1. General Notices for Safety

1-1. Before using the tractor



※ Have to read and understand this Operator's manual carefully and always refer to information and prescriptions outlined in this manual to prevent all potential health and safety risks.

◆ General information for intended use

- Your tractor is designed and manufactured to pull, to carry, to supply the power a variety of mounted or towed equipment **for agriculture**. Do not use the product for other purposes than intended by the manufacturer and outlined in this manual. Do not use this tractor for light/heavy forestry applications.
- Do not use the product beyond its **limits of terrain gradient** and stability than outlined in this manual. Using the tractor beyond these limits may cause a overturning accident.
- Do not use the tractor on higher speeds than allowed by the load of the tractor and road condition. Always choice **a suitable driving speed** to maintain the stability of the tractor.
- Do not use the tractor **near or on soft verges** of canals and brooks or banks and verges that are undermined by rodents. The tractor may sink sideways and roll-over.
- Do not use the tractor on brittle bridge heads and poor bridge floors, These constructions may collapse and cause overturning of the tractor. **Always check out the condition and carrying capacity of bridges and ramps** prior to engage.
- **Do not use the tractor without wearing the seat belt and Roll-Over Protective Structure (ROPS)** during operations where roll-over or tip-over hazards exist. The ROPS will only be fully effective when the driver remains attached to his seat.
- Do not use equipment mounted on the tractor which is not **correctly matching and firmly fixed**. Such equipment may increase the risk for roll-over and hit the tractor when coming loose.
- Do not use the tractor in combination with equipment arbitrary, without **having consulted the specific operator's manual provided with the equipment**. This manual alone cannot provide you with all the information about safety operation of the combination.
- Do not use the tractor beyond its **limits of dynamic stability**. High speed, abrupt maneuvers, and fast and short cornering will increase the risk of roll-over.
- Do not use the tractor for **overloaded pulling work**, in cases where you don't know if the load will yield, for instance when pulling stumps. The tractor may flip over when the stump is not yielding.
- Be extremely cautious when working with the tractor **on forage silos without lateral concrete walls**. A wide track setting may improve the lateral stability of the tractor.
- Be cautious that the **center of gravity of the tractor may increase** when the front-end loader is loaded or the three-point linkage are raised. In these conditions, the tractor may roll-over earlier than expected.
- **Do not step down from the tractor without shutting down the PTO, shifting the transmission to neutral and applying the parking brake.**

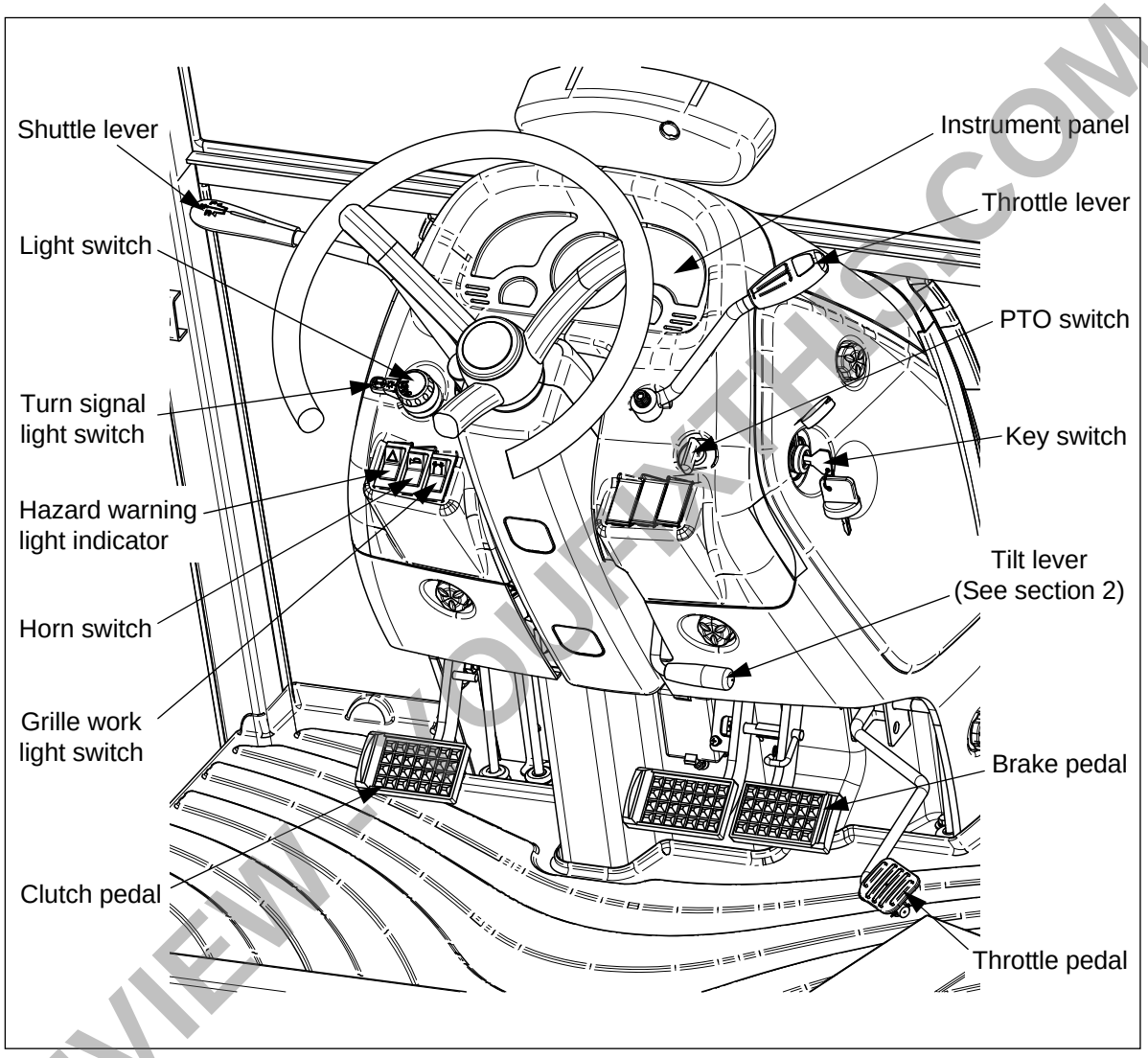
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3. Instruments and Controls

