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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 5-4*)
- 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.

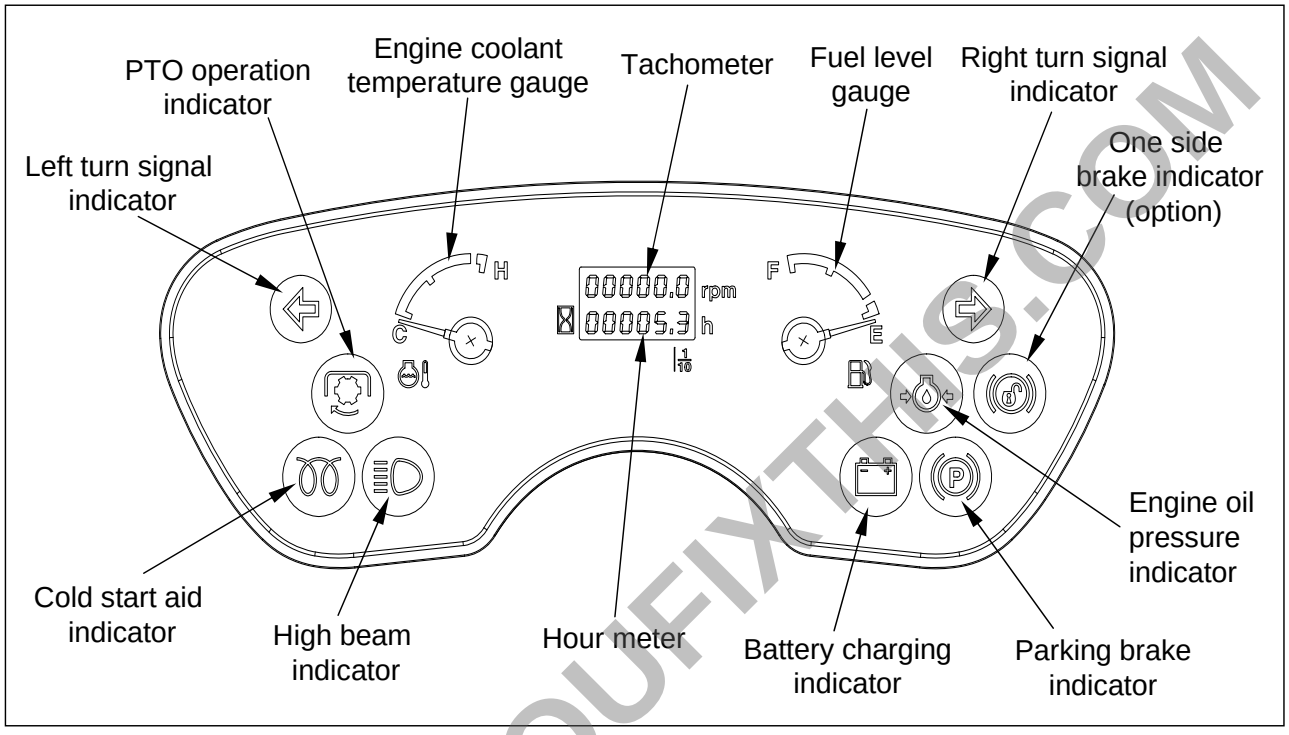
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3. Instruments and Controls

