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OPERATOR'S MANUAL FOR M4500/ M4500DT/ M5500/ M5500DT/ M7500/ M7500DT

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SAFETY PRECAUTIONS

SAFETY SECTION

While equipment safety is a uniquely human preoccupation, people operating equipment continue to be the greatest hazard to themselves. In many cases, it is the failure of human judgement that results in the most severe accidents. Carelessness, taking unsafe short cuts, ignoring warnings and operating machinery with which people are unfamiliar are most often the cause of serious accidents where people are hurt or killed.

This safety section has been prepared to provide you with information that will help you avoid unsafe operating conditions. This section of the manual is a review of general safety precautions that relate to the tractor and farm machinery in general. Before operating your tractor, read this section and the entire manual carefully. Commit the following safety precautions to memory, make them part of your everyday work habits. Be sure you understand all the operating procedures for the tractor and that you are familiar with the tractor instruments and operating mechanisms before you operate the tractor.

Once you have familiarized yourself with the tractor and its operating characteristics, be aware that this familiarity can cause carelessness. Familiarity with your tractor does not mean that safety can be forgotten. A renewed commitment to safety must be made every day. Remember, SAFETY IS NO ACCIDENT !

1. TRACTOR OPERATIONS

This section contains general tractor operating safety suggestions as well as specific suggestions for safe maintenance and operation of various tractor components.

(1) Do not start the tractor unless you are seated in the driver's seat.

(2) Do not allow anyone, other than the driver, to ride on the tractor, drawbar or three point hitch at any time.

(3) When operating the tractor on public roads, obey all traffic laws and local regulations pertaining to the operation of farm equipment.

(4) Lock the brake pedals together whenever operating the tractor on the road. Uneven braking at road speed may cause the tractor to swerve uncontrollably.

(5) Exercise extreme caution when operating the tractor up and down or across hillsides. Before starting hillside operation, widen the wheels to the widest position. Keep the brake pedals locked together and the tractor in gear. Avoid sharp turns or sudden movement with the tractor. Always carry any attached implements low. Never allow the tractor to freewheel downhill.

(6) Keep a safe distance between the tractor and the edge of cliffs, gullies and ditches. The shoulders of such drop-offs may be soft and give way under the weight of the tractor wheel allowing the tractor to tip or fall.

(7) Do not tow the tractor at a speed greater than it would travel under its own power.

(8) Never tow a trailer that weighs more than twice the weight of the tractor unless the trailer is equipped with brakes.

(9) Exercise extreme caution when pulling heavy loads at road speed. Avoid sudden application of the brakes. When travelling downhill, keep the tractor in low gear in order to maintain control without overworking the brakes.

(10) Always wear appropriate personal protective equipment such as eye protection, ear plugs, head protection, gloves, steel-toed shoes, air filtration equipment or other kinds of body protection that may be appropriate for the kind of work you are doing. Be aware that loose fitting clothing can get caught in moving parts which may result in personal injury.

(11) When working with crop chemicals, protect your eyes, skin and respitory system from damaging contact with the chemicals.

(12) Do not operate your tractor with worn-out, obsolete equipment or equipment that is incompatable with the tractor.

(13) Do not perform maintenance or repairs to the tractor or other machinery if you are not qualified to do so. A machine that is not repaired properly may be unsafe to operate. If, at any time, you have any question about the repair and maintenance procedures for your KUBOTA Tractor, see your KUBOTA Dealer.

(14) Do not perform any maintenance work to the tractor or attached implements while they are in motion unless such repair is specifically recommended by the manufacturer.

(15) While operating the tractor always be aware of any noticeable changes in the operating characteristics of the tractor, including changes in the color of the engine exhaust and unusual sounds or vibrations. Unusual operating characteristics often warn of a more serious underlying problem that may not only endanger the operator's safety, but may indicate a serious mechanical malfunction.

(16) NEVER OPERATE THE TRACTOR OR ANY AGRICULTURAL EQUIPMENT WHILE UNDER THE INFLUENCE OF ALCOHOL OR OTHER DRUGS.

(17) Keep a fire extinguisher near your fuel filling and fuel storage areas. Be sure the extinguisher is properly maintained and that you are familiar with its use.

