



OWNER'S MANUAL  
FOR THE



**GROUND DRIVEN SPREADER  
CDIT400SC**

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# **SAFETY PRECAUTIONS**

## **CDIT400SC**

### **AN IMPORTANT MESSAGE FOR OWNERS & OPERATORS OF C-Dax ATTACHMENTS/ACCESSORIES**

Be warned of the dangers of loading your ATV or other vehicle in excess of its carrying capacity. It is important to understand that any loads or attachments whether fastened to or placed on a vehicle or ATV will alter the stability or handling characteristics of that vehicle or ATV.

Spray tanks or other equipment must be filled only to a level where the gross weight is within the load limit of the ATV or other vehicle.

Safety is a primary concern in the design, manufacture, sale, and use of spray tanks and other equipment.

As manufacturers of spray tanks and other equipment we want to confirm to you, our customers, our concern for safety. We take this opportunity to remind you about the simple, basic and common sense rules of safety when using spray tanks and other equipment. Failure to follow these rules can result in severe injury or death to operators and bystanders.

It is essential that everyone involved in the assembly, operation, transport, maintenance and storage of this equipment be aware, concerned, prudent and properly trained in safety.

This also applies to equipment that is loaned or rented to someone who has not read the owner's manual and is not familiar with the operation of application equipment.

- NEVER EXCEED THE LOAD LIMIT CAPACITY OF THE ATV OR OTHER VEHICLE.
- ALL ATV AND TRAILED EQUIPMENT TYRES SHOULD BE INFLATED TO MANUFACTURERS RECOMMENDED OPERATING PRESSURES.
- PLEASE NOTE THAT FILLING THE SPRAY TANK OR OTHER EQUIPMENT COMPLETELY AND OR THE ATTACHMENT OF ADDITIONAL EQUIPMENT TO THE ATV MAY EXCEED THE ATV'S MAXIMUM LOAD CAPACITY AND IT IS NOT RECOMMENDED TO EXCEED MANUFACTURERS GUIDELINES
- CARGO SHOULD BE PROPERLY DISTRIBUTED AND SECURELY ATTACHED.
- REDUCE SPEED WHEN CARRYING CARGO OR PULLING A TRAILER OR TRAILED APPLICATION EQUIPMENT AND ALLOW GREATER DISTANCE FOR BRAKING.
- NEVER ALLOW ANYONE TO RIDE ON YOUR SPRAYER OR OTHER EQUIPMENT.
- ALWAYS FOLLOW THE INSTRUCTIONS IN THE OWNER'S VEHICLE MANUAL FOR CARRYING CARGO OR PULLING A TRAILER.
- PROPER MAINTENANCE IN LINE WITH MANUFACTURER'S RECOMMENDED MAINTENANCE PROCEDURES IS ESSENTIAL.
- BEFORE APPLYING CHEMICALS, READ THE LABEL OF THE CHEMICAL MANUFACTURER OR SUPPLIER FOR PERSONAL PROTECTIVE EQUIPMENT AND OPERATE AS RECOMMENDED.
- THE SAFETY OF ALL CHEMICALS USED IN AGRICULTURE IS UNDER THE JURISDICTION OF A GOVERNMENT AGENCY, IE N.Z. MINISTRY FOR THE ENVIRONMENT; USA ENVIRONMENTAL PROTECTION AGENCY. FURTHER LOCAL GOVERNMENT OR STATE LAWS MAY APPLY.

## SAFETY PRECAUTIONS

Before attempting to install or operate the equipment, read and understand the manual thoroughly. Failure to comply with this instruction constitutes improper use and will invalidate the warranty.

Throughout this manual there are highlighted text boxes containing warnings, cautions and notes.

**Warnings** are mandatory instructions to prevent serious injury or permanent damage.

**Cautions** are advisory instructions to ensure reliable operation of the equipment.

**Notes** are for convenient operation.

- Do not overload your spreader. The maximum permissible payload is 320 Kg.
- Never use dirty product or product with stones or lumps.
- Ensure that your towing vehicle is adequate for the task. The maximum tare weight is 450 Kg.
- If using the spreader over hilly terrain the payload should be reduced to ensure that the spreader stability is not compromised.
- Never allow anyone to ride on the spreader.
- Keep the spreader in good condition. Cleanliness and maintenance are essential for safe and trouble free operation.
- Never leave product in the hopper or store the spreader without cleaning it.
- After use always clean and service clutch mechanism

# C-Dax CDIT400SC

## OWNER'S MANUAL

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## INTRODUCTION

Congratulations. You have just purchased an advanced spreader from C-Dax Ltd. C-Dax Ltd is committed to providing you, the farmer, with quality applying systems.

## DESCRIPTION

The C-Dax **CDIT400SC** is a ground-driven spreader designed for application of pelleted fertilisers. The uniquely designed 400-litre translucent non-corrosive polyethylene hopper is specially profiled for good product flow and ease of filling. The convenient canvas cover is easy to remove, install and store if not required. A high-quality stainless steel agitator and shutter ensures even flow of product to the spinner. A unique spinner design ensures wide, even spread of products over 180 degrees (Urea). The heavy-duty galvanised frame is fitted with knobbly turf tyres as standard equipment. The drive train uses high quality steel and a double sealed self-aligning bearing and heavy-duty gearbox for maximum durability. The CDIT400SC features Smart Control technology which maintains the determined application rate irrespective of speed. Also standard are mudguards, swivel tow-hitch and a fully shrouded polyethylene front deflector to further protect the operator from product being thrown off the spinner.

