



Croplands Operators Manual - Diesel Transfer Units

Models:

| | |
|-------------------|----------|
| 200 litres: | US200DN |
| 400 litres Squat: | US400DSQ |
| 400 litres Tall: | US400DS |



US400DS



US200DN

1 : Introduction

Croplands Equipment is a subsidiary of Nufarm Australia Ltd and operates as Croplands Equipment Pty Ltd in Australia and Croplands Equipment Ltd in New Zealand. Croplands are a leading importer, manufacturer and supplier of spraying equipment primarily to the New Zealand and Australian markets, with expanding sales into the USA and Europe. Established in 1972, Croplands is one of the four largest suppliers, with the largest range, of spraying equipment to the Australasian market.

This manual covers the Croplands' range of Diesel transfer tanks with tank capacities of 200 litres and 400 litres.

These diesel tanks are manufactured to a high standard for use in Agriculture, Horticulture and Mining, for operators / contractors big and small.

As the owner of a Croplands Diesel transfer tank, please read this manual thoroughly to fully familiarise yourself with all aspects of the safe and correct operation of this unit. Maintenance information and useful tips have been noted so please use these to get the best from your diesel transfer tank.

Should you need any support or advice on the set up and use of your sprayer, contact your local Croplands dealer or contact Croplands Customer Support.

Croplands Dealers are listed on www.croplands.com.au under "dealers" in the menu
Croplands can be contacted in Australia on 1800 999 162, and in New Zealand on 0800 106 898.

No liability can be accepted for any inaccuracies or omissions in this publication, although due care has been taken to make it as complete and accurate as possible.

The information, illustrations and technical data were considered to be correct at the time of preparation. In accordance with our policy of continuous development, Croplands Equipment Pty Ltd reserves the right to make changes at any time without notice.

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3 : About Your Warranty

Croplands Equipment Pty Ltd will honour any warranty repair in line with the policy outlined on the following page. The following information will assist you in understanding our warranty procedures.

Any authorised Croplands Dealer or service outlet can perform warranty repairs, however we recommend that the Dealer or Reseller from whom you bought the machine carry out any such repairs.

Most warranty repairs are handled routinely, but sometimes requests for repairs cannot be accepted under warranty. Normal wear and tear is not covered by warranty nor does warranty apply if a machine fails prematurely and that failure can be attributed to abuse or neglect.

Whilst Croplands will abide by its warranty policy under all genuine circumstances, we must emphasise that such can only apply when our equipment has been used in applications for which it was designed and manufactured and that a reasonable degree of care and common sense has been exercised by the operator.

Warranty Repair Site

The warranty provides for repairs to be carried out at the servicing dealer's normal place of business. An owner may elect to have repairs carried out at his own residence, but whilst Croplands will accept the actual repair cost of the failed component(s), the travelling costs will not be covered under warranty.

Items Not Covered By Warranty

The warranty does not allow for the cost of the following items. ***These are the responsibility of the owner.***

1. Labour to travel to and from a breakdown or for any distance charges
2. Labour premiums that might apply for any repairs that are made outside the dealer's normal business hours
3. Transportation costs of the machine to and from the service outlet
4. Freight costs of the machine to and from the service outlet
5. Telephone or fax calls made by the owner in connection with the repairs



4 : Warranty Policy

Croplands Equipment Pty Ltd (trading as Croplands) warrants to its authorised Dealer, who in turn, warrants to the original purchaser (Owner) that each new Croplands' sprayer, part or accessory will be free from proven defects in material and workmanship for twelve (12) months from the date of delivery to the first Owner according to the conditions outlined. This warranty does not cover damages resulting from abuse, accidents, alterations, normal wear or failure to maintain or use the Croplands product with due care.

