Confirm maximum WOT speed just before the WOT speed drops, turning H mixture needle clockwise. The maximum speed is approximately 9000 r/min.																	
SRM-3611T (38)	RB-110137B (A021-004820)	P2	b		Z5 (3.0): 230	1 1/4	1 3/4	9 3/4*	10 - 50: 180	3500	2700 Increase 2900 by TAS	-	9000 	Turn out by 5/8	2600 - 3300	9900 - 10300	
					Other								9000			-	
NOTE: Confirm maximum WOT speed just before the WOT speed drops, turning H mixture needle clockwise. The maximum speed is approximately 9000 r/min.																	
SRM-4000 (36)	WYK-134C (A021-000282)	P1	b		Z5 (3.0): Cut by shield knife	#56**	12*	4	10 - 50: 180	3500	2500	-	-	-	2200 - 2900	9500 Minimum	
SRM-4000 (36)	WYK-218 (A021-001050)	P1	b		Z5 (3.0): Cut by shield knife	3 3/4	12*	4	10 - 50: 180	3500	2500	9500 - 10500	-	-	2200 - 2900	9500 - 10500	

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/ plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diam- eter): Line length or Blade diam- eter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mix- ture needle CCW to con- firm engine speed re- duces Step 6: Adjust H mix- ture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mix- ture needle CCW to re- duce WOT speed by the follow- ing speed	Final Idle range (r/min)	Final WOT range with shield (r/min)
SRM-4000 (36)	WYK-226 (A021-001170)	P1	b		Z5 (3.0): Cut by shield knife	4	12 1/4*	1 3/8	10 - 50: 180	3500	2700	9000 - 10000	-	-	2500 - 2900	9000 - 10000
SRM-4000 (36)	WYK-226A (A021-001172)	P1	b		Z5 (3.0): Cut by shield knife	3 3/8	12 1/2*	3/4	10 - 50: 180	3500	2500	9000 - 10000	-	-	2300 - 2700	9000 - 10000
SRM-410ES (36)	WYK-226A (A021-001172)	P1	b		DS-5 (3.0): 225	4	12 1/4*	2 3/8	10 - 20: 180	3500	2500	-	-	120	2300 - 2700	9000 - 10000
					Other								8000			
SRM-420ES (37)(38)	WT-1046 (A021-003840) WT-1170 (A021-004610)	-	d		DS-5 (3.0): 190	3	2 3/8	2 1/8	10 - 50: 180	3550	2750	-	-	120	2400 - 3200	9500 - 10500
					Other								8500			
SRM-420ES- LW (37)(38)	WT-1170 (A021-004610)	-	d		DS-5 (3.0): 190	3	2 3/8	2 1/8	10 - 50: 180	3550	2750	-	-	120	2400 - 3200	9500 - 10500
					Rapid-Loader 35 (2.7): 215								-			
					Other								8500			
SRM- 420TES (37) (38)	WT-1046 (A021-003840) WT-1170 (A021-004610)	-	d		B6 (3.0): 240	3	2 3/8	2 1/8	10 - 50: 180	3550	2750	-	-	120	2400 - 3200	9800 - 11000
					Other								8500			
SRM-5000 (36)	WYK-216 (A021-001030) WYK-227 (A021-001160)	P1	b		DS-5 (3.0): Cut by shield knife	4 4	12* 12 1/2*	4 1/2 3 3/4	10 - 50: 180	3400	2500	9700 - 10300	-	-	2200 - 2800	9700 - 10300
SRM-510ES (33)(36)	WYK-341 (A021-001860)	P1	b		DS-5 (3.0): 225	3 3/4	12*	1 1/2	10 - 20: 120	3500	2750	-	-	120	2500 - 3000	9500 - 11000
					Other								8000			

