

OPERATOR'S MANUAL

KUBOTA TRACTOR

MODELS L235 • L275



F-2167

READ AND SAVE THIS MANUAL

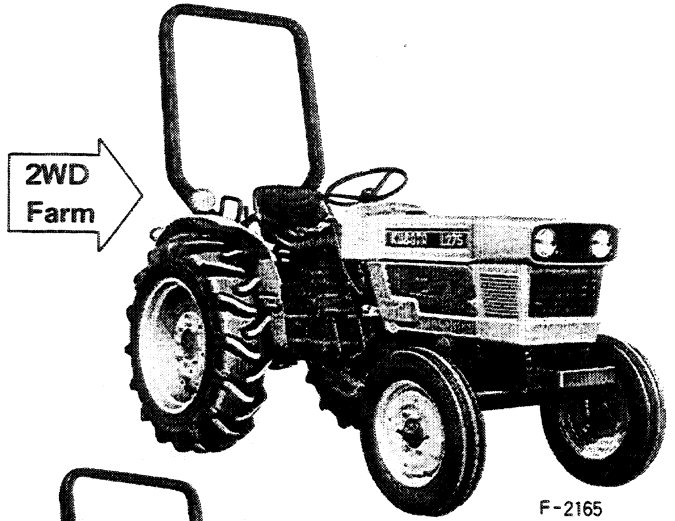
Kubota

L235 SERIES

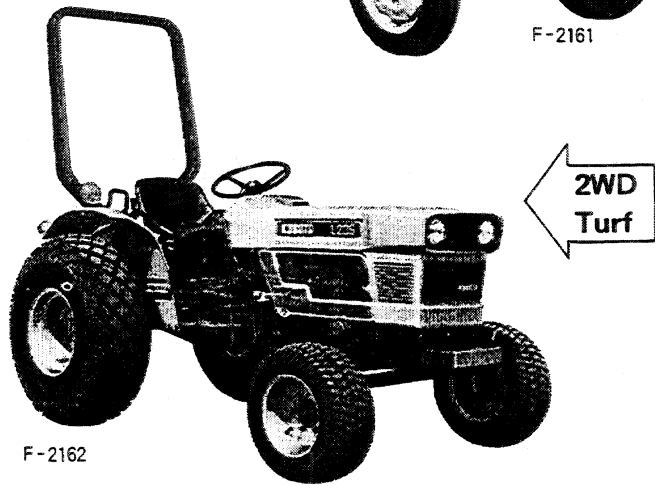
L275 SERIES



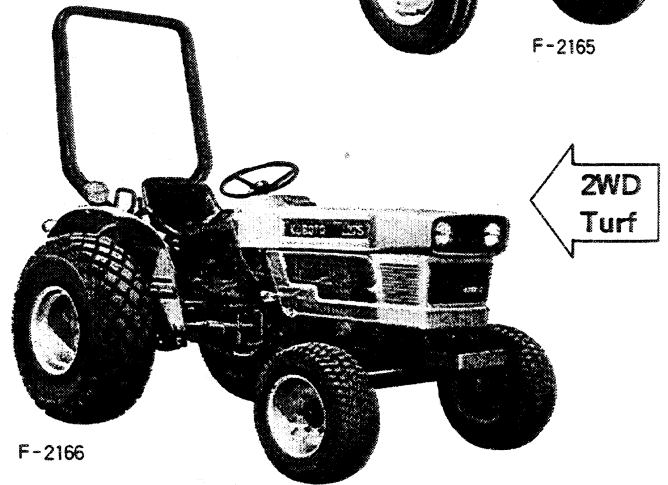
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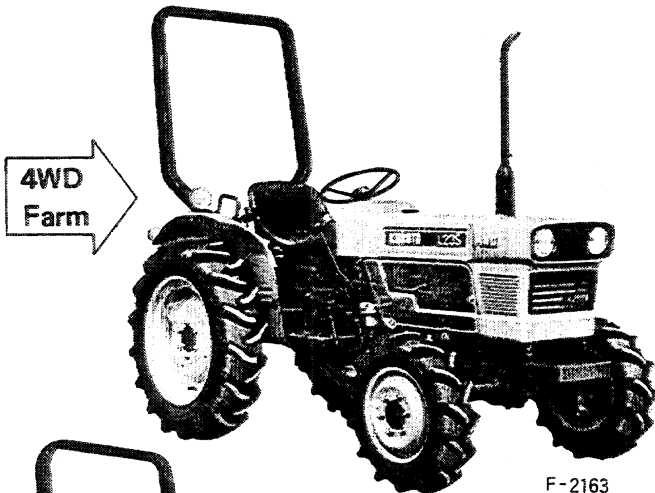
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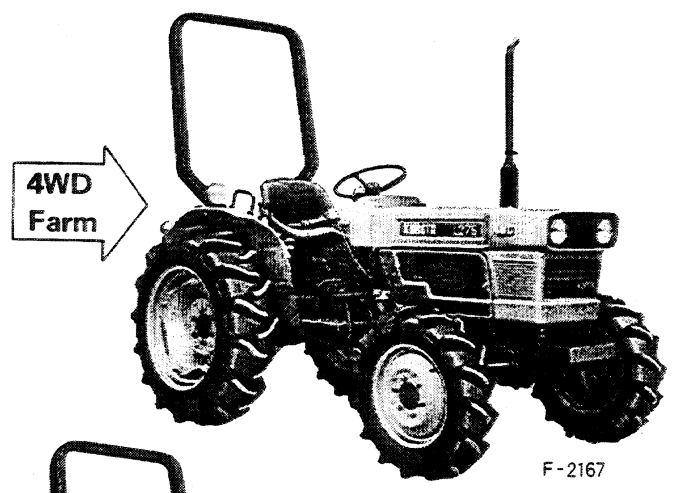
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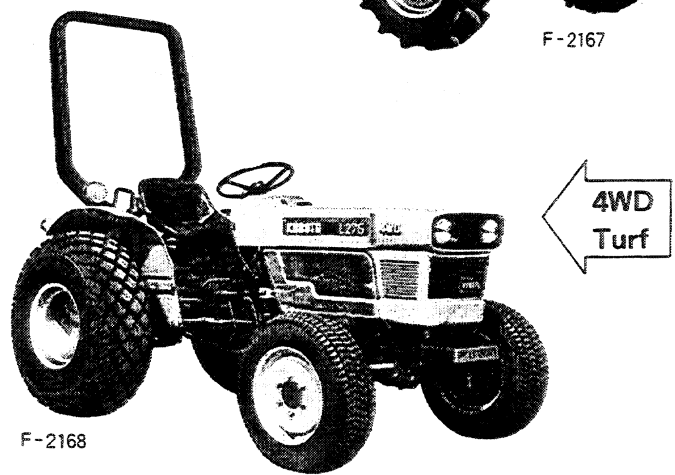
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FOREWORD

You are now the proud owner of KUBOTA L235/L275. This tractor is a product of Kubota quality engineering and manufacturing. It is made of the finest materials and under rigid quality control system. It will give you long, satisfactory service. To obtain the best use of your tractor, please read this manual carefully. It will help you become familiar with the operation of the tractor and contains many helpful hints about tractor maintenance. It is Kubota's policy to utilize as quickly as possible every advance in our research. The immediate use of new techniques in the manufacture of products may cause some small parts of this manual to be outdated. Kubota distributors and dealers will have the most up-to-date informations.

Please do not hesitate to consult with them.



SAFETY ALERT SYMBOL

This is the industry "Safety Alert Symbol." This symbol is used to call your attention to items or operations that could be dangerous to you or other persons using this equipment. Please read these messages carefully.

It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.



FOR SAFE OPERATION

Read these safety tips. Improper use of the tractor and its equipments can result in injury. To reduce this possibility, pay complete attention to the job at hand, and observing the following cautions. If you can prevent an accident, your time will have been spent well.

