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## W240 Weed Wiper



## Original Instructions

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THIS MANUAL MUST BE HANDED TO THE OPERATOR BEFORE USE. THE OPERATOR MUST UNDERSTAND FULLY THE CONTENT OF THIS HANDBOOK BEFORE USING THE MACHINE FOR THE FIRST TIME. OF THE IMPLEMENT IS RESOLD, THIS MANUAL MUST ACCOMPANY THE MACHINE.

## NOTE:

The information contained in this manual is correct at the time of going to press. However, in the course of development, changes in specification are inevitable. Should you find the information given differs from your machine, please contact Chapman Machinery Ltd direct for advice. **Use only Chapman Genuine Service Parts on Chapman Machinery and Machines.**

# HSE Information

## *Safe use of all-terrain vehicles (ATVs) in agriculture and forestry – AIS Sheet 33*

### Introduction

This information sheet gives advice on the safe use of ATVs. It covers the two main types used in off-road working in agriculture and forestry, which are:

- sit-astride ATV / sit-in machines
- side-by-side mini-utility vehicles,

The Full HSE information sheet can be found here or using the QR Code at the bottom of the article:  
<https://www.hse.gov.uk/pubns/ais33.pdf> and must be read prior to any ATV/UTV use. Below are related extracts to trailed machinery.

### REMEMBER - GET PROPERLY TRAINED AND ALWAYS WEAR HEAD PROTECTION

#### Training

Under the Provision and Use of Work Equipment Regulations 1998 (PUWER), there is a legal requirement for employers to provide adequate training, and to ensure that only employees who have received appropriate training in their safe use, including the use of any towed equipment or attachments, are permitted to ride ATVs. The same requirements apply to the self-employed. HSE regards training provided by recognised training providers as being adequate for the purposes of PUWER.

#### Protective clothing

More than half of all ATV riders have been thrown off at some time. As these machines are not fitted with either a cab or roll bar, your only protection is what you wear.

- **Head protection is vital.** The majority of ATV fatalities in the UK in the last ten years have been caused by head injuries. Nobody who died from head injuries was wearing a helmet. Helmets would certainly have prevented most, if not all, the deaths. **You should always wear a helmet when riding an ATV.** All helmets should have a chinstrap and be capable of being used with suitable eye protection. The type of helmet chosen should be based on an assessment of the circumstances in which the ATV will be used, eg the types of surface travelled over and anticipated speeds. The harder the surface and higher the speed the greater the degree of protection needed. **NB: Forestry helmets and industrial hard hats are not acceptable for any ATV operations.**
- Wear clothing that is strong and covers your arms and legs. Gloves are useful for protection and to keep hands warm in cold weather for good control of the ATV. Wear sturdy, ankle-covering footwear, eg boots or wellingtons that are strong, supportive and have good wet grip.
- Protect your eyes from insects and branches with either a visor or goggles.

#### Trailed equipment and loads

Ensure all riders know the manufacturers recommended towing capacity and drawbar loading limit. Always operate within these requirements.

Remember that your ability to control the ATV by your body movements will be considerably reduced when carrying a load or towing a trailer.

- When selecting trailed equipment look for:
  - over-run brakes;
  - a swivel hitch drawbar;
  - bead lock rims on wheels;
  - a low centre of gravity and a wide wheel track;
  - a long drawbar; and
  - attachment points for securing a load.
- Check the weight ratio between your ATV and its trailed load. This needs to be assessed for each operation. As a general guide, on level ground, braked trailed equipment can be a maximum of four times the unladen weight of the ATV. For unbraked trailed equipment the maximum should be twice the unladen weight. These loads should be reduced when working on slopes, uneven ground or poor surface conditions. Follow the manufacturers advice for your particular machine.
- Weight transfer is also important. Stability and resistance to jack-knifing is improved if some load is transferred onto the ATV's drawbar. Approximately 10% of the gross weight of the loaded trailer is recommended, but this should not exceed the manufacturers drawbar loading limit. Remember that weight transfer can change dramatically when you start going up or down hill.
- When selecting mounted equipment, make sure it is within the manufacturers approved weight limit, with a low centre of gravity, and controls which are easy to operate but do not create a hazard. Where equipment is added to one end of the machine, add ballast at the other end to maintain stability.
- Loads carried on racks must be well secured, e.g. with ratchet straps, and be evenly balanced between the front and rear, except where they are deliberately altered to aid stability when going up or down a slope.
- Only tow a load from the hitch point. Loads towed from other points such as the rear rack have caused sudden rear overturning even on slight slopes or with slight acceleration. Ropes or chains should not be used to drag a load where they can become caught on a wheel. This may lead to entanglement with the brake cable, causing unexpected braking.