3-1. Instrument panel and Front controls

Important to owner, read carefully

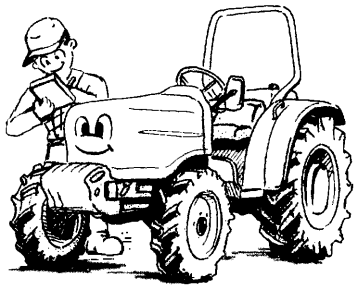


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4. Operation and Work

4-1. Engine start and stop



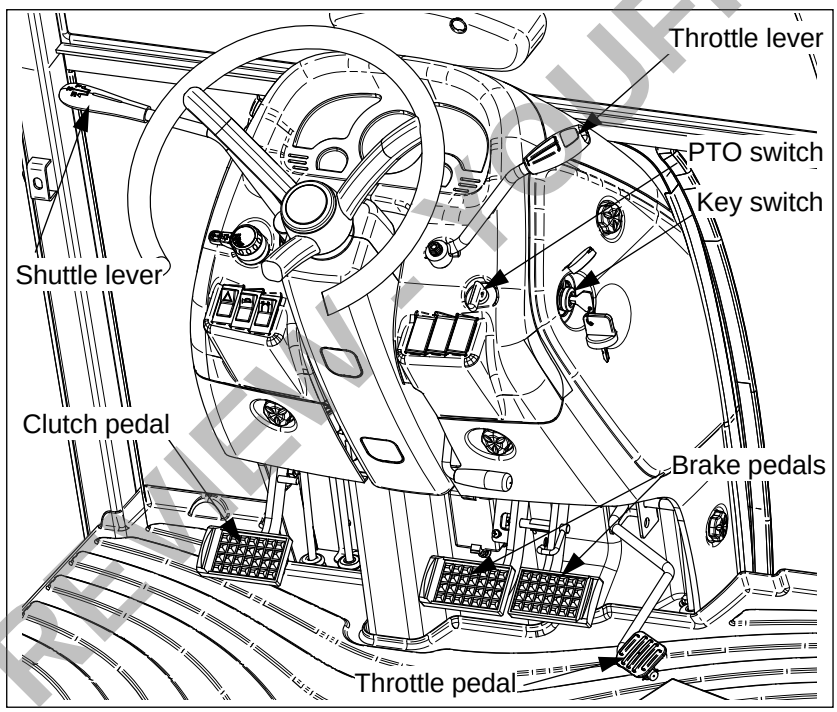
⚠ Caution	▶ Check each part before starting engine. ▶ Check if there is some other people around the tractor before starting. ▶ Place the lever and switch in **NEUTRAL** or **OFF** position.