### Specifications

(Specifications subject to change without notice)

Dry Weight	120 Kg
Dimensions	W1900mm, H1400mm, L1850mm
Capacity	400 litre (320Kg Urea)
Drive	Ground driven (single wheel)
Wheels	18x950x8 knobbly turf tyres
Tyre pressure	15PSI (100Kpa)
Clutch	Electronic speed controlled mechanical clutch
Agitator	Mechanical arm, stainless steel
Spinner	Galvanised steel with three-position adjustable vanes
Hopper	Non-corrosive polyethylene, ergonomically designed for ease of filling and inspection
Hopper cover	Canvas cover
Frame	Galvanised steel
Gearbox	Heavy duty with double sealed bearings
Gearbox oil	400ml SAE30
Axle Bearings	Sealed ball races
Clutch bearing	Self-lubricating Vesconite bearing
Axle grease	General Purpose
Application Rate	140Kg per hectare @ 10 kph (nominal, Urea)
Spread width	18M (nominal, Urea @ 15 Kph)
Towing speed	15 Kph (Maximum recommended)

NZ , AUST & UK

### Order Information

Standard CDIT400SC

P/N 3004

## WARRANTY

### 1 WARRANTY AND LIABILITY

#### **Use of the equipment**

- 1.1 You must satisfy yourself as to the suitability of the equipment for your intended use(s) of the equipment.

#### **Your relationship with the retailer**

- 1.2 Where you consider you have a warranty claim (or any other claim) in relation to the equipment, you must contact the retailer who sold you the equipment, not C-Dax directly. The retailer is responsible for liaising with C-Dax in respect of your claim.

#### **Warranty**

- 1.3 C-Dax warrants to the original purchaser that the equipment is sold free from defects in materials and workmanship for a period of 12 months from date of first retail sale (6 months from date of first retail sale if the equipment is sold in the U.K.) subject to the terms set out below.

- 1.4 C-Dax will at its option repair or replace the defective equipment (or part of the equipment) or notify the retailer of the equipment to refund the purchase price for such defective equipment to you in the event of a breach of this warranty, subject to the terms set out below.

#### **Liability**

- 1.5 Except for the warranty set out in clause 1.2 above, all warranties and representations (including those expressed or implied by law) in respect of the equipment or advice relating to the equipment provided to you by C-Dax are excluded to the extent permitted by law.

- 1.6 Notwithstanding anything else in this manual, C-Dax's maximum liability to you (in the event that such liability exists) in respect of any breach of warranty, any matter set out in this manual, or for defective equipment or advice relating to the equipment provided is limited at C-Dax's option to:

- (a) repairing or replacing the equipment (or part of the equipment); or
- (b) notifying the retailer of the equipment to refund the price for the equipment paid by you.

- 1.7 Notwithstanding anything else in this manual, in no event will C-Dax be liable, whether in contract, tort (including negligence) or otherwise:

- (a) where you have altered or modified the equipment, misused or misapplied the equipment, or the equipment has been subjected to any unusual, excessive or non-recommended use, service or handling (including as set out in this manual);
- (b) where the equipment is not transported, stored, handled or used in accordance with any directions given by C-Dax (or the retailer) to you (including as set out in this manual);
- (c) where the equipment:
  - (i) has been subject to neglect, accident or hireage, or the damage arises from fair wear and tear, battery damage or chemical attack;
  - (ii) has been built to a customer's specifications; or

(iii) has been dismantled, repaired or serviced other than by an authorised service agent of C-Dax;

(d) for loss or damage caused by any factors beyond C-Dax's control; or

(e) for any loss of profit or revenue, or for any special, indirect, incidental or consequential damage, loss or injury of any kind suffered by you.

1.8 Where C-Dax elects to repair or replace the equipment it will use reasonable endeavours to do so as soon as practicable but will not be liable for any delay in doing so.

1.9 You agree that the transactions entered into between you and the retailer (and C-Dax) are for the purposes of trade and that, having regard to all relevant circumstances of the transactions, it is fair and reasonable that the provisions of the Consumer Guarantees Act 1993 (NZ) do not apply to those transactions to the fullest extent permitted by law.

### **OPERATION**

The product to be spread is placed in the hopper. When the spreader is towed forward, the right hand wheel drives through the mechanical clutch and gearbox to turn the spinner in a clockwise direction. The smart controller engages the clutch and rotates the shutter located at the bottom of the hopper to an open position. The size of the opening is based on the user selected application rate, material type and speed of travel.

An extension of the spinner boss is connected to a stainless steel agitator arm inside the bottom of the hopper. The agitator ensures that product flows continuously out of the hopper to the spinning disk.

