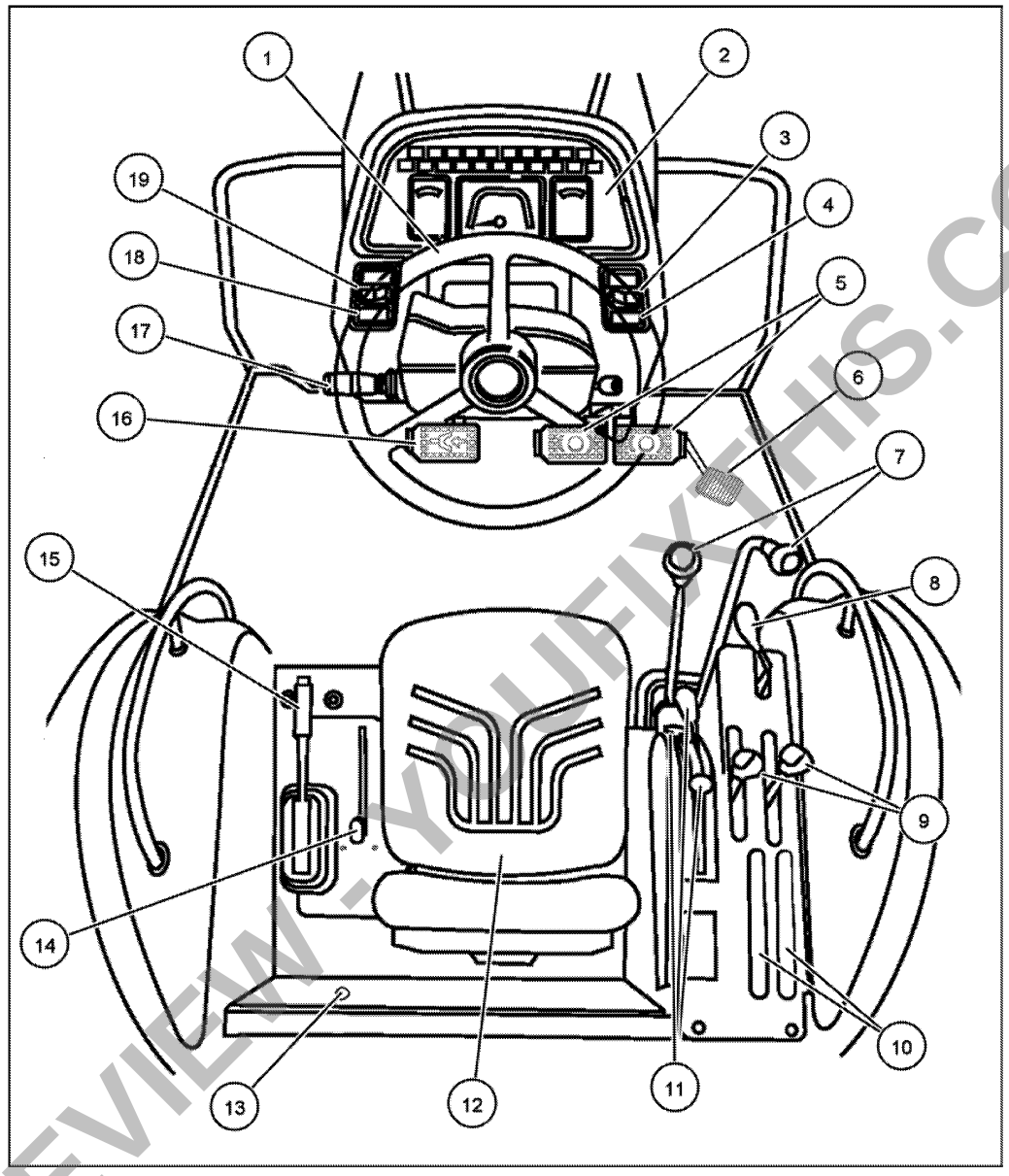
The following illustration is a general overview of the tractor's user controls.

