OPERATOR'S MANUAL

KUBOTA TRACTOR

MODELS L235 • L275



F-2167

READ AND SAVE THIS MANUAL

Kubota

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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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2. SPECIFICATIONS

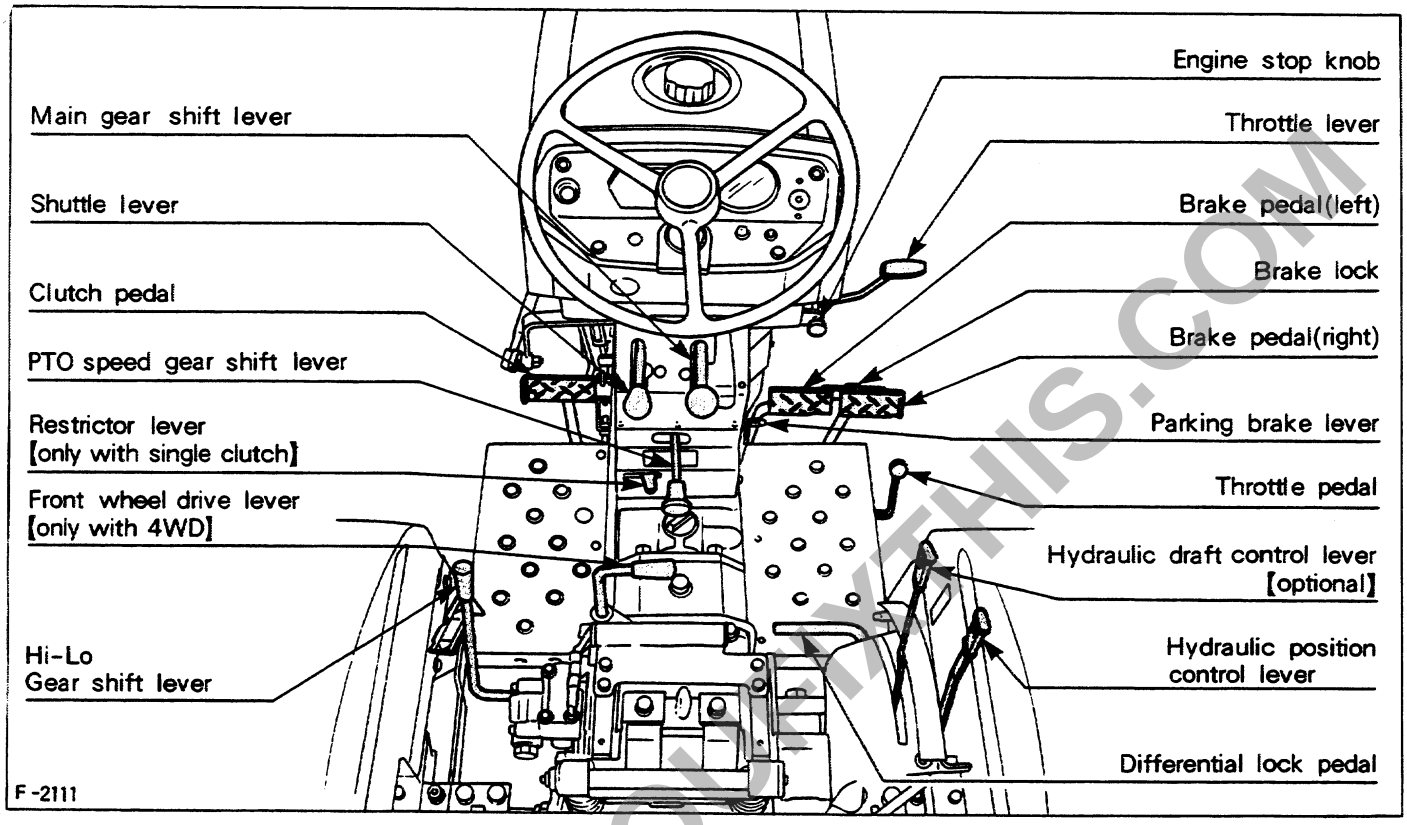
Model			L235 (2WD)		L235 (4WD)		L275 (2WD)		L275 (4WD)	
Engine gross power			17.5 kW (23.5 HP)*				20.5 kW (27.5 HP)*			
PTO power			14.2 kW (19 HP)*				17.2 kW (23 HP)*			
Engine	Model		KUBOTA D1102–A				KUBOTA D1302–A			
	Type		Vertical, water-cooled, 4-cycle diesel							
	No. of cylinders		3				3			
	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 cm³ (68.0 cu.in.)				1299 cm³ (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							
	Battery		12 V 65 Ah (optional 70 Ah)				12 V 70 Ah			
Capacities	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 8.50–1[illegible]
		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)	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)	1490 (58.7)
	Overall height with muffler mm (in.)		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)	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)	275 (10.8)
	Treads	Front mm (in.)	1010 (39.8)	1100 (43.3)	1000 (39.4)	1070 (42.1)	960 (37.8) 1120 (44.1) 1200 (47.2) 1310 (51.6)	1045 (41.1) 1205 (47.4) 1285 (50.6) 1395 (54.9)	1100 (43.3)	1135 (44.7)
		Rear mm (in.)	1015 (40.0) 1135 (44.7)	1145 (45.1)	1015 (40.0) 1135 (44.7)	1145 (45.1)	1030 (40.6) 1125 (44.3) 1220 (48.0) 1305 (51.4) 1400 (55.1)	1145 (45.1)	1030 (40.6) 1125 (44.3) 1220 (48.0) 1305 (51.4) 1400 (55.1)	1145 (45.1)
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

