



®

**GRAVELY**

**408  
LAWN TRACTOR  
OWNER'S  
MANUAL**

 **GRAVELY**  
CORPORATION  
ONE GRAVELY LANE  
Clemmons, North Carolina 27012



FIGURE 1

## INTRODUCTION

**THANK YOU** for your investment in Gravely equipment. It is an investment, for your Gravely 408 will save you work and worry for many years.

Numerous independent dealers and factory branches handle Gravely equipment. All are ready to give prompt and efficient service, with parts in stock and personnel trained in factory-service methods.

Your Gravely 408 and attachments are warranted under terms shown herein. To qualify for this Warranty, you must register your equipment by completing the enclosed Registration Card and returning it. For your own protection, please do this right away.

Your 408 will give you long years of highly satis-

factory performance if maintained and operated as outlined in this manual.

It is important that you record the serial number of your tractor. It is located on the frame under the seat and is 408-\_\_\_\_\_.

Also, it is important you record the model number, specification number and number of the engine. They are located on the plate on the engine blower housing and are model number \_\_\_\_\_, specification number \_\_\_\_\_, and serial number \_\_\_\_\_. Please refer to these numbers in any correspondence with the factory or dealer regarding this unit.

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## SPECIFICATIONS

Engine .....	Kohler K181
Horsepower .....	8 @ 3600 rpm
Oil Capacity .....	2½ pints
Oil Recommendation	
Summer .....	SAE 30 MS
Winter .....	SAE 5W20 MS
Transmission .....	4 forward 4 reverse
Oil capacity & type ...	3 qts. SAE 90W EP
Speed Range (mph) ....	Forward    Reverse
1 gear .....	1.6            .7
2 gear .....	2.7            1.1
3 gear .....	3.6    1.6
4 gear .....	5.4    2.4
Tire size — front .....	13 x 5.00-6
Pressure .....	12 psi
Tire size — rear .....	18 x 8.50-8
Pressure .....	6 psi
Length .....	56 inches
Width .....	33 inches
Height .....	32¼ inches
Net Weight .....	372 lbs.

# SAFETY PRECAUTIONS

READ THE OWNER'S MANUAL.  
IT IS TOO LATE TO REMEMBER  
WHAT SHOULD HAVE BEEN DONE  
AFTER THE ACCIDENT HAS HAPPENED.

Recommended by Outdoor Power Equipment Institute

Many hours of lost time and much suffering can be caused by the failure to practice simple safety rules.

1. Do not allow children to operate machine or adults to operate it without proper instructions.
2. Clear work area of objects which might be picked up and thrown.
3. Know the controls and how to stop quickly — READ THE OWNER'S MANUAL.
4. Disengage all Clutches before starting the engine.
5. Don't direct the discharge of material toward bystanders.
6. Always stop the engine and remove key when you leave your machine.
7. Handle gasoline with care! It is highly inflammable! Use approved gasoline container.
8. Do not add fuel when the engine is running, while the engine is hot or while you're smoking.
9. Never run the engine in a closed garage or shed. Exhaust gases are dangerous.
10. Watch out for traffic when near roadways.
11. Stay alert for holes and other hidden hazards.
12. Keep all shields and safety devices in place, as instructed in Owner's Manual.
13. Watch where you're driving! Pay attention!
14. Disengage power to any attachment and stop engine before leaving operator's position or making repairs or adjustments.
15. Beware of steep slopes.
16. Reduce speed on all side slopes and sharp turns to prevent tipping or losing control.
17. Do not attempt to operate machine when not in normal operator's position.
18. Don't wear loose fitting clothing that might get caught in moving parts. Keep your hands and feet away from moving parts.
19. Do not carry passengers! Keep children and pets at a safe distance.
20. Disengage power to attachments when transporting or not in use.

