

## OWNER'S MANUAL for the

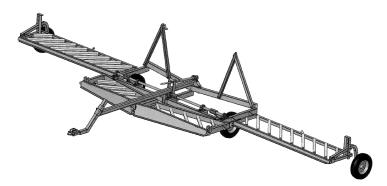
# Eliminator



# **Winged Eliminator**



# Eliminator+



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## SAFETY PRECAUTIONS

## Eliminator, Winged Eliminator & Eliminator+

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

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

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

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

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

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

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

Throughout this manual there are highlighted text boxes containing warnings, cautions and notes. **Warnings** are mandatory instructions to prevent serious injury or permanent damage. **Cautions** are advisory instructions to ensure reliable operation of the equipment. **Notes** are for convenient operation.

# C-Dax Eliminator, Winged Eliminator & Eliminator+

#### **OWNER'S MANUAL**

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#### WARNING

The Winged Eliminator & Eliminator+ utilize a latch mechanism to hold the wings in the upright position. Extreme care must be taken to ensure that the wings are in the upright position before proceeding through gateways. The latch mechanism should be regularly inspected to ensure that the latches are engaging fully and the wings are remaining upright.

#### WARNING

The Eliminator controller is not waterproof. It should be mounted appropriately and kept dry when not in use. Care should be taken when cleaning ATV's or other vehicles that water is not directed onto the controller.

#### 1 WARRANTY AND LIABILITY

#### Use of the equipment

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

#### Your relationship with the retailer

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

#### Warranty

- 1.3 C-Dax warrants to the original purchaser that the equipment is sold free from defects in materials and workmanship for a period of 12 months from date of first retail sale (6 months from date of first retail sale if the equipment is sold in the U.K.) subject to the terms set out below.
- 1.4 C-Dax will at its option repair or replace the defective equipment (or part of the equipment) or notify the retailer of the equipment to refund the purchase price for such defective equipment to you in the event of a breach of this warranty, subject to the terms set out below.

#### Liability

- 1.5 Except for the warranty set out in clause 1.2 above, all warranties and representations (including those expressed or implied by law) in respect of the equipment or advice relating to the equipment provided to you by C-Dax are excluded to the extent permitted by law.
- 1.6 Notwithstanding anything else in this manual, C-Dax's maximum liability to you (in the event that such liability exists) in respect of any breach of warranty, any matter set out in this manual, or for defective equipment or advice relating to the equipment provided is limited at C-Dax's option to:
  - (a) repairing or replacing the equipment (or part of the equipment); or
  - (b) notifying the retailer of the equipment to refund the price for the equipment paid by you.
- 1.7 Notwithstanding anything else in this manual, in no event will C-Dax be liable, whether in contract, tort (including negligence) or otherwise:
  - (a) where you have altered or modified the equipment, misused or misapplied the equipment, or the equipment has been subjected to any unusual, excessive or nonrecommended use, service or handling (including as set out in this manual);
  - (b) where the equipment is not transported, stored, handled or used in accordance with any directions given by C-Dax (or the retailer) to you (including as set out in this manual);
  - (c) where the equipment:
    - has been subject to neglect, accident or hireage, or the damage arises from fair wear and tear, battery damage or chemical attack;
    - (ii) has been built to a customer's specifications; or
    - (iii) has been dismantled, repaired or serviced other than by an authorised service agent of C-Dax;
  - (d) for loss or damage caused by any factors beyond C-Dax's control; or

- (e) for any loss of profit or revenue, or for any special, indirect, incidental or consequential damage, loss or injury of any kind suffered by you.
- 1.8 Where C-Dax elects to repair or replace the equipment it will use reasonable endeavours to do so as soon as practicable but will not be liable for any delay in doing so.
- 1.9 You agree that the transactions entered into between you and the retailer (and C-Dax) are for the purposes of trade and that, having regard to all relevant circumstances of the transactions, it is fair and reasonable that the provisions of the Consumer Guarantees Act 1993 (NZ) do not apply to those transactions to the fullest extent permitted by law.

#### DESCRIPTION

The C-Dax Eliminator is the latest model in the popular C-Dax weed wiper range of products. It is a trailed wiper with a 2.34m effective width (or 4.3m effective width for the Winged Eliminator and 6m effective width for the Eliminator +) and has been designed for maximum strength with minimum weight. All wiping loads are taken on the vehicle tow bar.

The C-Dax Eliminator is a very powerful tool in the fight against erect weeds such as rushes, fern, annual buttercup, ragwort, docks, and thistle. Control of these weeds is now easy and environmentally and operator friendly. The unique extended wiping action ensures that in most cases only one pass is required at speeds of up to 12 kph. Very little herbicide is wasted because only the weeds are contacted. Wiping can be done on hillsides and in windy conditions.

The Eliminator has four wiping heights from <u>approximately</u> 50mm to 350mm and is compatible with the C-Dax Sprayrider, Spraymate, and SO200 series of 12VDC powered sprayers. Each Eliminator is supplied with an electronic pump control unit for hands-free operation.

The Eliminator employs a unique C-Dax pressurised feed system to ensure even flow of spray fluid across the wiper frame irrespective of the slope of the area being wiped.

#### ORDER INFORMATION

|                   | NZ   | EXPORT-AUS & UK (Both with 50mm HITCH) |
|-------------------|------|--|
| Eliminator        | 1015 | 1015                                   |
| Winged Eliminator | 1016 | 1016                                   |
| Eliminator +      | 1114 | 1114                                   |

#### **OPTIONAL EQUIPMENT**

| Electronic Control Panel<br>50L Onboard Tank Unit | 1500-4300<br>1017      | Electronic pump controller<br>Allows the Eliminator to be operated without an<br>external spray tank (includes pump). |
|---|------------------------|---|
| Mounting bracket for<br>Eliminator+ on board tank | 1300-6510              | Eliminator+ tank mounting bracket   |
| M12x90 hex bolts<br>M12 nyloc nuts                | 2840-1290<br>3170-0012 | Bolts needed for mounting bracket x4<br>Nyloc nuts needed for mounting bracket x4                                     |

#### ASSEMBLY

#### **NOTE** To aid assembly, exploded parts diagram of the Eliminator, Winged Eliminator and Eliminator + are shown at the end of this document.