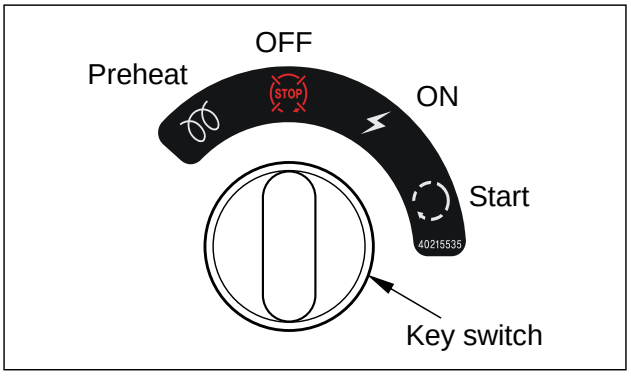
3-1. Instrument panel and Switches

(1) The name of each part



(2) Key switch

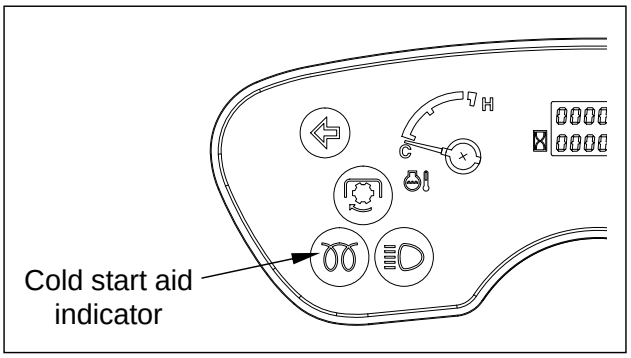
- "Preheat" – Preheat (Cold start aid)
- "OFF" – Engine stops, Power off
- "ON" – Power on
- "Start" – Engine start up



⚠ Caution	▶ As soon as engine starts, turn the ignition key to "ON" position immediately. If not, it may cause damage to starter motor. ▶ If the tractor is not in use, the ignition key should be removed.

(3) Cold start aid indicator

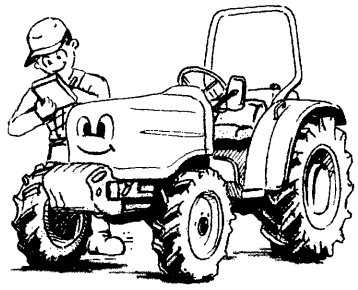
- If key switch is turned to "Preheat", this indicator shall be "ON".
- If key switch is at the "Start" position, this indicator shall be "ON" as well.



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4. Operation and Work

4-1. Engine start and stop



Caution	▶ Check each part before starting the engine. ▶ Check if there's anyone close to the tractor before starting. ▶ Place all the levers and switches in "NEUTRAL" or "OFF" position.