(1) Engine start

1. Sit in the driver's seat and check if the parking brake is applied.

2. Place the main gear shift, range gear shift lever, shuttle lever in **NEUTRAL** and PTO switch in **OFF** position.

3. Pull the throttle lever to the middle position of full throttle.



4. Turn the key switch to ON and check if engine oil pressure indicator, battery charging indicator, cold start aid indicator is ON.

5. Wait until the cold start aid indicator is OFF. (about 10 seconds)

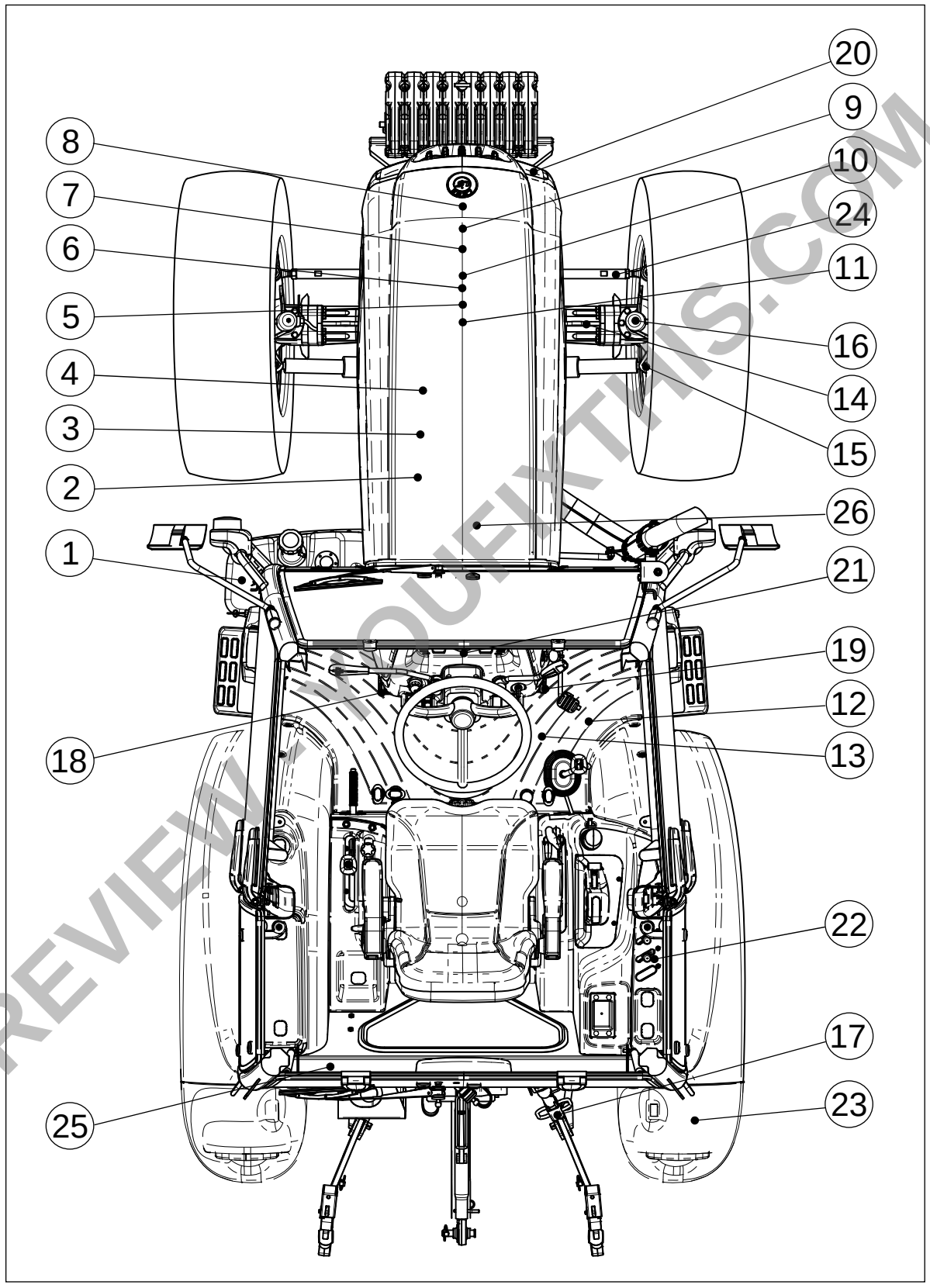
6. Depress clutch pedal fully and turn key switch to **START** position. As soon as the engine has been started, release the key switch to go to the ON position.

