WSM

WORKSHOP MANUAL

MANUEL D'ATELIER

WERKSTATTANLEITUNG

W5019,W5021

Kubota

KiSC issued 12, 2017 A

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A. SUPPLEMENT

A1. W5019-T-B·W5021-T-B·W5021-HT-B ——— A

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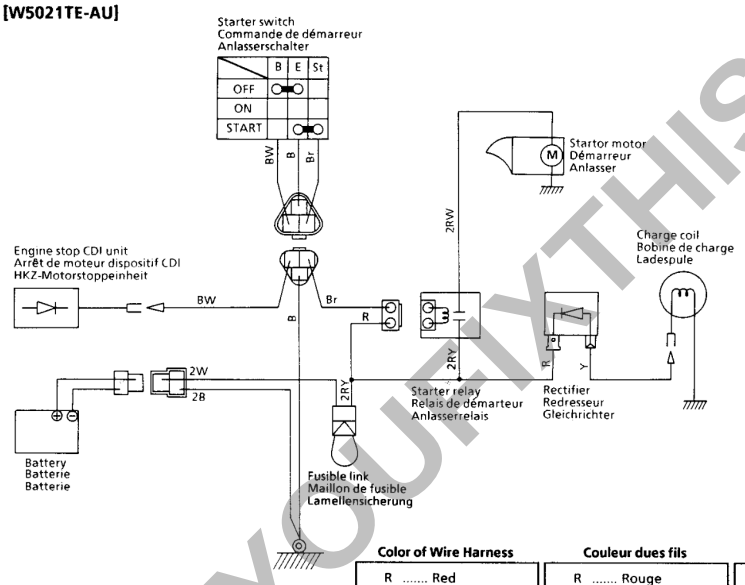
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4 WIRING DIAGRAM (-SCE,-TCE,-TE)

4 DIAGRAMME DES CABLAGES (-SCE,-TCE,-TE)

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[W5021SCE] **[W5021TE-AU]**

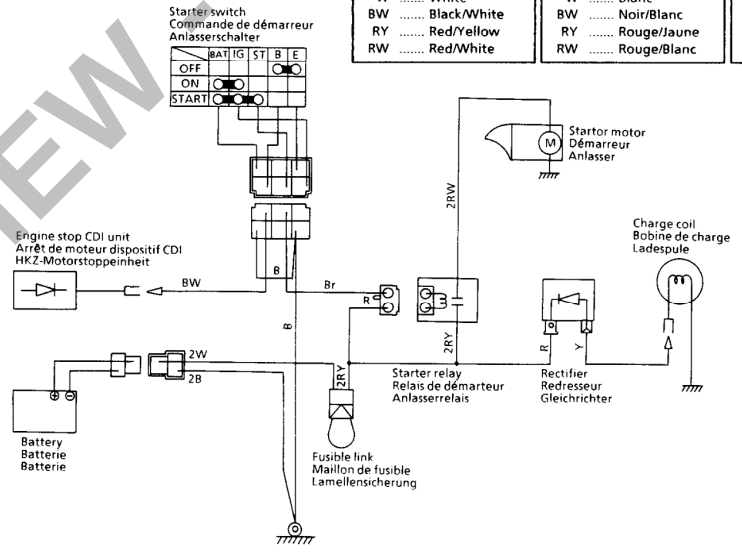


B048F012

Color of Wire Harness	Couleur dues fils	Kabelbaum farbe
R ..... Red	R ..... Rouge	R ..... Rot
B ..... Black	B ..... Noir	B ..... Schwarz
Y ..... Yellow	Y ..... Jaune	Y ..... Gelb
Br ..... Brown	Br ..... Marron	Br ..... Braun
W ..... White	W ..... Blanc	W ..... Weiß
BW ..... Black/White	BW ..... Noir/Blanc	BW ..... Schwarz/Weiß
RY ..... Red/Yellow	RY ..... Rouge/Jaune	RY ..... Rot/Gelb
RW ..... Red/White	RW ..... Rouge/Blanc	RW ..... Rot/Weiß

[W5019TCE, W5021TCE]

[W5019TE-G]



