

GRAVELY 408 LAWN TRACTOR OWNERS MANUAL



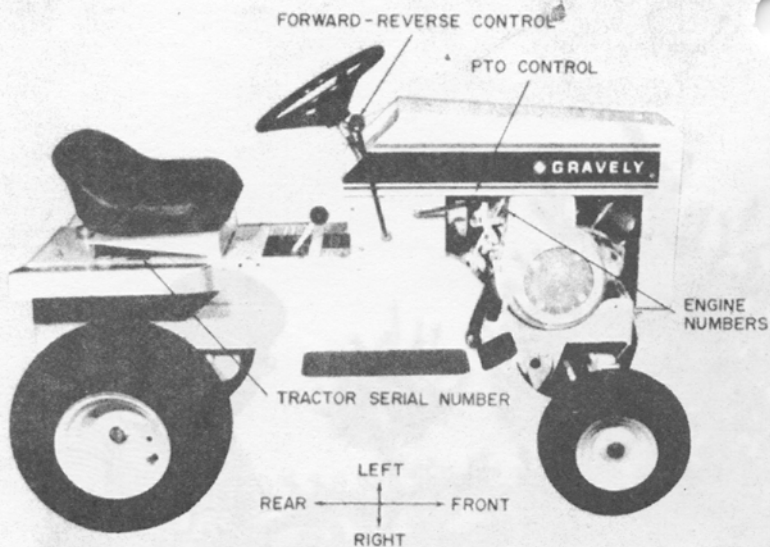


Figure 1

INTRODUCTION

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.

Model Number _____

Specification Number _____

Serial Number _____

Please refer to these numbers in any correspondence with the factory or dealer regarding your 408.

 **GRAVELLY.**

One Gravely Lane
Clemmons, N. C. 27012

SAFETY PRECAUTIONS

1. Know the controls and how to stop quickly — READ THE OWNER'S MANUAL.
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instructions.
3. Do not carry passengers. Keep children and pets a safe distance away.
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine.
6. Disengage power to attachments and stop engine before leaving operator position.
7. Disengage power to attachments and stop engine before making any repairs or adjustments.
8. Disengage power to attachments when transporting or not in use.
9. Take all possible precautions when leaving vehicle unattended, such as disengaging power take-off, lowering attachments, shifting into gear setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
 - D. Use Wheel weights or Weight box when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward by-standers nor allow anyone near vehicle while in operation.
16. Handle gasoline with care — it is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage — exhaust fumes are dangerous. Do not run engine indoors.
17. Keep vehicle and attachments in good operating condition and keep safety devices in place.
18. Keep all nuts, bolts and screws tight to be sure equipment is in safe working condition.
19. Never store equipment with gasoline in the tank inside of building where fumes may reach an open flame or spark.
20. Allow engine to cool before storing in any enclosure.
21. To reduce fire hazard keep engine free of grass, leaves or grease.
22. Vehicle and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.
23. Do not change engine governor settings or overspeed engine.
24. When using vehicle with mower:
 - A. Mow only in daylight or in good artificial light.
 - B. Never make a cutting height adjustment while engine is running if operator dismounts to do so.
 - C. Shut engine off when unclogging chute.
 - D. Check blade bolts for proper tightness at frequent intervals.

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.

