



Wheel Horse

Operator's Manual

B, C & D

Series

4 & 8 Speed

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WHL-O-B,C,D

Operator's Manual

"B" "C" & "D"

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Series

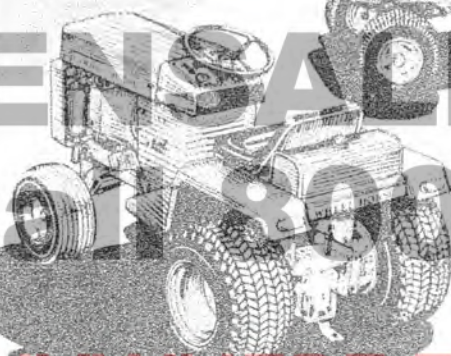
4-speed

8-speed
automatic

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Owners
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WHEEL HORSE
lawn & garden tractors

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CAUTION



This symbol marks important instructions relating to your personal safety. To avoid the possibility of injury, read and follow such instructions carefully.

When the manual refers to the left or right side of the vehicle, it means your left and right when sitting in the driver's seat.

TRACTOR SPECIFICATIONS:

ENGINE:

TRACTOR MODEL	ENGINE MODEL*	RATED H. P.**	DISPLACEMENT cu. in./cc	BORE in./mm	STROKE in./mm	IGNITION
B-81	B-191707	8	19.44/318.56	3/76.2	2.75/69.9	Magneto
B-111	B-252707	11	24.36/399.19	3.438/87.3	2.625/66.7	Magneto
C-81	K181S	8	18.6/304.8	2.94/74.7	2.75/69.8	Battery
C-101	K241AS	10	23.9/391.6	3.25/82.6	2.88/72.9	Battery
C-121	K301AS	12	29.07/476.4	3.38/85.7	3.25/82.6	Battery
C-141	K321AS	14	31.27/512.4	3.5/88.9	3.25/82.6	Battery
C-161	K341AS	16	35.89/588.1	3.75/95.3	3.25/82.6	Battery
D-160	O-BF	16	40.3/660.4	3.125/79.4	2.625/66.7	Battery
D-200	K532S	19.9	53.68/879.7	3.38/85.7	3/76.2	Battery

*Letter Prefix: B = Briggs & Stratton, K = Kohler, O = Onan. Basic engine model number shown; specification and serial numbers from engine I. D. plate are required to completely identify engine.

**Engine manufacturer's rating at 3600 RPM.

TRANSMISSION:

B-Series Models			C-Series 8-Speed Models		
Type:	Mechanical All Gear		Mechanical All Gear		
Number of Forward Speeds:	3		6		
Number of Reverse Speeds:	1		2		
Approximate Ground Speeds (at full throttle):	Gear Speed		Gear Low Range High Range		
	1st	1.7 mph (2.7 kph)	1st	.5 mph (.8 kph)	2 mph (3.2 kph)
	2nd	3.6 mph (5.8 kph)	2nd	.8 mph (1.3 kph)	3.2 mph (5.2 kph)
	3rd	5.5 mph (8.8 kph)	3rd	1.4 mph (2.2 kph)	5.5 mph (8.8 kph)
	Rev.	2.5 mph (4 kph)	Rev.	.6 mph (1 kph)	2.6 mph (4.2 kph)
C-Series Automatic Models			D-Series Automatic Models		
Type:	Hydrostatic		Hydrostatic		
Number of Forward Speeds:	Infinite		Infinite		
Number of Reverse Speeds:	Infinite		Infinite		
Approximate Ground Speeds (at full throttle):	Variable 0-6.3 mph (10 kph) Forward Variable 0-3.2 mph (5.2 kph) Reverse		Variable 0-7.5 mph (12 kph) Forward Variable 0-3.6 mph (5.8 kph) Reverse		
ELECTRICAL SYSTEM:			TIRES:		
Type:	12 Volt D.C., Negative Ground		Sizes:	Front	Rear
Alternator:	Briggs & Stratton — Dual Circuit, 12 Volt, 3 Amp. (Charging Circuit) Onan and Kohler — 12 Volt, 15 Amp.		B-81	13 x 5:00-6	18 x 8:50-8
			B-111	13 x 6:50-6	18 x 9:50-8
			C-Series	16 x 6:50-8	23 x 8:50-12
			D-Series	18 x 8:50-8	26 x 12:00-12
Battery:	B-81, B-111, C-81 — 12 Volt, 24 Amp. Hr. C-101, C-121, C-141, C-161 — 12 Volt, 32 Amp. Hr. D-160, D-200 — 12 Volt, 45 Amp. Hr.		Pressure:		
			PSI	12	12
			kg/cm ²	.85	.85

INSTRUMENTS AND CONTROLS

C-SERIES TRACTORS

CLICK ANYWHERE FOR MORE DETAILS

1. AMMETER

The ammeter is located in front of the operator, just below the dash panel. The ammeter is a gauge indicating the rate at which the battery is being charged (+) or discharged (-).