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/ plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diam- eter): Line length or Blade diam- eter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to con- firm engine speed re- duces Step 6: Adjust H mix- ture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mix- ture needle CCW to re- duce WOT speed by the follow- ing speed	Final Idle range (r/min)	Final WOT range with shield (r/min)
SRM-520ES (37)(38)	WT-1096 (A021-004220)	-	d		DS-5 (3.0): 210	2 3/4	2	2 1/8	10 - 50: 180	3600	2800	-	-	120	2400 - 3300	10500 - 11100
					Other								9000			-
SRM-580 (36)	C3M-K80 (A021-000953)	L : C6 H : C5	a		Metal blade: 255	1/2	1 1/4	1	10 - 20: 120	3250	2600	11300 - 12300	-	-	2300 - 2800	11300 - 12300
SRMF-250 (37)	WYL-214A (A021-002740)	-	c		F4 (3.0): Cut by shield knife	#36.5**	8*	7/8	30 - 60: 90	3300	3000	-	-	-	2600 - 3300	9000 Minimum
SRMF-340 (37)	WYL-255 (A021-002510)	-	c		Z5 (3.0): Cut by shield knife	#41**	7 1/2*	1	5 - 10: 120	3300	2900	-	-	-	2600 - 3300	9000 Minimum
CLS-5000 (36)	WYK-216 (A021-001030J)	P1	b		B6 (3.0): Cut by shield knife	4	12*	4 1/2	10 - 20: 120	3400	2450	9700 - 10300	-	-	2200 - 2800	9700 - 10300
CLS-5010 (36)	WYK-227 (A021-001160)	P1	b		B6 (3.0): Cut by shield knife	4	12 1/2*	3 3/4	10 - 20: 120	3400	2450	9700 - 10300	-	-	2000 - 2700	9700 - 10300
BCLS-510ES (36)	WYK-341 (A021-001860)	P1	b		B6 (3.0): Cut by shield knife	3 3/8	13 1/2*	3/4	10 - 20: 120	3500	2500	9000 - 10000	-	-	2300 - 2700	9000 - 10000
CLS-5800 (36) CLS-5810 (36) BCLS-580 (36)	C3M-K80 (A021-000953)	L : C6 H : C5	a		B6 (3.0): Cut by shield knife	1/2	1 5/8	3 3/8	10 - 50: 180	3250	2600	10000 - 12000	-	-	2300 - 2800	10000 - 12000
BCLS-520ES (38)	WT-1096 (A021-004220)	-	d		B6 (3.0): 197	2 3/4	2	2 1/8	10 - 50: 180	3600	2800	-	-	120	2400 - 3300	9700 - 10700
					Other								9000			-
RM-4000 (36) RM-4000SI (36)	WYK-134C (A021-000282)	P1	b		Z5 (3.0): Cut by shield knife	#56**	12*	4	10 - 50: 180	3500	2500	-	-	-	2200 - 2900	9500 Minimum
RM-4000 (36) RM-4000SI (36)	WYK-218 (A021-001050)	P1	b		Z5 (3.0): Cut by shield knife	3 3/4	12*	4	10 - 50: 180	3500	2500	9500 - 10500	-	-	2200 - 2900	9500 - 10500

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed	Final Idle range (r/min)	Final WOT range with shield (r/min)
RM-4000 (36) RM-4000SI (36)	WYK-226 (A021-001170)	P1	b		Z5 (3.0): Cut by shield knife	4	12 1/4*	1 3/8	10 - 50: 180	3500	2700	9200 - 9800	-	-	2500 - 2900	9200 - 9800
RM-4000 (36) RM-4000SI (36)	WYK-226A (A021-001172)	P1	b		Z5 (3.0): Cut by shield knife	3 3/8	12 1/2*	3/4	10 - 50: 180	3500	2500	9000 - 10000	-	-	2300 - 2700	9000 - 10000
RM-410ES (36)	WYK-226A (A021-001172)	P1	b		Z5 (3.0): 225	4	12 1/4*	2 3/8	10 - 20: 180	3500	2500	-	-	120	2300 - 2700	9000 - 10000
					Other								7500			-
RM-5000 (36)	WYK-173A (A021-000591)	P1	b		Z5 (3.0): Cut by shield knife	#57**	12*	4	10 - 50: 180	3400	2500	-	-	-	2300 - 2700	9500 Minimum
RM-5000 (36)	WYK-216 (A021-001030) WYK-227 (A021-001160)	P1	b		Z5 (3.0): Cut by shield knife	4 4	12* 12 1/2*	4 1/2 3 3/4	10 - 50: 180	3400	2500	9500 - 10300	-	-	2300 - 2700	9500 - 10300
RM-510ES (33)(36)	WYK-341 (A021-001860)	P1	b		Z5 (3.0): Cut by shield knife	3 3/8	13 1/2*	3/4	10 - 20: 120	3500	2500	9000 - 10000	-	-	2300 - 2700	9000 - 10000
RM-520ES (37)(38)	WT-1096 (A021-004220)	-	d		Z5 (3.0): 220	2 7/8	1 7/8	2 1/4	10 - 50: 180	3600	2800	-	-	120	2400 - 3300	10400 - 11400
					Other								9000			-

--- Initial setting ---

H & L mixture needles: Turn H and L mixture needles CW until lightly seated, then turn both mixture needles CCW.

* Turn L mixture needle counterclockwise until a clicking sound is heard. Then, screw the needle CW for the respective number of rotations.

** Size of fixed main jet - there is no H needle adjustment.

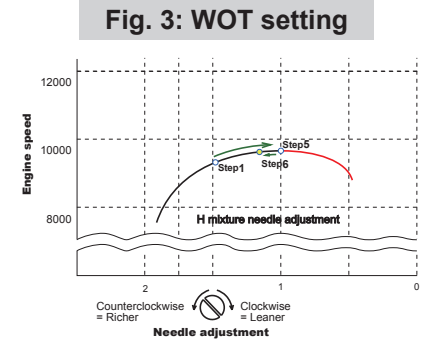
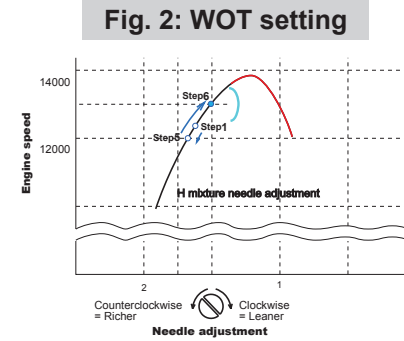
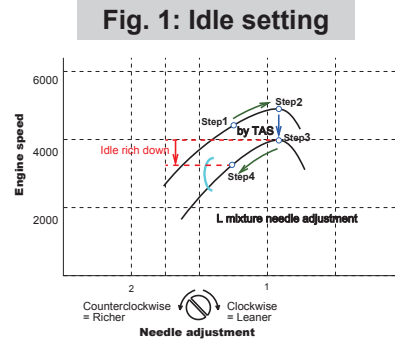
TAS: Turn screw CCW until its tip no longer touches the throttle plate. Then turn screw CW until its tip just comes into contact with the plate again. Finally, turn the screw CW for the respective number of rotations.