ROUTINE MAINTENANCE

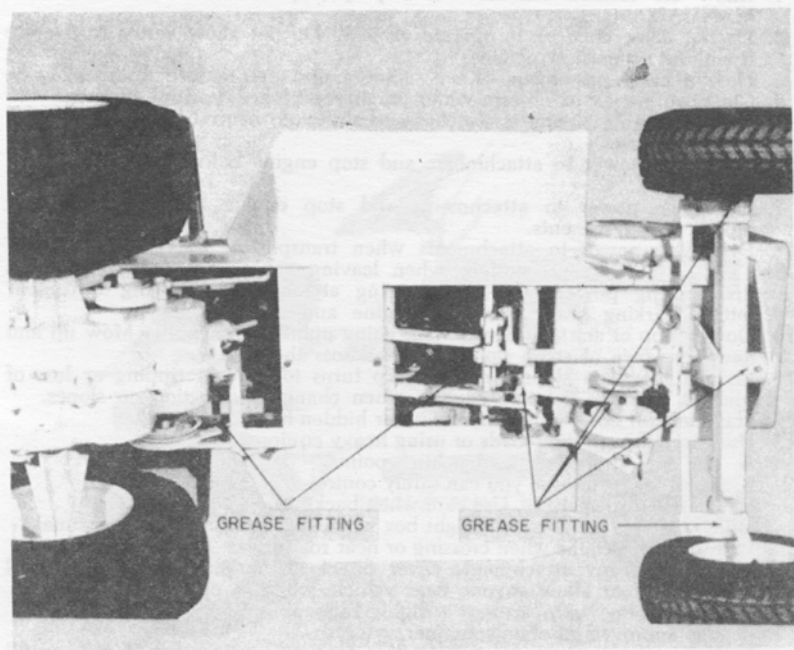


Figure 2

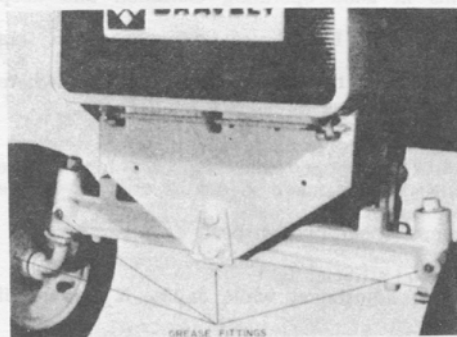


Figure 3

Greasing

There are 9 grease fittings on the 408. Grease each fitting liberally with general purpose grease every 8 hours of operation.

- A. Steering gear support - 1
- B. PTO 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.

Any time 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.

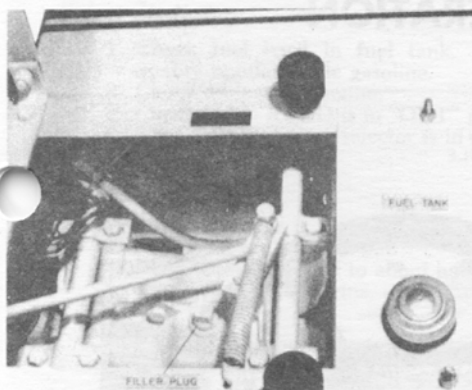


Figure 4

Transmission

Capacity — 3 U.S. Quarts
 API Service Class — SE
 SAE Viscosity — 20W40 all seasons
 Check level every 40 hours of operation. Change first 40 hours of operation. Level and drain plugs are on right side of housing.

Engine

Capacity — 2½ U.S. Pints
 API Service Class — SE
 SAE Viscosity — 5W 20W below 0° (F)
 5W 30W
 10W 30
 10W 40
 20W 40 above 85° (F)

Check oil level before each use. Maintain at full level. Do not overfill. Change oil after initial 5 hours of use then every 25 hours of use or 3 months which ever occurs first. Drain plug is on bottom, underside of engine.

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.

Battery

Regularly check fluid level. Maintain at proper level.

Tires

Front tires — Maintain pressure at 12 psi.

Rear tires — Maintain pressure at 6 psi.

