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**CHAPTER 1 GENERAL INFORMATION**



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3-2 Specifications

The specifications are subject to change without notice.

Tractor models		2-32		FB 37	
		2WD	4WD	2WD	4WD
<b>Dimensions [cm (in.)]</b>					
Overall length (from bumper to lower link end)		321 (126.4)			
Overall width (with 59.0 in/150 cm rear wheel tread)		181.5 (71.46)			
Overall height (to muffler top)		200 (78.7)			
Wheel base		180 (70.9)			
Wheel tread	Front	115-155 (45.3-61.0)	121 (47.6)	115-155 (45.3-61.0)	121 (47.6)
	Rear	114-150 (44.9-59.1)			
Minimum ground clearance		36 (14.2)			
Minimum turning radius	with a brake	266 (105)			
	without brakes	335 (132)			
Weight [kg (lb)]		1325 (2921)	1430 (3153)	1325 (2921)	1430 (3153)
<b>Engine</b>					
Model		4FA1		4FB1	
Type		Water-cooled, 4-cycle diesel			
Number of cylinders		4			
Horsepower (rpm)		32 (2600)		37 (2600)	
Torque (kg-m/rpm) (ft-lb)		9.5/1400 (68.7)		11/1500 (79.6)	
Displacement [cc(cu.in.)]		1487 (90.71)		1817 (110.8)	
Bore x Stroke [mm (in.)]		76x82 (2.99x3.23)		84x82 (3.31x3.23)	
Lubrication system		Forced-circulation			
Cooling system		Water-cooled, forced-circulation			
Air-cleaner		Dry, cyclone cylinder			
Fuel		Diesel fuel (JIS 2 or 3)			
Starting method		Starter motor with glow plugs			
Battery		AABM/BCI (Gys λ6-27T 12V			
<b>Chassis</b>					
Clutch	Main clutch	Dry, single disc with diaphragm spring			
	PTO clutch	Multi-disc, hydraulic			
Transmission		Synchromesh			
Brakes		Single system, multi-disc, independent			
Differential		4-pinion, bevel gear type with dif-lock			
Steering system		Integral type power-assisted			
Tire sizes	Front	600-16 (6PR)	8-18 (4PR)	600-16 (6PR)	8-18 (4PR)
	Rear	12.4-28 (low lug)			
Front axle	Center-pin, Lemoine	Center pin, reverse Eliot	Center pin, Lemoine	Center pin, reverse Eliot	
Rear axle		Central axle			
<b>Implement lift</b>					
Operation		Hydraulic			
Mounting method		3-point linkage			
Towing method		Trailer hitch			
3-point hitch category		CATEGORY I			
Self-control system		Position and draft control systems			

## CHAPTER 2 DISASSEMBLY BY MAJOR FUNCTIONAL BLOCKS

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— Cover cushion

Apply an adhesive (Contact Cement) to the place where the cover cushion is to be installed and then install the cover cushion as shown in Fig. 26.

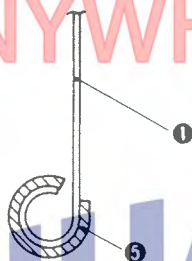


Fig. 26

e) The rear part of the hood can be reinstalled as shown in Fig. 27. Here the cushion rubber (R) should be tightened securely with the lock nut so that it is 0.16 in. (4 mm) in height.



- (1) Hood
- (2) Cushion rubber (R)
- (3) Washer (9 x 24 x 1.6)
- (4) Nut
- (5) Steering post

Fig. 27

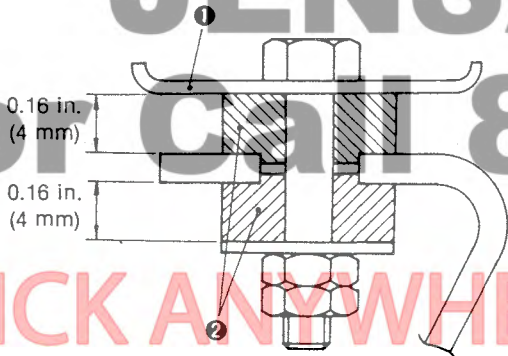


Fig. 28

f) Clamps of the wire harnesses should be reinstalled in their original positions.

*Note: A clamped wire harness should have adequate slack and should never be pinched by the screws which tighten the clamp.*

g) Install the engine shut off wire through the hole in the engine cover and connect to the engine.



