4 - OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Engine break-in procedure

Your tractor will provide long and dependable service if given proper care during the first 50-hour break-in period. During the first 50 hours of operation:

1. Avoid "lugging" the engine. Operating in too high a gear under heavy load may cause engine lugging, which is indicated when the engine will not respond to a throttle increase.
2. Use the lower gear ratios when pulling heavy loads and avoid continuous operation at constant engine speeds. You will save fuel and minimize engine wear by selecting the correct gear ratio for a particular operation. Operating the tractor in low gear with a light load and high engine speed wastes fuel.
3. Avoid prolonged operation at either high or low engine speeds without a load on the engine.
4. Check the instruments frequently and keep the radiator and oil reservoirs filled to recommended levels. Daily checks include the engine oil level, radiator coolant, and air cleaner.
5. After the first 50 hours of use, be sure to perform the maintenance items listed in the maintenance schedule.

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MAINTENANCE CHART

Maintenance Chart

Maintenance action	Grease	Tighten	Replace	Change fluid	Check	Adjust	Cleaning	Drain fluid	Bleed	Test	Page no.
Every 10 hours or daily											
Engine oil level					■						7-7
Engine cooling system					■						7-8
After first 50 hours											
Engine oil and filter				■							7-9
Fuel filter				■							7-10
Hydraulic oil filter				■							7-10
Hydrostatic (HST) oil filter				■							7-11
Roll Over Protective Structure (ROPS)					■						7-12
Wheels bolt/nut						■					7-13
Every 50 hours											
Grease fittings	■										7-14
Transmission fluid level					■						7-16
Wheels and tires					■						7-17
Clutch pedal free play					■						7-19
Hydrostatic Transmission (HST) neutral adjustment					■						7-19
Fan belt tension					■						7-22
Brake pedal free play					■						7-23
Front axle differential oil level					■						7-23
Air cleaner primary element						■					7-24
Every 100 hours											
Fuel filter water separator							■				7-25
Every 300 hours											
Engine oil and filter				■							7-26
Fuel filter				■							7-26
Hydraulic oil filter				■							7-26
Hydrostatic (HST) oil filter				■							7-26
Air cleaner primary element				■							7-27
Fan belt tension						■					7-27
Wheels bolt/nut						■					7-27
Roll Over Protective Structure (ROPS)					■						7-27
Every 600 hours											
Front axle differential fluid				■							7-28
Transmission and hydraulic fluid				■							7-29
Every 1000 hours											
Air filter inner safety element				■							7-31
Engine coolant								■			7-31
As required											
Fuel injection system									■		7-33
Fuel injectors									■		7-35
Hydrostatic Transmission (HST) neutral adjustment						■					7-36
Roll Over Protective Structure (ROPS)				■							7-38
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Headlight				■							7-41

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8 - TROUBLESHOOTING

SYMPTOM(S)

