



Bobcat®

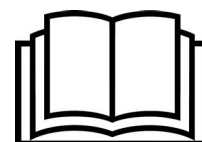
Operation & Maintenance Manual



CT1021 CT1025

Compact Tractor

(CT1021 HST) S/N B54811001 & Above
(CT1025 HST) S/N B54911001 & Above



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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat compact tractor in the spaces below. Always use these numbers when referring to your Bobcat compact tractor.

Compact Tractor Serial Number

Engine Serial Number

Loader Serial Number (If Equipped)

NOTES:

YOUR BOBCAT DEALER:

ADDRESS:

PHONE:

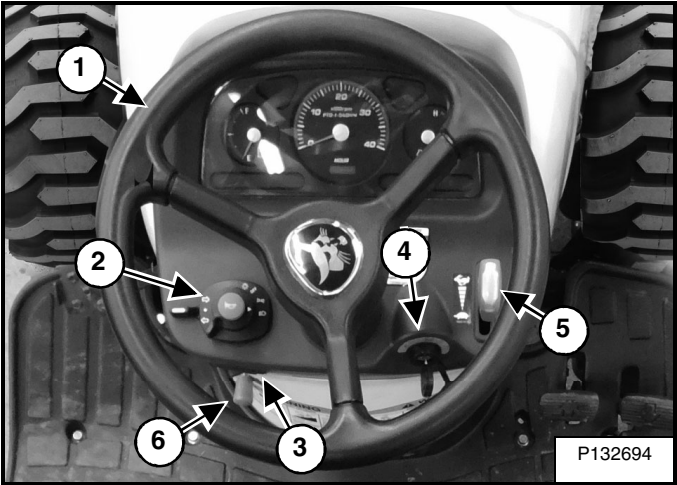
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P.O. Box 128
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Doosan Bobcat EMEA s.r.o.
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OPERATOR CONTROLS AND INSTRUMENT PANELS (CONT'D)

Instrument Panel

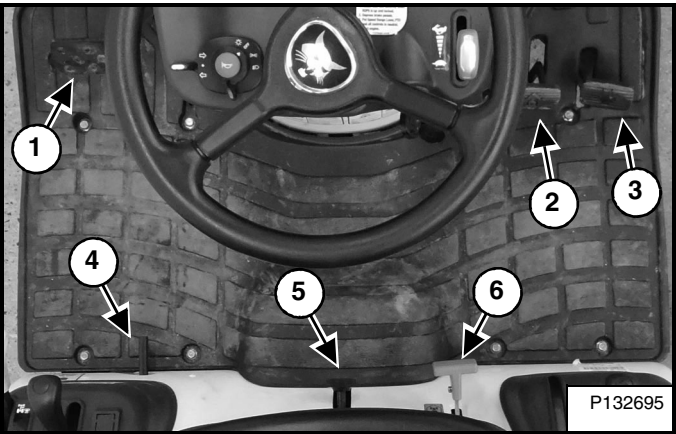
Figure 7



#	DESCRIPTION	FUNCTION / OPERATION
1	Steering Wheel	----
2	Lights / Turn Signal Switch / Horn	OFF / LOW / HIGH Beam; Lever up for right turn, Lever center position OFF, Lever down for left turn. Horn, press button to active horn.
3	Hazard / Flasher Lights Switch	Press to right to activate flasher, Press to left to turn OFF.
4	Key Switch	(See STARTING THE ENGINE on Page 46.)
5	Engine Speed Control Lever	Move lever forward to increase engine rpm, back to decrease engine rpm.
6	Parking Brake Lever (Orange)	Press down on brake pedal and move parking brake lever UP to engage parking brake. (See PARKING BRAKE on Page 29.)