Unpack the Eliminator and check the contents. Each Eliminator is shipped assembled in kit form. Each kit contains the wiper frame, draw bar, left and right hand wheel assemblies, and parts kit.

| Part   | Description   | Qty |  |  |
|--|---|-----|--|--|
| 1500-4300  | 0 Cable-Electrical-Loom-Eliminator-Control Box                |     |  |  |
| 5600-1300  | Packaging-Carton-380Lx380Wx130D-Printed                       | 1   |  |  |
| 8427-4200  | Sub-Hose Assembly-Wiper-Eliminator                            | 1   |  |  |
| 2400-5800  | Document-Manual-Eliminator-G2                                 | 1   |  |  |
| 1018-3921  | Adjuster-Height-Eliminator-RH-ZP                              | 1   |  |  |
| 1018-3920  | Adjuster-Height-Eliminator-LH-ZP                              | 1   |  |  |
| 2000-0013  | Clamp-Hose-Herbi-E-Ratchet-13.1<>15.1mm-Black-Nylon           | 2   |  |  |
| 2000-0015  | 2000-0015 Clamp-Hose-Herbi-F-Ratchet-15.0<>17.1mm-Black-Nylon |     |  |  |
| 2000-4008  | 2000-4008 Clamp-Hose-Worm Drive-Jubilee-8mm-Stainless         |     |  |  |
| 2840-1290  | 2840-1290 Fastener-Bolt&Nut-Hex-8.8 Grade-M12x90-ZP           |     |  |  |
| 3170-0012 Fastener-Nut-Nyloc-M12-ZP                |   | 4   |  |  |
| 3310-5012 Fastener-Washer-Flat-Heavy-M12x32x3-Galv |   | 8   |  |  |
| 5300-5000  | Nozzle-Plate-Teejet-Orifice-0.055in-SS                        | 1   |  |  |
| 5600-1160  | Packaging-Bag-Plastic-Zip Seal-180x255mm                      | 1   |  |  |
| 6100-4780  | Pin-Locking-10x57mm-ZP  | 1   |  |  |
| 6100-4800  | 6100-4800 Pin-Locking-11x100mm-ZP                             |     |  |  |
| 6200-7210  | Pipe-Fitting-Quick Release-Male Connectorx8.5 Shank-Brass     | 1   |  |  |
| 6200-7240  | Pipe-Fitting-Quick Release-Valve-1/4BSPM-Brass                | 1   |  |  |
| 6200-7250  | Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shank-Brass         | 1   |  |  |

#### Standard Eliminator Frame

Attach the left and right wheel assemblies to the frame using the M12 bolts, washers and nyloc nuts. There is a left hand and right hand height adjuster. The flats on the height adjusters should face the outside of the frame. Ensure that the nuts are done up tight so that there is no sideways movement of the wheel assembly.

Lift the wiper frame to the desired wiping height and insert the large lock pins through the corresponding holes. Secure the lock pins with the spring clip.

Insert the drawbar into the appropriate socket to match the height of the ATV tow ball. Ensure that the wiper frame is level (if necessary invert the draw bar to obtain the correct height). Secure the draw bar with the small lock pin provided and latch the pin with the spring clip.

Attach the Eliminator to the vehicle tow ball, ensuring that the tow hitch size is correct for your vehicles tow ball.

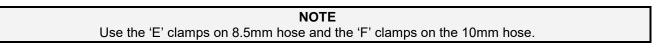
#### **Hose Assembly**

Use the diagram on the following page to aid hose assembly. If your unit is fitted with an onboard tank then please follow the instructions provided in the separate *Eliminator Tank* manual provided with the tank.

1. To connect the Eliminator to the sprayer, the delivery hose from the sprayer must be modified. Cut this hose at a convenient point and fit the brass quick release valve to the end.

NOTE A brass hose shank is provided to allow the original hose to be reconnected to the sprayer when the Eliminator is not being used.

- 2. Connect the hose assembly into the delivery hose quick coupler ensuring that the fitting with the white T is connected to the quick coupler.
- 3. Route the long end of the hose assembly to the Eliminator, cut to length and connect to the plastic T fitting at the centre of the frame. Use the supplied jubilee clip to connect the two.
- 4. Secure all hose connections with the nylon hose clips provided.



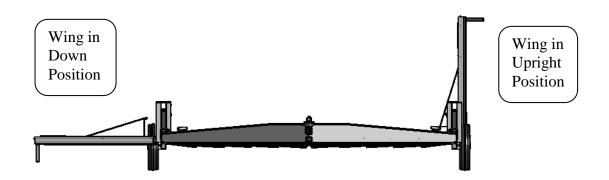
- 5. To prevent snagging the delivery hose it is recommended that it be temporarily secured to the Eliminator drawbar using tape.
- 6. To complete the installation a bypass fitting will need to be fitted into the spray tank. Most C-Dax spray tanks have a threaded fitting moulded in for this purpose. See instructions on following page for bypass installation.

#### Winged Eliminator

In addition to the assembly detailed above, the left hand and right hand self angling wings need to be bolted to the centre section. To find the right hand and left hand wing, align the frames so that the 'bruise bars' on all sections are facing forward. Each wing is bolted through two hinges at either end of the centre section using two M8x10x25 shoulder bolts, four M8 washers, four M10 washers and two M8 Nyloc nuts. For assembly detail please refer to the exploded parts diagrams at the end of this manual.

To connect the plumbing to each wing simply connect the male quick coupler on the wing to the female coupling on the centre section. These quick couplers are self sealing and therefore give the option of leaving the couplers disconnected and the wings in the upright position, utilizing only the centre section if desired.

WARNING <u>Always check Eliminator wings are in the upright position before proceeding through gates.</u>



#### Eliminator+

The following text and photos explain the sequence of assembly of the Eliminator+ which is supplied in a part built state but partly dismantled for ease of shipping. For assembly detail please refer to the exploded parts diagrams at the end of this manual.



This is how the Eliminator+ will be delivered. The photo above shows the Eliminator tank which might not be included in the product you receive – this depends on what was ordered.





This part is a two man operation. Place the main frame and front carpeted frame onto trestles and clamp. Slide the spine onto the carpeted frame and main frame and bolt together.



Lower the suspension and fit the wheels





Bolt the pillow block bearing to the frame and bolt the "T" piece to the quadrants.





If required, bolt the tank bracket onto the spine making sure there is enough clearance for full travel of the suspension quadrants. See exploded parts diagrams on page 24-27 for details.



Bolt the "A" frames into position – note that the frames fit on the forward side of the rear crossmember. These are marked with "R" and "L" on both the "A" frame and the rear crossmember to aid assembly



Fit the wings to the main frame – use washers as spacers on the shoulder bolts if required. Fit the RH & LH axles and height adjusters. Fit wheels to all the axles.



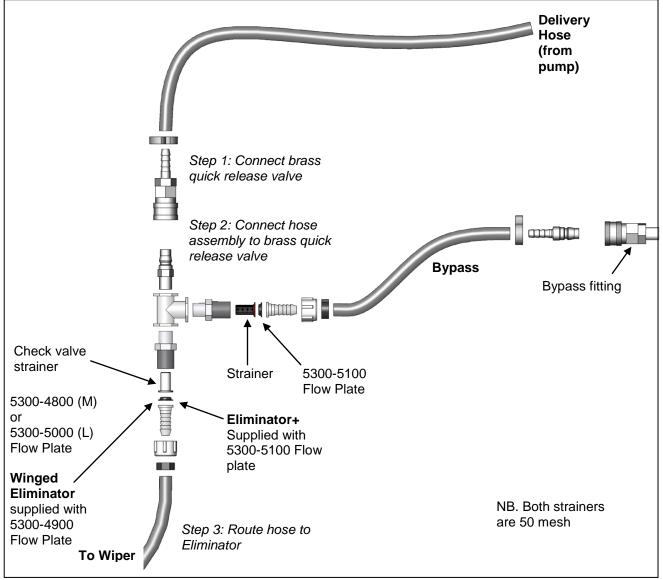


Fit the latches (if not already fitted) and adjust as required.