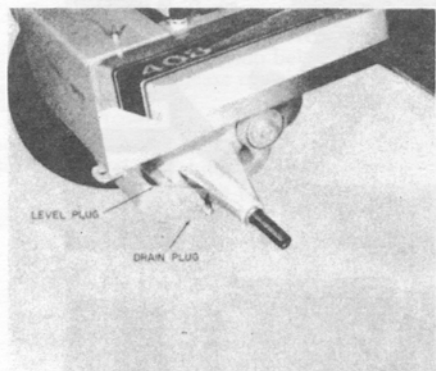


Figure 5

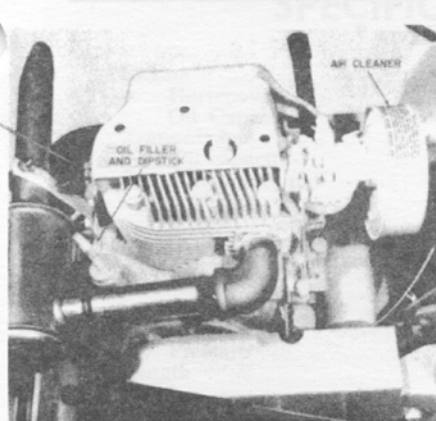


Figure 6

OPERATION

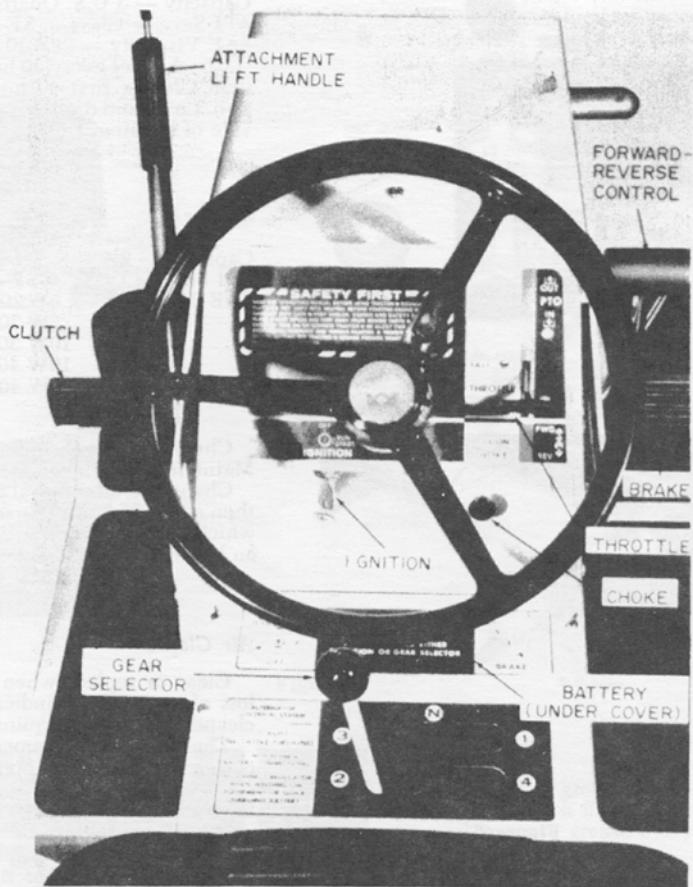


Figure 7

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 and 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.

SPECIFICATIONS

Engine	Kohler K181	
Horsepower	8 @ 3600 rpm	
Oil Capacity	2½ pints	
Transmission	4 forward 4 reverse	
Oil capacity	3 qts.	
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.	

42" SnowDozer

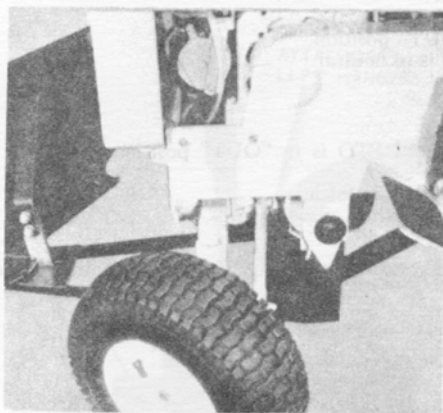


Figure 9

Mounting on Tractor:

Slide frame under front axle of tractor. Open latches, raise frame and secure in latches. Secure latch with hair pin cotters.

Attach the lift arm in the last hole of the lift lever weldment (hole closest the cross shaft).

Operation:

The angle of the blade is controlled by the lever on the quadrant.

To change angles, raise the blade. Pull back on the lever and swing blade to the desired position. Release lever.

Wheel weights, tire chains, and/or a weight box can be added to the tractor to increase traction.

WHEEL COVERS

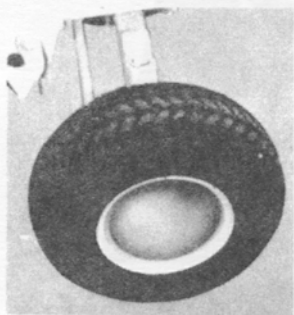


Figure 10

Wheel covers to enhance the appearance of your 408 are available.

TIRE CHAINS

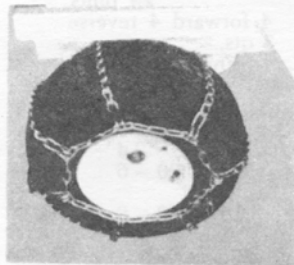


Figure 11

Chains for the rear wheels are available to increase traction.

CART

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

When loading the cart, concentrate the weight ahead of the cart axle.

WEIGHT BOX

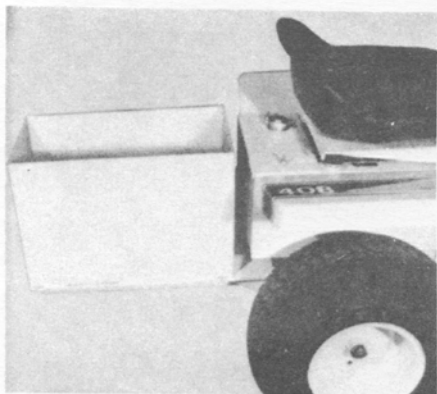


Figure 13

The weight box mounts on the rear hitch of the tractor. Secure in place with the clevis pin and hair pin cotter. Tighten adjusting handles against the rear hitch until the weight box is rigid.

For increased traction the weight box can be filled with any suitable material such as sand.

During the mowing season, the empty weight box makes a handy container for debris picked up while mowing.

WHEEL WEIGHTS

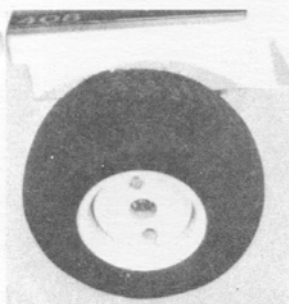


Figure 14

The 11924E1 Wheel Weights fit the rear wheels of the 408. To mount the weights, the wheels may have to be turned so the valve stems are on the inside.