2. THROTTLE CONTROL

The throttle control is located on the right side of the dash panel. This lever controls engine speed. Raise the lever fully to operate the tractor; lower the lever to start the engine.

3. CHOKE CONTROL

The choke control is located on the left side of the dash panel. Raise the choke lever to the cold start position when starting the engine. Return slowly to Run position after the engine starts. If the engine is warm and has been running, choking may not be necessary to restart it.

4. BRAKE PEDAL (8-Speed Models)

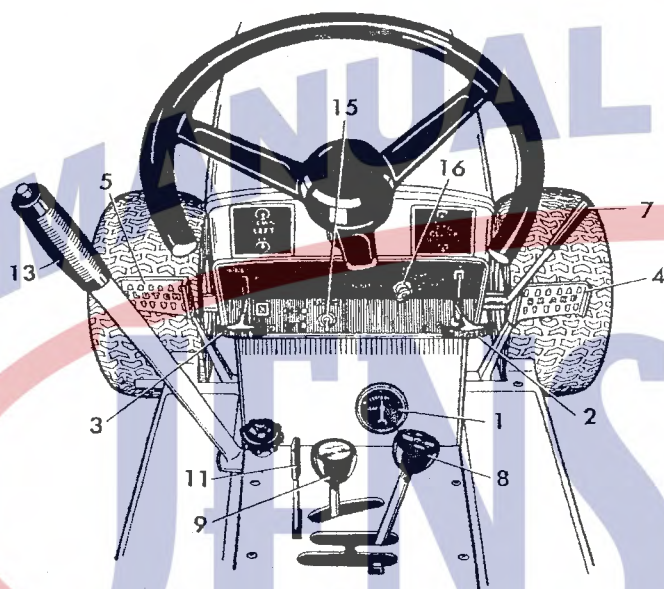
The brake pedal is located at the right side of the tractor. Pushing down on the pedal applies the brake. **Note: When coming to a stop always depress the clutch pedal as well as the brake pedal so that the transmission will be disconnected from the engine.**

5. CLUTCH PEDAL (8-Speed Models)

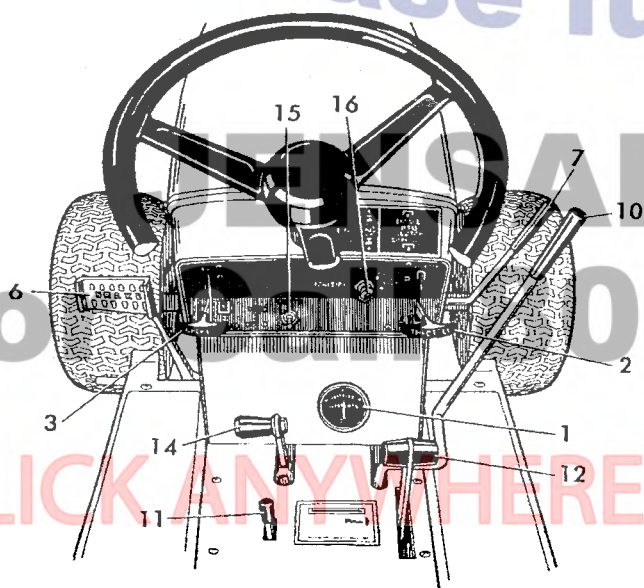
The clutch pedal is located at the left side of the tractor. Pushing down on the clutch pedal does two things: (1) Declutches the tractor drive belt, disconnecting the engine from the transmission; (2) Actuates a safety interlock switch, so the starter will operate. Engaging the clutch is done by releasing the pedal which tightens the drive belt. Always release the pedal slowly when engaging the clutch. Always depress the pedal when shifting the transmission into or out of gear and when starting the engine.

