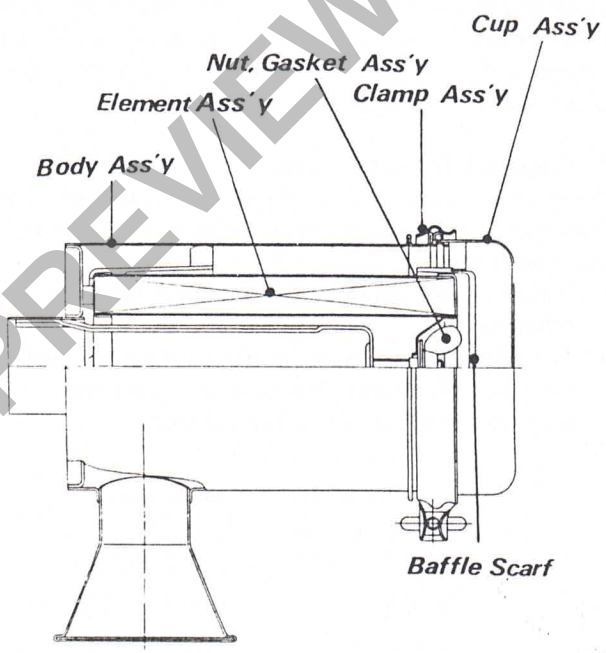
9.2 AIR CLEANER

1. This air cleaner of dry element type, therefore oil is not needed.
2. Empty dust cup.
   Dust level should not be allowed to build up to more than half from bottom in dust cup baffle.
   Remove foreign material such as leaves from around the filter and tighten wing bolt if necessary.
3. Install the dust cup to the air cleaner so as the mark on the cover of the cup points upward.
4. Clean the element every 100 hours of operation. Direct dry, clean air up and down pleats on the clean air side of the filter.

【CAUTION】

* Air pressure at the nozzle must not exceed 100psi (7kgf/cm^2: 0.69MPa). Maintain reasonable distance between the nozzle and the filter.
To wash the filter use KUBOTA Filter of Donaldson ND-1500 Filter Cleaner which is especially effective on oily and soot-laden filters.
To use: Dissolve KUBOTA Filter Cleaner in a concentrated solution of cold water. When granules are thoroughly mixed. Add water to make a solution equivalent to 2 oz. KUBOTA Filter Cleaner for each 1 gallon of water. (15g KUBOTA Filter Cleaner for each 1 Quart (1ℓ) of water.) Allow element to soak 15 minutes. Then agitate element to dislodge loosened dust—rinse in clear water—allow element to dry.

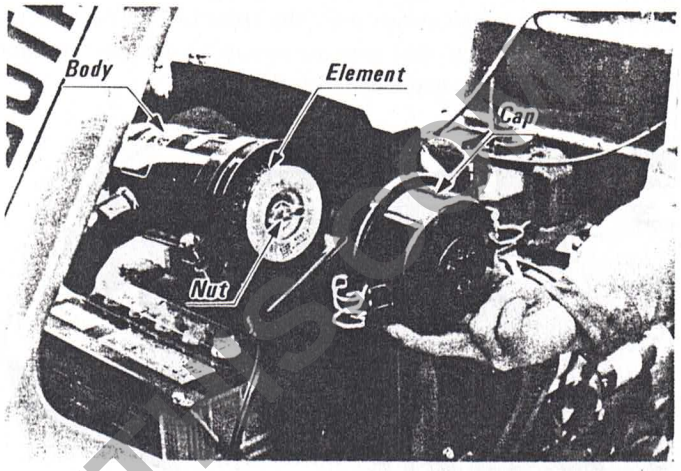
5. Filter should be replaced after 6 cleanings or annually.



Structure of Air Cleaner

【CAUTIONS】

Never run engine with filter element removed.



9.3 RADIATOR

The radiator has been constructed rigidly but if handling is mistaken, the radiator may be damaged and the engine may be damaged because of it. If the radiator is filled with clean water before start of work, it would be ample for one day's work. (Make it a habit to check the water level every day before start of work.)

■ **The pressurized Radiator Cap**

(1) Be sure to close the radiator cap securely.
The radiator cap completely seals in the water.
If the cap is loose or not properly sealed, the water would spill out and soon cause a shortage of water.

(2) Do not open the radiator cap while the engine is running under heavy load or immediately after the engine has been stopped. If the cap should be opened in such cases, hot water would gush out and cause scalding. Make it a habit to wait for about 10 minutes before opening the cap.