* Turn TAS CW until its head touches boss. Then turn TAS CCW.

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Table 1: Limiter cap / plug		
C1	A259-000030	
C2	125329-09860	
C3	125329-39030	
C4	P003-000010	
P1	A259-000000	
P2	P005-001270	

Table 2: Tool	
a	Screwdriver 2 mm
b	Screwdriver 2.5 mm



Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3	Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed	Final Idle range (r/min)	Final WOT range (r/min)
HC-1500 (36)	C1U-K51 (125200-05967)	L : C2 H : C1	b	1 3/4	1 3/4	3 7/8	10 - 50 : 180	3500	3000	9800 - 10800	-	2700 - 3300	9800 - 10800
HCR-1500 (36) HCR-1500SI (36)	C1U-K51 (125200-05967)	L : C2 H : C1	b	1 3/4	1 3/4	3 7/8	10 - 50 : 180	3500	3000	9800 - 10800	-	2700 - 3300	9800 - 10800
HCR-1510 (36)	C1U-K54A (125200-13128)	L : C2 H : C3	b	1 1/2	1 1/2	2 3/4	10 - 10 : 180	3800	2800	-	1/4	2400 - 3200	7900 - 8500
HC-1600 (36)	C1U-K51 (125200-05967)	L : C2 H : C1	b	1 3/4	1 3/4	3	10 - 50 : 180	3500	2700 Increase 3000 by TAS	10000 - 11500	-	2700 - 3300	10000 - 11500
HCR-161ES (36) HCR-171ES (36)	RB-K86 (A021-001450) RB-K92A (A021-001672) RB-K115 (A021-004081)	P2	b	1 1/8	2 3/4	3	10 - 10 : 180	4600	3100 Increase 3300 by TAS	-	200	3000 - 3600	10500 - 12000
HC-155ES (36)	RB-K91A (A021-001613)	P2	b	1 1/8	2 1/2	2 3/4	10 - 10 : 180	4650	3300	-	200	3000 - 3600	10500 - 12000
HC-156 (37)(38)	RB-K92A (A021-001673)	P2	b	1 1/8	2	8 1/4*	10 - 10 : 180	4600	3300	-	1/4	2900 - 3700	10500 - 11800
HC-1501 HCR-1501 (37) (38)	RB-K92A (A021-001673)	P2	b	1 1/8	2	8 1/4*	10 - 10 : 180	4600	3300	-	1/4	2900 - 3700	10500 - 11800

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3	Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed	Final Idle range (r/min)	Final WOT range (r/min)
HCR-165ES HCR-185ES (37) (38)	RB-K119 (A021-004670)	P2	b	1/2	2 1/2	7 1/2*	0 - 300 : 300	4100	3300	-	150	2900 - 3600	10000 - 11000
HC-2020 HC-2020R HC-2320 (38)	RB-Z011/67A (A021-004900)	P2	b	1 1/8	3 1/4	7 5/8*	10 - 50 : 240	4100	3300	-	130 - 190	2900 - 3700	10000 - 11000
HC-2400 (36) HC-2410 (36)	C1U-K51 (125200-05967)	L : C2 H : C1	b	1 3/4	1 3/4	3 1/8	10 - 50 : 180	3500	2700 Increase 3000 by TAS	10500 - 12000	-	2700 - 3300	10500 - 12000
HC-2810ESR (37) (38)	RB-K119 (A021-004670)	P2	b	7/8	3	7 1/8*	0 - 120 : 120	4100	3300	-	100 - 150	2900 - 3700	10000 - 12000
HCS-2810ES HCS-3210ES HCS-3810ES (37)(38)	RB-K119 (A021-004670)	P2	b	7/8	3	7 1/8*	0 - 120 : 120	4100	3300	-	100 - 150	2900 - 3700	10000 - 12000
HC-30ES (36) HC-30ESW (36) HC-40ES (36)	WYL-192A (A021-000692)	L : P1 H : Nil	b	#35**	12*	7 3/4	10 - 10 : 180	3900	3000	-	-	2700 - 3300	8000 Minimum
HC-331ES (36) HC-341ES (36)	RB-K91A (A021-001613)	P2	b	1 1/2	2 1/2	2 3/4	10 - 10 : 180	4700	3000	-	200	2700 - 3300	10500 - 11700

--- Initial setting ---

H & L mixture needles: Turn H and L mixture needles CW until lightly seated, then turn both mixture needles CCW.

* Turn L mixture needle counterclockwise until a clicking sound is heard. Then, screw the needle CW for the respective number of rotations.

