

®

GRAVELLY

408

LAWN TRACTOR

OWNER'S

MANUAL

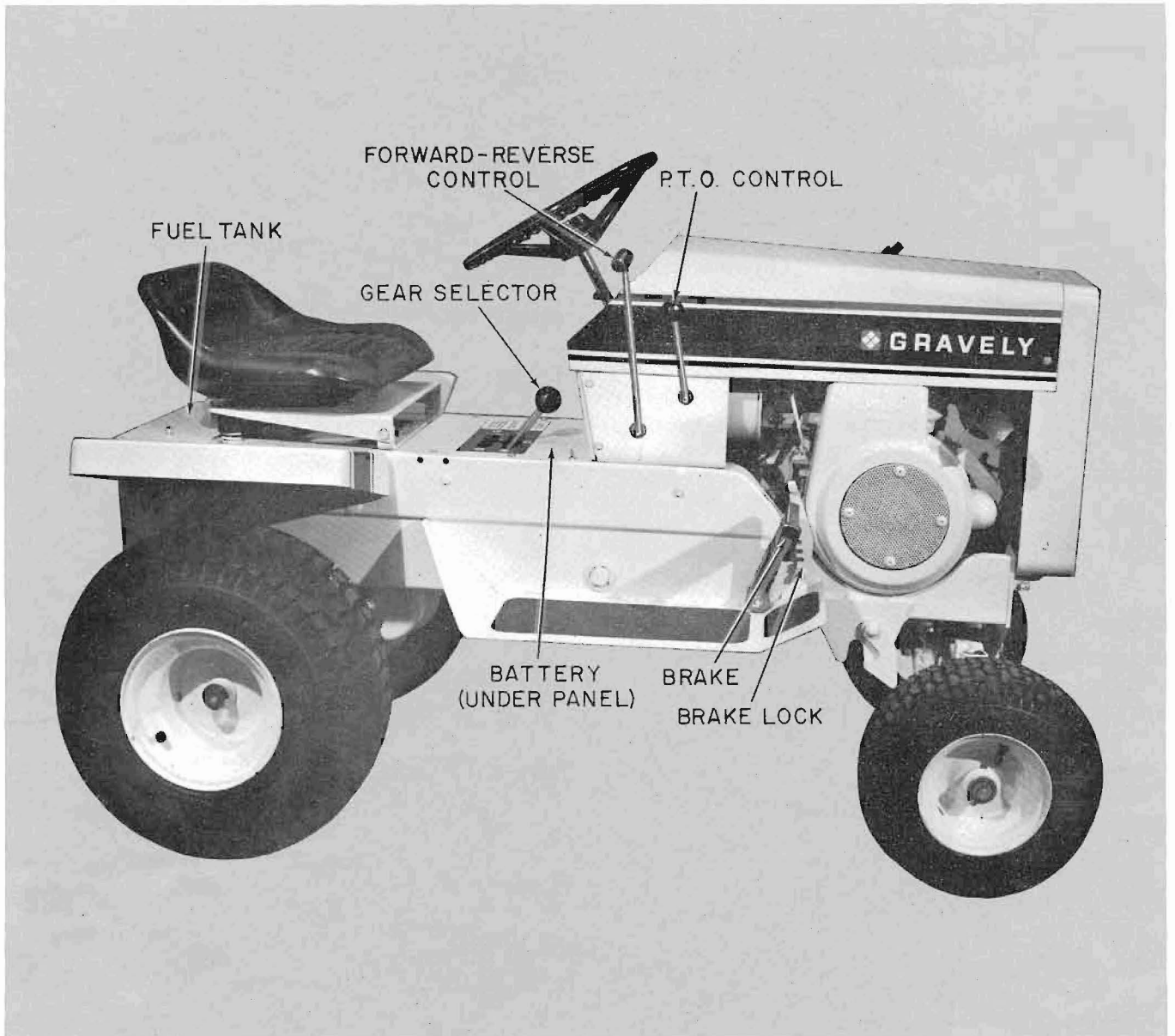


FIGURE 1

INTRODUCTION

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

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

Your Gravelly 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 XXXXXXXXXX.