Engine - Troubleshooting

Problem	Possible Cause	Correction
The start motor does not rotate with the key switch in the (START) position.	Low battery charge	Charge or replace
	Loose battery or starter cable terminals	Tighten the terminal
	Key switch faulty	Repair or replace switch
	Safety start switch not completing circuit	Depress clutch pedal fully
	PTO safety switch is not in "OFF" position	Place PTO switch in "OFF" position
	Starter motor faulty	Repair or replace starter motor
The start motor rotates but the engine does not start	Low battery charge	Charge or replace battery
	Air in fuel system	Bleed out the air
	Fuel filter clogged	Clean or replace the filter
	Fuel shutoff valve on fuel filter in closed position	Open the valve
	Fuel shutoff solenoid on fuel injection pump stuck in off position	Check solenoid for proper operation, repair as needed
Engine speed is irregular	Air in fuel system	Bleed the fuel system
	Fuel filter clogged	Clean or replace the filter
	Injection nozzle clogged	Repair or replace nozzle
	Fuel leakage	Repair fuel system
	Irregular fuel injection	Repair or replace fuel injection pump
Engine speed is more than maximum rated high idle speed	Governor malfunction	Repair injection pump as needed
Engine stops suddenly during operation	Fuel shortage	Add fuel and bleed air from fuel system
	Faulty fuel injector	Repair or replace injector
	Faulty fuel injection pump	Repair or replace injection pump
	Internal parts of engine seized due to lack of lubrication	Repair engine as needed
Engine stops at low speed	Faulty injection pump	Repair or replace injection pump as needed
	Engine valve gap is not correct	Adjust the gap
	Low fuel injector pressure	Repair fuel injector as needed
Engine overheating	Lack of coolant	Add coolant as needed
	Fan belt slipping or belt is broken	Adjust belt tension or replace belt
	Dirt attached to the radiator or prescreen	Clean radiator fins or screen as needed
The color of exhaust smoke is white	Low engine operating temperature	Allow engine to obtain higher operating temperature
	Engine burning engine oil	Repair engine as needed
	Engine coolant entering engine exhaust	Repair engine as needed
The color of exhaust gas is black.	Air filter clogged	Clean or replace engine air filter
	Excessive fuel supply	Repair fuel injection pump as needed
	Faulty fuel injector	Repair or replace fuel injector
Low engine power	Fuel injector nozzle clogged	Repair injector as needed
	Carbon accumulation on valve seat	Repair valve and seats as needed
	Incorrect valve gap adjustment	Adjust valve gap to correct amount
	Incorrect fuel injection timing	Check and adjust fuel injection timing as needed
	Lack of fuel supply	Check fuel system for restriction
	Air filter clogged	Clean or replace air filter

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General specifications

	Model - Workmaster 35 Hydrostatic/ Gear	Model - Workmaster 40 Hydrostatic/ Gear
ENGINE		
Type	Diesel	Diesel
Model	L3BL	L3AL
Engine Gross Horsepower	**24.6 kW** (**33 Hp**)	**28.3 kW** (**38 Hp**)
Cylinders	3	3
Bore	**88 mm** (**3367 in**)	**90 mm** (**3.54 in**)
Stroke	**105 mm** (**4.13 in**)	**105 mm** (**4.13 in**)
Displacement	**1..915 l** (**116.86 in³**)	**2.003 l** (**122.23 in³**)
Compression Ratio	22.0:1	22.0:1
Firing Order	1-3-2	1-3-2
Low Idle Speed	**1120±20 RPM**	**1120±20 RPM**
Maximum Speed:		
High Idle	**2800 ±30 RPM**	**2800 ±30 RPM**
Rated	**2600 RPM**	**2600 RPM**
Valve Clearance (Cold)		
Intake	**0.25 mm** (**0.010 in**)	**0.25 mm** (**0.010 in**)
Exhaust	**0.25 mm** (**0.010 in**)	**0.25 mm** (**0.010 in**)
CAPACITIES		
Fuel Tank	**28.0 l** (**7.4 US gal**)	**28.0 l** (**7.4 US gal**)
Cooling System	**5.0 l** (**1.3 US gal**)	**5.0 l** (**1.3 US gal**)
Engine Crankcase:		
With Filter	**6.5 l** (**6.9 US qt**)	**6.5 l** (**6.9 US qt**)
Rear Axle & Transmission (Includes Hydraulics)		
Gear	**30.0 l** (**7.9 US gal**)	**30.0 l** (**7.9 US gal**)
HST	**30.0 l** (**7.9 US gal**)	**30.0 l** (**7.9 US gal**)
Front Axle	**5.5 l** (**5.8 US qt**)	**5.5 l** (**5.8 US qt**)
COOLING SYSTEM		
Type	Pressurized Liquid with Recirculating Bypass	Pressurized Liquid with Recirculating Bypass
Water Pump:		
Type	Centrifugal	Centrifugal
Drive	V-Belt	V-Belt

