RetraSpray
Retractable Reel Sprayers

Operator’s Manual
Congratulations on the purchase of your new Croplands sprayer.

Croplands are in the business of building and selling spraying equipment and have been since 1972 (over 40 years). We supply sprayers to farmers, contractors, growers and others involved in growing crops & controlling pests and diseases.

Use our contact details here to contact our staff during business hours. After hours, e-mail us and expect a reply the following morning.

We trust you will get years of good use from your Croplands Sprayer.

Yours sincerely,
Sean Mulvaney
General Manager

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Important Information

Foreword

About This Manual

This manual provides assembly, setting up, operating and maintenance instructions for the 12 Volt, retractable reel, RetraSpray units. These products are a part of the Croplands Optima range.

The types available are pictured on the front cover and/or in the Identification and Specification Chapter. Some model types may also have different options available. Some features explained in this manual may not be installed on your sprayer.

Please pass on this manual with the sprayer at the time of resale for usage by the new owner.

Before Operating Your Sprayer

Before attempting to use your sprayer, make sure you read the Operator’s Manual and properly understand:

- All Safety Issues.
- Assembly & Installation instructions.
- Calibration of the sprayer.
- Sprayer Operation.
- Sprayer Maintenance.

2 Read and follow instructions on chemical manufacturers’ labels.

3 Always wear applicable protective clothing.

NOTE

For conditions of warranty and warranty policy, please see the Warranty & Pre-Delivery booklet provided with this sprayer.

Terminology

These terms/symbols used throughout this manual:

- NOTE - to convey useful operating information.
- CAUTION - to highlight potential injury or machinery damage.
- WARNING - to stress potential dangers and the importance of personal safety.

NOTE

For conditions of warranty and warranty policy, please see the Warranty & Pre-Delivery booklet provided with this sprayer.

CAUTION

Highlights hazards, unsafe/unwise practices which could cause injury, damage to property, machinery or loss of crop yield if instructions are not followed.

WARNING

Indicates the strong possibility of severe personal injury or damage to machinery if instructions are not followed.
Product Identification & Specifications

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Product Identification

Product Identification

Where applicable, always use the Model and Serial Number of the RetraSpray unit when requesting service information or when ordering parts.

Early models or later models may use different parts, or it may be necessary to use a different procedure for specific service operations.

Sprayer Part & Serial Number

Always use the serial number of the RetraSpray unit/Reel when requesting service information or when ordering parts.

Where a serial plate is not provided, please use the part number from the bar code affixed to this manual or the Warranty & Pre-Delivery booklet.

Pump Model & Serial Number

The Pump Model & Serial Number is located on the pump. This plate shows name of manufacturer, type & model of pump, serial number, maximum working pressure, oil type, etc.

For further information see the pump's manual or Croplands website > Sprayer Components.

NOTE

For further information on Croplands Sprayers, see www.croplands.com.au

NOTE

Please supply the pump model number as a reference when ordering pump spare parts.
Retractable Reel Sprayers

The 12 Volt, retractable reel is the core component to the RetraSpray units. They are available in 2 lengths of hose, 50 & 100 metres, and with or without remote control.

For the RetraSpray 100 & 160 models, the spray guns are supplied as an item to be ordered separately.

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<th></th>
<th></th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Reel</td>
</tr>
<tr>
<td>2</td>
<td>Base</td>
</tr>
<tr>
<td>3</td>
<td>Spray Gun, (shown here is Turbo 400 RG)</td>
</tr>
<tr>
<td>4</td>
<td>12V Motor, 1/5 HP</td>
</tr>
<tr>
<td>5</td>
<td>Connector Block</td>
</tr>
<tr>
<td>6</td>
<td>Control box (includes on/off switch on the rear side)</td>
</tr>
<tr>
<td>7</td>
<td>Liquid connection / swivel</td>
</tr>
<tr>
<td>8</td>
<td>Antenna for the remote control (remote version only)</td>
</tr>
<tr>
<td>9</td>
<td>Hose (2 options, 50 &amp; 100 metres)</td>
</tr>
<tr>
<td>10</td>
<td>Hose bar &amp; guide (remote version only)</td>
</tr>
<tr>
<td>11</td>
<td>Push Button for hose retraction <em>(not shown in this photo)</em></td>
</tr>
</tbody>
</table>

Above: RSRL-100RC plus Turbo 400RG gun (Remote control transmitter not show).
12 Volt Retractable Reels

**RSRL-50**
RetraSpray single reel with 50 metre hose.
Spray gun not included (*ordered separately*).

**RSRL-100**
RetraSpray single reel with 100 metre hose.
Spray gun not included (*ordered separately*).

Remote Control Retractable Reels

**RSRL-100RC**
12 Volt retractable RetraSpray single reel with 100 metre hose and remote control. Very similar to the standard reel but with the addition of the remote control feature (inc hose guide etc).
Spray gun not included (*ordered separately*).

Dimensions & Weights

**RSRL-50/RSRL-100**

<table>
<thead>
<tr>
<th></th>
<th>RSRL-50/RSRL-100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>560mm</td>
</tr>
<tr>
<td>Width</td>
<td>570mm</td>
</tr>
<tr>
<td>Height</td>
<td>600mm</td>
</tr>
<tr>
<td>Weight (without hose)</td>
<td>25kg</td>
</tr>
<tr>
<td>Weight (with 50m hose)</td>
<td>30kg</td>
</tr>
<tr>
<td>Weight (with 100m hose)</td>
<td>34kg</td>
</tr>
</tbody>
</table>

**RSRL-100RC**

<table>
<thead>
<tr>
<th></th>
<th>RSRL-100RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>560mm</td>
</tr>
<tr>
<td>Width</td>
<td>570mm</td>
</tr>
<tr>
<td>Height</td>
<td>600mm</td>
</tr>
<tr>
<td>Weight (without hose)</td>
<td>29kg</td>
</tr>
<tr>
<td>Weight (with 100m hose)</td>
<td>35kg</td>
</tr>
</tbody>
</table>
RetraSpray 100 models

- GX 120 Honda Motor with 3 year Honda warranty
- AR252 twin diaphragm 25 bar, 25 L/Min pump
- Robust, powder coated steel frame
- Pressure controller and pressure gauge
- 12 volt 1/5HP low rev motor powered reel
- Push button hose retraction
- 300 and 500 litre options
- Optional remote control

RS100-300
300 Litre sq tank, steel frame, 25 L/Min pump, Honda GX120 motor, retractable reel with 50 metre hose.