(18) Keep a first aid kit in a convenient location.

2. HANDLING FUEL AND OTHER COMBUSTABLE MATERIALS

(1) Store fuel in a well-ventilated area.

(2) Never refuel the tractor while the engine is running or while the engine is hot.

(3) Do not smoke, light matches or expose open flame while using starting fluid, filling the fuel tank, or servicing the fuel system.

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■ Hour meter

The hour meter shows the engine revolution, PTO shaft revolution and the number of hours the tractor has been used for.

(1) The indicator shows the engine revolution and the corresponding PTO revolution. The red line indicates the standard PTO revolution.

(2) The center of the meter has 5 digits showing the number of hours the tractor has been used (to the nearest tenth.)

■ Water thermometer

This indicates the engine temperature with the key and light switch in the ON position.

[CAUTION]

If the indicator should go over H line, the engine must be stopped until the cause of the overheating is corrected.

(Such as quantity of cooling water, fan belt loosening)

(1) After operating the engine, never touch radiator until it has had sufficient time to cool.

(2) Check this water thermometer frequently as you operate.

■ Oil pressure warning lamp (red)

Shows whether the oil pressure in the engine is proper.

(1) The light goes on when the key and light switch is turned on. It goes off when the engine starts and the engine oil starts to circulate normally.

(2) If the light stays on even after the engine starts, immediately stop the engine, and check the cause of the trouble.
It is normal for the lamp to stay on while the engine is rotating at a low speed.

■ Alternator warning lamp (red)

The pilot lamp shows whether the battery is properly charged.

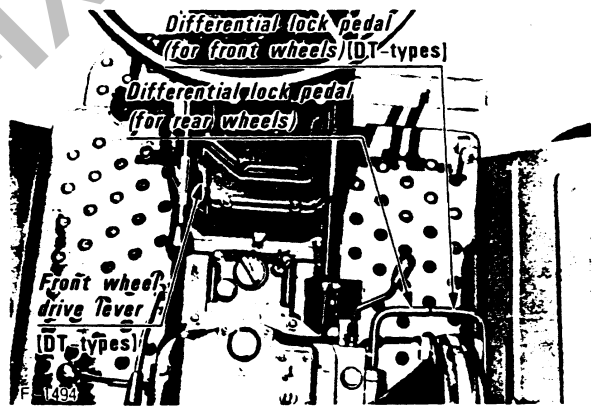
(1) The lamp goes on when the key and light switch is turned on. It goes off when the engine starts and the battery charging system starts to function normally.

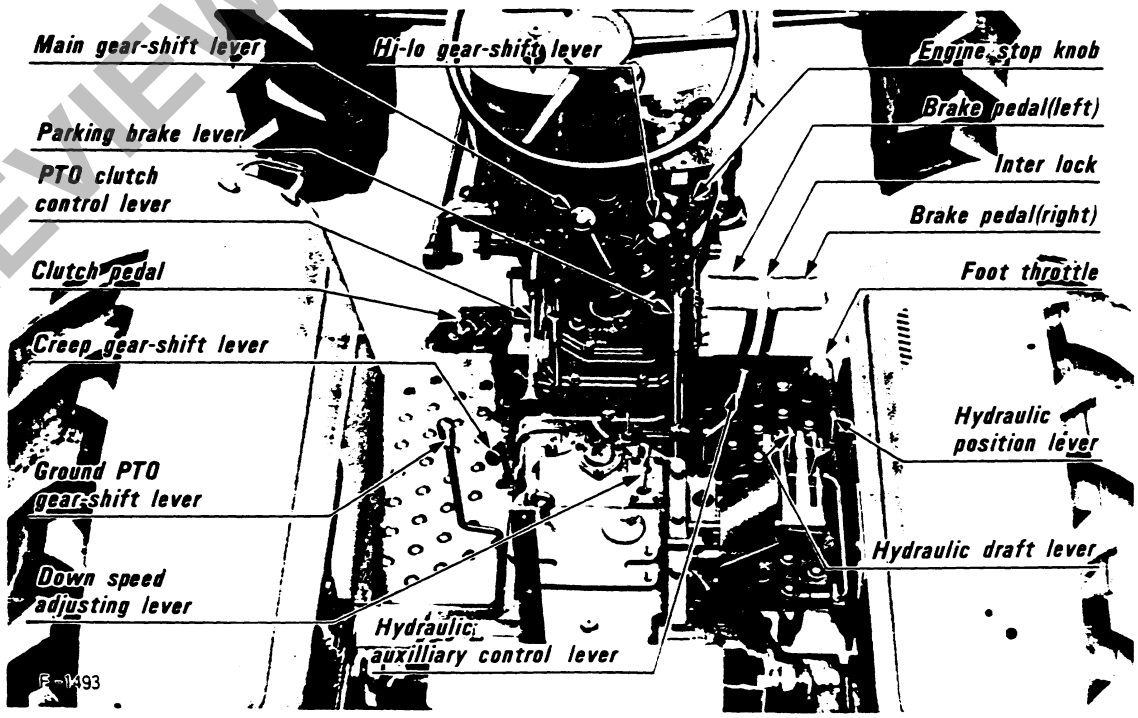
(2) If the lamp stays on even after the engine starts, immediately stop the engine, and check the regulator, fuse and relay fuse.
If the trouble cannot be located, contact your Kubota dealer.