Fit the drawbar. Fit and plumb tank if required. Adjust the suspension, outer wheels and drawbar to suit the operation.



#### **Bypass Fitting**

#### 50 and 80 Litre Sprayrider Tanks

- 1. Locate the brass insert in the tank rear wall under the blue fresh water tank, and carefully drill out the plastic using a 10mm drill bit.
- 2. Screw the 10 mm brass quick-coupler into the insert as shown below.
- 3. Connect the short hose of the Eliminator hose assembly to this tank connection.

#### 60 and 100 Litre Sprayrider Tank (Old model, sold prior to 2005)

- 1. Remove the pump cover to expose the  $\frac{1}{4}$ " BSP brass insert in the back of the tank.
- 2. Carefully drill out the plastic from inside the insert using a 10mm drill bit.
- 3. Drill a 25mm hole in the pump cover in line with the brass insert. There is a small dimple in the cover to mark the position of the hole.
- 4. Screw the 10 mm brass quick-coupler into the insert and replace the pump cover.
- 5. Connect the short hose of the Eliminator hose assembly to this tank connection.

#### 200 Litre U200 Tank (Old model, sold prior to 2008)

- 1. Locate the brass insert in the tank wall and carefully drill out the plastic using a 10mm drill bit.
- 2. Screw in the 10 mm brass quick-coupler either directly or using an elbow (200L only).
- 3. Connect the short hose of the Eliminator hose assembly to this tank connection.

#### Spraymate 50

The following additional parts (not supplied in parts kit) are required to connect the return line quick release valve to the SM50 tank:

| Part No.  | Description               | QTY |
|-----------|---------------------------|-----|
| 4500-1300 | Bypass provision Assembly | 1   |

- 1. Locate the brass insert in the top of the tank and carefully drill out the plastic using a 10mm drill bit.
- 2. Apply some pipe thread sealant to the threaded connector and screw the connector to the nylon elbow.
- 3. Apply some pipe thread sealant to the quick release valve and carefully screw the valve into the nylon elbow.
- 4. Apply some thread sealant to the brass connector and carefully screw the whole assembly into the brass insert in the tank.
- 5. Connect the short hose of the Eliminator hose assembly to this tank connection.

#### Spraymate 30, Spraymate 100, and Sprayrider 45 & SO200 sprayers

The following additional parts (not supplied in parts kit) are required to connect the return line quick release valve to the SM30, SM100, and SR45 tanks:

| Part No.  | Description               | QTY |
|-----------|---------------------------|-----|
| 4500-1300 | Bypass provision Assembly | 1   |

- 1. Using a 12.5mm drill, drill a hole in the top of the tank.
- 2. Apply some thread sealant to the male thread on the brass reducer and screw it into the nylon elbow from inside the tank.
- 3. Apply some thread sealant to the brass quick release valve and screw it into the nylon elbow.
- 4. Connect the short hose of the Eliminator hose assembly to the tank quick-release valve.

#### **Control Panel**

- 1. Unplug the cable assembly supplying power to the sprayer.
- 2. Connect the control cable between the power cable and the sprayer.
- 3. Attach the control box to the ATV using the self-adhesive Velcro pad provided.

#### TESTING

- 1. Part fill the tank with fresh clean water.
- 2. Turn on the pump using the switch on the control panel. The pump will cycle on and off, turn the control knob to '7'

#### CAUTION

When using the electronic control panel it is essential that the sprayer battery cable be correctly connected. If incorrect polarity is applied to the control panel the internal protection circuit will cause the fuse to blow. Repeat applications of power will eventually damage the protection circuit. If the fuse blows, check the polarity of the battery cable before replacing the fuse. **Never replace the fuse with a value higher than 10A** 

- 3. Check that there are no leaks in the hose connections.
- 4. Allow the carpets to become wet until dripping. The flow rate from each carpet should be the same and should cause even wetting along the entire length of each carpet.

#### NOTE

When the wiper is used for the first time, it may be necessary to break the surface tension of the woollen wiper pads. Mix up some detergent and tip it over the wiper pads.

#### WIPING

For best results the following points should be noted:

- a. Use clean fresh water, preferably tank water.
- b. It is advisable to graze pasture well before wiping to maximise the weed's exposure to the wiper.
- c. Remove excessive dead material in weeds such as rushes and fern by hard grazing or burning then wipe the fresh re-growth.
- d. Avoid low humidity, hot, dry conditions.
- e. The weeds should be actively growing and not under any stress.
- f. Use an adjuvant see section 'adjuvants'
- g. Prevent mud, dust and dirt from getting on the carpets. This can easily occur during transport. Put mudflaps on the towing vehicle.

#### CHEMICAL APPLICATION

#### **Chemical Advice**

C-Dax Limited or their agents cannot make recommendations or give advice as to the use of chemicals and cannot accept responsibility for any damage, injury or other consequence for disregarding this warning notice. Contact your chemical supplier for advice.

#### WARNING

Mixing chemicals is a most dangerous activity as it involves handling the concentrated material. For toxic compounds, use protective clothing such as overalls, hat, gloves, boots and respirator.

When using diluted sprays, wear at least a hat, long-sleeved cotton overalls, and boots. If you use pesticides regularly, it is a good idea to always wear a respirator to avoid accumulation of toxins in the body. Other protection may be required. Check the label for specific directions for the particular chemical.

Protective clothing should be properly cared for. Rinse contaminated clothes in the open before washing in the laundry – be sure to keep separate from other washing.

Respirators need special care. Clean respirator after spraying. Use soapy water then rinse and allow to dry completely before storing in a clean plastic bag. Replace canisters in respirator after eight hours use.

Purchasers must ensure that operators of these machines are fully aware of the dangers of spraying chemicals.

#### **Herbicide Rates**

The following mixing ratios (chemical : water plus adjuvant) have been found more than adequate by Eliminator users:

| • 24-D (annual thistles)                                      | 1 : 10               |
|---|----------------------|
| Escort (ragwort)  | 1 gram : 1 litre     |
| Glyphosate (rushes, Californian thistle, Fescue)              | 1 : 20 to 1 : 10     |
| <ul> <li>Tordon Max (Californian thistle, Ragwort)</li> </ul> | 1 : 20 (single pass) |
|   | 1 : 40 (double pass) |

#### Adjuvants

Adjuvants are ingredients added to a pesticide to improve its performance.

The use of an adjuvant is recommended when wiping. They improve capillary action in the carpet, increase viscosity for better flow of the chemical solution, and improve adhesion and uptake into plant surfaces.

