12PB/12PC/12SB 14PB/14PT/14PZ 14SB/14SC/14SX 14SE/14ST/14SZ Walk-Behind Mowers (S.N. GX-010001-)

> John Deere Horicon Works TM1471 (16JUL96)

LITHO IN U.S.A. **ENGLISH**

Introduction

FOREWORD

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.



This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.

Technical manuals are divided in two parts: repair and diagnostics. Repair sections tell how to repair the components. Diagnostic sections help you identify the majority of routine failures quickly.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job and service parts kits.

Section 10, Group 15—Specifications consist of all applicable specifications, near tolerances and specific torque values for various components on each individual engine.

Binders, binder labels, and tab sets can be ordered by John Deere dealers direct from the John Deere Distribution Service Center. This manual is part of a total product support program.

FOS MANUALS—REFERENCE

TECHNICAL MANUALS—MACHINE SERVICE

COMPONENT MANUALS—COMPONENT SERVICE

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.

Technical Manuals are concise guides for specific machines. Technical manuals are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Component Technical Manuals are concise service guides for specific components. Component technical manuals are written as stand-alone manuals covering multiple machine applications.

MX,TM1471,IFC -19-01OCT92

JOHN DEERE DEALERS

This is a complete revision for TM1471, 21-Inch Rear-Discharge Walk-Behind Rotary Mowers (S.N. 010,001-).

Discard old TM1471 dated O1 Oct 92 and replace it with this manual.

New information added to this manual includes:

- 1. Repair and diagnosis information for the new 14SX mower.
- 2. Repair information for Kawasaki (FC150V) 4-cycle engine.
- 3. This book has been divided into two parts; Repair Sections, Sections 10 through 80 (providing remove and install procedures), and Operation and Tests Sections, Sections 210 through 255 (providing theory

of operation, test and adjustment procedures, and diagnostic information).

- 4. Model designation is broken down as follows:
- 1 = Derived from 21-inch cutting width
- 2 = 2-Cycle Engine Design
- 4 = 4-Cycle Engine Design
- B = Blade Brake Clutch (BBC)
- C = Commercial Mower
- E = Electric Start
- P = Push Mower
- S = Self-Propelled Mower (2 or 5 speed transaxle)
- T = Tri-Cycler Mower
- Z = Zone Start (from Operator's station or ZONE) with flywheel band brake
- 5. The new 1995 K-Series and B-Series 4-Cycle Engines are classified as 5.5-HP engines.

MX,DPS,TM1471 -19-16JUL96

TM1471 (16JUL96) 21" RDWB MOWER

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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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HANDLE FLUIDS SAFELY—AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



DX,FLAME

-19-04JUN90

PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).

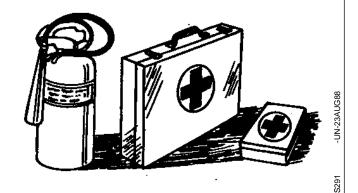


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

- 1. Filling batteries in a well-ventilated area.
- 2. Wearing eye protection and rubber gloves.
- 3. Avoiding breathing fumes when electrolyte is added.
- 4. Avoiding spilling or dripping electrolyte.
- 5. Use proper jump start procedure.

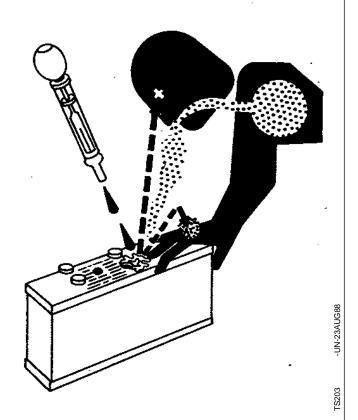
If you spill acid on yourself:

- 1. Flush your skin with water.
- 2. Apply baking soda or lime to help neutralize the acid.
- 3. Flush your eyes with water for 15-30 minutes. Get medical attention immediately.

If acid is swallowed:

TM1471 (16JUL96)

- 1. Do not induce vomiting.
- 2. Drink large amounts of water or milk, but do not exceed 2 L (2 quarts).
- 3. Get medical attention immediately.