1. Fuel Supply and Starting Engine

- (1) Always stop the engine before refueling.
- (2) To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.
- (3) Before starting the engine, sit in the seat, disengage the clutch, and place shift levers in the neutral position. Fasten seat belt if equipped with ROPS.
- (4) Before starting the tractor, check to see that there are no people around.
- (5) Before driving the tractor in reverse, check to see that there are no obstacles around.

2. Operation

- (1) Unreasonable operation such as on dangerous terrain, beyond the load capacity or beyond the intended use of the tractor must be avoided as it may cause the tractor to tip over. Refer to "Specifications of Implement Limitations" on page 4 which outlines the maximum loads for safe tractor operation.
- (2) For your safety ROPS with a seat belt is recommended by KUBOTA for most applications. Check operator's manual and discuss with your local dealer.



CAUTION:

- Always use seat belt when the tractor is equipped with a ROPS. Never use the seat belt when the tractor is not equipped with a ROPS.

(ROPS: Roll-Over Protective Structures)

- (3) Keep all safety covers in place.
- (4) When working in cooperation with other tractors, let the other drivers know what you are doing.
- (5) Keep people away from the tractor during operation.
- (6) When using an implement, be sure to install the proper ballast weight on the tractor.

3. Loading and Unloading

- (1) Securely fix a rugged ramp with non-skids and check to see that there are no people around before starting to load or unload.
- (2) When loading or unloading, chock or block the truck tires.

4. Traveling

- (1) Before traveling on the road, be sure to interlock the two brake pedals.
- (2) If descending a slope, never disengage the clutch or shift levers to neutral to avoid overspeeding.
- (3) When traveling on the public road, observe the traffic regulations.
- (4) Always slow down the tractor before turning. Turning at a high speed may tip the tractor over.
- (5) Do not drive with your foot resting on the clutch pedal.
- (6) Do not apply the differential lock while traveling.
- (7) Before operating, widen the rear wheel tread to the outermost recommended position for better stability.

5. Operating with Implement

When installing or using the implement, be sure to read the instruction for the implement and keep precautions in mind.

6. Other Operating Cautions

- (1) Never operate the tractor or any agricultural equipment while under the influence of alcohol or other drugs, or while under fatigue.
- (2) Avoid driving the tractor in loose, bulky clothes.
- (3) Check, service and clean the tractor after stopping the engine, follow the directions of the Operator's Manual.
- (4) Avoid touching the muffler and the radiator during or immediately after operating.
Service or check the tractor after it has completely cooled off.
- (5) When working in the fields or muddy areas, be sure to scrape off mud or soil from the bottom of your shoes before mounting the tractor.
- (6) Before allowing other people to use your tractor, explain how to operate and lend this manual beforehand.
- (7) Read the implement operator's manual to insure safe operating procedures.
- (8) Only use 2nd PTO gear if such speed is recommended in label, implement manual, or other instructions. Otherwise, use only 1st PTO gear speed (9r/s; 540 rpm).
- (9) Keep first aid kit and fire extinguisher near by at all times.
- (10) Never pull from the top link, the rear axle or any point above the drawbar.
Doing so could cause the tractor to tip over rearward causing personal injury.
For pulling, attach to the drawbar (fixed or swinging type). Use the 3-point hitch only with equipment designed for 3-point hitch usage.

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1. SERVICING OF TRACTOR

Your dealer is interested in your new tractor and has the desire to help you get the most value from it. After reading this manual thoroughly, you will find that you can do some of the regular maintenance yourself.

However, when in need of parts or major service, be sure to see your KUBOTA dealer.

For service, contact the KUBOTA Dealership from which you purchased your tractor or your local authorized KUBOTA dealer.

When in need of parts, be prepared to give your dealer both the tractor and engine serial numbers.

The tractor serial number is located on the transmission housing on the right-hand side of the tractor. The engine serial number is located on the engine crankcase, right side. Locate the serial numbers now and record them in the space provided.

