1. General Notices for Safety

1-1. Before using the tractor



※ Read this Operator's manual carefully, before using the tractor, to understand fully.

◆ General information for right use

- Your tractor is designed and manufactured to be **used for agriculture**. Do not use the product for improper purpose out of the intention of manufacturer, and follow the safety instructions provided by this Operator's manual.
- Especially, read Chapter 1 "**General Notices for Safety**" thoroughly and **never modify or change** the driver's protection device or safety device without permission, **never use tractor without safety** devices or operate in violation of traffic rules, etc. (Do not remove seat belt or safety frame (Roll bar) or PTO shield)
- After using first 50hours, perform "**First 50 hour check**" and periodic regular check. (*See page 5-6*)
- The manufacturer will not be responsible for the damage or safety problems caused by maintenance or repair with non-genuine parts. It must be requested to **use the genuine parts**.
- When cleaning the tractor by using high pressurized water, do not inject water directly to the electronic parts, wiring, air intake pipe, hot engine or muffler inside bonnet.
- Maintenance and repair of the tractor is performed by **skilled technical experts with the proper tools** authorized by the manufacturer.
- For damage or accidents caused by the miss use or operation in violation of these rules, the manufacturer will not have any responsibility and warranty.
- Keep this Operator's manual for future reference at hand (on the tractor).

◆ Safety Mark Description

- In the places where the cautions in usage are required, the marks such as "**DANGER", "WARNING", "CAUTION"** are found.
- You should comply with the description marked on the decals attached on the product or the contents marked with safety mark in this Operator's Manual..

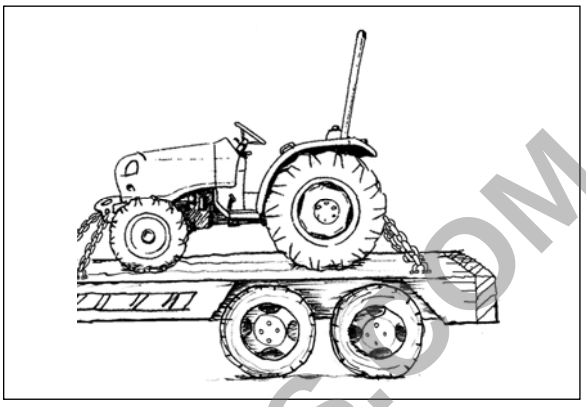
Danger	**Danger** – This indicates a fatal dangerous situation that may cause a serious injury or death if not avoided.
Warning	**Warning –** This indicates a potential dangerous situation that may cause a serious injury or death if not avoided.
Caution	**Caution –** This indicates a potential dangerous situation that may cause a light injury or damage to the properties if not avoided.
Notice	**Notice –** This indicates the instructions for right use for the safety of persons or products.

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(6) Notices when transporting the tractor

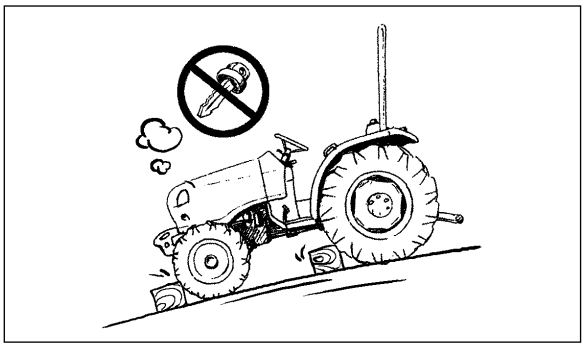
- When transporting the tractor by truck, trailer, etc, use suitable equipment or facilities to load or unload the tractor.
- Fix the tractor tightly to the vehicle with heavy-duty straps or chains.
- When fixing the rear of the tractor, use the hitch or hitch support.
- When fixing the front of the tractor, use the towing hook.
- When driving on public roads, the transporting vehicle must have signs and lights required by local regulation to avoid collision with a vehicle.



⚠Caution	▶ When fixing the tractor, Do not hook or connect chains to the 4WD shaft, steering cylinder, tie-rod or front axle. These can be damaged by the chain or excessive strain. ▶ In case of turbocharger engine (if fitted), cover the exhaust outlet to protect that the turbocharger does not rotate by air without lubrication.

