

SPRAYER SPECIFICATIONS SAFETY, WARRANTY & DELIVERY LINKAGE

CROPLANDS

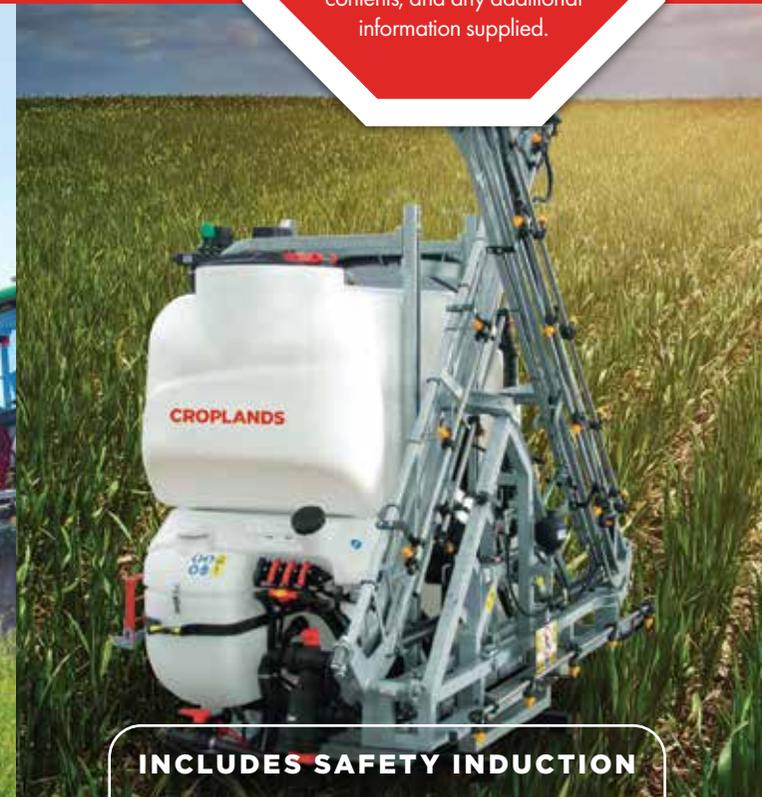
WWW.CROPLANDS.COM.AU

STOP

BEFORE COMMENCING
operation, **ENSURE** you read
& understand this manual, its
contents, and any additional
information supplied.



GP-WARL-B



INCLUDES SAFETY INDUCTION



CROPLANDS IS CONTRIBUTING TO A SUSTAINABLE FUTURE

GENERAL MANAGER'S WELCOME



Sean Mulvaney
General Manager

Dear Customer

Congratulations on the purchase of your new sprayer and thank you for supporting another true blue Australasian manufacturer.

For over 50 years Croplands have been delivering spraying solutions and ongoing support for a variety of applications whilst investing in long term partnerships with our suppliers, distributors, end users and local communities. These partnerships are absolutely key in our commitment to support our products into the future.

At Croplands, we are committed to sourcing the very best technology from around the globe and adapting these products to our specific requirements. When these products don't yet exist, we innovate through continuous investment in our own research and development.

Croplands is a wholly owned subsidiary of Nufarm Ltd, the largest supplier of crop protection products in Australasia. This brings a unique understanding and collaborative approach to new market developments, challenges and opportunities.

Please take the time to thoroughly read this manual before you operate your sprayer. This will provide direction to ensure safe usage and help optimise the performance of your investment. Your feedback is welcome and valued.

We trust you will be happy with your sprayer and the level of support - our goal is to be your preferred spraying solutions partner from this point onwards.

Yours Sincerely

Sean Mulvaney
General Manager



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Croplands has taken steps to ensure this operator's manual is as current and as accurate as possible. Due to the ever-changing markets of cropping and farming, Croplands is constantly striving to be at the forefront of innovation and technology. While the information in this manual is considered accurate at the time of writing, Croplands reserves the right to change this information without notice. Croplands will not accept liability for any inaccuracy in this publication, or changes forthwith.

SPRAYER SPECIFICATIONS & FACTORY FITTED OPTIONS

IMPORTANT! Please keep this unique Serial Number & Sprayer Specification Sheet for future reference.



Dealer Copy

Remove this page and store it with the "yellow":

- Predelivery Check List page and
- Warranty Registration page.

