# MAXXFARM 40,50

## Operator’s Manual

**52105404**

CASE IH AGRICULTURE

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# 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.**



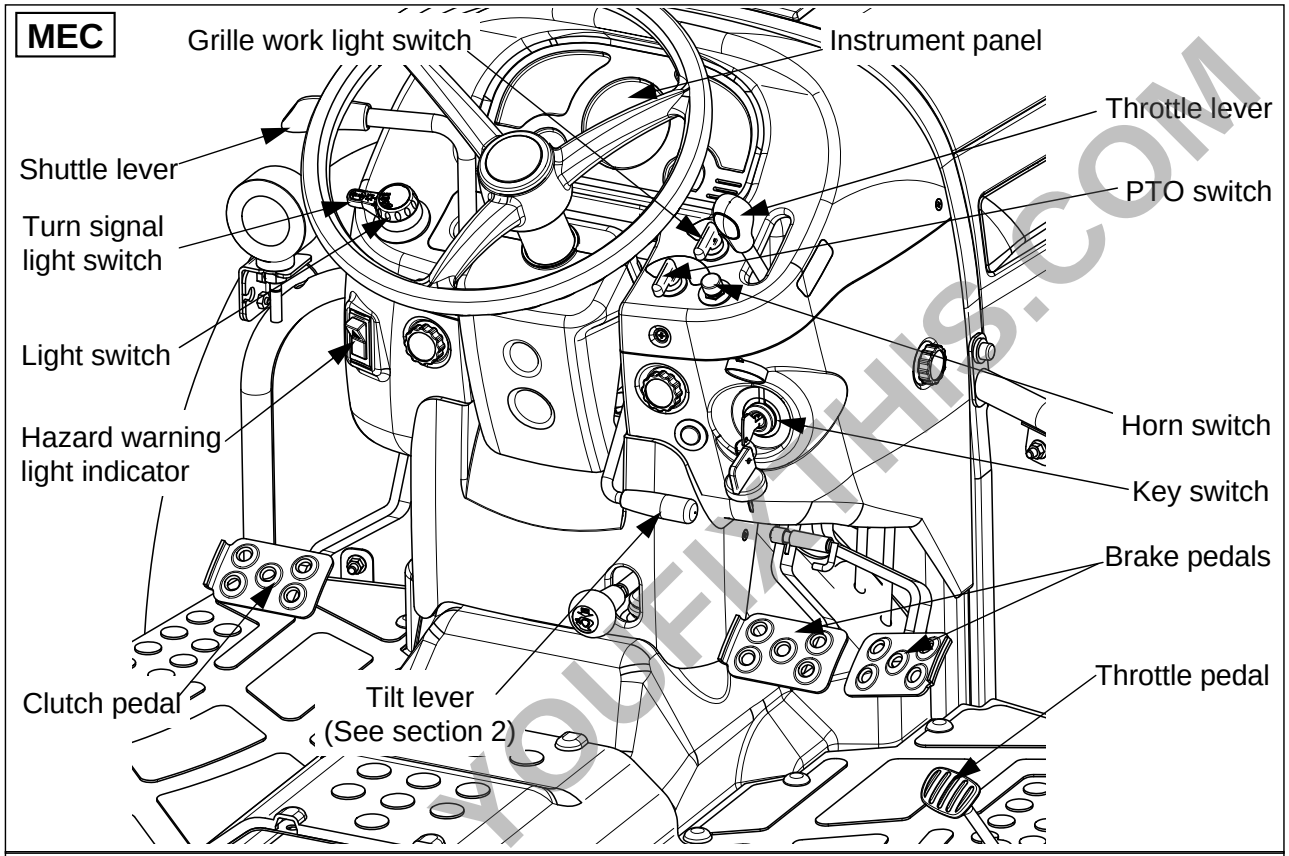
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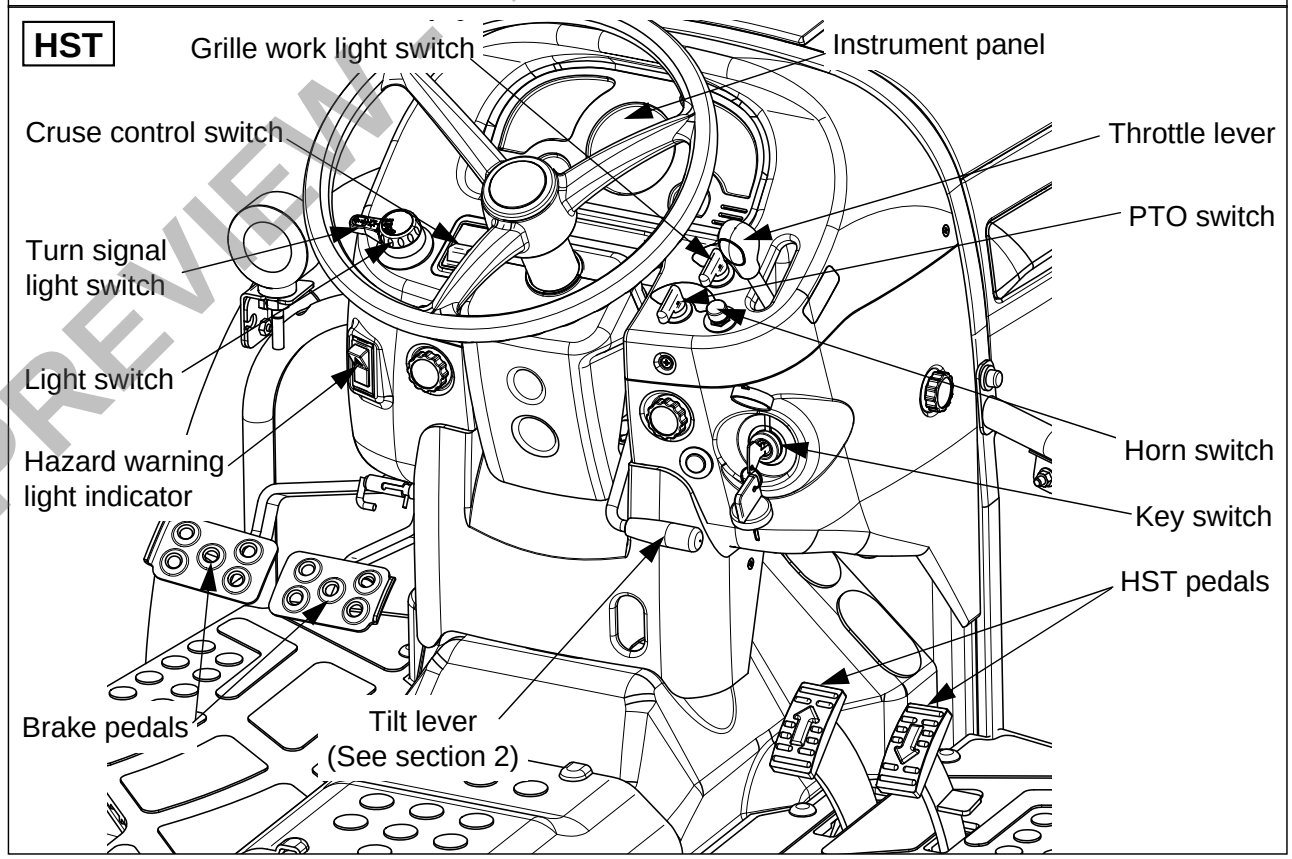
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# 3. Instruments and Controls