7. Check if the engine oil pressure indicator, battery charging indicator is OFF.
If any of these lights is ON, stop the engine immediately and check.

8. Run engine for a few minutes to allow the engine oil and transmission oil to warm up.

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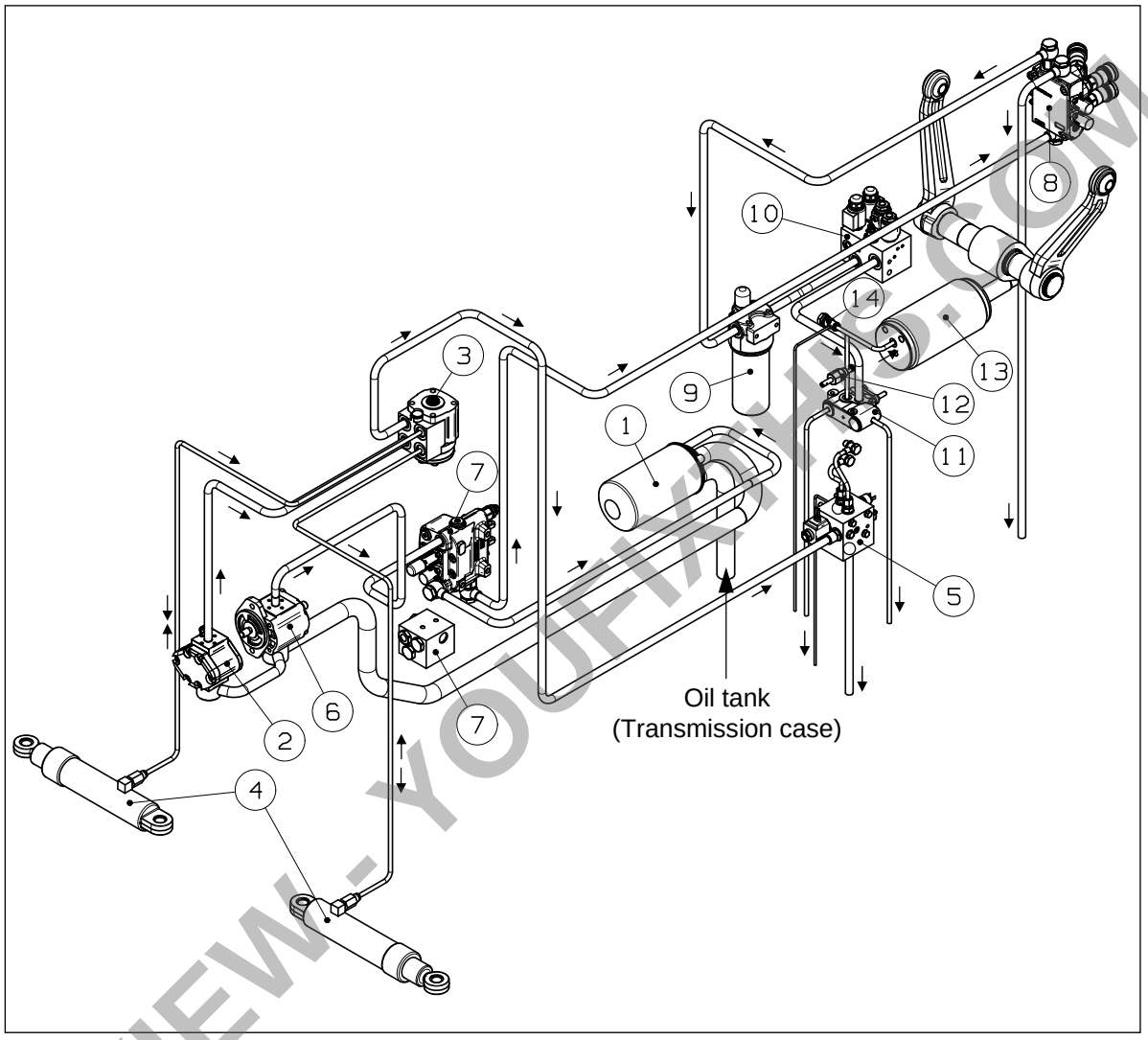
5-2. Maintenance chart



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(7) Hydraulic System Diagram



1. Hydraulic oil filter
2. Steering pump
3. Power steering unit
4. Steering cylinders
5. Independent PTO valve
6. Hydraulic lift pump
7. Front loader valve
   Front outlet valve (optional)
8. Remote control valve
9. In-line filter (optional)
10. Auto leveling valve (optional)
11. Hydraulic lift control valve
12. Drop speed control valve
13. Hydraulic lift cylinder
14. Safety valve

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5-12. Troubleshooting

⚠ Warning	▶ To avoid injury due to sudden start, apply parking brake and place the transmission gear in NEUTRAL position before checking and repairing.