	Model - Workmaster 35 Hydrostatic/ Gear	Model - Workmaster 40 Hydrostatic/ Gear
Belt Deflection	**10 - 12 mm** (**0.4 - 0.47 in**) when **10 kg** (**22 lb**) pressure is applied midway between belt pulleys	**10 - 12 mm** (**0.4 - 0.47 in**) when **10 kg** (**22 lb**) pressure is applied midway between belt pulleys
Fan Diameter	**380 mm** (**15.0 in**)	**380 mm** (**15.0 in**)
Thermostat:		
Start to Open	**76.5 °C** (**170 °F**)	**76.5 °C** (**170 °F**)
Fully Open	**90 °C** (**194 °F**)	**90 °C** (**194 °F**)
Radiator Cap	**90 kPa** (**13 psi**)	**90 kPa** (**13 psi**)
ELECTRICAL SYSTEM		
Alternator	**12 V**, Heavy Duty, **50 A**	**12 V**, Heavy Duty, **50 A**
Battery	**12 V**, w/ negative ground, 660 cca BCI Group 34	**12 V**, w/ negative ground, 660 cca BCI Group 34
Starting Motor	Solenoid Pre-Engaged Reduction	Solenoid Pre-Engaged Reduction
FUEL SYSTEM		
Fuel Type	Diesel	Diesel
Type of Fuel to Use if Above **4 °C** (**40 °F**)	No. 2-Diesel, Cetane Rating: Minimum 40	No. 2-Diesel, Cetane Rating: Minimum 40
Type of Fuel to Use if Below **4 °C** (**40 °F**)	No. 1-Diesel, Cetane Rating: Minimum 40	No. 1-Diesel, Cetane Rating: Minimum 40
Injection Pump:		
Type	Rotary	Rotary
Timing	**3 °** ATDC	**3 °** ATDC
CLUTCH		
Type	**240 mm** (**9.4 in**) - Transmission 12x12 Trans	**240 mm** (**9.4 in**) - Transmission 12x12 Trans
Pedal Free-Travel	**20 - 30 mm** (**0.79 - 1.2 in**)	**20 - 30 mm** (**0.79 - 1.2 in**)
BRAKES		
Type	Wet Disc	Wet Disc
2 Disc per Side	**223 mm** (**8.78 in**) x **174 mm** (**6.85 in**)	**223 mm** (**8.78 in**) x **174 mm** (**6.85 in**)

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Power take-off (PTO) operation

Rear PTO

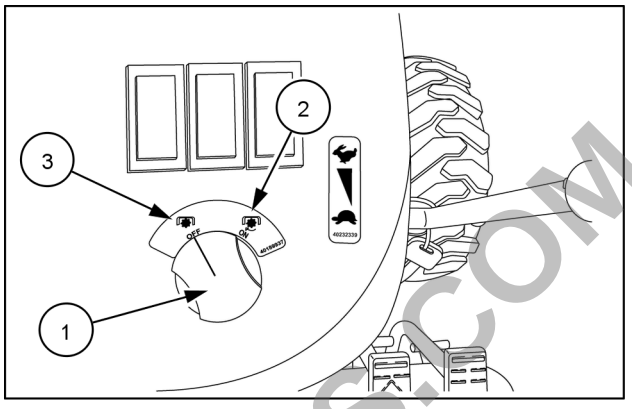
1. To engage the PTO, push the PTO switch **(1)** down and turn the switch to the "ON" position **(2)**.

   NOTE: *When the PTO is engaged the PTO indicator light will be illuminated on the instrument panel.*

2. The PTO system is totally independent of the tractor ground speed, and the following operations can be performed.

- The tractor ground travel can be stopped without stopping the PTO.
- Stop the PTO by disengaging the PTO clutch without stopping the tractor ground travel.

3. To disengage the PTO, push down on the PTO switch and the switch will automatically return to the "OFF" position **(3)**.