## 3-1. Instrument panel and Front controls

### Important to owner, read carefully



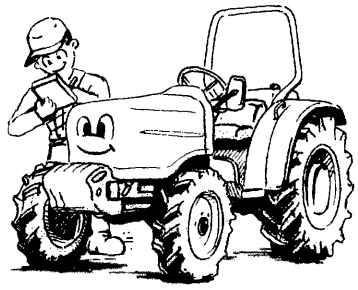

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# 4. Operation and Work

## 4-1. Engine start and stop



| ⚠Caution | ▶Check each part before starting engine.<br>▶Check if there is some other people around before starting.<br>▶Place all the levers and switches in NEUTRAL or OFF position. |
|---|---|

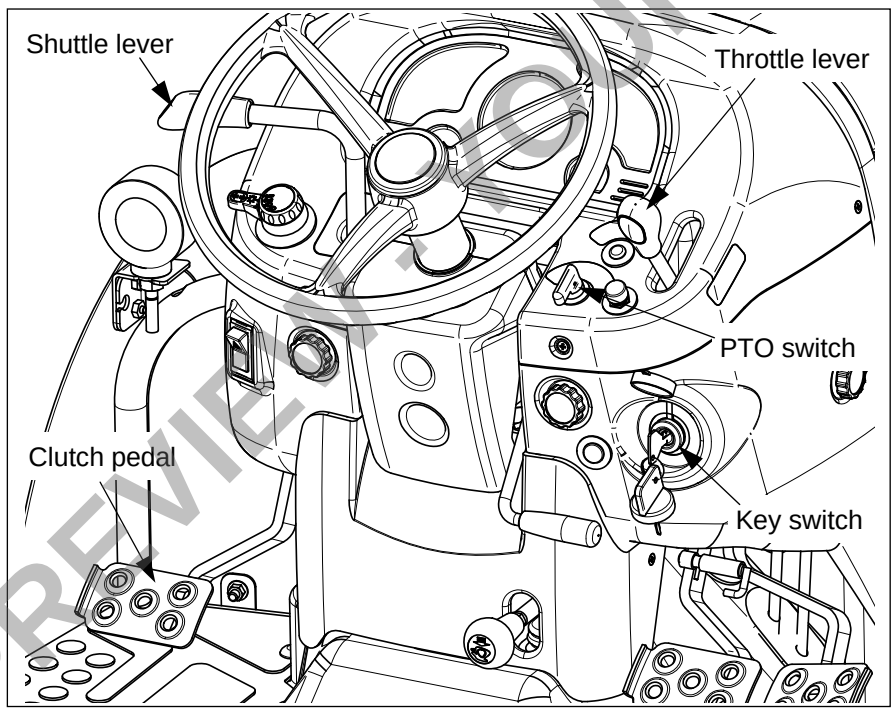
### (1) Engine start

**Mechanical type**

1. Sit in the driver's seat and apply parking brake lever.

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

3. Push the throttle lever to the middle position of the 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 cold start aid indicator is OFF. (about 10 seconds)

6. Depress the clutch pedal fully and turn the key switch to START position. As soon as the engine starts, release the key switch to ON position.

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

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



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## Mechanical type

| No. | Checking Parts | Page No. | Check period (hr) | | | | |
|---|---|---|---|---|---|---|---|
| | | | Daily | 50 | 300 | 600 | 2-year |
| 1 | Fuel tank | 5-10 | ▲ | | | | |
| 2 | Fuel filter | 5-24 | | | | ● | |
| 3 | Engine oil | 5-9, 5-19 | ▲ | | ● | | |
| 4 | Engine oil filter | 5-7, 5-19 | | ★ | ● | | |
| 5 | Engine coolant | 5-12, 5-25 | ▲ | | | | ● |
| 6 | Radiator screen | 5-13, 5-17 | ▲ | ■ | | | |
| 7 | Air cleaner | 5-12, 5-18, 5-21 | ▲ | ■ | ● | | |
| 8 | Battery | 5-18 | | ▲ | | | |
| 9 | Fan belt tension | 5-21 | | | ▲ | | |
| 10 | Valve clearance | 5-24 | | | | ▲ | |
| 11 | Nozzle injection pressure | 5-24 | | | | ▲ | |
| 12 | Hydraulic oil filter | 5-7, 5-20 | | ★ | ● | | |
| 13 | Transmission oil | 5-18, 5-23 | | ▲ | | ● | |
| 14 | Front axle oil | 5-18, 5-23 | | ▲ | | ● | |
| 15 | Steering cylinder | 5-17 | | ▲ | | | |
| 16 | Front axle holder & Steering arm | 5-17 | | ▲ | | | |
| 17 | 3-Point linkage | 5-17 | | ▲ | | | |
| 18 | Clutch pedal play | 5-14 | ▲ | | | | |
| 19 | Brake pedal play | 5-16 | ▲ | | | | |
| 20 | Turn signal lights, Lights, Horn | 5-11 | ▲ | | | | |
| 21 | Instrument panel & Indicators | 5-10 | ▲ | | | | |
| 22 | Bolts and Nuts | 5-14 | ▲ | | | | |
| 23 | Tire air pressure | 5-13 | ▲ | | | | |
| 24 | Toe-in | 5-22 | | | ▲ | | |
| 25 | Hydraulic hoses | 5-18 | | ▲ | | | |