** Size of fixed main jet - there is no H needle adjustment.

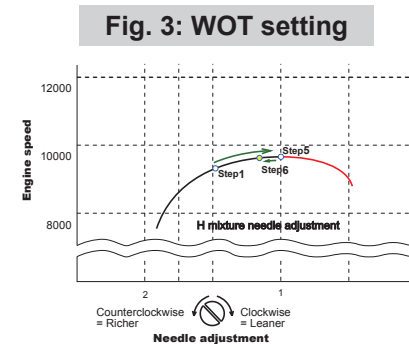
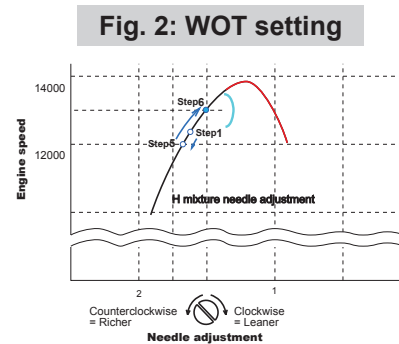
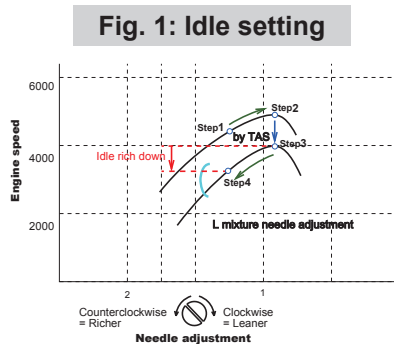
TAS: Turn screw CCW until its tip no longer touches the throttle plate. Then turn screw CW until its tip just comes into contact with the plate again. Finally, turn the screw CW for the respective number of rotations.

* Turn TAS CW until its head touches boss. Then turn TAS CCW.

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

Table 1: Limiter cap / plug		
C4	P003-000010	
P1	A259-000000	
P2	P005-001270	

Table 2: Tool	
a	Screwdriver 2 mm
b	Screwdriver 2.5 mm
c	D-shaped (S)



Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield *2	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces	Step 5: Adjust H mixture needle to max. WOT speed		Final Idle range (r/min)	Final WOT range (r/min)
										Step 3: Set idle speed with TAS (r/m)		Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed		
HCAS-2200 (36)	RB-K75 (A021-000740) RB-K87 (A021-001462)	P2	b	-	-	2	2	2 1/2	5 - 5 : 120	3500	2900	-	-	100	2700 - 3200	9500 - 11500
HCAS-235ES (37)	RB-K93 (A021-001692)	P2	b	-	-	3/4	2 5/8	2 3/8	5 - 5 : 120	4000	3000	-	-	1/2	2500 - 3500	10000 - 11200
HCAS-235ES-LW (37)	RB-K93 (A021-001692)	P2	b	-	-	3/4	2 5/8	2 3/8	5 - 5 : 120	4000	3000	-	-	1/2	2500 - 3500	10000 - 11200
HCA-236ES-LW HCAS-236ES-LW (37)(38)	RB-K113 (A021-003881)	P2	b	-	-	1 5/8	3 3/4	5 1/2	10 - 50 : 180	4300	3000	-	-	3/8	2500 - 3500	10500 - 11700
HCA-2400 (36)	WT-424C (123000-52133)	C4	a	-	-	3 1/4	2 1/4	1 1/2	5 - 5 : 120	3450	2700	9500 - 10500	-	-	2400 - 3200	9500 - 10500
HCA-2500 (36)	WT-424C (123000-52133)	C4	a	-	-	3 1/4	2 1/4	1 1/2	5 - 5 : 120	3450	2700	9500 - 10500	-	-	2400 - 3200	9500 - 10500

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 When Load adapter is shown, install Load adapter 91156.

Adjustment process ->						Step 1: Initial settings			Engine warm-up	Fig.1		Fig.2	Fig.3	Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield *2	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces	Step 5: Adjust H mixture needle to max. WOT speed	Final Idle range (r/min)	Final WOT range (r/min)
HCA-2620ES-HD HCAS-2620ES-HD (37)(38)	WYG-9 (A021-004600)	-	c		F4 (3.0): 190 SF400 (2.4): 200 Other	3	7 1/4*	7 3/4*	10 - 50 : 180	4000	3000	-	Step 5': Adjust nylon line lengths to obtain the following speed	20 - 30	2700 - 3500
NOTE: Before adjusting carburetor, install ECHO PAS-TRIMMER attachment 999442-00840 or Trimmer attachment MTA-TB. In the step7, remove the attachment and reinstall standard equipment.															
HCA-265ES (36)	RB-K89 (A021-001532)	P2	b	-	-	1 1/2	2	7 *	5 - 5 : 120	3700	2900	-	-	10	2600 - 3300
HCA-265ES (37)	RB-K94 (A021-001742)	P2	b	-	-	1 1/2	2	7 *	5 - 5 : 120	3700	2900	-	-	10	2600 - 3300
HCA-265ES-LW HCA-265ES-HD (37)(38)	RB-K94 (A021-001742)	P2	b	-	-	1 1/2	2	7*	5 - 5 : 120	3700	2900	-	-	10	2600 - 3300
SHC-2400 (36) SHC-2400SI (36)	WT-424C (123000-52133)	C4	a	-	-	3 1/4	2 1/4	1 1/2	5 - 5 : 120	3450	2700	9500 - 10500	-	-	2400 - 3200
PAS-2620ES (37)(38) Trimmer MTA-TB	WYG-9 (A021-004600)	-	c		F4 (3.0): 190 SF400 (2.4 SILENTWIST): 200 SF400 (2.4 BLACK DIAMOND): 190 Other	3	7 1/4*	7 3/4*	10 - 50 : 180	4000	3000	-	-	20 - 30	2700 - 3500
PAS-2620ES (37)(38) Hedge Trimmer MTA-AH-HD MTA-AHS-HD	WYG-9 (A021-004600)	-	c	NOTE: Install Trimmer attachment MTA-TB and follow the above adjustment steps.										2700 - 3500	10600 - 11900
PAS-2620ES (37)(38) Tiller/Cultivator MTA-TC	WYG-9 (A021-004600)	-	c	NOTE: Install Trimmer attachment MTA-TB and follow the above adjustment steps.										2700 - 3500	10600 - 11900