■ PTO clutch indicator lamp (red)

The PTO clutch indicator lamp goes on when the PTO clutch is disengaged and goes off when the clutch is engaged.

2. CONTROLS





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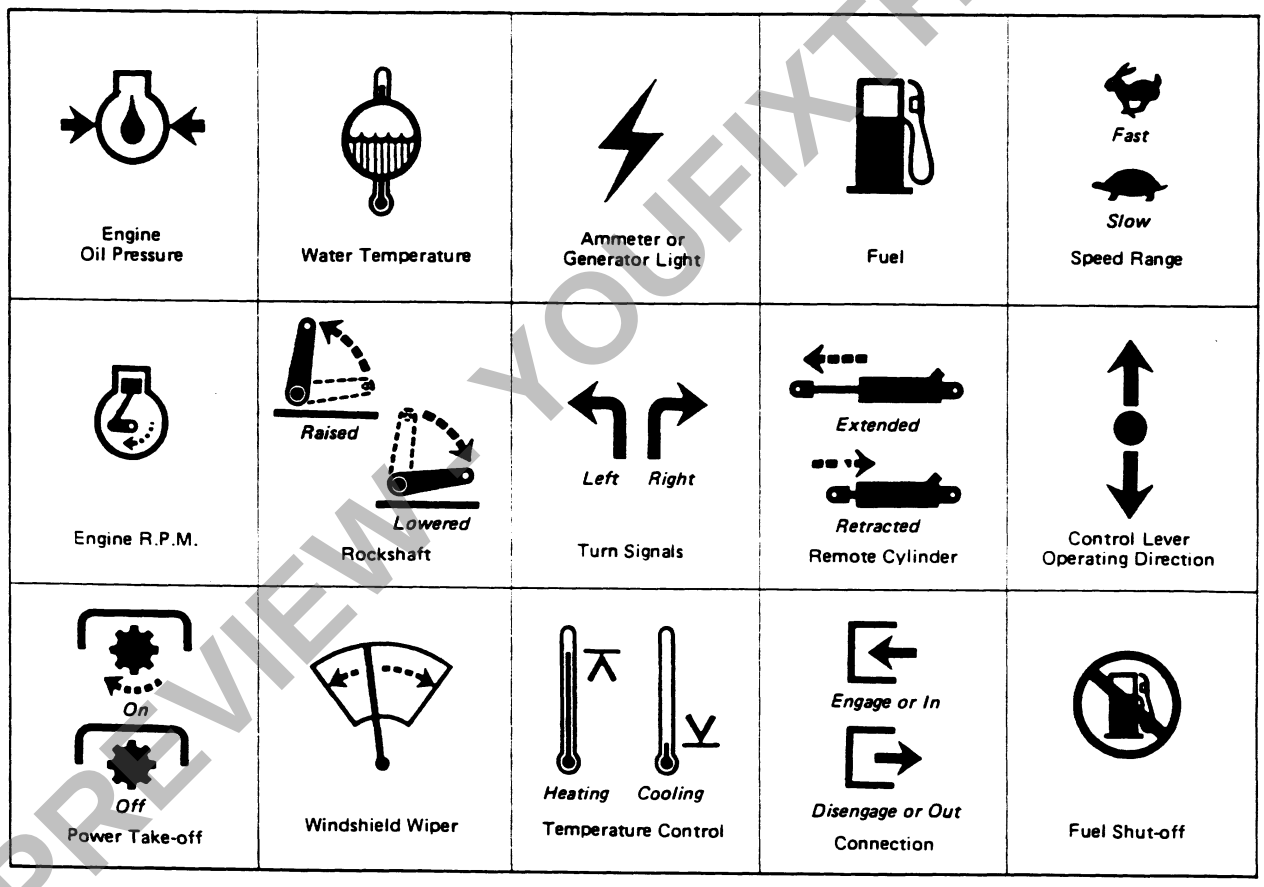
1. INTRODUCTION