★ First Replacement ● Replacement ▲ Check, Adjustment and Supply ■ Clean up



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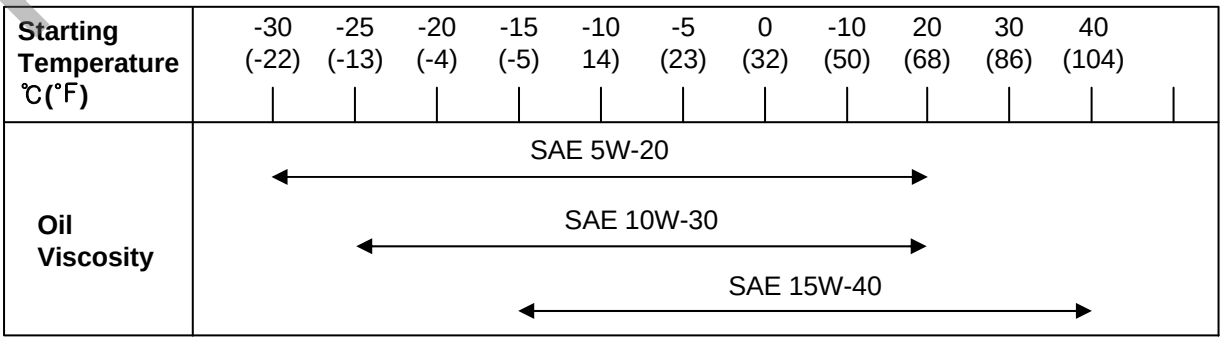
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# 5-3. Lubricants and Capacity

| Lubricants | Capacity | International Standard | Recommended products |
|---|---|---|---|
| Engine coolant (Radiator) | 6.1 L (1.6 U.S.gals.) | ASTM D5216 | Soft water (50%) + Anti-freeze (50%) |
| Fuel | Option: 36 L (9.5 U.S.gals.) 32 L (8.5 U.S.gals.) | ASTM D975 No.2 | Low Sulfuric Diesel Fuel |
| Engine oil (Crank case) | 7.0 L (1.9 U.S.gals.) | API CF-4 or CG-4 Winter : SAE 10W/30 Summer : SAE 20W/40 Spring/ Fall : SAE 15W/40, SAE 20 | Case IH 5L – E175325 20L – E175326 205L – E175328 |
| Transmission oil (common use for hydraulic lift and steering system) | 43 L (11.4 U.S.gals.) | API GL4 ISO VG 46/68 | Hy-Trans |
| Front axle oil | 8 L (2.1 U.S.gals.) | API GL4 SAE 80W | Hy-Trans |
| Grease (Front axle holder, Steering cylinder pin, 3-point linkage, etc.) | 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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# 5-12. 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.<br>▲ PTO switch is not in OFF position.<br>▲ Discharge of battery<br>▲ Terminal loosened<br>▲ Key switch failure<br>▲ Start motor failure | ▲ Depress clutch pedal fully<br>▲ Place PTO switch in OFF position<br>▲ Charge or replace<br>▲ Tighten the terminal<br>▲ Repair or replace<br>▲ Repair or replace |
| | The start motor turns but the engine does not start. | ▲ The battery is weak.<br>▲ Bad grounding<br>▲ Improper viscosity of engine oil<br>▲ Air in fuel system<br>▲ Fuel filter clogged<br>▲ Error in engine body<br>▲ Fuel cock closed | ▲ Charge or replace<br>▲ Tighten the ground<br>▲ Replace the oil with proper viscosity.<br>▲ Bleed the air<br>▲ Clean or replace the filter<br>▲ Repair<br>▲ Open the cock |
| | Engine revolution is irregular. | ▲ Air in fuel system<br>▲ Fuel filter clogged<br>▲ Injection nozzle clogged<br>▲ Fuel leakage<br>▲ Irregular fuel injection | ▲ Bleed air<br>▲ Clean or replace the filter<br>▲ Repair or replace<br>▲ Repair<br>▲ Repair |
| | Engine turns more than maximum speed. | ▲ impurities in governor | ▲ Repair |
| | Engine stops suddenly during operation. | ▲ Fuel shortage<br>▲ Fault of nozzle<br>▲ moving parts failure due to bad lubrication | ▲ Add fuel and bleed air.<br>▲ Repair or replace<br>▲ Repair |