NOTE: *For viewing purposes the operator's seat arm rests are not shown.*



RCPH09TTS001HAD 2

(1) Steering wheel
(2) Instrument panel
(3) Hazard signal switch
(4) Beacon switch
(5) Brake pedals with lock
(6) Front throttle
(7) Transmission controls
(8) Hand throttle
(9) Remote control valve levers
(10) Remote control valve lever (optional)
(11) Hydraulic controls
(12) Operator seat
(13) Beacon power connector outlet
(14) Power Take-Off (PTO) control
(15) Parking brake
(16) Clutch pedal
(17) Multi function lever
(18) Dual command switch (optional)
(19) Four wheel drive switch (optional)

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7 - MAINTENANCE

GENERAL INFORMATION

Maintenance and Service Schedule

Overview

⚠ WARNING ⚠

Improper maintenance can be hazardous. Read and understand General Safety Section before you perform any maintenance, service, or repairs. Read the specific service procedures for the components you will be working with before beginning.

M651

This section details the necessary requirements to keep your machine working at its maximum efficiency. A lubrication and maintenance chart facilitates a quick query of the requirements. If you have questions regarding any lubrication or service issue, contact your New Holland Dealer.

Service Interval	Service Requirements	Check	Clean	Lube	Change	Adjust	Drain	Wash
Warning Light on	Clean the Engine Air Filter Outer Element.		x					
Every Ten Hours or Daily	Engine Oil Level	x				x		
	Radiator, Oil Cooler and Condenser (if equipped)	x	x					
	Engine Cooling Fluid Level	x				x		
Every 50 Hours	Wheel and Tires	x				x		
	Fuel Filter and Water Separator						x	
	Transmission/Rear Axle Oil Level	x				x		
	All Grease Fittings			x				
Every 300 Hours	* Engine Oil and Filter				x			
	Front Axle Differential Oil Level (4WD)	x				x		
	Front Axle Hub Oil Level (4WD)	x				x		
	ROPS Safety Frame Screws	x				x		
	Service Brake				x			
	Parking Brake	x				x		
	Hydraulic/Transmission Oil Filter				x			
Every 600 Hours	Engine Air Filter Outer Element				x			
	Front Axle Hubs (2WD)	x	x	x		x		
	Fuel Filter and Water Separator		x		x			
Every 1200 Hours or annually	Fuel Injectors	x	x			x		
	Hubs/Front Axle Oil (4WD)				x			
	Hydraulic/Transmission/Rear axle oil change				x			
Every 1200 Hours or every two years	Cooling System						x	
	Engine Air Filter Inside Element				x			
General Service	Lighting Equipment	x			x	x		
	Relays and Fuses	x			x			
	Automatic Trailer Hitch	x				x		
	Engine Idle Speed	x				x		
	Clutch Interlock Cable	x				x		
	Alternator	x						
	Machine Preparation and Storage	x						

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8 - SPECIFICATIONS

General dimensions

GENERAL DIMENSIONS	TS6020 (4WD)	TS6030 (4WD)	TS6030 HC (4WD)
Height to the steering wheel	**2098 mm (82.6 in)**	**2098 mm (82.6 in)**	**2355 mm (92.7 in)**
Height to the safety frame	**2974 mm (117.1 in)**	**2974 mm (117.1 in)**	**3208 mm (126.3 in)**
Height to the exhaust	**2905 mm (114.4 in)**	**2905 mm (114.4 in)**	**3140 mm (123.6 in)**
Clearance to the ground under the front axle	**515 mm (20.3 in)**	**515 mm (20.3 in)**	**645 mm (25.4 in)**
Minimum clearance to ground	**480 mm (18.9 in)**	**480 mm (18.9 in)**	**703 mm (27.7 in)**
Minimum width – in the tires at a 64” tread spacing	**2112 mm (83.1 in)**	**2112 mm (83.1 in)**	**2040 mm (80.3 in)**
Maximum width – in the tire	**2454 mm (96.6 in)**	**2454 mm (96.6 in)**	**4083 mm (160.7 in)**
Total length (to the lift end)	**3957 mm (155.8 in)**	**3957 mm (155.8 in)**	**3957 mm (155.8 in)**
Wheelbase	**2520 mm (99.2 in)**	**2753 mm (108.4 in)**	**2555 mm (99.2 in)**
Minimum turn radius with brake (4WD engaged)	**4210 mm (165.7 in)**	**4210 mm (165.7 in)**	**4210 mm (165.7 in)**
Without Brake	**5490 mm (216.1 in)**	**5490 mm (216.1 in)**	**5490 mm (216.1 in)**
Minimum turn radius with brake (4WD disengaged)	**4190 mm (165.0 in)**	**4190 mm (165.0 in)**	**4190 mm (165.0 in)**
Without Brake	**5430 mm (213.8 in)**	**5430 mm (213.8 in)**	**5430 mm (213.8 in)**
The above dimensions are based on a standard tractor with the following tire sizes			
Front tire size:	14.9 x 28	14.9 x 28	13.6 x 38
Rear tire size:	18.4 x 38	18.4 x 38	13.6 x 38