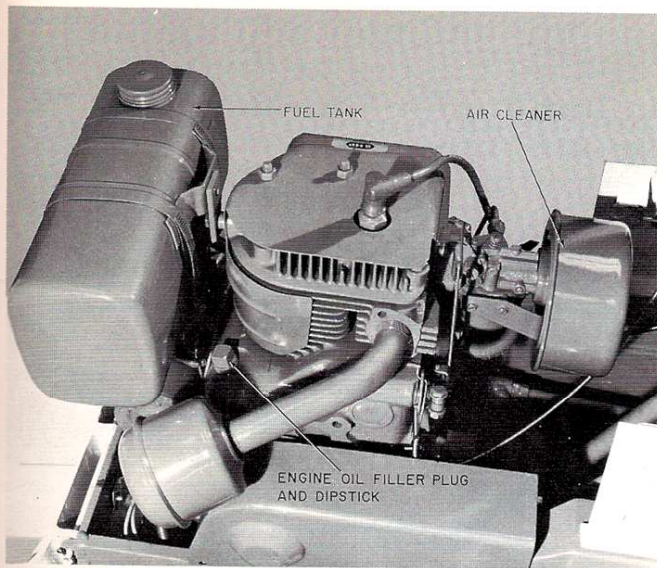


FIGURE 2

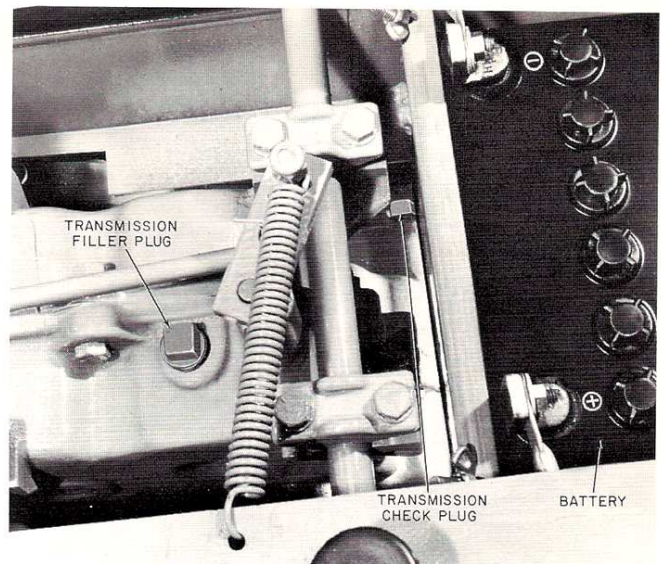


FIGURE 3

## MAINTENANCE

### LUBRICATION

#### Transmission

Capacity 3 U.S. quarts. Use SAE 90W EP multi-purpose gear lubricant. Check level every 50 hours of operation. Change lubricant every 200 hours of operation. Drain plug is on right side of transmission housing near bottom.

#### Engine

Capacity 2½ U.S. pints. Use API classification MS oils, summer SAE 30, winter SAE 5W20.

Daily check oil level, maintain between "L" and "F" marks — level must not exceed "F" mark. Change oil after 5 hours of operation and then every 25 hours or oftener under dusty conditions. Drain plug is in the bottom of the oil base on the under side of the engine.

#### Greasing

There are 9 grease fittings on the tractor. Grease with general purpose grease every oil change.

- A. Steering gear support — 1
- B. P.T.O. arm — 2
- C. Front axle — 3
- D. Front wheels — 1 each
- E. Belt idler pulley arm — 1

Apply a thin layer of grease on the teeth of the steering gears each time the tractor is greased.

NOTE: Anytime the tractor is washed or "hosed off" it should be greased to force any moisture out of bearings and bushings.

Periodic lightly oiling of all pivot points of linkage aids operation.

### ROUTINE MAINTENANCE

#### Air Cleaner

Clean or replace when necessary. A loss of power is an indication that air cleaner service is required.

The air cleaner element should be cleaned by gently tapping on a flat surface. Replace the element if it is bent, crushed or damaged in any way.

When reinstalling, be sure the element fits the adapter plate and the wing nut on the cover is finger tight.

#### Tires

Front tires — Maintain pressure at 12 psi

Rear tires — Maintain pressure at 6 psi

#### Spark Plug

Gap — .025 inch.