During the warranty period, the authorised Croplands Dealer shall repair or replace, at Croplands option, without charge for parts and labour any part of the Croplands product, which fails because of defects in material or workmanship. The Owner must provide the authorised Dealer with prompt written notice of the defect (within 14 days of its occurrence), and allow reasonable time for replacement or repair. Repair may, at Croplands option, include the replacement of parts with functionally equivalent reconditioned or new parts. Replacement parts will be warranted for the balance of the original warranty period or for ninety (90) days, which ever is longer. Croplands (at its option) may request failed parts to be returned to the factory. Any travel time of a service technician and/or transportation of the Croplands product to the authorised servicing Dealer for warranty work are the responsibility of the Owner.

EXCLUSIVE EFFECT OF WARRANTY AND LIMITATION OF LIABILITY

THIS WARRANTY IS IN LIEU OF ALL WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PURPOSE OR OTHER REPRESENTATIONS, WARRANTIES OR CONDITIONS, EXPRESSED OR IMPLIED. The remedies of the Owner set forth herein are exclusive. CROPLANDS neither assumes nor authorises any person to assume for it any other obligation or liability in connection with the sale of covered machines. Correction of defects, in the manner and for applicable period of time provided above, shall constitute fulfilment of all responsibilities of CROPLANDS to the Owner, and CROPLANDS shall not be liable for negligence under contract or in any manner with respect to such machines. IN NO EVENT SHALL THE OWNER BE ENTITLED TO RECOVER FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES SUCH AS BUT NOT LIMITED TO, LOSS OF CROPS, LOSS OF PROFITS OR REVENUE, OTHER COMMERCIAL LOSSES, INCONVENIENCE OR COST OF RENTAL OR REPLACEMENT EQUIPMENT.

Conditions of Warranty

1. The warranty is not transferable.

2. The Warranty Registration Form must be returned to Croplands by the Owner Operator within 14 days of taking delivery of the unit. Only when warranty registration is completed and returned, can Croplands fulfil all warranty obligations.

3. Schedule of components and conditions not covered by warranty are:

| | |
|---|---|
| Abuse | Failure resulting from neglect, such as improper operation, lack of required maintenance or continued use of a sprayer after the discovery of a defect which results in greater damage to the unit. |
| Environmental Conditions and Application | Deteriorated or failed components such as: diaphragms, O-rings, hoses, seals, electrical wiring and connections damaged by corrosive chemicals, dirt and sand, excessive heat or moisture. Owners should ensure the type and strength of chemicals used in the sprayer are compatible with the design of the unit. Warranty determination for these types of failures will be made by Croplands only after inspection of failed components. In most instances these will incur inspection charges and cost of replacement parts. |
| Normal Wear | Normal wear and consumable items such as: oils and lubricants, diaphragms, filter elements, flow meters, clutches, fan belts, drive belts, pivot pins, paint, light bulbs and nozzles are considered to be normal wear items and are not warranted. |
| Maintenance | Component failure caused by not performing scheduled maintenance service such as: oils, grease, failure to clean tanks, pumps, filters, spray lines, nozzles or any other blocked components. Not tightening or replacing loose or missing bolts, nuts, fittings, shields and covers. |
| Damage | Damages or machine failure caused by carelessness or accidental damage, improper operation, excessive speed during travel and operation, inappropriate transportation or storage of the sprayer or attachment. |
| Power Source | Failures due to faulty or inadequate electrical sources of power. Owners who use their own 12 volt power source must make sure that it is suitable for operating the spraying equipment. |
| Alterations | Any unauthorised alteration, modification, attachments or unauthorised repairs to the Croplands sprayer or attachments. Written approval must be obtained from Croplands for any such items to maintain warranty. |
| Removal & Installation | The time taken to remove and re-install a warranted part or component into other brands of sprayers will not be covered by Croplands warranty. Only parts and labour directly attributable to the repair of the Croplands unit is covered. |
| Clean-up Time | Croplands do not pay for cleaning the sprayer, parts, accessories or work area before or after the warranty repair. Clean-up time is affected primarily by the application or conditions in which the sprayer is operated and maintained. Since clean-up time can be so variable, cleaning time should be considered a customer expense. |
| Transportation | Warranty does not cover transportation or insurance costs for sprayers or other equipment needing repair or replacement of warranted components. Nor does it cover any freight or insurance costs in obtaining new parts or returning old parts to Croplands for inspection purposes. |
| Costs | Warranty does not cover time required to diagnose a warranty problem. Diagnostic time is affected greatly by the training and expertise of the technician employed to do the job. With proper training of service personnel, diagnostic time should be at a minimum. |
| Diagnostic Time | Croplands expects that Dealers will assign a well trained and proficient technician to handle any warranty repairs. Since Croplands is not in control of either of these responsibilities, we elect not to cover diagnostic time. |
| Non-Genuine Parts | Use of parts other than Croplands parts for repair of warranted parts will automatically negate any warranty. Warranted components must be replaced with genuine Croplands repair parts. |
| Unauthorised Repairs | Repairs by an unauthorised agent will automatically forfeit any warranty. An authorised Croplands Dealer must carry out warranty repairs. |