DX.POISON

-19-21APR93

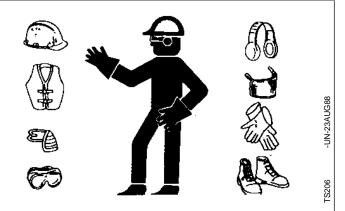
WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



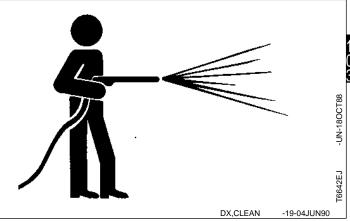
-19-10SEP90

21" RDWB MOWER

WORK IN CLEAN AREA

Before starting a job:

- Clean work area and machine.
- Make sure you have all necessary tools to do your job.
- Have the right parts on hand.
- Read all instructions thoroughly; do not attempt shortcuts.



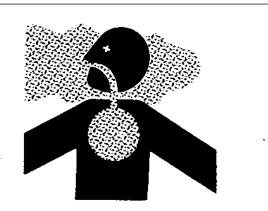
WORK IN VENTILATED AREA

WARNING

California Proposition 65 Warning: Gasoline engine exhaust from this product contains chemicals known to to State of California to cause cancer, birth defects, or other reproductive harm.

Engine exhaust fumes can cause sickness or death, If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



MX,AIR

-19-16JUL96

ILLUMINATE WORK AREA SAFELY

Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.

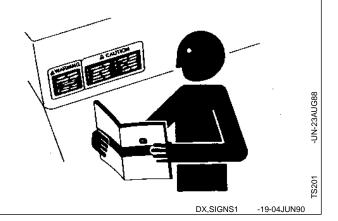


DX,LIGHT

19-04JUN90

REPLACE SAFETY SIGNS

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.



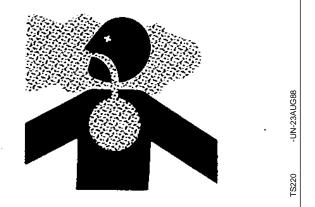
AVOID HARMFUL ASBESTOS DUST

Avoid breathing dust that may be generated when handling components containing asbestos fibers. Inhaled asbestos fibers may cause lung cancer.

Components in products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates, and some gaskets. The asbestos used in these components is usually found in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust containing asbestos is not generated.

Avoid creating dust. Never use compressed air for cleaning. Avoid brushing or grinding material containing asbestos. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, apply a mist of oil or water on the material containing asbestos.

Keep bystanders away from the area.



DX,DUST -19-15MAR91

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only service parts meeting John Deere specifications.



DX,REPAIR -19-04JUN90

DISPOSE OF WASTE PROPERLY

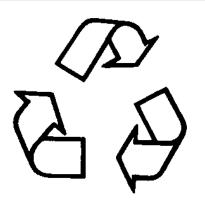
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



X,DRAIN -19-03MAR9

LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.



-19-0

DX,LIVE

-19-25SEP92

MACHINE SPECIFICATIONS—12PB, 12PC, AND 12SB

MODEL	12PB	12PC	12SB
Engine:			
Type		Briggs & Stratton	Briggs & Stratton
Series	2-Cycle Design	2-Cycle Design 96722 I/C	2-Cycle Design 96722 I/C
Horsepower—	30722 1/0	30722 170	30722 170
Early Models	3.0 kW (4 hp)	3.0 kW (4 hp)	3.0 kW (4 hp)
1991 Models		3.7 kW (5 hp)	3.7 kW (5 hp)
Displacement		141 cm ³	141 cm ³
Bore x Stroke	(8.60 cu. in.)	(8.60 cu. in.)	(8.60 cu. in.)
Bore x Stroke	(2.34 x 1.95 in.)	60 x 50 mm (2.34 x 1.95 in.)	60 x 50 mm (2.34 x 1.95 in.)
Idle Speed		1750 ±200 rpm	1750 ±200 rpm
Operation Range		3100 ±100 rpm	3100 ±200 rpm
Starting		Recoil	Recoil
Ignition	MAGNETRON®	MAGNETRON®	MAGNETRON®
Governor	, ,	Mechanical Flyweight	Mechanical Flyweight
Carburetor		Float Type With	Float Type With
Air Cleaner	Fixed Main Jet	Fixed Main Jet	Fixed Main Jet
Lubrication	<u> </u>	Dual Stage 50:1 Fuel/Oil Mix	Dual Stage 50:1 Fuel/Oil Mix
Lubrication	30.1 1 del/Oil Wilx	30.1 1 del/Oil Wilx	30.1 1 del/Oli IVIIX
Power Train:			
Туре	Push	Push	5-Speed Transaxle
Travel Speeds	N/A	N/A	1st.—1.9 kph (1.2 mph)
			2nd.—2.9 kph (1.8 mph)
			3rd.—3.9 kph (2.4 mph) 4th.—4.8 kph (3.0 mph)
			5th.—6.6 kph (4.1 mph)
Capacities:			от три (п. три)
Fuel/Oil Tank	1.9 L (2 qt)	1.9 L (2 qt)	1.9 L (2 qt)
Transaxle	N/A	N/A	70 g (2.5 oz)
			John Deere Non-Clay,
			High-Temperature
			EP Grease®—JDM J13E4, NLGI Grade 2
			(North America)
			or
			GREASE-GARD™—
			JDM J13E4,
			NLG1 Grade 2 (Europe)