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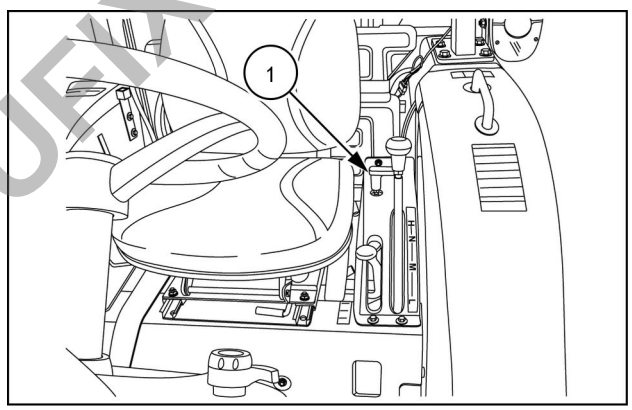
Mid PTO (Optional)

1. To engage the mid PTO, pull up on the mid PTO lever **(1)** push down on the PTO switch and turn the switch to the "ON" position.

   NOTE: *When the mid PTO is engaged the rear PTO will also be engaged. The mid PTO cannot be engaged separately.*

2. To disengage the mid PTO, push the mid PTO lever **(1)** down to the "OFF" position and , push down on the PTO switch and the switch will automatically return to the "OFF" position.

   NOTE: *To start the engine the mid PTO lever must be in the down (disengaged) position and the PTO switch in the "OFF" position.*



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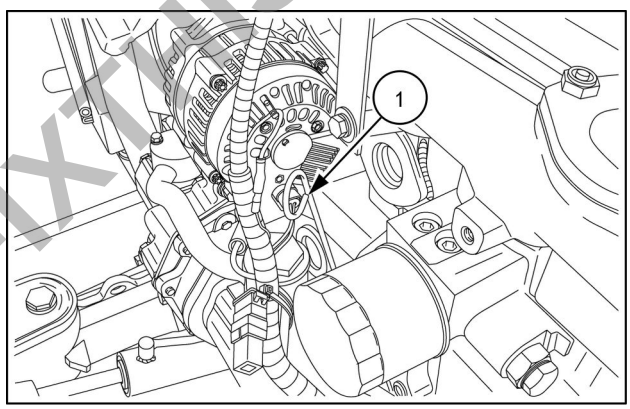
Maintenance action	Grease	Tighten	Replace	Change fluid	Check	Adjust	Cleaning	Drain fluid	Bleed	Test	Page no.
Tail/brake light bulb											7-42
Turn signal/hazard light bulb											7-43
Front wheels toe-in											7-44
Brake pedal free play											7-45
Clutch pedal free play											7-46

Every 10 hours or daily

Engine oil level

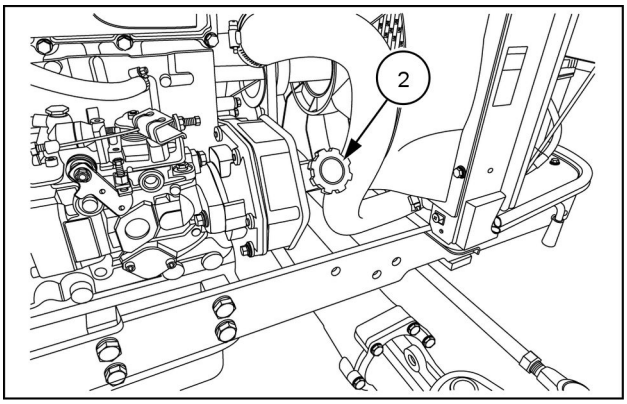
NOTE: *Check the engine oil level daily or after every 10 hours of operation.*

1. After the engine has been stopped for a period of time and with the tractor standing level, check the oil level using the dipstick **(1)**.



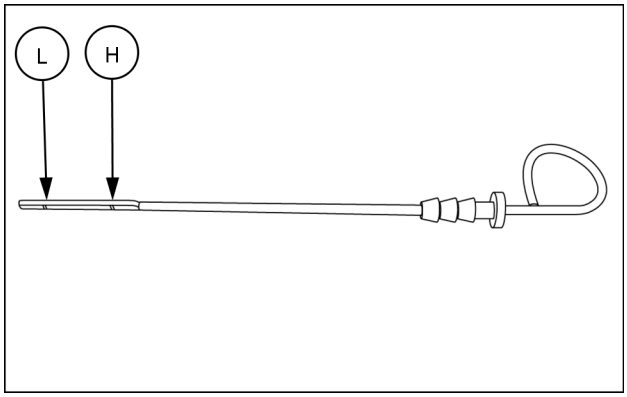
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2. If the oil level is low, remove the filler cap **(2)** add oil through the filler hole.