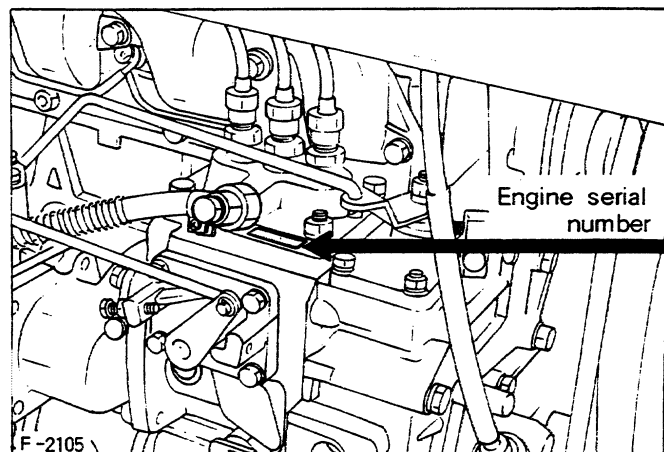
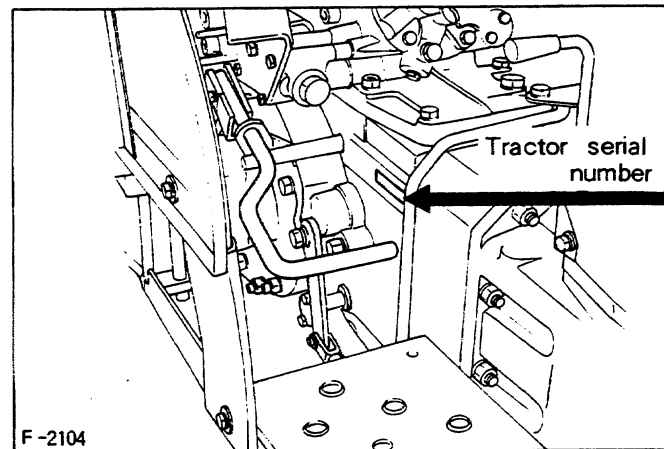
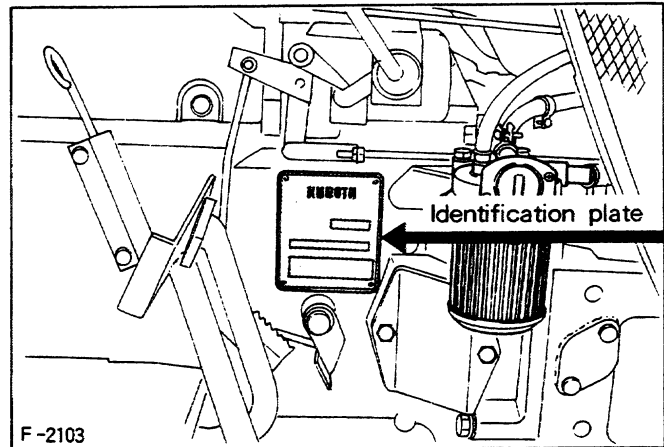
KUBOTA L235 / L235DT / L275 / L275DT

Tractor Serial No. _____

Engine Serial No. _____

Date of Purchase _____

(To be filled in by purchaser)