RS100-300-100RC
300 Litre sq tank, steel frame, 25 L/Min pump, Honda GX120 motor, retractable reel with 100 metre hose & remote control.

RS100-500
500 Litre sq tank, steel frame, 25 L/Min pump, Honda GX120 motor, retractable reel with 50 metre hose.

RS100-500-100RC
500 Litre sq tank, steel frame, 25 L/Min pump, Honda GX120 motor, retractable reel with 100 metre hose & remote control.
RetraSpray 160 models

- GX 160 Honda Motor with 3 year Honda warranty
- AR30 twin diaphragm 40 bar, 35 L/Min pump
- Pressure controller and pressure gauge
- 12 volt 1/5HP low rev motor powered reel
- Push button hose retraction
- 300 and 500 litre options in robust steel frame
- Optional remote control
- Choice of gun (add to order).

RS160-300
300 Litre square tank, steel frame, 35 L/Min pump, Honda GX160 motor, retractable reel with 50 metre hose.

RS160-300-100RC
300 Litre square tank, steel frame, 35 L/Min pump, Honda GX160 motor, retractable reel with 100 metre hose. & remote control.

RS160-500
500 Litre sq tank, steel frame, 35 L/Min pump, Honda GX160 motor, retractable reel with 50 metre hose.

RS100-500-100RC
500 Litre sq tank, steel frame, 35 L/Min pump, Honda GX160 motor, retractable reel with 100 metre hose & remote control.

RS100-500-100RC
500 Litre sq tank, steel frame, 35 L/Min pump, Honda GX160 motor, twin retractable reel with 100 metre hose & remote control.
RetraSpray Tray Mount models

- GX 160 Honda Motor with 3 year Honda warranty
- AR30 twin diaphragm 40 bar, 35 L/Min pump
- Strong galvanised steel frame
- Pressure controller and pressure gauge
- 12 volt 1/5HP low rev motor powered reel
- 100 metre hose is standard
- Push button hose retraction
- 500 litre
- Remote control is standard
- Turbo 400 gun is standard.

RS500-30-100RC

500 Litre tank, galvanised steel frame, 35 L/Min pump, Honda GX160 motor, retractable reel with 100 metre hose. & remote control.
**Power Lead**

**UP-459**
5 metre power lead with 8mm eyelets for the vehicle battery, 35 Amp fuse and a waterproof quick connection plug 1m from the reel connection end. This power lead may or may not be supplied as standard equipment. Also available as a spare part.

**Remote Control Reel Option**

**RS-RC**
Remote Control Retractable Reel Kit (includes hose bar and hose guide) – a retro-fit kit with 360° remote range, 915 MHz frequency control with dip switch coding. If using multiple reels they can be individually coded. A standard option on the 100m reel (not sold as an option for the 50m reel).

**Spray Guns & Lances**

For all spray gun options, see the Croplands Optima Guide.

**B26.901.165MK2 (Turbo 400)**
Turbo 400 with metal grip and protected lever, 50 bar (725 psi). Best suits 160 & US models.

**RL10**
RL10 gun with 500mm steel lance & adjustable nozzle. Best suits 100 model.
# Product Dimensions

## RetraSpray 100

<table>
<thead>
<tr>
<th>Tank Size</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight (without hose)</th>
<th>Weight (with 50m hose)</th>
<th>Weight (with 100m hose)</th>
<th>Horsepower</th>
<th>Flow (Max)</th>
<th>Pressure (Max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 litre</td>
<td>900mm</td>
<td>1190mm</td>
<td>1070mm</td>
<td>115kg</td>
<td>120kg</td>
<td>124kg</td>
<td>3 hp</td>
<td>25 Lpm</td>
<td>360 psi</td>
</tr>
<tr>
<td>500 litre</td>
<td>900mm</td>
<td>1190mm</td>
<td>1070mm</td>
<td>121kg</td>
<td>126kg</td>
<td>130kg</td>
<td>3 hp</td>
<td>25 Lpm</td>
<td>360 psi</td>
</tr>
</tbody>
</table>

**Note:** Add an extra 25kg for Twin Reel versions

## RetraSpray 160

<table>
<thead>
<tr>
<th>Tank Size</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight (without hose)</th>
<th>Weight (with 50m hose)</th>
<th>Weight (with 100m hose)</th>
<th>Horsepower</th>
<th>Flow (Max)</th>
<th>Pressure (Max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 litre</td>
<td>900mm</td>
<td>1190mm</td>
<td>1070mm</td>
<td>125kg</td>
<td>130kg</td>
<td>134kg</td>
<td>5.5 hp</td>
<td>35 Lpm</td>
<td>580 psi</td>
</tr>
<tr>
<td>500 litre</td>
<td>900mm</td>
<td>1190mm</td>
<td>1070mm</td>
<td>131kg</td>
<td>136kg</td>
<td>140kg</td>
<td>5.5 hp</td>
<td>35 Lpm</td>
<td>580 psi</td>
</tr>
</tbody>
</table>

## Tray Mount, US500

<table>
<thead>
<tr>
<th>Tank Size</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight (with 100m hose)</th>
<th>Horsepower</th>
<th>Flow (Max)</th>
<th>Pressure (Max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 litre</td>
<td>1660mm</td>
<td>1200mm</td>
<td>1040mm</td>
<td>155kg</td>
<td>5.5 hp</td>
<td>35 Lpm</td>
<td>580 psi</td>
</tr>
</tbody>
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Fitting RetraSpray Tray Mount 19
Unpack the Sprayer

When unpacking your new RetraSpray unit, check thoroughly for any transport damage, and that all parts, accessories and extras are included.

