

# OWNER'S MANUAL for the

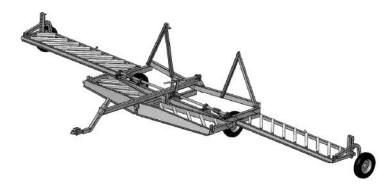
# **Eliminator**



# 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 ADVERSELY AFFECT THE STABILITY OF THE ATV
  OR OTHER VEHICLE.
- 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+

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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.

#### WARRANTY

#### 1 WARRANTY AND LIABILITY

#### Use of the equipment

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

#### Your relationship with the retailer

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

#### Warranty

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

#### Liability

- 1.5 Except for the warranty set out in clause 1.2 above, all warranties and representations (including those expressed or implied by law) in respect of the equipment or advice relating to the equipment provided to you by C-Dax are excluded to the extent permitted by law.
- 1.6 Notwithstanding anything else in this manual, C-Dax's maximum liability to you (in the event that such liability exists) in respect of any breach of warranty, any matter set out in this manual, or for defective equipment or advice relating to the equipment provided is limited at C-Dax's option to:
  - (a) repairing or replacing the equipment (or part of the equipment); or
  - (b) notifying the retailer of the equipment to refund the price for the equipment paid by you.
- 1.7 Notwithstanding anything else in this manual, in no event will C-Dax be liable, whether in contract, tort (including negligence) or otherwise:
  - (a) where you have altered or modified the equipment, misused or misapplied the equipment, or the equipment has been subjected to any unusual, excessive or 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:
    - (i) has been subject to neglect, accident or hireage, or the damage arises from fair wear and tear, battery damage or chemical attack;
    - (ii) has been built to a customer's specifications; or
    - (iii) has been dismantled, repaired or serviced other than by an authorised service agent of C-Dax;
  - (d) for loss or damage caused by any factors beyond C-Dax's control; or

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

#### **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**

	<u>NZ</u>	EXPORT-AUS & UK (Both with 50mm HITCH)
Eliminator	1015	1015
Winged Eliminator	1016	1016
Eliminator +	1114	1114

#### **OPTIONAL EQUIPMENT**

Electronic Control Panel	1500-4300	Electronic pump controller
50L Onboard Tank Unit	1017	Allows the Eliminator to be operated without an
		external spray tank (includes pump).

#### **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.

The standard Eliminator parts kit contains the following parts:

Part	Description	Qty
1500-4300	Cable-Electrical-Loom-Eliminator-Control Box	1
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	Clamp-Hose-Herbi-F-Ratchet-15.0<>17.1mm-Black-Nylon	2
2000-4008	Clamp-Hose-Worm Drive-Jubilee-8mm-Stainless	1
2840-1290	Fastener-Bolt&Nut-Hex-8.8 Grade-M12x90-ZP	4
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	Pin-Locking-11x100mm-ZP	2
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 guick 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.

#### **NOTE**

Use the 'E' clamps on 8.5mm hose and the 'F' clamps on the 10mm hose.

- 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.

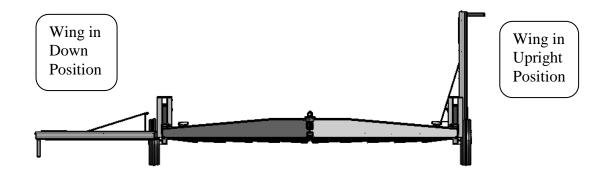
#### **Winged Eliminator**

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

Always check Eliminator wings are in the upright position before proceeding through gates.



#### 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.



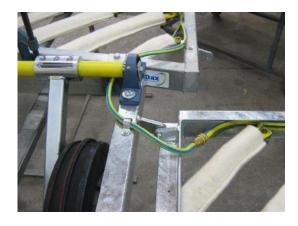


If required, bolt the tank bracket onto the spine making sure there is enough clearance for full travel of the suspension quadrants.





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.





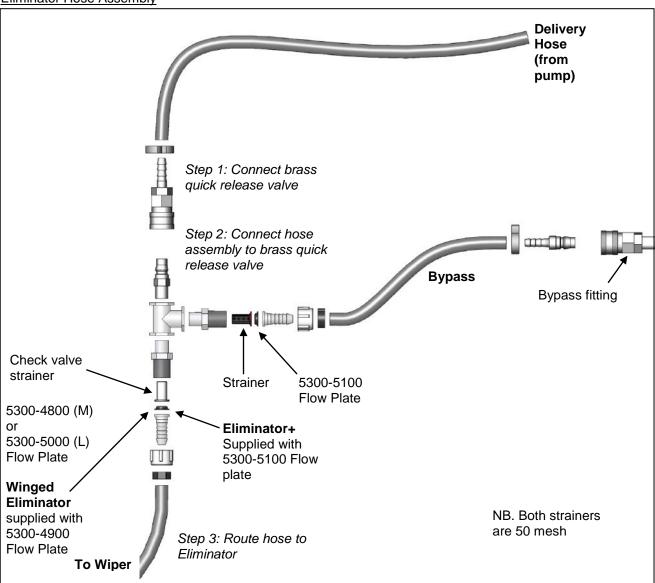
Fit the latches (if not already fitted) and adjust as required.