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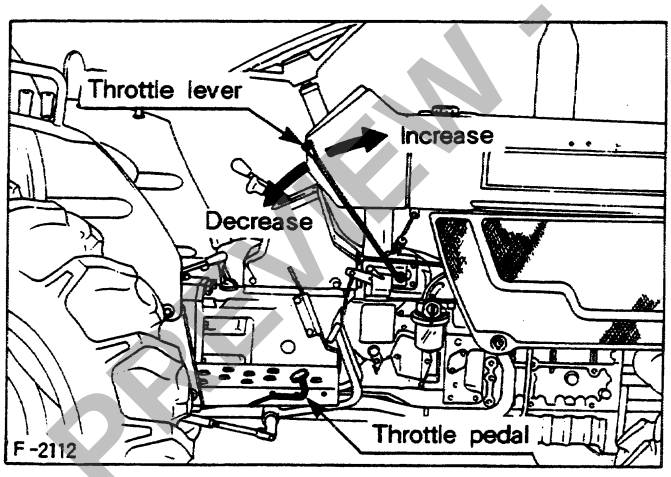
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5.2 CONTROLS



■ Throttle Lever

Pulling the throttle lever backward decreases engine speed, and pushing it forward increases engine speed.

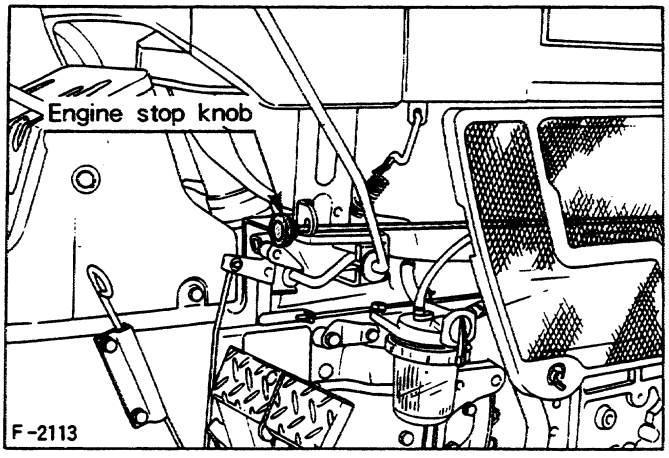


■ Throttle Pedal

Depressing the pedal increases engine speed.
The throttle pedal may also be used to increase above engine speed set with the throttle lever.

■ Engine Stop Knob

Pull engine stop knob backward and hold it until the engine stops.



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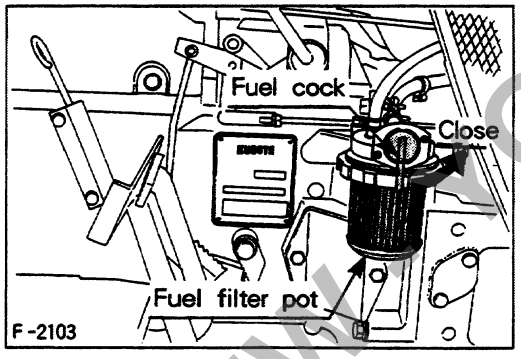
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(2) The fuel pipe is made of rubber and ages regardless of period of service. Change the fuel pipe together with the tightener band every two years and securely tighten.
(3) However, if the fuel pipe and tightener band are found damaged or deteriorated earlier than two years, then change or remedy.
(4) After the fuel pipe and tightener band have been changed, bleed the fuel system.