(3) When draining water from the radiator, open the water drain cocks (at the bottom of the radiator and the side of the cylinder frame) and at the same time remove the radiator cap. If the drain cocks are opened with the radiator cap closed, only a part of the water would be discharged and it would be impossible to drain out the water cooling system completely.

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■ Trouble shooting

Condition of Battery	Probable Cause of Trouble	Measures	Precaution
Starter does not function	Battery over-used until light becomes dim	Charge for long period by ordinary charging method until specific gravity of 1.26 is reached.	Do not overuse the battery and charge before fully discharged. (Refrain from overdischarging)
	Charging of battery neglected		
	Defective Alternator rectifier.	Repair Alternator and replace defective rectifier. Charge battery well.	Check Alternator rectifier.
	Dirty or corroded terminal contacts	Wash terminal with hot water and tighten well.	Keep terminals clean, tighten well and grease to prevent corrosion.
	Bad brushes, armature or field	Replace	
	Life of battery expired	Replace battery	
From beginning, starter does not function, and lights become dim quickly.	Battery not charged well	Charge battery for long period by ordinary charging method.	Battery must be serviced properly before initial use.
Low electrolyte level.	Battery used with shortage of electrolyte.	Add distilled water and charge battery	Make routine checks of electrolyte
	Battery over-used. Moreover, charging was neglected. (Refrain from over-discharging.)	Charge for a long period.	Do not overuse the battery and fully discharge.
	Defective Alternato rectifier. Defective terminal contacts causing sulphation of electrodes.	Check Alternator and rectifier and charge for long period by ordinary charging method.	Make routine checks of terminals, to make sure they are clean and tight.
Battery cannot be charged.	The current of the Alternator during operation is too high causing plates to drop, warp or short-circuit.	Decrease the charging current of Alternator. Exchange defective battery.	Check charging current of Alternator.
	Life of battery expired.	Exchange battery.	
Corrosion of terminals severe and terminals beheated.		Clean scale from terminals and tighten well.	Keep terminals clean and well tightened. Apply grease to prevent corrosion.
	Current of the Alternator during operation is too large.	Adjust charging current of Alternator.	Check charging current of Alternator.
Electrolyte decrease rapidly	Over heating due to over charging.	Check charging out put.	
	Storage battery cracked or has small holes.	Replace battery	Secure battery to tractor so it would not move.

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12. Maintenance Check List

【Note】 Make sure to stop engine completely prior to checking and adjustment.

Maintenance Check List

(for details please refer to the attached check list.)

Frequency of check	Checks	Notes
Initial operation (first 60 hours)	During this period, pay careful atention to the following: 1) After the first 35 hours of use, change the engine oil anc clean the oil filter of the hydraulic mechanism. 2) After the first 50 hours of use, change the transmission oil. 3) Sudden staring or sudden braking should be avoided. 4) When the outside temperature is low, allow the engine to warm-up prior to operation. 5) Unusually fast driving must be avoided. 6) Reduce speed on slopes or during bad road conditions.	
Daily checks (check every-time prior to use)	1) Check completely all abnormalities found during previous operation. 2) Go around the tractor and check the following points: 1. Air pressure, wear and general condition of tires 2. Oil or water leakage 3. Amount of engine oil and degree of con-tamination 4. Amount of transmission oil and degree of contamination 5. Amount of fuel and coolant 6. Condition of dust cup in air cleaner 7. Tractor body for damage, loosened bolts and nuts 8. Condition of lamps 9. Dirt or damage of the number plate 3) While in the driver's seat check the following: 10. Operation of brake pedals and clutch pedals 11. Operation of parking brake. 12. Operation of steering wheel 13. Dirt on lamps and operation of lamps 14. Operation of all meters and guages. 15. Color of exhaust gas 16. Operation of winkers (optional)	The oil level must be between the two marks on the dipstick. The oil level must be to the top line on the dipstick. Stop the engine while adding oil. Do not add oil near an ope flame.
Every 50 hours	1) Lubrication 1. Front axle (in the center) 2. Front axle (on right and left sides) 3. Connection of clutch and brake pedals (three points) 4. Right side of lifting rod 5. Drag link end (two points) 6. Tie rod end (two points) 7. Knuckle pin (on right and left sides) L245DT) 8. Center-pin (L245DT) 9. Front wheel drive lever (L245DT) 2) Check to make sure fixing scres of oil pressure pipe and fuel pipe are tight.	Apply a small amount of chassis grease.
Every 75 hours	1) Change engine oil.	Amount of oil: 6.4 Quarts (6.1ℓ)