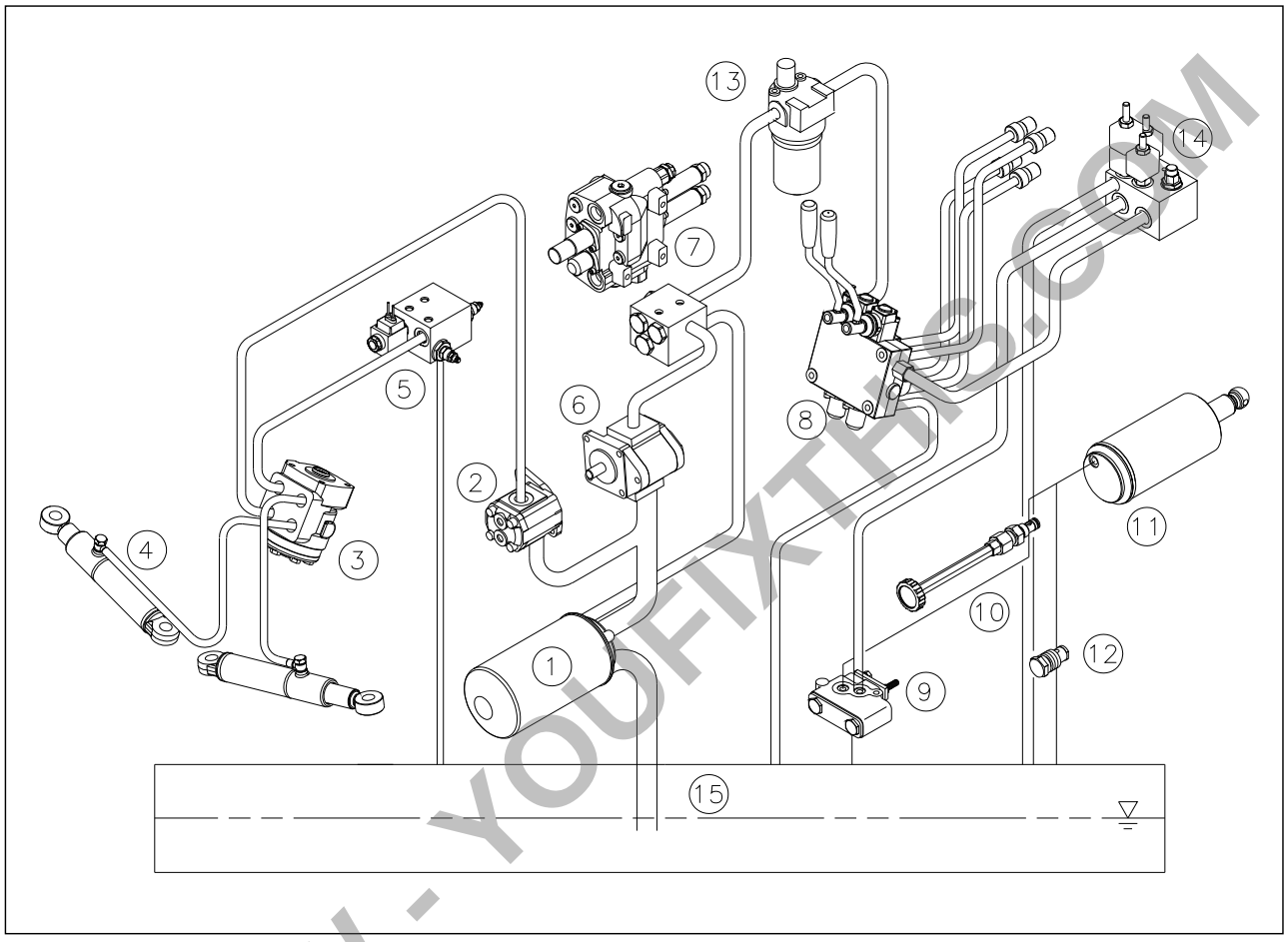
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## (7) Hydraulic System Diagram

