SAFETY DECALS

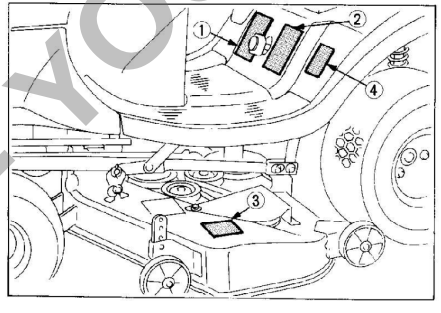
- The following safety decals are installed on the vehicle and mower.
  If a decal becomes damaged, illegible or is not on the vehicle and mower, replace it. The decal part number is listed in the parts list.

① Part No. K1122-6581-1



② Part No. K1122-6582-1





③ Part No. K5112-7312-1



④ Part No. K1122-6584-1



B185F001

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SPECIFICATIONS

Model			T1760	
Engine	Model		WG510V	
	Type		Liquid-cooled, Vertical shaft, OHV, 4-stroke engine	
	Number of cylinders		2	
	Bore and stroke		67 mm × 62 mm (2.64 in. × 2.44 in.)	
	Total displacement		437 cm^3 (26.7 cu.in.)	
	Maximum horsepower		12.6 kW / 3600 min^{-1} (17 HP / 3600 rpm)	
	Maximum bare speed		3500 to 3625 min^{-1} (rpm)	
	Minimum bare idling speed		1550 ± 75 min^{-1} (1550 ± 75 rpm)	
	Direction of rotation		Counterclockwise facing the PTO shaft	
	Ignition system		Transistor-controlled battery-ignition system	
	Spark plug		NGK BMR6A	
	Carburetor		Float type with fixed main jet	
	Air cleaner		Dual stage element	
	Governor		Mechanical fly weight type	
	Lubricating system		Forced lubrication by oil pump	
	Cooling system		Pressurized radiator, Forced circulation with water pump	
	Starting system		Shift type electric startor	
	Charging system		Charging coil (12 V, 20 A) with regulator	
	Battery		U1L-9 (12 V, 300 CCA)	
	Throttle system		ATA (Auto Throttle Advance)	
	Engine stop system		Key stop	
Capacities	Fuel tank		11.0 ℓ (2.9 U.S.gals., 2.4 Imp. gals.)	
	Radiator coolant		2.1 ℓ (2.2 U.S.gals., 1.8 Imp. gals.)	
	Engine crankcase		1.5 ℓ (1.6 U.S.qts., 1.3 Imp.qts.)	
	Hydrostatic transmission		2.4 ℓ (2.5 U.S.qts., 2.1 Imp.qts.)	
Dimensions	Overall length		1727 mm (68.0 in.)	
	Overall width		1444 mm (56.9 in.)	1544 mm (60.8 in.)
	Overall height		1120 mm (44.1 in.)	
	Wheel base		1195 mm (47.0 in.)	
	Tread	Front	720 mm (28.3 in.)	
		Rear	690 mm (27.2 in.)	
Weight (with mower)			270 kg (595 lbs)	275 kg (606 lbs)
Tire size	Front		15 × 6.00 - 6	
	Rear		20 × 10.00 - 8	
Steering system			Sector gear type	
Transmission			Hydrostatic transmission	
Brake			Internal disk type	
Traveling speed	Forward		0 to 9.0 km / h (0 to 5.6 mph)	
	Reverse		0 to 5.0 km / h (0 to 3.1 mph)	
PTO clutch			Belt tension	
Mower	Model		RCK44LT-17	RCK48LT-17
	Overall length		793 mm (31.2 in.)	863 mm (34.0 in.)
	Overall width		1444 mm (56.9 in.)	1544 mm (60.8 in.)
	Overall height		289 mm (11.4 in.)	
	Mounting method		Parallel linkage	
	Adjustment of cutting height		Dial gauge	
	Cutting width		1118 mm (44 in.)	1219 mm (48 in.)
	Cutting height		25 to 102 mm (1.0 to 4.0 in.)	
	Number of blades		3	
	Weight (Approx.)		50 kg (110 lbs)	55 kg (121 lbs)
	Discharge		Right side	

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[2] MAINTENANCE CHECK LIST

To keep the machine working in good condition as well as to avoid any accident and trouble, carry out periodic inspection and maintenance. Check the following points before use.