(7) Notices when parking tractor

- Stop the tractor on level ground. Place the transmission gear in neutral.
- Put PTO switch to “OFF” and lower implements to the ground.
- Stop the engine and remove the ignition key.
- Apply the parking brake.
- Have to apply the wheel chock on a slope.



⚠Caution	▶When parking on a slope while attaching the loaded equipment, the tractor may move even if the parking brake is applied. Apply the wheel chock and low speed transmission gear as follow. -. Mechanical : downhill ⇒ Reverse 1gear / uphill ⇒ Forward 1gear -. HST type : Lowest gear

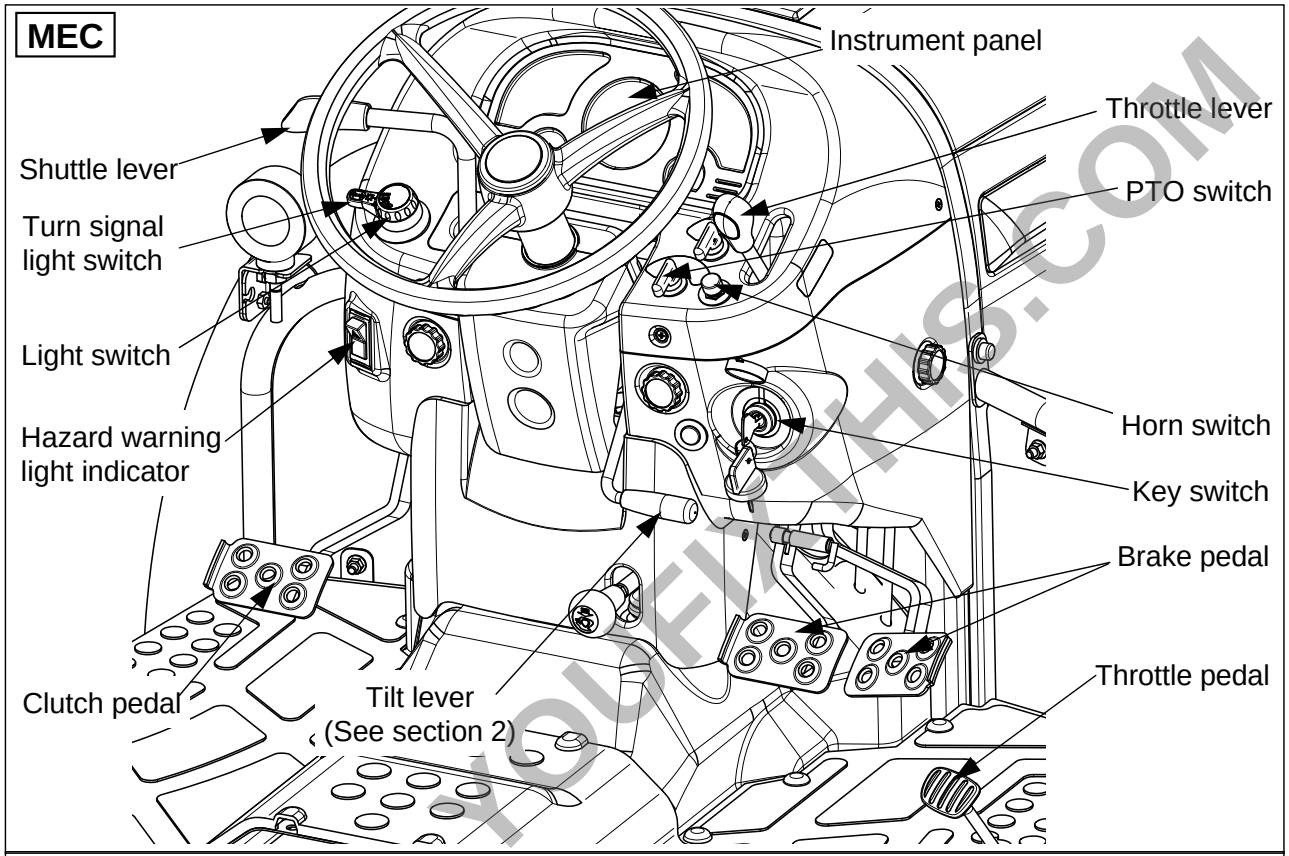
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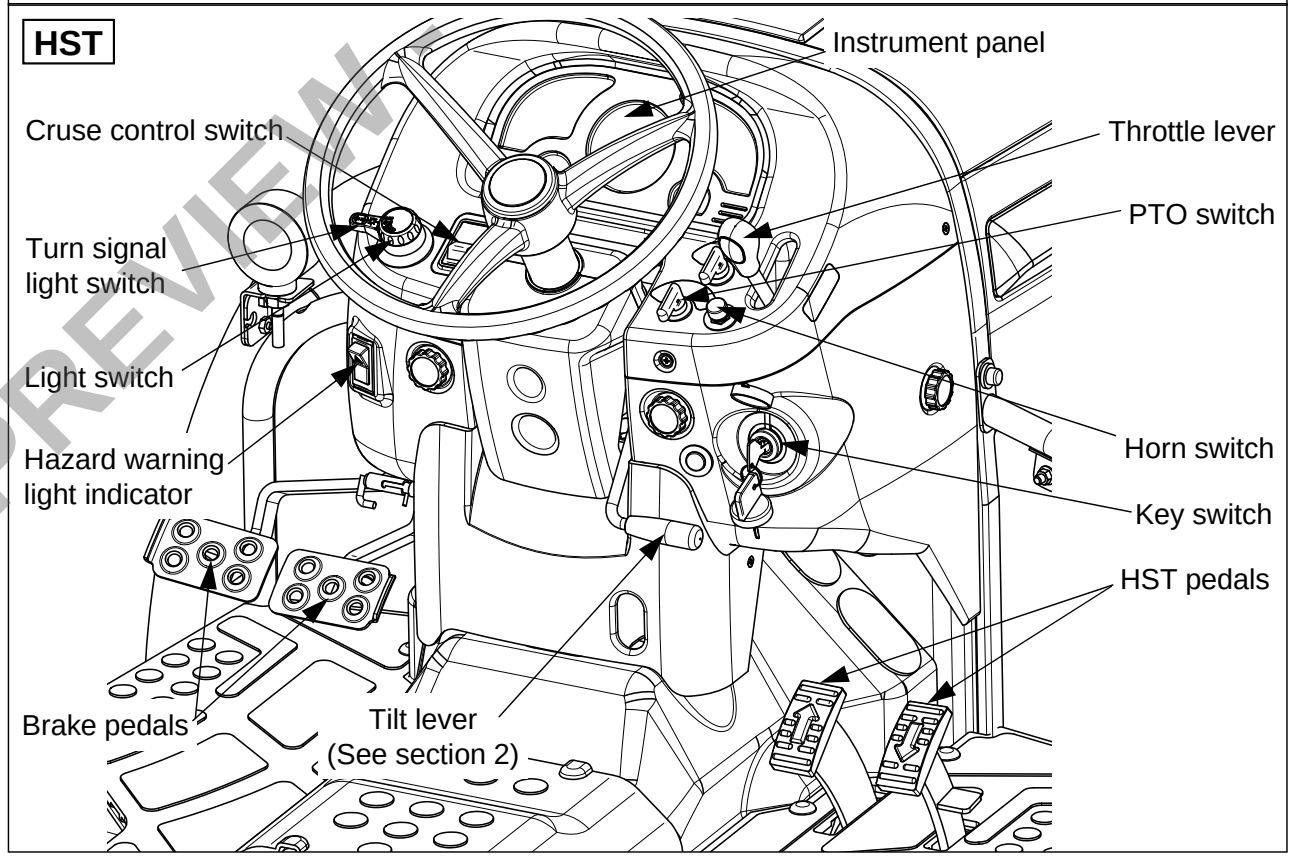
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3. Instruments and Controls