This section contains information describing the correct operating procedures for all tractor controls and operating mechanisms. Do not operate the tractor until you have read this section carefully and understand its content. If you have any questions, contact your Kubota Dealer.
Throughout this section and the rest of the manual, you will find safety suggestions. These suggestions are intended to insure that no injuries occur while the tractor or attaching implements are being used. PAY ATTENTION TO THESE SAFETY SUGGESTIONS. SAFETY IS NO ACCIDENT.

2. WORLD WIDE GRAPHIC SYMBOLS

The facing page contains a chart showing worldwide graphic symbols which are used to identify operator controls on farm equipment throughout the world. Familiarize yourself with these symbols, many of which are used on the tractor to identify the instruments and controls.

WORLD WIDE GRAPHIC SYMBOLS



3. BREAK-IN PROCEDURES

While the tractor is new, during the first 60 hours of operation, observe the following break-in procedures. Adherence to these procedures will insure longer equipment life.

(1) Allow at least five minutes for engine warm-up before operating the tractor under a load.
(2) Do not operate the tractor at full throttle during the break-in period.
(3) Do not drive the tractor at high speeds.
(4) Avoid sudden starting and stopping.
(5) Change the engine oil and clean the oil filter 35 hours after first use. [M4500 (DT)]
(6) Change the engine oil and clean the oil filter 60 hours after first use. [M5500 (DT) · M7500 (DT)]
(7) Change transmission oil, and clean hydraulic oil filter 60 hours after first use.
(8) Change front axle case oil, front differential gear case oil and front bevel gear case oil 60 hours after first use. [DT-types]

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(2) TRANSMISSION OIL

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complte lubrication of the transmission it is important that only recommended oils be used in this system. The following are recommended oils, by brand name, that may be used in the transmission hydraulic system.

Allis Chalmers	821 Power Fluid
Atlantic Richfield (Arco)	Arco Tractor Fluid
Case	TCH
Chevron	Tractor Hydraulic
Exxon	Torque Fluid 56
Ford	M2C41 Tractor Hydraulic Oil
International	Hy Trans
John Deere	303, J14C
Massey	M1127 Fluid
Penzoil	Hydra-Trans and Wet Brake
Phillips	H. T. Fluid
Shell	Donax T-4
Texaco	T. D. H. Oil
Union	Hydraulic/Tractor Fluid
Valvoline	Uni-Trac

(3) POWER STEERING

The power steering system uses SAE 80/90 weight oil.

(4) FRONT WHEEL BEARINGS [Standard-types]

Lubricate the front wheel bearings with SAE lithium based grease.

(5) STEERING GEAR BOX

Lubricate the steering gear box with SAE 80/90W gear oil.