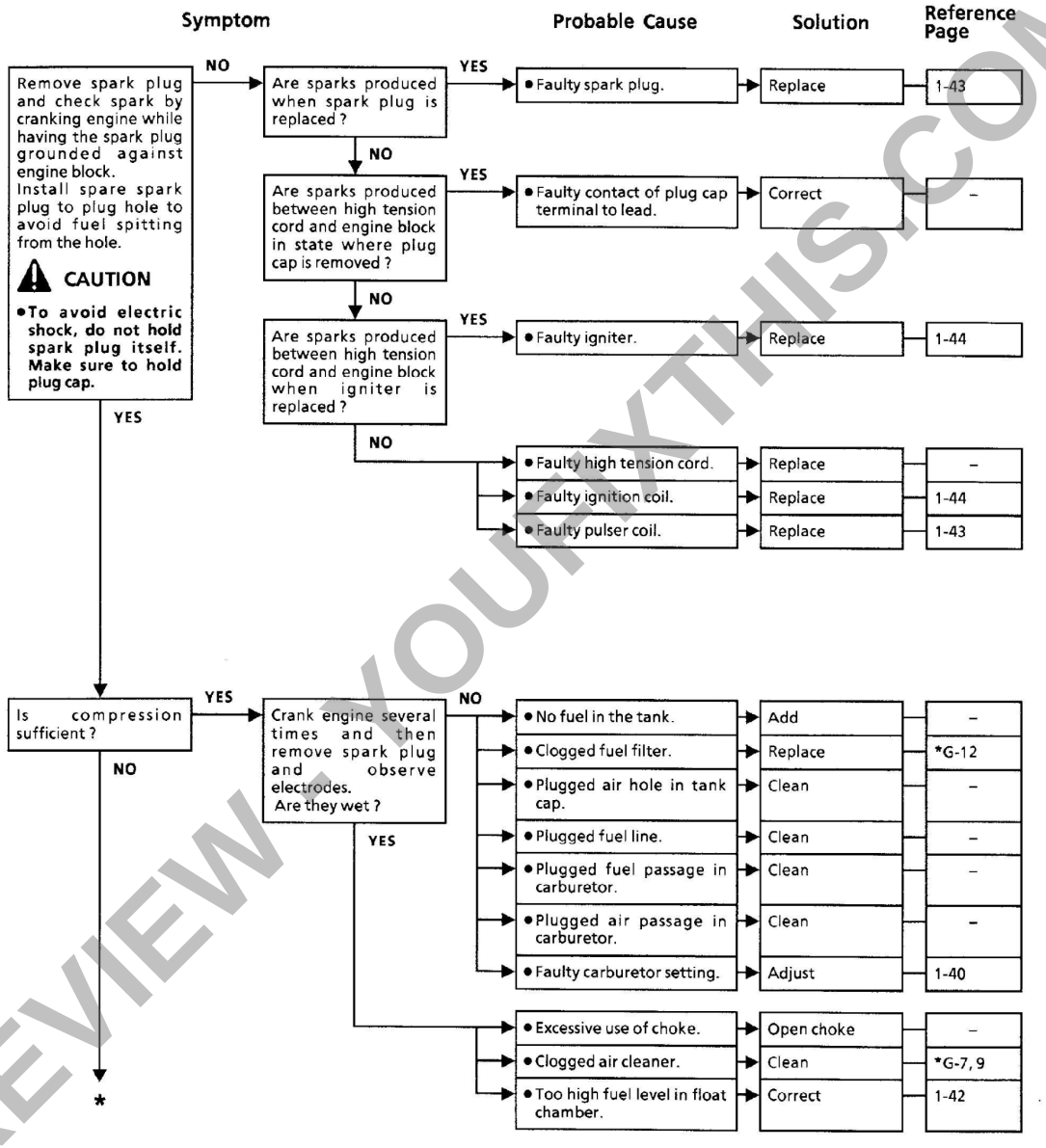
Service Interval	Check Points	Reference Page
Daily (Each use)		
[Walking around the machine]	• Check the tire pressure, wear and damage	*G-5
	• Check the oil and water leaks	—
	• Check the engine oil level	*G-5
	• Check the fuel level	—
	• Check the transmission oil level	G-4
	• Check the damage of machine body, tightness of all screws, bolts and nuts	—
	• Check the brake play	3-2
	• Check the battery electrolyte level	*G-6
	• Check the air intake screen and radiator screen	G-3
	• Check the coolant level	G-4
[While sitting in the operator's seat]	• Check the speed change pedal restriction	2-7
	• Check the parking brake	3-2
	• Check the steering wheel	*5-2
[Turning the key switch on]	• Check the head lights	—
[Starting the engine]	• Check the color of the exhaust fumes	—
	• Check the safety start switch and seat safety control	*G-6
	• Check for abnormal noise and vibration	—
[Mower]	• Make sure blade screws are tight	9-8
	• Check the blades for wear or damage	9-3
	• Check the all hardware	—
	• Make sure all pins are in place	—
[Others]	• Check the areas where previous trouble was experienced	—
Initial 3 Months or 25 Hours	• Grease the all grease nipples	*G-7
	• Check the all belts	*G-7
	• Check the PTO belt tension	*7-2
	• Check and adjust the brake play	3-2
Every 3 Months or 25 Hours	• Clean the air cleaner foam element	*G-7
	• Oiling	*G-8
Initial 6 Months or 50 Hours	• Change the engine oil	*G-9
Every 6 Months or 50 Hours	• Clean the air cleaner paper element	*G-9
	• Check the battery electrolyte gravity	*8-6
	• Check the all belts	*G-7
	• Check the PTO belt tension	*7-2
	• Check and adjust the brake play	3-2
	• Grease the all grease nipples	*G-7
	• Check the radiator hose and clamp	G-4
Annually or Every 100 Hours	• Change the engine oil	*G-9
	• Check the spark plug	*G-10
	• Check the fuel filter	*G-11
	• Clean the fuel tank	*G-11
	• Check and adjust the throttle cable	1-39
	• Check and adjust the ATA PTO cable	1-45
	• Check and adjust the ATA speed cable	1-46
	• Change the coolant	G-5
	• Check and clean the radiator core	G-5