Thoroughly mix the herbicide and any adjuvants, with the water according to the instructions from the herbicide and adjuvant manufacturers.

Begin wiping soon after filling the tank.

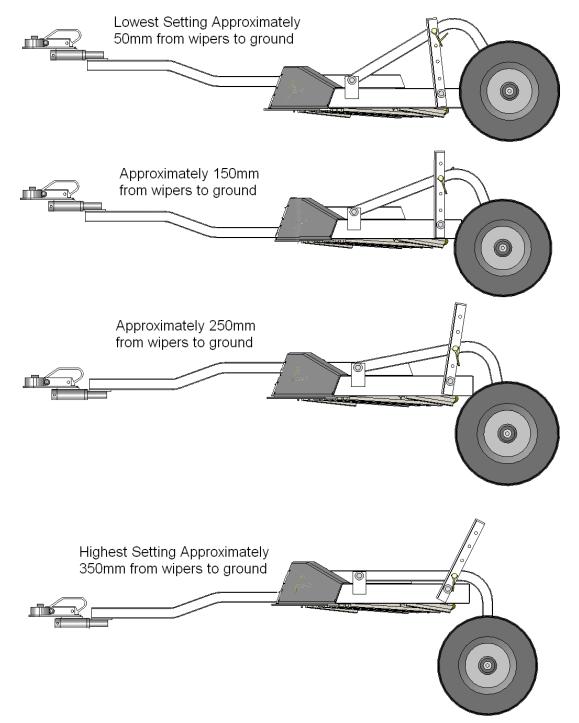
If a solution has been left standing for more than two hours stir it, or if a tank agitation system is available, turn it on.

#### CALIBRATION

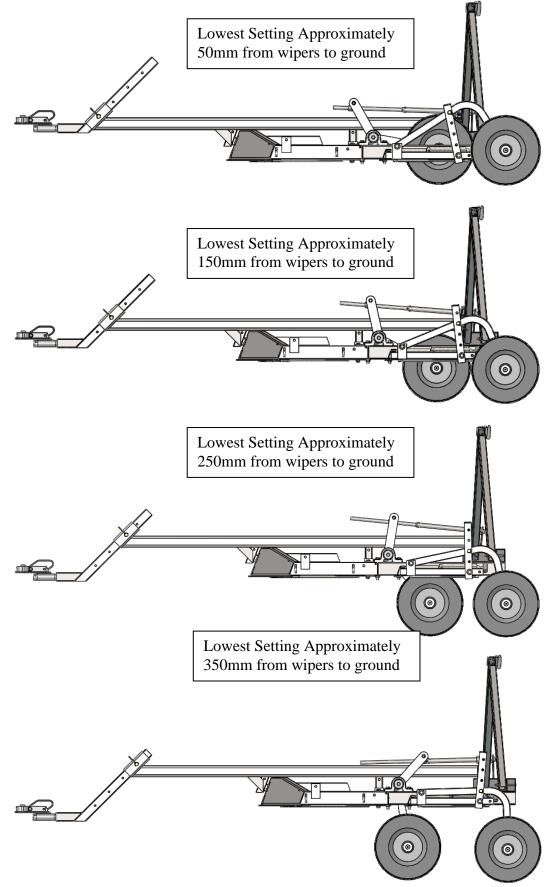
#### Height Adjustment (Eliminator and Winged Eliminator)

Run the wiper over the weeds and check that the height is suitable. Set the wiper as low as possible without running the risk of causing damage to the pasture, crop or frame. Whilst the Eliminator has been designed to withstand ground strikes, it should not be set so low that ground strikes re occur. Remember, the wiper is not a bulldozer.

The eliminator has four height settings shown below. The draw bar can be inserted into one of two holes and the wheel has four adjustment holes. The swivel tow hitch also allows the draw bar to be inserted upside down.



On the Winged Eliminator unit the wings has adjustable skids to match up the height of wings to centre frame to give consistent wiping height.



#### **Application Rates - Eliminator**

The Eliminator can be set up for medium or high application rates. For medium rates, a flow plate marked M (#37) is fitted in the delivery line to the wiper. This is the standard configuration. If a high application rate is required, a large flow plate marked L (#55) can be fitted. The flow plate in the bypass line is always a #63.

To change the flow plate, refer to the figure on page 7. Remove the nut connecting the delivery tube from the wiper to the white tee. Take care not to drop the check valve strainer when the nut is removed. Remove the M (#37) flow plate and replace it with the L (#55) flow plate provided in the parts kit. Ensure that the check valve strainer is in place then replace the nut.

The control unit settings provide the following approximate flow rates. Also shown are the average application rates per hectare at 8 kph.

 Medium Rates (M Flow Plate #37)

 1 - 120 ml/minute (4 l/ha)
 5 - 500 ml/minute (16 l/ha)

 2 - 240 ml/minute (7.5 l/ha)
 6 - 600 ml/minute (19.5 l/ha)

 3 - 340 ml/minute (11 l/ha)
 7 - 670 ml/minute (21.5 l/ha)

 4 - 430 ml/minute (14 l/ha)
 7 - 670 ml/minute (21.5 l/ha)

 High Rates (L Flow Plate #55)
 5 - 926 ml/minute (30 l/ha)

 2 - 411 ml/minute (13 l/ha)
 6 - 1083 ml/minute (35 l/ha)

 3 - 616 ml/minute (20 l/ha)
 7 - 1246 ml/minute (40 l/ha)

Application Rates – Winged Eliminator.

The Winged Eliminator is fitted with a #52 flow plate (and a #63 in the bypass line) which provides approximately 0.53 lpm to the centre section and 0.2 lpm to each wing when the pump is running continuously. If the controller is used with the Winged Eliminator, the flow rate will be reduced proportionally to the setting on the controller. There should not be a need to change the flow plate on the Winged Eliminator. If one of the wings is being operated independently of the other then adjustment can be made on the controller to maintain the desired application rate.

#### **Application Rates – Eliminator+**

4 - 786 ml/minute (25.5 l/ha)

The Eliminator+ is fitted with a #63 flow plate (and a #63 in the bypass line) which provides approximately 0.57 Lpm to the centre section and 0.48 Lpm to each wing when the pump is running continuously at maximum power. If the controller is used with the Eliminator+, the flow rate will be reduced proportionally to the setting on the controller. There should not be a need to change the flow plate on the Eliminator+. If one of the wings is being operated independently of the other then adjustment can be made on the controller to maintain the desired application rate.

#### **Maximum Speeds**

The Eliminator can be towed at up to 15 Kph. However when wiping the following speeds have been found to be effective;

a. Sparse infestations of easy to kill weeds (e.g. Scotch Thistle) - 12 kph.

b. Very thick undulating infestations, (e.g. Rushes and Bracken) - 5 to 8 kph.

#### WARNING

Operation of the Eliminator at high speed over rough ground may damage the frame. Do not allow the Eliminator to bounce or hit fixed objects.