Fig. 29

h) Adjust the toe-in. Refer to Chapter 10, "FRONT AXLE," for a detailed explanation.

i) Fill the power steering fluid up to the specified level. Then start the engine and bleed the system. After the air bleeding, check the fluid level and restore it to the proper level if necessary. As concerns the air bleeding procedure, refer to Chapter VIII, "STEERING SYSTEM."

j) Allow the engine to run for a few minutes and then inspect for coolant leaks. Check the coolant level and refill if necessary.

### 3-4 SEPARATION OF THE AXLE BRACKET AND THE ENGINE

After the operations mentioned under a) and b) of 1) DISASSEMBLY in section 3-2 have been performed, follow all of the operations of section 3-3.

As concerns reassembly, also refer to the reassembly instructions in the paragraphs mentioned above.

### 3-5 SEPARATION OF THE ENGINE AND THE FRONT TRANSMISSION

For the 4WD version, perform the operations of 1) DISASSEMBLY in section 3-2 and then proceed with the following instructions.

# CHAPTER 3 ENGINE AND ENGINE ACCESSORIES

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4) Remove the impeller (1-e) and the bearing unit.

*Notes: As the impeller and the fan center are casted parts, take care not to generate shocks when striking them with a hammer.*

(3) Inspection

1) Inspection of the bearing unit

Inspect the bearing unit for wear and damage. Try to turn it and listen to tell if it is turning smoothly and noiselessly. If it is found to be defective, replace it.

Measure the radial play of the bearing unit. If the measured value is in excess of the usable limit, replace it.

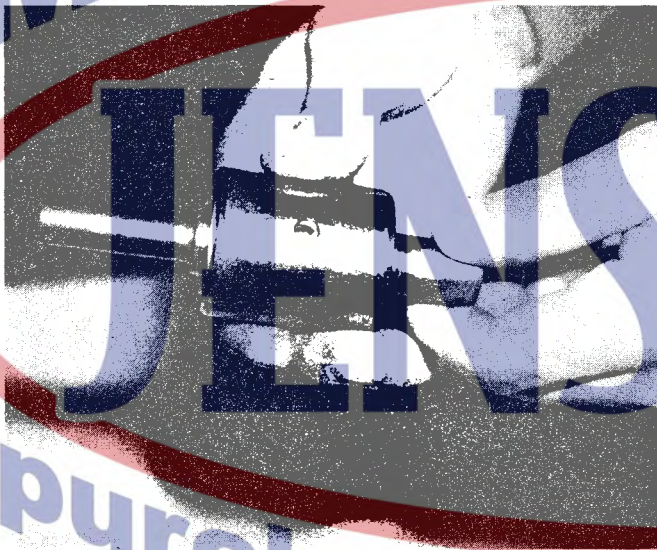


Fig. 152

Radial play of the bearing unit	Usable limit
	0.008 in. (0.2 mm)

2) Inspection of the impeller and the shaft

Inspect the impeller and the shaft for damage, wear, or bend. If the units are found to be seriously damaged, replace them. Pay special attention to abrasion of the impeller and worn or damaged surface contact points with the seal assembly. Check the part of the shaft which fits with the fan center for damage and loose fitting. If the fit is loose, replace both units.

(4) Reassembly

Reassemble in reverse order of disassembly, paying attention to the following points.



Fig. 153

- 1) Apply an adhesive (WHITE BOND No. 1215) to the outer circumference of the seal assembly and press it in. A used seal assembly should be discarded and a new seal assembly should be installed when re-assembling the water pump.
- 2) When pressing the impeller into the pump body, the clearance between the impeller and the body should be within the specified range.

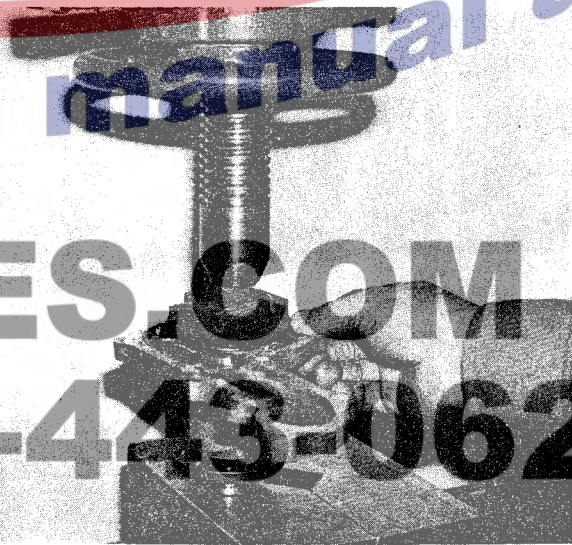


Fig. 154

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