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TROUBLESHOOTING

[Hard Starting]



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IGNITION SYSTEM

Item		Factory Specification	Allowable Limit
Spark Plug	Gap	0.6 to 0.7 mm 0.024 to 0.028 in.	–
Pulser Coil	Resistance	88 to 132 Ω	–
Igniter	Resistance	See the table in page 1-44	–
Ignition Coil Primary Coil	Resistance	3.4 to 4.6 Ω	–
Secondary Coil	Resistance	10.4 to 15.6 Ω	–

AUTO THROTTLE ADVANCE SYSTEM

Throttle Lever	Operating Force	20 to 44 N 2.0 to 4.5 kgf 4.5 to 9.9 lbs	–

TIGHTENING TORQUES

Tightening torques of screws, bolts and nuts on the table below are especially specified.
(For general use screws, bolts and nuts : See page *G-3)

Item	N·m	kgf·m	ft-lbs
Lock nut (Valve clearance adjusting screw)	8.8	0.9	6.5
Drain plug (Engine oil)	24.5	2.5	18.1
Muffler cover mounting screw	9.8 to 11.3	1.00 to 1.15	7.2 to 8.3
Muffler tail pipe mounting screw	9.8 to 11.3	1.00 to 1.15	7.2 to 8.3
Duct mounting screw (Bumper side)	9.8 to 11.3	1.00 to 1.15	7.2 to 8.3
Plate mounting screw (Bumper side)	9.8 to 11.3	1.00 to 1.15	7.2 to 8.3
Front bumper mounting screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Rubber sheet stay mounting nut (Radiator side)	7.9 to 9.3	0.80 to 0.95	5.8 to 6.9
Cooling fan mounting screw	5.9	0.6	4.3
Air duct screw	5.9	0.6	4.3
Starter **B** terminal nut	9.8 to 13.7	1.0 to 1.4	7.2 to 10.1
Battery negative cable screw (Engine body side)	15	1.5	10.9
Engine mounting nut	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Engine pulley mounting screw	48.1 to 55.9	4.9 to 5.7	35.5 to 41.2
Muffler mounting nut	9.8 to 11.3	1.00 to 1.15	7.2 to 8.3
Coolant reservoir mounting screw	3.9	0.4	2.9
Rotor mounting nut	88.3	9.0	65.1
Fuel pump mounting screw	16.7	1.7	12.3
Governor lever nut	7.8	0.8	5.8
Carburetor mounting nut	7.8	0.8	5.8
Intake manifold mounting screw	8.8	0.9	6.5
Head cover mounting screw	5.9	0.6	4.3
Spark plug	16.7	1.7	12.3
Cylinder head screw	20.6	2.1	15.2
Crankcase cover mounting screw	20.6	2.1	15.2
Water pump mounting screw (M6)	8.8	0.9	6.5
Water pump mounting screw (M8)	20.6	2.1	15.2
*Connecting rod screw	11.8	1.2	8.7
Oil pump mounting screw	7.8	0.8	5.8
Thermostat cover screw	5.9	0.6	4.3
Fuel cut off solenoid	9.8	1.0	7.2

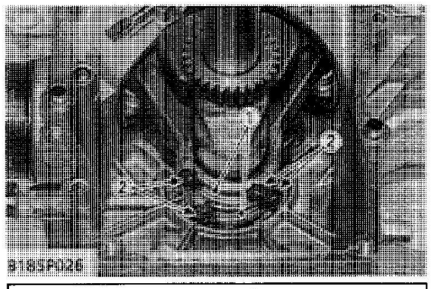
■ **NOTE**

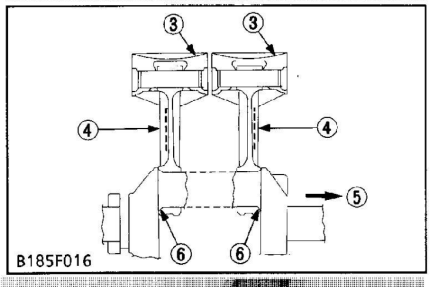
- **For * marked screws, bolts and nuts on the table, apply engine oil to their threads and seats before tightening.**

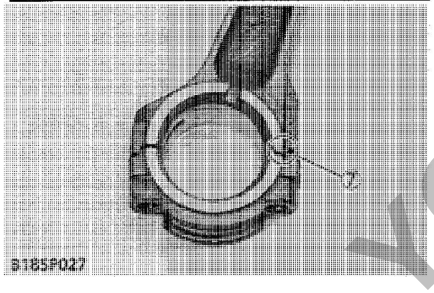
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(6) Piston and Crankshaft







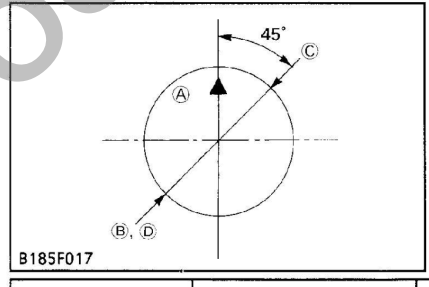
Piston and Connecting Rod

1. Turn the crankshaft to expose the connecting rod screws (2).

■ **NOTE**
- **Mark the connecting rod caps (1) so they can be installed in their original positions during assembly.**

2. Unscrew the screws (2) and remove the connecting rod caps (1).
3. Turn the crankshaft to bring the pistons to the top dead center.
4. Push the connecting rod end into the cylinder, and pull out the pistons and connecting rods.

