



## CHEMICAL INDUCTION KIT

(Pt.No.2400-0740 Issue 6, October 2015)

### DESCRIPTION

The C-Dax Chemical Induction Kit is an accessory kit for the GoldLine range of three point linkage sprayers.

The system operates when a fluid flow is delivered through the venturi orifice fitting under pressure (nominally 100 psi), the resulting pressure drop in the venturi creates suction through the chemical probe which when placed into the chemical container draws the chemical into the entrained fluid flow and mixes in the tank.

This kit consists of a chemical probe with isolation valve and 2 metres of suction hose, a venturi fitting and an auxiliary pressure regulator valve to isolate the system when not required.

The C-Dax Chemical Induction Kit is fitted as standard to the 1000L GoldLine model, and is optional for the 600L and 800L GoldLine models.

### SPECIFICATIONS

Operating Pressure	50-100 psi (3.5-7 bar nominal)
Inducted Chemical flow	17 litres/minute @ 50 psi (3.5 bar) 20 litres/minute @ 60 psi (4 bar) 25 litres/minute @ 80 psi (5.3 bar) 30 litres/minute @ 100 psi (7 bar)
Venturi Body	Nylon
Chemical Probe	Stainless Steel
Probe Ball Valve	Brass
CD7 Control Unit Valve	Nylon
CD10 Control Unit Valve	Brass

### MODELS

There are 3 models of Chemical Induction Kit available, dependent on the type of pressure control unit fitted to the sprayer.

Control Unit Model	Chemical Induction Model
CD10 or CD6 (all models)	8427-1805
CD7 (all models)	1051
Electric Control Unit (all models)	8427-1800

## 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.

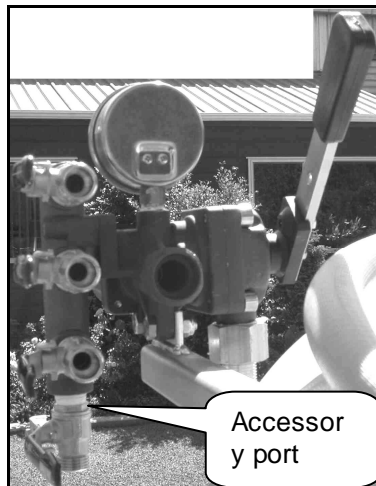
## **INSTALLATION** **(If not already fitted)**

Unpack the unit and identify the components for installation, the following components are included in the kit:

- Chemical probe with shutoff valve
- Chemical probe mount bracket
- Venturi with pressure, suction, and return hoses attached
- Control unit valve
- Attachment fasteners
- Threaded rods
- Instruction leaflet
- Probe Holder

### **CD10 and CD6 Control Unit**

Fit the new control unit valve to the control unit by removing a spare outlet port bung, and screwing an accessory valve into the port (see picture).



*CD10 and CD6*

### **CD7 Control Unit**

Fit the new control unit valve to the control unit by removing the mount bracket on the opposite side of the pressure regulator body from the main boom valves.

Remove the existing threaded rods from the controller, and replace with the 2 threaded rods supplied in the kit.

Fit the new regulator valve onto the threaded rods beside the pressure regulator body and refit the end cap and mount brackets. Tighten the threaded rod nuts to seat joints and O-rings.

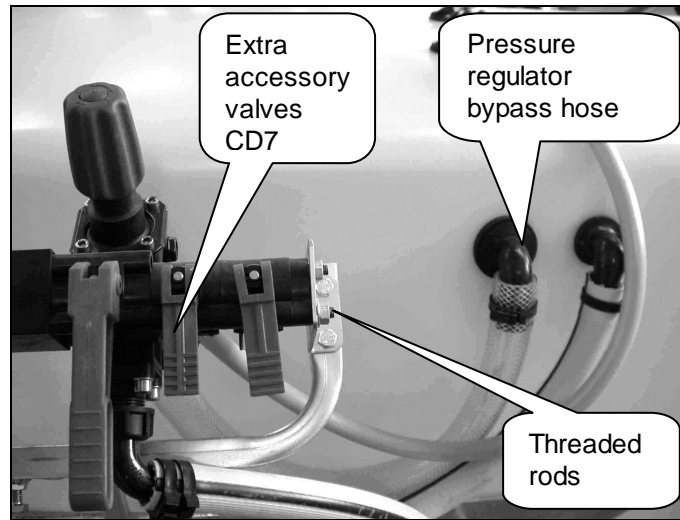
Adjust the width of the regulator stand to accommodate the remodelled regulator, and refit mount bracket to stand.

#### **NOTE**

If fitting only one accessory valve, the new threaded rods will need to be shortened, Reassemble the unit loosely and cut the rods to the required length before final assembly.

If the control unit has one accessory tap fitted and a second is being added, the rods should only require cutting in half, without further shortening.

Refit the pressure regulator body and then the new accessory valve onto the threaded rods, then refit the end cap and mount bracket. Fit the threaded rod nuts and tighten to seat joints and O-rings.  
Adjust the width of the regulator stand to accommodate the remodelled regulator, and refit mount bracket to stand.



*CD7*

### **Electric Control Unit**

Fit the new control unit valve to the control unit by first removing the mounting bracket near the pressure gauge. Remove the nuts, threaded rods and pressure gauge from the unit.