1. Instruction Manuals.
2. Accessories as ordered (spray gun etc).
3. Aerial (if applicable).
4. Transmitter (if applicable).

Check the Filter & Hoses

Check and clean (if necessary) the suction filter.
Check all hose connections for tightness.
Check motor and pump connections (consult the relevant manuals for these items).
Check the drain plug is installed (US model).
Check tank straps are tight (US model).
Connect the spray gun.

Tip for RetraSpray 120 & 160

These models do not have a drain plug fitted to the tank. Draining the tank can only be accomplished via the spray gun operation.

A faster method of draining can be produced by fitting a 3 way ball valve (plus another (dump) hose) in the bypass line of the pump.

**NOTE:** This must be a “continuous flow” ball valve.

The operator can choose to either run the system as normal, bypassing the tank whilst spraying or by turning the valve can change the bypass to the dump hose and run until the tank is empty.

This will remove almost the entire chemical from the tank. There may be about 5 or 10 mm of fluid left in the tank sump which can be further diluted with water and pumped out.

**NOTE:** The tray mount sprayers have a drain valve in the bottom of the tank hence do not requires this feature.

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**NOTE**

Whilst all precautions are taken in assembly and testing, it is possible that some tank filings remain in the lines. These will accumulate in the suction filter when first used. Therefore, clean the filter out after initial use.

**WARNING**

Ensure your vehicle is rated for the weight of the sprayer when full of liquid. Failure to do this may cause instability and injury.
Chapter 2

Assembly & Installation

Hard wire to the reel’s connector box.

12 Volt Power Connection

Connect the unit to a 12 volt power source – normally the 12 volt battery of the vehicle carrying the unit. For best results use a fully charged heavy duty battery, 70 AH or larger.

The RetraSpray power loom, part number UP-459, if not supplied as standard, is available as a separate component.

The UP-459 power lead comes with a 35 Amp fuse, do not replace with a heavier duty fuse.

It is recommended that you consult an auto-electrician to assist wiring up your RetraSpray unit.

Fitting the Aerial

**CAUTION** (If applicable); Fit aerial to mounting base – tightening only finger tight and then just a nip more. See photos on pages 9 & 10 for position.

If the aerial is over tightened a break in the coaxial cable may result the remote control range diminishing to only 20 metres.

Programming the remote

(Where applicable), the remote is delivered pre-tuned from the factory. At some point it may be necessary to re-tune the system or select a new operating frequency.

Both the remote unit (transmitter) and control box (receiver) have a bank of dip switches. These switches can be moved to either the up or down position.

Make sure that both the radio receiver dip-switch code and the radio transmitter dip-switch code exactly match.

**CAUTION:** Always keep No 1 in the ON position.

When changing the 9 Volt battery in your radio transmitter make sure not to bump any of the dip-switch codes. This would render your remote control feature unusable until the dip-switch code was put back into its original position.

---

CAUTION

The leads must be connected to a 12 Volt battery. Failure to connect leads to a battery of the correct voltage will cause damage to the electric motor.
If two or more 915 MHz systems are in use in the near vicinity make sure that the dip-switch codes from one system to the other are different.

If they are too close in dip-switch combination radio interference or cancellation can occur from one unit to another.

**Notes**

A low power or voltage battery remote will cause weak or intermittent operation of the units motor.

This can cause damage to the radio relay.

Always insure that the 9 volt battery in the transmitter is replaced every 3 months and that the 12 volt power supply is charged on a regular basis and putting out optimal voltage.

The working range of RetraSpray® Radio Transmitters is affected by the many factors that typically affect all 915 MHz Transmissions. These include operating in the vicinity of high tension power lines, buildings and other obstructions, other radio transmitters, and certain other atmospheric conditions.

A range of 100 meters or more can be achieved under ideal conditions.

**Fitting a RetraSpray Reel**

Securely mount the RetraSpray reels in a vertical orientation by bolting through all mounting lugs located on the base frame of the unit, using M10 high tensile bolts.

Ensure a minimum of 50 mm clearance from all sides to prevent damage.

Mount in a position which enables clear access to controls and free run of the hose.
Fitting a RetraSpray 100 & 160
Securely mount the RetraSpray 100 or RetraSpray 160 by bolting through all mounting lugs holes located on the base frame of the unit, using a minimum of 4 @ M10 high tensile bolts.

Fitting a RetraSpray Tray Mount
Re the US500, if there are no holes in the base frame, they will need to be drilled before mounting can be accomplished (as per the RetraSpray 100 & 160 units).

Never operate without the unit being properly secured.

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**WARNING**

*When using a sprayer on a vehicle, always adhere to the vehicle manufacturer’s load carrying specifications. Failure to do this could result in serious damage and injury.*
RetraSpray Calibration

Step 1  Choose a Gun to Suit your Pump Size & Model

Step 2  Choose the Appropriate Nozzle

Step 3  Check the Nozzle Operates Correctly
Retraspray Calibration

Retraspray reels are most commonly used for spot spraying using a hand gun with a single cone nozzle.

Precise application rates are not usually achieved with hand guns because the application rate is entirely dependent on the operator.

Three steps are recommended for calibrating a spot sprayer:

1. Choose a gun to suit your pump size & model.
2. Choose the appropriate nozzle to suit the handgun you are using, and the application required.
3. Check the nozzle operates correctly.

Step 1.

Choose a Gun to Suit your Pump Size & Model.

The following spray guns are available for purchase from Croplands:

- Turbo400 gun
- Spot gun 300
- RL10
- AA30L-1/4

CAUTION

Do not operate a sprayer without calibration or before calibration has been completed. Failure to calibrate a sprayer before operating may result in ineffective or crop damaging spray application.
Step 2

Choose the Appropriate Nozzle

The nozzle used should be appropriate for the application. The standard nozzle supplied with a handgun such as the Turbo400 or RL10 (see below more information) should suffice for most applications such as smaller gorse, broom and other Woody weeds, around buildings or fence lines and spot spraying of thistles or other problem weeds in pasture.