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 When Load adapter is shown, install Load adapter 91156.

Adjustment process ->						Step 1: Initial settings			Engine warm-up	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment		
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield *2	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Idle - WOT: Total (sec.)	Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed		Final Idle range (r/min)	Final WOT range (r/min)
														Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed		
PAS-2620ES (37)(38) Pro Sweep MTA-PS	WYG-9 (A021-004600)	-	c	NOTE: Install Trimmer attachment MTA-TB and follow the above adjustment steps.										2700 - 3500	10600 - 11900		
PAS-2620ES (37)(38) Power Pruner MTA-PP/E	WYG-9 (A021-004600)	-	c	NOTE: Install Trimmer attachment MTA-TB and follow the above adjustment steps.										2700 - 3500	10600 - 11900		
PAS-2620ES (37)(38) Edger MTA-LE/E	WYG-9 (A021-004600)	-	c	NOTE: Install Trimmer attachment MTA-TB and follow the above adjustment steps.										2700 - 3500	10600 - 11900		
PAS-2620ES (37)(38) Blower MTA-PB	WYG-9 (A021-004600)	-	c	NOTE: Install Trimmer attachment MTA-TB and follow the above adjustment steps.										2700 - 3500	8900 - 9500		
PAS-265ES (37) Trimmer (999442-00840)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b		F4 (3.0): 180	1 1/2	2	7*	5 - 5 : 120	3700	2900	-	-	10	2600 - 3200	9400 - 10400	
			Other	8500	-												
PAS-265ES (37) Brushcutter (999442-00800)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b	NOTE: Install Trimmer attachment (999442-00840) and follow the above adjustment steps.										2600 - 3200	Metal blade 255: 10200 - 11200		
PAS-265ES (37) ProSweep (999442-00553)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b	NOTE: Install Trimmer attachment (999442-00840) and follow the above adjustment steps.										2600 - 3200	10400 - 11400		
PAS-265ES (37) Blower (999442-00890)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b	NOTE: Install Trimmer attachment (999442-00840) and follow the above adjustment steps.										2600 - 3200	8550 - 9050		

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 When Load adapter is shown, install Load adapter 91156.

Adjustment process ->						Step 1: Initial settings			Engine warm-up	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment		
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield *2	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Idle - WOT: Total (sec.)	Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces Step 6: Adjust H mixture needle to set WOT (r/m)	Step 5: Adjust H mixture needle to max. WOT speed		Final Idle range (r/min)	Final WOT range (r/min)
											Step 3: Set idle speed with TAS (r/m)			Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed		
PAS-265ES (37) Cultivator (999442-00813)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b	NOTE: Install Trimmer attachment (999442-00840) and follow the above adjustment steps.										2600 - 3200	10400 - 11400		
PAS-265ES (37) Edger (999442-00875)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b	NOTE: Install Trimmer attachment (999442-00840) and follow the above adjustment steps.										2600 - 3200	10400 - 11400		
PAS-265ES (37) Power Pruner (999442-00832)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b	NOTE: Install Trimmer attachment (999442-00840) and follow the above adjustment steps.										2600 - 3200	10400 - 11400		
PAS-265ES (37) Hedge Trimmer (HCAA-2401A)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b	NOTE: Install Trimmer attachment (999442-00840) and follow the above adjustment steps.										2600 - 3200	10300 - 11300		
PAS-265ES (37) Hedge Trimmer (999442-00885)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b	NOTE: Install Trimmer attachment (999442-00840) and follow the above adjustment steps.										2600 - 3200	10400 - 11400		
PAS-2400 (36) Trimmer (999442-00840)	WT-424C (123000-52133)	C4	a		F4 (3.0): 180	3 1/4	2 1/4	2 1/8	5 - 5 : 120	3450	2700	-	-	10 - 20	2400 - 3200	7000 - 10000	
PPF-235ES (37)	RB-K93 (A021-001692)	P2	b	-	SRM-235ES fan cover and shaft	3/4	2 5/8	2 3/8	5 - 5 : 120	3800	2900	-	-	1/2	2500 - 3300	10400 - 11400	
					(2.4 dia.): 210								8250				
PPF-236ES (37)(38)	RB-K113 (A021-003881)	P2	b	-	10" guide bar and saw chain	1 5/8	3 3/4	5 1/2	10 - 50 : 180	4300	3000	-	-	3/8	2500 - 3500	10400 - 11400	
					(2.4 dia.): 210								8000				

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 When Load adapter is shown, install Load adapter 91156.