MACHINE SPECIFICATIONS—14PB, 14PT, 14PZ AND 14SB

MODEL	14PB	14PT	14PZ	14SB
Engine:				
Туре		Kawasaki	Briggs & Stratton	Kawasaki
Series	4-Cycle Design FC150V	4-Cycle Design FC150V	4-Cycle Design 122700	4-Cycle Design FC150V
Horsepower—	. 1 0 100 0	101001	122100	7 0 100 7
	3.4 kW (4.5 hp)	N/A	3.0 kW (4.0 hp)	3.4 kW (4.5 hp)
1991 Models . 1993 Models .	. 3.7 kW (5.0 hp) N/A	N/A 3.7 kW (5.0 hp)	3.7 kW (5.0 hp) N/A	3.7 kW (5.0 hp) N/A
	4.1 kW (5.5 hp)	4.1 kW (5.5 hp)	3.7 kW (5.0 hp)	4.1 kW (5.5 hp)
Displacement		153 cm ³	190 cm ³	153 cm ³
Bore x Stroke	(9.34 cu. in.)	(9.34 cu. in.) 65 x 46 mm	(11.57 cu. in.) 68 x 51.8 mm	(9.34 cu. in.) 65 x 46 mm
Boro X Guoko	(2.56 x 1.81 in.)	(2.56 x 1.81 in.)	(2.64 x 2.04 in.)	(2.56 x 1.81 in.)
Idle Speed		1500 ±200 rpm	1750 ±200 rpm	1500 ±200 rpm
Operation Range Starting		3075 ±75 rpm Recoil (Zone Start)	3000 ±100 rpm Recoil (Zone Start)	3075 ±75 rpm Recoil
_	Flywheel Magneto	Flywheel Magneto	MAGNETRON®	Flywheel Magneto
Governor		Mechanical	Mechanical	Mechanical
Carburetor	Flyweight Float Type With	Flyweight Float Type With	Flyweight Float Type With	Flyweight Float Type With
	Fixed Main Jet	Fixed Main Jet	Fixed Main Jet	Fixed Main Jet
Air Cleaner	Dual Stage w/ Mechanical	Dual Stage w/ Mechanical	Dual Stage	Dual Stage w/ Mechanical
	Pre-Cleaner	Pre-Cleaner		Wriviechanical Pre-Cleaner
Lubrication	Pressure	Splash Lube	Splash Lube	Pressure
	(Optional Oil Filter Kit)			(Optional Oil Filter Kit)
	i iitei Kit)			i iitei Kitj
Power Train:				
Type		Push N/A	Push N/A	5-Speed Transaxle 1st.—1.9 kph (1.2 mph)
Traver opecus	. 14/7	N/A	IN/A	2nd.—2.9 kph (1.8 mph)
				3rd.—3.9 kph (2.4 mph)
				4th.—4.8 kph (3.0 mph) 5th.—6.6 kph (4.1 mph)
				our old that taken)
Capacities:	4.2.1. (4.4. ~+)	4.2.1. (4.4.~4)	4 4 1 (4 5 ~4)	4.0.1. /4.4 ~4\
Fuel Tank		1.3 L (1.4 qt) 0.60 L (1.25 pt)	1.4 L (1.5 qt) 0.60 L (1.25 pt)	1.3 L (1.4 qt) 0.60 L (1.25 pt)
	(without filter)	,	, , ,	(without filter)
Transaxle	N/A	N/A	N/A	70 g (2.5 oz)
				John Deere Non-Clay, High-Temperature
				EP Grease®—
				JDM J13E4, NLGI Grade 2
				(North America)
				or Occasion Occasion
				Grease-Gard™— JDM J13E4,
				NLGI Grade 2 (Europe)
				MX,1010BV,2 -19-16JUL96