A larger nozzle may be required for larger woody weeds – contact Croplands or your Croplands dealer to discuss other nozzle options.

Follow the chemical manufacturer’s recommendation for any specific nozzle or application rate requirements as per the manufacturer’s label.

Pump Specification

The nozzle chosen must be within the flow capability of the pump on your Retraspray unit.

If you purchase either an RS100 model, RS160 model, or the US500/30/100RC skid mount model, we recommend using a gun the same as, or similar to those described in the table above.

If you purchase a Retraspray reel only, ensure your existing pump has at least the flow and pressure to match those of the Croplands options in the table (above).

Step 3

Check the Nozzle Operates Correctly

1. Fill the sprayer tank with clean water making sure the lid filter is in place.
2. Connect the reel power leads to a 12 volt battery (see battery connection instructions in chapter 2).

<table>
<thead>
<tr>
<th>Model</th>
<th>Pump Fitted</th>
<th>Pump Specifications</th>
<th>Recommended Pump Pressure</th>
<th>Recommended Gun Options</th>
<th>Standard Nozzle &amp; Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS100 models</td>
<td>AR252</td>
<td>25 L/min*, 25 bar**</td>
<td>10 - 20 bar</td>
<td>RL10, AA30L-1/4</td>
<td></td>
</tr>
<tr>
<td>RS160 models</td>
<td>AR30</td>
<td>32 L/min*, 40 bar**</td>
<td>20 - 30 bar</td>
<td>Turbo400 or Spot 300 gun</td>
<td></td>
</tr>
<tr>
<td>US500/30/100RC</td>
<td>AR30</td>
<td>32 L/min*, 40 bar**</td>
<td>20 - 30 bar</td>
<td>Turbo400 or Spot 300 gun</td>
<td></td>
</tr>
</tbody>
</table>

Pump specifications and recommended spray gun options.

CAUTION

Always only use clean water when calibrating or checking a sprayer. Never calibrate with and toxic chemical present in the tank. Failure to follow this instruction can lead to poisoning and serious illness.
3  Start your pump and engage the pressure lever on your pump control unit (PRV).

4  Hold down the hand grip on your gun to spray and check:
   •  The nozzle is working for the type of spray pattern you require
   •  The pump pressure is sufficient to achieve the spray application - adjust your control unit as required
   •  If your gun has a variable-type cone jet (most do), adjust the cone to make the spray pattern required. The Turbo400 gun has a lever on the side for that purpose; the RL10 has an adjustment option on the nozzle itself.

5  Release the hand grip lever to stop spraying.

6  Turn off your pump or release the bypass lever on the pump control unit

7  If necessary, make any adjustments and recheck. When the nozzle operates correctly, the sprayer is ready for operation.

NOTE

Nozzle spray patterns and spray angles should be visually checked for accuracy and the nozzle replaced if not spraying correctly.

NOTE

Check the current Croplands Optima Buyers Guide for Nozzle information.
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<th>Page</th>
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<tr>
<td>Safety with Chemicals</td>
<td>35</td>
</tr>
</tbody>
</table>
Basic Operations

Pre-Operation Check

1. Spray Gun connected.
3. Oil Level in Motor, refer to Engine Manual.
4. Oil Level in Pump, refer to Pump Manual.
5. Oil level in Gearbox, refer to Pump Manual.
7. All Nuts, Bolts and Screws are tight.
8. Unit is in an open area. Exhaust Gas is poisonous!
9. All maintenance has been completed.
10. Safety Guards and Shields are in place.
11. Operator Safety Gear is at hand.

CAUTION

Children and pets must be kept away from the area of operation.

CAUTION

Know how to stop the engine quickly.

CAUTION

Make sure fuel cap is closed securely.
SAFETY FIRST

IMPORTANT: Heed all these WARNINGS as failure to do so may result in serious and/or permanent bodily harm.

1. DO NOT let any person near the unit while it is operating.
2. DO NOT start the unit until you have read this manual carefully.
3. DO NOT start motor with the pressure lever in the “press” position.
4. DO NOT pull the hose out too fast as the reel may “run on”, causing the hose to become tangled.
5. DO NOT alter the equipment in any manner. If repairs are necessary, use only genuine factory repair parts.
6. DO NOT leave the unit running unattended at any time.
7. DO NOT operate the unit if there are any leaks from hoses, fittings, etc. Fluids under high pressure can penetrate the skin.
8. DO NOT operate near powerlines, as contact could result in electrocution.
9. DO NOT refuel the engine until it has been stopped and cooled. If any fuel has been spilled, make sure that the area is cleaned & dry before starting the engine.

WARNING

Heed all SAFETY WARNINGS as failure to do so may result in serious and/or permanent bodily harm.

CAUTION

Do not add chemical to the tank until you have checked the unit is fully operational.
Operations - Reels

Standard RetraSpray Reel

Ensure all set-up instructions are complete.

When you are ready to operate the reel connect the unit to the 12 Volt power source.

The reel will free-wheel out to the desired distance.

**CAUTION:** Do not pull hose out too fast, as the reel may “run on”, causing the hose to become entangled.

When you are ready to retract the hose, press the push button on the unit. Keep tension on the hose when rewinding to enable the hose to slip into the low spot on the reel drum.

Remote Control RetraSpray Reel

Ensure all set-up instructions are complete.

When you are ready to operate the reel connect the unit to the 12 Volt power source. Ensure to carry the transmitter with the operator.

The reel will free-wheel out to the desired distance.

**CAUTION:** Do not pull hose out too fast, as the reel may “run on”, causing the hose to become entangled.
When you are ready, press and hold the transmitter button to retract the hose back to the unit. Always ensure the hose is in front of the operator.

To operate the transmitter for retraction, the operator must be at least 2-3 meters away from the unit.

Use the manual button on the radio receiver box to retract any slack hose within 2 meters of the unit.

**WARNING:** Be ready to release the radio transmitter button when approaching the reel, as injury may result.

**CAUTION:** This unit has been designed to operate in a continuous start/stop mode without damage to the unit. Keep light tension on the hose when rewinding to enable the hose to slip into the low spot on the reel drum.