(6) CHASSIS GREASE FITTINGS

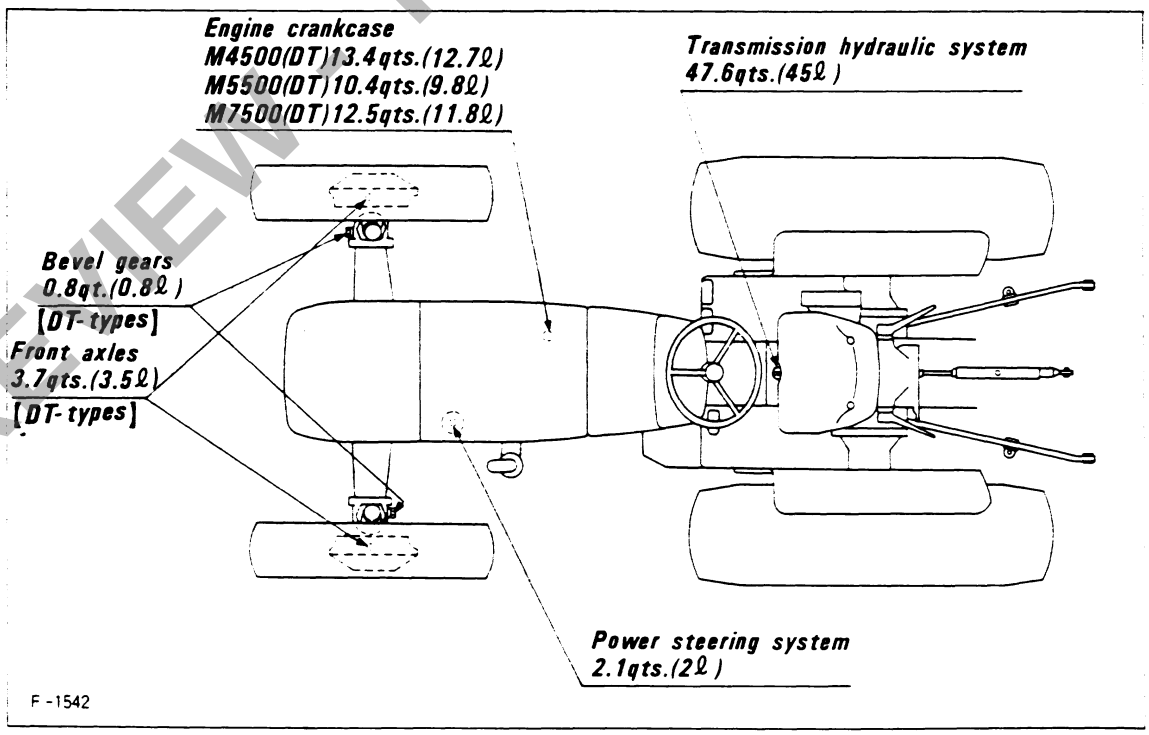
Lubricate the chassis grease fittings with lithium based grease. For location of chassis lubrication points see service section of this manual.

(7) FRONT WHEEL DRIVE UNIT [DT-types]

Lubricate front differential and bevel gears with SAE 80/90 weight gear oil.

(8) LUBRICANT CAPACITY CHART

Component	Capacity		
	M4500(DT)	M5500(DT)	M7500(DT)
Engine crankcase	13.4 qts. (12.7 ℓ)	10.4 qts. (9.8 ℓ)	12.5 qts. (11.8 ℓ)
Transmission hydraulic system	47.6 qts. (45 ℓ)		
Power steering system	2.1 qts. (2 ℓ)		
Steering gearbox	0.5 qt. (0.5 ℓ)		
Front wheel drive unit [DT-types]			
Differential	3.7 qts. (3.5 ℓ)		
Bevel gears	0.8 qt. (0.8 ℓ)		
Front axles	3.7 qts. (3.5 ℓ)		



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Routine maintenance is based on operating hours as indicated by the engine hour meter located on the face of the tachometer. The hour meter shows the accumulated operating time for the engine. The hour meter is designed to register one hour of operating time for each hour of engine operation at 2200 RPM. Engine operation at less than 2200 rpm will result in an hour meter reading that is proportional to engine speed.

1. BREAK-IN PROCEDURE

Please refer to the operations section of this manual for operating instructions during break-in period.
Maintenance procedures during the break-in period consist of an engine oil and filter change at 35 hours and a transmission/hydraulic oil and filter change (and if your tractor is equipped with four wheel drive an oil change of the front differential oil) at 50 hours.
Since the tractor is new and you are unfamiliar with the operation of the machine it is suggested that you make careful visual inspections of the entire machine prior to operating the tractor during the break-in period.