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3. Add enough oil so that the level registers between the two marks on the dipstick. Do not overfill.



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Problem	Possible Cause	Correction
Instrument panel engine oil pressure indicator light is "ON" during operation.	Lack of engine oil	Add engine oil as needed
	Low viscosity of engine oil	Replace oil with proper viscosity type
	Faulty pressure switch	Replace switch
	Faulty engine oil pump	Repair oilpump as needed
	Engine oil filter clogged	Replace the filter
Instrument panel battery charging indicator is "ON" during operation.	Bad electrical connection	Check battery terminals, ground, and repair as needed
	Faulty alternator	Repair or replace alternator as needed
	Faulty battery	Replace battery
	Incorrect fan belt tension or belt broken	Adjust belt tension or replace belt

Clutch - Troubleshooting

Problem	Possible Cause	Correction
Clutch slips	Incorrect adjustment of clutch pedal free play	Adjust the pedal free play correctly
	Clutch disc lining worn or broken	Replace clutch disc
Clutch does not release	Excessive clutch pedal free play	Adjust the pedal free play
	Clutch disc damaged	Repair or replace clutch disc

Hydraulic service brakes - Troubleshooting

Problem	Possible Cause	Correction
Brake does not work or only one side works.	Incorrect brake pedal free play	Adjust brake pedal free play to correct specification
	Brake disc lining worn or broken	Replace brake discs as needed
After engaging brake pedal, pedal will not return	Return spring damaged	Replace the spring
	Lack of lubrication in brake shaft linkage parts	Clean and lubricate linkage as needed
	Damaged internal brake parts	Repair internal brake parts as needed

Hydraulic Lift System - Troubleshooting

Problem	Possible Cause	Correction
The 3-point linkage will not raise	Lack of transmission / hydraulic oil	Add oil as needed
	Air in the hydraulic suction pipe	Tighten the hydraulic filter and check all hydraulic suction connections
	Hydraulic filter clogged	Replace hydraulic filter
	Faulty hydraulic pump	Check pump for proper flow replace pump if needed
	Faulty control valve	Check hydraulic control valve and linkage for proper operation repair as needed
	Faulty hydraulic lift cylinder	Repair lift cylinder as needed
	Faulty hydraulic relief valve	Check hydraulic system for correct pressure setting, repair as needed
Oil leakage	Connecting part loosened	Tighten
	Oil seal damaged	Replace
	Pipe cracked	Replace
The 3-point linkage does not move down when control handle is moved to down position.	Down speed control valve locked in closed position	Turn the knob counterclockwise, to open valve