**Hints**

If the hose becomes entangled or caught, release the retraction button immediately or damage to the motor could result.

Keep the unit under cover when not in use.
Adding Chemical to the Spray Tank

Chemical should only be added to the spray tank after initial start up procedure is complete.

The steps for adding chemical to the tank are:

1. Calculate the amount of chemical required by reading the product label.
2. Part fill the spray tank with water.
3. Measure and pre-mix the chemical.
4. Add the pre-mixed chemical to the tank.

Step 1: Calculate the Amount of Chemical Required

To add the correct amount of chemical to a tank, it is necessary to calculate the amount of chemical required.

The method of calculating the amount of chemical required for the sprayer tank is dependent on the chemical rate recommendations. Use the information supplied on the chemical label to determine the tank mix concentration.

If you are unsure of the mix required, ALWAYS check with a qualified advisor or the supplier of the chemical you intend to use.

Step 2: Part Fill the Spray Tank with Water

Part fill the sprayer tank with clean water. Use fresh water (preferably rainwater), free of suspended organic matter or clay. Some chemicals are deactivated when they contact these materials.

Ensure water quantity is sufficient to allow correct product blending.
Step 3
Measure & Pre-Mix the Chemical

Read and follow the instructions on the chemical manufacturers label before mixing & adding chemicals to the spray tank.

Chemicals should be accurately measured and thoroughly premixed in a separate container before adding to the spray tank:

1. Measure out the required liquid chemical in a graduated measuring cylinder or bucket.
2. Add chemical to a small volume of water in a container and thoroughly mix the chemical.
3. If you are using an adjuvant, spreading agent or wetter/sticker, ensure you read the label carefully to ensure it is mixed at the correct rate and added to the tankmix in the correct order.

Tank Agitation

The pump bypass provides agitation of the tank mix. We recommend that you use a reputable brand of product with clear label instructions – most reputable chemical manufacturers produce products that will remain in suspension with minimal agitation.

Fertiliser mixes can be more difficult to mix and keep in suspension so we recommend ensuring they are thoroughly mixed before commencing spraying.

If the tankmix is left to stand for a period of time, ensure you leave the pump running with the bypass engaged for 15 minutes or so before spraying.

CAUTION

Do not add chemicals to the spray tank until the initial start-up or daily start-up procedure has been carried out. This avoids having a tank full of toxic chemical and then finding a sprayer problem.

NOTE

Be sure to mix only enough spray mixture to cover the area required. Mixing too much chemical creates unnecessary waste and costs.
Step 4
Add the Chemical to the Tank

Always make sure the filling basket is in place when adding water or chemical to the tank.

To add the premixed chemical to the tank:

1. Add the pre-mixed chemical to the tank, thoroughly rinsing the chemical pre-mix container and adding the rinse to the tank.
2. Top up the tank with water to the required volume.
3. Close the tank lid securely.

Step 5
Operating the Hand Gun

After chemical has been added to the tank, the sprayer is ready for operation.

To operate the hand gun:

1. Have your pump running and engage the pressure control lever on your pump control unit to provide your preset pressure to the gun
2. Squeeze the lever on the gun - ensure your spraygun is aimed at the target, and adjust the pattern as needed.
3. Move the nozzle as required to completely spray the target. Use the hand gun trigger to turn the spray On & Off as required.
4. When spraying is finished, switch off the pump.
5. Ensure you thoroughly clean out the sprayer by flushing fresh water and/or tank cleaner through the unit so it is ready for your next use.

Correct flushing will extend the life of your sprayer by up to 3 times.

⚠️ CAUTION

Always follow chemical label instructions.

⚠️ CAUTION

Should chemical come in contact with skin immediately rinse off with water. Always follow chemical label safety instructions.

⚠️ CAUTION

Always wear approved safety clothing and protective respiratory equipment when spraying.
Hand Gun Spraying Method

It is always preferable to spray with your back toward the wind direction so that the wind carries spray away from the operator.

The operator should where possible, avoid walking on previously sprayed areas to avoid unnecessary fumes and contamination.

Operate with the sprayer situated behind the operator so that the hose from the sprayer can be kept on unsprayed areas.

This is important because the operator usually has to handle, extend and rewind the hose many times, as he shifts from area to area.

If the hose is kept relatively free from spray contamination there is less exposure to chemical contamination.

NOTE

It is recommended to keep the hose from the sprayer on unsprayed ground & uncontaminated from the spray. This minimises contaminants on the hose minimises exposure to chemicals when handling and rewinding the hose.
Using 100, 160 & Skid Series

Ensure pre-operation checks are complete.

Fill tank to desired level.

CAUTION: Never fill tank with the lid closed.

Ensure the pump is in the “By-pass” / levers up position before starting the engine.

CAUTION: Never start with the pump in pressure as this cause stress to the internal components of the pump.

Consult the engine’s operator manual for starting and operating the engine.

Initially run engine for at least 30 seconds until all air has been removed from the plumbing lines to prime the pump.

With the pump primed, depress (or turn) the pressure controller lever to the levers down / “pumping” position.

Adjust working pressure as required.

Open the 2 way ball valve to reel/s.

To Stop

To stop the pump:

1. Reset the pressure controller lever into the “By-Pass” position.
2. Close ball valve to reel(s)
3. Adjust the working pressure knob back down to zero.
4. Turn fuel valve to the “off” position (consult engine operators manual for more information).

Never fill the tank with the lid closed.