3-1. Instrument panel and Front controls

Important to owner, read carefully



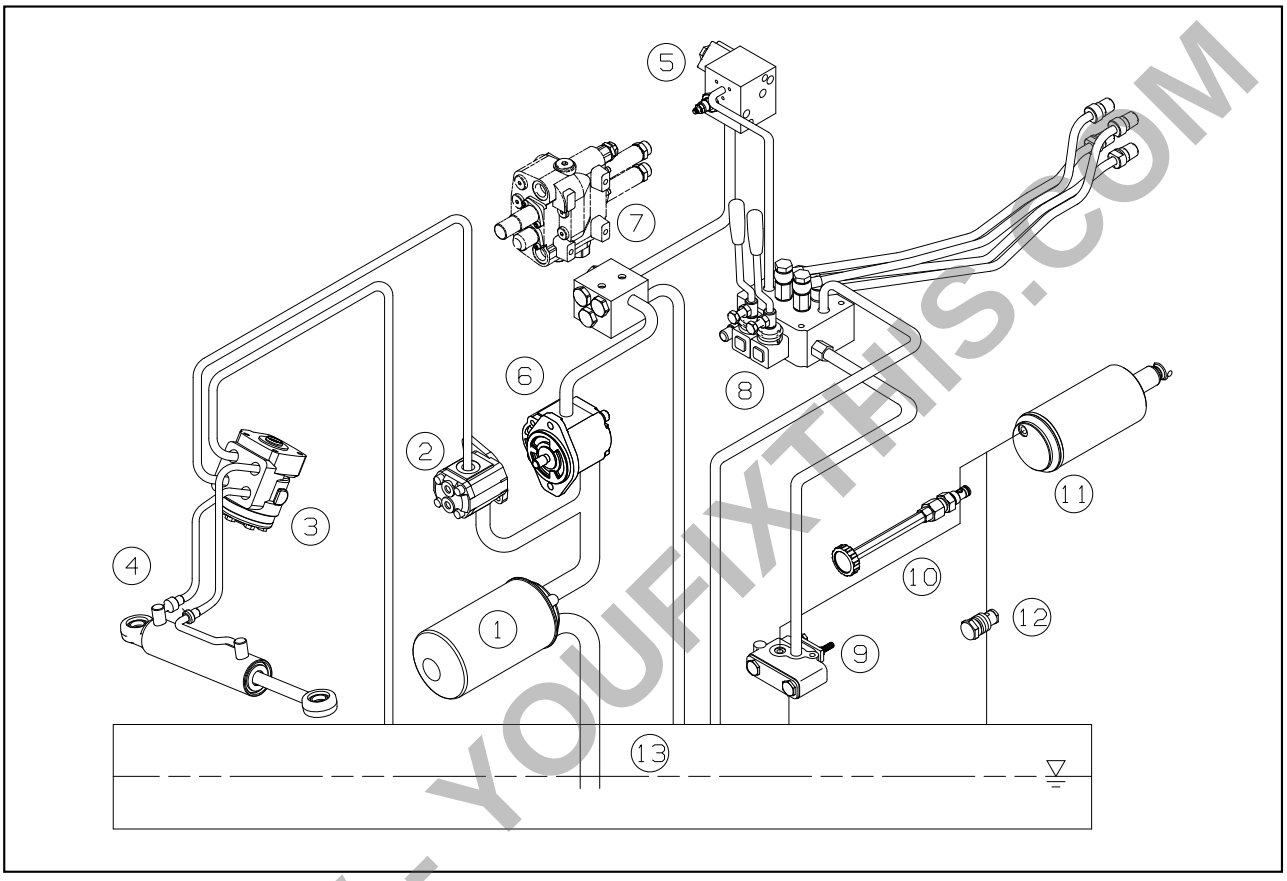


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(7) Hydraulic System Diagram

Mechanical type



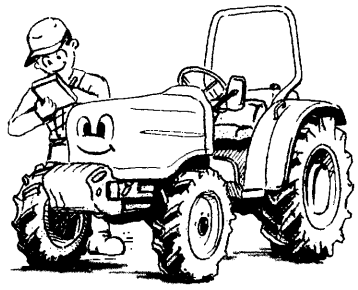
1. Hydraulic oil filter
2. Steering pump
3. Steering unit
4. Steering cylinder
5. Independent PTO valve
6. Hydraulic lift pump
7. Front outlet valve
   Front loader valve (option)
8. Remote control valve
9. Hydraulic lift control valve
10. Down speed control valve
11. Hydraulic lift cylinder
12. Safety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

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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 before starting. ▶Place all the levers and switches in NEUTRAL or OFF position.