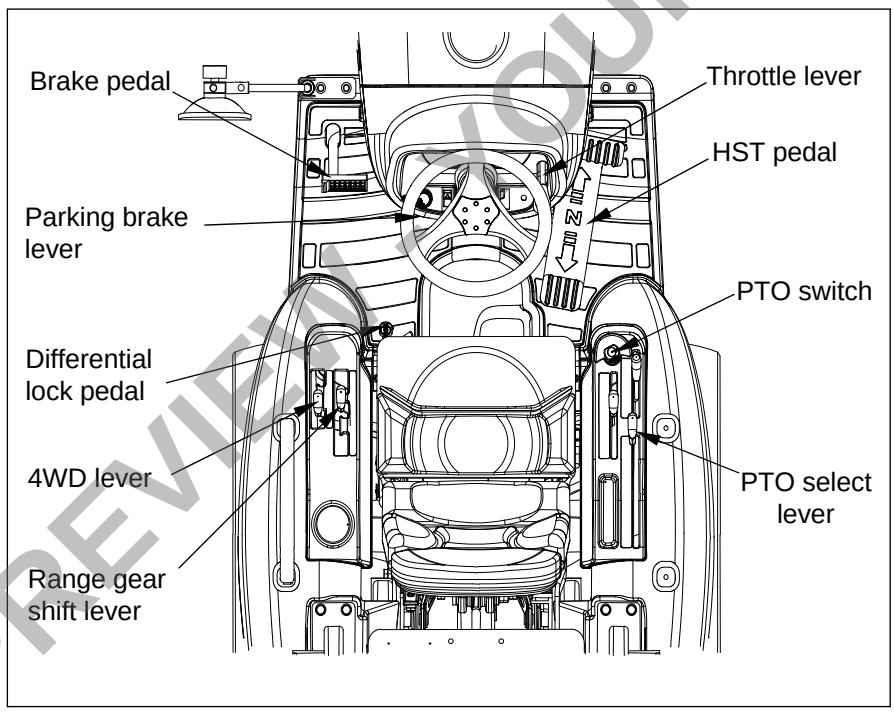
(1) Engine start

HST type

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

2. Place the range gear shift lever in "Neutral", and PTO switch in "OFF".

3. Place the PTO select lever on "Rear PTO" position and HST pedal in "Neutral" position.



4. Push the throttle lever forward to middle position of full throttle.

5. Turn the key switch to "Preheat" for 10 seconds with checking if the preheating indicator is "ON".

6. Turn the key switch to "Start" position. As soon as the engine starts, release the key switch to the "ON" position

7. Check if engine oil pressure indicator, battery charging indicator is OFF.
If these are not go "OFF", stop the engine and check the problem.

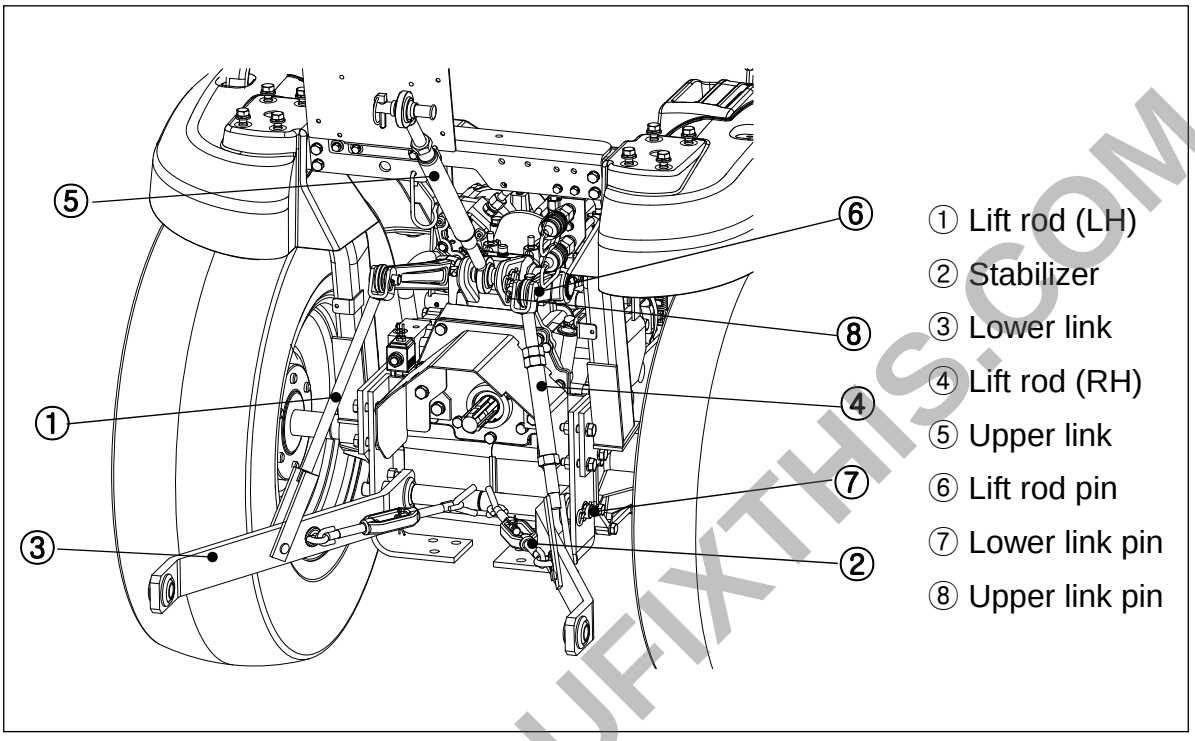
8. Run engine a few minutes to allow engine oil and transmission oil to warm up.

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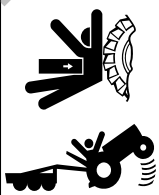
4-4. Attaching Implement

(1) 3-point linkage



- When driving the tractor without attaching implement, comply with the followings.
  1. Fix upper link ⑤ into the fixing hook.
  2. Connect stabilizer ② to the lower link ③ to avoid lateral movement of the lower link.