6. BRAKE/RETURN TO NEUTRAL PEDAL (Automatic Models)

The brake pedal, located at the left side of the tractor, provides dynamic braking to both rear wheels through the automatic transmission. As the brake pedal is depressed, the transmission is shifted to neutral. When the brake pedal is fully depressed, a mechanical brake is also applied for additional braking action. The pedal must be depressed when starting the engine, as the pedal linkage actuates a safety interlock switch, allowing the starter to operate.



8-SPEED MODEL WITH MANUAL LIFT



AUTOMATIC MODEL WITH HYDRAULIC LIFT

7. PTO (POWER TAKE-OFF) CLUTCH LEVER

The PTO clutch lever is located on the right side of the tractor. Power driven attachments are engaged and disengaged with the PTO lever. Push the lever forward to engage attachment. Pull the lever back to disengage attachment. The PTO clutch actuates a safety interlock switch in the starter circuit; therefore, the tractor will not start unless this lever is in the disengaged position. If the operator's seat is vacated while the PTO is engaged, a seat switch will automatically shut off the engine.

8. GEAR SHIFT LEVER (8-Speed Models)

The gear shift lever is located just in front of the seat. Select any of three forward speeds or reverse by moving the lever to the position indicated on the shift pattern decal on the gear shift knob.

9. RANGE SELECTOR (8-Speed Models)

The range selector is located in front of the seat, just forward of the gear shift lever. Select either high or low range by moving the lever right or left to the position indicated on the decal on the shift knob. Low range provides a 4 to 1 speed reduction and greater pulling power for moving heavy loads in each of the three forward speeds and reverse. **Do not use a mid-point position for neutral; neutral must be selected with the gear shift lever.**

10. MOTION CONTROL LEVER (Automatic Models)

The motion control lever is located just right of the steering wheel. Push the lever ahead to drive the tractor forward. Pull the lever back for reverse. Move the lever to the neutral (center) position to stop. The brake pedal moves the lever to the neutral position for dynamic braking. The control lever varies ground speed and pulling power of the tractor independent of engine speed. To increase ground speed, move lever away from neutral. Increase pulling power by moving lever toward neutral. The neutral position is provided with a detent type stop to give a 'perceptible feel' as the control lever passes through neutral.

11. PARKING BRAKE LEVER

The parking brake lever is located in front of the seat to the left.

To engage the parking brake, first apply the foot brake solidly and then move the parking brake lever back to lock the brake On.

To release the parking brake, push down on the foot brake. The parking lever is spring loaded and will return to the disengaged position when the foot brake is applied.

12. TRANSMISSION CLUTCH LEVER (Automatic Models)

The transmission clutch lever is located between the seat and the motion control lever. The transmission clutch lever disconnects the engine from the trans-

mission. Pull the lever up and to the rear to disconnect the transmission.

Push the lever forward and down to engage the transmission.

Always disengage the transmission when starting the engine in cold weather.

13. MANUAL LIFT LEVER (8-Speed Models, C-121 Automatic)

The manual lift lever is located just left of the steering wheel. Depress the release button and move the lever forward or backward to lower or raise attachments used with the tractor. When it is desired to hold an attachment at a certain height above the ground, the forward (down) travel of the lever can be limited by the Dial-A-Hite selector. Turn the hand knob right or left until the lift lever is held in the desired position. Always lower attachments before leaving the tractor unattended.

14. HYDRAULIC LIFT LEVER (C-161, C-141 Automatic)

The hydraulic lift lever is located on the lower dash panel, just below the choke control. Pull the lever back to lift attachment. Release lever to hold attachment in position. Push lever forward to lower attachment. The neutral position will hold an attachment at any position from full up to full down. Always lower attachments before leaving the tractor unattended.

15. LIGHT SWITCH (C-161, C-141, C-121 only)

The light switch is located on the lower portion of the dash panel, just left of center. Raise toggle to turn on lights. Lower toggle to turn lights off. Lights work only when the ignition switch is in the Run position.

16. IGNITION SWITCH

The ignition switch is located on the upper portion of the dash panel, just right of center. The ignition switch has three positions from left to right: (1) Off, (2) Run, (3) Start. To start the engine, turn the key all the way to the right. Release the key when the engine starts and it will automatically return to the Run position. When the switch is turned off, the engine stops and all electrical accessories are turned off.

17. FUEL SHUT-OFF VALVE (Not Shown)

The fuel shut-off valve is located at the bottom of the fuel tank. The fuel shut-off valve is normally left open, except when service on the fuel system becomes necessary.

18. FUEL GAUGE AND VENT CAP (Not Shown)

The gas cap is designed with a built-in fuel level gauge. Always make sure the vents in the cap are open.