#### Setting the Flow Rate

Set the electronic control unit to mid-range for the first round. Visibly inspect the weeds and wipers after the first round. The carpets should be moist without dripping.

Use the higher number on the electronic controller for dense weed growth.

Trials have shown that the control knob on the electronic controller is not usually required to be set above '3'. Bear in mind, whilst the carpets are wet, they are applying herbicide to the target plants and doing their job.

#### MAINTENANCE

#### Flushing

Flush the tank and wiping system before storing. Set the controller to 7, or couple the pump direct to the battery lead so that the pump runs continuously.

Flush once with clean fresh water and detergent, then twice with clean water. Allow at least 4 minutes each time. During the flushing procedure, hose the carpets down with clean water to remove any dirt or other matter.

Check for even flow from all carpets.

Allow the carpets to dry out then store in a clean dry shed out of sunlight.

Wash any dust from the carpets before the next use.

#### Filters

After each use, remove the nuts from the tee in the hose assembly, check the strainers, and flow plates for blockages.

#### CAUTION

After cleaning the flow plates and strainers, ensure that the M flow plate and check valve strainer are fitted in the connection to the delivery line to the wiper, and that the #63 plate and non-check valve strainer are fitted in the bypass line to the tank. Failure to correctly install the flow plates and strainers will result in defective operation of the wiper.

#### Carpets

Inspect the wipers regularly and replace any that are badly worn or torn.

#### Frame

Inspect the bolts and tighten if loose. Never operate the wiper with loose bolts.

On Winged Eliminator and Eliminator+ units, regularly check the condition and engagement of the latch mechanisms that hold the wings in the upright position. The latches should fully engage the catches on the wings.

#### Wheels and Tyres

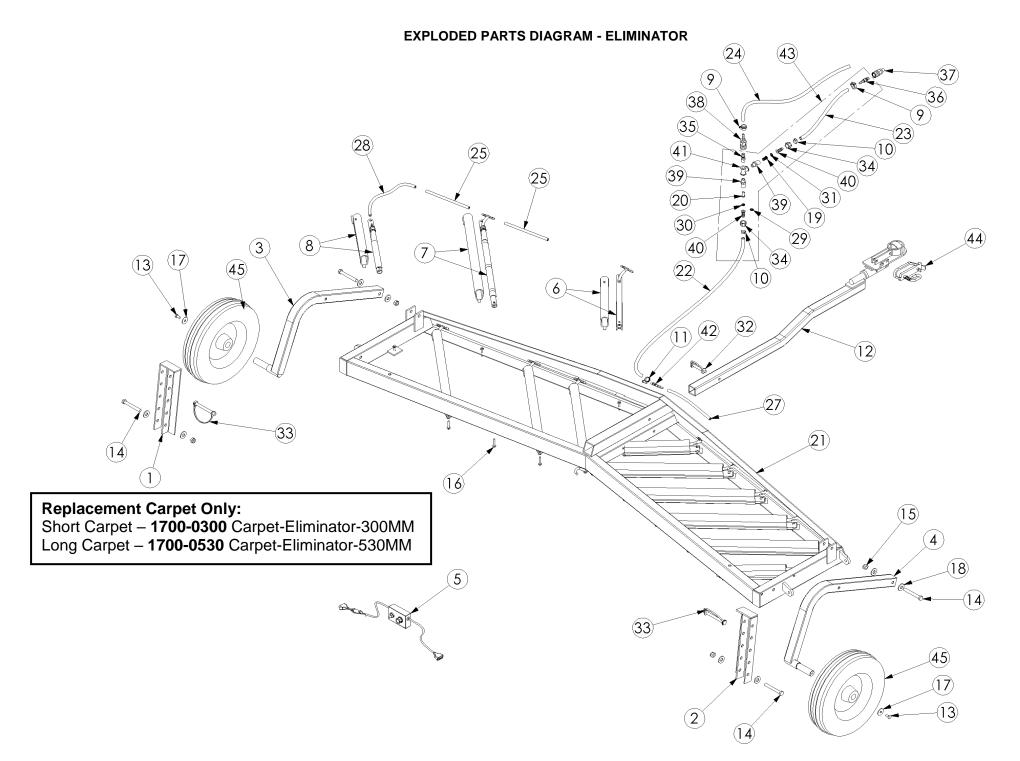
Lubricate the axles after each use and check the tyre pressures. The correct tyre pressure is 15 psi (100KPA).

#### **TROUBLE SHOOTING**

| PROBLEM                | CAUSE   | ACTION                          |
|------------------------|---|---------------------------------|
| Insufficient flow from | 1. Faulty pump                                  | Return to supplier for service  |
| ALL carpets            | 2. Blocked suction filter                       | Clean                           |
|                        | 3. Blocked flow plate or filter at              | Clean                           |
|                        | check valve on hose to wiper                    |                                 |
|                        | 4. Kinked hose                                  | Straighten                      |
| Insufficient flow from | 1. Blocked soak line under carpet               | Remove carpet and check.        |
| one carpet             |   | Replace or clean                |
|                        | 2. Blocked hose tail connector at               | Flush and wash down carpets     |
|                        | base of yellow carpet pipe                      | Demonstration disk and see also |
| Uneven wetting along a | 1. Partial blocking of soak line under          | Remove carpet and check soak    |
| carpet.                | carpet.   | line.                           |
|                        | 2. Carpets not cleaned properly                 | Replace or clean                |
|                        |   | Flush and wash down carpets     |
| Too much flow from     | <ol> <li>Pump operating for too long</li> </ol> | Reduce pumping interval         |
| carpets                | 2. Flow plates incorrect                        | Check and correct               |
| High initial flow from | 1.Blocked flow plate or filter at               | Clean                           |
| carpets when pump      | check valve on the by-pass hose                 |                                 |
| turns on               |   |                                 |
| Pump fails to prime    | 1. Faulty pump                                  | Return to supplier for service  |
|                        | 2. Air in suction line                          | Check connections for leaks     |
| Pump fails to operate  | 1. Faulty Electronic controller                 | Return to supplier for service  |
|                        | 2. Faulty electrical connection                 | Check connections               |
|                        | 3. Faulty pump                                  | Return to supplier for service  |
| Fuse blows each time   | 1. Battery cable connected                      | Check battery connections and   |
| power is applied       | incorrectly                                     | reverse if required             |