- 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 detach the upper link ⑤.
  2. Detach fixing parts between lift rod ①,④ and lower link ③ while holding lower link tightly. And, put down the lower link.
  3. Remove the lift rod pin ⑥ and detach lift rod (LH) and lift rod (RH).
  4. Detach the lower link ③ and stabilizer ② after removing the lower link pin ⑦.

Warning	▶ Before attaching/detaching the implement, place PTO switch in “OFF” and PTO gear lever (if fitted) in “Neutral” position and apply parking brake lever.
	▶ When attaching/detaching the 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 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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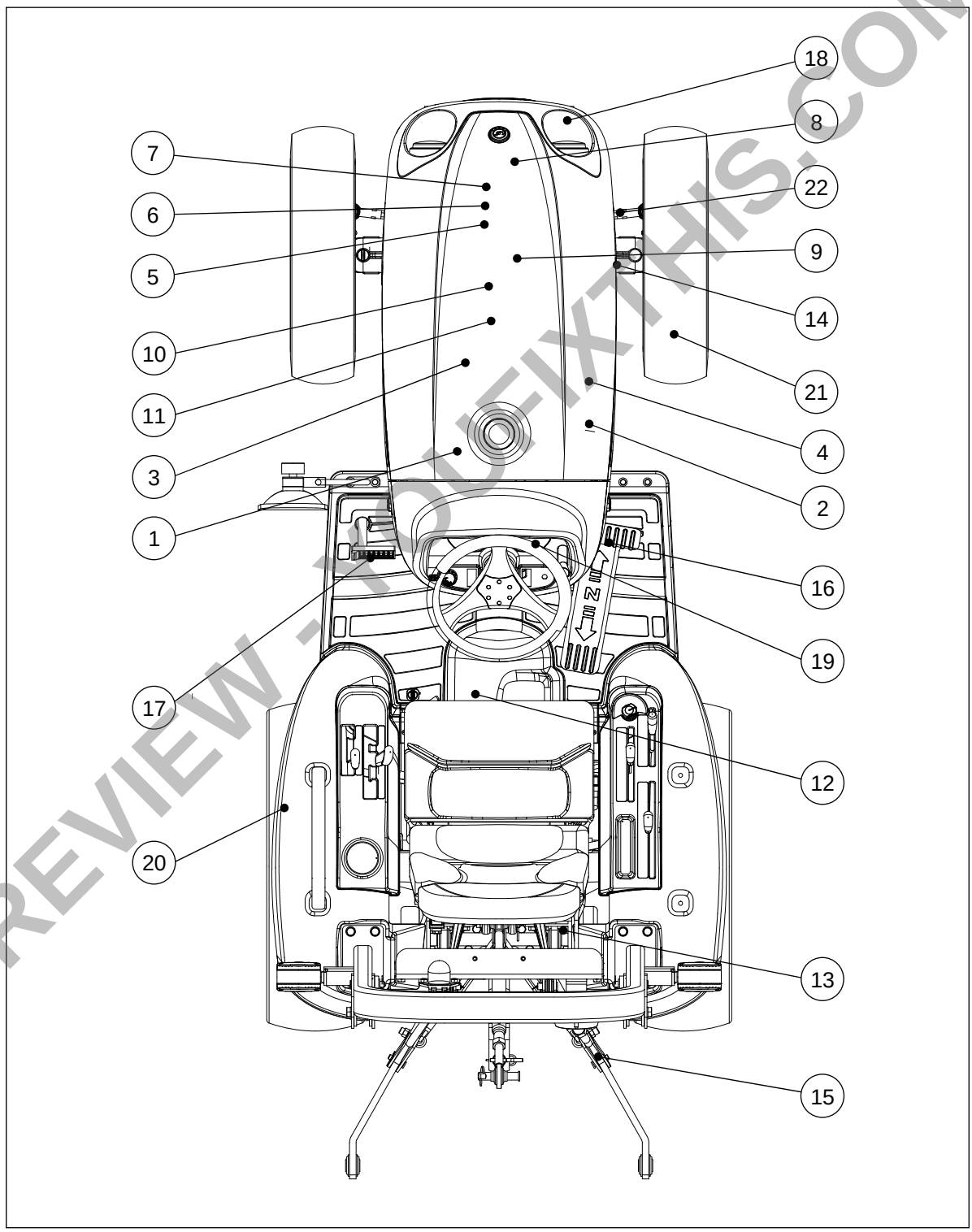
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5. Lubrication and Maintenance