Never start with the pump in pressure as this cause stress to the internal components of the pump.
Safe Sprayer Operation

- Always read your sprayer operator’s manual thoroughly before operating.
- Dispose of all chemical containers as per instructions on label. Failure to do so could result in contaminating the environment with chemicals.
- 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 toxic chemicals which could result in serious illness or faulty sprayer operation.
- Follow the chemical manufacturer’s precautions before cleaning the sprayer. Exposure to chemicals could result in serious illness or death.
- Always use the proper application rate. To assure proper application rate calibrate sprayer frequently. The wrong application rate of a pesticide which is too high may expose the operator and the environment to danger.
- Always wear gloves and wash the sprayer before doing any disassembly repair work. Chemical residues on the sprayer parts could contaminate operator or service personnel causing serious illness.
- Always relieve system pressure before doing any work on the machine. Disconnecting components while under pressure will result in uncontrolled spray discharge which may be hazardous to humans. Failure to do so could cause operator to be exposed to high pressure spray of chemical resulting in serious injury or machine damage.
- Check the entire sprayer, prior to each use, for any loose connections.
- Use only genuine Croplands parts for any necessary replacement. Homemade parts may look the same but might be dangerous in operation.
- Do not disconnect any hoses nozzles or filters while sprayer is operating.
- Always clean the sprayer before doing any repairs.

WARNING

Accidents occur every year due to careless use of farm machinery and farm chemicals. You can avoid these hazards by reading and following the instructions in this operator’s manual and observing operating safety.
**Maintenance**

### Daily

Check the battery condition, water level and voltage (12 volt). Make sure all safety guards and decals are in place.

Inspect all nuts and bolts for missing or loose items and check all hoses and hose fittings for damage or leaks. Insure the aerial (if fitted) is a little more that finger tight to the base and in good condition.

### Batteries

A low power or voltage battery will cause weak or intermittent operation of the units motor. This can cause damage to the radio relay.

Always insure that the 9 volt battery in the transmitter is replaced every 3 months and that the 12 volt power supply is charged on a regular basis and putting out optimal Voltage.

### 20 Hourly

Remove the belt drive guard and check the belt tension.

Grease the reel swivel if needed. Do not over grease as damage will occur to the swivel.

### 200 Hourly

Replace the 9 volt transmitter battery.

Grease all bearings if needed and do not over grease.

The motor brushes must be checked by an auto electrician.

### Winter

For winter storage, if freezing conditions are expected, empty pump completely and flush with a mixture of water and antifreeze to prevent unrepairable damage to your unit.
## Trouble Shooting

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>PROBABLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
</table>
| **Reel does not retract and manual button does not work.** | • On/off switch not “on” or faulty.  
• Discharged 12 volt battery.  
• Loose Connection on 12 volt battery.  
• Blown fuse. | • Switch on or replace.  
• Re-charge battery.  
• Fix loose connection.  
• Replace fuse. |
| **(If Remote control Retractable) Reel does not retract and manual button works.** | • Discharged 9 volt transmitter battery.  
• Faulty radio receiver board, pre regulator board, or transmitter.  
• Dip-switch not synchronised. | • Replace 9 volt battery.  
• Return radio receiver to factory with transmitter for testing and repair (CALL FIRST FOR PROCEDURE).  
• Re-match dips-witch codes. |
| **(If Remote control Retractable) Reel only retracts at close distance.** | • Discharged 9 volt transmitter battery.  
• Aerial broken or loose on base.  
• Coax cable broken inside the aerial base.  
• Discharged 12 volt battery.  
• Faulty receiver board or transmitter.  
• Aerial braid not connected to negative supply. | • Replace 9 volt battery.  
• Tighten or replace.  
• Repair or replace coax cable and aerial base.  
• Recharge or replace.  
• Return radio receiver to factory with transmitter for testing and repair (CALL FIRST FOR PROCEDURE).  
• Reconnect. |
| **Pump does not deliver pressure (If good flow is being achieved from by-pass back to the tank)** | • Pressure Controller regulator not set for pressure.  
• Damaged or worn seat or spring in pressure regulator.  
• Sticking pressure regulator slide.  
• Spray nozzle worn, missing or exceeding pump capacity. | • Set lever to “Press” and adjust the knob.  
• Replace with Pressure Controller repair kit or new spring.  
• Remove slide and lubricate with marine grease.  
• Replace spray nozzle with correct size. |
## Maintenance & Trouble Shooting

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>PROBABLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump does not deliver pressure</td>
<td>• One or more of the pump valves not seated correctly.</td>
<td>• Clean or replace valves.</td>
</tr>
<tr>
<td>(If irregular flow is being achieved from by-pass back to the tank)</td>
<td>• Sucking air through the suction line, suction fittings or filter.</td>
<td>• Examine &amp; repair.</td>
</tr>
<tr>
<td></td>
<td>• Air has not been entirely evacuated from the pump.</td>
<td>• Run pump in the “By-pass” mode until all air is evacuated.</td>
</tr>
<tr>
<td></td>
<td>• Blocked suction filter or ball valve closed.</td>
<td>• Clean filter or open ball valve.</td>
</tr>
<tr>
<td></td>
<td>• Ruptured Spray Hoses or Fittings.</td>
<td>• Repair or replace.</td>
</tr>
<tr>
<td>Pump delivers insufficient pressure</td>
<td>• One or more of the pump valves not seated correctly.</td>
<td>• Clean or replace valves.</td>
</tr>
<tr>
<td>(If hoses are jumping)</td>
<td>• Sucking air through the suction line, suction fittings or filter.</td>
<td>• Examine &amp; repair.</td>
</tr>
<tr>
<td></td>
<td>• Air has not been entirely evacuated from the pump.</td>
<td>• Run pump in the “By-pass” mode until all air is evacuated.</td>
</tr>
<tr>
<td></td>
<td>• Diaphragm split (Oil will be milky in colour).</td>
<td>• STOP PUMP, replace all diaphragms.</td>
</tr>
<tr>
<td></td>
<td>• Oil level is low.</td>
<td>• Top up with AE30 or 10W30.</td>
</tr>
<tr>
<td>Pump delivers insufficient pressure</td>
<td>• Damaged or worn seat or spring in pressure regulator.</td>
<td>• Replace with Pressure Controller repair kit or new spring.</td>
</tr>
<tr>
<td>(If hoses are not jumping)</td>
<td>• Sticking pressure regulator slide.</td>
<td>• Remove slide and lubricate with marine grease.</td>
</tr>
<tr>
<td></td>
<td>• Spray nozzle worn, missing or exceeding pump capacity.</td>
<td>• Replace spray nozzle with correct size.</td>
</tr>
<tr>
<td></td>
<td>• Leaking hoses or fittings.</td>
<td>• Repair or replace.</td>
</tr>
<tr>
<td>Pump is noisy</td>
<td>• Oil level is low.</td>
<td>• Top up with AE30 or 10W30.</td>
</tr>
<tr>
<td></td>
<td>• Sucking air or air in the pump.</td>
<td>• Examine or repair.</td>
</tr>
<tr>
<td></td>
<td>• Blocked Filter.</td>
<td>• Clean Filter.</td>
</tr>
<tr>
<td>Oil is changing colour to white or oil in the spray hose</td>
<td>• One or more diaphragms are split.</td>
<td>• STOP PUMP, replace all diaphragms.</td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
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<td>Reels</td>
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<td>RetraSpray 100 &amp; 160 Models</td>
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<td>Honda motors &amp; AR Pumps</td>
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<td>Notes</td>
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</table>
Reels