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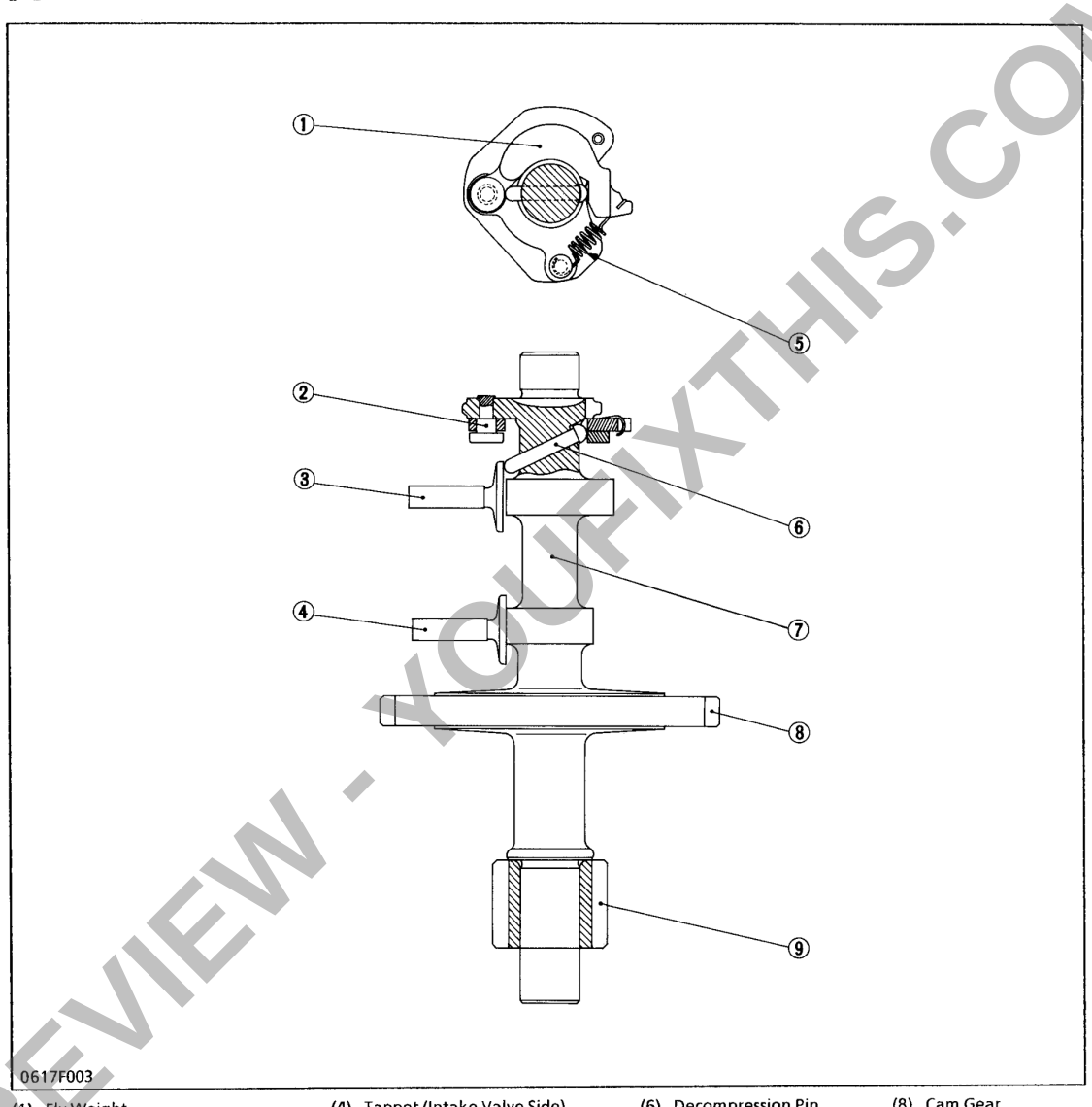
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1 ENGINE

[1] AUTOMATIC PRESSURE RELIEVING MECHANISM



(1) Fly Weight
(2) Fly Weight Shaft
(3) Tappet (Exhaust Valve Side)
(4) Tappet (Intake Valve Side)
(5) Decompression Spring
(6) Decompression Pin
(7) Camshaft
(8) Cam Gear
(9) Drive Gear

The automatic pressure relieving mechanism is installed on the camshaft to facilitate a start of the engine.