5-1. Checking of Each Part

(1) Checking parts

Mechanical type



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5-10. Troubleshooting

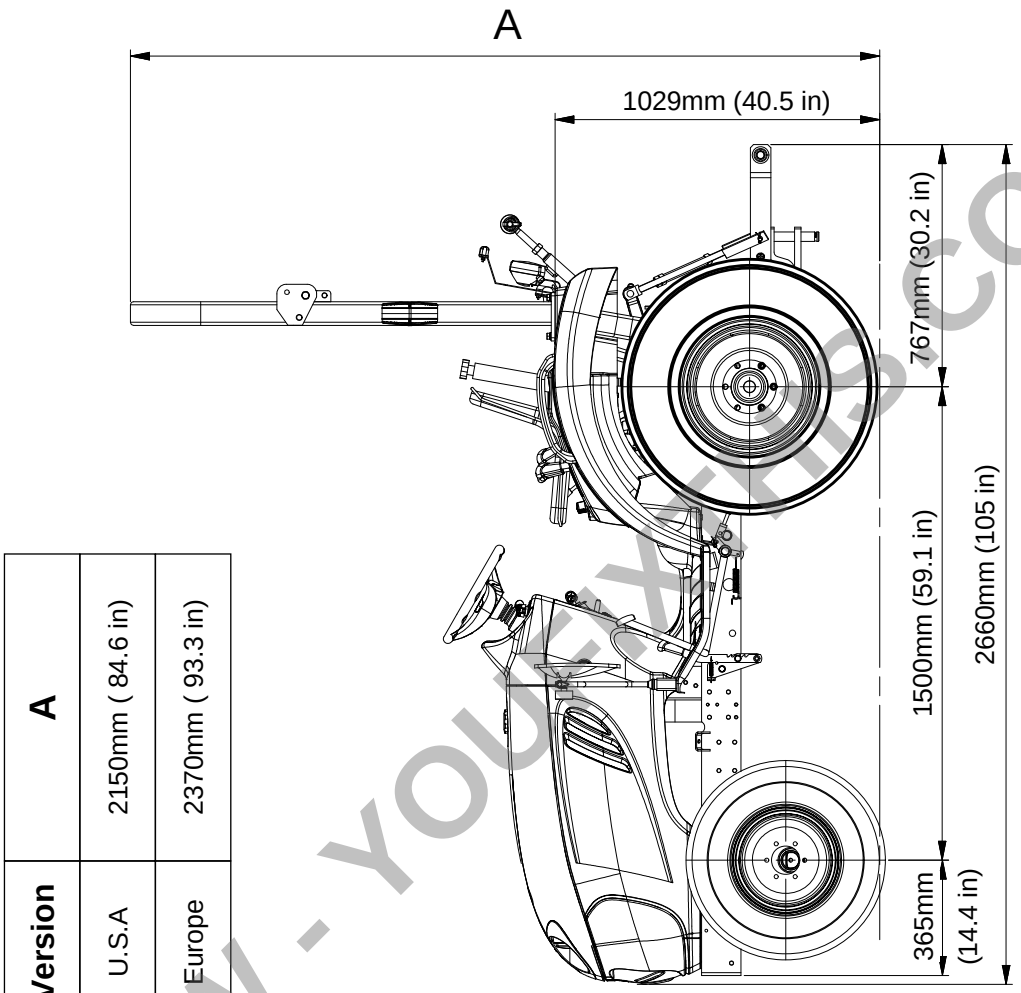
⚠ Warning	▶ To avoid injury due to sudden start, apply parking brake and place the transmission gear in “Neutral”.