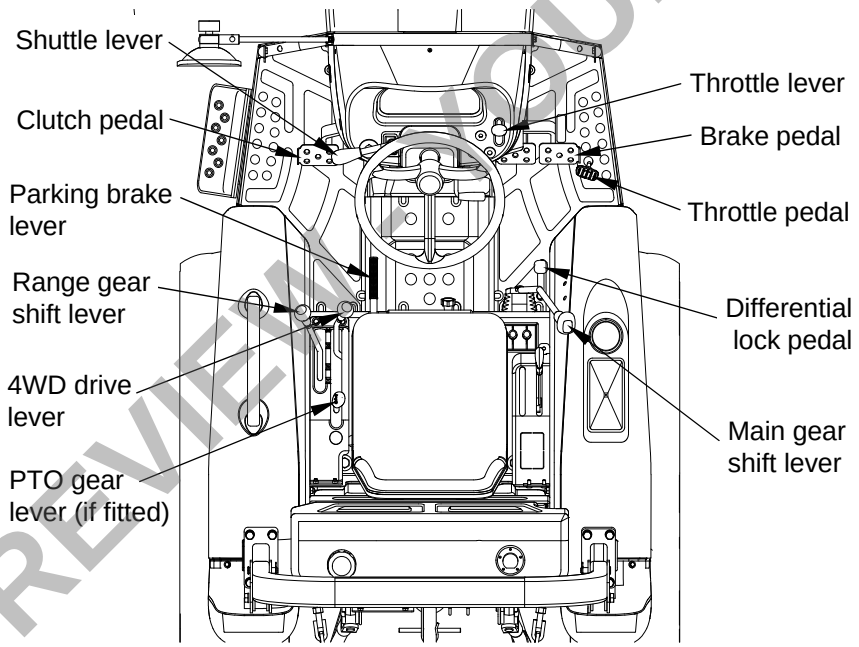
(1) Engine start

Mechanical type

1. Sit in the driver's seat and apply the 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.

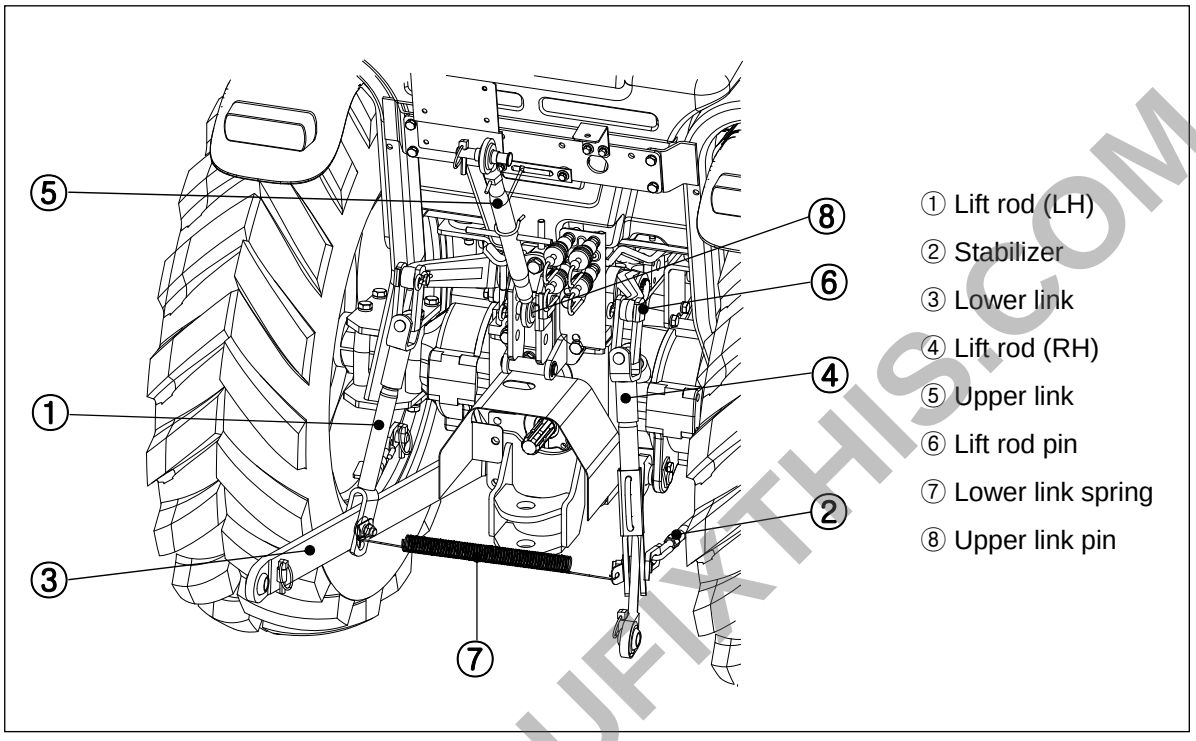
8. Run engine for a few minutes to warm up the engine oil and transmission oil.