When the engine is started, the fly weight (1) located on the camshaft (7) undergoes a decompression spring tension and pushes up the tappet (3) (exhaust valve side) via the decompression pin (6).

By so doing, the compression is relieved and the recoil tension is reduced.

When the engine speed has reached 1000-1100 rpm, both the fly weight and the decompression pin are pressed against the inner wall of the device by the centrifugal force to permit normal running state.

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[7] TIGHTENING TORQUES

(1) Tightening Torques for Important Screws, Bolts and Nuts

Section	Item	N·m	kgf·m	ft-lbs
Engine	Drain plug	19.6 to 29.4	2.0 to 3.0	14.5 to 21.7
	Spark plug	9.8 to 24.5	1.0 to 2.5	7.2 to 18.1
	Governor lever mounting screw	6.9 to 11.8	0.7 to 1.2	5.1 to 8.7
	Lock nut (Rocker arm)	7.8 to 12.7	0.8 to 1.3	5.8 to 9.4
	Rotor mounting nut	58.8 to 68.6	6.0 to 7.0	43.4 to 50.6
	Cylinder head screw	24.5 to 32.4	2.5 to 3.3	18.1 to 23.9
	Crankcase cover mounting screw	9.8 to 14.7	1.0 to 1.5	7.2 to 10.8
	Connecting rod screw	13.7 to 19.6	1.4 to 2.0	10.1 to 14.5
	Float chamber mounting screw	6.9	0.7	5.1
	Main jet (Carburetor)	0.69	0.07	0.51
	Main nozzle (Carburetor)	2.0	0.2	1.4
Blade and Handle	Blade mounting screw	49.0 to 58.8	5.0 to 6.0	36.2 to 43.4
	Handle lock grip	8.34	0.85	6.15

(2) Tightening Torques for General Use Screws, Bolts and Nuts

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

Grade / Unit / Nominal Diameter	No-grade or 4T * (⬡ or ④)			7T * (⑦)		
	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M 6	7.85 to 9.32	0.80 to 0.95	5.79 to 6.87	9.81 to 11.28	1.00 to 1.15	7.23 to 8.32
M 8	17.65 to 20.59	1.80 to 2.10	13.02 to 15.19	23.54 to 27.46	2.40 to 2.80	17.36 to 20.25
M10	39.23 to 45.11	4.00 to 4.60	28.93 to 33.27	48.05 to 55.90	4.90 to 5.70	35.44 to 41.23
M12	62.76 to 72.57	6.40 to 7.40	46.29 to 53.52	77.47 to 90.22	7.90 to 9.20	57.14 to 66.54
M14	107.9 to 125.5	11.0 to 12.8	79.56 to 92.58	123.6 to 147.1	12.6 to 15.0	91.1 to 108.5
M16	166.7 to 191.2	17.0 to 19.5	123.0 to 141.0	196.1 to 225.6	20.0 to 23.0	144.7 to 166.4
M18	245.2 to 284.4	25.0 to 29.0	180.8 to 209.8	274.6 to 318.7	28.0 to 32.5	202.5 to 235.1
M20	333.4 to 392.3	34.0 to 40.0	245.9 to 289.3	367.7 to 431.5	37.5 to 44.0	271.2 to 318.3

* The figures on the table above are indicated the top of screw or bolt.