For further parts information refer www.croplands.com.au or Customer Support on 1800 999 162
<table>
<thead>
<tr>
<th>No</th>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>QS-4900000</td>
<td>Swivel</td>
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<tr>
<td>2</td>
<td>QS-3394700</td>
<td>Motor S4 Gearbox 12V/ 450RPM,</td>
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<tr>
<td>3</td>
<td>QS-2980000</td>
<td>Coupler, hose to reel 3/8&quot; (not shown)</td>
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<tr>
<td>4</td>
<td>QS-325000</td>
<td>Nylon hose stopper (not shown)</td>
</tr>
<tr>
<td>5</td>
<td>QS-1125200</td>
<td>Bearing 1 H/Reel - UC205-16 (not shown)</td>
</tr>
<tr>
<td>6</td>
<td>RS2260000</td>
<td>Junction Box, Clipsal 559/2 12V,</td>
</tr>
<tr>
<td>7</td>
<td>RS4741200</td>
<td>Reel Side Pully (fibreglass),</td>
</tr>
<tr>
<td>8</td>
<td>RS4890000</td>
<td>Push Button Switch,</td>
</tr>
<tr>
<td>9</td>
<td>RS-HOSE</td>
<td>50m Hose 3/8 inch,</td>
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<tr>
<td></td>
<td>RS-HOSE-100</td>
<td>100m Hose 3/8 inch,</td>
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<tr>
<td>10</td>
<td>QS-3256700</td>
<td>Hose Guide &amp; Rollers (complete)</td>
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<tr>
<td>11</td>
<td>RS4741079</td>
<td>Roller (only)</td>
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<tr>
<td>12</td>
<td>QS1031700</td>
<td>Aerial, part</td>
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<tr>
<td>13</td>
<td>RS4476950</td>
<td>Control Box kit, inc remote,</td>
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<tr>
<td>14</td>
<td>QS-4441200</td>
<td>Remote</td>
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</table>
### RetraSpray 100 & 160 Models

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Item Description</th>
<th>Additional Information</th>
<th>300 Lt</th>
<th>500 Lt</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 4741400</td>
<td>SM/RS Tank Frame Bottom</td>
<td>Tank Frame Bottom (1185mm x 870mm)</td>
<td>1</td>
<td>1</td>
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<tr>
<td>RS 4741450</td>
<td>SM/RS Tank Frame Top</td>
<td>Tank Frame Top (1185mm x 880mm)</td>
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<tr>
<td>RS 4741500</td>
<td>SM/RS Tank Clamp Bracket Long</td>
<td>Tank Clamp Angle</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>RS 4741550</td>
<td>SM/RS Tank Clamp Bracket Short</td>
<td></td>
<td>2</td>
<td>2</td>
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<tr>
<td>RS 4592000</td>
<td>Rod Threaded Zinc M10 x 3000</td>
<td>Tank Rod</td>
<td>1.3m</td>
<td>2.1m</td>
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<tr>
<td>RS 7082000</td>
<td>Tube 16mm x 1.6 Aluminium</td>
<td>Tank Rod Tube</td>
<td>1.2m</td>
<td>2m</td>
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<tr>
<td>RS 4931000</td>
<td>Tank PTO500 Lid Ring Kit</td>
<td>Tank Lid Ring</td>
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<tr>
<td>RS 4931500</td>
<td>Tank PTO500 Strainer Filter</td>
<td>Tank Strainer Basket</td>
<td>1</td>
<td>1</td>
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<tr>
<td>RS 4741090</td>
<td>SM/RS Motor / Pump Base Plate</td>
<td>Motor / Pump Base Plate (Folded 151 x 325mm)</td>
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<td>1 (RS160)</td>
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<tr>
<td>RS 3685000</td>
<td>Pump AR30 Gearbox &amp; Cont 30622</td>
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<td>1 (RS160)</td>
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<tr>
<td>RS 3435000</td>
<td>Motor Honda GX160UT1 QXU</td>
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<tr>
<td>RS 2618000</td>
<td>Controller G140 900/977</td>
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<td>1 (RS160)</td>
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<tr>
<td>RS 3684000</td>
<td>Pump AR252 W/Gearbox &amp; Cont</td>
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<td>1 (RS120)</td>
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<tr>
<td>RS 3406000</td>
<td>Motor Honda GX120 QXU</td>
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<tr>
<td>RS 2619000</td>
<td>Controller GR30 #879</td>
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<td>1 (RS120)</td>
<td>1 (RS120)</td>
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<tr>
<td>RS 4918310</td>
<td>Tank Poly 300 white Croplands</td>
<td>300 Litre Poly Tank - (1190mm x 900mm x 390mm)</td>
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<td>n/a</td>
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<tr>
<td>RS 4918710</td>
<td>Tank Poly 500 white Croplands</td>
<td>500 Litre Poly Tank - (1190mm x 900mm x 590mm)</td>
<td>n/a</td>
<td>1</td>
</tr>
</tbody>
</table>

**NOTE**

For further parts information refer www.croplands.com.au or Customer Support on 1800 999 162

This bill of materials is not a complete list of components. For further information see the web site or contact customer support.
# RetraSpray Tray Mount Models