#### Valves

Intake clearance (cold) — .006/.008

Exhaust clearance (cold) — .015/.017

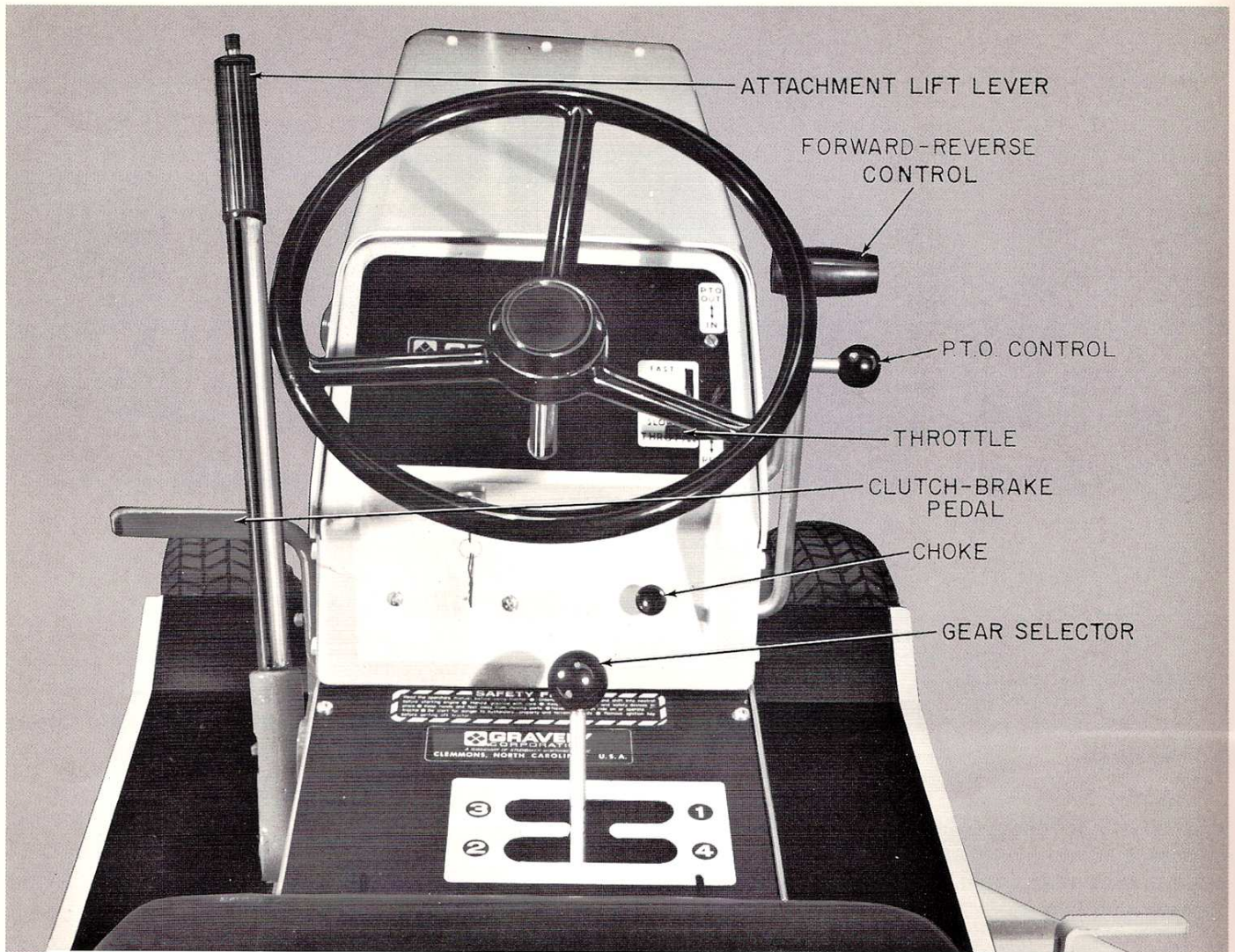


FIGURE 4

## OPERATION

### Before Starting

1. Check fuel level in fuel tank. Capacity is 4 quarts. Use a high quality regular grade gasoline.
2. Check oil level in engine.
3. Check to see if PTO is in "OUT" position.
4. Check to see if Gear shift is in neutral.

### Starting

1. Be sure tractor is in neutral and PTO is in "OUT" position.
2. Pull choke control out.
3. Move throttle control to about half throttle.
4. Turn key to start engine, release when engine fires.

**CAUTION:** Do not hold starter control engaged more than 15 seconds without allowing a cooling period for the starter motor.

5. As engine warms up, push choke control in.

### Starting Tractor Movement

1. Fully depress clutch-brake pedal, and move gear shift to desired gear, and while holding clutch-brake pedal, fully depressed, move forward-reverse control for desired direction. **NOTE:** Be sure to fully depress clutch-brake pedal to engage belt brake to stop belt movement.