### WARNING

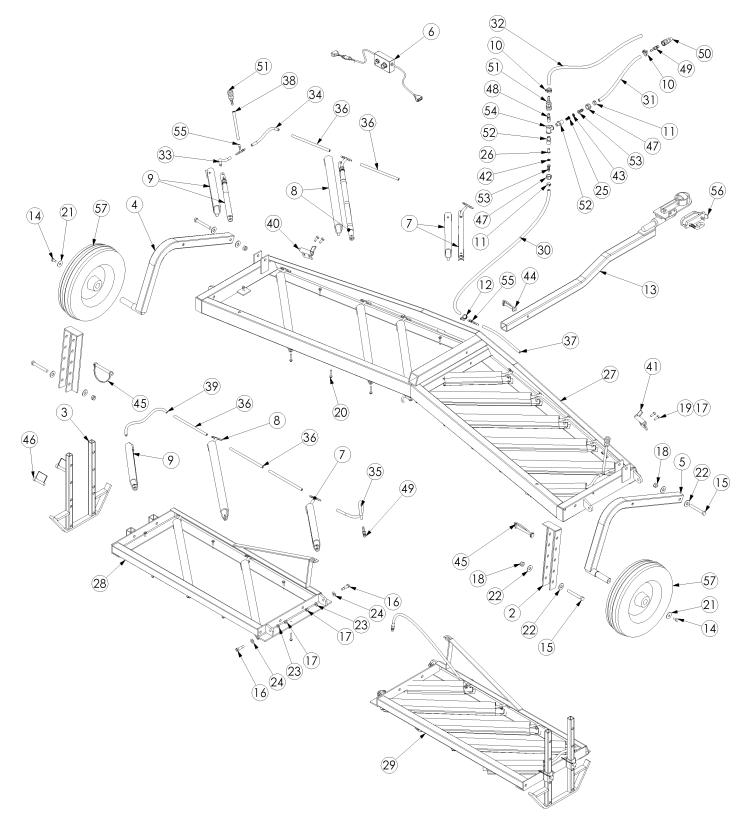
Do not fit a fuse with a higher rating than 10A to the Eliminator controller.



### PARTS LIST - ELIMINATOR

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| Hose-Spray-Delivery-7 Bar-6mm ID-PVC<br>Hose-Spray-Delivery-7 Bar-6mm ID-PVC |  |
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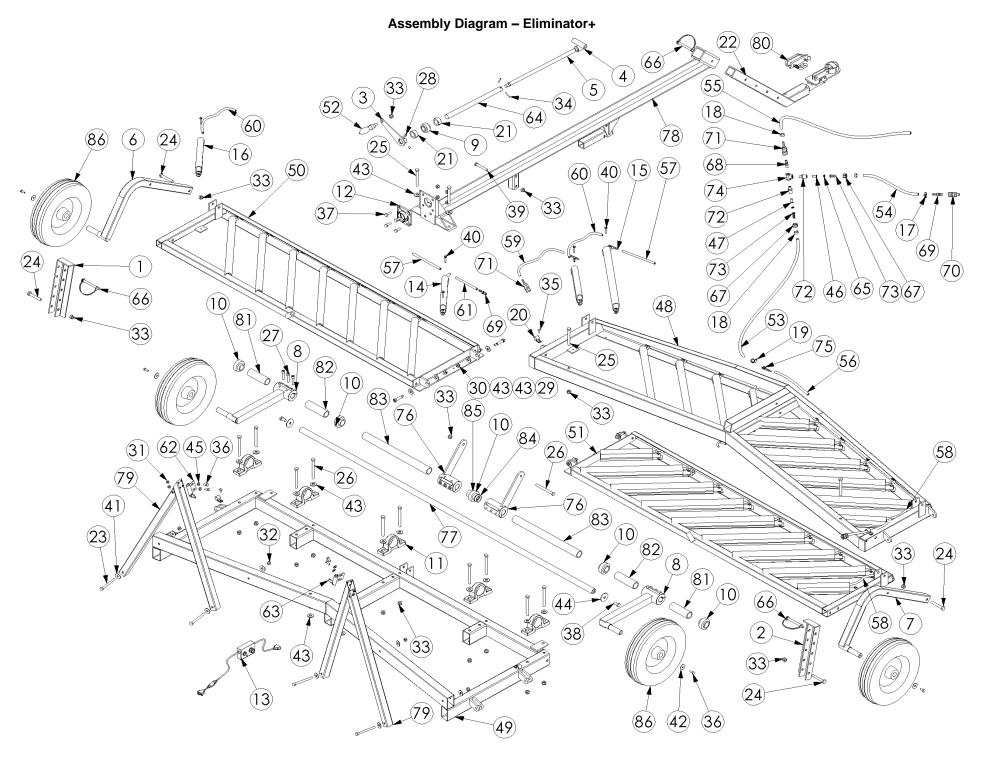
### **Exploded Diagram - Winged Eliminator**



### Parts List – Winged Eliminator

| Itom No  | ΟΤΥ  |           | Parts List – Winged Eliminator                                 |
|----------|------|-----------|--|
| Item No. | QTY. | part no   | description  |
| 1        | 1    | 1018-3920 | Adjuster-Height-Eliminator-LH-ZP                               |
|          | 1    | 1018-3921 | Adjuster-Height-Eliminator-RH-ZP                               |
| 3        | 2    | 1018-3940 | Adjuster-Height-Eliminator WING SKID-GL                        |
| 4<br>5   | 1    | 1082-2400 | Axle-Eliminator G2-LH-ZP                                       |
|          | 1    | 1082-2401 | Axle-Eliminator G2-RH-ZP                                       |
| 6<br>7   | 1    | 1500-4300 | Cable-Electrical-Loom-Eliminator-Control Box                   |
|          | 4    | 1700-1300 | Carpet-Wiper Assembly-Eliminator-Inner-300mm                   |
| 8        | 14   | 1700-1530 | Carpet-Wiper Assembly-Eliminator-530mm                         |
| 9        | 4    | 1700-2300 | Carpet-Wiper Assembly-Eliminator-Outer-300mm                   |
| 10       | 2    | 2000-0013 | Clamp-Hose-Herbi-E-Ratchet-13.1<>15.1mm-Black-Nylon            |
| 11       | 2    | 2000-2014 | Clamp-Hose-Oetiker-Single Ear Stepless-14.5<>7.0mm-S/S         |
| 12       | 1    | 2000-4008 | Clamp-Hose-Worm Drive-Jubilee-8mm-Stainless                    |
| 13       | 1    | 2550-2300 | Drawbar-Eliminator-ZP  |
| 14       | 2    | 2840-0816 | Fastener-Bolt&Nut-Hex-8.8 Grade-M8x16-ZP                       |
| 15       | 4    | 2840-1290 | Fastener-Bolt&Nut-Hex-8.8 Grade-M12x90-ZP                      |
| 16       | 4    | 3077-1025 | Fastener-Shoulder Bolt-Cap Head-Socket-M8x10x25-ZP             |
| 17       | 8    | 3170-0008 | Fastener-Nut-Nyloc-M8-ZP                                       |
| 18       | 4    | 3170-0012 | Fastener-Nut-Nyloc-M12-ZP                                      |
| 19       | 4    | 3290-0820 | Fastener-Set Screw-Hex-8.8 Grade-M8x20-ZP                      |
| 20       | 44   | 3300-6100 | Fastener-Tek Screw-Hex-12Gx40-Hitek-Fully Threaded-ZP          |
| 21       | 2    | 3310-3008 | Fastener-Washer-Flat-Fender-M8x32x1.5-ZP                       |
| 22       | 8    | 3310-5012 | Fastener-Washer-Flat-Heavy-M12x32x3-Galv                       |
| 23       | 4    | 3310-6008 | Fastener-Washer-Flat-M8-ZP                                     |
| 24       | 4    | 3310-6010 | Fastener-Washer-Flat-M10-ZP                                    |
| 25       | 1    | 3400-5400 | Filter-Nozzle Tip-50 Mesh-Plastic                              |
| 26       | 1    | 3400-5410 | Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS Ball-Plastic |
| 27       | 1    | 3500-7500 | Frame-Wiper-Eliminator-Winged-GL                               |
| 28       | 1    | 3500-7600 | Frame-Wiper-Eliminator Wing-LH-GL                              |
| 29       | 1    | 3500-7601 | Frame-Wiper-Eliminator Wing-RH-GL                              |
| 30       | 1    | 4100-0008 | Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow                     |
| 31       | 1    | 4100-0008 | Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow                     |
| 32       | 1    | 4100-0008 | Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow                     |
| 33       | 2    | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-Yellow                        |
| 34       | 2    | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-Yellow                        |
| 35       | 1    | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-Yellow                        |
| 36       | 14   | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC                           |
| 37       | 1    | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300 Long)                |
| 38       | 2    | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC                           |
| 39       | 2    | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC                           |
| 40       | 1    | 4680-2300 | Latch-Eliminator Wing-LH-ZP                                    |
| 41       | 1    | 4680-2301 | Latch-Eliminator Wing-RH-ZP                                    |
| 42       | 1    | 5300-4900 | Nozzle-Plate-Teejet-Orifice-0.052in-SS                         |
| 43       | 1    | 5300-5100 | Nozzle-Plate-Teejet-Orifice-0.063in-SS                         |
| 44       | 1    | 6100-4780 | Pin-Locking-10x57mm-ZP   |
| 45       | 2    | 6100-4800 | Pin-Locking-11x100mm-ZP  |
| 46       | 4    | 6100-4805 | Pin-Locking-SQUARE-11x54x40mm-ZP                               |
| 47       | 2    | 6200-5550 | Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic                      |
| 48       | 1    | 6200-7200 | Pipe-Fitting-Quick Release-Male Connectorx1/4BSPM-Brass        |
| 49       | 3    | 6200-7210 | Pipe-Fitting-Quick Release-Male Connectorx8.5 Shank-Brass      |