(When reassembling)
- Turn the crankshaft until the crankpin comes to lowest position.
- Install pistons and connecting rods noting the direction of arrow match mark (3), raised letters (MADE IN JAPAN) (4) shown in the figure.
- Before inserting the piston, apply engine oil to the cylinder bore and bearing portion of connecting rod big end.
- Using a piston ring compressor (Code No. 07909-32111), insert the piston and connecting rod into the cylinder.
- Apply engine oil to the bearing portion of the connecting rod caps, and install them so the pilot grooves (7) on the caps and rods are aligned.
- Apply engine oil to the connecting rod screws.
- When inserting the piston into the cylinder, place the piston ring gaps as follows.



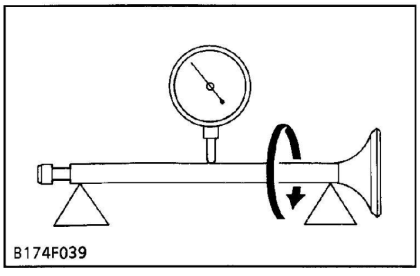
(A) Arrow Match Mark
(B) Top Ring End Gap
(C) Upper Side Rail End Gap
(D) Lower Side Rail End Gap

Tightening torque	Connecting rod screw	11.8 N·m 1.2 kgf·m 8.7 ft-lbs

(1) Connecting Rod Cap
(2) Connecting Rod Screw
(3) Arrow Match Mark (▼)
(4) Raised Letters (MADE IN JAPAN)
(5) Flywheel Side
(6) Large Chamfers
(7) Pilot Groove

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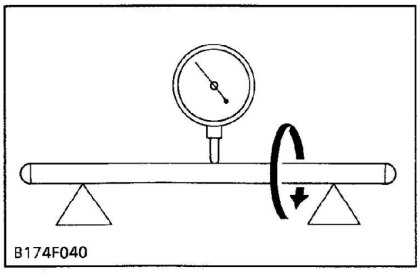
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B174F039

Valve Stem Runout

1. Place the valve on V blocks.
2. Measure the valve stem runout.
3. If the measurement exceeds the allowable limit, replace the valve.

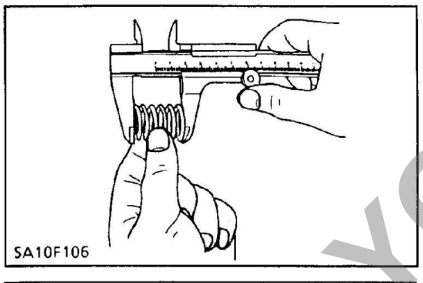
Valve stem runout	Allowable limit	0.03 mm 0.0012 in.


B174F040

Push Rod Runout

1. Place the push rod on V blocks.
2. Measure the push rod runout.
3. If the measurement exceeds the allowable limit, replace the push rod.

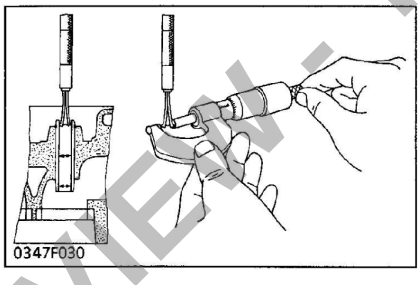
Push rod runout	Allowable limit	0.80 mm 0.0315 in.


SA10F106

Valve Spring Free Length

1. Measure the valve spring free length with vernier calipers.
2. If the measurement is less than the allowable limit, replace it.

Intake and exhaust valve spring free length	Allowable limit	27.30 mm 1.0748 in.


0347F030

Valve Guide I. D.

1. Remove carbon from the valve guide section.
2. Measure the valve guide I.D. at three position (see figure) with a small hole gauge.
3. If the measurement exceeds the allowable limit, replace the cylinder head.

■ **NOTE**

- **Valve guide is not replaceable.**

Intake and exhaust valve guide I.D.	Allowable limit	5.06 mm 0.1992 in.

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