2. LUBRICATION INTERVALS DURING BREAK-IN PERIOD

■ Engine oil

Change the engine oil and engine oil filter at the end of 35 hours of operation. If it becomes necessary to add engine oil during the break-in period add correct wt. oil.

■ Transmission/hydraulic system oil

Change the transmission/hydraulic oil and oil filter at the end of the first fifty (50) hours of operation. If it becomes necessary to add large quantities of oil to the transmission/hydraulic system prior to the first oil change, drain all oil in the system and replace with new oil of specified weight and grade.

3. OTHER CHECKS DURING BREAK-IN PERIOD

Check the following during the break-in period (first sixty hours of operation).

(1) Tighten all wheel lug bolts after the first eight hours of operation. If the tractor is equipped with a front loader, check the front lug bolts for tightness every forty (40) hours of operation throughout the operating life of the tractor.
(2) Tighten the mounting bolts on the front and rear wheel weights, the front weight frame and front weights after the first eight hours of operation.
(3) Check the tractor daily for water or oil leaks.
(4) Make sure tractor is greased. Be sure you are familiar with all chassis grease points. See the lubrication and service time chart for location of lubrication points.
(5) Check all oil levels twice daily. Add oil if necessary.
(6) Observe the instruments at regular intervals during operation.

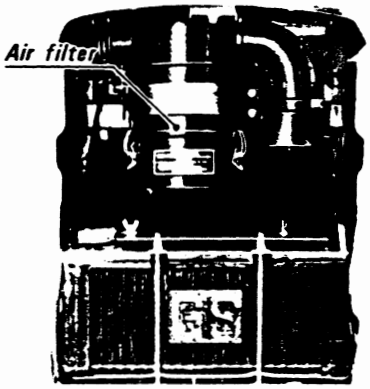
4. SERVICE AND LUBRICATION INTERVALS

Recommended service and lubrication intervals are based on service requirements for a tractor being used under average operating conditions. If your tractor is being operated under severe operating conditions (such as extreme dusty conditions, frequent starting and stopping of the engine, operation in extreme temperature conditions, etc.) it may be necessary to perform various service procedures more frequently than is recommended. Under no circumstance should the suggested service intervals be extended beyond those recommended in this manual.
Careful adherence to the suggested service procedures and service schedules will insure trouble-free and safe machine operation and promote machine longevity.

5. PERIODIC SERVICE PROCEDURES

■ Cleaning the air filter

The KUBOTA tractor is equipped with a dry element air filter. The air filter is located in front of the radiator behind the sheet metal grille at the front of the tractor.



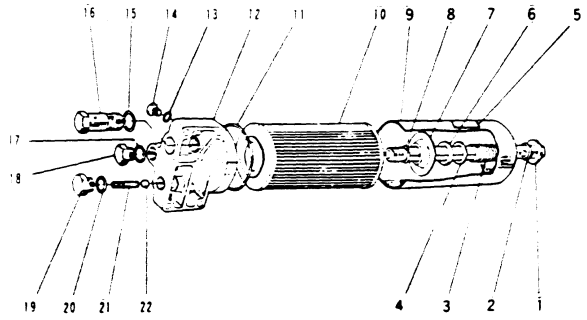
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The air filter element should be cleaned on a regular basis. The frequency of cleaning should correspond with the severity of the conditions under which the tractor is being operated; that is, the filter must be cleaned frequently if the tractor is being operated in extremely dusty conditions.
The air filter is equipped with a restriction indicator which, through the use of a colored indicator, indicates when the filter is clogged and in need of cleaning. Whenever the bright orange indicator comes into full view, the air filter element must be cleaned immediately. Other indicators of a clogged air filter are the loss of engine power, excessive exhaust smoke and increased fuel consumption. If the tractor displays any of these operating characteristics, stop the engine immediately and check the air filter.