#### Further information

For information about health and safety go to  
<https://www.hse.gov.uk/>

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# Important Safety Information

Always read this manual before fitting or operating the machine – whenever any doubt exists contact your dealer or the Chapman Machinery Service Department for advice and assistance.

## DEFINITIONS

The following definitions apply throughout this manual:

**WARNING** - An operating procedure, technique etc., which can result in personal injury or loss of life if not observed carefully.

**CAUTION** - An operating procedure, technique etc., which can result in damage to either machine or equipment if not observed carefully.

**NOTE** - An operating procedure, technique etc, which is considered essential to emphasis.

**LEFT & RIGHT HAND** - This term is applicable to the machine when attached to the towing vehicle and is viewed from the rear – this also applies to tractor references.

## Safety Information

- Do not operate this equipment unless you have studied this manual in full
- Only use this machine for its designated task - improper use is both highly dangerous and damaging to machine components
- Both operators & maintenance fitters should be familiar with the machine and fully aware of dangers surrounding improper use or incorrect repairs
- Before starting, carry out a visual check on both machine & towing vehicle as regards functionality, road safety & accident prevention rules
- Even when using the machine correctly, accidents can occur. It is imperative that nobody stand within the danger area. If working near roads, buildings or animals, special attention must be taken to ensure safety.
- Never wear loose clothing which could get caught in rotating equipment
- Never carry passengers on the towing vehicle
- Do not stand near the machine when operating
- Damaged or missing safety decals must be replaced immediately

## Transportation Safety

- When transporting, especially over rough ground, reduce speed to prevent damage to machine.
- This machine is not road legal in its standard form. DO NOT tow on public highways unless you have specified the road-legal model, and checked that this and the towing vehicle comply with local highway regulations in place.

## Operating Safety

- Pay special attention when working not to harm livestock if crowding around the machine occurs.
- If anything should become entangled in the mechanism, or blocked in the chute, stop the machine and disconnect the power before attempting to clear the blockage.

# Description

The W240 Weed Wiper is designed for the selective application of herbicide to weeds / vegetation on pasture.

The W240 Weed Wiper is a trailed attachment, with applicator roller rotated around a horizontal plane in direction counter to the direction of motion. This ensures even coverage of the waterborne herbicide to the underside of the weeds. The herbicide itself is applied to the applicator roller via sprayer nozzles located above, fed from a tank and pump fitted to the top of the machine.

These machines should however only be used to perform tasks for which they were designed - use of the machine for any other function may be both dangerous to persons, and potentially damaging to components. Use of the machine beyond the stated usage may invalidate any applicable warranty, as well as being potential in breach of applicable safety regulations.

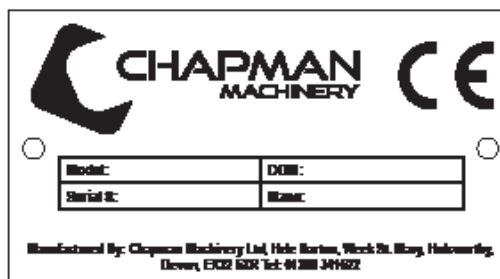
**Weed wiping using herbicide is a controlled practice, and as such should only be undertaken by operators with the correct licences / tickets for the territory the machine is being used in!**

## Identification

Each machine is fitted with a serial plate (shown below) which details the following:

1. Model
2. Date of Manufacture (DOM)
3. Serial Number
4. Mass

When enquiring regarding spares or additional equipment, ensure you have this information to hand.



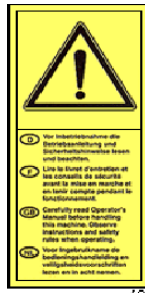
## Implement Decals

If your implement does not contain all of the decals shown below, please contact Chapman Machinery for replacement decals before use. **Note:** All decals must be present and visible. It is imperative that these are replaced if damaged to prevent potential harm to users.





\* Carefully read operators manual before handling this machine. Observe instructions and safety rules when operating.



\*Caution - Entanglement Hazard. Keep hands away from moving parts



## Component Identification



# Attachment

## Before Attaching the Machine

*Before attachment, ALWAYS ensure the following:*

- All safety guards & decals are in good working order and correctly fitted
- Lubrication points have been lubricated as per scheduled maintenance period
- The tyres are free of damage and inflated to the correct pressure
- Electrical connections are free of dirt and moisture

## Attaching the Machine

NOTE: This machine is designed to attach to the towing vehicle through a 50mm diameter ball hitch.

1. Reverse the towing vehicle up to the machine.
2. Attach the machine onto the towing vehicle's coupling.
3. Attach the control cable to the control socket fitted on the towing machine, ensuring a secure connection.
4. If required, adjust application rate on controller. Wiper controller should remember the previous setting used, unless it has been stored for extended periods without power.