Floor Controls

Figure 8



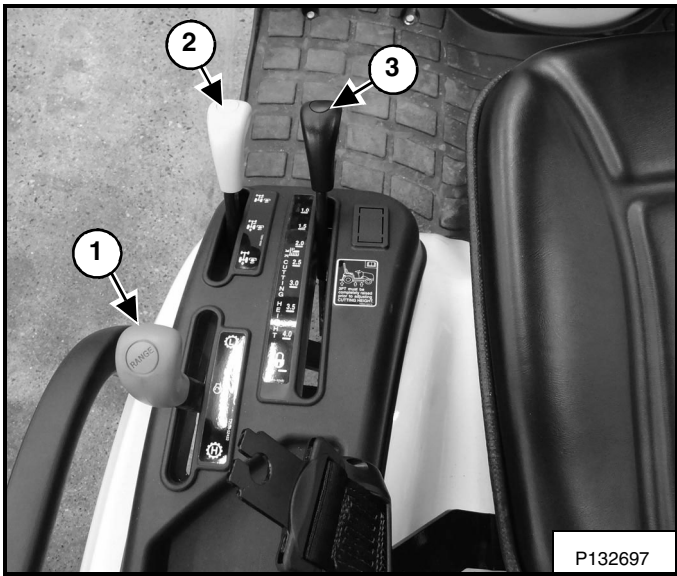
REF	DESCRIPTION	FUNCTION / OPERATION
1	Brake Pedal	Push down to engage rear brakes.
2	Forward Travel Control Pedal	Press the pedal for forward travel. The more the pedal is pressed, the faster the compact tractor will move. (See TRAVEL CONTROL on Page 30.)
3	Reverse Travel Control Pedal	Press the pedal for reverse travel. The more the pedal is pressed, the faster the compact tractor will move. (See TRAVEL CONTROL on Page 30.)
4	Rear Differential Lock	Push down and hold to engage rear axle differential lock, release pedal to disengage. (See DIFFERENTIAL LOCK on Page 31.)
5	Three-Point Hitch Lowering Speed / Lock Valve	Turn knob clockwise to slow the lowering speed of the Three-Point Hitch lower links, turn counterclockwise to increase the lowering speed. Turning the knob fully clockwise will lock the Three-Point Hitch lower links from lowering. (See Three-Point Hitch Lowering Speed / Lock Valve on Page 41.)
6	Front Wheel Assist Lever (4WD)	Move lever down to engage front wheel assist, move lever up to disengage. (See FRONT WHEEL ASSIST (4WD) on Page 33.)

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OPERATOR CONTROLS AND INSTRUMENT PANELS (CONT'D)

Left Console

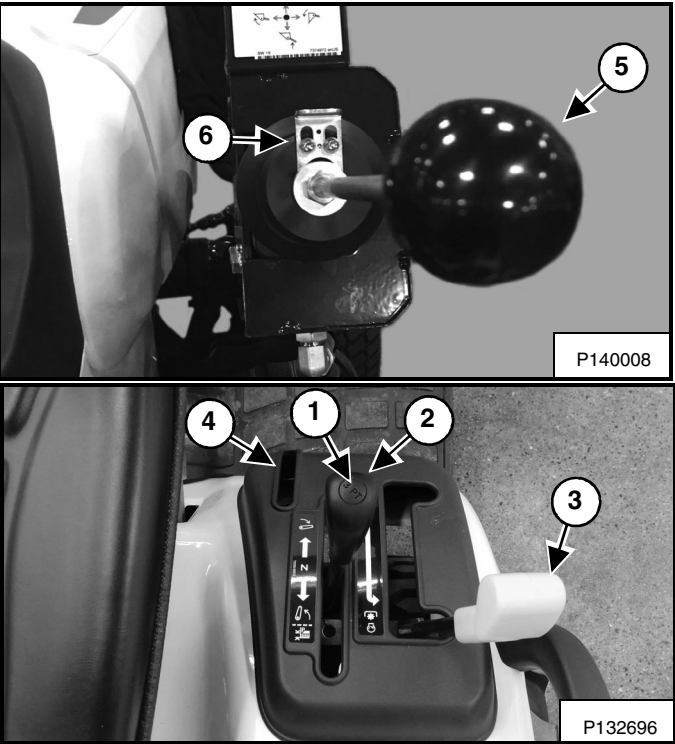
Figure 9



REF	DESCRIPTION	FUNCTION / OPERATION
1	Speed Range Lever (L-N-H)	Press the brake pedal and bring the machine to a complete stop, then move the lever for Low (L) speed range, Neutral (N), High (H) speed range. (See SPEED RANGE LEVER on Page 30.)
2	PTO Selection Lever	Move the lever back to select the rear-PTO, center position for both rear and mid PTO, and fully forward for mid PTO. (See POWER TAKE-OFF (PTO) on Page 66.)
3	Mower Cutting Height Adjustment Lever	Press the brake pedal and bring the machine to a complete stop, move the Three-Point Hitch lever (Item 1) [Figure 11] fully back so that the Three-Point Links are fully raised. Now move the mower height adjustment lever to the desired cutting height. Move the Three-Point Hitch Lever to the neutral (N) position and the mower will lower to the height selected. (See POWER TAKE-OFF (PTO) on Page 66.) NOTE: The Three-Point Hitch lever must always be to the fully raised position before the mower cutting height can be changed.