4. CHOKE CONTROL

The choke control is located on the left side of the dash panel. Move choke lever forward to the cold start position when starting the engine. Return slowly to the Run position after the engine starts. If the engine is warm and has been running, choking may not be necessary to restart it.

5. THROTTLE CONTROL

The throttle control is located on the right side of the dash panel. This lever controls engine speed. Move the lever forward to operate the tractor; pull lever back to start the engine.

6. BRAKE/RETURN TO NEUTRAL PEDAL

The brake pedal, located on the left side of the tractor, provides dynamic braking to both rear wheels through the automatic transmission. As the brake pedal is depressed, the transmission is shifted to neutral. When the brake pedal is fully depressed, a mechanical brake is also applied for additional braking action. The brake pedal must be depressed when starting the engine, as the pedal linkage actuates a safety interlock switch, allowing the starter to operate.

7. PTO (POWER TAKE-OFF) CLUTCH LEVER (D-200 only)

The PTO clutch lever is located just left of the steering wheel. Power driven attachments are engaged and disengaged with the PTO lever. Push lever forward to engage attachment. Pull lever back to disengage attachment. The PTO clutch lever actuates a safety interlock switch in the starter circuit; therefore, the lever must be in the disengaged position to start the engine. If the operator's seat is vacated while the PTO is engaged, a seat switch will automatically shut off the engine.

8. PTO (POWER TAKE-OFF) CLUTCH SWITCH (D-160 only)

The PTO clutch switch is located directly in front of the operator on the lower control panel. Engagement and disengagement of power driven attachments is controlled by the PTO switch. By raising the switch to the On position power driven attachments are immediately engaged. Returning the switch to the Off position disengages attachments. The tractor will **NOT** start with the PTO switch in the On position. If the operator's seat is vacated while the PTO is engaged, a seat switch will automatically shut off the engine.

9. MOTION CONTROL LEVER

The motion control lever is located just right of the steering wheel. The motion control lever may be moved up and down in the neutral slot. Push the lever down and ahead to go forward. Lift the lever up and pull back to reverse. The brake pedal moves the control lever to neutral for dynamic braking. The control lever varies ground speed and pulling power independent of engine speed. To increase ground speed, move lever away from neutral. Increase pulling power by moving lever toward neutral.

10. PARKING BRAKE LEVER

The parking brake lever is located just below the lower control panel, directly in front of the operator. To engage the parking brake, depress brake pedal and pull the parking brake lever up and to the left. To disengage, depress the brake pedal and push lever to the right and down.

11. HYDRAULIC LIFT LEVER — Mid Lift

The mid hydraulic lift lever is located on the left side of the lower control panel. The handle points to the outside of the tractor. The mid lift lever (left lever) operates attachments connected to the mid lift such as the mid mount mower and the snowthrower. OPERATION: Move lever up to lift attachment. Release lever to hold attachment in position. Push lever down to lower attachment. The neutral position will hold the attachment at any position from full up to full down. Always lower attachment before leaving the tractor unattended.

12. HYDRAULIC LIFT LEVER — 3-Point Hitch

The 3-point hitch hydraulic lift lever is located on the left side of the lower control panel. The handle points to the inside of the tractor. The 3-point hitch lever (right lever) operates the optional 3-point hitch. OPERATION: Move lever up to lift the attachment. Release lever to hold attachment in position. Push lever down to lower attachment. The neutral position will hold the attachment at any position from full up to full down. Always lower attachment before leaving the tractor unattended.

13. LIGHT SWITCH

The light switch is located on the lower control panel, just to the right of center. Raise toggle to turn on lights. Lower toggle to turn lights off. Lights work only when the ignition switch is in the Run position.

14. IGNITION SWITCH

The ignition switch is located on the right side of the lower control panel. The ignition switch has three positions from left to right: (1) Off, (2) Run, (3) Start. To start the engine, turn the key all the way to the right. Release the key when the engine starts and it will automatically return to the Run position. When the switch is turned off, the engine stops and all electrical accessories are turned off.

15. FUEL GAUGE AND VENT CAP (Not Shown)

The gas cap is designed with a built-in fuel level gauge. Always make sure the vents in the cap are open.

16. FUEL SHUT-OFF VALVE (Not Shown)

The valve is located at the bottom of the fuel tank and is accessible from the rear of the tractor. The fuel shut-off valve is normally left open, except when service on the fuel system becomes necessary.