

Pro-Reel - Traymount

Operator's & Parts Manual



200L - GA4914035

300L - GA4914040

RTV300 WR - GA4908090

RTV300 Pro - GA4908215

400L - GA4914045

600L - GA4914050

800L - GA4914055

400L Twin - GA4914070

600L Twin- GA4914075

800L Twin- GA4914080

1000L Twin- GA4914085



GA8700755 REV 6 DEC 2022

GOLDACRES

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Please note: All information in this operator's manual is based on the latest product information available at the time of printing. The policy of Goldacres is one of continuous improvement and as such, Goldacres reserve the right to alter any specifications and designs without notice and without incurring any obligation regarding such changes. No part of this manual may be reproduced without written permission from Goldacres. All photographs and technical information remain the property of Goldacres.

Introduction

Congratulations on your purchase of a Goldacres sprayer. For more than a quarter of a century Goldacres has supplied Australian farmers with quality, innovative and technologically advanced spraying solutions - equipment designed in Australia for Australian conditions.

Goldacres not only produce Australia's finest range of spraying equipment - we also keenly value the unique relationship we enjoy with owners of our equipment. We are pleased to welcome you as a Goldacres owner and look forward to making your spray applications as efficient as possible.

Please use this comprehensive resource to gain a full understanding of your equipment, and don't hesitate to contact your Goldacres Dealer or Goldacres for further information.

A handwritten signature in blue ink, appearing to read 'Roger Richards', with a large, stylized 'S' at the end.

Roger Richards
General Manager

Safety

General

The following pages outline important safety information. At Goldacres safety is a high priority. These safety and warning instructions **MUST** be followed to ensure the safe operation of your Goldacres equipment.

Explanation of key terms used in this operator's manual are:

DANGER - You will be killed or seriously hurt if you don't follow instructions

WARNING - You can be seriously hurt if you don't follow instructions

CAUTION - You can be hurt if you don't follow instructions

NOTE - Is used to notify people of installation, operation or maintenance information that is important but not hazard related.

The Operator

All operators of this equipment should be adequately trained in the safe operation of this equipment. It is important that all operator's have read and fully understand the operators manual prior to using this equipment.

All new operators should be trained in an area without bystanders or obstructions and become familiar with the sprayer prior to operation.

Safety Precautions

WARNINGS

- Keep clear of overhead obstructions.
- **CRUSH HAZARD** - Keep hands clear of moving parts.
- Any unauthorised modifications to this equipment may affect its function and create a serious safety risk.
- Never attempt to clean parts or nozzles, by blowing with mouth.
- Never attempt to siphon chemicals, or substances, by sucking.
- It is imperative that the vehicle manufacturer's specifications be checked and all instructions for use when transporting be adhered to at all times.

- Care should be taken when transferring liquid into the tank to ensure that the gross weight of the equipment does not exceed the carrying, braking and/or towing capacity of the vehicle to which the equipment is attached as specified by the vehicle manufacturer.

NOTE: 1 LITRE WATER = 1KG.

- Water weighs 1kg per litre, however conversion factors must be used when spraying liquids that are heavier or lighter than water. Example: liquid urea has a density of 1.28 kg/L and will therefore be significantly heavier than water if the tank is filled completely.
- Suitable care should be taken when driving with the equipment attached to the vehicle. Consideration should be given to both the carrying capacity of the vehicle and the gradient of the terrain when determining the speed at which the vehicle can be driven safely.
- Ensure that the maximum speed of the vehicle, when loaded, is within the vehicle manufacturers limitations.
- Ensure equipment is securely fastened, or attached to the vehicle at all times.
- Regularly check the pump mounting bolts. The pump will always vibrate to some degree when operating, and this may work the bolts loose.

CAUTIONS

- A supply of fresh water should be with the equipment at all times.
- Standard polyethylene tanks are not designed for use with diesel fuel or any flammable liquid.
- Do not use this machine in ambient temperatures exceeding 40 degrees Celsius.
- Ensure that all bolts are tightened and secured before operation.
- Area surrounding equipment may become slippery when wet.