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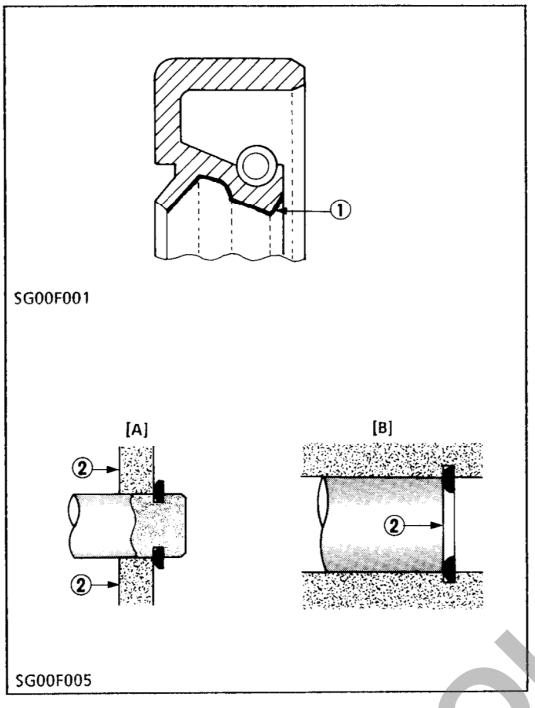
[5] TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Engine Will Not Crank	• Recoil starter faulty	Repair or replace recoil starter	–
	• Engine jammed	Check engine to find trouble and repair	–
	• Battery discharged	Charge the battery	–
	• Wiring harness disconnected	Connect	M-13
	• Starter defective	Repair or replace	S-101
	• Starter switch defective	Repair or replace	S-99
Engine Cranks Slowly but Does Not Start	• Increased resistance of moving parts	Repair or replace moving parts	–
	• Battery discharged	Charge the battery	–
	• Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	S-3
Engine Cranks at Normal Speed but Does Not Start	• No fuel	Replenish fuel	S-29
	• Air in fuel system	Bleed air	–
	• Water in fuel system	Take out water	–
	• Fuel pipe or fuel filter clogged or damaged	Clean or replace	S-35, S-41
	• Compression leak from cylinder (Compression pressure too low)	Replace head gasket and tighten cylinder head screw, or check cylinder liner and piston ring	–
	• Piston ring and cylinder liner worn	Replace piston ring and cylinder liner	S-77, S-81 S-83
	• Improper valve clearance	Adjust valve clearance	S-51
	• Defective ignition unit	Replace ignition unit	S-97
	• Defective spark plug	Adjust spark plug gap or replace spark plug	S-35
	• Defective fuel system	Check fuel line and carburetor, and repair	S-93
	• Overchoking	Wipe spark plug	–
	• Flooding from carburetor	Check carburetor and repair	S-93
	• Clogged air cleaner	Clean or replace air cleaner	S-31
Rough Low-speed Running and Idling	• Defective ignition unit	Replace ignition unit	S-97
	• Defective spark plug	Adjust spark plug gap or replace spark plug	S-35
	• Incorrect governor adjustment	Adjust governor	S-91
	• Improper valve clearance	Adjust valve clearance	S-51
Rough High-speed Running	• Defective ignition unit	Replace ignition unit	S-97
	• Defective spark plug	Adjust spark plug gap or replace spark plug	S-35
	• Incorrect governor adjustment	Adjust governor	S-91
Engine Speed Does Not Increase	• Defective ignition unit	Replace ignition unit	S-97
	• Incorrect carburetor adjustment	Adjust carburetor	–
Low Output	• Improper intake or exhaust valve sealing	Repair valve seat	S-73, S-75
	• Defective spark plug	Adjust spark plug gap or replace spark plug	S-35
	• Excessive carbon in engine	Remove carbon	–
	• Improper valve clearance	Adjust valve clearance	S-51
	• Piston ring and cylinder liner worn	Replace piston ring and cylinder liner	S-77, S-81 S-83

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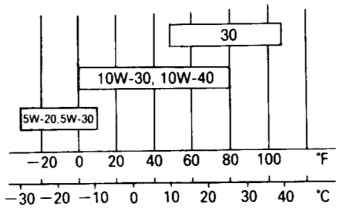
[3] GENERAL PRECAUTION



- Do not operate or idle the engine in a non-ventilated area.
- When inspecting or servicing the engine, wait for the engine to cool before performing any operations.
- During disassembly, carefully arrange removed parts in a clean area to prevent later confusion. Screws, bolts and nuts should be replaced in their original positions to prevent reassembly errors.
- When special tools are required, use genuine KUBOTA tools. Special tools which are not used frequently should be made according to the drawings provided.
- Clean parts before measuring them.
- We recommend the use KUBOTA genuine parts for parts replacement to maintain machine performance and to assure safety.
- Gaskets and O-rings must be replaced during reassembly. Apply grease to new O-rings or oil seals before reassembling. (See the left figure)
- When reassembling external snap rings or internal snap rings, they must be positioned with the sharp edge facing against the direction from which a force is applied. (See the left figure)
- Use detergents for industrial parts to clean the engine parts.