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

#### Eliminator Hose Assembly



**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

- 1. Remove the pump cover to expose the ¼" 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

- 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.
- 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.DescriptionQTY4500-1300Bypass provision Assembly1

- 1. Using a 12.5mm drill, drill a hole in the top of the tank.
- 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)
 Glyphosate (rushes, Californian thistle, Fescue)
 Tordon Max (Californian thistle, Ragwort)
 1 gram : 1 litre
 1 : 20 to 1 : 10
 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.

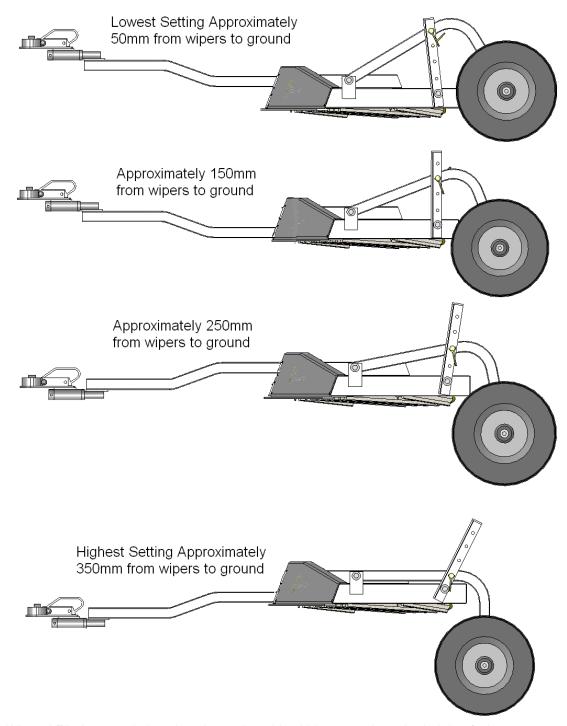
If a solution has been left standing for more than two hours stir it, or if a tank agitation system is available, turn it on.

#### **CALIBRATION**

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

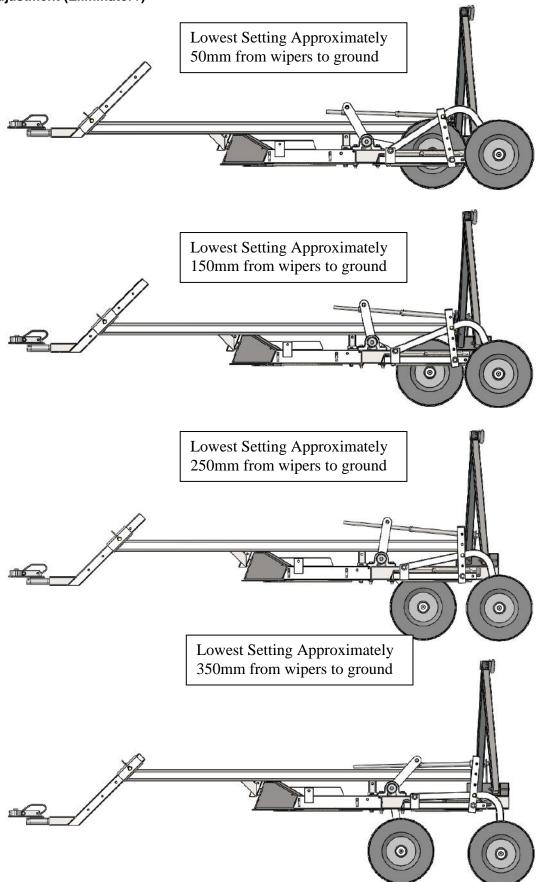
Run the wiper over the weeds and check that the height is suitable. Set the wiper as low as possible without running the risk of causing damage to the pasture, crop or frame. Whilst the Eliminator has been designed to withstand ground strikes, it should not be set so low that ground strikes re occur.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

#### **Height Adjustment (Eliminator+)**



#### **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)
4 420 mal/malinista (4.4.1/h.m)	

4 - 430 ml/minute (14 l/ha)

#### High Rates (L Flow Plate #55)

1 - 240 ml/minute (8.5 l/ha)	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)
4 700 mal/malmosta (OF F 1/h m)	