2. SPECIFICATIONS

Model		L235 (2WD)		L235 (4WD)		L275 (2WD)		L275 (4WD)			
Engine gross power		17.5 kW (23.5 HP)*				20.5 kW (27.5 HP)*					
PTO power		14.2 kW (19 HP)*				17.2 kW (23 HP)*					
Engine	Model	KUBOTA D1102-A				KUBOTA D1302-A					
	Type	Vertical, water-cooled, 4-cycle diesel									
	No. of cylinders	3				3					
	Bore and stroke	76 x 82 mm (3.0 x 3.2 in.)				82 x 82 mm (3.2 x 3.2 in.)					
	Total displacement	1115 cm ³ (68.0 cu.in.)				1299 cm ³ (79.3 cu.in.)					
	Rated revolution	43.3 r/s (2600 rpm)				43.3 r/s (2600 rpm)					
	Fuel	Diesel fuel No. 1 [below -10°C (15°F)] Diesel fuel No. 2 [above -10°C (15°F)]									
	Starter	Electric starter with battery, glow plug and decompression device, 12V, 1.0 kW									
	Lubrication	Forced lubrication by trochoidal pump									
	Cooling	Water with pressurized radiator									
Capacities	Battery	12 V 65 Ah (optional 70 Ah)				12 V 70 Ah					
	Fuel tank	28 ℓ (7.4 U.S.gals.)				28 ℓ (7.4 U.S.gals.)					
	Engine crankcase	6.1 ℓ (6.4 U.S.qts.)				6.1 ℓ (6.4 U.S.qts.)					
	Engine coolant	6.6 ℓ (7.0 U.S.qts.)				6.6 ℓ (7.0 U.S.qts.)					
	Transmission case	24 ℓ (25.4 U.S.qts.)				24 ℓ (25.4 U.S.qts.)					
	Steering box (manual steering)	0.3 ℓ (0.3 U.S.qt.)				0.3 ℓ (0.3 U.S.qt.)					
	Front axle diff. case (total)	-		2.3 ℓ (2.4 U.S.qts.)		-		2.6 ℓ (2.7 U.S.qts.)			
Front axle gear case	-		0.3 ℓ (0.3 U.S.qt.)		-		0.3 ℓ (0.3 U.S.qt.)				
Tires	Front	Farm 4.00-15	Turf 23 x 8.50-12	Farm 6-14	Turf 25 x 8.50-14	Farm 5.00-15	Turf 23 x 8.50-12	Farm 7-16	Turf 27 x 8.50-17		
	Rear	9.5-24	13.6-16	9.5-24	13.6-16	11.2-24	13.6-16	11.2-24	13.6-16		
Dimensions	Overall length	mm (in.)	2860 (112.6)	2860 (112.6)	2860 (112.6)	2860 (112.6)	2860 (112.6)	2860 (112.6)	2860 (112.6)		
	Overall width	mm (in.)	1255 (49.4)	1490 (58.7)	1255 (49.4)	1490 (58.7)	1400 (55.1)	1490 (58.7)	1400 (55.1)		
	Overall height with muffler	mm (in.) (Horizontal)	1385 (54.5) (Horizontal)	1330 (52.4) (Horizontal)	1950 (76.8) (Vertical)	1320 (52.0) (Horizontal)	1390 (54.7) (Horizontal)	1340 (52.8) (Horizontal)	1985 (78.1) (Vertical)	1330 (52.4) (Horizontal)	
	Wheel base	mm (in.)	1690 (66.5)	1690 (66.5)	1640 (64.6)	1640 (64.6)	1690 (66.5)	1690 (66.5)	1640 (64.6)		
	Min. ground clearance	mm (in.)	340 (13.4)	295 (11.6)	260 (10.2)	255 (10.0)	365 (14.4)	295 (11.6)	310 (12.2)		
	Treads	Front	mm (in.)	1010 (39.8)	1100 (43.3)	1000 (39.4)	1070 (42.1)	960 (37.8)	1045 (41.1)	1100 (43.3)	1135 (44.7)
								1120 (44.1)	1205 (47.4)		
								1200 (47.2)	1285 (50.6)		
								1310 (51.6)	1395 (54.9)		
	Rear	mm (in.)	1015 (40.0)	1145 (45.1)	1015 (40.0)	1145 (45.1)	1030 (40.6)	1030 (40.6)	1145 (45.1)	1145 (45.1)	
1125 (44.3)							1125 (44.3)				
1220 (48.0)							1220 (48.0)				
1305 (51.4)							1305 (51.4)				
			1135 (44.7)		1135 (44.7)		1400 (55.1)		1400 (55.1)		
Weight	kg (lbs.)	885 (1950)	890 (1960)	960 (2115)	970 (2140)	975 (2150)	890 (1960)	1050 (2315)	1000 (2200)		
PTO Shaft		Transmission case rear (rear PTO) and engine front (front PTO)									
Rear PTO		SAE 1-3/8 (with overrunning clutch on single clutch tractor)									
Revolutions with single clutch with dual clutch		2 speeds (9 and 13.8 r/s at 40.5 engine r/s) (540 and 828 rpm at 2430 engine rpm) 1 speed (9 r/s at 40.3 engine r/s) (540 rpm at 2415 engine rpm)									
Clutch		Dry single plate or two plates (live PTO; optional)									
Steering		Ball screw type manual steering or integrated type power steering (Optional)									
Transmission		With mechanical shuttle, 8 forward and 7 reverse									
Min. turning radius	m (feet)	2.5 (8.2)		2.7 (8.9)		2.5 (8.2)		2.7 (8.9)			
Brake		Wet disk type									
Differential		Bevel gear									