### Mechanical type




1. Hydraulic oil filter
2. Steering pump
3. Steering unit
4. Steering cylinder
5. Independent PTO valve
6. Hydraulic lift pump
7. Front outlet valve
   Front loader valve (optional)
8. Remote control valve
9. Hydraulic lift control valve
10. Down speed control valve
11. Hydraulic lift cylinder
12. Safety valve
13. In-line filter (optional)
14. Leveling control valve (optional)
15. Oil tank (Transmission)

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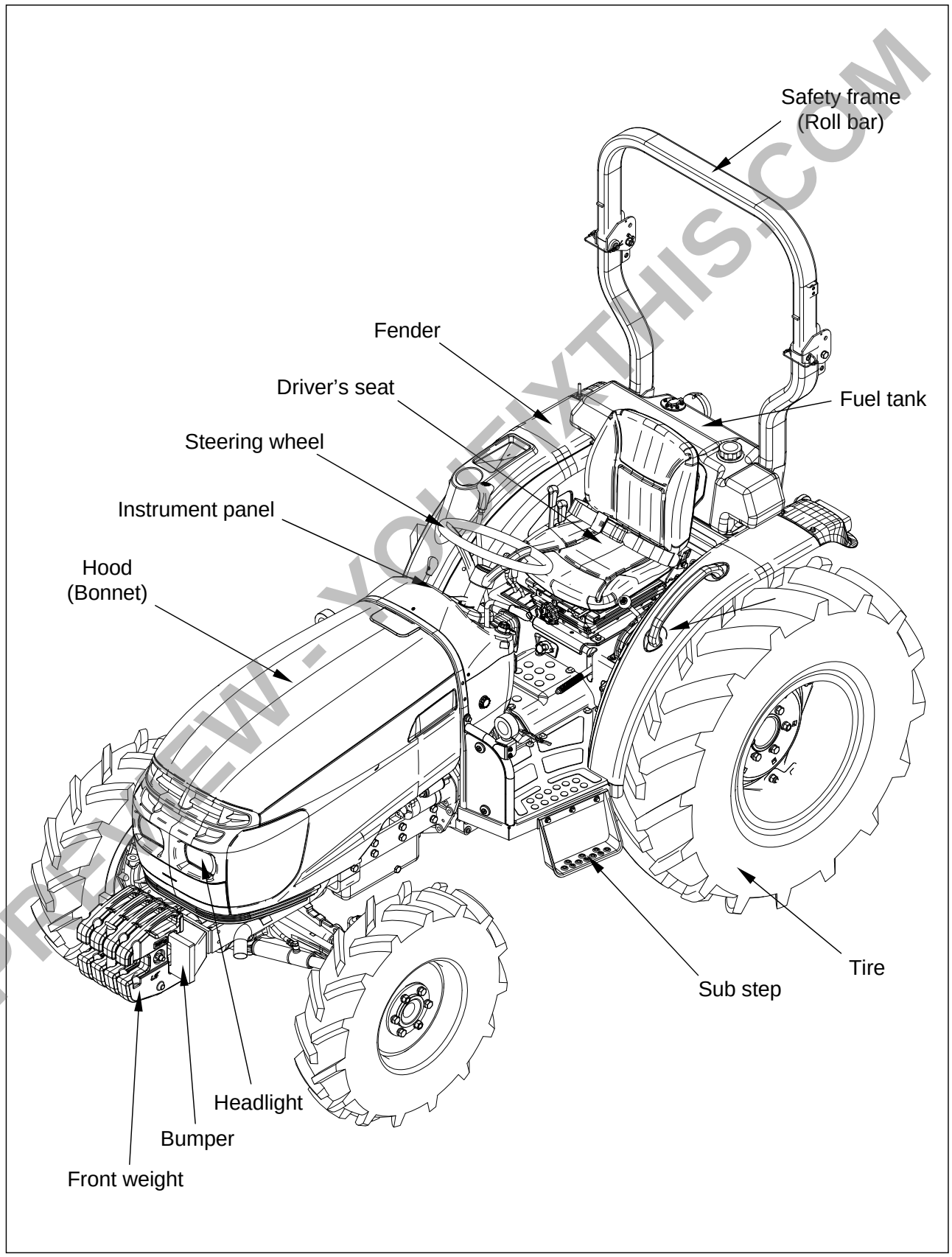