Right Console

Figure 10



REF	DESCRIPTION	FUNCTION / OPERATION
1	Three-Point Hitch Position Lever	Move lever forward to lower the Three-Point Hitch lower links, move lever back to raise the Three-Point Hitch lower links. (See THREE-POINT HITCH on Page 40.)
2	Three-Point Hitch Position Lever Stops	Rotate depth stop knob counterclockwise to loosen, set the minimum or maximum desired depth position. Turn clockwise and tighten the knob to the selected position. (See THREE-POINT HITCH on Page 40.)
3	PTO Engagement Lever	Move lever to the left, then down to the engaged position to activate the PTO system. Move left and up to the disengaged position to stop the PTO. (See REAR AUXILIARY HYDRAULICS on Page 37.)
4	Rear Auxiliary Hydraulic Lever (Rear Remote) (If Equipped)	Move lever forward to pressurize the A coupler. Move lever back to pressurize the B coupler.(See REAR AUXILIARY HYDRAULICS on Page 37.)
5	Joystick Control Lever (If Equipped)	Joystick controls the lift and tilt functions of the loader. (See LOADER CONTROLS on Page 35.)
6	Joystick Lock Lever	Locks the joystick control lever. (See LOADER CONTROLS on Page 35.)

SAFETY INTERLOCK SYSTEM (NEUTRAL START)

Safety Interlock System (Neutral Start)

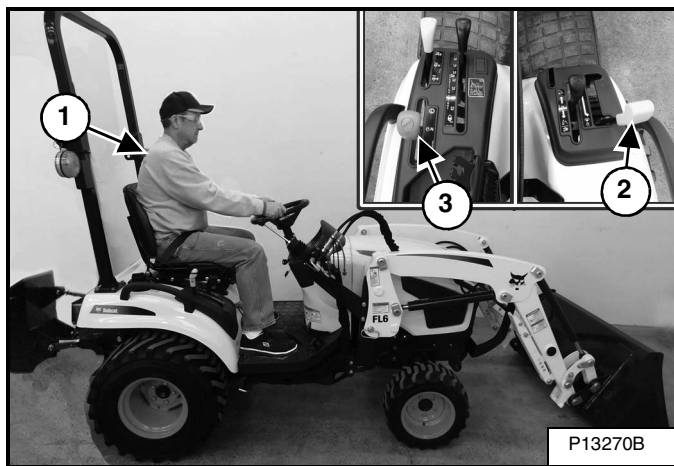
WARNING

AVOID INJURY OR DEATH

The Safety Interlock System must not allow the compact tractor's engine to be started unless: The operator is in the operator's seat, the PTO is disengaged and the speed range lever is in neutral. Contact your dealer for service if the Safety Interlock System does not function properly. **DO NOT MODIFY THE SYSTEM.**

W-3037-0719

Figure 11



The engine will not start unless all the following conditions are present:

1. The operator (Item 1) **[Figure 11]** is seated in the operator's seat.
2. The PTO lever (Item 2) **[Figure 11]** is in the disengaged (OFF) position.
3. The speed range lever (Item 3) is on the neutral position.

If the engine starts without all of the above conditions present, the compact tractor must be serviced by your Bobcat dealer.