Continued over page

NOTES

- Always read and understand the operator's manual prior to operation of this equipment.
- It is the responsibility of the operator to ensure that there are no decals missing from the equipment and that any damaged or missing decals are replaced prior to operation.
- Goldacres equipment ordered or operated, outside the guideline limitations may not be warranted by Goldacres for successful performance. Operators working outside these limitations do so at their own risk, unless specific advice has been sought from and provided by Goldacres in writing.
- Always read and follow the chemical manufacturer's guidelines for safe application as per the chemical label. Particular attention should be given to the recommended target application rate of the chemical being applied as per the chemical label.
- Inspect the equipment thoroughly for damage and wear before operation.
- Flush chemicals from equipment immediately after use.
- Certain chemicals may be unsuitable for use with Goldacres standard plumbing designs. Consult your Goldacres dealer if in doubt.
- Do not operate the equipment while under the influence of any drugs, alcohol or if excessively tired.
- Make sure that the equipment complies with all relevant road regulations when transporting.
- When draining fluids from the equipment use appropriate, leak proof containers. Do not use food or beverage containers as someone may consume the contents by mistake.
- After reading the operator's manual if there is anything that you do not understand please contact your Goldacres dealer.

Safe Chemical Use

The safe use of Ag chemicals with this equipment is the responsibility of the owner/operators. All operators should be trained in the safe use of Ag chemicals. Goldacres suggest that a relevant course is completed by owners/operators prior to operation of this equipment as a spray unit.

Personal Protective Equipment (PPE)

Always wear close fitting clothing and safety equipment designed for the job.

Chemicals can be harmful to humans, appropriate PPE should be used when handling chemicals.

Always refer to the chemical manufacturers label for guidelines on the appropriate PPE to use with the chemicals you are using.

Goldacres also suggest that you read and understand the following Australian standards:

- Australian Standard for Chemical protective clothing AS3765
- Australian Standard for Respiratory protection devices AS1715

Airborne particles

Always stand well clear of equipment during operation. Any spray drift is dangerous and may be hazardous to humans and animals.

Fluids under pressure

Do not disconnect any hoses, nozzles or filters while equipment is operating. Disconnecting these components while under pressure may result in uncontrolled fluid discharge which may be hazardous.

When the repair is complete ensure that all fittings and lines are secured before re-applying pressure.

Continued over page

Cuts, Stabs & Punctures

When Servicing machine, be mindful of sharp edges on parts such as trimmed cable ties, hose clamps, cut reinforced hose and the edges of plates and brackets as they could cause cut, stab or puncture injuries.

Mount Vehicle Safety

- Consult your vehicle operator's manual before mounting this sprayer.
- Do not fit the spray tank to the front of your vehicle.
- Fully read the Owner's Manual before mounting this spray unit to vehicle.
- Before mounting to a vehicle ensure that fitment complies with weight restrictions as specified by vehicle manufacturer.
- Overloading the vehicle, or operating it improperly, may cause an accident, injury or death.
- Do not load the vehicle in excess of the load limit capacity of the vehicle as recommended by the manufacturer.
- Filling the spray tank when fitted to the vehicle will result in changes to the handling and stability of the vehicle.
- Vehicle tyres should be inflated to the manufacturers recommended operating pressures.
- Do not attach other equipment to the vehicle spray tank. This may exceed the vehicle spray tank's designed capacity and function.
- Reduce speed when operating the vehicle spray tank when tank is loaded.
- Allow for greater braking distances when the vehicle spray tank is loaded.
- To reduce possible vehicle instability it is recommended the vehicle be stationary if spot spraying on a slope or hill.
- Ensure the vehicle or vehicle complies with all relevant regulations for use on farm or public roads.
- The weight of the unit significantly increases when filled to the maximum recommended level. Remember: 1 litre of water = 1 kilogram.
- The tank should be empty during

attachment or removal of the tank from the vehicle.

- Do not allow any other person to ride on the vehicle at the same time this vehicle spray tank is fitted.
- Do not allow use of this sprayer by minors.
- Do not use the sprayer in the vicinity of other people or animals.

DANGER: Failure to adhere to these recommendations or follow these rules may result in injury or death to the operator and/or bystanders.