Reassemble the unit loosely with the new control unit valve in-between the pressure gauge and main assembly. Cut the threaded rods supplied with the kit to the required length and insert. Screw the nuts back on tightly and reattach the mounting bracket.

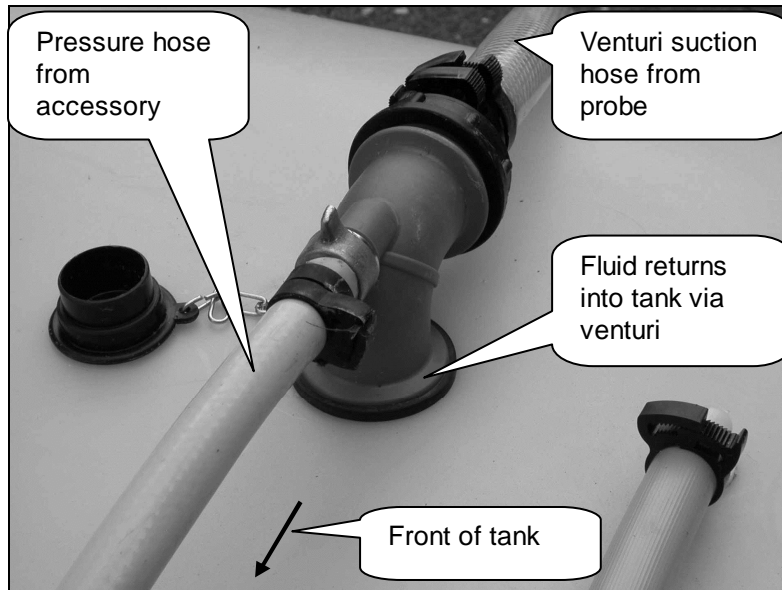


*Electric Control Unit*

## Plumbing

Secure the venturi body into the top of the spray tank through a 40mm hole drilled in the top of the tank beside the tank rinse nozzle if fitted (see picture below).

Connect the 13mm pressure hose from the accessory valve on the control unit to the venturi inlet, secure tightly to prevent leakage.



*Plumbing*

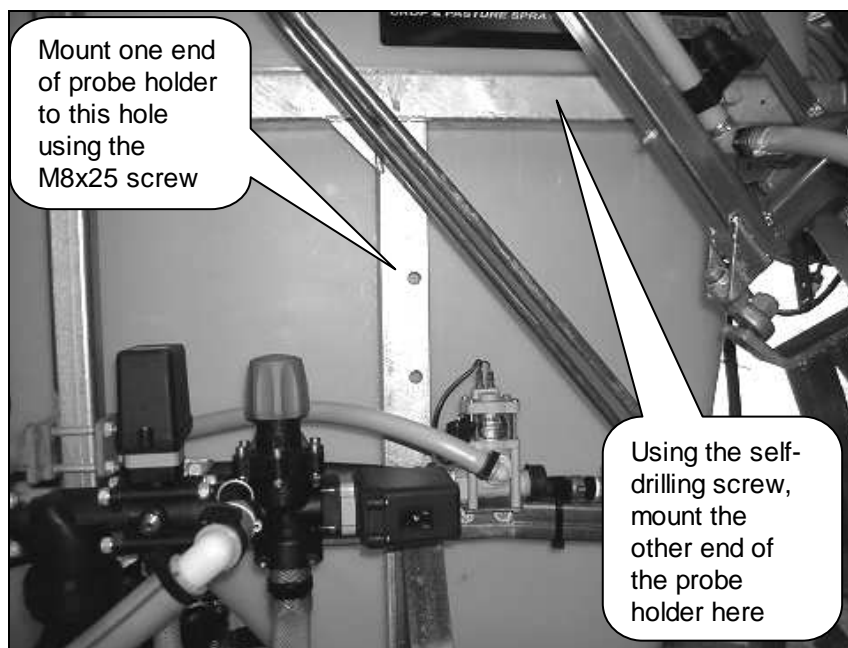
### NOTE

Ensure the venturi hole is on a flat surface to allow the fitting to seal.

## Chemical Probe Holder

Mount the probe holder to the right side of the frame using the M8 screws supplied (see diagram below for details). Secure the standard screw with a Nyloc nut.

Route the venturi suction hose from the probe up the side of the tank, and connect to the inlet hose fitting on the tank mounted venturi. Secure with hose clamps provided.



*Probe Holder Position*

## OPERATION

Ensure control unit pressure control is wound fully out (CCW) and dump valve set to 0 (dump position)

- Run pump at 540 rpm.
- Ensure fluid flows in return line to tank and that there are no leaks.
- Turn lever on control unit to I (pressure position).
- Set control unit pressure to 4 bar (60 psi) (see sprayer owners manual operating section for further control unit instructions).
- Open control unit valve to venturi.
- Place venturi probe into chemical and open probe ball valve.
- When chemical has been drawn into sprayer, close probe ball valve.
- Place probe into fresh water container and draw fresh water into sprayer to rinse.
- Shut off control unit valve.
- Ensure control unit pressure control is wound fully out (CCW) and dump valve set to 0 (dump position)
- Mix sprayer contents thoroughly before spraying commences.

### Operating Hints

Recommended operating pressure for chemical induction is 4-7 Bar (60-100 psi).

#### NOTE

As the chemical induction system relies on fluid flow through the venturi to operate, it is recommended to half fill the sprayer with water before adding chemical.  
Once chemical is added, add remaining amount of water and mix thoroughly.