(1) Grease
(2) Force
[A] External Snap Ring
[B] Internal Snap Ring

[4] LUBRICANTS AND FUEL

Place	Capacity	Remarks
Engine crankcase	0.6 ℓ 0.6 U.S.qts. 0.53 Imp.qts.	A.P.I. type, SE / SF class  0617F015
Transmission case (Except -P, -PC, -PCC)	0.1 ℓ 0.1 U.S.qts. 0.09 Imp.qts.	Hypoid gear oil: HD80W or HD90W
Fuel tank	-PCC, -SCC, : 3.5 ℓ -HTC, -HT, 3.7 U.S.qts. -CT 3.1 Imp.qts. Others: 1.5 ℓ 1.6 U.S.qts. 1.32 Imp.qts.	Unleaded gasoline, 87 OCTANE minimum

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[8] MAINTENANCE CHECK LIST

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

Service Interval	Check Points	Reference Page
Each use (Daily)	• Check the fuel level • Check the engine oil level • Check the air cleaner element • Check and clean the grass catcher bag • Retighten the blade mounting screw • Check the mower blade	S-29 S-29 S-31 – S-31 S-33
First month or initial 20 hours	• Change the engine oil	S-33
Every 3 months or 50 hours	• Clean the air cleaner element	S-35
Every 6 months or 100 hours	• Change the engine oil • Clean and readjust the spark plug • Clean the fuel filter • Adjust the throttle lever • Adjust the mower blade clutch lever (Except -P, -T, -TE, -HT, -CT) • Adjust the drive clutch lever (Except -P, -PC, -PCC)	S-35 S-35 S-35 S-37 S-39 S-39
Every year or 300 hours	• Clean the fuel tank • Replace the fuel pipe • Check the valve clearance • Check the mower blade clutch (Except -P, -T, -TE, -HT, -CT) • Lubricate for spline of crankshaft	S-41 S-41 S-41 S-41 S-41

[8] TABLEAU DES PERIODICITES D'ENTRETIEN

Pour maintenir la machine en bon état de fonctionnement et éviter tout accident ou incident, effectuer périodiquement le contrôle et l'entretien. Vérifier les points suivants avant utilisation.

Périodes d'entretion	Points à vérifier	Voir page
Chaque utilisation (Journellement)	• Vérifier le niveau de carburant • Vérifier le niveau d'huile moteur • Vérifier l'élément du filtre à air • Vérifier et nettoyer le sac à herbe • Resserrer les vis de fixation de la lame • Vérifier la lame	S-30 S-30 S-32 – S-32 S-34
Premier mois ou premières 20 heures	• Changer l'huile moteur	S-34
Toutes les 3 mois ou toutes les 50 heures	• Nettoyer l'élément du filtre à air	S-36
Toutes les 6 mois ou toutes les100 heures	• Changer l'huile moteur • Nettoyer et réajuster la bougie d'allumage • Nettoyer le filtre à carburant • Régler le levier d'accélérateur • Régler le levier d'embrayage de la lame (sauf -P, -T, -TE, -HT, -CT) • Régler le levier d'embrayage d'entraînement (sauf -P, -PC, -PCC)	S-36 S-36 S-36 S-38 S-40 S-40
Tous les ans ou toutes les 300 heures	• Nettoyer le réservoir à carburant • Remplacer le tuyau d'alimentation de carburant • Vérifier le jeu des soupapes • Vérifier l'embrayage de la lame (sauf -P, -T, -TE, -HT, -CT) • Graisser la cannelure de l'arbre coudé	S-42 S-42 S-42 S-42 S-42

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SPECIFICATIONS

[Engine]