<table>
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<tr>
<th>Part Number</th>
<th>Item Description</th>
<th>Additional Information</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>GX200QX</td>
<td>MOTOR</td>
<td>Motor 5.5hp Honda</td>
<td>1</td>
</tr>
<tr>
<td>RSRL-100RC</td>
<td>HOSE REEL</td>
<td>RetraSpray Reel, 100m with remote</td>
<td>1</td>
</tr>
<tr>
<td>AR30-CRGI</td>
<td>PUMP</td>
<td>Pump AR30 Gearbox &amp; Cont 30622</td>
<td>1</td>
</tr>
<tr>
<td>B26.901.165MK2</td>
<td>GUN</td>
<td>Gun Turbo 400 metal grip &amp; lever</td>
<td>1</td>
</tr>
<tr>
<td>BP-221BA</td>
<td>CHASSIS</td>
<td>Colt skid chassis 550L</td>
<td>1</td>
</tr>
<tr>
<td>AR30BRKT</td>
<td>STAND</td>
<td>AR30 Motorised pump stand</td>
<td>1</td>
</tr>
<tr>
<td>P600-RAW</td>
<td>RAWTANK</td>
<td>Tank 550L Poly Raw, w/out fittings</td>
<td>1</td>
</tr>
<tr>
<td>XSTRAP1800</td>
<td>STRAP</td>
<td>Tank Strap 1800mm</td>
<td>2</td>
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<tr>
<td>A454234</td>
<td>BALLVALV</td>
<td>Ball Valve, Poly 1&quot; 3 Way</td>
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<tr>
<td>A300120</td>
<td>FILTER</td>
<td>Filter basket medium 254mm deep</td>
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</tr>
<tr>
<td>A3244043</td>
<td>FILTER</td>
<td>Filter 1&quot; 50 mesh female thread</td>
<td>1</td>
</tr>
<tr>
<td>A220040</td>
<td>OUTLET</td>
<td>Tank outlet 1&quot;</td>
<td>1</td>
</tr>
<tr>
<td>A3510040</td>
<td>LIDRING</td>
<td>Lid / Ring kit 355mm</td>
<td>1</td>
</tr>
<tr>
<td>A118215</td>
<td>PIPE</td>
<td>Pipe 1/2 x 1/2 single piece 90</td>
<td>2</td>
</tr>
<tr>
<td>B163.604.13</td>
<td>ELBOW</td>
<td>Elbow, 1/2&quot; c/w Hex nut 1/2&quot;</td>
<td>1</td>
</tr>
<tr>
<td>BJHB100-90</td>
<td>ELBOW</td>
<td>Elbow 1&quot; NPT x 1&quot; barb</td>
<td>3</td>
</tr>
<tr>
<td>TFEL14MF45DEG</td>
<td>ELBOW</td>
<td>Elbow 1/4&quot; M/FM 45 degree</td>
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<tr>
<td>TFA3812</td>
<td>TAIL</td>
<td>Tail, brass 3/8&quot;BSPM x 1/2&quot; tail</td>
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</tr>
<tr>
<td>A205040</td>
<td>BACKNUT</td>
<td>Back nut 1&quot;</td>
<td>1</td>
</tr>
<tr>
<td>AG40002</td>
<td>FLATSEAL</td>
<td>Flat Seal 1/2&quot; EPDM</td>
<td>2</td>
</tr>
<tr>
<td>AG40004</td>
<td>FLATSEAL</td>
<td>Flat Seal 1&quot; EPDM</td>
<td>1</td>
</tr>
<tr>
<td>TR1HC</td>
<td>CLAMP</td>
<td>Hose clamp 25mm, 1&quot; worm drive</td>
<td>4</td>
</tr>
<tr>
<td>TR34HC</td>
<td>CLAMP</td>
<td>Hose clamp 20mm, 3/4&quot; worm drive</td>
<td>6</td>
</tr>
<tr>
<td>XC-101</td>
<td>CLAMP</td>
<td>Clamp Bandit JS202</td>
<td>2</td>
</tr>
<tr>
<td>HPW25</td>
<td>HOSE</td>
<td>Hose, 25mm 250 psi</td>
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<tr>
<td>HPW12/40</td>
<td>HOSE</td>
<td>Hose 12mm, 40 bar</td>
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<tr>
<td>GP-OMRET-A</td>
<td>MANUAL</td>
<td>Operators Manual</td>
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**NOTE**

For further parts information refer [www.croplands.com.au](http://www.croplands.com.au) or Customer Support on 1800 999 162

This bill of materials is not a complete list of components. For further information see the web site or contact customer support.
Honda Motors & AR Pumps

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>AR252-CRGI</td>
<td>Pump, AR252 w/gearbox &amp; Cont</td>
</tr>
<tr>
<td>AR30-CG1</td>
<td>Pump AR30 Gearbox &amp; Cont 30622</td>
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</table>

*Consult the Croplands Web site for exploded drawings, part numbers, etc.*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>GX200QX</td>
<td>Motor 5.5hp Honda</td>
</tr>
<tr>
<td>RS 3435000</td>
<td>Motor Honda GX160UT1 QXU</td>
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<tr>
<td>RS 3406000</td>
<td>Motor Honda GX120 QXU</td>
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</table>

*Consult your local Honda dealer for service & Spares.*

For further parts information refer www.croplands.com.au  
or Customer Support on 1800 999 162
<table>
<thead>
<tr>
<th>Croplands Customer Service</th>
<th>Croplands Customer Service</th>
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<tbody>
<tr>
<td><strong>Australia</strong></td>
<td><strong>New Zealand</strong></td>
</tr>
<tr>
<td>Freecall: 1800 999 162</td>
<td>Freecall: 1800 106 898</td>
</tr>
<tr>
<td>Freefax: 1800 623 778</td>
<td>Freefax: 1800 117 711</td>
</tr>
<tr>
<td><a href="mailto:sales@croplands.com.au">sales@croplands.com.au</a></td>
<td><a href="mailto:sales@croplands.co.nz">sales@croplands.co.nz</a></td>
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