| 50 | 1 | 6200-7240 | Pipe-Fitting-Quick Release-Valve-1/4BSPM-Brass             |
|----|---|-----------|--|
| 51 | 3 | 6200-7250 | Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shank-Brass      |
| 52 | 2 | 6200-7380 | Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straight-Plastic    |
| 53 | 2 | 6200-8220 | Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-Plastic |
| 54 | 1 | 6200-9100 | Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPF-Plastic           |
| 55 | 3 | 6200-9130 | Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shank-Plastic           |
| 56 | 1 | 8800-3800 | Tow-Coupling-Handle-Double Ended-1 7/8" x 50mm-ZP          |
| 57 | 2 | 9200-7500 | Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Series                  |

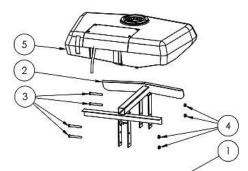


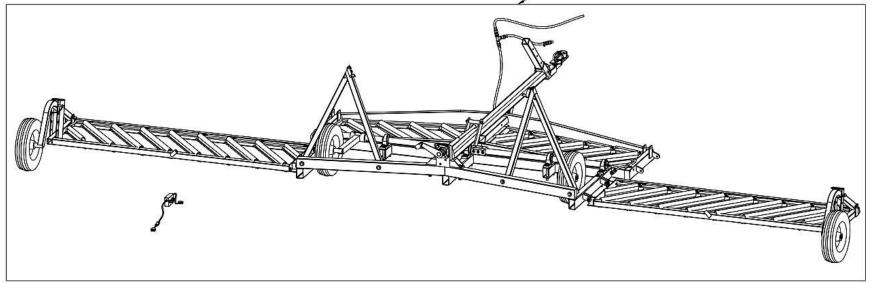
#### Parts List – Eliminator+

| ltem<br>No. | QTY. | part no   | Description  |
|-------------|------|-----------|--|
| 1           | 1    | 1018-3920 | Adjuster-Height-Eliminator-LH-ZP                               |
| 2           | 1    | 1018-3921 | Adjuster-Height-Eliminator-RH-ZP                               |
| 3           | 1    | 1018-4050 | Adjuster-Handle-Wiper-Eliminator+-ZP                           |
| 4           | 1    | 1018-5300 | Adjuster-Nut-Wiper-Eliminator+-ZP                              |
| 5           | 1    | 1018-8795 | Adjuster-Thread-Wiper-Eliminator+-ZP                           |
| 6           | 1    | 1082-2400 | Axle-Eliminator G2-LH-ZP                                       |
| 7           | 1    | 1082-2401 | Axle-Eliminator G2-RH-ZP                                       |
| 8           | 2    | 1082-2410 | Axle-Wiper-Eliminator+-LH/RH-ZP                                |
| 9           | 1    | 1140-1200 | Bearing-Ball-Pillow Block-Drive Axle-Spreaders                 |
| 10          | 5    | 1140-1210 | Bearing-Ball-Pillow Block-Eliminator+                          |
| 11          | 5    | 1140-4010 | Bearing-Housing-Pillow Block-Eliminator+                       |
| 12          | 1    | 1140-4015 | Bearing-Housing-Flanged-Eliminator+                            |
| 13          | 1    | 1500-4300 | Cable-Electrical-Loom-Eliminator-Control Box                   |
| 14          | 4    | 1700-1300 | Carpet-Wiper Assembly-Eliminator-Inner-300mm                   |
| 15          | 22   | 1700-1530 | Carpet-Wiper Assembly-Eliminator-530mm                         |
| 16          | 4    | 1700-2300 | Carpet-Wiper Assembly-Eliminator-Outer-300mm                   |
| 17          | 1    | 2000-0013 | Clamp-Hose-Herbi-E-Ratchet-13.1<>15.1mm-Black-Nylon            |
| 18          | 3    | 2000-2015 | Clamp-Hose-Oetiker-Single Ear Stepless-15.3<>18.5mm-S/S        |
| 19          | 1    | 2000-4008 | Clamp-Hose-Worm Drive-Jubilee-8mm-Stainless                    |
| 20          | 4    | 2050-5600 | Clip-P Type-Bracket-19mm-Steel ZPG                             |
| 21          | 2    | 2150-0025 | Collar-Shaft-ID25-ZP   |
| 22          | 1    | 2550-2310 | Drawbar-Wiper-Eliminator+-GL                                   |
| 23          | 4    | 2840-1110 | Fastener-Bolt&Nut-Hex-8.8 Grade-M10x110-ZP                     |
| 24          | 4    | 2840-1280 | Fastener-Bolt&Nut-Hex-8.8 Grade-M12x80-ZP                      |
| 25          | 4    | 2840-2100 | Fastener-Bolt&Nut-Hex-8.8 Grade-M12x100-ZP                     |
| 26          | 11   | 2840-2120 | Fastener-Bolt&Nut-Hex-8.8 Grade-M12x120-ZP                     |
| 27          | 12   | 2895-1045 | Fastener-Cap Head-Allen-Screw-12.9 Grade-M10x45-Galv           |
| 28          | 2    | 3010-5200 | Fastener-Grub Screw-Socket Head-3/8x3/8-Stainless              |
| 29          | 4    | 3077-1240 | Fastener-Shoulder Bolt-Cap Head-Socket-M10x12x40-ZP            |
| 30          | 4    | 3122-0010 | Fastener-Nut-Flanged-Locking-M10-ZPG                           |
| 31          | 4    | 3170-0008 | Fastener-Nut-Nyloc-M8-ZP                                       |
| 32          | 8    | 3170-0010 | Fastener-Nut-Nyloc-M10-ZP                                      |
| 33          | 21   | 3170-0012 | Fastener-Nut-Nyloc-M12-ZP                                      |
| 34          | 2    | 3205-0400 | Fastener-Pin-Roll-3/16"x1 1/4"-Black Steel                     |
| 35          | 4    | 3240-0018 | Fastener-Rivet-Blind-Truss Head-3/16x18mm-Aluminium            |
| 36          | 8    | 3290-0820 | Fastener-Set Screw-Hex-8.8 Grade-M8x20-ZP                      |
| 37          | 4    | 3290-1030 | Fastener-Set Screw-Hex-8.8 Grade-M10x30-ZP                     |
| 38          | 2    | 3290-1225 | Fastener-Set Screw-Hex-8.8 Grade-M12x25-ZP                     |
| 39          | 1    | 3290-1275 | Fastener-Set Screw-Hex-8.8 Grade-M12x75-ZP                     |
| 40          | 60   | 3300-6100 | Fastener-Tek Screw-Hex-12Gx40-Hitek-Fully Threaded-ZP          |