4 - 786 ml/minute (25.5 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+

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
	Blocked flow plate or filter at check valve on hose to wiper	Clean
	4. Kinked hose	Straighten
Insufficient flow from one carpet	Blocked soak line under carpet	Remove carpet and check. Replace or clean
	Blocked hose tail connector at base of yellow carpet pipe	Flush and wash down carpets
Uneven wetting along a carpet.	Partial blocking of soak line under carpet.	Remove carpet and check soak line.
	2. Carpets not cleaned properly	Replace or clean Flush and wash down carpets
Too much flow from	Pump operating for too long	Reduce pumping interval
carpets	2. Flow plates incorrect	Check and correct
High initial flow from carpets when pump turns on	1.Blocked flow plate or filter at check valve on the by-pass hose	Clean
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	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 power is applied	Battery cable connected incorrectly	Check battery connections and reverse if required

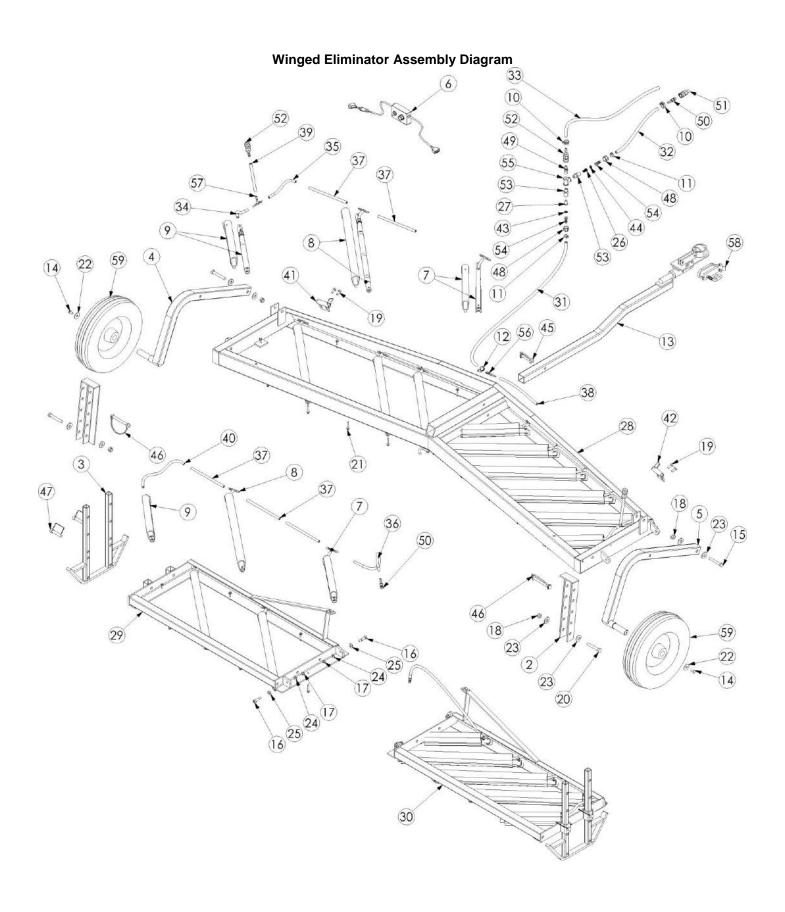
# WARNING

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

# **EXPLODED PARTS DIAGRAM - ELIMINATOR** Replacement Carpet Only: Short Carpet – 1700-0300 Carpet-Eliminator-300MM Long Carpet – 1700-0530 Carpet-Eliminator-530MM

