

INTRODUCTION

This supplement covers the construction, function, and servicing procedures of the Honda HRJ216K3 lawn mower.

For service information that is not covered in this supplement, please refer to the base shop manual (part number 62VK300) and supplements (part number 62VK300Y, 62VK300Z).

All information contained in this manual is based on the latest product information available at the time of printing. We reserve the right to make changes at anytime without notice.

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As you read this manual, you will find information that is preceded by a **NOTICE** symbol. The purpose of this message is to help prevent damage to this Honda product, other property, or the environment.

SAFETY MESSAGES

Your safety and the safety of others are very important. To help you make informed decisions, we have provided safety messages and other safety information throughout this manual. Of course, it is not practical or possible to warn you about all the hazards associated with servicing these products. You must use your own good judgement.

You will find important safety information in a variety of forms, including:

- Safety Labels – on the product.
- Safety Messages – preceded by a safety alert symbol

⚠ and one of three signal words, DANGER, WARNING, or CAUTION.

These signal words mean:

⚠ DANGER You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.

⚠ WARNING You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.


⚠ CAUTION You CAN be HURT if you don't follow instructions.

- Instructions – how to service these products correctly and safely.

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SERVICE PUBLICATION OFFICE

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 The marked sections contain no changes. They are not covered in this supplement.

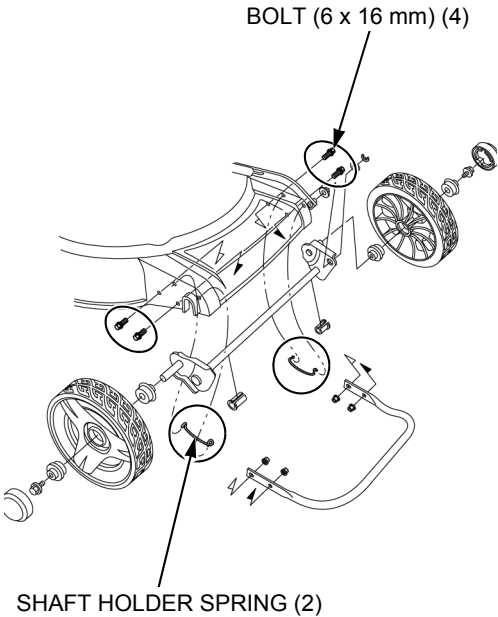
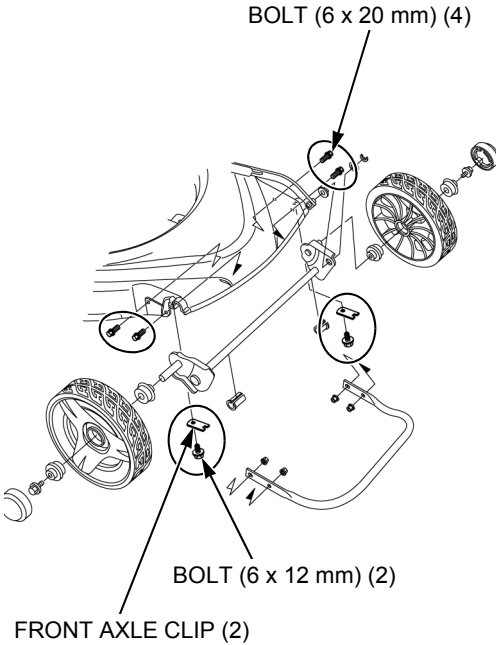
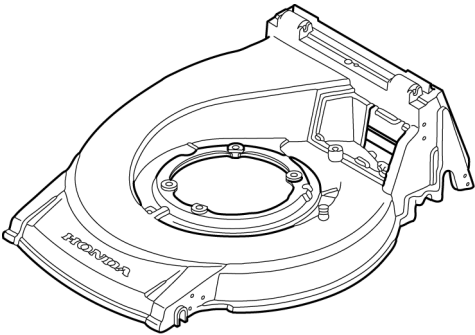
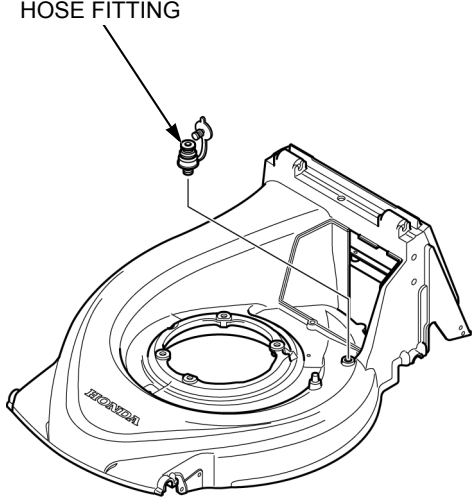
How to use this manual

SYMBOLS

The symbols used throughout this manual show specific service procedures. If supplementary information is required pertaining to these symbols, it will be explained specifically in the text without the use of the symbols.