A delivery chute on the bottom of the hopper ensures that product is delivered to the correct spot of the disk so that the deflectors distribute the product over a wide angle behind and to each side of the spreader.

The clutch system will engage/disengage at a factory setting of 7km/hr while the spreader is in motion.

The canvas cover can be fitted to prevent rain and debris from entering the hopper.

## OPERATING THE SPREADER

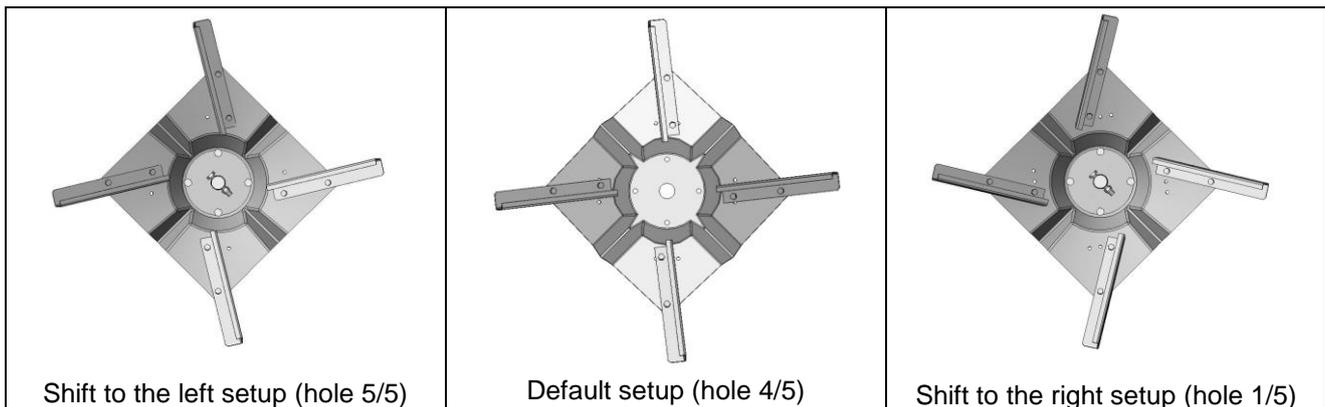
Fill the hopper to the required level, drive to the paddock and begin spreading by following the instructions outlined in the smart controller manual.

### WARNING

To prevent damage to the spreader do not tow the spreader at speeds in excess of 15 Kph.

### Adjusting the Spread Pattern

The spreader has been set up for spreading pelletised fertiliser. When spreading lighter products or products with a high powder content it may be necessary to adjust the deflectors on the spinner to centralise the spread pattern. To shift the pattern to the left (facing forward) the inside end of the vanes should be moved anti-clockwise. To shift the pattern to the right (facing forward) the inside end of the vanes should be moved clockwise. These positions are highlighted in the following diagram.



### WARNING

To prevent damage to the spinner and shrouds, do not operate the spreader unless the screws are tight.

### Fitting the Cover

To fit the rain cover to the hopper, stretch the cover over the hopper, first locating the rear of the cover. Pull the cover forward until it wraps over front edge of the hopper.

## MAINTENANCE

The following maintenance actions are mandatory for reliable use of the spreader.

### Before Use

Check the tyre pressures and charge with air as required. The correct pressure is 15PSI (100Kpa).

Check the hopper to ensure that no debris is inside.

If the spreader has not been used for some time, grease the wheel bearing located in the pillow block mount near the drive wheel.

Check the gearbox for leaks. If leaks are detected it will be necessary to drain and replenish the gearbox with 400ml of SAE 30 oil.

### CAUTION

To replenish the gearbox, the spreader may be inverted to place the filler plug uppermost. However, in doing so extreme care must be taken to prevent damage to the spinner and deflectors.

### After Each Use or Daily When In Use

Remove all traces of product from the spreader by brushing or washing. Pay particular attention to areas where product has accumulated and built up. Remove by scraping if necessary taking care not to damage the surface finish of the spreader or its components.

If washing, do not direct high-pressure water onto the gearbox, axle or wheel bearing seals.

After washing, apply grease to the grease nipple on the wheel bearing and apply water displacing fluid such as WD 40 or LPS3 to all metal parts.

Check for damaged or worn components and replace as required.

### NOTE

**To ensure trouble free operation of the mechanical clutch, pay particular attention to cleaning and removal of any product build-up on the unit.**

### HINTS

The clutch mechanism in the axle assembly utilises a stainless steel shaft and with self-lubricating plastic bushes on the moving part of the clutch. This arrangement does not require greasing and doing so may attract unwanted particulate into the mechanism.

If the drive axle is removed from the axle housing for any reason care must be taken to ensure that both the axle scroll and bush are clean and free of debris before reassembly.

To remove the agitator from the hopper, remove the bolt, which attaches the agitator shaft to the spinner flange assembly then withdraw the agitator from inside the hopper.

When ordering replacement parts always quote the spreader Serial Number and the Part Number of the required part.

The mechanical clutch engage/disengage bolt, which operates the clutch head is intended as a replacement item. If excessive wear is noticed, remove the bolt and replace with part number #2890-0816.