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	Model - Workmaster 35 Hydrostatic/ Gear	Model - Workmaster 40 Hydrostatic/ Gear
STEERING		
Type	Power	Power
Turns Lock-to-Lock:		
FWD	3.92 L to R 3.30 R to L	3.92 L to R 3.30 R to L
Front Wheel		
Toe-In	**0 - 5 mm** (**0 - 0.20 in**)	**0 - 5 mm** (**0 - 0.20 in**)
Turning Radius w/o Brakes:		
FWD	**3047 mm** (**120 in**) Left turn **3297 mm** (**129.8 in**) Right turn	**3047 mm** (**120 in**) Left turn **3297 mm** (**129.8 in**) Right turn
Steering System Relief Valve Setting	**11720 kPa** (**1700 psi**)	**11720 kPa** (**1700 psi**)
POWER TAKE-OFF		
Type	Independent	Independent
Shaft Size:		
Rear PTO	**35 mm** (**1.4 in**)	**35 mm** (**1.4 in**)
Mid PTO	**25.4 mm** (**1 in**)	**25.4 mm** (**1 in**)
Engine Speed for **540 RPM** Rear PTO Operation	**2509 RPM** - HST Transmission **2509 RPM** - Gear Transmission	**2509 RPM** - HST Transmission **2509 RPM** - Gear Transmission
Engine Speed for **2000 RPM** Mid PTO Operation	**2545 RPM** - HST **2545 RPM** - Gear	**2545 RPM** - HST **2545 RPM** - Gear
Horsepower PTO Observed	**19.8 kW** (**26.6 Hp**) - HST **21.2 kW** (**28.4 Hp**) - Gear	**23.2 kW** (**31.2 Hp**) - HST **24.9 kW** (**33.4 Hp**)
Direction of Rotation (As viewed from rear of tractor)		
Rear PTO	Clockwise	Clockwise
Mid PTO	Clockwise	Clockwise
HYDRAULIC LIFT SYSTEM		
Type	Open Center	Open Center
Pump Type	Gear	Gear
Pump Capacity	**31.2 l/min** (**8.2 US gpm**)	**31.2 l/min** (**8.2 US gpm**)
System Relief Valve Setting	**16671 kPa** (**2418 psi**)	**16671 kPa** (**2418 psi**)

	Model - Workmaster 35 Hydrostatic/ Gear	Model - Workmaster 40 Hydrostatic/ Gear
TRANSMISSION SPEEDS (HYDROSTATIC)		
	(**2600 RPM** Engine Rated Speed with 11.2-24 Rear Tires)	(**2600 RPM** Engine RatedSpeed with 11.2-24 Rear Tires)
Gear Position:		
Low	**0 - 2.76 km/h** (**0 - 1.71 mph**)	**0 - 2.76 km/h** (**0 - 1.71 mph**)
Mid	**0 - 7.54 km/h** (**0 - 4.68 mph**)	**0 - 7.54 km/h** (**0 - 4.68 mph**)
High	**0 - 23.07 km/h** (**0 - 14.33 mph**)	**0 - 23.07 km/h** (**0 - 14.33 mph**)
Reverse Low	**0 - 2.63 km/h** (**0 - 1.63 mph**)	**0 - 2.63 km/h** (**0 - 1.63 mph**)
Reverse Mid	**0 - 7.17 km/h** (**0 - 4.45 mph**)	**0 - 7.17 km/h** (**0 - 4.45 mph**)
Reverse High	**0 - 21.93 km/h** (**0 - 13.63 mph**)	**0 - 21.93 km/h** (**0 - 13.63 mph**)
TRANSMISSION SPEEDS (GEAR)		
	(**2600 RPM** Engine Rated Speed with 11.2-24 Rear Tires)	(**2600 RPM** Engine Rated Speed with 11.2-24 Rear Tires)
Gear Position: Forward		
Range Low, 1st gear	**1.18 km/h** (**0.74 mph**)	**1.18 km/h** (**0.74 mph**)
Range Low, 2nd gear	**1.73 km/h** (**1.07 mph**)	**1.73 km/h** (**1.07 mph**)
Range Low, 3rd gear	**2.24 km/h** (**1.39 mph**)	**2.24 km/h** (**1.39 mph**)
Range Low, 4th gear	**2.76 km/h** (**1.72 mph**)	**2.76 km/h** (**1.72 mph**)
Range Mid, 1st gear	**3.23 km/h** (**2.01 mph**)	**3.23 km/h** (**2.01 mph**)
Range Mid, 2nd gear	**4.71 km/h** (**2.93 mph**)	**4.71 km/h** (**2.93 mph**)
Range Mid, 3rd gear	**6.12 km/h** (**3.80 mph**)	**6.12 km/h** (**3.80 mph**)
Range Mid, 4th gear	**7.54 km/h** (**4.68 mph**)	**7.54 km/h** (**4.68 mph**)
Range High 1st gear	**9.39 km/h** (**5.83 mph**)	**9.39 km/h** (**5.83 mph**)
Range High, 2nd gear	**14.42 km/h** (**8.96 mph**)	**14.42 km/h** (**8.96 mph**)

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2 - SAFETY INFORMATION

Precautionary statements

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

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

⚠ CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury. The color associated with CAUTION is YELLOW.