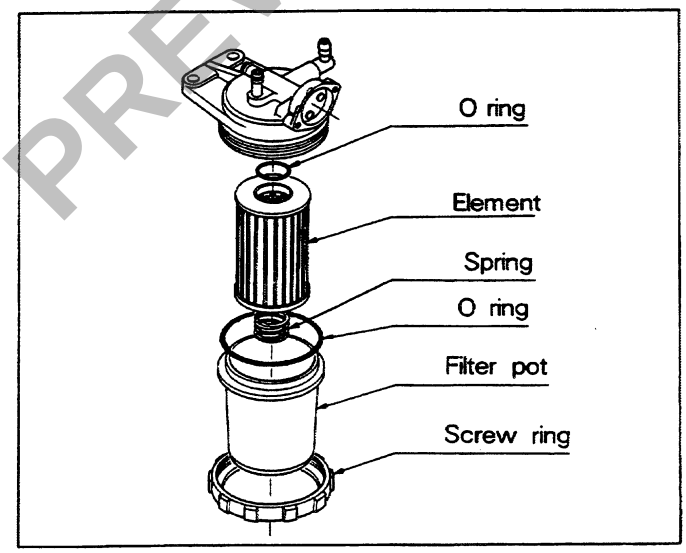
IMPORTANT:
- When the fuel pipe is disconnected for change, close both ends of the fuel pipe with a piece of clean cloth or paper to prevent dust and dirt from entering. Entrance of dust and dirt causes malfunction of the fuel injection pump. In addition, particular care must be taken not to admit dust and dirt into the fuel pump.

■ Cleaning the Fuel Filter Pot

When period of operation reaches approx. 100 hours, clean the fuel filter.
This job should not be done in the field, but in a clean place so as to prevent dust intrusion.
(1) Close the fuel filter pot cock.



(2) Unscrew and remove the top cap, and rinse the inside with kerosene.
(3) Take out the element and dip it in the kerosene to rinse.



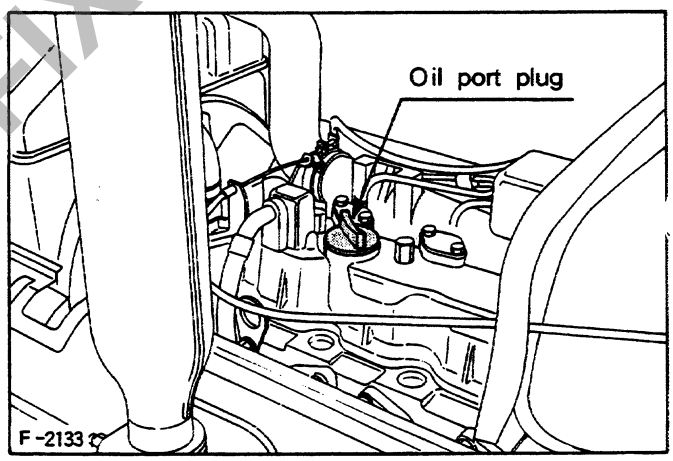
(4) After cleaning, reassemble the fuel filter, keeping out dust and dirt.
(5) Bleed the injection pump.

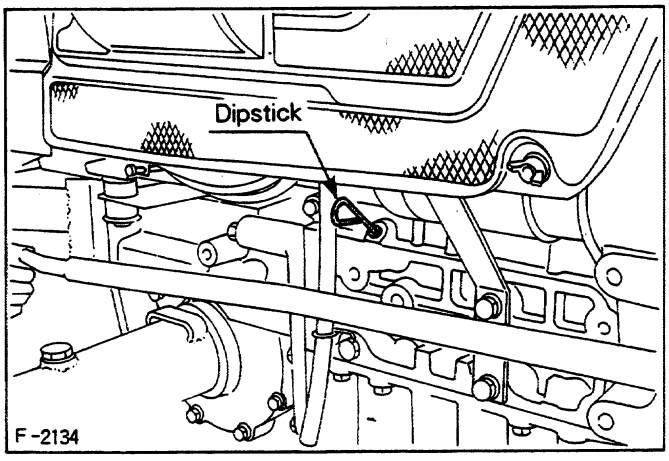
IMPORTANT:
- If dust and dirt enter the fuel, the fuel pump and injection nozzle are subject to quick wear. To prevent this, be sure to clean the fuel filter pot periodically.