| 41          | 8    | 3310-2810 | Fastener-Washer-Flat-M10x32x2.5-Grade 316-Stainless            |
| 42          | 4    | 3310-3008 | Fastener-Washer-Flat-Fender-M8x32x1.5-ZP                       |
| 43          | 22   | 3310-5012 | Fastener-Washer-Flat-Heavy-M12x32x3-Galv                       |
| 44          | 2    | 3310-5014 | Fastener-Washer-Flat-Heavy-M12x50x3-Galv                       |
| 45          | 4    | 3310-6008 | Fastener-Washer-Flat-M8-ZP                                     |
| 46          | 1    | 3400-5400 | Filter-Nozzle Tip-50 Mesh-Plastic                              |
| 47          | 1    | 3400-5410 | Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS Ball-Plastic |

| 48 | 1  | 3500-7500 | Frame-Wiper-Eliminator Winged-GL                           |
|----|----|-----------|--|
| 49 | 1  | 3500-7810 | Frame-Wiper-Eliminator+-GL                                 |
| 50 | 1  | 3500-7815 | Frame-Wiper-Eliminator+ WING-LH-GL                         |
| 51 | 1  | 3500-7816 | Frame-Wiper-Eliminator+ WING-RH-GL                         |
| 52 | 1  | 4050-7900 | Handle-Revolving-32 ODx90 Long-Eliminator+                 |
| 53 | 1  | 4100-0008 | Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow                 |
| 54 | 1  | 4100-0008 | Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow                 |
| 55 | 1  | 4100-0008 | Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow                 |
| 56 | 1  | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300 Long)            |
| 57 | 22 | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC                       |
| 58 | 2  | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC                       |
| 59 | 2  | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC                       |
| 60 | 2  | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300 Long)            |
| 61 | 3  | 4100-1006 | Hose-Spray-Delivery-7 Bar-6mm ID-PVC                       |
| 62 | 1  | 4680-2300 | Latch-Eliminator Wing-LH-ZP                                |
| 63 | 1  | 4680-2301 | Latch-Eliminator Wing-RH-ZP                                |
| 64 | 1  | 5200-5350 | Machined-Housing-Handle Rod-Eliminator+-ZP                 |
| 65 | 2  | 5300-5100 | Nozzle-Plate-Teejet-Orifice-0.063in-SS                     |
| 66 | 3  | 6100-4800 | Pin-Locking-11x100mm-ZP                                    |
| 67 | 2  | 6200-5550 | Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic                  |
| 68 | 1  | 6200-7200 | Pipe-Fitting-Quick Release-Male Connectorx1/4BSPM-Brass    |
| 69 | 3  | 6200-7210 | Pipe-Fitting-Quick Release-Male Connectorx8.5 Shank-Brass  |
| 70 | 1  | 6200-7240 | Pipe-Fitting-Quick Release-Valve-1/4BSPM-Brass             |
| 71 | 3  | 6200-7250 | Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shank-Brass      |
| 72 | 2  | 6200-7380 | Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straight-Plastic    |
| 73 | 2  | 6200-8220 | Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-Plastic |
| 74 | 1  | 6200-9100 | Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPF-Plastic           |
| 75 | 3  | 6200-9130 | Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shank-Plastic           |
| 76 | 2  | 6900-1000 | Quadrant-Wiper-Eliminator+-ZP                              |
| 77 | 1  | 7400-8000 | Rod-Suspension-Wiper-Eliminator+                           |
| 78 | 1  | 8190-4100 | Spine-Wiper-Eliminator+-GL                                 |
| 79 | 2  | 8292-4100 | Stay-Wiper-Eliminator+-GL                                  |
| 80 | 1  | 8800-3800 | Tow-Coupling-Handle-Double Ended-1 78 x 50mm-ZP            |
| 81 | 2  | 8840-3732 | Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE                    |
| 82 | 2  | 8840-3732 | Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE                    |
| 83 | 2  | 8840-3732 | Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE                    |
| 84 | 1  | 8840-3732 | Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE                    |
| 85 | 1  | 8840-3732 | Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE                    |
| 86 | 4  | 9200-7500 | Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Series                  |

Eliminator+ tank bracket diagram and parts list (optional extra)





| Item<br>No. | QTY. | e9 part no | e9 description                            |
|-------------|------|------------|---|
| 1           | 1    | 1114       | Eliminator+                               |
| 2           | 1    | 1300-6510  | Bracket-Mount-Tank-Eliminator+-GL         |
| 3           | 4    | 2840-1290  | Fastener-Bolt&Nut-Hex-8.8 Grade-M12x90-ZP |
| 4           | 4    | 3170-0012  | Fastener-Nut-Nyloc-M12-ZP                 |
| 5           | 1    | 1017       | Eliminator Tank                           |