ONLINE PARTS INFORMATION

WARRANTY & PRE-DELIVERY

Please see your Croplands Equipment dealer for provision of all Warranty Services

Croplands Customer Service

Australia

Freecall: **1800 999 162**

Freefax: **1800 623 778**

sales@croplands.com.au

www.croplands.com.au

New Zealand

Freecall: **0800 106 898**

Freefax: **0800 117 711**

sales@croplands.co.nz

www.croplands.co.nz

Note: The Operators Manual is supplied with each sprayer does not include all detailed parts information. Parts information is provided online & must be sourced from the Croplands website.

SPRAYER SPECIFICATIONS & FACTORY FITTED OPTIONS

IMPORTANT! Please keep this unique Serial Number & Sprayer Specification Sheet for future reference.



Owner Copy

DO NOT REMOVE this page.

ONLINE PARTS INFORMATION

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TRANSPORT & PRODUCT ID

TRANSPORT

See Operator Manual for sprayer size, weights and towing speeds.

Where applicable, all controllers, manuals, wiring looms, etc, are supplied in a separate, sturdy, weather resistant transport box.



A transport box

PRODUCT IDENTIFICATION

Always use the serial number of the Sprayer when requesting service information or when ordering parts.

Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure for specific service operations.



Sprayer Serial Number

Sprayer Serial Number Plate

The Sprayer Serial Number Plate is located on the chassis/frame.

This plate shows name of manufacturer, serial number, product code and date of manufacture.

AR PUMP SERIAL NUMBER



AR Pump Serial Number

The Pump Serial Number Plate is located on the pump.

This plate shows name of manufacturer, serial number, type of pump, year of manufacture, maximum flow rate and maximum working pressure of the pump.

CONTROLLER SERIAL NUMBER(S)

When fitted, controller serial numbers are generally located at the rear of the unit.



Bravo 180S Controller

SAFETY

SAFETY FIRST

Please read and understand all supplied manuals, guides and safety decals before operating this sprayer. This includes the **Croplands Operators Safety Manual** – as pictured here.

This manual is available on the Croplands Web site, or for printed versions contact Croplands customer support and ask for part number GP-SAFE-A (or later version if available).



DELIVERY SAFETY INDUCTION

Safety is one of Croplands core values.

We ask that our customers complete this Safety Induction in the presence of a Dealer and/or Croplands representative as a part of the sprayer's delivery process.

Key statistical facts with regards to farm safety.

- Agricultural operations can be dangerous.
- Vehicular accidents are one of the highest risks within agricultural operations.
- Persons over 65 are at a greater risk.
- Children are at a high risk.

Don't become a statistic.

Key Factors;

- People
- Chemicals
- Machinery
- Environment

Responsibility for operator training, operational conditions, chemical safety, and day to day spraying operations including emergency procedures is a shared responsibility of the spray plant owner, operator and farm management (might be the same entity). The following sprayer safety assessment questions need to be addressed.