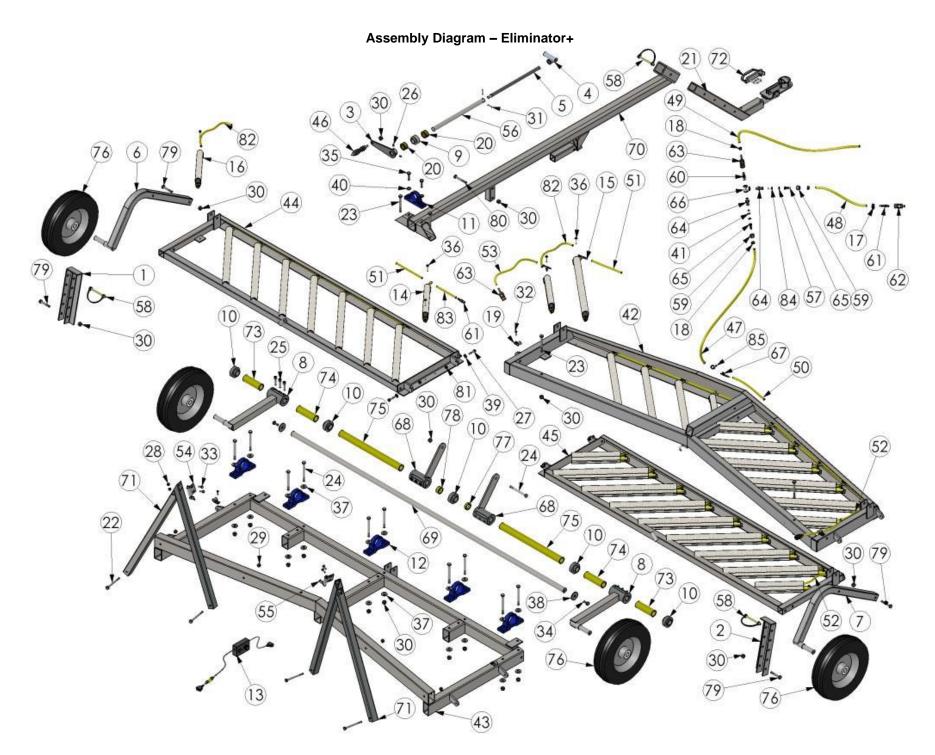
#### **PARTS LIST - ELIMINATOR**

ITEM NO.   QTY.   Part No   DESCRIPTION	
2         1         1082-2400         Axle-Eliminator G2-LH-ZP           3         1         1082-2401         Axle-Eliminator G2-RH-ZP           4         2         6100-4800         Pin-Locking-11x100mm-ZP           5         4         2840-1290         Fastener-Bolt&Nut-Hex-8.8 Grade-M12x90-Z           6         4         3170-0012         Fastener-Nut-Nyloc-M12-ZP           7         2         9200-7500         Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Serie           8         2         2840-0816         Fastener-Bolt&Nut-Hex-8.8 Grade-M8x16-Z           9         2         3310-3008         Fastener-Washer-Flat-Fender-M8x32x1.5-ZI           10         1         2550-2300         Drawbar-Eliminator-ZP           11         1         8800-3800         Tow-Coupling-Handle-Double Ended-1 7/8" x 50           12         1         6100-4780         Pin-Locking-10x57mm-ZP           13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Inner-300r           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-Outer-300           16         24         3300-6100         Fastener-Niper Assembly-Eliminator-Outer-300	
3         1         1082-2401         Axle-Eliminator G2-RH-ZP           4         2         6100-4800         Pin-Locking-11x100mm-ZP           5         4         2840-1290         Fastener-Bolt & Nut-Hex-8.8 Grade-M12x90-2           6         4         3170-0012         Fastener-Bolt & Nut-Hex-8.8 Grade-M8x16-Z           7         2         9200-7500         Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Serie           8         2         2840-0816         Fastener-Bolt & Nut-Hex-8.8 Grade-M8x16-Z           9         2         3310-3008         Fastener-Washer-Flat-Fender-M8x32x1.5-ZI           10         1         2550-2300         Drawbar-Eliminator-ZP           11         1         8800-3800         Tow-Coupling-Handle-Double Ended-1 7/8" x 50           12         1         6100-4780         Pin-Locking-10x57mm-ZP           13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Inner-300           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-530mm           16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Del	
4         2         6100-4800         Pin-Locking-11x100mm-ZP           5         4         2840-1290         Fastener-Bolt&Nut-Hex-8.8 Grade-M12x90-7           6         4         3170-0012         Fastener-Bolt&Nut-Hex-8.8 Grade-M12x90-7           7         2         9200-7500         Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Serie           8         2         2840-0816         Fastener-Bolt&Nut-Hex-8.8 Grade-M8x16-Z           9         2         3310-3008         Fastener-Washer-Flat-Fender-M8x32x1.5-ZI           10         1         2550-2300         Drawbar-Eliminator-ZP           11         1         8800-3800         Tow-Coupling-Handle-Double Ended-1 7/8" x 50           12         1         6100-4780         Pin-Locking-10x57mm-ZP           13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Outer-300           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-Outer-300           16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (200           18         1         4100-1006         <	
5         4         2840-1290         Fastener-Bolt&Nut-Hex-8.8 Grade-M12x90-2           6         4         3170-0012         Fastener-Nut-Nyloc-M12-ZP           7         2         9200-7500         Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Serie           8         2         2840-0816         Fastener-Bolt&Nut-Hex-8.8 Grade-M8x16-Z           9         2         3310-3008         Fastener-Washer-Flat-Fender-M8x32x1.5-ZI           10         1         2550-2300         Drawbar-Eliminator-ZP           11         1         8800-3800         Tow-Coupling-Handle-Double Ended-1 7/8" x 50           12         1         6100-4780         Pin-Locking-10x57mm-ZP           13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Jourer-300           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-Soomn           16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (200           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300           19         1         6200-9130	
6         4         3170-0012         Fastener-Nut-Nyloc-M12-ZP           7         2         9200-7500         Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Serie           8         2         2840-0816         Fastener-Bolt&Nut-Hex-8.8 Grade-M8x16-Z           9         2         3310-3008         Fastener-Washer-Flat-Fender-M8x32x1.5-ZI           10         1         2550-2300         Drawbar-Eliminator-ZP           11         1         8800-3800         Tow-Coupling-Handle-Double Ended-1 7/8" x 50           12         1         6100-4780         Pin-Locking-10x57mm-ZP           13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Outer-300           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-Inner-300m           16         24         3300-6100         Fastener-Tek Screw-Hex-12Cx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (220           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (200           19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 Sha	
7         2         9200-7500         Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Serie           8         2         2840-0816         Fastener-Bolt&Nut-Hex-8.8 Grade-M8x16-Z           9         2         3310-3008         Fastener-Washer-Flat-Fender-M8x32x1.5-ZI           10         1         2550-2300         Drawbar-Eliminator-ZP           11         1         8800-3800         Tow-Coupling-Handle-Double Ended-1 7/8" x 50           12         1         6100-4780         Pin-Locking-10x57mm-ZP           13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Inner-300r           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-Inner-300r           16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (200           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300           19         1         6200-9130         Pipe-Fitting-Quick Release-Valve-Sommak Shankx6 Shan	O-ZP
8         2         2840-0816         Fastener-Bolt & Nut-Hex-8.8 Grade-M8x16-Z           9         2         3310-3008         Fastener-Washer-Flat-Fender-M8x32x1.5-ZI           10         1         2550-2300         Drawbar-Eliminator-ZP           11         1         8800-3800         Tow-Coupling-Handle-Double Ended-1 7/8" x 50           12         1         6100-4780         Pin-Locking-10x57mm-ZP           13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Inner-300           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-S30mm           16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (220)           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300)           19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shankx6 Shankx6 Plackage Spray-Delivery-7 Bar-6mm ID-PVC (300)           21         1         6200-7240         Pipe-Fitting-Quick Release-Valve-1/48SPM-Bi           22         1         6200-7240         Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shan </td <td></td>	
9         2         3310-3008         Fastener-Washer-Flat-Fender-M8x32x1.5-ZI           10         1         2550-2300         Drawbar-Eliminator-ZP           11         1         8800-3800         Tow-Coupling-Handle-Double Ended-1 7/8" x 50           12         1         6100-4780         Pin-Locking-10x57mm-ZP           13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Inner-300r           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-Inner-300r           16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (200           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300           19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shankx6 Shankx-Plc           20         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300           21         1         6200-7240         Pipe-Fitting-Quick Release-Valve-1/4BSPM-Br           22         1         6200-7210         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           23	ies
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11         1         8800-3800         Tow-Coupling-Handle-Double Ended-1 7/8" x 50           12         1         6100-4780         Pin-Locking-10x57mm-ZP           13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Outer-300           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-530mm           16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (200           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300           19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shankx-Plc           20         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300           21         1         6200-7240         Pipe-Fitting-Quick Release-Valve-1/4BSPM-Br           22         1         6200-7210         Pipe-Fitting-Quick Release-Male Connectorx8.5 Sh           23         1         6200-7250         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           25         1         6200-7300         Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straigl	-ZP
12	
12	50mm-ZP
13         2         1700-2300         Carpet-Wiper Assembly-Eliminator-Outer-300           14         2         1700-1300         Carpet-Wiper Assembly-Eliminator-Inner-300r           15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-530mm           16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (220)           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300)           19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 S	
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15         8         1700-1530         Carpet-Wiper Assembly-Eliminator-530mm           16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (220)           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300)           19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 Shan	