System	Faults	Possible causes	Solutions
Engine	The start motor does not turn when turning the key switch.	▲ Start safety switch is not contacted. ▲ PTO switch is not on OFF position. ▲ Discharge of battery ▲ Terminal loosened ▲ Key switch failure ▲ Start motor failure	▲ Depress the clutch pedal fully ▲ Place PTO switch on OFF position ▲ Charge or replace ▲ Tighten ▲ Repair or replace ▲ Repair or replace
	The start motor turns but the engine does not start.	▲ The battery is weak ▲ bad ground ▲ Improper viscosity of engine oil ▲ Air in fuel system ▲ Fuel filter clogged ▲ Error in engine body ▲ Fuel cock closed	▲ Charge or replace ▲ Tighten the ground ▲ Replace the oil with proper viscosity. ▲ Bleed the air ▲ Wash or replace the filter ▲ Repair ▲ Open the cock
	Engine revolution is irregular.	▲ Air in fuel system ▲ Fuel filter clogged ▲ Injection nozzle clogged ▲ Fuel leakage ▲ Irregular fuel injection	▲ Bleed air ▲ Clean or replace the filter ▲ Repair or replace ▲ Repair ▲ Repair
	Engine turns more than maximum speed.	▲ Impurities in governor	▲ Repair
	Engine stops suddenly during operation.	▲ Fuel shortage ▲ Fault of nozzle ▲ moving parts failure due to bad lubrication	▲ Add fuel and bleed air. ▲ Repair or replace ▲ Repair

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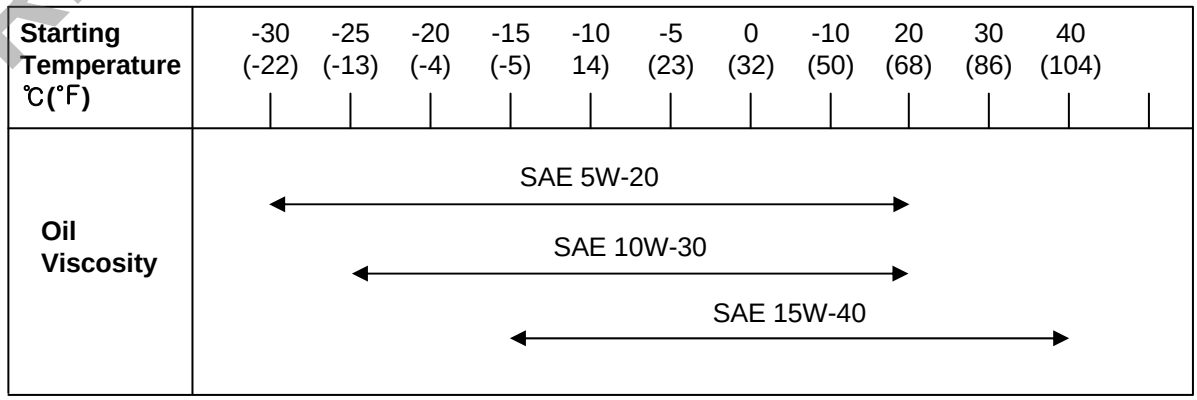
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5-3. Lubricants and Capacity

LUBRICANTS	CAPACITY	INTERNATIONAL STANDARD	RECOMMENDED ITEMS
Engine coolant (Radiator)	9.0 ℓ (2.4U.S.gals)	ASTM D5216	Soft water (50%)+ Anti-freeze (50%)
Fuel	60 ℓ (15.9U.S.gals)	ASTM D975 No.2	Low Sulfuric Diesel Fuel
Engine oil (crankcase)	7.0 ℓ (1.8U.S.gals)	API CF-4, CG-4 Winter : 10W/30 Summer : 20W/40 Spring/ Fall : SAE 15W/40, SAE 20	Case IH 5L – E175325 20L – E175326 205L – E175328
Transmission oil (common use for Hydraulic lift, hydraulic steering device)	47 ℓ (12.4U.S.gals)	API-GL4 ISO VG 46/68	Hy-Trans
Front axle oil	10 ℓ (2.6U.S.gals)	API-GL4 SAE 80W	Hy-Trans
Grease (Front axle arm holder, Steering cylinder pin, 3-point linkage)	Proper amount	NLGI 2	AkcelA EP2 365608A1

RECOMMENDED OIL VISCOSITIES

The correct engine oil viscosity grade is dependent upon ambient temperature. Refer to the chart below when selecting oil for your tractor engine.
In areas where prolonged periods of extreme temperatures are encountered, local lubricant practices are acceptable ; such as the use of SAE 5W 30 in extreme low temperatures or SAE 50 in extreme high temperatures.