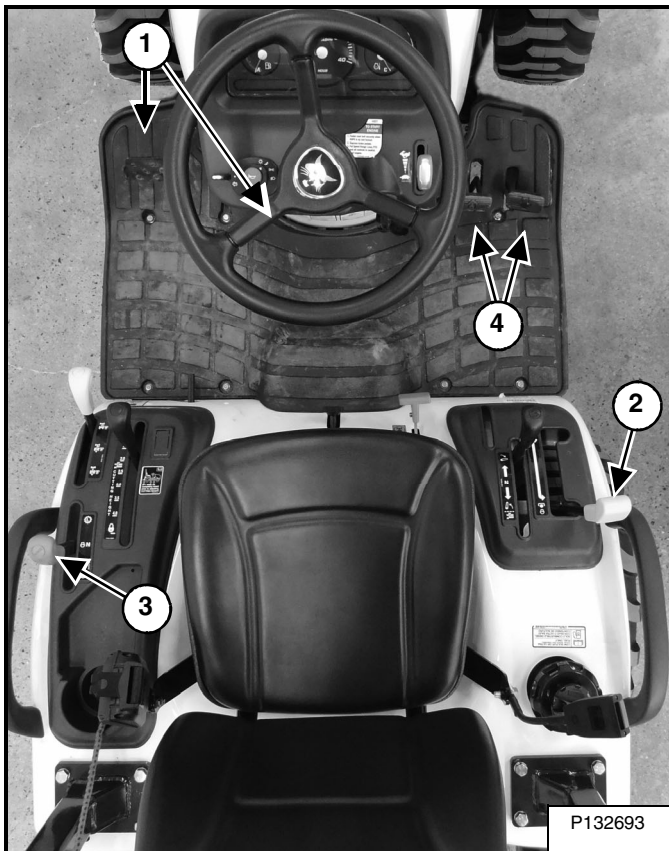
! WARNING

AVOID INJURY OR DEATH

The Safety Interlock System must shut off the engine if the operator leaves the operator's seat unless: the parking brake is engaged, the PTO lever is disengaged, and the speed range lever is in neutral. Contact your dealer for service if the Safety Interlock System does not function properly. **DO NOT MODIFY THE SYSTEM.**

W-3038-0719

Figure 12



The engine must shut off if the operator leaves the operator's seat, unless all the following conditions are present:

1. The parking brake (Item 1) [Figure 12] is engaged.
2. The PTO engagement lever (Item 2) [Figure 12] is in the disengaged (OFF) position.
3. The speed range lever (Item 3) [Figure 12] is in the neutral position.

If the engine does not shut off when the operator leaves the operator's seat without all of the above conditions present, the compact tractor must be serviced by your Bobcat dealer.

! WARNING

AVOID INJURY OR DEATH


Before you leave the operator's seat:

- Fully lower the loader arms, put the attachment flat on the ground (if equipped).
- Fully lower the implement(s) to the ground (if equipped).
- Lock brake pedals together (if equipped) and engage the parking brake.
- Place all controls in neutral.
- Stop the engine, unfasten the seat belt and remove the key.

W-3039-0719

ROLL-OVER PROTECTIVE STRUCTURE (ROPS)

ROPS Position



WARNING

AVOID INJURY OR DEATH

The foldable ROPS (if equipped) must be in the raised position with the seat belt securely fastened. For height restricted applications that require the ROPS to be in the lowered position, **DO NOT** fasten the seat belt. There is no rollover protection when the ROPS is in the lowered position. Put the ROPS in the **UP** and **LOCKED** position when the height restricted use is not required.

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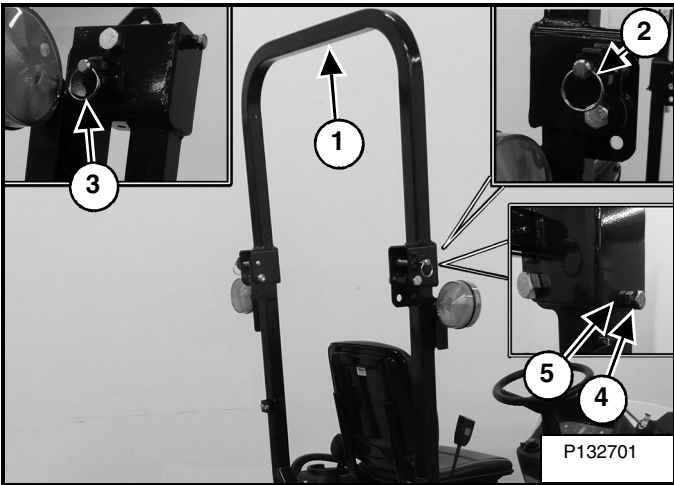
It is recommended to have the ROPS in the UP position, with the seat belt securely fastened. This will reduce the risk of serious injury in case of a rollover.