DELIVERY SAFETY INDUCTION

Every Croplands sprayer is supplied with a Safety Manual.	Confirm the delivery of this manual	Must be read before operating
The sprayer is equipped with safety decals.	Identify and understand each decal	Refer page 9 of the safety manual.
Risk Assessment / Fit to Work / Chemical Safety / Work environment & Weather	A Risk Assessment of all safety factors should be undertaken before operating the sprayer	Refer pages 4, 5, 6, 7 & 8 of the safety manual.
PTO Shaft installation and safety practices. Where possible Croplands use hydraulic driven pumps.	Correct installation of the shaft, all guards in place, correct clothing, and an understanding of PTO dangers.	Refer pages 16 of the safety manual.
Emergency Procedures / PPE / First Aid	Never operate the sprayer without an emergency action plan / appropriate Personal Protective Equipment or suitable first aid kit.	Refer page 6 of the safety manual.
Competent operators	All operators must be competent to operate this sprayer <ul style="list-style-type: none"> • be conversant of all safety issues • be familiar with all controls • be aware of all emergency procedures. 	Refer page 4 of the safety manual.
Is this the correct sprayer for the task – is this the correct tractor – loads must not exceed allowed tractor weights	Consult with tractor specifications.	Refer pages 10 & 19 of the safety manual.
The dangers of carrying a sprayer. Comply with all relevant road rules and regs.	<ul style="list-style-type: none"> • Sprayer must be properly connected, and booms folded. • Do not exceed travel speeds • Do not operate on excessively sloping, slippery or irregular surfaces. 	Refer page 10, 18 & 19 of the safety manual.
If 2 or more persons are working around sprayer, ensure you are aware of each other's activities.	Never operate any function without checking on the whereabouts of other people, especially children.	Refer pages 11, 12, 15, 17 & 19 of the safety manual.
Identify moving parts and crush points. Stay clear of the machine when operating.	Booms and linkage connections, all contain potential crush points. Identify them before use.	Refer page 16 of the safety manual.
Correct hydraulic connections to the tractor, and free of entrapment.	Always double check hydraulic connections. Failure to correctly connect the return line can lead to catastrophic failure.	Refer page 14 of the safety manual.
Power line awareness is vital to all sprayers with folding boom arms.	Take 5 for hazard identification, potential risks and control measures.	Refer page 18 of the safety manual.
Fan awareness. Never operate without safety guards in place (refer to maintenance).	Always stay well clear of fan PTO drives (where applicable), fan air intake and output.	Refer page 16 of the safety manual.
Always connect the sprayer to tractor before operating the boom or filling tanks.	Always use wheel chocks when not connected to a tractor	Refer page 16 of the safety manual.
Identify tanks and fill points for fresh water only	Keep the sprayer clean and free of chemical residue. Keep the fresh-water fill and hand-wash points clean.	Refer page 7 of the safety manual.
Regular maintenance and daily / pre-start checks are vital.	Safe operation starts with a frequently checked & well maintained machine. <ul style="list-style-type: none"> • Keep filters clean. • Maintain electrical connections 	Refer page 9, 11, 12 & 13 of the safety manual.

OWNER

Owner's Name (print)

Address

Postcode

Phone

Mobile

Email

Signature of Owner

Date

/ /

DEALER

Dealership Name (print)

Address

Postcode

Email

Signature of Dealer Representative

Date

/ /

Machine Serial #

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Date / /

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OWNER

Owner's Name (print)

Address

Postcode

Phone

Mobile

Email

Signature of Owner

Date / /

DEALER

Dealership Name (print)

Address

Postcode

Email

Signature of Dealer Representative

Date / /

Machine Serial #

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DELIVERY CHECKLIST & CUSTOMER INDUCTION

This check list must be completed & signed by both the Owner and the Dealer, and the white copy returned by the Dealer to Croplands. Prior to delivery to the dealer, this sprayer has undergone extensive checks and testing at the factory.

✓ Tick each box to affirm completion

1. Operator's Manuals Supplied

Sprayer Operators Manual
Safety Manual
Spray Rate Controller Manual (where applicable)
Pump Manual
Spraywise book (where applicable / check version)
Other

2. Upon delivery, and if necessary, unloading and final assembly, perform a thorough "pre-flight" inspection of the sprayer, checking

Chassis / boom structure is undamaged and paint in good order
Check all tanks are undamaged, tank lids open and seal shut correctly. Basket strainer in place
Check for any loose fittings
Identify & check all grease points
Check all decals are in place

3. Connect to the Owner's tractor (not all options will apply)

Confirm the tractor is suitable
Connect via linkage pickup's (version dependent)
Connect Quantum Fan hydraulics – double check connection "to tank"
Connect PTO shaft
Connect boom function hydraulics
Connect spray controller and securely mount in cab
Connect boom and fan control

4. Open the boom to spray position

Confirm boom hydraulics and unfold/fold
Check boom alignment and adjust if necessary
Check and adjust boom docking
Check hoses do not kink or jam whilst unfolding / folding
Check all mounting bolts & nuts are tight

✓ Tick each box to affirm completion

5. Fill all tanks with sufficient fresh water to enable checking

Confirm the fill and drain functions for all tanks
Remove & clean fill filter

5A. For Quantum Mist Fans (where fitted)

Adjust and set fan positioning
Check that all safety guards are in place, and secure
Double check hydraulic return line "to tank"
Check fan operation throughout required rpm range

6. Check the operation of all spray functions (not all options will apply)

Set maximum system pressure
Agitators
Main tank rinse
Probe
Hopper
Fence-line nozzle
Check and resolve nozzle blockages or leaks
Remove & clean spray filters