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(5) Engine coolant

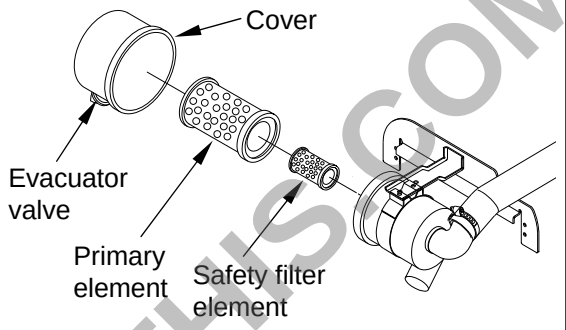
- Refer to " Replacement of Engine coolant " *(See page 5-22)*

(6) Air cleaner (Dry type)

① Cleaning filter element

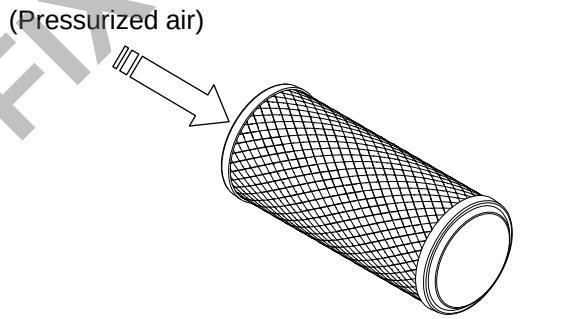
- Remove the cover and pull the primary element straight out, ensuring the safety filter element remains in place. (Fig. 1)
- When cleaning the element in the working field, tap the element by hand to remove the dust

Notice	▶ Do not tap the element on a hard place when cleaning. ▶ If the element is cracked, change it with new one.



<Fig. 1>

- If the dust is not removed by tapping, use compressed air (less than 500kPa (5bar; 72psi)) from inside to outside as shown in the right figure to remove the dust and foreign materials. And clean inside the filter element with a clean damp cloth.



Notice	▶ Do not assemble a wet filter element. ▶ Do not dry the wet filter element by using the compressed air. ▶ Do not start the engine if air filter element is not assembled.

② Assembling filter element

- Clean the inside of the air cleaner housing using a clean damp cloth, taking care not to damage the safety element.
- Check if there is damage inside filter element by using a light. If there is tiny crack or small hole in the filter element or the gasket is damaged, replace it with a new one.
- Insert the filter element by pushing it deeply into the filter housing.
- Remove the dust of the evacuator valve and clean the inside of the cover.
- Assemble the cover with the evacuator valve placed downward.

Notice	▶ Do not start the engine or close the hood if the filter element is not assembled.

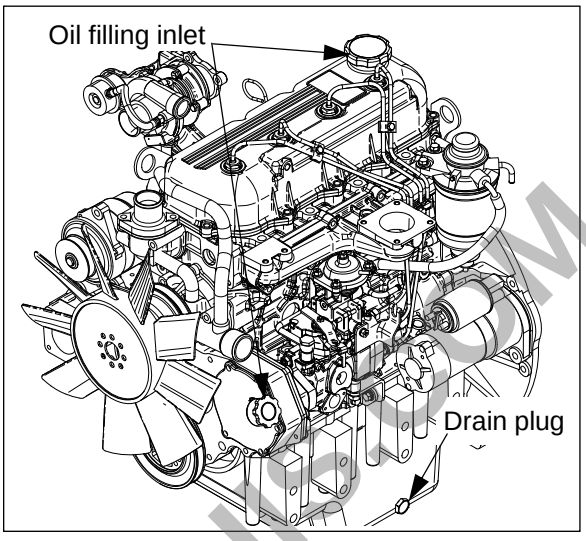
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5-8. Every 300 hour check