	Replace the part(s) with new one(s) before assembly.
	Use the recommend engine oil, unless otherwise specified.
	Use molybdenum oil solution (mixture of the engine oil and molybdenum grease in a ratio of 1:1).
	Use multi-purpose grease (lithium based multi-purpose grease NLGI #2 or equivalent).
	Use marine grease (water resistant urea based grease).
	Apply a locking agent. Use a medium strength locking agent unless otherwise specified.
	Apply sealant.
	Use automatic transmission fluid.
(O x O) (O)	Indicates the diameter, length, and quantity of metric bolts used.
page 1-1	Indicates the reference page.

OUTLINE OF CHANGES

Item	Before modification	After modification
SHAFT HOLDER SPRING /FRONT AXLE CLIP	 <p>BOLT (6 x 16 mm) (4)</p> <p>SHAFT HOLDER SPRING (2)</p>	 <p>BOLT (6 x 20 mm) (4)</p> <p>BOLT (6 x 12 mm) (2)</p> <p>FRONT AXLE CLIP (2)</p>
HOUSING CUTTER /HOSE FITTING	 <p>HONDA</p>	 <p>HOSE FITTING</p> <p>HONDA</p>

MEMO

1. SPECIFICATIONS

SPECIFICATIONS 1-2

SPECIFICATIONS

SPECIFICATIONS

DIMENSIONS AND WEIGHTS

Model	HRJ216K3					
Description code	MACC					
Type	TDHH	TDNH	TWHX	TWHH	TWNH	TWWH
Overall length	1,740 mm (68.5 in)					
Overall width	570 mm (22.4 in)					
Overall height*	1,015 mm (40.0 in)					
Dry weight	46 kg (101 lbs)			49 kg (108 lbs)		
Operating weight	48 kg (106 lbs)			51 kg (112 lbs)		
Wheel tread	Front	470 mm (18.5 in)				
	Rear	500 mm (19.7 in)				
Wheel base	625 mm (24.6 in)					

*: Overall height and wheel base are measured with cutting height set at 28 mm (1.1 in) [third position from the bottom].

MOWER

Model	HRJ216K3					
Description code	MACC					
Type	TDHH	TDNH	TWHX	TWHH	TWNH	TWWH
Cutting width	530 mm (20.9 in)					
Cutting height	11 stages [16 - 76 mm (0.6 - 3.0 in)]					
Wheel diameter	200 mm (7.9 in)					
Blade	Thickness	2.0 mm (0.08 in)				
	Lift	26 mm (1.0 in)				
Mower speed	First gear	0.8 m (2.6 ft)/sec.				
	Second gear	1.1 m (3.6 ft)/sec.				
	Third gear	1.4 m (4.6 ft)/sec.				
Transmission oil	Hypoid gear oil, SAE #90					
Transmission oil capacity	0.20 Liters (0.21 US qt, 0.18 Imp qt)					
Operation mode	Discharge			Discharge/bag		
Grass bag capacity	-			70 Liters (2.5 cu-ft)		