Note: *Manufacturer's estimate

■ Traveling speeds

Model		L235		L275	
Tire sizes		9.5-24	13.6-16	11.2-24	13.6-16
Forward	1	1.34 km/h (0.83 mph)	1.22 km/h (0.76 mph)	1.38 km/h (0.86 mph)	1.22km/h (0.76mph)
	2	2.06 km/h (1.28 mph)	1.87 km/h (1.16 mph)	2.13 km/h (1.32 mph)	1.87km/h (1.16mph)
	3	3.49 km/h (2.17 mph)	3.17 km/h (1.97 mph)	3.60 km/h (2.24 mph)	3.17km/h (1.97mph)
	4	4.69 km/h (2.91 mph)	4.24 km/h (2.63 mph)	4.82 km/h (3.00 mph)	4.24km/h (2.63mph)
	5	5.57 km/h (3.46 mph)	5.05 km/h (3.14 mph)	5.75 km/h (3.57 mph)	5.05km/h (3.14 mph)
	6	8.54 km/h (5.31 mph)	7.75 km/h (4.82 mph)	8.82 km/h (5.48 mph)	7.75km/h (4.82mph)
	7	14.51 km/h (9.02 mph)	13.16 km/h (8.18 mph)	14.97 km/h (9.30 mph)	13.16km/h (8.18 mph)
	8	19.40 km/h (12.05 mph)	17.60 km/h (10.94 mph)	20.02 km/h (12.44 mph)	17.60km/h (10.94 mph)
Reverse	1	1.21 km/h (0.75 mph)	1.10 km/h (0.68 mph)	1.24 km/h (0.77 mph)	1.10km/h (0.68mph)
	2	1.85 km/h (1.15 mph)	1.68 km/h (1.04 mph)	1.92 km/h (1.19 mph)	1.68km/h (1.04 mph)
	3	3.14 km/h (1.95 mph)	2.86 km/h (1.78 mph)	3.24 km/h (2.01 mph)	2.86km/h (1.78mph)
	4	4.21 km/h (2.62 mph)	3.82 km/h (2.37 mph)	4.34 km/h (2.70 mph)	3.82km/h (2.37mph)
	5	5.02 km/h (3.12 mph)	4.55 km/h (2.83 mph)	5.18 km/h (3.22 mph)	4.55km/h (2.83mph)
	6	7.70 km/h (4.78 mph)	6.98 km/h (4.34 mph)	7.94 km/h (4.93 mph)	6.98km/h (4.34 mph)
	7	13.01 km/h (8.08 mph)	11.86 km/h (7.37 mph)	13.49 km/h (8.38 mph)	11.86km/h (7.37 mph)

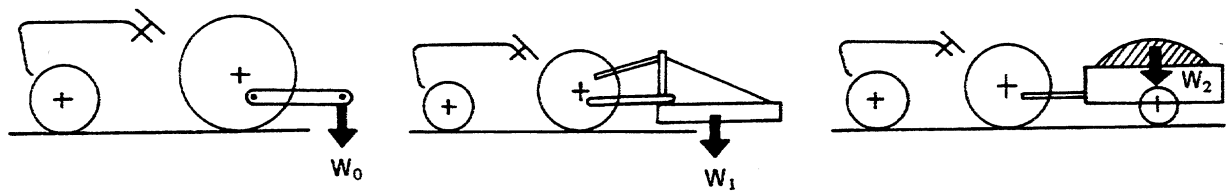
(Specifications and design subject to change without notice)