(1) Replacing Engine oil and Filter

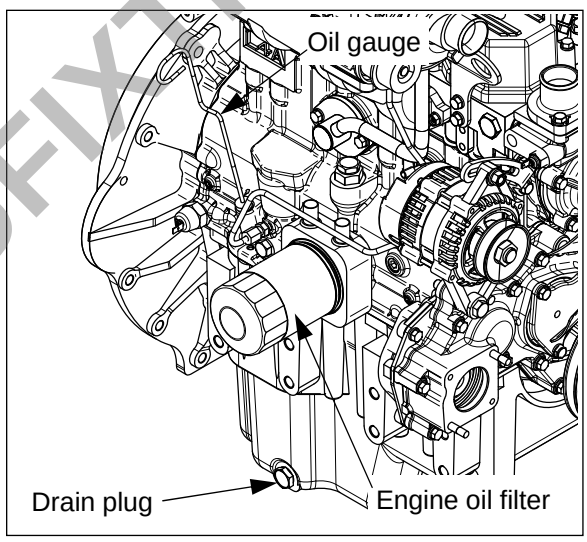
① Drain Engine oil



- Run engine for a few minutes to warm oil
- Park the tractor on a level surface.
- Remove drain plug of oil pan and drain the oil completely.

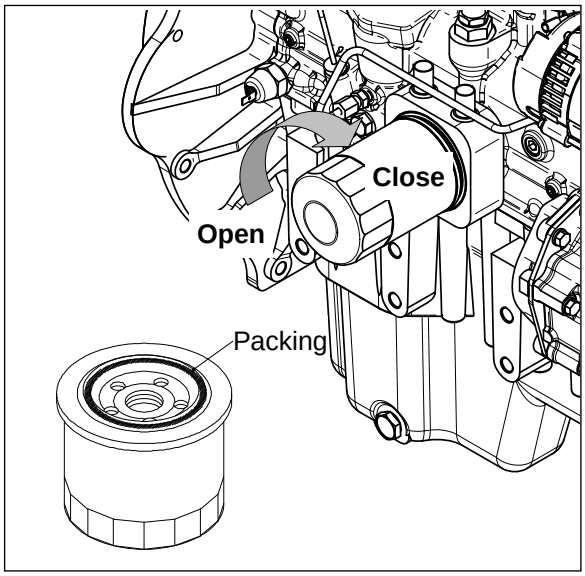
Notice	▶ When engine oil is warm, the impurities can be drained completely.

② Replace Engine oil filter



- Clean carefully around the filter.
- Coat clean engine oil on the packing of new filter and check the packing is placed well in the groove.
- Turn the oil filter counter-clockwise to remove with filter wrench.
- Turn the new filter clockwise to assemble until the packing makes contact with the mounting surface. Tighten ¾ to 1 turn more after packing contact.
- If the metal is attached to the element of oil filter to be disassembled, contact your authorized dealer.