ENGINE

Model	GXV160H2
Description code	GJAAH
Type	4 stroke, overhead valve, single cylinder
Displacement	163.0 cm ³ (9.9cu-in)
Bore x stroke	68.0 x 45.0 mm (2.68 x 1.77 in)
Continuous rated power	2.0 kW (2.7 PS)/3,000 min ⁻¹ (rpm)
Net power (SAE J1349)*	TDHH/TDNH types: 3.2 kW (4.4 PS)/3,600 min ⁻¹ (rpm) TWHX/TWHH/TWNH/TWWH types: 2.7 kW (3.7 PS)/3,000 min ⁻¹ (rpm)
Maximum net torque (SAE J1349)*	TDHH/TDNH types: 9.6 N·m (0.98 kgf·m, 7.1 lbf·ft)/2,500 min ⁻¹ (rpm) TWHX/TWHH/TWNH/TWWH types: 9.0 N·m (0.92 kgf·m, 6.7 lbf·ft)/2,500 min ⁻¹ (rpm)
Compression ratio	8.0 ± 0.2
Fuel consumption (At continuous rated power)	1.1 Liters (0.29 US gal, 0.24 Imp gal)/h
Cooling system	Forced air
Ignition system	Transistorized magneto ignition
Ignition timing	B.T.D.C. 20 ± 3°
Spark plug	BPR5ES (NGK), W16EPR-U (DENSO)
Carburetor	Horizontal type, butterfly valve
Air cleaner	Dual element type
Governor	Mechanical centrifugal
Lubrication system	Forced splash
Engine oil capacity	0.65 Liters (0.69 US qt, 0.53 Imp qt)
Starting system	Recoil starter
Stopping system	Ignition primary circuit ground
Breather system	PCV (Positive crankcase ventilation), flat valve type
Fuel used	Unleaded gasoline with a pump octane rating 86 or higher
Fuel tank capacity	1.5 Liters (0.40 US gal, 0.33 Imp gal)

*: The power rating of the engine indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3,600 rpm (Engine Net Power) and at 2,500 rpm (Engine Max. Net Torque). Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