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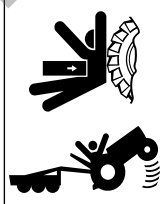
4-4. Attaching Implement

(1) 3-point linkage



- When driving without attaching implement, comply with the followings.
  1. Fix upper link(5) with the fixing hook.
  2. Connect stabilizer(2) to the lower link(3) to avoid the lateral movement of the lower link.
  3. Connect lower link spring(7) to lower link(3) (left, right).

- If 3-point linkage is not necessary, raise 3-point linkage to maximum height and fix it by turning the down speed control knob, or remove it as follow.
  1. Remove upper link pin(8) and upper link(5).
  2. Detach rear side of the stabilizer(2) from the lower link(3) while holding lower link tightly not to fall down.
  3. Remove lift rod (LH), lift rod (RH) and stabilizer(2) step by step.
  4. Remove lower link(3) carefully not to get hurt due to its weight.

⚠ Warning	▶ Before attaching/ detaching implement, place PTO switch in OFF position and PTO gear lever in NEUTRAL ,and apply the parking brake.
	▶ When attaching/detaching implement, make sure to assemble and tighten the connecting parts correctly.
	▶ 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.
	▶ DO NOT connect the implements that require more power than can be generated by your tractor.
	▶ Never stand between implement and tractor when backing up.

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(2) Maintenance Table

Mechanical type

No.	Checking part	Type	Capacity & Dimension	Checking period (Time)				
				Daily	50	300	600	1200
1	Fuel tank	See page 5-5	32 L (8.5 U.S.gals.)	▲				
2	Fuel filter	Element				●		
3	Engine oil	See page 5-5	See page 5-5	▲		●		
4	Engine oil filter	Element			★	●		
5	Engine coolant	See page 5-5	See page 5-5	▲			●	
6	Radiator screen			▲	■			
7	Air cleaner	Dry		▲	■	●		
8	Battery				▲			
9	Fan belt tension		10~12 mm (0.39~0.47 in.)			▲		
10	Valve clearance		0.25 mm(0.0098 in.)				▲	
11	Nozzle injection pressure		See page 5-23				▲	
12	Hydraulic oil filter				★	●		
13	Transmission oil	See page 5-5	30 L (8.0 U.S.gals.)		▲		●	
14	Front axle oil	See page 5-5	5.5 L (1.5 U.S.gals.)		▲		●	
15	Steering cylinder	Grease	Proper amount		▲			
16	Front axle holder & Steering arm	Grease	Proper amount		▲			
17	3-Point linkage	Grease	Proper amount		▲			
18	Clutch pedal play		20~30 mm (0.79~1.18 in.)	▲				
19	Brake pedal play		50~60 mm (1.97~2.36 in.)	▲				
20	Turn signal lights, Lights, Horn			▲				
21	Instrument panel & Indicators			▲				
22	Bolts and Nuts			▲				
23	Tire air pressure			▲				
24	Toe-in		0~5 mm (0~0.20 in.)			▲		