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 K1815, 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 | 56.5 inches |
| Width | 33 inches |
| Height | 37 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.

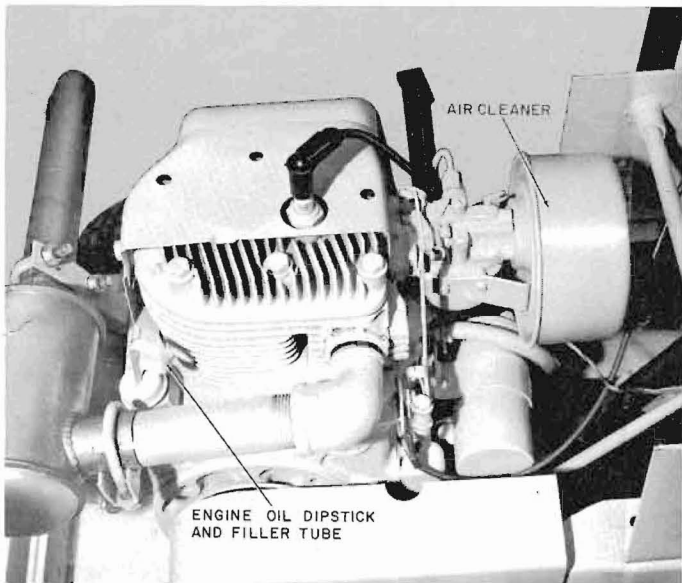


FIGURE 2

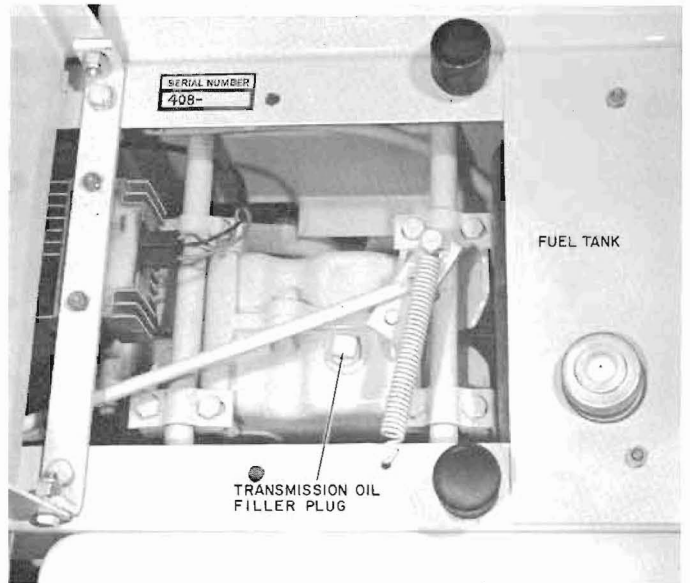


FIGURE 3

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. Level plug and drain plug are 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.

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.

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 oiling lightly of all pivot points of linkage aids operation.

Battery

Regularly check fluid level. Maintain at proper level.