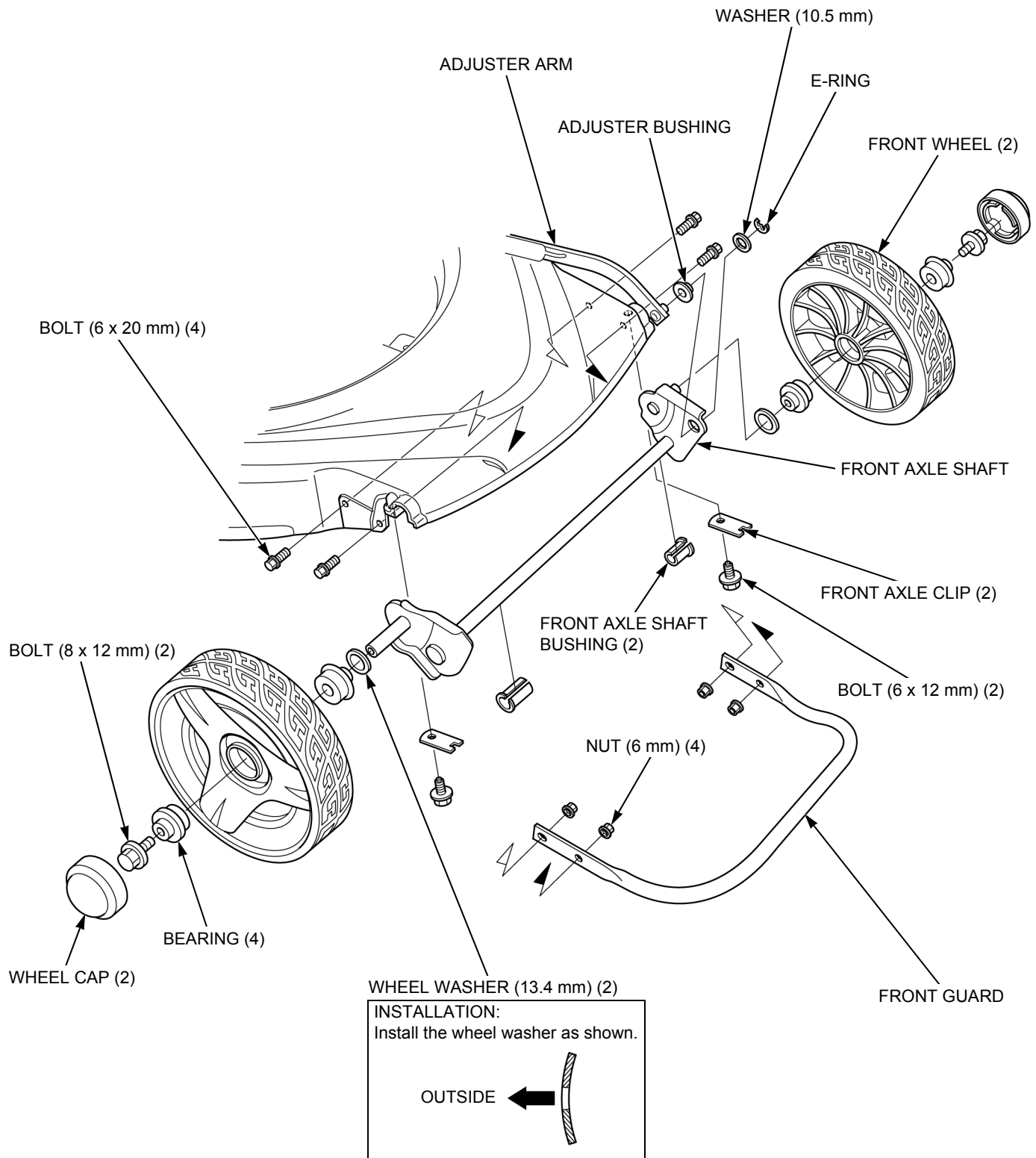
MEMO

13. FRONT WHEELS/REAR WHEELS

FRONT WHEELS
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FRONT WHEELS/REAR WHEELS

FRONT WHEELS
DISASSEMBLY/ASSEMBLY

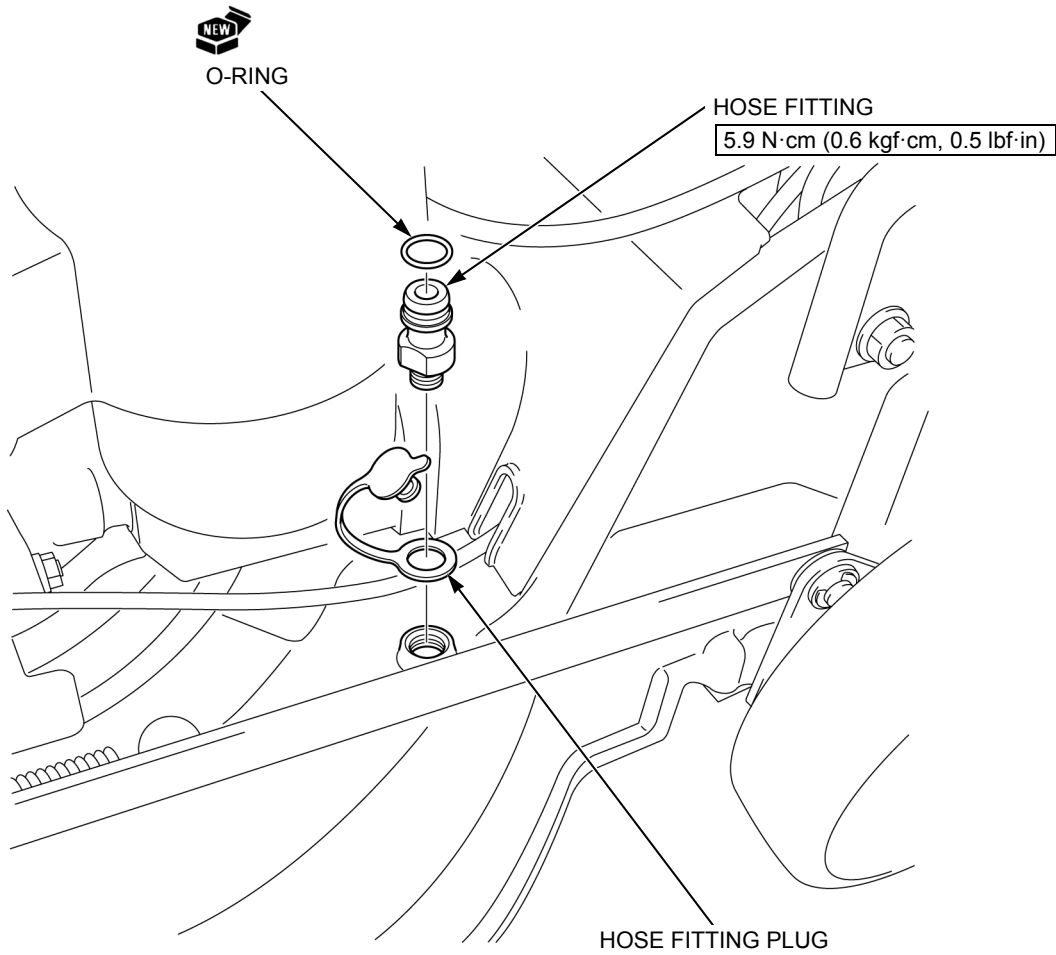


14. CUTTER HOUSING

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CUTTER HOUSING

HOSE FITTING REMOVAL/INSTALLATION



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HOSE FITTING REMOVAL/INSTALLATION 14-2

SPECIFICATIONS 1-2