5 : Pre Delivery Check List & Warranty Registration

Warranty Policy:

The Warranty Registration Form must be returned to Croplands by the Owner Operator within 14 days of taking delivery of the unit. Only when warranty registration is completed and returned, can Croplands fulfil all warranty obligations.

The warranty policy commences with installation. The warranty period is 12 months under normal conditions (6 months for contractors). This **form must be completed by both Owner and Dealer**, and the original returned by the Dealer to Croplands.

(Dealer and customer should keep a copy).

| | |
|---|---|
| Date Purchased: | |
| <i>Tick Each box to affirm completion</i> | ✓ |
| Operator manuals supplied: (This + Pump) | |
| Tank: | |
| - Undamaged | |
| - XD137 Warning decal in place | |
| - XD134 Environment decal in place (NZ Only) | |
| - Lid fitted & can be locked | |
| Earthing: - Earth Lead & Clip attached | |
| Suction line: | |
| - Undamaged | |
| - Pump & fittings sealed | |

| | |
|---|---|
| Serial Number: | |
| <i>Tick Each box to affirm completion</i> | ✓ |
| Pump: | |
| - Power lead & Clips in good order | |
| - Check operation | |
| Delivery hose: | |
| - Undamaged | |
| - Hoses & fittings sealed | |
| - Hoses not kinked | |
| - Check operation | |
| Diesel gun: | |
| - Undamaged | |
| - Check operation | |

Important: By executing this Installation & Warranty Certificate:

1. The Owner:

- 1.1 Agrees that all Sprayer operators must read the Operator's Manual before using the Sprayer and follow all the procedures in the manual for the use of the Sprayer, and will exercise due care in the use of the Sprayer;
- 1.2 Agrees that Croplands' liability for any loss or damage suffered by the owner in connection with the owner's use of the Sprayer is limited to the cost of repair or replacement of the Sprayer;
- 1.3 Agrees that the owner will bear any loss the owner suffers as a consequence of any failure by the owner to comply with 1.1 above;
- 1.4 Acknowledges that the owner is trained and is fully responsible for the safe and correct operation of the Sprayer;
- 1.5 Agrees that the owner will fully train any person who is required to operate the Sprayer, as to how to operate the Sprayer in a safe and correct manner.

2. The Dealer: undertakes that it has met the obligations of installation, service and warranty start up.

| | |
|---|--|
| <p>Owner:</p> <p>Farmer <input type="checkbox"/> Contractor <input type="checkbox"/></p> <p>Name (Print):</p> <p>Address:</p> <p>Postcode:</p> <p>Phone:</p> <p>Fax:</p> <p>Email:</p> <p>Owner's Signature:</p> <p>Installation Date:</p> | <p>Dealer:</p> <p>Dealership Name (Print):</p> <p>Address:</p> <p>Postcode:</p> <p>Phone:</p> <p>Fax:</p> <p>Email:</p> <p>Dealer representative's Name:</p> <p>Dealer representative's Signature:</p> <p>Date:</p> |
|---|--|

