150 and 190 Garden Tractors

Operator's Manual

9-1851

Reprinted

CASE

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SAFETY PRECAUTIONS



1. Before starting the engine, be sure all operating controls are in NEUTRAL and the tractor is on a flat, level surface.
2. Never operate any of the controls from any position but seated in the operator's seat.
3. Be extra careful when going down steep grades.
4. Drive at a speed slow enough to insure safety and complete control, especially over rough terrain.
5. Reduce ground speed when making a turn, going down hill or applying the hydraulic brake.
6. Always operate the tractor in low range whenever on hills or steep inclines.
7. Never park the tractor on a hill or incline.
8. Change direction of tractor only at low ground speed and low engine RPM.
9. Never leave the engine running while it is unattended.
10. Never dismount from a Tractor when it is in motion.
11. Never permit persons other than the operator to ride on the Tractor.
12. Never stand between a Tractor and machine when hitching unless the speed-control lever is in neutral and the brake is engaged and locked.
13. Do not oil, grease or adjust a Tractor when the engine is running.
14. Never refuel a Tractor when the engine is hot or running.
15. Do not smoke when refueling.
16. Never operate a Tractor in a closed shed or garage.
17. Do not wear loose fitting clothing which may catch in the moving parts.
18. To prevent highway accidents, use red warning flags in the daytime and red warning lamps at night.
19. Always have PTO lever disengaged and the brake pedal depressed and locked when parking or starting the Tractor.
20. REMEMBER, A CAREFUL OPERATOR IS ALWAYS THE BEST INSURANCE AGAINST AN ACCIDENT.

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SPECIFICATIONS

General

	150	190
Type	Kohler	Kohler
Model	K241A	K301A
Cycle	4	4
Cylinders	1	1
Cylinder Bore	3-1/4 in.	3-3/8 in.
Stroke	2-7/8 in.	3-1/4 in.
Piston Displacement	23.9 cu. in.	29.07 cu. in.
Horsepower	10 HP	12 HP
Compression Ratio	6 to 1	6 to 1
Full Load Speed	3500 RPM	3500 RPM
No Load Speed	3600 RPM	3600 RPM
Idle Speed	1000 RPM	1000 RPM
Valve Clearance Cold (Intake)	.010 in.	.010 in.
Valve Clearance Cold (Exhaust)	.020 in.	.020 in.

Piston and Connecting Rod

Piston	Aluminum
Compression Rings	2
Oil Rings	1
Connecting Rod	Aluminum

Fuel System

Carburetor	1" SAE Flange
Filter Screen	In Sediment Bowl
Fuel Tank Capacity	5 Quarts

Ignition System

Breaker Point Gap	.020 in.
Ignition Timing	SP Mark
Spark Plug	Prestolite 14 L7 or equivalent
Thread	14 MM
Gap	.025"

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STARTING PROCEDURE

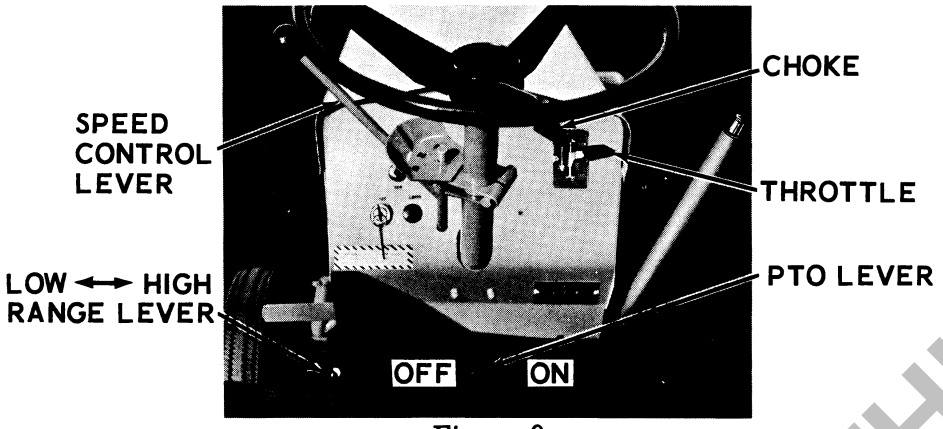


Figure 9

1. Place the speed control lever in the NEUTRAL position.
2. Place the PTO lever in NEUTRAL position.
3. Engage and lock the brake pedal.
4. Close the choke by pushing the control lever down. More or less choking may be necessary due to variations in temperature, grade of fuel, etc. Little or no choking will be needed when engine is warm. In cold weather, it is advisable to position the throttle lever about one-third open.
5. Turn the starter key to the right to start engine; then release key.
6. After the engine starts and runs, push the choke control lever all the way up. Always allow engine to warm up before applying a load. Release the brake pedal slowly after engine starts. If speed control lever is in proper NEUTRAL position, Tractor will not move.

CAUTION DO NOT USE THE STARTER-GENERATOR LONGER THAN 30 SECONDS WITHOUT INTERRUPTION. WAIT AT LEAST 3 MINUTES SO THE STARTER-GENERATOR CAN COOL OR SERIOUS DAMAGE COULD RESULT.

STOPPING THE ENGINE

1. An engine that has been working under load should idle for a few minutes so the engine parts can cool evenly before it is shut off.
2. Turn starter key to "OFF" or upright position.