For applications that have a height restriction, the ROPS can be temporarily lowered to the down position. Do not fasten seat belt when the ROPS is in the down position.

Stop the engine, set the parking brake, exit the machine and put the ROPS in the UP and LOCKED position when the height restricted use is not required.

Raising And Lowering The ROPS

Figure 13



The compact tractor is equipped with a Roll-Over Protective Structure (ROPS) (Item 1) [Figure 13].

To Lower The ROPS:

Pull out on the pin (Item 2) [Figure 13] and rotate the pin 90° to keep the pin in the unlatched position (one side at a time).

Securely grasp the ROPS (Item 1) with one hand and pull the pin (Item 2) [Figure 13] out and rotate the pin 90° to the unlatched position. Slowly lower the ROPS.

Lower the ROPS until the pin (Item 3) can be installed into the lower mounting hole (both sides). Rotate the pin (Item 3) [Figure 13] (both sides) so the pin is secured in to the lower hole position. Pull on the ROPS to make sure it is securely held in the lowered position.

To Raise The ROPS:

Pull out on the pin (Item 3) [Figure 13] and rotate the pin 90° to keep the pin in the unlatched position (one side at a time).

Securely grasp the ROPS (Item 1) with one hand and pull the pin (Item 3) [Figure 13] out and rotate the pin 90° to the unlatched position. Slowly raise the ROPS.

Raise the ROPS to the upright position. Rotate the pin (Item 2) [Figure 13] (both sides) so the pin is secured in to the top hole position. Pull on the ROPS to make sure it is securely held in the upright position.

Tighten the bolt (Item 4) [Figure 13] firmly to the ROPS (both sides). This will reduce vibration of the ROPS structure.

Tighten the locknut (Item 5) [Figure 13] (both sides).



WARNING

AVOID INJURY OR DEATH

The ROPS must be properly secured in the raised position. Make sure that both pins are correctly installed through the mounting frame and the ROPS tube and secured with the retainer pins. Improperly installed fasteners will cause loss of ROPS protection.

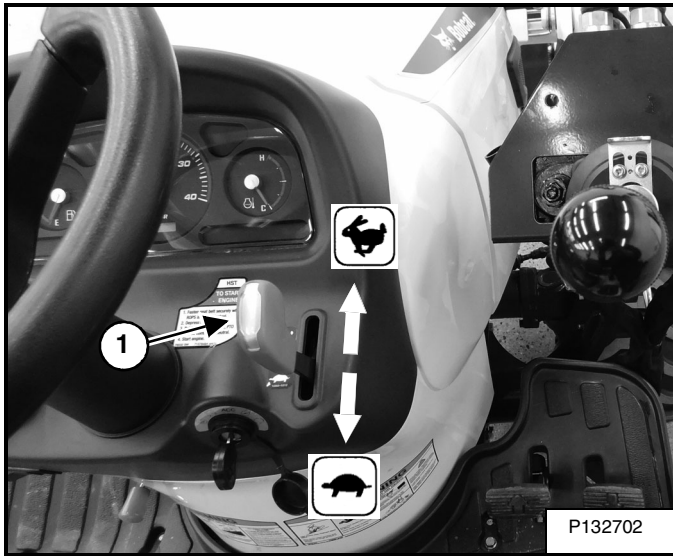
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ENGINE SPEED CONTROL

Operation

Figure 14



The engine speed control lever (Item 1) [Figure 14] is located at the right of the steering column.

Move the lever forward to increase engine speed. Move the lever backward to decrease engine speed.

PARKING BRAKE

Operation

! WARNING

AVOID INJURY OR DEATH

The parking brake must be engaged before leaving the operator's seat. Rollaway can occur because the transmission may not prevent machine movement. Lock the brake pedals together (if equipped) before activating the parking brake.