**WARNING: ENSURE CONTROL EQUIPMENT IS SECURELY ATTACHED TO THE TOWING VEHICLE BEFORE USE!**

# Initial Set-up

## Sprayer Pressure

The Weed Wiper has been factory pre-set with clean water to operate at the correct pressure for nozzle atomisation - different herbicides or wetting agents may affect the viscosity, and as such the pressure may need to be adjusted. The pressure regulator and gauge are located on top of the sprayer tank - with the rear guard removed, adjust the pressure such that the nozzles are atomising the spray - this will normally be around 2.75-3.5 Bar (40-50 psi) on the gauge.

## Height

Hitch the weed wiper up to the towing vehicle, adjust the height of the roller to the desired level by rotating the height adjustment jack to raise or lower as required. The height should be set so that the roller contacts as much of the weed as possible without contacting the underlying grass sward. The more contact that can be made with the weeds, the greater the chemical take-up and the better the wiping result!

## Initial Test Operation

In order to familiarise the operator(s) with the machine, first fill the spray tank with clean water, and test operation using water only. The objective is to apply enough liquid to fully wet the applicator whilst moving through the weeds, without overloading to such a point as the applicator drips onto the sward below.

Once the operator(s) are familiar with the machine and operation, the tank can be drained and refilled with water / herbicide as per the herbicide manufacturers recommendations.

# Operation

Ensure that the operator is suitably qualified to use a machine of this nature and that they have fully read and understood this manual - they should be aware of all safety aspects relating to the safe use of the machine.

It is advisable that all 'first time' operators practice using the machine in a clear safe area, with clean water only prior to work in order to familiarise themselves with its operation.

**AFTER APPROXIMATELY ONE HOUR OF WORK WITH A NEW MACHINE, ALL NUTS, BOLTS AND DRIVE BELTS SHOULD BE CHECKED FOR TIGHTNESS AND ADJUSTED AS NECESSARY!**

## Control Module



**ON/OFF:** Switches the control box on or off. When switched on, the applicator roller will run continuously.

**APPLICATION RATE:** The desired spray rate is set using the up/down arrows, with the current output value (between 0 & 100) displayed on the 3-digit display. For example, the machine will run for 50% of the time when set to 50 on the control box. **RECOMMENDED START VALUE = 20%**

**PUMP RUN:** Switches the sequenced pump on or off so that chemical is applied to the applicator at the application rate set.

**PURGE:** This runs the pump continuously when pressed, ideal for clearing blockages, purging the system of air or when flushing through with water after use.



## Operation

1. Switch the unit on by pressing ON/OFF. The display will light-up and the roller will rotate.
2. After approx. 3 seconds the display will show the previous application rate last used between 0-100. Use the UP / DOWN arrows to adjust if required.
3. Press the PUMP RUN button to commence the application of herbicide.
4. The machine will continue to run at this rate until the control is turned off or the amount is altered.
5. When finished, switch off by pressing ON/OFF. The unit should always be cleaned with fresh water and the tank purged when application is finished, to prevent crystallisation of the chemical in pipework and nozzles.

## Forward Speed

The forward speed used should be proportional to the amount of weeds being encountered. In areas of thin weed growth, a faster speed (for example 5mph) will result in an effective kill and improved workrate. Conversely, in areas of thick weed growth, forward speed will need to be reduced to a slow walking pace (around 2mph) in order to effectively wipe all the weeds.

The operator must use their own discretion in this regard due to the many variables of chemical used, level of weed infestation, height of grass sward, temperature and humidity when applying, in order to ensure the applicator roller is kept moist and the weeds are having enough chemical applied.

## Operating Limits

**WARNING: DO NOT OPERATE BEYOND OPERATING LIMITS, DAMAGE TO MACHINERY OR INJURY TO OPERATOR MAY OCCUR.**

Minimum / Maximum Temperature: **5°C / +40°C**

## Storage

For extended periods of storage, it is advisable that the machine be kept in a clean dry environment protected from the elements to avoid risk of corrosion.

The machine should be thoroughly hosed down with clean, low pressure water and lubricated after use to prevent corrosion due to herbicide residue left on the machine.