NOTE: *If your machine has different size tires than those listed above, the dimensions may vary in tire width and tread radius.*

MACHINE WEIGHT(4WD)	TS6020	TS6030	TS6030 HC
On front axle	**1328 kg (2928 lb)**	**1328 kg (2928 lb)**	**1528 kg (3368 lb)**
On rear axle	**1905 kg (4200 lb)**	**1905 kg (4200 lb)**	**2142 kg (4721 lb)**
Total weight with fuel, oil and coolant	**3233 kg (7128 lb)**	**3233 kg (7128 lb)**	**3670 kg (8089 lb)**

NOTE: *The indicated weights are based on standard tractors, full fuel tank, without operator, without counterweights or any other optional equipment.*

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4 - OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Note to the Owner

Before operating the tractor

Before operating the machine, ensure that you are thoroughly familiar with the location and operation of the controls.

Perform all daily lubrication and maintenance operations.

After completing the daily maintenance operations, walk around for a visual inspection of the machine. Pay particular attention to the following items:

- Fan belt for cracks.
- Engine area for dirt and debris accumulation.
- Hoses, lines and fittings for leaks or damages.
- Tires for damage.
- Hardware for looseness.
- Driveline and hydraulic pump areas for leaks or debris accumulation.

Make any necessary repairs before using the tractor.

Tractor operating safety rules

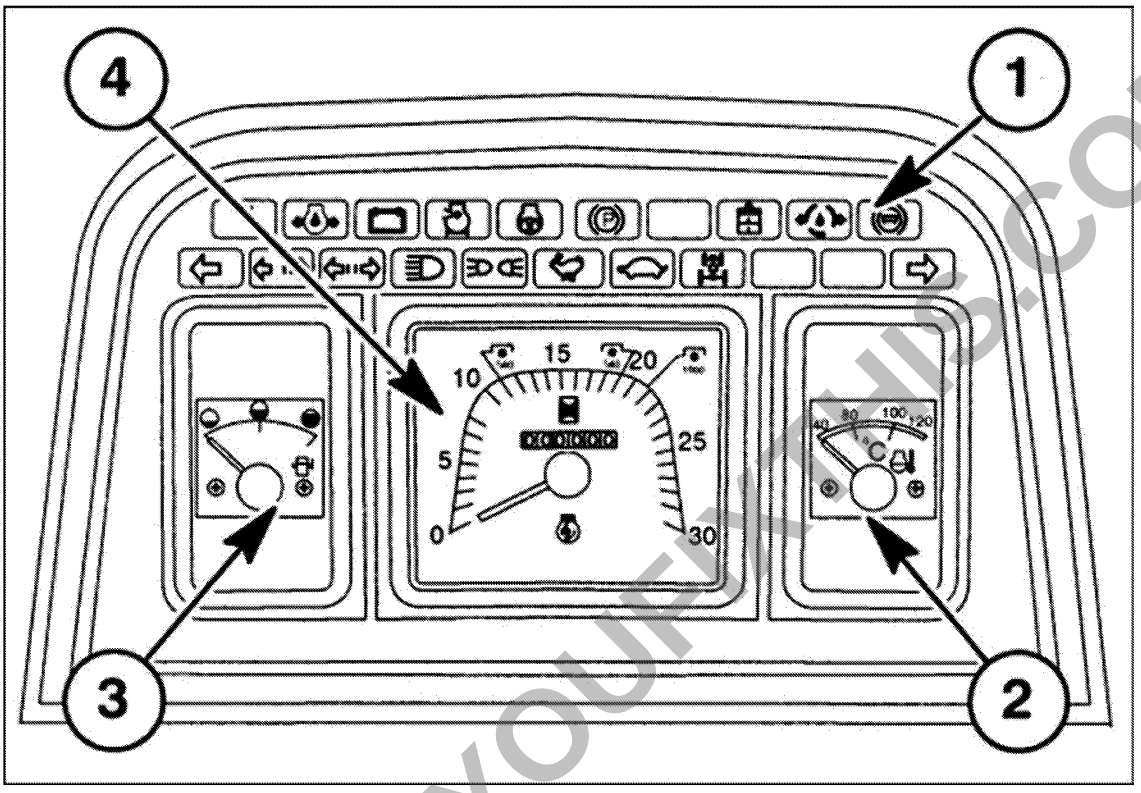
- Before starting the engine, apply the parking brake; place the PTO control in neutral (OFF), the lift control lever in the down position, the remote control valve levers in neutral position and the transmission levers also in neutral position.
- Do not start the engine or operate controls while standing beside the unit. Always sit in the machine's operator seat when performing any of these operations.
- Do not bypass the transmission and PTO neutral start switches. Contact your New Holland dealer if these switches malfunction. Improper use can result in the machine to move inadvertently.
- Avoid accidental contact with the gear shift levers while engine is running. Unexpected machine movement can result from such contact.
- Never get off the machine while it is in motion.
- If the power steering becomes disabled or the tractor engine ceases operation, it will be more difficult to steer the tractor.
- Before exiting the machine, park it on level ground, apply the parking brake, lower the attached implements to the ground, disengage the PTO, and stop the engine.
- Do not park the machine on a slope.
- Never leave the machine's engine running in closed areas with poor ventilation. Exhaust gases are toxic and may cause death.
- When towing equipment, pull only from the drawbar. Only use a drawbar pin that locks in place. Pulling from the rear axle or any other point above the axle, may cause the machine to rollover.
- Always select Position Control when attaching or transporting equipment. Be sure hydraulic couplers are properly mounted and will disconnect in case of accidental detachment of the implement.
- If the front end of the machine tends to rise when heavy implements are attached to the three-point hitch, install front end counterweights. Do not operate the machine with a light front end.
- Ensure that attached equipment or accessories are correctly installed and are approved for use with the machine. Do not overload the machine. Ensure that equipment is operated and serviced according to the manufacturer's instructions.
- Remember that your machine, if improperly or incorrectly used, may be dangerous for the operator and bystanders. Do not overload or operate with unsafe attached equipment, not designed for a particular task or in bad conditions.
- Do not leave equipment in raised position when the vehicle is stopped or unattended.
- Do not drive equipment near open fires.
- Always wear a protective mask when working with sprays or toxic chemical products. Follow the directions on the product container that is in use.