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

Machine safety

NOTICE: *Notice indicates a situation that, if not avoided, could result in machine damage 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 damage or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: *Note indicates additional information that 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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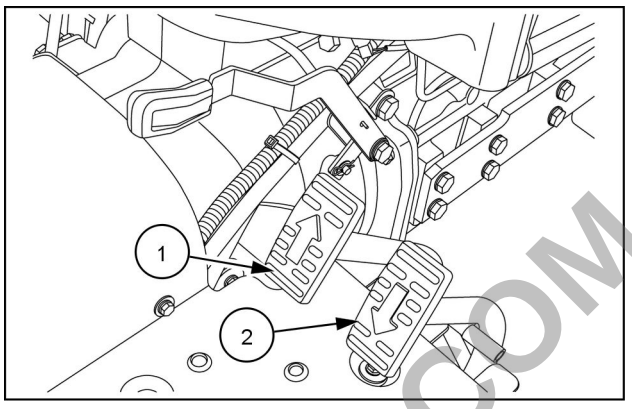
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Hydrostatic transmission (HST) operation

The ground speed of tractors equipped with a hydrostatic transmission is continuously variable, from zero to full rated speed in each range. Speed is controlled by the HST forward **(1)** and reverse **(2)** pedals located on the right-hand operators platform.



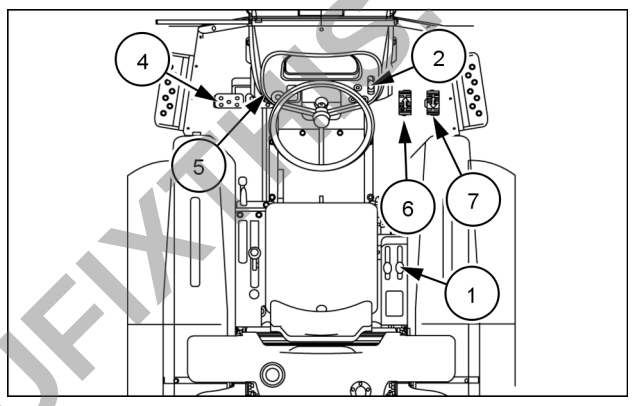
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To operate the HST transmission, carry out the following:

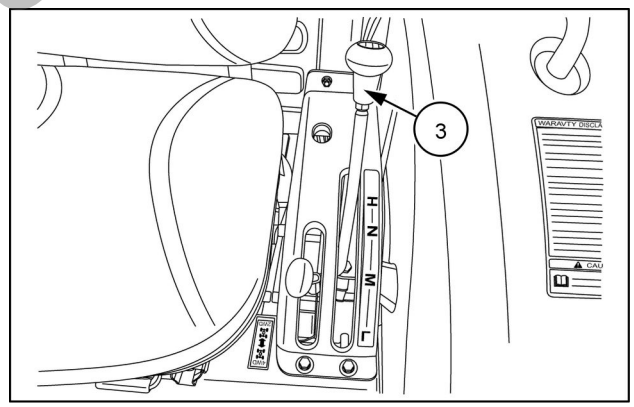
1. Start the engine and pull the HPL control lever **(1)** rearward to lift the implement off the ground (if equipped).
2. Move the hand throttle lever **(2)** forward until the engine speed is above **1500 RPM**.
3. Place the range gear shift lever **(3)** in the desired range.
4. Depress the brake pedals **(4)** and disengage the park brake lever **(5)**.
5. For forward travel, depress the forward pedal **(6)** until the desired ground speed is reached. For reverse travel, depress the rear pedal **(7)**. The transmission returns to neutral and the tractor stops when the pedal is released.

   NOTE: *Depress the HST pedals slowly, fast movement of the pedals will cause the tractor to move suddenly.*

   NOTE: *To change the range speed, release the HST pedals and bring the tractor to a stop and select the desired range.*



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