③ Fill Engine oil

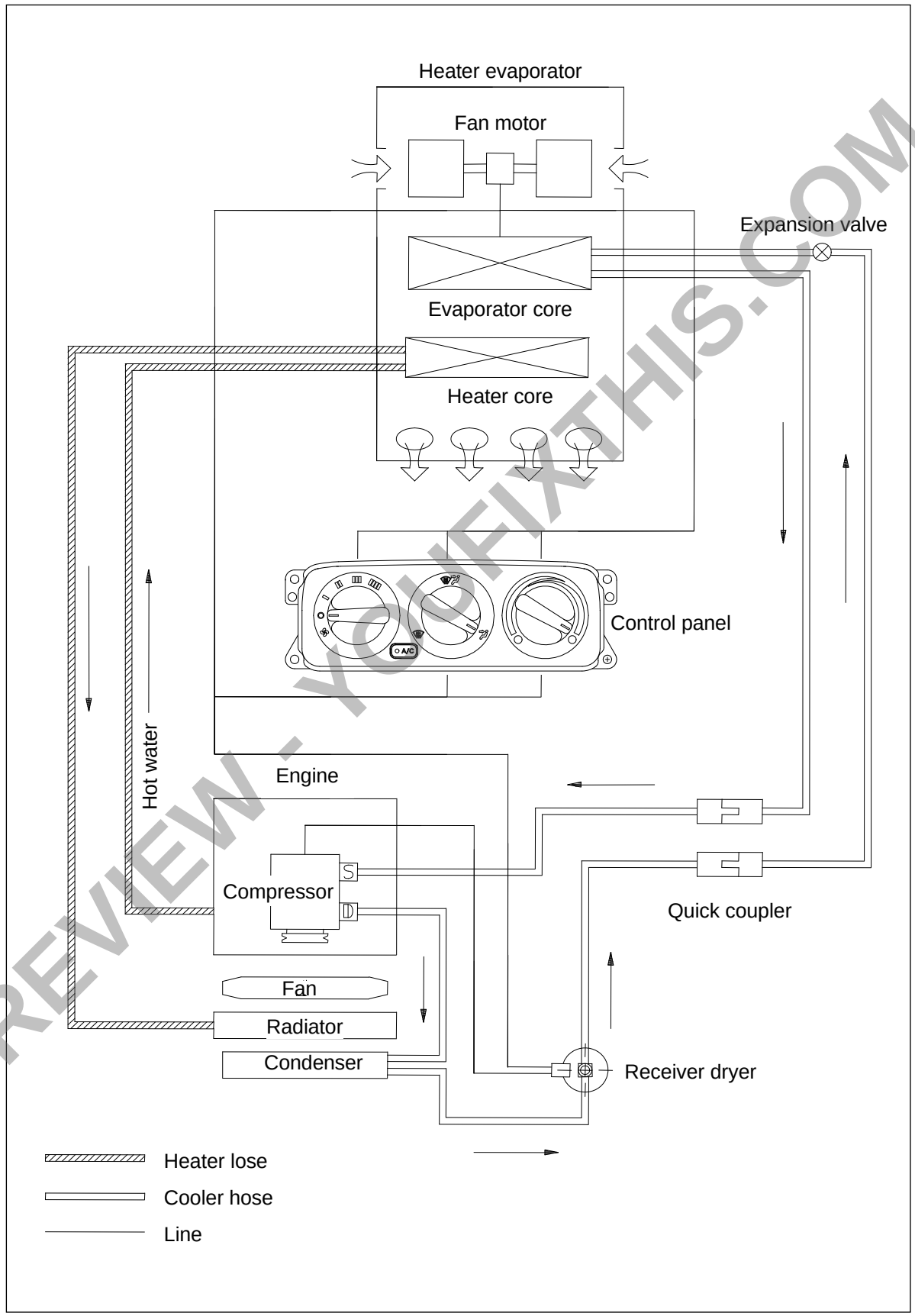


- Tighten the drain plugs. (Tightening torque : 40±5 N.m) (29.5±5 lbs-ft)
- Add engine oil as its capacity and check the oil level is between MIN and MAX mark on gauge. For oil specification, refer to “Lubricants and Capacity” at the end of this manual.
  (or See page 5-4)
- Check any leakage of the engine while running the engine for several minutes at idle rpm.
- Stop the engine. After about 5~10 minutes later, check again if the oil level is between MIN and MAX mark.
- Install the oil gauge.

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6-6. System diagram



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4-3. How to handle new tractor

(1) Check points

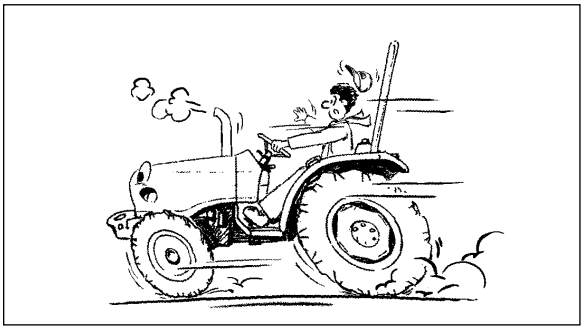
※ For new tractor, the following must be checked once again even though there was sufficient quality management, inspection, regulating of each part in the factory.

- Appearance check
  - Is there any damage while transporting?
- Engine cooling system check
  - Is there anti-freeze solution in the radiator? And any leakage?
- Fuel system check
  - Is there any leakage of fuel in the fuel system?
- Oil level check
  - Is there optimal oil amount in each part ?
- Electric system check
  - Is there any cut-off or any other problem in the wiring?
  - Is there any problem to operate the instruments?
  - Is the state of battery charging sufficient?

(2) Notices in handling new tractor

- To get the best performance, comply with the following.

  - DO NOT start or stop the tractor suddenly.
  - DO NOT carry out heavy loaded work and DO NOT increase the engine rpm to high speed suddenly.
  - Despite warm temperature outside, carry out warming up the engine for approximately 5 minutes at 1500 rev/min



- After using first 50 hours,

  - Replace the engine oil filter and hydraulic oil filters after first 50 hours of work, and check each part of your tractor as reference of chapter 5. “Lubrication and Maintenance” (*See section 5-4 in this manual*.)
  - If possible, contact your authorized dealer for “First 50 hour check”.

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