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

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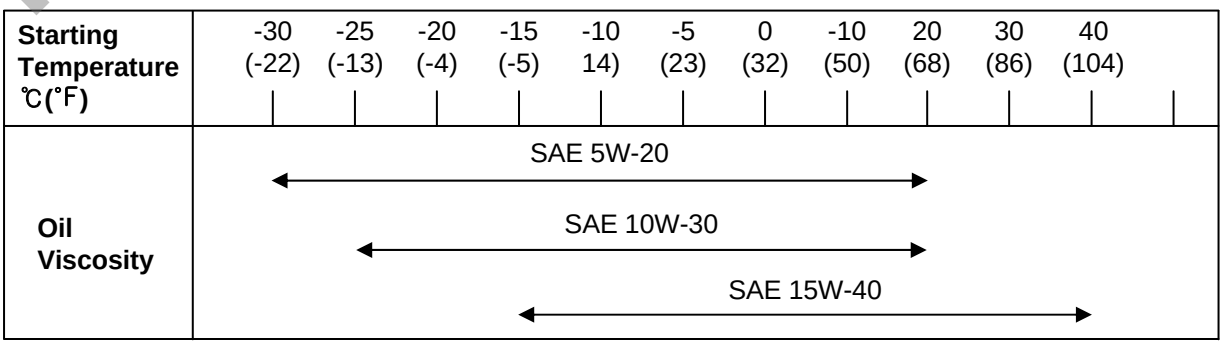
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5-2. Lubricants and Capacity

Lubricants	Capacity	International Standard	Recommended products
Engine coolant (Radiator)	4.9 L (1.3U.S.gals.)	ASTM D5216	Soft water (50%) + Anti-freeze (50%)
Fuel	32 L (8.5 U.S.gals.)	ASTM D975 No.2	Low Sulfuric Diesel Fuel
Engine oil (Crank case)	4.5 L (1.2U.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)	30 L (7.9 U.S.gals.)	API GL4 ISO VG 46/68	Hy-Trans
Front axle oil	5.5 L (1.5 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.