10.2 ENGINE OIL

■ Oil Level Check and Replenishment (See page 27)

(1) Check engine oil before starting the engine and 5 minutes or more after the engine has stopped.
(2) To check the oil level, draw out the dipstick, wipe it clean, replace it, and draw it out again. Check to see that the oil level lies between the two notches.
(3) If the level is too low, add new oil to the prescribed level at the oil port.





(4) When using an oil of different maker or viscosity from the previous one, remove all of the old oil. Never mix two different types of oil.
(5) Use the proper Engine Oil SAE according to the ambient temperatures.
Refer to 9.2 "LUBRICANTS."

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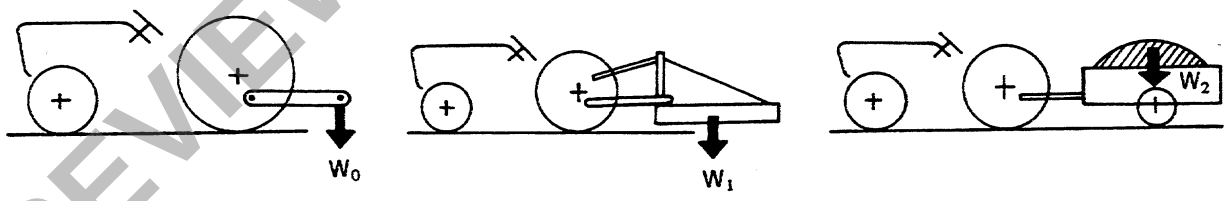
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3. SPECIFICATIONS OF IMPLEMENT LIMITATIONS

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.)				Lower link end max. loading weight W_0	Actual figures	
	Front		Rear	Operating condition		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.)
L235 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.)
L275 2	1120 (44.1)		1125 (44.3)				
L275 3	1200 (47.2)		1220 (48.0)	Medium load operation (Flat ground or slope condition)	Below 500 kg (1100 lbs.)		
L275 4	1310 (51.6)		1305 (51.4)				
L275 5	—		1400 (55.1)	Light load operation (Slope condition)	Below 350 kg (770 lbs.)	30% less than the list figures	

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



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9.3 MAINTENANCE CHECK LIST

Frequency of Checks	Check Points	Reference Pages
Initial operation (initial 60 hours)	During this period, pay special attention to the following. (1) After the initial 35 hours of use, change the engine oil and clean the oil filter. (2) After the initial 50 hours of use, change the transmission fluid and the oil filter cartridge. (3) Quick starts or sudden braking should be avoided.	30 to 31 31 to 32 –
Every 75 hours	Change engine oil.	31
Every 100 hours	Lubricate the following points. King pins, Pedal shaft, Center pin, Speed restriction wire.	33 to 34
	Check the following points to be connected securely. Hydraulic inlet pipe clamps, Fuel pipe clamps	29
	Clean air cleaner element.	36
	Clean fuel filter.	30
	Check battery electrolyte level.	36
	Check fuel pipe.	29
	Check fan drive belt tension.	38
	Check clutch play.	38
	Check brake play.	38
	Check steering wheel play.	39
	Check front axle support.	39
Every 150 hours	Change engine oil filter cartridge.	31
	Check radiator hose.	35
	Check steering gear box oil level.	33
Every 300 hours	Change transmission fluid. Transmission case, front axle differential case (4WD), front axle gear case (right and left) (4WD). ● Change transmission oil filter cartridge.	31 to 32
Every 400 hours	Change fuel filter.	–
Every 500 hours	Clean radiator interior.	35
Every one to two months	Recharge Battery if necessary.	37
Every 3 months	Change scale inhibitor and coolant.	35
Every year or every 6 times of cleaning	Change air cleaner element.	36
Every year	Change anti-freeze and coolant.	35
Every 2 years	Change battery, if necessary.	–
	Change radiator hose and tightener band.	35
	Change fuel pipe and tightener band.	29 to 30
	Change hydraulic hoses and tightener band.	–

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