7. Other checks (as applicable)

Check & calibrate controller operation
Perform speed calibration
Check for hydraulic or spray system leaks
Drain tanks

OWNER

- Farmer
 Contractor

Owner's Name (print)

Address

Postcode

Phone

Mobile

Email

Signature of Owner

Date / /

DEALER

Dealership Name (print)

Address

Postcode

Email

Signature of Dealer Representative

Date / /

Machine Serial #

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✓	Chassis / boom structure is undamaged and paint in good order
✓	Check all tanks are undamaged, tank lids open and seal shut correctly. Basket strainer in place
✓	Check for any loose fittings
✓	Identify & check all grease points
✓	Check all decals are in place

3. Connect to the Owner's tractor (not all options will apply)

✓	Confirm the tractor is suitable
✓	Connect via linkage pickup's (version dependent)
✓	Connect Quantum Fan hydraulics – double check connection "to tank"
✓	Connect PTO shaft
✓	Connect boom function hydraulics
✓	Connect spray controller and securely mount in cab
✓	Connect boom and fan control

4. Open the boom to spray position

✓	Confirm boom hydraulics and unfold/fold
✓	Check boom alignment and adjust if necessary
✓	Check and adjust boom docking
✓	Check hoses do not kink or jam whilst unfolding / folding
✓	Check all mounting bolts & nuts are tight

✓ Tick each box to affirm completion

5. Fill all tanks with sufficient fresh water to enable checking

✓	Confirm the fill and drain functions for all tanks
✓	Remove & clean fill filter

5A. For Quantum Mist Fans (where fitted)

✓	Adjust and set fan positioning
✓	Check that all safety guards are in place, and secure
✓	Double check hydraulic return line "to tank"
✓	Check fan operation throughout required rpm range

6. Check the operation of all spray functions (not all options will apply)

✓	Set maximum system pressure
✓	Agitators
✓	Main tank rinse
✓	Probe
✓	Hopper
✓	Fence-line nozzle
✓	Check and resolve nozzle blockages or leaks
✓	Remove & clean spray filters

7. Other checks (as applicable)

✓	Check & calibrate controller operation
✓	Perform speed calibration
✓	Check for hydraulic or spray system leaks
✓	Drain tanks

OWNER

- Farmer
 Contractor

Owner's Name (print) _____

Address _____

Postcode

Phone _____

Mobile _____

Email _____

Signature of Owner _____

Date ____ / ____ / ____

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<input type="checkbox"/>	Other
<input type="checkbox"/>	

2. Upon delivery, and if necessary, unloading and final assembly, perform a thorough "pre-flight" inspection of the sprayer, checking

<input type="checkbox"/>	Chassis / boom structure is undamaged and paint in good order
<input type="checkbox"/>	Check all tanks are undamaged, tank lids open and seal shut correctly. Basket strainer in place
<input type="checkbox"/>	Check for any loose fittings
<input type="checkbox"/>	Identify & check all grease points
<input type="checkbox"/>	Check all decals are in place
<input type="checkbox"/>	

3. Connect to the Owner's tractor (not all options will apply)

<input type="checkbox"/>	Confirm the tractor is suitable
<input type="checkbox"/>	Connect via linkage pickup's (version dependent)
<input type="checkbox"/>	Connect Quantum Fan hydraulics – double check connection "to tank"
<input type="checkbox"/>	Connect PTO shaft
<input type="checkbox"/>	Connect boom function hydraulics
<input type="checkbox"/>	Connect spray controller and securely mount in cab
<input type="checkbox"/>	Connect boom and fan control
<input type="checkbox"/>	

4. Open the boom to spray position

<input type="checkbox"/>	Confirm boom hydraulics and unfold/fold
<input type="checkbox"/>	Check boom alignment and adjust if necessary
<input type="checkbox"/>	Check and adjust boom docking
<input type="checkbox"/>	Check hoses do not kink or jam whilst unfolding / folding
<input type="checkbox"/>	Check all mounting bolts & nuts are tight
<input type="checkbox"/>	

✓ Tick each box to affirm completion

5. Fill all tanks with sufficient fresh water to enable checking

<input type="checkbox"/>	Confirm the fill and drain functions for all tanks
<input type="checkbox"/>	Remove & clean fill filter
<input type="checkbox"/>	
<input type="checkbox"/>	