MACHINE SPECIFICATIONS—14SC/14SX, 14SE, AND 14ST

MODEL Engine:	14SC/14SX	14SE	14ST
Туре	4-Cycle Design	Kawasaki 4-Cycle Design	Kawasaki 4-Cycle Design
Series Horsepower—		FC150V	FC150V
Early Models	. 3.7 kW (5.0 hp) . N/A . 4.1 kW (5.5 hp) . 153 cm ³ (9.34 cu. in.)	3.4 kW (4.5 hp) 3.7 kW (5.0 hp) N/A 4.1 kW (5.5 hp) 153 cm ³ (9.34 cu. in.) 65 x 46 mm	N/A N/A 3.7 kW (5.0 hp) 4.1 kW (5.5 hp) 153 cm ³ (9.34 cu. in.) 65 x 46 mm
Idle Speed Operation Range .	(2.56 x 1.81 in.) 1500 ±200 rpm 3075 ±75 rpm Recoil (Zone Start) Flywheel Magneto	(2.56 x 1.81 in.) 1500 ±200 rpm 3075 ±75 rpm Electric (Key Start) Flywheel Magneto Mechanical Flyweight	(2.56 x 1.81 in.) 1500 ±200 rpm 3075 ±75 rpm Recoil (Zone Start) Flywheel Magneto Mechanical Flyweight
Carburetor	. Float Type With Fixed Main Jet	Float Type With Fixed Main Jet Dual Stage w/Mechanical Pre-Cleaner	Float Type With Fixed Main Jet Dual Stage w/Mechanical Pre-Cleaner
Lubrication		Pressure (Optional Oil Filter Kit)	Splash Lube
Power Train:	E Chand Transpula	E Chand Transpula	2 Chard Transpula
Type	1st.—1.9 kph (1.2 mph) 2nd.—2.9 kph (1.8 mph) 3rd.—3.9 kph (2.4 mph) 4th.—4.8 kph (3.0 mph) 5th.—6.6 kph (4.1 mph)	5-Speed Transaxle 1st.—1.9 kph (1.2 mph) 2nd.—2.9 kph (1.8 mph) 3rd.—3.9 kph (2.4 mph) 4th.—4.8 kph (3.0 mph) 5th.—6.6 kph (4.1 mph)	2-Speed Transaxle 1st.—3.2 kph (2.0 mph) 2nd.—5.3 kph (3.3 mph)
Capacities: Fuel Tank		1.3 L (1.4 qt.) 0.6 L (1.25 pt)	1.3 L (1.4 qt.) 0.6 L (1.25 pt)
Transaxle	(Without Filter)	(Without Filter) 70 g (2.5 oz.) John Deere Non-Clay High-Temperature EP Grease®—JDM J12E4, NLGI Grade 2 (North America) or GREASE-GARD™— JDM J13E4, NLGI Grade 2 (Europe)	70 g (2.5 oz.) John Deere Non-Clay High-Temperature EP Grease®—JDM J13E4, NLGI Grade 2 (North America) or GREASE-GARD TM — JDM J13E4, NLGI Grade 2 (Europe)