Rear	F	11.2/10-24 R-1	14 psi (1.0 kgf/cm²; 0.1 MPa)
	T	13.6-16 R-3	14 psi (1.0 kgf/cm²; 0.1 MPa)
	DT	11.2/10-24 R-1	14 psi (1.0 kgf/cm²; 0.1 MPa)
Front	F	5.00-15	32 psi (2.2 kgf/cm²; 0.22 MPa)
	T	20x8.00-10	24 psi (1.7 kgf/cm²; 0.17 MPa)
	DT	7-16	26 psi (1.8 kgf/cm²; 0.18 MPa)

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5. Operation

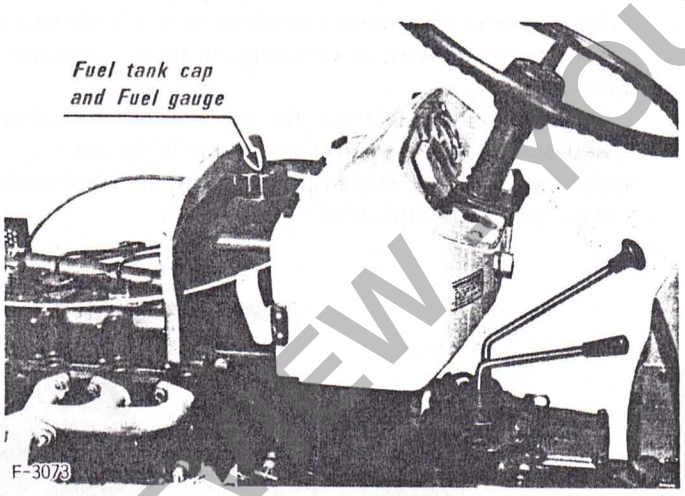
Your KUBOTA TRACTOR was designed and engineered for dependable performance during long service life. Follow the suggestions in this section of the Operator's Manual to help you obtain all the performance that was designed and built in your tractor.

As you become familiar with the operation of your new tractor, you will find it a flexible and reliable machine, designed and built with regular maintenance, will ensure maximum tractor life, economical operation and excellent performance.

5.1 PRESTARTING INSPECTION

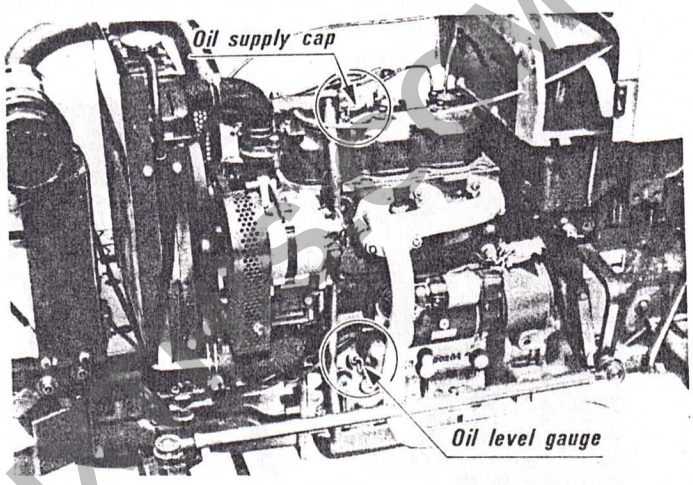
Before starting the engine each day, perform the following checks and services:

* Do not start the engine in a closed storehouse, garage or room. Exhaust gas is poisonous. Be sure to open the doors and windows before starting.
* Check fuel supply.
  Use No.2 diesel fuel only.