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FORWARD CONTROLS

Instrument panel



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1. Warning and status indicator lights
2. Engine cooling system temperature guage
3. Fuel level guage
4. Tachometer and hour meter

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First 50 hours of tractor operation

Check–ups before starting the engine:

1. Tire Pressure and Condition. . . . . □
2. Clean the radiator and oil cooler (if equipped). . . . . □
3. Radiator Coolant Fluid Density and Level [1071 – 1083 to **16 °C** (**61 °F**)] . . . . . □
4. Change fuel filter, drain water separator and bleed the system. . . . . □
5. Inspect Poly-V belt. . . . . □
6. Change the engine oil and replace the oil filter. . . . . □
7. Change transmission/hydraulic filter. . . . . □
8. Check rear axle/transmission oil level. . . . . □
9. Check the front axle differential oil level (4WD). . . . . □
10. Check the front axle hub oil level (4WD). . . . . □
11. Check the clutch/brake fluid level in the master cylinder. . . . . □
12. Check the clutch pedal free travel. . . . . □
13. Check the brake adjustment and pedal balance. . . . . □
14. Adjust the parking brake cable. . . . . □
15. Exhaust screw torque. . . . . □
16. Wheel rim clamp jam nut and screws torque. . . . . □
17. Disc to wheel hub nuts torque. . . . . □
18. Front weight clamp screws torque. . . . . □
19. Lubricate front wheel tread (2WD). . . . . □
20. Lubricate all grease fittings. . . . . □
21. Clean the air filter element and check the hose joints. . . . . □

Safety item check:

1. ROPS safety frame screw torque. . . . . □
2. Start neutralizer switches operation. . . . . □
3. Operator Manual Delivery. . . . . □

All the operational checkups should be performed with the machine running at its normal temperature.
Check–ups with engine running:

1. Lights and instruments for a proper operation. . . . . □
2. Fluid and oil leaks. . . . . □
3. Maximum rotation regulation without load, idle and fuel shut-off. . . . . □
4. PTO operation. . . . . □
5. Hydraulic system:

- Effort and position control operation. . . . . □
- Flow control operation. . . . . □
- Remote control valve operation. . . . . □

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Engine specifications

Engine Iveco Tier III F4CE9484G*J604(82kW)/ F4CE9484J*J602 (88kW)	TS6020	TS6030/TS6030HC
Number of cylinders	4TAA/4Turbo	4TAA/4Turbo
Bore	**104 mm** (**4.1 in**)	
Stroke	**132 mm** (**5.2 in**)	
Displacement	**4485 cm³**	
Compression Ratio	17.5:1	
Firing Order	1-3-4-2	
Low speed Rotation (rev/min)	800	
Maximum RPM without Load (rev/min)	2400	
Maximum RPM (rev/min)	2200	
Valve Backlash (cold)		
Intake	**0.20 - 0.30 mm** (**0.008 - 0.012 in**)	
Exhaust	**0.45 - 0.50 mm** (**0.018 - 0.020 in**)	
Nominal Power to the crankshaft	**82 kW** (**110 Hp**)	**88 kW** (**118 Hp**)

Engine coolant specifications

COOLING SYSTEM	All models
Pump type	---Impeller ---
Blower diameter	**512 mm** (**20.2 in**)
Number of blades	5
Thermostats	
Begins opening	**81 °C** (**178 °F**)
Fully open	**95 °C** (**203 °F**)
Radiator pressure cap	**0.9 bar** (**13.1 psi**)

Available transmissions

Transmission types	All models
SyncroCommand	8 x 2 **30 km/h** (**18.6 mph**)
Option with Creeper	12 x 3 **30 km/h** (**18.6 mph**)

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Power Take-Off Operation

⚠ WARNING ⚠

Whenever a PTO driven machine is in operation, the PTO guard must be in place for most operations to prevent injury to the operator or bystanders. Where attachments, such as pumps, are installed on the PTO shaft (especially if the tractor PTO guard is moved upward or removed), extended shielding equivalent to the PTO guard must be installed with the attachment. Install the PTO guard to its original position immediately when the attachment is removed. Failure to comply could result in death or serious injury.

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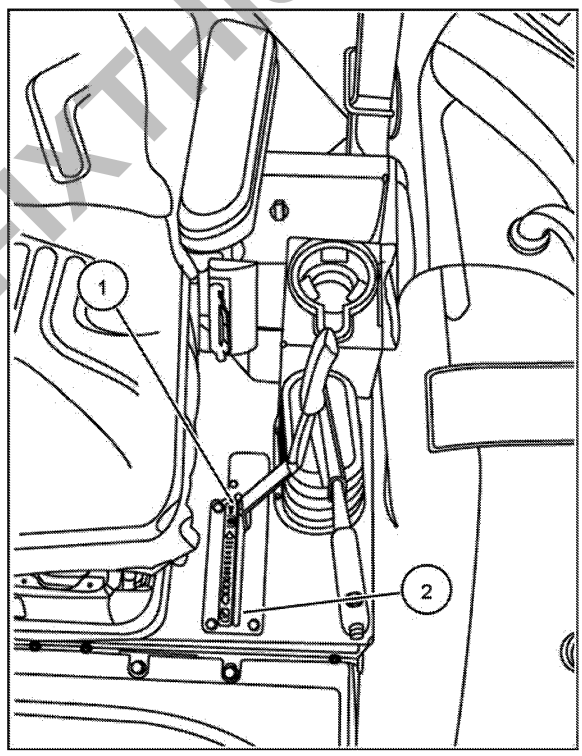
⚠ WARNING ⚠

Disengage the PTO, turn off the tractor engine and remove the key. Wait for all movement to stop before leaving the operator's position. Never adjust, lubricate, clean or unplug the machine with the tractor engine running. Failure to comply could result in death or serious injury.