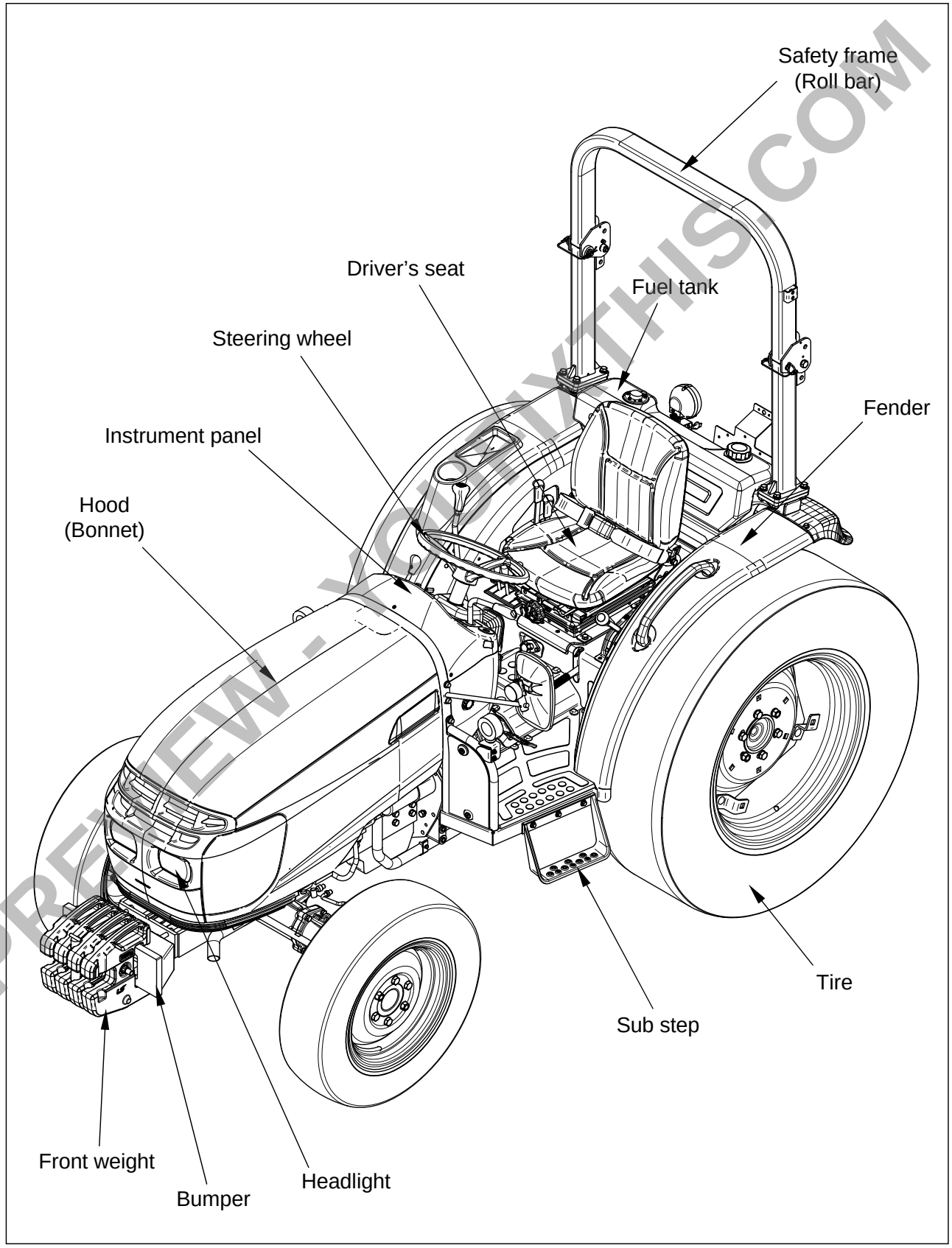
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2. Instruction for Safe operation

(1) The name of each part

① Frame type



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5-10. Troubleshooting

⚠ Warning	▶ To avoid injury due to sudden start, apply parking brake and place the transmission gear in “Neutral”.

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 in “OFF” position. ▲ Discharge of battery ▲ Terminal loosened ▲ Key switch failure ▲ Start motor failure	▲ Depress clutch pedal fully ▲ Place PTO switch in “OFF” position ▲ Charge or replace ▲ Tighten the terminal ▲ Repair or replace ▲ Repair or replace
	The start motor turns but the engine does not start.	▲ The battery is weak. ▲ Bad grounding ▲ 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 ▲ Clean 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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		MAXXFARM35
WEIGHT	Mechanical Type	1385kg (3053 lb)
	HST Type	1403kg (3093 lb)
	Bumper	21kg (46.3 lb)
	Front weight	20kg (44.1 lb) x 4
ENGINE	Model	S4L2
	Type	4-stroke, vertical, water cooling
	No. of cylinder	4
	Diameter x stroke	78 x 92mm (3.07x3.62 in.)
	Displacement	1758cc (107.28 in3)
	Rated speed	2700 rev/min
	Maximum speed	2900 rev/min
	Engine rated power	28.3kW
FUEL INJECTION PUMP	Type	In-line
	Speed regulation	Centrifugal
	Fuel filter	Filtering paper
	Air cleaner	Dry
	Injection order	1-3-4-2
LUBRICATION SYSTEM	Type	Forced circulation
	Pump	Trochoid gear pump
	Filter	Replaceable cartridge type
COOLING SYSTEM	Pump	Centrifugal type
	Temperature control	Thermostat
CLUTCH	Type (MAIN / PTO)	Dry single disk / Wet multiple disk
	Operation (MAIN / PTO)	Pedal / Electric-hydraulic
	Return system (MAIN / PTO)	Diaphragm / Coil spring

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