3. SPECIFICATIONS OF IMPLEMENT LIMITATIONS

The Kubota L235/L275 tractors have been thoroughly tested for proper performance with implements sold or approved by KUBOTA. Use with implements which exceed the maximum specifications listed below, or which are otherwise unfit for use with the Kubota L235/L275 tractors may result in malfunctions or failures of the tractor, damage to other property and injury to the operator or others. [Any malfunctions or failures of the tractor resulting from use with improper implements are not covered by the warranty.]

	Tread with farm tires mm (in.)			Operating condition	Lower link end max. loading weight W_0	Actual figures		
	Front		Rear			Implement weight W_1	Trailer loading weight W_2	
	2WD	4WD						
L235	1	1010 (39.8)	1000 (39.4)	1015 (40.0)	General control operation (Flat ground and slope condition)	Below 500 kg (1100 lbs.)	As in the following list	Below 1000 kg (2200 lbs.)
	2			1135 (44.7)				
L275	1	960 (37.8)	1100 (43.3)	1030 (40.6)	Hard load operation (Flat ground condition)	Below 600 kg (1320 lbs.)	As in the following list	Below 1500 kg (3300 lbs.)
	2	1120 (44.1)		1125 (44.3)				
	3	1200 (47.2)		1220 (48.0)	Medium load operation (Flat ground or slope condition)	Below 500 kg (1100 lbs.)		
	4	1310 (51.6)		1305 (51.4)				
	5	—		1400 (55.1)	Light load operation (Slope condition)	Below 350 kg (770 lbs.)		

Lower link end max. loading weight..... The max. allowable load which can be put on the lower link end: W_0
 Implement weight The implement's weight which can be put on the lower link: W_1
 Trailer loading weight The max. loading weight for trailer (without trailer's weight): W_2