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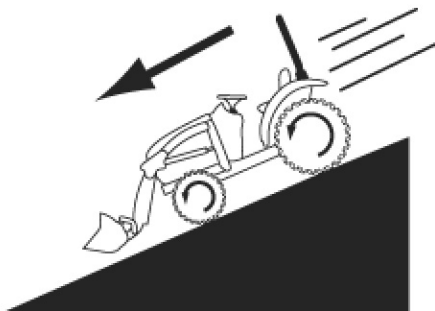
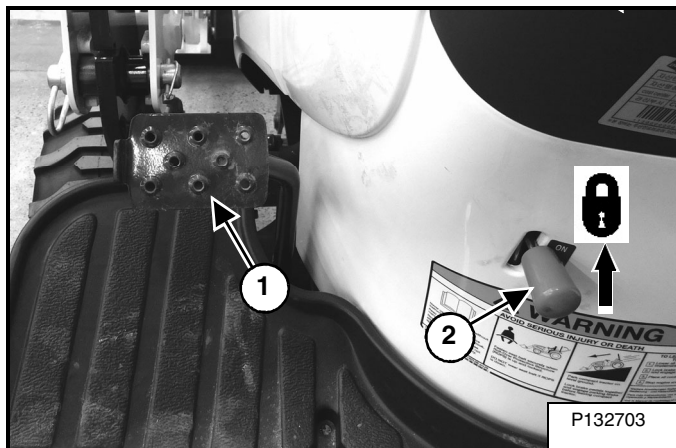


Figure 15



Press the brake pedal (Item 1) down and raise and hold the parking brake lever (Item 2) and remove foot from the brake pedal (Item 1). The brake pedal (Item 1) [Figure 15] must remain in the engaged position.

When the parking brake is engaged, the parking brake indicator light will be illuminated. (See Instrument Panel on Page 22.)


To release the parking brake, press down on the brake pedal (Item 1). The parking brake lever (Item 2) [Figure 15] will disengage.

NOTE: The brakes must be adjusted if the brake pedals can be pressed down more than the allowable limit. (See BRAKE SYSTEM on Page 116.)

TRAVEL CONTROL

Operation

Before starting the engine, verify the travel control pedals are in neutral.



WARNING

AVOID INJURY OR DEATH

When on flat level ground, the compact tractor must not move with the travel control pedal(s) in the neutral position and the speed range lever in gear. If any movement is detected, discontinue operation and contact your Bobcat dealer for service.

W-2591-0907

Figure 16



The travel control pedals are used to control the forward and backward movement of the compact tractor. The farther the pedal is pressed, the faster the travel speed.

Press the travel control pedals smoothly. Avoid sudden starting and stopping. Look in the direction of travel.

Press the travel pedal (Item 1) [Figure 16] for forward travel.

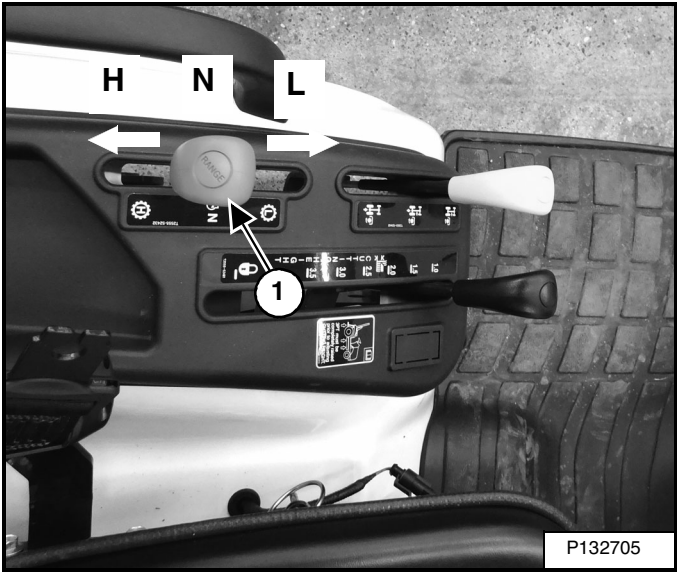
Press the travel pedal (Item 2) [Figure 16] for backward travel.

Remove foot from the travel control pedal (Item 1 or 2) and the pedal will return to neutral and slow the compact tractor to a stop. (Use the brake pedals (Item 3) [Figure 16] to assist in slowing the compact tractor.)

SPEED RANGE LEVER

Operation

Figure 17



Move the speed range lever (Item 1) [Figure 17] forward for Low (L) speed range, center for Neutral (N), or rearward for High (H) speed range.

NOTE: The compact tractor must be completely stopped, and the brake pedal pressed before moving the speed range lever.

IMPORTANT

AVOID TRANSMISSION DAMAGE

Always stop the compact tractor before shifting the speed range lever, engaging the rear differential lock or engaging the front wheel assist (4WD).

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