MACHINE SPECIFICATIONS—14SZ

MODEL	14SZ	14SZ
Engine: Type	. Briggs & Stratton 4-Cycle Design	Briggs & Stratton 4-Cycle Design
Series Horsepower—		124700
Early Models 1991 Models 1993 Models	. 3.7 kW (5.0 hp)	N/A N/A N/A
1995 Models Displacement	. 3.7 kW (5.0 hp) . 183 cm ³	3.7 kW (5.0 hp) 189 cm ³
Bore x Stroke	(2.64 x 2.04 in)	(11.59 cu. in.) 68.3 x 51.8 mm (2.69 x 2.04 in.)
Idle Speed Operation Range .		1750 ±200 rpm 3000 ±100 rpm Recoil (Zone Start)
Ignition	. MAGNETRON®	MAGNETRON® Mechanical
Carburetor	Flyweight . Float Type With Fixed Main Jet	Flyweight Float Type With Fixed Main Jet
Air Cleaner Lubrication	. Dual Stage	Dual Stage Splash Lube
Power Train:		
Type Travel Speeds	. 2-Speed Transaxle . 1st.—3.2 kph (2.0 mph) 2nd.—5.3 kph (3.3 mph)	2-Speed Transaxle 1st.—3.2 kph (2.0 mph) 2nd.—5.3 kph (3.3 mph)
Capacities: Fuel Tank		1.4 L (1.5 qt)
Crankcase Transaxle		0.6 L (1.25 pt) 70 g (2.5 oz.) John Deere Non-Clay High-Temperature EP Grease®—JDM J12E4, NLGI Grade 2
	(North America) or GREASE-GARD™—	(North America) or GREASE-GARD™—
	JDM J13E4, NLGI Grade 2 (Europe)	JDM J13E4, NLGI Grade 2 (Europe)

MX,1010BV,2B -19-16JUL96

General Specifications/Mower deck specifications

MOWER DECK SPECIFICATIONS Cutting Width	533 mm (21 in.)
Cutting Height Range	0 mm (1/2 to 3-1/2 in.)
Number of Cutting Heights in 13 mm (1/2 in.) increments	7
Wheel Diameter	200 mm (8 in.)
Bagger Capacity	3.1 cu ft (2.5 bu)
(Specifications and design subject to change without notice.)	MX.1010BV.5 -19-16JUL96

REPAIR SPECIFICATIONS—BRIGGS & STRATTON 2-CYCLE ENGINE (12PB/12PC/12SB)

Item Specification
Inspection Specifications:
Piston Rings Inspection Depth (In Cylinder Bore)
Maximum Piston Rings End Gap
Minimum Piston Skirt O.D
Minimum Piston Pin O.D
Maximum Piston Pin Bore I.D
Maximum Cylinder Bore I.D
Minimum Crankshaft Main Bearing Journals O.D
Maximum Crankshaft Journals Out-Of-Round
Maximum Connecting Rod End Bore I.D
Minimum BBC Brake Pad Thickness
Ignition Coil Air Gap
Spark Plug Gap
Engine Drive Sheave Installation (From End Of Crankshaft To Bottom Of Sheave) 38 mm (1.5 in.)
Torque Specifications:
Crankcase Cap Screws
Cylinder Head Socket Cap Screws [In Increments of 4 N·m (35 lb-in.)]
Flywheel Nut
Muffler Cap Screws
Engine Drive Sheave Set Screw
Engine Mount Cap Screws
Blade Mount Cap Screw(s)
BBC Socket Head Cap Screw
Spark Plug
Recoil Start Retainer Cap Screw
Recoil Start Assembly Cap Screws
Recoil Start Cup To Flywheel Screen Cap Screws 7 N·m (62 lb-in.)
Recoil Start Cover Cap Screws
Ignition Coil Cap Screws
Governor Lever Cap Screw and Nut
Carburetor Spacer Mounting Cap Screws
Carburetor/Air Filter Nuts
Engine Shroud Cap Screws
Fuel Tank/Engine Cover Cap Screws

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REPAIR SPECIFICATIONS—BRIGGS & STRATTON 4-CYCLE ENGINE (14PZ/14SZ)