6 : Safety Information

Rules for Diesel Tank Operation:

- Always read your diesel tank operator's manual thoroughly before operating. Accidents occur every year because of careless use of farm chemicals and farm machinery. You can avoid these hazards by observing these safety instructions.
- Inspect hose and hose connections daily. Always wear rubber gloves when tightening connections. Damaged, loose or worn hoses could result in operator being exposed to diesel, which could result in illness or faulty operation.
- When transporting or moving your diesel tank always position it on a stable surface, failing to do this could allow the tank to fall, which could result in crushing of personnel.
- Check the diesel tank, prior to each use, for any loose connections, and any leaks. These precautions can prevent injury to personnel and damage to equipment.
- Use only genuine Croplands parts for any necessary replacement. All parts are important to the equipment design. Homemade parts may look the same but could be dangerous in operation.
- Always wear gloves whilst handling diesel, as diesel can be harmful to health.
- Always replace warning decals when damaged and make certain operator understands proper safety practices.
- Do not disconnect any hoses nozzles or filters while diesel pump is in operation. Disconnecting components while under pressure will result in uncontrolled spray discharge, which may be hazardous to humans.
- Keep unit under cover to prolong the life of the diesel pump and unit.

Diesel is a combustible substance:

Your workplace is required to have a **Material Safety Data Sheet (MSDS)** if storing diesel, for reference in the case of an emergency.

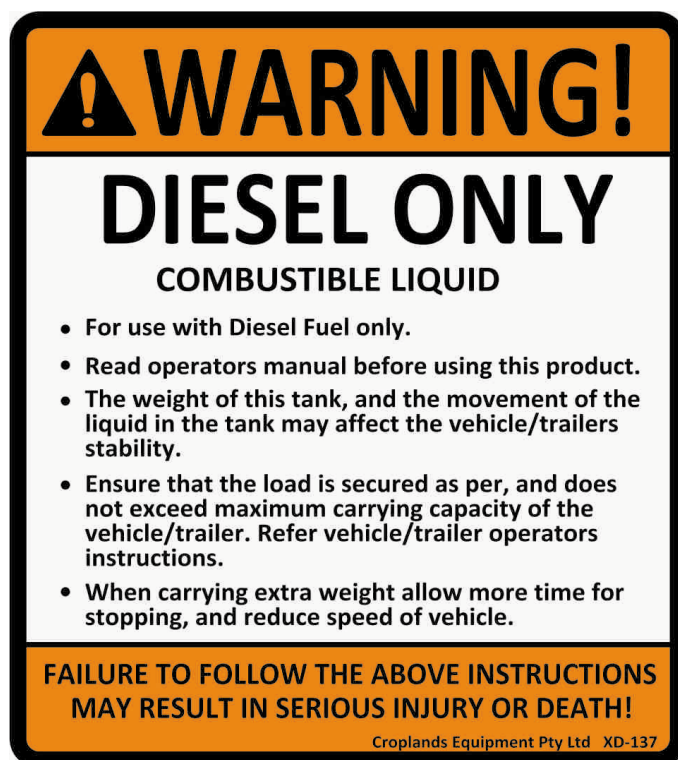
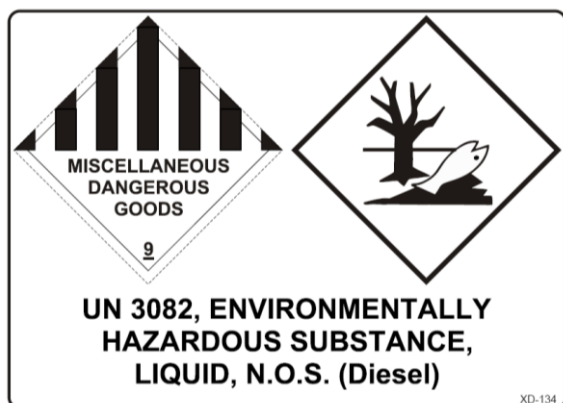
To obtain a MSDS for the diesel you bought, ask the supplier of the Diesel for the MSDS, they are required to be able to supply a MSDS with the fuel they store.