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# 2. Instruction for Safe operation

## (1) The name of each part

### ① Roll-Bar type




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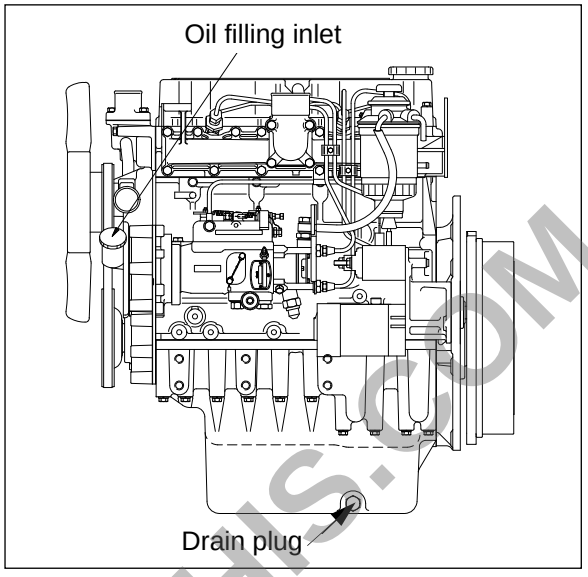
# 5-8. Every 300 hour check

## (1) Replacing Engine oil and Filter

### ① Drain Engine oil

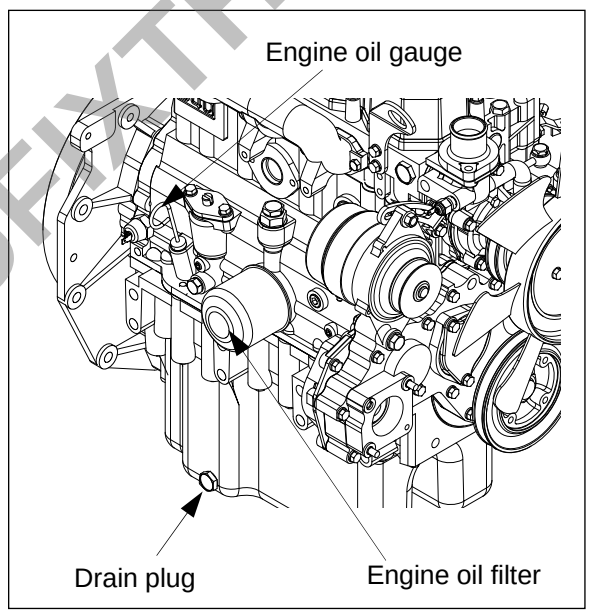
- Run engine for a few minutes to warm oil
- Park the tractor on a level surface.
- Remove drain plug of oil pan and drain the oil completely.