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

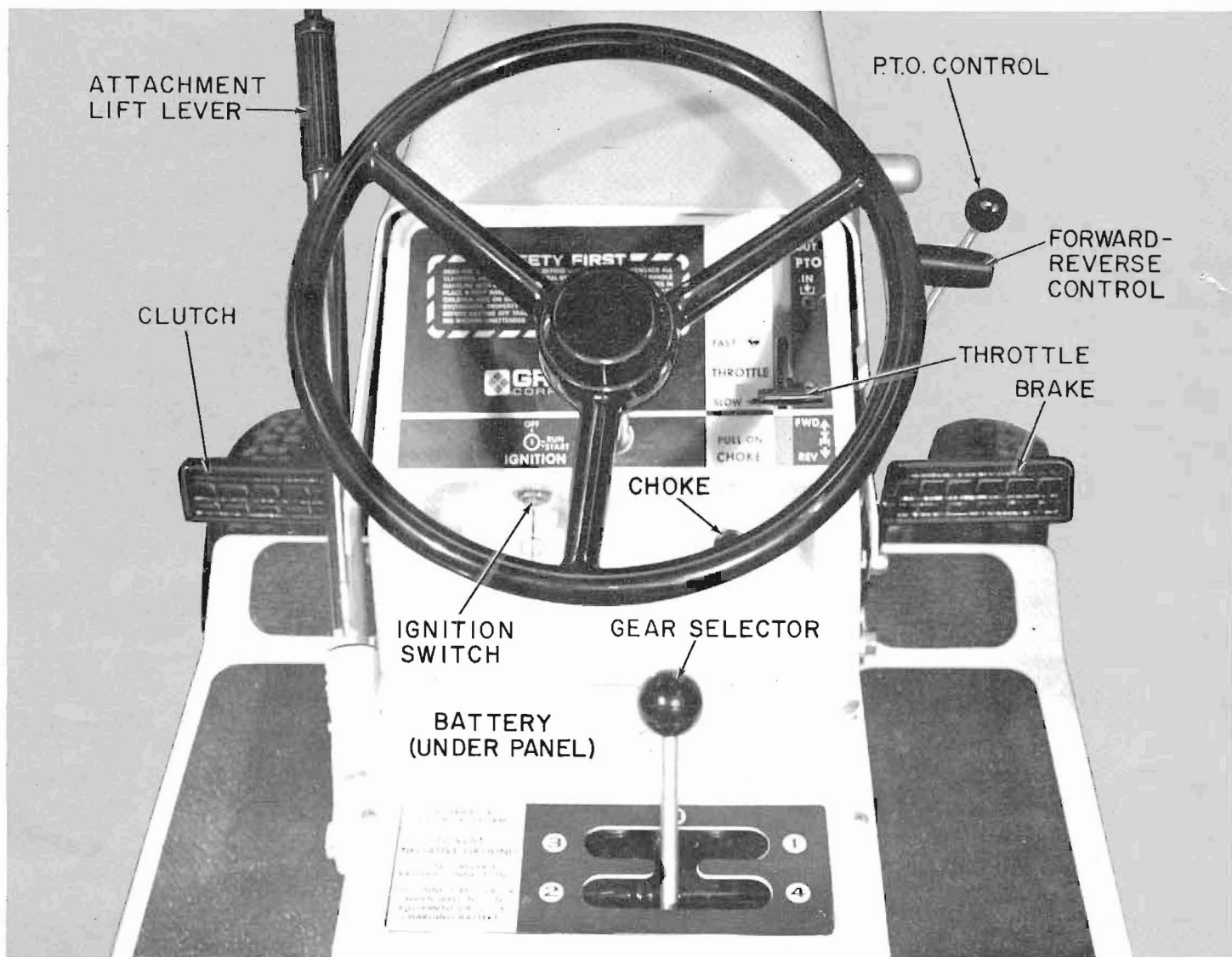


FIGURE 4

OPERATION

Before Starting

1. Check fuel level in fuel tank. Capacity is 9 pints. 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 selector 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 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 pedal, and move gear shift to desired gear, and while holding clutch pedal, fully depressed, move forward-reverse control for desired direction. **NOTE:** Be sure to fully depress clutch pedal to engage belt brake to stop belt movement.