# Troubleshooting

| Problem                                                                                       | Possible Causes                                                                                           | Remedies                                                                |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Applicator motor does not operate                                                             | Poor connection                                                                                           | Check plug is clean and moisture free                                   |
|                                                                                               | Shortage in wiring (may be indicated by unit losing power when run button pressed)                        | Check wiring for damage                                                 |
|                                                                                               | Motor Fault                                                                                               | Replace motor, contact distributor                                      |
| Pump does not operate                                                                         | Poor connection                                                                                           | Check plug is clean and moisture free                                   |
|                                                                                               | Pump overheated                                                                                           | Check for blockage or air-lock                                          |
|                                                                                               | Pressure regulator incorrectly set                                                                        | Adjust regulator on pump so that pump does not shut off prematurely     |
|                                                                                               | Faulty Pump                                                                                               | Replace, Contact distributor                                            |
| Applicator Roller Dripping                                                                    | Application rate too high for level of weeds being encountered                                            | Reduce application rate on control box. Recommended start setting = 20% |
| Applicator Roller not rotating (or rotating backwards) when thick weeds or rushes encountered | Height too low                                                                                            | Raise working height                                                    |
|                                                                                               | Drive belt too loose                                                                                      | Tighten drive belt to prevent slipping                                  |
| Uneven spray pattern or dry area on applicator roller                                         | Blocked nozzle                                                                                            | Check nozzles for blockages, clean with fresh water, replace if damaged |
|                                                                                               | Pump pressure too low (nozzles will not atomise spray correctly, especially notable on outermost nozzles) | Increase pump pressure to ensure even spray pattern across all nozzles  |

# Warranty

## The Chapman Warranty

Chapman Machinery Ltd (herein 'Chapman' or 'Chapman Machinery') warrants that the machine referred to in the Warranty Registration Form will be free from manufacturing defects for a period of 24 months from the date of sale. This warranty does not affect your statutory rights, but merely adds to them. Should you have a problem within 24 months from the date of sale please contact your original dealer, or Chapman Machinery's Service Department.

Any part found to be defective during this period will be replaced or repaired, at our discretion, by the dealer or a authorised Service Engineer.

## Warranty Conditions

1. The Warranty Registration Form must be completed and returned to Chapman Machinery Ltd within 30 days of the date of sale
2. This warranty does not cover defects arising from fair wear and tear, wilful damage, negligence, misuse, abnormal working conditions, use in competition, failure to follow Chapman Machinery's instructions (oral or written, including all instructions and recommendation made in the Operator's Manual) or alteration or repair of the machinery without prior approval.
3. The machinery must have been serviced in accordance with the Operator's Manual and the Service Log must have been kept up to date and made available to the dealer should service, repair or warranty work be undertaken.
4. This warranty does not cover claims in respect of wearing parts such as blades, flails, paintwork, tyres, belts, hydraulic hoses, bearings, bushes, linkage pins, top links, ball ends unless there is a manufacturing or material defect or the cost of normal servicing items such as oils and lubricants.
5. This warranty does not cover any expenses or losses incurred whilst the machinery is out of use for warranty repairs or parts replacement.
6. This warranty does not extend to parts, materials or equipment not manufactured by Chapman Machinery, for which the Buyer shall only be entitled to the benefit of any such warranty or guarantee given by the manufacturer to Chapman Machinery. Only genuine replacement parts will be allowable for warranty claims.
7. All parts replaced by Chapman Machinery under warranty become the property of Chapman Machinery and must be returned to Chapman Machinery if so requested. Such parts may only be disposed of after a warranty claim has been accepted and processed by Chapman Machinery.
8. Chapman Machinery is not liable under this warranty for any repairs carried out without Chapman Machinery's written consent or without Chapman Machinery being afforded a reasonable opportunity to inspect the machinery the subject of the warranty claim. Chapman Machinery's written consent must, therefore, be obtained before any repairs are carried out or parts replaced. Use of non- Chapman Machinery parts automatically invalidates the Chapman Warranty. Failed components must not be dismantled except as specifically authorised by Chapman Machinery and dismantling of any components without authorisation from Chapman Machinery will invalidate this warranty.
9. All warranty claims must be submitted to Chapman Machinery on Chapman Machinery Warranty Claim Forms within 30 days of completion of warranty work.  
Using the machine implies the knowledge and acceptance of these instructions and the limitations contained in this Manual.

## Transfer of Warranty

The Chapman warranty be transferred to a subsequent owner of the machinery (for use within the UK only) for the balance of the warranty period subject to all of the stated warranty conditions and provided that the Change of Owner form is completed and sent to Chapman Machinery within 14 days of change of owner- ship.

**Chapman Machinery Ltd retain the right to refuse transfer of warranty.**

**Chapman Machinery reserves the right to make alterations and improvements to any machinery without notification and without obligation to do so.**



EC DECLARATION OF CONFORMITY  
Machinery Directive 2006/42/EC

Chapman Machinery Ltd

Hele Barton  
Week St. Mary  
Holsworthy  
Devon  
EX22 6XR

The Products Covered by this Declaration

Product: W240 Weed Wiper (Off-Highway)

Standards and Regulations used: Machinery Directive 2006/42/EC

Place of Issue: United Kingdom

Name of Representative: James Chapman

Position of representative: Director

The Basis on which Conformity is being Declared

I declare that as the authorised representative, the above information in relation to the supply / manufacture of this product, is in conformity with the stated standards and other related documents following the provisions of Machinery Directive 2006/42/EC directives

The products described above comply with the essential requirements of the directives specified.

Signed:

Date: .....15/05/2015.....