

## Allis Chalmers 710, 712S, 712H, 716H

# Allis Chalmers 710, 712S, 712H, 716H Lawn Garden Tractor Operator's Manual

*This manual provides essential instructions for the safe and efficient operation and maintenance of your Allis Chalmers Lawn Garden Tractor.*

## 1. INTRODUCTION

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This operator's manual is designed to provide owners and operators with detailed information regarding the safe operation, routine maintenance, and general care of Allis Chalmers 710, 712S, 712H, and 716H Lawn Garden Tractors. Familiarize yourself with all sections of this manual before operating the equipment to ensure safety and prolong the life of your tractor.

## 2. SAFETY INFORMATION

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Your safety and the safety of others are paramount. Always observe the following safety precautions:

- Read and understand all instructions in this manual before operating the tractor.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and sturdy footwear.
- Never allow children or untrained individuals to operate the tractor.
- Operate the tractor only in well-lit areas and maintain a clear view of your surroundings.
- Before performing any maintenance or adjustments, ensure the engine is off, the parking brake is engaged, and the key is removed.
- Keep all guards and safety devices in place and in good working order.
- Avoid operating on steep slopes or uneven terrain where stability may be compromised.
- Do not carry passengers on the tractor.

## 3. SETUP AND PRE-OPERATION CHECKS

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Before each use, perform the following checks to ensure your tractor is ready for operation:

- **Fuel Level:** Check the fuel tank and refill with the recommended fuel type if necessary.

- **Engine Oil Level:** Verify the engine oil level using the dipstick. Add oil if it is below the recommended mark.
- **Tire Pressure:** Inspect all tires for proper inflation and condition.
- **Battery:** Ensure battery terminals are clean and connections are secure.
- **Controls:** Test all operating controls (brakes, clutch, throttle, steering) for proper function.
- **Attachments:** If using attachments, ensure they are securely mounted and functioning correctly.

## 4. OPERATING CONTROLS

Familiarize yourself with the location and function of all operating controls before starting the engine.



**Figure 1:** Overview of the tractor's operating controls. This diagram illustrates the layout of the steering wheel, gear shift lever, throttle control, ignition switch, and foot pedals for clutch and brake, providing a visual guide for operators.



**Figure 2:** Detailed view of the dashboard controls, including the gear shift lever, ignition switch with key, fuel gauge, and light switch. This image helps identify specific controls for starting and operating the tractor's various functions.

#### 4.1. Steering Wheel

The steering wheel controls the direction of the front wheels. Turn clockwise to steer right, counter-clockwise to steer left.

#### 4.2. Throttle Control Lever

Located on the dashboard, this lever controls the engine speed. Move the lever forward to increase engine RPM and backward to decrease it.

#### 4.3. Ignition Switch and Key

Insert the key into the ignition switch to start or stop the engine. Turn to the "START" position to engage the starter, and release to the "ON" position once the engine starts. Turn to "OFF" to shut down the engine.

#### 4.4. Fuel Gauge and Filler Cap

The fuel gauge indicates the current fuel level. The filler cap provides access to the fuel tank for refueling.

#### 4.5. Light Switch

Activates the tractor's headlights for operation in low-light conditions.

#### 4.6. Clutch and Brake Pedals

The left pedal operates the clutch (if applicable to your model) and the brake. Depress fully to disengage the clutch and apply the brake. The right pedal is typically for the brake only.

#### 4.7. Gear Shift Lever

Used to select the desired forward or reverse gear. Ensure the tractor is stationary and the clutch is fully depressed before shifting gears.

#### 4.8. Hand Lift Lever

This lever is used to raise and lower attachments, such as mower decks or snow blowers.

## 5. OPERATION

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### 5.1. Starting the Engine

1. Ensure the transmission is in neutral and the parking brake is engaged.
2. Depress the clutch/brake pedal fully.
3. Insert the key into the ignition switch and turn it to the "START" position.
4. Once the engine starts, release the key to the "ON" position.
5. Allow the engine to warm up for a few minutes before engaging any attachments or driving.

### 5.2. Driving the Tractor

1. With the engine running and warmed up, select the desired gear using the gear shift lever.
2. Slowly release the clutch/brake pedal while gradually increasing the throttle to move forward or backward.
3. Use the steering wheel to guide the tractor.
4. To stop, reduce throttle, depress the clutch/brake pedal, and apply the brake.

### 5.3. Engaging Attachments

Refer to the specific attachment's manual for detailed engagement procedures. Generally, ensure the tractor is stationary and the engine is at a low idle before engaging the Power Take-Off (PTO) or hydraulic systems for attachments.

## 6. MAINTENANCE

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Regular maintenance is crucial for the longevity and optimal performance of your Allis Chalmers tractor. Refer to the maintenance schedule for recommended service intervals.

### 6.1. Engine Maintenance

- **Oil Change:** Change engine oil and filter at recommended intervals (e.g., every 50 operating hours or annually).
- **Air Filter:** Inspect and clean or replace the air filter regularly, especially in dusty conditions.
- **Spark Plugs:** Inspect and replace spark plugs as needed to ensure efficient ignition.

### 6.2. Lubrication

- Regularly lubricate all grease fittings and moving parts as indicated in the lubrication chart.
- Check and maintain proper fluid levels for transmission and hydraulic systems.

### 6.3. Tire Care

- Maintain correct tire pressure for optimal traction and stability.
- Inspect tires for wear, damage, or punctures.

### 6.4. Cleaning

Keep the tractor clean, especially the engine cooling fins and air intake areas, to prevent overheating.

## 7. TROUBLESHOOTING

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This section provides solutions to common operational issues. For problems not listed here, consult a qualified service technician.

### 7.1. Engine Will Not Start

- Check fuel level.
- Ensure the ignition key is fully inserted and turned to "ON" or "START".
- Verify the battery is charged and terminals are clean.
- Check spark plugs for fouling or damage.
- Ensure safety interlocks (e.g., neutral safety switch, PTO disengaged) are activated.

### 7.2. Loss of Power

- Check air filter for clogging.
- Inspect fuel filter for blockage.
- Ensure spark plugs are clean and properly gapped.

### 7.3. Unusual Noises or Vibrations

- Immediately shut down the tractor.
- Inspect for loose or damaged components.
- Check for foreign objects caught in moving parts.

## 8. SPECIFICATIONS

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Key specifications for Allis Chalmers 710, 712S, 712H, and 716H Lawn Garden Tractors:

- **Brand:** Allis Chalmers
- **Model Numbers:** 710, 712S, 712H, 716H
- **Manufacturer:** Allis Chalmers
- **Item Weight:** 0.01 Ounces (referring to the manual itself, not the tractor)
- **UPC/GTIN:** 752589912907

*Note: Specific engine, transmission, and other detailed specifications may vary by exact model and year. Refer to the original manual for precise details pertaining to your specific tractor.*

## 9. WARRANTY AND SUPPORT

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This manual is a reproduction of the original equipment manufacturer's manual. For specific warranty information regarding your Allis Chalmers tractor, please refer to the documentation provided at the time of purchase or contact an authorized Allis Chalmers dealer.

For technical support or service inquiries, please contact your local authorized Allis Chalmers service center.