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

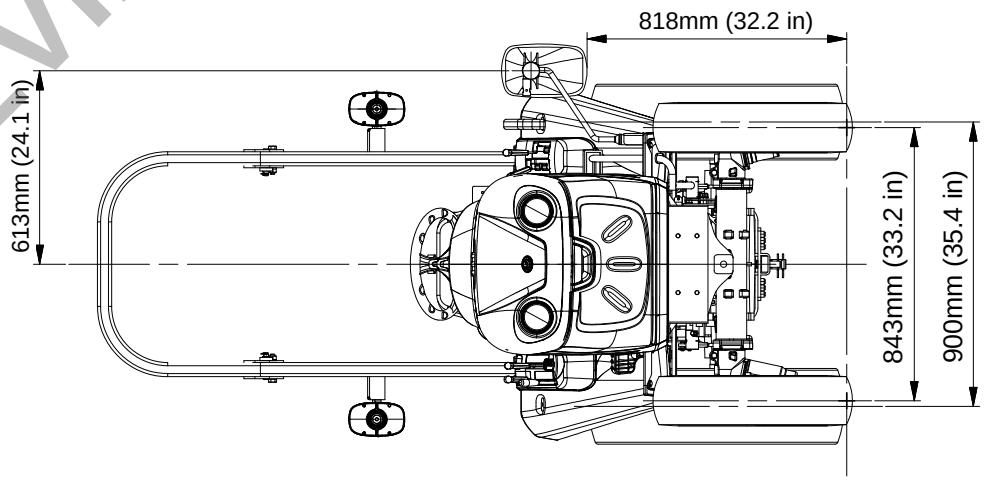
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6. Dimension and Specification



Version	A
U.S.A	2150mm (84.6 in)
Europe	2370mm (93.3 in)



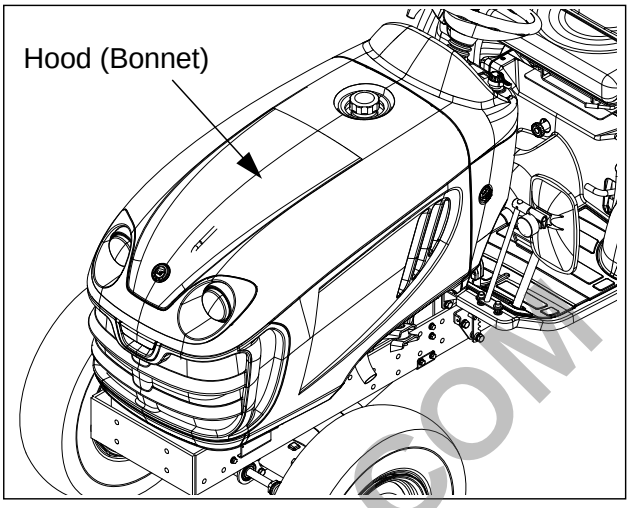
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2-2. Safety Device

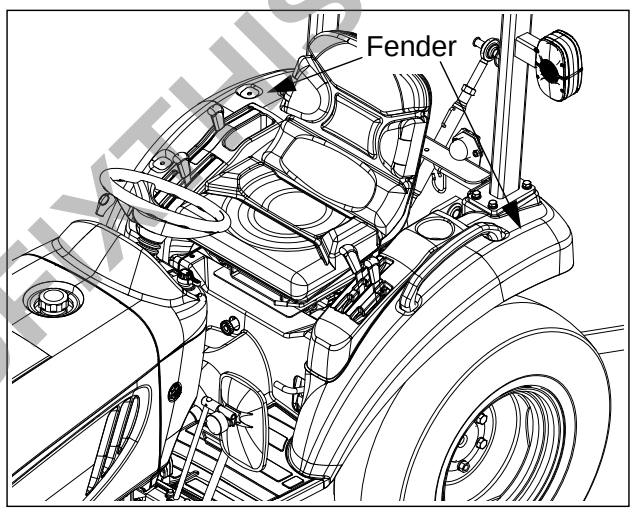
(1) Hood (Bonnet)

- Hood is a protection device to prevent an unintended access to the rotating parts around engine ; cooling fan, fan belt and rotating shaft and pulley.
- Do not remove and modify the hood.