Machine Model		W5019-P	W5019-PC	W5019-T	W5019-TC	W5019-TE	W5019-TCE
Engine Model		GH150V-L-P2		GH150V-L-T2		GH150V-L-TE2	
Type		Air-cooled, 4-cycle, OHV gasoline engine					
Number of Cylinders		1					
Bore x Stroke		ϕ61 x 50 mm (ϕ2.4 x 2.0 in.)					
Total Displacement		146 cm³ (8.9 cu.in.)					
Maximum Horsepower		3.73 kW / 3600 rpm 5.0 HP / 3600 rpm					
Maximum Torque		9.8 N·m / 2800 rpm 1.0 kgf·m / 2800 rpm 7.2 ft-lbs / 2800 rpm					
Maximum No-load Speed		3150 rpm					
Compression Ratio		8.3					
Cooling System		Forced air cooling					
Lubricating System		Splash type					
Starting System		Recoil starter (With automatic pressure relieving mechanism)				Electric Starter (12V, 0.12 kw)	
Ignition System		Non-contact magneto ignition (Transistor controlled)					
Ignition Timing		0.40 rad. (23°) B.T.D.C.					
Spark Plug		BPR2ES (NGK)					
Carburetor Type		Horizontal type, butterfly valves					
Governor Type		Centrifugal flywheel type					
Air Cleaner		Dry-type paper element					
Battery		—				12V, 2.9 Ah	
Engine Oil	Type	A.P.I. type, SE / SF class					
	Capacity	0.6 ℓ (0.6 U.S.qts. 0.53 Imp.qts.)					
Fuel	Type	Unleaded gasoline, 87 OCTANE minimum					
	Capacity	1.5 ℓ (1.6 U.S.qts. 1.32 Imp.qts.)					
Dry Weight		14.3 kg (31.5 lbs)				15.5 kg (34.2 lbs)	

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AVANT-PROPOS

Ce manuel d'atelier a été préparé pour permettre au personnel d'entretien de disposer d'iinformations sur les mécanismes, les entretiens et la maintenance du KUBOTA tondeuse poussée autotractée W5019 et W5021. Il est divisé en deux sections: "Mécanismes" et "Démontage et entretien".

■ **Mécanismes**

Des informations sur la construction et les fonctions sont données pour chaque partie du tondeuse. Cette partie du manel doit être comprise avant que l'on commence les opérations de recherche des anomalies, de démontage et déentrerien.

■ **Démontage et entretien**

La rubrique "Généralités" comprend les précautions générales, le Incidents de fonctionnement, les listes de caractéristiques d'etaillés et réglage, les vérifications et léentretien et les outils spéciaux. Ainsi que les opérations de vérification et réglage, démontage et remontage et entretien pour les deux tondeuses où sont reprises les précautions, les valeurs de référence et les limites de service.

Toutes les informations, illustrations et spécifications contenues dans ce manuel sont basées sur les dernières informations de production disponibles au moment de la publication. Nous réservons le droit de modifier tout élément de ces informations, à tout moment et sans préavis.

Juin '90

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FÜR DEN LESER

Diese Werkstattanleitung wurde zusammengestellt, um all jenen die mit den KUBOTA Motorrasenmäher W5019 und W5021 arbeiten wichtige Hinweise über Funktion, Betrieb und Wartung zu geben. Sie ist in zwei Abschnitte: "Mechanismus" und "Ausbau und Wartung" eingeteilt.

■ **Mechanismus**

Aufbau und Funktion jedes Mähers werden in diesem Abschnitt dargestellt und erläutert. Bitte lesen Sie diese Informationen sorgfältig druch, bevor Sie mit Fehlersuche, Ausbau und Wartyngsarbeuten beginnen.

■ **Ausbau und Wartung**

Unter der Überschrift "Allgemeines" sind allgemeine Vorsichtsmaßregeln, Störungsbeseitigung, Wartungsdatenlisten, Überprüfungen und Wartungsarbeiten sowie Spezialwerkzeuge aufgeführt. Für beide Mäher sind Überprüfungen und Einstellungen, Zerlegen und Zusammenbauen sowie Wartungsarbeiten angegeben. Jeder Abschnitt behandelt Verfahren, Vorkehrungen, Werkspezifikationen und Zulässiige Toleranzen.