2. Slowly release clutch pedal.

Stopping

1. Depress clutch pedal.
2. Depress brake pedal.
3. 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

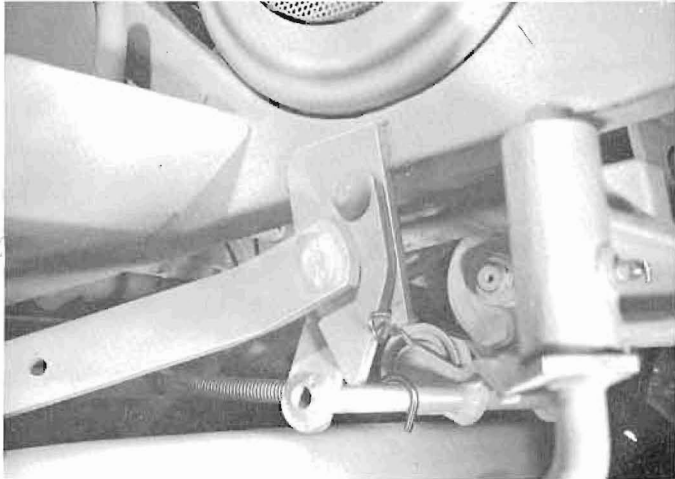


FIGURE 5

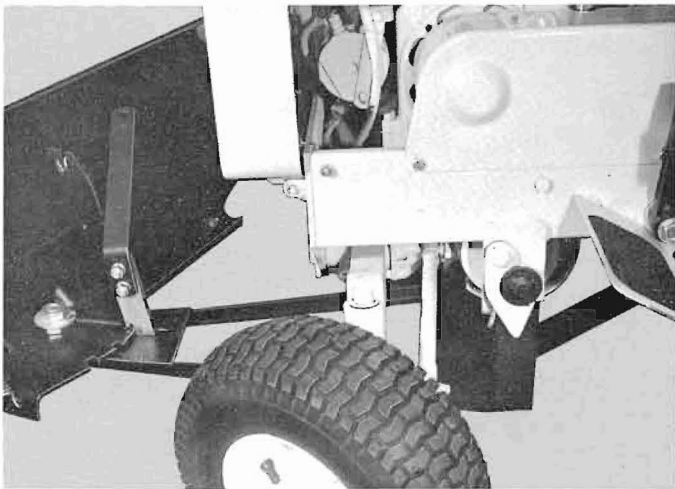


FIGURE 6



FIGURE 7

36" SNOWTHROWER

The SnowThrower mounts on the tractor similar to the 34" Rotary Mower. Place the drive belt on the PTO pulley of the tractor. Attach the mounting bracket of the Snow-Thrower in the Attachment latches. Install the Lift Push Arm in the last hole of the Lift Lever Weldment (hole closest the cross shaft).

Install the spring anchor bracket on the hook anchor rod and attach lift assist springs.

34" ROTARY MOWER

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 hairpin cotters.

Attach the spring and anchors from the cross shaft of the mower hanger assembly to the idler weldment.

The mower cutting height is adjusted by the lever on the quadrant at the right side of the mower.

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

42" SNOWDOZER

The SnowDozer mounts in the attachment latches similar to the 34" Rotary Mower. Attach the Lift Arm to the last hole of the Lift Lever Weldment (hole closest cross shaft).

The angle of the blade is by the lever on the quadrant. Raise the blade to pull back on the lever and swing blade to the desired position.



FIGURE 8

CART

The cart attaches to the rear hitch of the tractor with a pin.

Warranty

Products manufactured by Gravely are warranted to be free from defective material and workmanship for a period of one year from date of purchase, under normal use by a homeowner, and for a period of ninety (90) days from date of purchase, when used for commercial purposes.

Any defective part manufactured by Gravely will be replaced without charge provided such part is certified as defective by the manufacturer or by the manufacturer's expressly authorized representative.

IMPORTANT PROVISIONS

This warranty is not subject to change or modification by field representatives or Gravely dealers. Any warranty other than the warranty expressly stated above will not be binding upon the manufacturer.

Certain components carry separate warranties by the manufacturer of such components. Defective components are subject to their manufacturer's warranties, and any claims, work, or return of parts must be through an authorized Gravely dealer. Service costs for the transporting of a unit to and from the dealer are the responsibilities of the customer, and when such service is performed by the dealer, the dealer will charge the customer the usual rate for such service.

It is the customer's responsibility to mail the "Warranty Card" to the manufacturer within fourteen (14) days after date of purchase to ensure prompt handling of any warranty claim by the dealer or the manufacturer.



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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.

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