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REF. NO.	SERVICE POINTS	NO. OF POINTS	GREASE	DRAIN	CHECK	CLEAN	CHANGE	OIL (Few Drops)	FREQUENCY
1	Front Spindles	2	▪						
2	Front Wheel Bearings or Bushings	2	▪						(5) HOURS OR DAILY
3	Engine Oil *	1		▪					
4	Blower Air Intake Screen	1		▪	▪				
5	Engine Oil	2		▪			▪		
6	Air Leaks **	**							
7	Tie Rod and Drag Link	4						▪	
8	Implement Lever and Release	3						▪	(25) HOURS OR WEEKLY
9	Battery	1		▪					
10	Air Cleaner ***	1		▪	▪				
11	Brake Pedal and Lock	2						▪	
12	Throttle and Choke Controls	2						▪	
13	Steering Gear Box °°°	1	▪						
14	Spark Plug °	1		▪					(100) HOURS OR MONTHLY
15	Crankcase Breather ***	1			▪			▪	
16	Breaker Points °	1		▪					
17	Speed Control Bracket and Pivot Points °°	1						▪	
18	Transmission Oil +	2		▪			▪		
19	Transmission Filter Screen	1			▪				
20	Oil Cooler Fins ***	1			▪				(1000) HOURS OR YEARLY
21	Air Cleaner Element ***	1					▪		
22	Engine Cooling Fins ***	1			▪				

*Keep oil level between marks on gauge (Capacity 3 pts.)

**Be sure there are no leaks between gaskets, joints at carburetor, air cleaner and cylinder block

***More often in dusty conditions. For Air Cleaner Service See Page 20

°Clean and regap. See Pages 22 and 23

°°Use a good grade wheel bearing grease

°°°One stroke - Do not overlubricate

+Maintain oil level one inch from top cover. Use SAE 5W20 Motor Oil in winter (below 32° F.) and SAE 20W40 Motor Oil in summer. Use only MS or DM Service Classification Oil that has passed Automotive Manufacturers Association (AMA) Test Sequences I, II, and III.

Use number 1 gun grease (Lithium Base) for all pressure fittings (As many strokes as required).

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OPERATING CONTROLS AND INSTRUMENTS

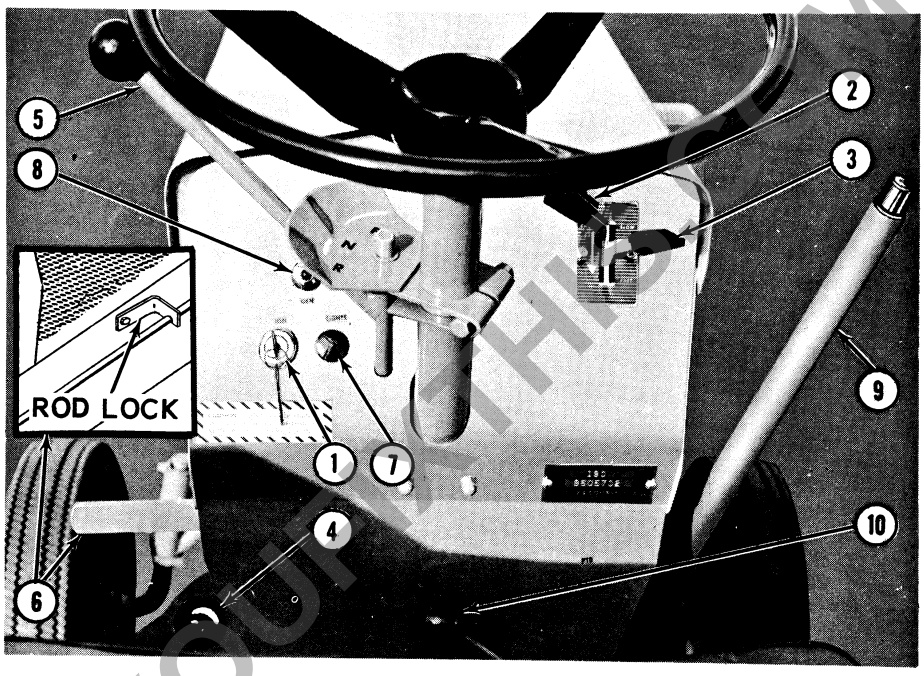


Figure 7



1. STARTER KEY - Turn the key to the right to start the engine. When turning off the engine, turn the key to the left and the key will be in an upright position. Do not turn the key all the way to the left as this is the accessory position.

   DO NOT START THE ENGINE WITH THE PTO ENGAGED.

2. CHOKE - To start a cold engine, push choke lever down. Push lever up when engine is warmed up.

3. THROTTLE - When the throttle lever is all the way up, the engine should be idling. To increase the engine RPM, push the lever downward until the desired throttle setting is obtained.

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NOTICE

At the time your Case Dealer delivers your new tractor, he will acquaint you with its operation and maintenance as outlined in the "Delivery Procedure and Warranty Registration". When your Dealer has completed these instructions, he will ask you to sign the report and will then hand you a copy for your records.

NOTE

The "Delivery Procedure and Warranty Registration" also contains a record of the Pre-Delivery Checkup which your Dealer made on your tractor.

AFTER DELIVERY CHECKUP

The Authorized Case Dealer from whom you purchased your new tractor will perform the "After Delivery Checkup" outlined on the following page, if you will arrange to bring your tractor to his Service Shop within - - -

60 days after date of delivery or 200 hours of operation (whichever occurs first).

NOTE

The only charge your dealer will make for this inspection will be for oil, filters, or other accessories.

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