16         24         3300-6100         Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threa           17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (2201)           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300)           19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shankx6 Shankx6 Shank-Plc           20         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300)           21         1         6200-7240         Pipe-Fitting-Quick Release-Valve-1/4BSPM-Br           22         1         6200-7210         Pipe-Fitting-Quick Release-Male Connectorx8.5 Shan           23         1         6200-7250         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           25         1         6200-7200         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           25         1         6200-9100         Pipe-Fitting-Reducer-1/4BSPFx1/4	
17         8         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (220)           18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300)           19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shank-Plc           20         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300)           21         1         6200-7240         Pipe-Fitting-Quick Release-Valve-1/4BSPM-Br           22         1         6200-7210         Pipe-Fitting-Quick Release-Male Connectorx8.5 Sh           23         1         6200-7250         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           24         1         6200-7200         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           25         1         6200-9100         Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPFx1/4BSPF-Plc           26         2         6200-7380         Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straigl           27         1         3400-5400         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.037in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS	
18         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300I)           19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shankx6 Shank-Plc           20         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300I)           21         1         6200-7240         Pipe-Fitting-Quick Release-Valve-1/4BSPM-Br           22         1         6200-7210         Pipe-Fitting-Quick Release-Male Connectorx8.5 Shan           23         1         6200-7250         Pipe-Fitting-Quick Release-Wale Connectorx1/4BS           24         1         6200-7200         Pipe-Fitting-Quick Release-Male Connectorx1/4BSPFx1/4	
19         1         6200-9130         Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shankx6 Shankx Shank-Plo           20         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300I)           21         1         6200-7240         Pipe-Fitting-Quick Release-Valve-1/4BSPM-Br           22         1         6200-7210         Pipe-Fitting-Quick Release-Male Connectorx8.5 Sh           23         1         6200-7250         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           24         1         6200-7200         Pipe-Fitting-Quick Release-Male Connectorx1/4BSPFx	
20         1         4100-1006         Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300I)           21         1         6200-7240         Pipe-Fitting-Quick Release-Valve-1/4BSPM-Br           22         1         6200-7210         Pipe-Fitting-Quick Release-Male Connectorx8.5 Sh           23         1         6200-7250         Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shan           24         1         6200-7200         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           25         1         6200-9100         Pipe-Fitting-Reducer-1/4BSPFx1/4BSPFx1/4BSPFx1/4BSPF-Plc           26         2         6200-7380         Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straig           27         1         3400-5400         Filter-Nozzle Tip-50 Mesh-Plastic           28         1         3400-5410         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.037in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-Swivel-Suit Fly Nut-Swiv	
21         1         6200-7240         Pipe-Fitting-Quick Release-Valve-1/4BSPM-Br           22         1         6200-7210         Pipe-Fitting-Quick Release-Male Connectorx8.5 Sh           23         1         6200-7250         Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shan           24         1         6200-7200         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           25         1         6200-9100         Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPFx1/4BSPF-Plc           26         2         6200-7380         Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straigl           27         1         3400-5400         Filter-Nozzle Tip-50 Mesh-Plastic           28         1         3400-5410         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.037in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
22         1         6200-7210         Pipe-Fitting-Quick Release-Male Connectorx8.5 Sh           23         1         6200-7250         Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shan           24         1         6200-7200         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           25         1         6200-9100         Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPFx1/4BSPF-Plc           26         2         6200-7380         Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straig           27         1         3400-5400         Filter-Nozzle Tip-50 Mesh-Plastic           28         1         3400-5410         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.055in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	•
23         1         6200-7250         Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shan           24         1         6200-7200         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           25         1         6200-9100         Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPFx1/4BSPF-Plc           26         2         6200-7380         Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straigl           27         1         3400-5400         Filter-Nozzle Tip-50 Mesh-Plastic           28         1         3400-5410         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.055in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
24         1         6200-7200         Pipe-Fitting-Quick Release-Male Connectorx1/4BS           25         1         6200-9100         Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPFx1/4BSPF-Plc           26         2         6200-7380         Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straigl           27         1         3400-5400         Filter-Nozzle Tip-50 Mesh-Plastic           28         1         3400-5410         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.055in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
25         1         6200-9100         Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPFx1/4BSPF-Plo           26         2         6200-7380         Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straig           27         1         3400-5400         Filter-Nozzle Tip-50 Mesh-Plastic           28         1         3400-5410         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.055in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
26         2         6200-7380         Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straigl           27         1         3400-5400         Filter-Nozzle Tip-50 Mesh-Plastic           28         1         3400-5410         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.055in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
27         1         3400-5400         Filter-Nozzle Tip-50 Mesh-Plastic           28         1         3400-5410         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.055in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
28         1         3400-5410         Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS B           29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.055in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	igni-nasiic
29         1         5300-5100         Nozzle-Plate-Teejet-Orifice-0.063in-SS           30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.055in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	: Rall Plastic
30         1         5300-5000         Nozzle-Plate-Teejet-Orifice-0.055in-SS           31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
31         1         5300-4800         Nozzle-Plate-Teejet-Orifice-0.037in-SS           32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
32         2         6200-8220         Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-           33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
33         2         6200-5550         Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic           34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
34         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           35         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello           36         1         4100-0008         Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
35 1 4100-0008 Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello 36 1 4100-0008 Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
36 1 4100-0008 Hose-Spray-Delivery-40 Bar-8.5mm ID-Yello	
1 3/ 1 2 1 2000-2014 1 Clamp-Hose-Oetiker-Sinale Ear Stepless-14.5<>/.(	
38 2 2000-0013 Clamp-Hose-Herbi-E-Ratchet-13.1<>15.1mm-Blac	
39 1 1500-4300 Cable-Electrical-Loom-Eliminator-Control B	
40 1 3600-1010 Fuse Link-Electrical-Standard Blow-15 Amp-1"x1/4	
41 1 6250-3001 Plug-Electrical-2 Pin-Male-20 Amp-With Cov	
42 1 6250-3000 Plug-Electrical-2 Pin-Female-20 Amp-With Co	Jover
43 2 1018-3920 LH Adjuster-Height-Eliminator-ZP	
44 8 3310-5012 Fastener-Washer-Flat-Heavy-M12x32x3-Ga	<del></del> Galv
45 1 2000-4008 Clamp-Hose-Worm Drive-Jubilee-8mm-Stain	