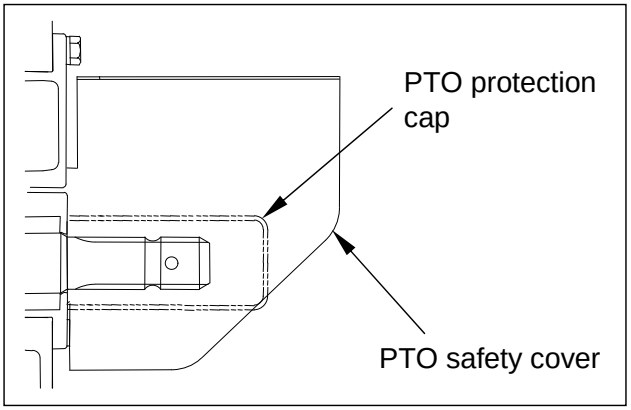
(2) Fender

- Fender is a protection device to prevent an unintended access to the rear tires and to prevent mud from irrupting to the driver.
- Do not remove and modify the fender.



(3) PTO safety cover and protection cap

- PTO safety cover is a protection device to prevent an unintended access to the PTO shaft and to prevent an accident causing by the rotating drive shaft.
- Do not remove the PTO safety cover. If the PTO safety cover or protection cap is damaged or removed, replace it with a genuine part.
- Do not step on the PTO safety cover.
- After using the PTO shaft, apply grease and insert the PTO shaft protection cap.



Warning	▶ If you contact the rotating shaft, it may cause a serious injury. - DO NOT touch shaft which is rotating. - DO NOT remove the safety cover. - Avoid loose clothes that can easily be rolled up in the revolving shaft.

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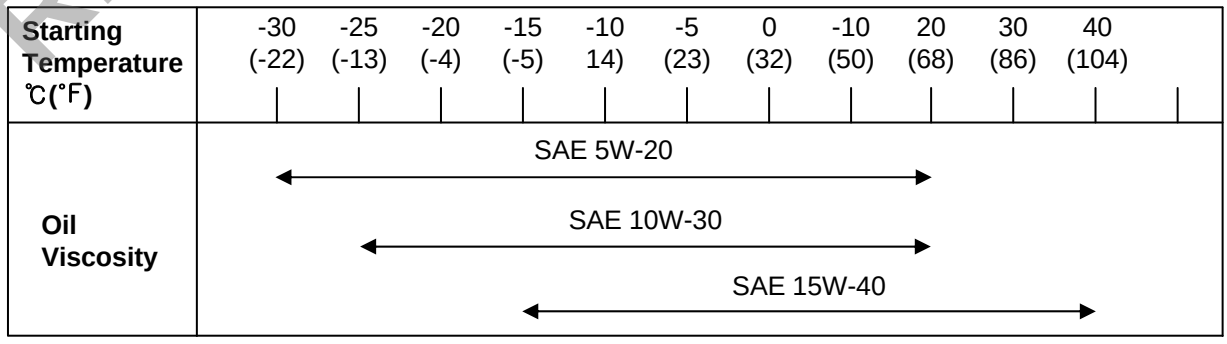
5-2. Lubricants and Capacity

Lubricants	Capacity	International standard	Recommended products
Engine coolant (Radiator)	3.8L (1.00 U.S. gals)	ASTM D5216	Soft water (50%) + Anti-freeze (50%)
Fuel	25L (6.60 U.S. gals)	ASTM D975 No.2	Low sulfuric diesel fuel
Engine oil (crank case)	4.2L (1.10 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)	20L (5.28 U.S. gals)	API GL4 ISO VG 46/68	Hy-Trans
Front axle oil	3L (0.79 U.S. gals)	API GL4 SAE 80W	Hy-Trans
Grease (Front axle holder, 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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