Failure to follow these instructions may result in serious injury or death!

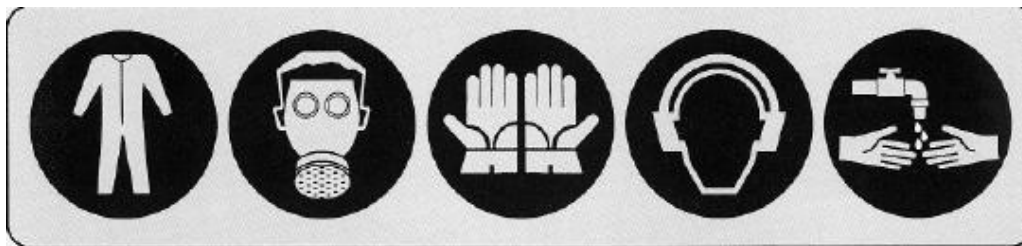
Safety Decals

The Diesel Only label is moulded into the tank lid. If the lid is lost, it should be replaced.

The Environmentally Hazardous Substance Label is required for New Zealand users.



7 : Safety With Chemicals



**Safety must be an Integral Part of Chemical Farming Operations,
Not Just an After Thought!**

The Hazard

All agricultural chemicals or pesticides, as they are commonly called, are biologically active. When handled incorrectly or carelessly, they can be dangerous to all living organisms such as humans, birds, fish, bees, domestic animals and plants.

Poisoning

- **Oral** - Direct by drinking, splashing into mouth, eating and smoking with contaminated hands, eating sprayed produce, cleaning nozzles with mouth.
- **Inhalation** - Nose, mouth, but predominately the lungs.
- **Dermal** - Absorption through the skin. Increased when skin is broken or perspiring.
- What protective clothing and equipment is needed?
- Know the correct first aid/safety in case of poisoning.
- Seek medical advice if chemicals affect health.

Using the Product

- Use the right protective clothing when handling the chemical.

Rate of Absorption

- While chemicals are absorbed more completely orally and by inhalation, greater exposure and more poisonings occur through skin (dermal) contact.

Keep diesel tank and Safety Equipment in Good Working Condition

- Replace hoses and fittings, or seals if they leak.
- Do not use worn, faulty or contaminated safety equipment.

Protective Safety Equipment

- The amount and type of protective clothing and equipment is determined by the type of chemicals, degree and duration of exposure, weather conditions and application equipment used. Read and follow the direction on the label. Over protection can be uncomfortable and unnecessary.

Safety Precautions

1. **Be SURE** the equipment is functioning correctly. Check all aspects of the machine operation are correct.
2. **Be SURE** to follow the warning labels.
3. Make sure you have access to the Material Safety Data Sheet (MSDS), in the case of an emergency.

8 : Specifications

Tank:

Constructed from UV-stabilised medium density polyethylene for low distortion qualities & impact resistance.

Lid is lockable.

Capacity of 200 & 400 litres (including 400 Lt Squat version)

Pump:

12V DC 140W, 22Amp

Max open flow: 40 ltr/min

Duty cycle: 30 minutes. This means 30 minutes on, and then 30 minutes power off cooling phase.

Failure to follow this will void warranty.

12 Volt Only

Warning:

Functioning pump under by-pass conditions (pump on, trigger not pulled) can only be run for a short time (2-3 minutes maximum). **Failure to run pump without diesel for more than 2 minutes may cause damage to the pump, and is not covered by warranty.**

Operating temperature of pump:

Min: -10°C

Max: 50°C

Never start or stop the pump by connecting or disconnecting the power supply.

Warning:

Diesel pump should be kept under cover, and not exposed to wet weather.