Item No.	QTY.	e9 part no	e9 description
1	1	1018-3920	Adjuster-Height-Eliminator-LH-ZP
2	1	1018-3921	Adjuster-Height-Eliminator-RH-ZP
3	2	1018-3940	Adjuster-Height-Eliminator WING SKID-GL
4	1	1082-2400	Axle-Eliminator G2-LH-ZP
5	1	1082-2401	Axle-Eliminator G2-RH-ZP
6	1	1500-4300	Cable-Electrical-Loom-Eliminator-Control Box
7	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	1	2840-1075	Fastener-Bolt&Nut-Hex-8.8 Grade-M10x75-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	3	3290-1275	Fastener-Set Screw-Hex-8.8 Grade-M12x75-ZP
21	52	3300-6100	Fastener-Tek Screw-Hex-12Gx40-Hitek-Fully Threaded-ZP
22	2	3310-3008	Fastener-Washer-Flat-Fender-M8x32x1.5-ZP
23	8	3310-5012	Fastener-Washer-Flat-Heavy-M12x32x3-Galv
24	4	3310-6008	Fastener-Washer-Flat-M8-ZP
25	4	3310-6010	Fastener-Washer-Flat-M10-ZP
26	1	3400-5400	Filter-Nozzle Tip-50 Mesh-Plastic
27	1	3400-5410	Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS Ball-Plastic
28	1	3500-7500	Frame-Wiper-Eliminator-Winged-GL
29	1	3500-7600	Frame-Wiper-Eliminator Wing-LH-GL
30	1	3500-7601	Frame-Wiper-Eliminator Wing-RH-GL
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	1	4100-0008	Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow
34	2	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-Yellow
35	2	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-Yellow