M1208

Whenever you work with PTO-driven equipment, take the following precautions:

- The operator must understand the implements operator's manual before operating the tractor and the attached PTO driven implement.
- Use the appropriate PTO spline shaft based on the PTO driven implement requirements.
- Do not wear loose clothes when working with PTO-driven equipment.
- Firmly apply the parking brake, put the gear and range levers in neutral, and chock block all four tires, before working with PTO stationary equipment.
- Disengage the PTO after each use to avoid inadvertent movement of the implement when starting the tractor.
- Avoid shock loads to the PTO, reduce the engine speed to approximately 1000 rpm before engaging or disengaging the PTO.
- The operator must be familiar with the required engine rpm speed based on the type of stationary or traveling PTO operation being performed. Do not operate the PTO over 2300 engine rpm.



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Engine rpm speed	PTO shaft	PTO rpm speed
1900 rpm	6 spline	540 rpm
2060 rpm	21 spline	1000 rpm

Operating the PTO:

1. Ensure the PTO driven implement is properly secured to the tractor.
2. Confirm the PTO lever is in the disengaged position **(1)**. Start the tractor engine.
3. Slowly move the PTO lever towards the operator's seat out of the disengage detent and push the lever forward **(2)**, engaging the PTO.
4. Adjust the engine rpm with the hand or foot throttle until the appropriate PTO rpm is achieved.

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1 - GENERAL INFORMATION

Safety rules and signal word definitions

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual and on machine decals, you will find the signal words Danger, Warning, and Caution followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

⚠ DANGER ⚠

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury. The color associated with Danger is RED.

M1169A

⚠ WARNING ⚠

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.

M1170A

⚠ CAUTION ⚠

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. The color associated with Caution is YELLOW.

M1171A

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: *Notice indicates a situation which, if not avoided, could result in machine or property damage. The color associated with Notice is BLUE.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: *Note indicates additional information which clarifies steps, procedures, or other information in this manual.*

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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STARTING THE UNIT

Starting the engine

Engine start

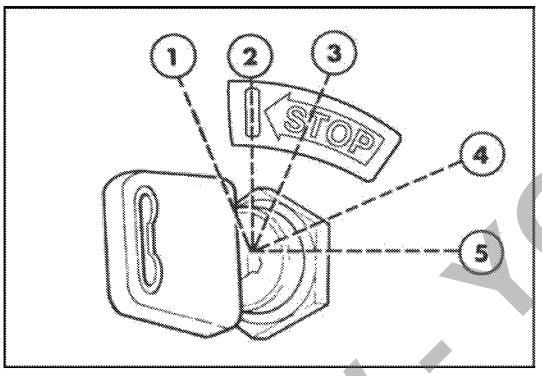
⚠ WARNING ⚠

DO NOT use ether starting fluid. Serious engine damage, explosion, death or serious personal injury could occur. Failure to comply could result in death or serious injury.

M1068B

The grid heater, which is effective at temperatures down to **-18 °C** (**0 °F**), is comprised of a heater element installed in the intake manifold.

If you are at temperatures lower than **-18 °C** (**0 °F**), there is an engine block heater available, as an accessory. This system is efficient at temperatures down to **-29 °C** (**-20 °F**), when used together with the grid heater.



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The ignition key has five positions. These positions are the following:

Position 1 – Grid heater on

Position 2 – Off Line

Position 3 – Accessories on

Position 4 – Warning lights and instruments on

Position 5 – Starter motor on

NOTICE: *Never push or tow the machine to start the engine. Use an auxiliary battery and appropriate wiring.*

NOTE: *The neutral safety switch bypasses the starter motor operation unless the shift lever is in neutral.*

Before starting the engine, always perform the following procedure:

- Sit in the operator's seat.
- Make sure the parking brake is firmly engaged.
- Make sure all the shift levers are in Neutral.
- Make sure the PTO control lever is in "Off" position.
- Place the remote control valve levers in the neutral position.
- Move the hydraulic lifter lever completely forward.
- Apply the clutch pedal.

NOTICE: *Only for turbo engines: The appropriate lubrication at engine start becomes essential due to the turbo high operation speed. In this condition, let the engine run at idle ± 1000 rpm for approximately 1 minute before using the machine.*

Hot Weather or Warm Engine starts

Place the hand throttle lever in the middle of its stroke and turn the ignition key to the position **(5)**, to actuate the starter motor. Actuate the motor until it starts, but never for a period longer than 60 seconds.

NOTE: *After the starter motor has been actuated, it is necessary to turn it to the OFF (disconnected) position so the starter motor can be actuated again.*

Move the throttle lever back to the idle position, confirm all the indicator lights turn off and they are indicating normal operation.

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