Item	Specification
Inspection Specifications:	
Piston Rings Inspection Depth (In Cylinder Bore)	
Maximum Piston Compression Rings End Gap	
Maximum Piston Oil Ring End Gap	
Maximum Piston Rings Side Clearance	
Minimum Piston Skirt O.D.	
Minimum Piston Pin O.D	12.42 mm (0.489 in.)
Maximum Piston Pin Bore I.D	12.47 mm (0.491 in.)
Maximum Piston Pin Bearing I.D	12.50 mm (0.492)
Maximum Standard Cylinder Bore I.D	68.288 mm (2.6885 in.)
Maximum Cylinder Bore Out-Of-Round	0.0635 mm (0.0025 in.)
Maximum Cylinder Bore Allowable Wear	Oversized—0.076 mm (0.003 in.)
Minimum Crankshaft Main Bearing Journal O.D. (Flywheel End)	22.17 mm (0.873 in.)
Minimum Crankshaft Main Bearing Journal O.D. (Output End)	26.92 mm (1.060 in.)
Minimum Crankshaft Connecting Rod Journal O.D	25.30 mm (0.996 in.)
Maximum Crankshaft Main Bearings I.D	
Maximum Crankshaft Runout (TIR)	
Allowable Crankshaft End Play	
Minimum Camshaft Journals O.D	
Maximum Camshaft Bearings O.D	
Maximum Crankcase Bearing I.D. (Cylinder Half)	
Maximum Crankcase Bearing I.D. (Cover Half)	
Crankcase Gasket Thickness (New)	
Intake Valve Clearance	
Exhaust Valve Clearance	,
Maximum Valve Guide I.D.	,
Minimum Intake Valve Face Margin	
Minimum Exhaust Valve Face Margin	
Valve Seats Surface	,
Intake Valve Seat Angle	
Exhaust Valve Seat Angle	
Intake Valve Face Angle	
Exhaust Valve Face Angle	
Valves Narrowing Angle	
Maximum Breather Disc Valve Clearance	
Ignition Coil Air Gap	,
Spark Plug Gap	
Engine Drive Sheave Installation (From End Of Crankshaft To Bottom Of S	Sheave) 38 mm (1.5 in.)

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REPAIR SPECIFICATIONS—BRIGGS & STRATTON 4-CYCLE ENGINE (14PZ/14SZ)—(CONTINUED)

Item Specification Torque Specifications: Cylinder Head Socket Cap Screws [In Increments of 4 N·m (35 lb-in.)] 16 N·m (140 lb-in.) MX,1015BV,2A -19-01OCT92

REPAIR SPECIFICATIONS—KAWASAKI 4-CYCLE ENGINE (14PB/14PT/14SB/14SC/14SX/14SE/14ST)

Item Specification Inspection Specifications: Maximum Piston Rings Side Clearance 0.10 mm (0.004 in.) Minimum Piston Skirt O.D. 64.90 mm (2.555 in.)

REPAIR SPECIFICATIONS—KAWASAKI 4-CYCLE ENGINE (14PB/14PT/14SB/14SC/14SX/14SE/14ST)—(CONTINUED)

Item Specification
Inspection Specifications:
Maximum Breather Air Gap
Minimum Flywheel Screen Gap
Minimum Oil Pump Rotor Shaft O.D
Maximum Oil Pump Rotor Shaft Bearing I.D
Minimum Oil Pump Outer Rotor Thickness
Maximum Oil Pump Outer Rotor Bore Depth 12.10 mm (0.476 in.)
Minimum Oil Pump Outer Rotor O.D
Maximum Oil Pump Outer Rotor Bearing I.D
Minimum Oil Pump Valve Spring Free Length
(Engine S.N. 047346—072217)
(Engine S.N. 072218—)
Ignition Coil Air Gap
Torque Specifications:
Crankcase Cover Cap Screw Torque 7 N·m (62 lb-in.)
Crankcase Cover Drain Plug Torque
Connecting Rod End-Cap Screw Torque
Flywheel Nut Torque
Rocker Arm Stud and Nut Torque
Cylinder Head Cap Screw Torque (In Sequence)
Înitial Torque
Final Torque
Spark Torque
Governor Arm Nut Torque
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REPAIR SPECIFICATIONS—KANSAKI 2-AND 5-SPEED TRANSAXLES

Item Specification

Transaxle Drive Sheave Lock Nut	34 N·m (25 lb-ft)
Transaxle Case Cap Screws	10 N·m (89 lb-in.)
Internal Bearing Anchor Cap Screw	10 N·m (89 lb-in.)

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REPAIR SPECIFICATIONS—WHEEL CAP SCREWS

Item Specification

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