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(3) The engine oil level will decrease by the amount of oil which flows into the oil filter (2) after its reassembly and reattachment to the engine. It is thus necessary to fill the filter with engine oil before reattaching it to the engine. It is also necessary after reattaching it to run the engine to check for any trouble with engine parts and hydraulic pressure, and to see if the engine oil reaches the prescribed level, after the engine stops, and add oil if necessary.

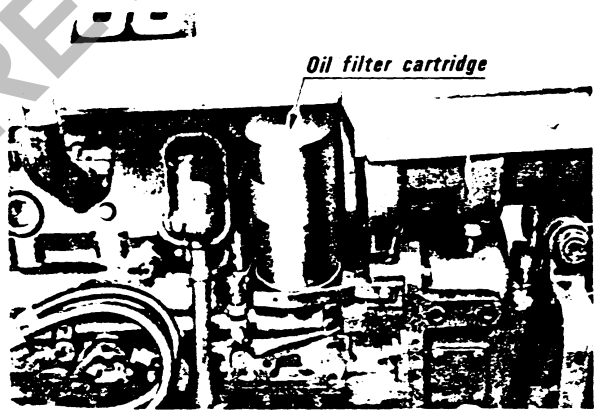


Oil Filter (2)

(1) Center pipe
(2) Center pipe packing
(3) Element spring
(4) Washer (small)
(5) Name plate
(6) Felt packing
(7) Washer (large)
(8) Cir-clip
(9) Body
(10) Oil strainer element
(11) Oil strainer cover packing
(12) Oil strainer cover
(13) Packing
(14) Plug (small)
(15) Pressure regulator valve packing
(16) Relief valve
(17) Packing
(18) Plug (large)
(19) Escape valve plug
(20) Packing
(21) Escape valve spring
(22) Escape valve

[M5500(DT)]
[M7500(DT)]

The oil filter used is a cartridge type. If it becomes clogged, the by-pass valve is actuated (1.2 to 1.6kg/cm^2) to calculate oil. However, oil is not filtered, and trouble may occur. Be sure to replace cartridges every two oil changes or within 400 hours.



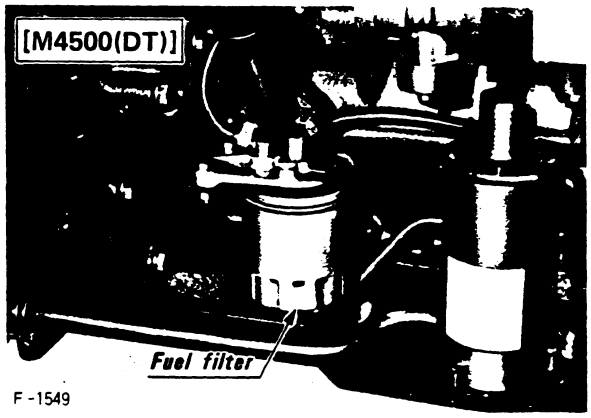
6. FUEL SYSTEM MAINTENANCE

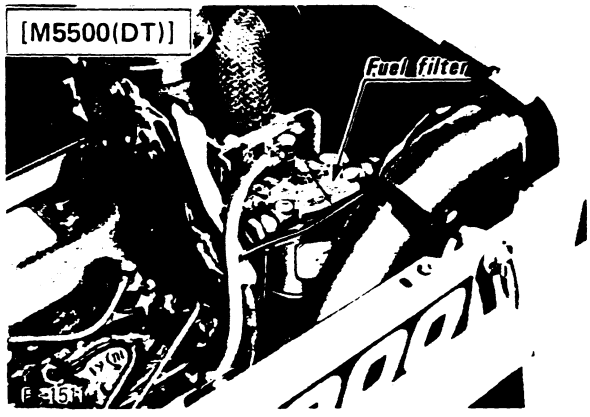
■ Fuel filter

(1) REPLACING THE FUEL FILTER

The fuel filter should be replaced every 200 hours of operation. Use of contaminated fuel may require more frequent fuel filter replacement. To replace the fuel filter, close the fuel petcock at the fuel tank. Using the filter wrench provided with the tractor, unscrew and remove the filter. Install a new filter and tighten the filter by hand only. Open the fuel tank petcock and bleed the fuel system to remove trapped air. Run the engine and check for fuel leaks.







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