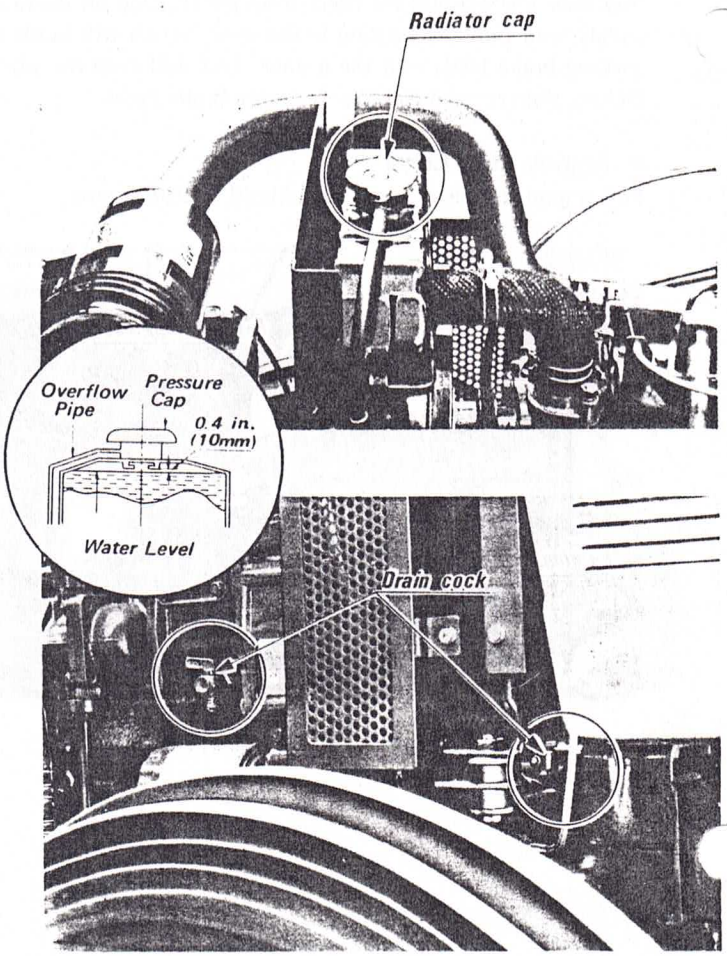


Fill the fuel tank before it becomes empty. If a diesel system is allowed to run out of fuel, it will become necessary to air-bleed the system after filling the fuel tank.

* Check oil level in the engine crankcase and correct, if necessary.



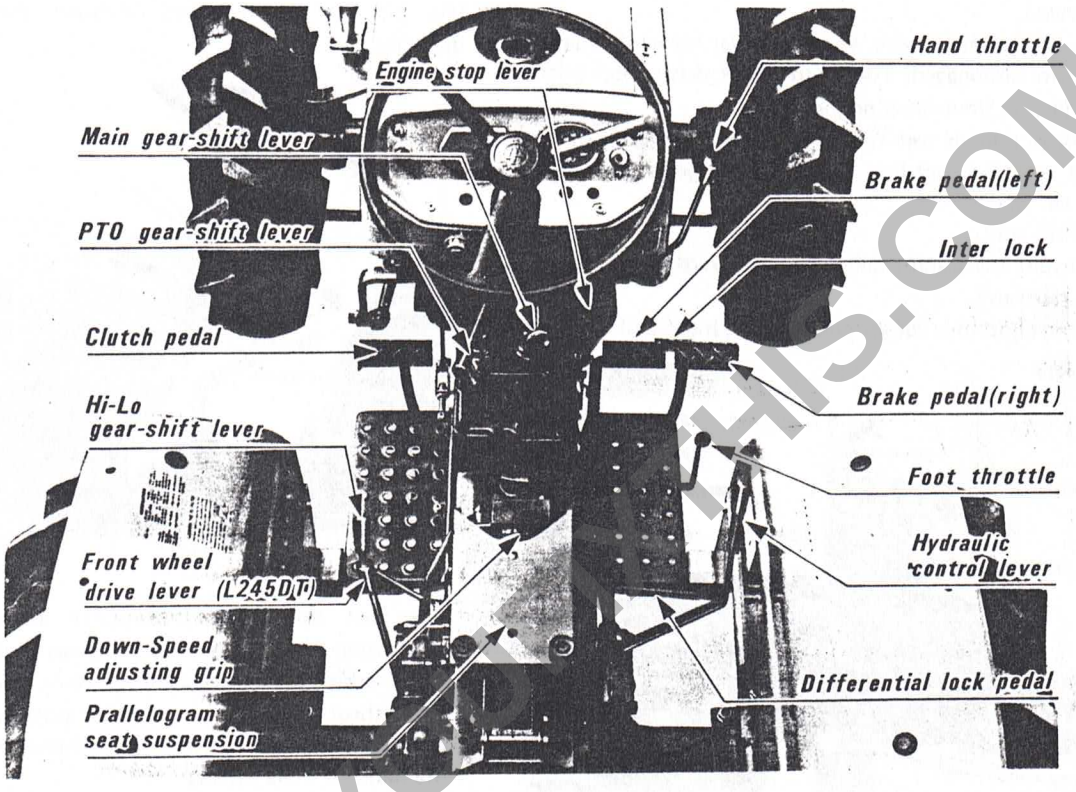
* Check the radiator coolant level and correct, if necessary. If operating in freezing temperatures, add anti-freeze. Proper level is indicated in figure below.