Adjustment process ->						Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield *2	Engine Load Nylon head (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces	Step 5: Adjust H mixture needle to max. WOT speed		Final Idle range (r/min)	Final WOT range (r/min)
													Step 3: Set idle speed with TAS (r/m)	Step 6: Adjust H mixture needle to set WOT (r/m)		
PPF-300ES (37)	WYK-233A (A021-001340)	P1	b	- 	12" guide bar and saw chain	3 1/8	13 1/4*	9 5/8*	5 - 5 : 120	3500	2700	-	-	20 - 40	2500 - 3000	10400 - 11400
				(2.4 dia.): 210	8500											
PPF-2100 (36) (37)	RB-K75 (A021-000740) RB-K87 (A021-001462)	P2	b	-	-	1 1/2	1 1/2	2 3/8	10 - 50 : 180	3500	2700	-	-	300	2400 - 3200	8500 - 10500
PPT-2100 (36) (37)	RB-K75 (A021-000740) RB-K87 (A021-001462)	P2	b	-	-	1 1/2	1 1/2	2 1/2	10 - 50 : 180	3500	2700	-	-	300	2400 - 3200	8500 - 10500
PPT-235ES (37)	RB-K93 (A021-001692)	P2	b	- 	SRM-235ES fan cover and shaft	3/4	2 5/8	2 3/8	5 - 5 : 120	3800	2900	-	-	1/2	2500 - 3300	10400 - 11000
				(2.4 dia.): 210	8250											
PPT-236ES (37)(38)	RB-K113 (A021-003881)	P2	b	- 	10" guide bar and saw chain	1 5/8	3 3/4	5 1/2	10 - 50 : 180	4300	3000	-	-	3/8	2500 - 3500	10400 - 11400
				(2.4 dia.): 210	8000											
PPT-2400 (36)	WT-424C (123000-52133)	C4	a	-	-	3 1/4	2 1/4	1 3/4	10 - 5 : 120	3450	2700	10500 - 11500	-	-	2400 - 3200	10500 - 12000
PPT-2620ES/HES (37)(38)	WYG-9 (A021-004600)	-	c		(2.4 dia.): 210	3	7 1/4*	7 3/4*	10 - 50 : 180	4000	3000	-	8500	20 - 30	2700 - 3500	11130 - 11370
PPT-265ES (37)	RB-K89 (A021-001532) RB-K94 (A021-001742)	P2	b	- 	12" guide bar and saw chain	1 3/8	2 1/2	8 1/8*	5 - 5 : 120	3700	2900	-	-	10	2600 - 3200	10500 - 11000
				(2.4 dia.): 210	8500											
PPT-300ES (37)	WYK-233A (A021-001340)	P1	b	- 	12" guide bar and saw chain	3 1/8	13 1/4*	9 5/8*	5 - 5 : 120	3500	2700	-	-	20 - 40	2500 - 3000	10400 - 11400
				(2.4 dia.): 210	8500											

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 When Load adapter is shown, install Load adapter 91156.

Adjustment process ->						Step 1: Initial settings			Engine warm-up	Fig.1		Fig.2	Fig.3		Step 7: Verify final engine speed with standard equipment		
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	Shield *2	Engine Load (Line diameter): Line length or Blade diameter (mm)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Idle - WOT: Total (sec.)	Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Turn H mixture needle CCW to confirm engine speed reduces	Step 5: Adjust H mixture needle to max. WOT speed		Final Idle range (r/min)	Final WOT range (r/min)
											Step 3: Set idle speed with TAS (r/m)			Step 5': Adjust nylon line lengths to obtain the following speed	Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed		
EDR-2100 (36)	WYL-180A (A021-000541)	P1	b	-	-	#32.5**	13*	1 3/8	10 - 50 : 180	3300	2900	-	-	-	2500 - 3500	9000 Minimum	
EDR-2400 (36)	WYL-56A (123000-21361)	P1	b	-	-	#37**	13*	1 3/8	10 - 50 : 180	3300	2900	-	-	-	2500 - 3500	9000 Minimum	
EA-410 (36)	WYK-226A (A021-001172)	P1	b	-	-	3 1/8	13 1/2*	3/4	10 - 20 : 120	3500	2500	9800 - 11500	-	-	2300 - 2700	9800 - 11500	

--- Initial setting ---

H & L mixture needles: Turn H and L mixture needles CW until lightly seated, then turn both mixture needles CCW.

* Turn L mixture needle counterclockwise until a clicking sound is heard. Then, screw the needle CW for the respective number of rotations.

** Size of fixed main jet - there is no H needle adjustment.

TAS: Turn screw CCW until its tip no longer touches the throttle plate. Then turn screw CW until its tip just comes into contact with the plate again. Finally, turn the screw CW for the respective number of rotations.

* Turn TAS CW until its head touches boss. Then turn TAS CCW.

*1 If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.

*2 When Load adapter is shown, install Load adapter 91156.