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36	1	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-Yellow
37	14	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC
38	1	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300 Long)
39	2	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC
40	2	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC
41	1	4680-2300	Latch-Eliminator Wing-LH-ZP
42	1	4680-2301	Latch-Eliminator Wing-RH-ZP
43	1	5300-4900	Nozzle-Plate-Teejet-Orifice-0.052in-SS
44	1	5300-5100	Nozzle-Plate-Teejet-Orifice-0.063in-SS
45	1	6100-4780	Pin-Locking-10x57mm-ZP
46	2	6100-4800	Pin-Locking-11x100mm-ZP
47	4	6100-4805	Pin-Locking-SQUARE-11x54x40mm-ZP
48	2	6200-5550	Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic
49	1	6200-7200	Pipe-Fitting-Quick Release-Male Connectorx1/4BSPM-Brass
50	3	6200-7210	Pipe-Fitting-Quick Release-Male Connectorx8.5 Shank-Brass
51	1	6200-7240	Pipe-Fitting-Quick Release-Valve-1/4BSPM-Brass
52	3	6200-7250	Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shank-Brass
53	2	6200-7380	Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straight-Plastic
54	2	6200-8220	Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-Plastic
55	1	6200-9100	Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPF-Plastic
56	1	6200-9130	Pipe-Fitting-Tee-6 Shankx6 Shank-Plastic
57	2	6200-9130	Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shank-Plastic
58	1	8800-3800	Tow-Coupling-Handle-Double Ended-1 7/8" x 50mm-ZP
59	2	9200-7500	Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Series