Water may cause pump to fail – this is not covered by warranty.

Electricity can be very dangerous in wet weather. Do not expose motor or wiring to wet weather.

Filters:

There is a (brass) check valve and strainer attached to the foot of the suction line.

Dimensions:

US200DN

Length: 1180 mm

Width: 800 mm

Height: 475 mm

US400DSQ (squat)

Length: 1650 mm

Width: 800 mm

Height: 600 mm

US400DS (taller)

Length: 1180 mm

Width: 800 mm

Height: 795 mm

Earthing Strap:

The earth strap is for use whilst filling or dispensing diesel, attach to the pump filling the tank, or to the unit you are filling. This is to avoid a possible spark causing danger (especially in hot weather).



Electronic Counter:

Slim in-line easily mountable counter

Resettable per fill

Counting total

2 x AAA Battery

Temperature range 0°C - 60°C

Screen turns on when it detects flow, screen will automatically turn off after a minute of no use.

Typical accuracy is ± 2.5%

(accuracy can vary to ± 5%).

Rated flow 10 – 100 Litres per minute



9 : Operation

To transfer diesel:

1. Read instruction manual.
2. Read warning labels on tank and pump.
3. When you understand the first two, then proceed to the following steps.
4. Attach earth strap to suitable (grounded) object.
5. Remove filler cap, fill the tank with diesel from service outlet (take care to not splash diesel), replace filler cap (2 clicks). You are now ready to transfer fuel.
6. Ensure pump is switched off, then attach power cords to a 12 volt battery. **Failure to turn pump off before connecting, could damage pump, and is not covered by warranty.**
7. Remove fuel cap from item to fill.
8. Uncoil hose and put nozzle into the unit to fill.
9. Turn the pump on. Note ...
 - Do not leave pump on for more than 2-3 minutes without pulling trigger on the handpiece.
 - Turn pump off when not filling.
10. Pull the trigger on the nozzle handpiece.
11. Watch the level of the diesel to ensure that you do not overfill the tank.
12. Return everything back to original state for storage.



Padlock can be used here



10 : Maintenance

General maintenance

Before using the tank, check for any leaks in the seals and fittings.

Before doing any maintenance disconnect from power source, to prevent unexpected pump operation.

Filters

Clean inlet filters as needed, checking each time you fill the tank. If this filter is collecting too much dirt, then you may be required to check the filter on the inlet.

If undoing any fittings, when you put them together again, apply appropriate thread tape or sealant to ensure a good seal.

There is a filter on the suction dropper.



Pump usage:

Diesel pump should be kept under cover, and not exposed to wet weather.

Water may cause the pump to fail – and this is not covered by warranty.

Electricity can be very dangerous in wet weather. Do not expose to wet weather.

11 : Spare Parts

Use the below codes when ordering spare parts. Not all hardware items are listed.

| Part Number | Group | Description |
|-----------------|---------|---|
| P200DN-RAW | RAWTANK | TANK 200L UTEMATE DIESEL, inc Cap |
| P400DSQ-RAW | RAWTANK | TANK 400L SQUAT UTEMATE DIESEL, inc Cap |
| P400DS-RAW | RAWTANK | TANK 400L UTEMATE DIESEL TANK, inc Cap |
| UP-184 | CAP | (spare) CAP for UTEMATE DIESEL TANK |
| UP-450 | PUMP | DIESEL PUMP 40LPM |
| UP-450-1 | NOZZLE | NOZZLE DIESEL AUOTO SHUTOFF |
| UP-450-2 | SWIVEL | SWIVEL 3/4 – 1" |
| UP-450-3 | SWITCH | SWITCH FOR UP-450 |
| UP-453 | METER | DIESEL COUNTER ELECTRONIC |
| UP-174 | CABLE | EARTH CLIP & CABLE ASSY |
| GP-POMDIES-2012 | MANUAL | Operators Manual, Diesel Tank |

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