Table 1: Limiter cap / plug		
C2	125329-09860	
C3	125329-39030	
C4	P003-000010	
C8	125329-08560	
P1	A259-000000	
P2	P005-001270	

Table 2: Tool	
a	Screwdriver 2 mm
b	Screwdriver 2.5 mm
c	D-shaped (S)
e	Short D-shaped (S)

Fig. 1: Low speed setting

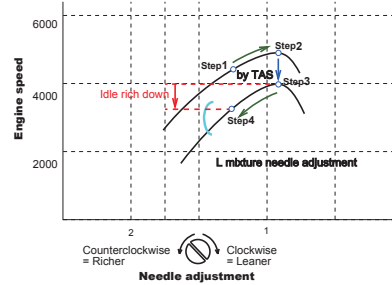
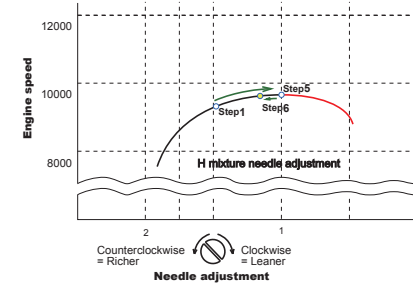


Fig. 3: WOT setting



Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.3	Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Adjust H mixture needle to max. WOT speed	Final Idle range (r/min)	Final WOT range (r/min)
DM-4610 (36)	WYK-200 (A021-001041)	P1	b	3 1/4	12*	-	10 - 50 : 180	3300	2800	20	2500 - 3000	7000 Minimum
DM-6110 (36)(37)	WYK-201 (A021-000991)	P1	b	#47**	12*	-	10 - 50 : 180	3300	2800	-	2500 - 3000	8000 Minimum
MB-580 (36)	WYK-375 (A021-003590)	P1	b	#47**	12*	1 1/2	10 - 50 : 180	3300	2800	-	2500 - 3100	8200 Minimum
MB-5810 (38)	WYK-377 (A021-003630)	P1	b	3 1/2	6 3/4	10 1/8*	10 - 180 : 190	3200	2600	40	2300 - 2900	7800 Minimum
ES-2100 (36) ES-2200 (36)	C1U-K43B (125200-20665)	L : C2 H : C8	b	1 1/2	1 1/2	1 3/8	10 - 50 : 180	3000	2750	10 - 20	2400 - 3200	6900 - 8100
ES-2400 (36)	C1U-K44B (125200-09565)	L : C2 H : C8	b	1 3/4	1 1/2	2 1/2	10 - 50 : 180	3000	2750	30 - 40	2400 - 3200	7500 - 8800
ES-250ES (37)(38)	WTA-33 (A021-001882)	-	c	2 3/4	1 3/4	1/2	10 - 50 : 180	3400	3000	20	2700 - 3300	Vacuum: 6600 - 7200 Blower: 7300 - 7400
ES-255ES (37)(38)	RB-K85 (A021-001350) RB-K90 (A021-001593)	P2	b	7/8	4 1/8	1 5/8*	10 - 50 : 180	3400	2900	10 - 20	2500 - 3100	Vacuum: 6000 - 6500 Blower: 7000 - 7300
PB-2100 (36)	C1U-K42B (125200-20565)	L : C2 H : C8	b	1 1/2	1 3/4	1 1/2	10 - 50 : 180	3000	2750	20 - 30	2400 - 3200	6800 - 7700
PB-2155 (36) PB-2200SI (36)	C1U-K43B (125200-20665)	L : C2 H : C8	b	1 1/2	1 1/2	1 1/2	10 - 50 : 180	3000	2750	10 - 20	2400 - 3200	6800 - 7700
PB-2455 (36) PB-2550 (36)	C1U-K44B (125200-09565)	L : C2 H : C8	b	1 3/4	1 1/2	1 1/8	10 - 50 : 180	3000	2750	30 - 40	2400 - 3200	7500 - 8700

Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.3	Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1 Step 3: Set idle speed with TAS (r/m)	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Adjust H mixture needle to max. WOT speed Step 6: Turn H mixture needle CCW to reduce WOT speed by the following speed	Final Idle range (r/min)	Final WOT range (r/min)
PB-24LN (36)	WT-417C (123000-09664)	C4	a	3 3/8	2 1/4	1 1/8	10 - 50 : 180	3300	3000	20 - 30	2600 - 3200	7400 - 7800
PB-250 (37)	WTA-33 (A021-001882)	-	c	2 3/4	1 3/4	1/2	10 - 50 : 180	3400	3000	20	2700 - 3300	7300 - 7400
PB-2520 (37)(38)	RE110147C (A021-004700)	P2	b	1 3/4	2 1/2	13*	10 - 180: 190	3500	3000	10 - 30	2800 - 3200	7150 Minimum
PB-251 (37)	RB-K85 (A021-001350) RB-K90 (A021-001593)	P2	b	7/8	4 1/8	1 5/8*	10 - 50 : 180	3500	3000	10 - 20	2800 - 3400	7200 - 7500
PB-255ES (37)(38)	RB-K85 (A021-001350) RB-K90 (A021-001593)	P2	b	7/8	4 1/8	1 5/8*	10 - 50 : 180	3400	2900	10 - 20	2700 - 3300	7200 - 7500
PB-260LSI (36)	WYJ-257A (A021-000122)	P1	b	#33**	12*	6 1/2	10 - 50 : 180	3200	2900	-	2800 - 3200	6800 Minimum
PB-2620 (38)	WYG-14 (A021-004930)	-	c	2 1/4	7 3/4*	13*	10 - 180 : 190	3500	3000	20 - 40	2850 - 3150	7150 Minimum
PB-265ESL (37)	RB-K85 (A021-001352)	P2	b	1 1/8	4 3/4	5	10 - 50 : 180	3500	2950	10 - 20	2800 - 3200	6700 - 7200
PB-265ESLT (37) (38)	RB-K85 (A021-001352)	P2	b	1 1/8	4 3/4	5	10 - 50 : 180	3500	2950	10 - 20	2800 - 3200	6700 - 7200
PB-46LN (36)	C1M-K37D (125200-08566)	L : C2 H : C8	b	2	1 3/4	2 7/8	10 - 50 : 180	2750	2450	110	2400 - 2700	6200 - 6600
PB-500 (37)	WLA-1 (A021-001642)	-	c	3	1 1/2	3/8	10 - 50 : 180	3000	2550	40	2300 - 3000	6500 - 7000
PB-580 (37)(38)	WTA-35 (A021-004330)	-	c	2 3/4	3	3 7/8	10 - 180 : 190	3200	2700	20 - 40	2500 - 2900	6500 - 6800
PB-6000 (36)	C1M-K49C (125200-08667)	L : C2 H : C3	b	1 1/2	1 1/2	1 1/2	10 - 50 : 180	3050	2800	20 - 30	2500 - 2900	7400 Minimum
PB-620 (36)	C1M-K76 (A021-000773)	L : C2 H : C3	b	3	1 3/4	3 1/8	10 - 50 : 180	2750	2500	10 - 20	2400 - 3000	7300 - 7600
PB-625 (36) (37)	C1M-K76 (A021-000773)	L : C2 H : C3	b	3	1 3/4	3 1/8	10 - 50 : 180	2750	2500	10 - 20	2400 - 3000	7300 - 7600
PB-650 (36)	WYK-150A (A021-000311)	P1	b	#58.5**	11 1/2*	5/8	10 - 50 : 180	2700	2500	-	2200 - 2700	6800 Minimum
PB-655 (36)	WYK-192 (A021-000811)	P1	b	3 3/4	9*	8*	10 - 50 : 180	2800	2550	10 - 20	2400 - 2800	6800 - 7300
PB-750 (36)	WYK-179A (A021-000621)	P1	b	#50**	10 1/2*	4 7/8	10 - 50 : 180	2700	2500	-	2200 - 2700	6800 Minimum
PB-755 (36)	WYK-192 (A021-000811)	P1	b	3 3/4	9*	8*	10 - 50 : 180	2800	2550	10 - 20	2400 - 2800	6800 - 7300

Adjustment process ->				Step 1: Initial settings			Engine warm-up Idle - WOT: Total (sec.)	Fig.1		Fig.3	Step 7: Verify final engine speed with standard equipment	
Model (Spec. code)	Carburetor (Parts No.)	Limiter cap/plug (Table 1)	Tool to adjust mixture needles (Table 2)	H mixture needle	L mixture needle	Throttle Adjust Screw (TAS)		Step 2: Adjust L mixture needle to max. idle speed *1	Step 4: Turn L mixture needle CCW to set idle speed (r/m)	Step 5: Adjust H mixture needle to max. WOT speed	Final Idle range (r/min)	Final WOT range (r/min)
PB-760LN (37)	WYK-387 (A021-003971)	-	c	3 5/8	6 1/2*	5/8	10 - 50 : 180	3000	2500	10	2300 - 2700	5800 - 6200
PB-770 (37)(38)	WYK-345 (A021-001870) WYK-406 (A021-003941)	-	c	4 3/4	5 1/4*	9*	10 - 50 : 180	3000	2500	10	2300 - 2700	6600 - 6800
PB-8010 (38)	WYAB-1 (A021-004920)	-	e	2 1/2	2	9 1/4*	30 - 180 : 210	2900	2500	60 - 80 	2300 - 2700	7500 Minimum
NOTE: Before adjusting H mixture needle to WOT maximum speed, warm up the engine 180 sec. with WOT engine speed 7650 r/min over.												
SHR-150SI (36)	RB-K69A (A021-000663)	P2	b	1 1/2	3	1 3/4	10 - 50 : 180	3500 	2950	200	2700 - 3200	6700 - 7500
NOTE: If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.												
SHR-170SI (37)	RB-K107 (A021-003601)	P2	b	1 1/2	3	1 3/4	10 - 50 : 180	3500 	2950	200	2700 - 3200	6700 - 7500
NOTE: If clutch engages during adjustment, reduce engine speed by turning TAS CCW until clutch disengages and then redo step 2.												

--- Initial setting ---

H & L mixture needles: Turn H and L mixture needles CW until lightly seated, then turn both mixture needles CCW.

* Turn L mixture needle counterclockwise until a clicking sound is heard. Then, screw the needle CW for the respective number of rotations.

** Size of fixed main jet - there is no H needle adjustment.

TAS: Turn screw CCW until its tip no longer touches the throttle plate. Then turn screw CW until its tip just comes into contact with the plate again. Finally, turn the screw CW for the respective number of rotations.

* Turn TAS CW until its head touches boss. Then turn TAS CCW.