5A. For Quantum Mist Fans (where fitted)

<input type="checkbox"/>	Adjust and set fan positioning
<input type="checkbox"/>	Check that all safety guards are in place, and secure
<input type="checkbox"/>	Double check hydraulic return line "to tank"
<input type="checkbox"/>	Check fan operation throughout required rpm range
<input type="checkbox"/>	
<input type="checkbox"/>	

6. Check the operation of all spray functions (not all options will apply)

<input type="checkbox"/>	Set maximum system pressure
<input type="checkbox"/>	Agitators
<input type="checkbox"/>	Main tank rinse
<input type="checkbox"/>	Probe
<input type="checkbox"/>	Hopper
<input type="checkbox"/>	Fence-line nozzle
<input type="checkbox"/>	Check and resolve nozzle blockages or leaks
<input type="checkbox"/>	Remove & clean spray filters
<input type="checkbox"/>	
<input type="checkbox"/>	

7. Other checks (as applicable)

<input type="checkbox"/>	Check & calibrate controller operation
<input type="checkbox"/>	Perform speed calibration
<input type="checkbox"/>	Check for hydraulic or spray system leaks
<input type="checkbox"/>	Drain tanks
<input type="checkbox"/>	
<input type="checkbox"/>	

OWNER

- Farmer
 Contractor

Owner's Name (print) _____

Address _____

Postcode

Phone _____

Mobile _____

Email _____

Signature of Owner _____

Date ____ / ____ / ____

DEALER

Dealership Name (print) _____

Address _____

Postcode

Email _____

Signature of Dealer Representative _____

Date ____ / ____ / ____

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WARRANTY POLICY

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, whichever 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 fulfillment 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 fulfill 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, flowmeters, clutches, bearings, 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.

WARRANTY REGISTRATION

Warranty Registration: The Owner acknowledges that the Owner has read & understood all terms & conditions of the Croplands' warranty policy contained in this manual. The warranty policy will commence upon installation. This Warranty Registration **must be completed & signed by both the Owner & the Dealer**, & the white copy returned by the Dealer to Croplands.

Model _____

Size _____

Serial No _____

Purchase Date / /

Pre-Delivery Completion Date / /

OWNER

Owner's Name (print) _____

Address _____

Postcode

Phone _____

Mobile _____

Email _____

Signature of Owner

Date / /

DEALER

Dealership Name (print) _____

Address _____

Postcode

Phone _____

Mobile _____

Email _____

Signature of Dealer Representative

Date / /

IMPORTANT

By executing this Warranty Registration:

1. The Owner:

- (a) Agrees that the Owner will read the Operator's Manual before using the Sprayer; will follow all procedures in the operator's manual for the use of the Sprayer, and will exercise due care in the use of the Sprayer;
- (b) 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;
- (c) Agrees that the Owner will bear any loss the Owner suffers as a consequence of any failure by the Owner to comply with 1(a) above;
- (d) Acknowledges that the owner is trained and is fully responsible for the safe and correct operation of the Sprayer; and
- (e) Agrees that the Owner will fully train any person who might be required to operate the Sprayer as to how to operate the Sprayer in a safe and proper manner.

2. The Dealer undertakes that the Dealership has met the obligations of Sprayer pre-delivery, installation, service and warranty start up.

What other Croplands' machinery do you currently use?

Model & size	Serial No.	Comments

Top Copy (White) - Forward to Croplands; Second Copy (Yellow) - Dealer's Copy; Third Copy (Blue) - Owner's Copy

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Model _____

Size _____

Serial No _____

Purchase Date / /

Pre-Delivery Completion Date / /

OWNER

Owner's Name (print) _____

Address _____

Postcode

Phone _____

Mobile _____

Email _____

Signature of Owner

Date / /

DEALER

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Address _____

Postcode

Phone _____

Mobile _____

Email _____

Signature of Dealer Representative

Date / /

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Size _____

Serial No _____

Purchase Date / /

Pre-Delivery Completion Date / /

OWNER

Owner's Name (print) _____

Address _____

Postcode

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Mobile _____

Email _____

Signature of Owner

Date / /

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Address _____

Postcode

Phone _____

Mobile _____

Email _____

Signature of Dealer Representative

Date / /

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Model & size	Serial No.	Comments

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CROPLANDS

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