2. Slowly release clutch-brake pedal.

### Stopping

1. Depress clutch-brake pedal.
2. Move gear shift lever to neutral.

**NOTE:** There is NO neutral position of the forward-Reverse Control.

### Storage

1. Stop tractor motion, secure brake lock.
2. Turn off engine and remove key.
3. Lower attachment to floor.

# ATTACHMENTS

## 34" ROTARY MOWER

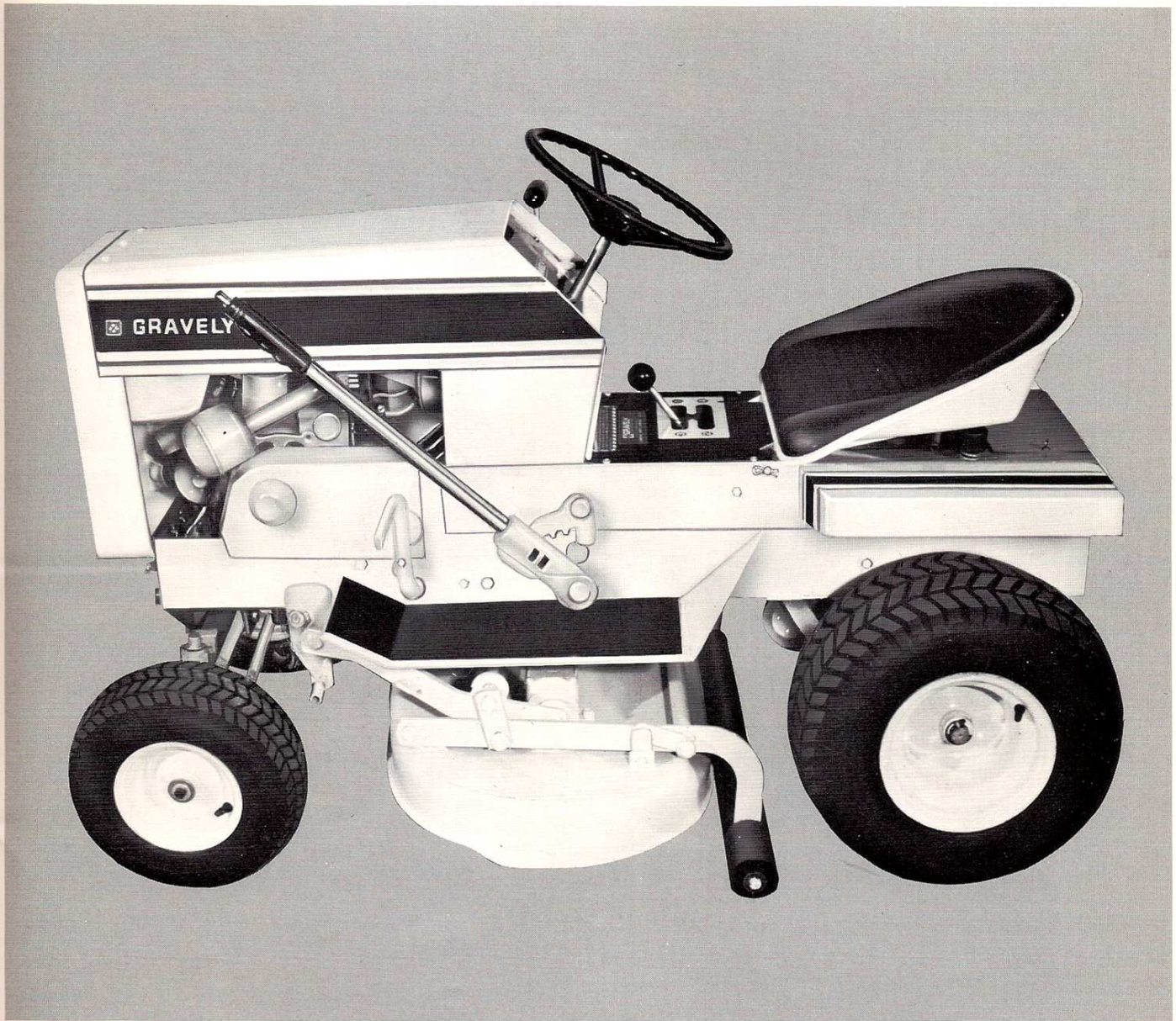


FIGURE 5

### Attaching:

Slide the mower under the tractor.

Place the Mower Drive belt on the pulley of the mower and on the PTO pulley of the tractor. The idler on the mower frame runs on the back of the belt.

Insert the Mower Lift Pivot Assembly in the second hole from the end of the lift lever weldment, then rotate the lift assembly until the ball joint socket is down.

Be sure the Attachment Lift Lever is in the lowest

position. Then attach the lift assembly to the ball stud on the mower.

Open the Attachment latches on the tractor. Raise the mower with the Attachment Lift Lever guiding the mower frame into the latches. Close the latches and secure with hair pin cotters.

The mower cutting height is adjusted by the lever on the quadrant at the right side of the mower. (See Figure 1).

NOTE: Performance is best at full throttle. Use transmission to select ground speed rather than throttle setting.

## Warranty

Gravely Tractors and Attachments are warranted to be free from defective material and workmanship for a period of one year from purchase date under normal use by a homeowner; and for a period of ninety days from date of purchase when used for commercial purposes. All defective parts will be replaced without charge provided such parts are certified as defective by the manufacturer, and provided the parts have not been damaged through neglect, accident or misuse.

### IMPORTANT

**This warranty is not subject to change or modification by Field representatives or Gravely Dealers. Any warranty other than the warranty listed above will not be binding upon the manufacturer.**

**This warranty is not valid unless within fourteen (14) days after date of purchase the "Warranty Registration Card" is mailed to:**



ONE GRAVELY LANE  
Clemmons, North Carolina 27012

To continue its program of quality and design improvement, the manufacturer reserves the right to change specifications, design or prices without notice and without incurring obligation.

FOR MODEL 15458E1  
FORM NO. 17297P1 (5-70)

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