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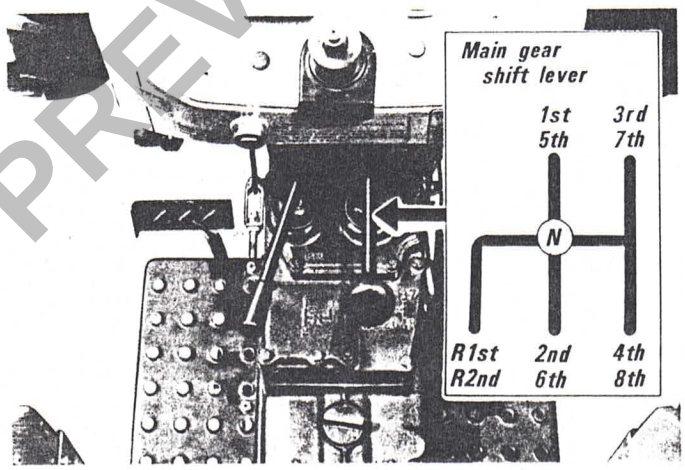
4.2 CONTROLS

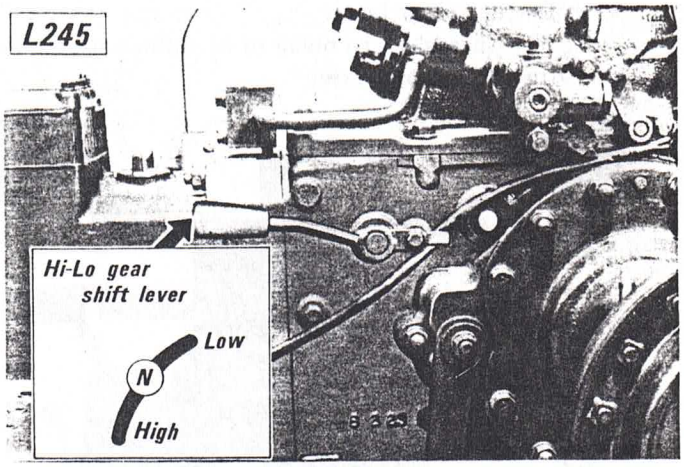


■ Main Gear Shift Lever & Hi-Lo Gear Shift Lever

The main gear shift lever pattern is in the form of an "H". The hi-lo gear shift lever moves two stages, "high" and "low".

By combination and use of the main gear shift lever and the hi-lo gear shift lever, it is possible to obtain four speeds forward in "high" range and four speeds forward in "low" range, or a total of eight speeds forward; and two speeds reverse, high and low.





[CAUTION]

To change speed, press the clutch pedal completely down and stop the tractor before attempting to proceed with speed change.

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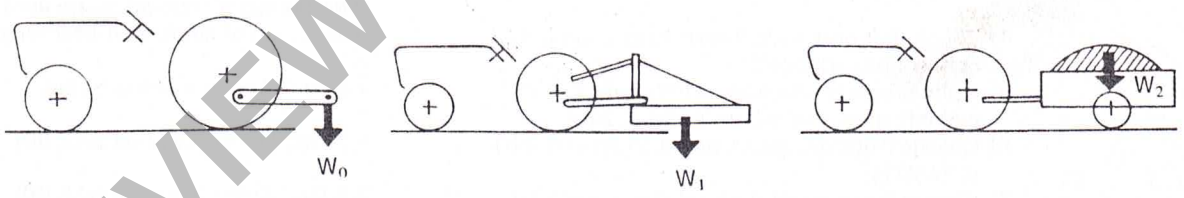
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13. L245 The Superior Limit of The Implement

The Kubota L245 tractor has been thoroughly tested for proper performance with implements sold or approved by us. Use with implements which exceed the maximum specifications listed below, or which are otherwise unfit for use with the Kubota L245 tractor 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 in.(mm)			Operating condition	Lower link end max. loading weight W_0	Actual figures	
	Front		Rear			Implement weight W_1	Trailer loading weight W_2
	F	DT	F, DT				
1	37-3/4 (960)	39-3/4 (1010)	41-1/8 (1045)	Hard load operation (Flat ground condition)	Below 880 lbs. (400 kg)	As in the following list	Below 2200 lbs. (1000 kg)
2	44-1/8 (1120)		46 (1170)				
3	47-1/4 (1200)		50-3/8 (1280)	Medium load operation (Flat ground or slope condition)	Below 660 lbs. (300 kg)		
4	51-5/8 (1310)		51-5/8 (1310)				
5			55-3/8 (1405)	Light load operation (Slope condition)	Below 550 lbs. (250 kg)	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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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 "The Superior Limit of The Implement" on page 33 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 or 3rd PTO gear if such speed is recommended in label, implement manual, or other instructions.
Otherwise, use only 1st PTO gear speed (9r/s; 540rpm).
(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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