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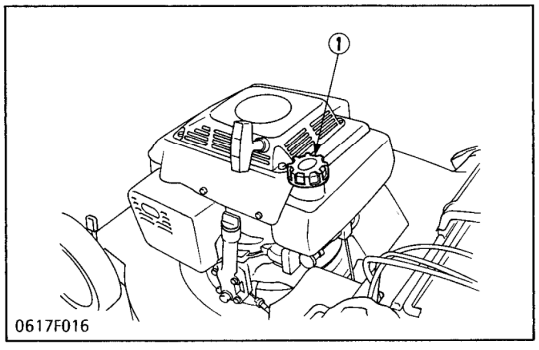
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[9] CHECK AND MAINTENANCE

(1) Check Points of Each Use or Daily



Checking Fuel Level

1. Place the machine on a flat surface (level the engine).
2. To check the fuel level, remove the fuel tank cap (1).
3. Check to see that there is sufficient fuel.
4. If necessary, supply the specified fuel until the proper level is reached.

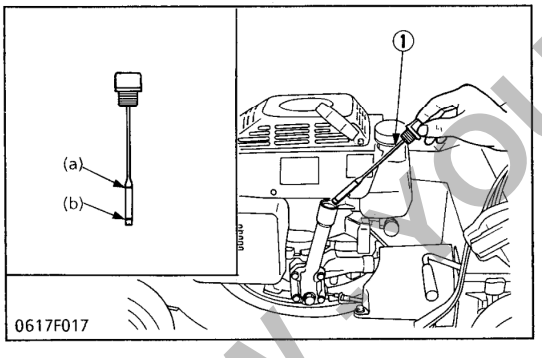
⚠ CAUTION

- **Before refueling, stop the engine and wait until it cools down.**
- **Wipe up any spilt fuel immediately.**

■ IMPORTANT

- **Use the specified fuel.**
  Refer to "LUBRICANTS AND FUEL". (See page S-3)

(1) Tank Cap



Checking Engine Oil Level

1. Place the machine on a flat surface (level the engine).
2. Check the oil level before starting the engine or wait at least 5 minutes after stopping the engine.
3. Unscrew the oil level dipstick (1), wipe it clean, then screw it in again well.
4. Remove the gauge again and check that the oil level is between the upper (a) and lower (b) limits.
5. If the level is too low, supply fresh oil until the specified level is reached.

■ IMPORTANT

- **Use the specified engine oil.**
  Refer to "LUBRICANTS AND FUEL". (See page S-3)
- **When using new oil of a different maker or viscosity from the previous one, drain all used oil. Never mix two different types of oil.**

(1) Oil Level Dipstick
(a) Upper Limit
(b) Lower Limit

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Hauteurs de cames d'admission et d'échappement

1. Mesurer la hauteur de la came à son point le plus haut à l'aide d'un micromètre d'extérieur.
2. Si la mesure est inférieure à la limite de service, remplacer l'arbre à cames.

Hauteurs de cames d'admission et d'échappement	Valeur de référence	27,335 à 27,365 mm
	Limite de service	27,15 mm

Nockenhöhe am Ein- und Auslaß

1. Mit einem Außenmikrometer die Höhe des Nockens an seinem höchsten Punkt messen.
2. Unterschreitet der Meßwert den zulässigen Grenzwert, die Nockenwelle austauschen.

Nockenhöhe am Ein- und Auslaß	Werkdaten	27,335 bis 27,365 mm
	Zulässiger Grenzwert	27,15 mm

Levée de goupille de décompression

1. Mesurer la levée de goupille de décompression (L).
2. Si la mesure est inférieure à la limite de service, remplacer la goupille de décompression.

Levée de goupille de décompression	Valeur de référence	0,52 à 0,92 mm

Dekompressionsstift-Hub

1. Die Dekompressionsstift-Hub (L) messen.
2. Unterschreitet der Meßwert den Werkdaten, die dekompressionsstift austauschen.

Dekompressions-stift-Hub	Werkdaten	0,52 bis 0,92 mm

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