#### Parts List - Eliminator+

Item			
No.	QTY.	e9 part no	e9 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	1	1140-4000	Bearing-Housing-Pillow Block-Drive Axle-Spreaders
12	5	1140-4010	Bearing-Housing-Pillow Block-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	2000-2014	Clamp-Hose-Oetiker-Single Ear Stepless-14.5<>7.0mm-S/S
19	4	2050-5600	Clip-P Type-Bracket-19mm-Steel ZPG
20	2	2150-0025	Collar-Shaft-ID25-ZP
21	1	2550-2310	Drawbar-Wiper-Eliminator+-GL
22	4	2840-1110	Fastener-Bolt&Nut-Hex-8.8 Grade-M10x110-ZP
23	4	2840-1110	Fastener-Bolt&Nut-Hex-8.8 Grade-M12x100-ZP
	11		
24		2840-2120	Fastener-Bolt&Nut-Hex-8.8 Grade-M12x120-ZP
25	12	2895-1045	Fastener-Cap Head-Allen-Screw-12.9 Grade-M10x45-Galv
26	2	3010-5200	Fastener-Grub Screw-Socket Head-3/8x3/8-Stainless
27	4	3077-1025	Fastener-Shoulder Bolt-Cap Head-Socket-M8x10x25-ZP
28	4	3170-0008	Fastener-Nut-Nyloc-M8-ZP
29	4	3170-0010	Fastener-Nut-Nyloc-M10-ZP
30	23	3170-0012	Fastener-Nut-Nyloc-M12-ZP
31	2	3205-0400	Fastener-Pin-Roll-3/16"x1 1/4"-Black Steel
32	4	3290-0620	Fastener-Set Screw - Hex -8.8 Grade-M6x20-ZP
33	4	3290-0820	Fastener-Set Screw-Hex-8.8 Grade-M8x20-ZP
34	2	3290-1225	Fastener-Set Screw-Hex-8.8 Grade-M12x25-ZP
35	2	3290-1240	Fastener-Set Screw-Hex-8.8 Grade-M12x40-ZP
36	60	3300-6100	Fastener-Tek Screw-Hex-12Gx45-Hitek-Fully Threaded-ZP
37	20	3310-5012	Fastener-Washer-Flat-Heavy-M12x32x3-Galv
38	2	3310-5014	Fastener-Washer-Flat-Heavy-M12x50x3-Galv
39	4	3310-6010	Fastener-Washer-Flat-M10-ZP
40	2	3310-6012	Fastener-Washer-Flat-M12-ZP
41	1	3400-5410	Filter-Nozzle-Tip-Incl Check Valve-50Mesh-5PSI-SS Ball-Plastic
42	1	3500-7500	Frame-Wiper-Eliminator-GL
43	1	3500-7810	Frame-Wiper-Eliminator+-GL
44	1	3500-7815	Frame-Wiper-Eliminator+ WING-LH-GL
45	1	3500-7816	Frame-Wiper-Eliminator+ WING-RH-GL
46	1	4050-7900	Handle-Revolving-32 ODx90 Long-Eliminator+
47	1	4100-0008	Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow
48	1	4100-0008	Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow
49	1	4100-0008	Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow
50	1	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300 Long)
51	22	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC
52	2	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC

53	2	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC
54	1	4680-2300	Latch-Eliminator Wing-LH-ZP
55	1	4680-2301	Latch-Eliminator Wing-RH-ZP
56	1	5200-5350	Machined-Housing-Handle Rod-Eliminator+-ZP
57	2	5300-5100	Nozzle-Plate-Teejet-Orifice-0.063in-SS
58	3	6100-4800	Pin-Locking-11x100mm-ZP
59	2	6200-5550	Pipe-Fitting-Nut-Swivel-11/16UNFF-Plastic
60	1	6200-7200	Pipe-Fitting-Quick Release-Male Connectorx1/4BSPM-Brass
61	3	6200-7210	Pipe-Fitting-Quick Release-Male Connectorx8.5 Shank-Brass
62	1	6200-7240	Pipe-Fitting-Quick Release-Valve-1/4BSPM-Brass
63	3	6200-7250	Pipe-Fitting-Quick Release-Valve-Stopx8.5 Shank-Brass
64	2	6200-7380	Pipe-Fitting-Reducer-11/16UNCMx1/4UNFM-Straight-Plastic
65	2	6200-8220	Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-Plastic
66	1	6200-9100	Pipe-Fitting-Tee-1/4BSPFx1/4BSPFx1/4BSPF-Plastic
67	3	6200-9130	Pipe-Fitting-Tee-6 Shankx6 Shankx6 Shank-Plastic
68	2	6900-1000	Quadrant-Wiper-Eliminator+-ZP
69	1	7400-8000	Rod-Suspension-Wiper-Eliminator+
70	1	8190-4100	Spine-Wiper-Eliminator+-GL
71	2	8292-4100	Stay-Wiper-Eliminator+-GL
72	1	8800-3800	Tow-Coupling-Handle-Double Ended-1 78 x 50mm-ZP
73	2	8840-3732	Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE
74	2	8840-3732	Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE
75	2	8840-3732	Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE
76	4	9200-7500	Wheel-Ribbed-350x8-4 Ply-3 Ribs-BW Series
77	1	8840-3732	Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE
78	1	8840-3732	Tube-Gas-Semi Rigid-32mm ID-Yellow-MDPE
79	4	2840-1265	Fastener-Bolt&Nut-Hex-8.8 Grade-M12x65-ZP
80	1	2840-1280	Fastener-Bolt&Nut-Hex-8.8 Grade-M12x80-ZP
81	4	3122-0008	Fastener-Nut-Flanged-Locking-M8-ZPG
82	2	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC (300 Long)
83	3	4100-1006	Hose-Spray-Delivery-7 Bar-6mm ID-PVC
84	1	3400-5400	Filter-Nozzle Tip-50 Mesh-Plastic
85	1	2000-4008	Clamp-Hose-Worm Drive-Jubilee-8mm-Stainless