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



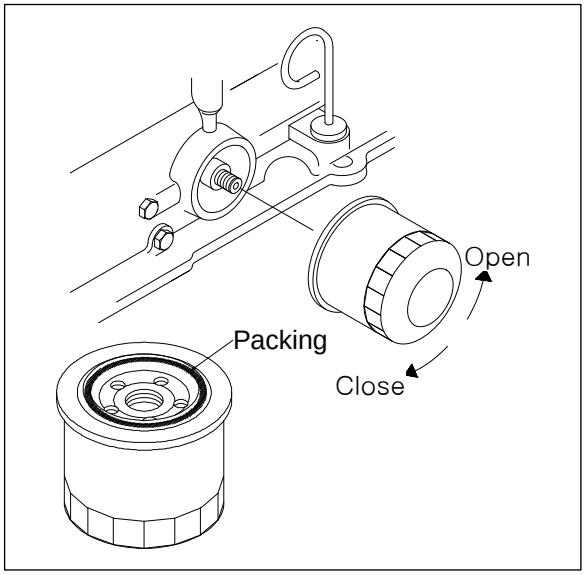

### ② Replace Engine oil filter

- 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)
- Aid engine oil as its capacity, and check the oil level is between MIN and MAX mark.
  For oil specification, refer to “Lubricants and Capacity” at the end of this manual.
  *(or See page 5-6)*
- Check any leakage of the engine while running the engine for several minutes at idle rpm.
- Stop the engine. After several minutes later, check again the oil level is between MIN and MAX mark.
- Install the oil gauge.

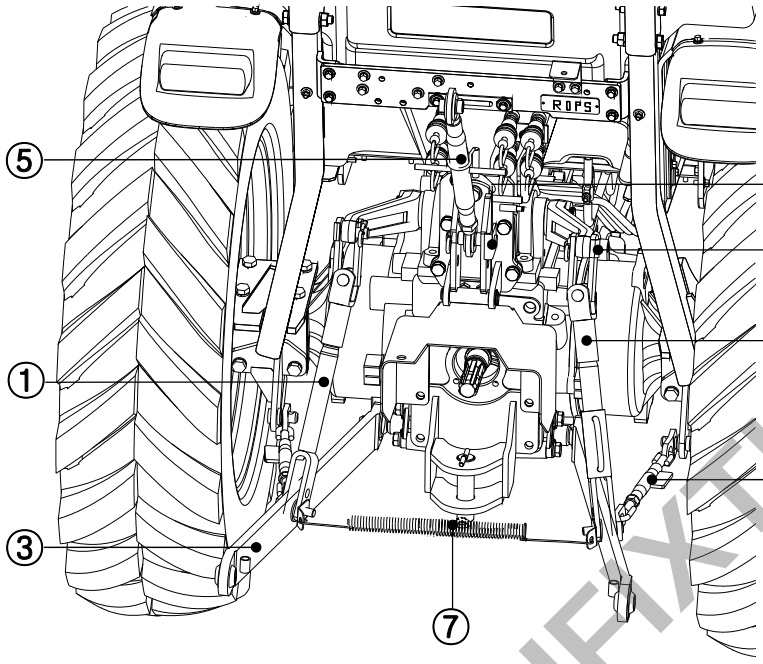





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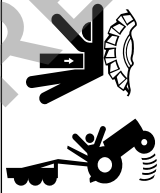
# 4-4. Attaching Implement

## (1) 3-point linkage




① Lift rod (LH)
② Stabilizer
③ Lower link
④ Lift rod (RH)
⑤ Upper link
⑥ Lift rod pin
⑦ Lower link spring (only for check chain)
⑧ Upper link pin

- When attaching the implement, comply with the followings.
  1. Set the implement upright on a level surface and approach the implement in reverse.
  2. Stop the tractor on attaching position and apply the parking brake.
  3. Connect the lower link(3) to implement and insert firmly the lock pin. (left, right)
  4. Connect the upper link(5) to implement and insert firmly the lock pin. Wide adjustable range of the upper link provides you easier attachment.
  5. Fix the implement firmly with stabilizer(2).(left, right).

| | |
|---|---|
| ⚠ Warning | ▶ Before attaching/detaching implement, place PTO switch in OFF position and PTO gear lever in neutral position, and apply the parking brake. |
|  | ▶ When attaching/detaching implement, make sure to assemble and tighten the connecting parts correctly.<br>▶ if the tractor is used to tow heavy loads, always use the approved drawbar or hitch to avoid injury. Never connect to lower link or upper link of 3-point linkage. If not, it may cause tipping or turnover.<br>▶ DO NOT connect the implements that require more power than can be generated by your tractor.<br>▶ Never stand between implement and tractor when connecting implement.<br>▶ DO NOT change the setting pressure of the relief valve arbitrarily to increase the lift capacity of the 3-point linkage. It can cause fatal damage to the hydraulic system. |



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