Implement		Remarks	L235(2WD)	L235(4WD)	L275(2WD)	L275(4WD)
Rotary mower	Rear (1 Blade)	Max. cutting width Max. weight	152 cm (60 in.) 295 kg (650 lbs.)	152 cm (60 in.) 295 kg (650 lbs.)	152 cm (60 in.) 295 kg (650 lbs.)	152 cm (60 in.) 295 kg (650 lbs.)
	Mid or rear (2~3 Blade)	Max. cutting width Max. weight	183 cm (72 in.) 295 kg (650 lbs.)	183 cm (72 in.) 295 kg (650 lbs.)	183 cm (72 in.) 295 kg (650 lbs.)	183 cm (72 in.) 295 kg (650 lbs.)
	Sickle bar	Max. cutting width	183 cm (72 in.)	183 cm (72 in.)	183 cm (72 in.)	183 cm (72 in.)
Rotary tiller		Max. tilling width Max. weight	127 cm (50 in.) 295 kg (650 lbs.)	127 cm (50 in.) 295 kg (650 lbs.)	127 cm (50 in.) 295 kg (650 lbs.)	127 cm (50 in.) 295 kg (650 lbs.)
Bottom plow		Max. size	12 in. x 2	12 in. x 2	14 in. x 2	14 in. x 2
Disc plow		Max. size	22 in. x 2	22 in. x 2	24 in. x 2	24 in. x 2
Cultivator		Max. size	152 cm (60 in.) 1 Row	152 cm (60 in.) 1 Row	152 cm (60 in.) 1 Row	152 cm (60 in.) 1 Row
Disc harrow		Max. harrowing width Max. weight	168 cm (66 in.) 295 kg (650 lbs.)	168 cm (66 in.) 295 kg (650 lbs.)	168 cm (66 in.) 295 kg (650 lbs.)	168 cm (66 in.) 295 kg (650 lbs.)
Sprayer		Max. tank capacity	303 ℓ (80 gals.)	303 ℓ (80 gals.)	303 ℓ (80 gals.)	303 ℓ (80 gals.)
Front blade		Max. cutting width Max. weight Sub frame necessary	152 cm (60 in.) 250 kg (550 lbs.)	168 cm (66 in.) 250 kg (550 lbs.)	168 cm (66 in.) 250 kg (550 lbs.)	168 cm (66 in.) 250 kg (550 lbs.)
Rear blade		Max. cutting width Max. weight	152 cm (60 in.) 295 kg (650 lbs.)	168 cm (66 in.) 295 kg (650 lbs.)	168 cm (66 in.) 295 kg (650 lbs.)	168 cm (66 in.) 295 kg (650 lbs.)
Front-end loader		Max. lifting capacity Max. width Oil pressure, relief valve Sub frame necessary	363 kg (800 lbs.) 152 cm (60 in.) 12.3 MPa (126 kgf/cm ²) (1800 psi)	363 kg (800 lbs.) 152 cm (60 in.) 12.3 MPa (126 kgf/cm ²) (1800 psi)	363 kg (800 lbs.) 152 cm (60 in.) 12.3 MPa (126 kgf/cm ²) (1800 psi)	363 kg (800 lbs.) 152 cm (60 in.) 12.3 MPa (126 kgf/cm ²) (1800 psi)
Box blade		Max. cutting width Max. weight	152 cm (60 in.) 295 kg (650 lbs.)	152 cm (60 in.) 295 kg (650 lbs.)	152 cm (60 in.) 295 kg (650 lbs.)	152 cm (60 in.) 295 kg (650 lbs.)
Back hoe (Should be used with 1st or 2nd stage rear tread)		Max. digging depth Max. weight Sub frame necessary	213 cm (84 in.) 500 kg (1100 lbs.)	213 cm (84 in.) 500 kg (1100 lbs.)	213 cm (84 in.) 500 kg (1100 lbs.)	213 cm (84 in.) 500 kg (1100 lbs.)
Snow blower		Max. working width Max. weight Sub frame necessary	152 cm (60 in.) 250 kg (550 lbs.)	152 cm (60 in.) 250 kg (550 lbs.)	152 cm (60 in.) 250 kg (550 lbs.)	152 cm (60 in.) 250 kg (550 lbs.)
Trailer		Max. load capacity	1500 kg (3300 lbs.)	1500 kg (3300 lbs.)	1500 kg (3300 lbs.)	1500 kg (3300 lbs.)
Three point lift		Max. load capacity	See page 4.			

4. HANDLING NEW TRACTOR

How a new tractor is handled and maintained determines the life of the tractor.

A new tractor just off the factory production line has been, of course, well fitted and tested, but the various parts are not accustomed to severe types of work, so care should be taken to operate the tractor for the first 100 hours at a slower speed and avoid excessive work or operation until the various parts become well "broken-in." The manner in which the tractor is handled during the "breaking-in" period greatly affects the life of your tractor. Therefore, to obtain the maximum performance and the longest life of the tractor, it is very important to properly break-in your tractor.

In handling a new tractor the following precautions should be well observed.

■ **Do not operate the tractor at full speed for the first 100 hours.**

- Do not start quickly nor apply the brakes suddenly.
- In winter, run the tractor after fully warming up the engine.
- Do not run at speeds faster than necessary.
- On rough roads, slow down to suitable speeds. Do not operate the tractor at fast speed.

The above precautions are not limited only to new tractors, but to all tractors. But it should be especially observed in case of new tractors.

■ **Changing lubricating oil for new tractors**

The lubricating oil is specially important in the case of a new tractor. The various parts are not "broken-in" and are not accustomed to each other; small metal grit may develop during the operating of the tractor; and this may wear out or damage the parts. Therefore, care should be taken to exchange the lubricating oil a little earlier than would ordinarily be required.

For further details of exchange interval hours, see check list.

■ **Read "For Safe Operation" to assure Safe Operation.**

Please read "For Safe Operation."



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