Anyone involved in the use or operation of the vehicle and vehicle spray equipment should be aware of, and trained in appropriate safety recommendations including those contained in this manual.

Safety Decals

Understanding safety decals and their purpose assists in the safe operation of your sprayer. Safety decals are there for your protection and it is the responsibility of the owner operator to replace damaged and/or missing safety decals.

Regularly review safety decals with operators. It is very important to ensure that all new machine components and replacement parts include current hazard identification decals.

Replacement safety decals can be ordered from all Goldacres dealers.



Item No.	Part No.	Description
1	GA8700006	Decal, Pro-Reel Autowind, Remote Control
2	GA5015991	Sticker KEEP HANDS CLEAR
3	GA5064615	Decal 100 mt Pro Reel Decal kit
4	GA5064620	Decal 150 mt Pro Reel Decal Kit



GA8700425 Pro-Reel 200L Tank Decal



GA8700426 Pro-Reel 300L Tank Decal



GA8700427 Pro-Reel 400L Tank Decal



GA8700428 Pro-Reel 600L Tank Decal

GA8700438 Pro-Reel 600L WET	GA5064190 800 WET Water Cartage	GA5064195 1000 WET Water Cartage
600	800	1000
550		
500		900
450	700	
400		800
350	600	
300		700
250	500	
200	400	600
150		500
100	300	
		400
50	200	
		300
		200



GA8700429 Pro-Reel 800L Tank Decal



GA8700441 Pro-Reel 1000L Tank Decal

Warranty

How to make a warranty claim

In the event of a fault or breakdown with your product, that you believe to be a warranty issue, the following steps must be taken.

1. Ensure that you have read the Operator's Manual and gone through the troubleshooting procedure.
2. If you continue to experience problems then please contact your local authorised Goldacres dealer. They will advise the method of warranty service for your product.

Sales documentation and information on delivery and installation must have been submitted before a claim can be requested.

Warranty Duration

Goldacres' standard warranty is 12 months from date of purchase.

Warranty Inclusions

- Chassis
- Steel Boom Components
- Tanks
- Electrical wire and connectors, (non-contaminated)
- Consoles and controllers
- Electrical motors and drivers
- Wheels, tyres and rims
- Pins and bushes*
- Pump housing
- Hydraulics
- Axle frame only
- Shockers and dampeners
- Wire cables
- Springs
- Drive chains*
- Wheel bearings*

*Failure caused by lack of lubrication not covered.

Warranty Exclusions

- Pump diaphragms
- Pump Seals
- Pump check valves

- Pump O-rings
- Filters and filter screens
- Filter O-rings
- Chemical Hoses
- Solenoid Diaphragms
- Hand Gun, lance or wand seals and O-rings
- Consumables, chemicals, fuels
- Items controlled by or fitted to Non Genuine parts or devices
- Contamination or corrosion of components
- Hose reel seal and O-rings
- Pressurised sprayer seals and O-rings
- Belts, couplings
- Adjustment of components
- Brake pads and components
- Globes / Bulbs
- Fuses
- Oil / fluids / filters (Unless contaminated or lost due to a warrantable failure)
- Boom break away tips
- Boom break away hinges
- Boom protectors
- Nozzles
- Nozzle Bodies
- Nozzle Body Brackets
- Nozzle Diaphragms and seals
- Wiper Blades
- Skid plates
- Wear plates
- Damaged items
- Worn or wearing items

Goldacres Warranty Statement

This warranty is the only warranty applicable to Goldacres new products (Products) and to the maximum extent as permitted by law, is expressly in lieu of any other conditions or warranties expressed or implied in relation to the Product.

In Australia, Goldacres Products come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This Warranty gives you additional protection for your Goldacres product and identifies a preferred approach to resolving warranty claims which will be the quickest and simplest for all parties subject to the exclusions, terms and conditions below.

Goldacres warrants its authorized Dealers who in turn warrants the original purchaser (Owner) that each new Goldacres Product will be free from proven defect in materials and workmanship for twelve (12) months from the date of delivery to the first owner according to conditions outlined herein.

Subject only to legislative obligations to the contrary, Goldacres shall not be liable for incidental or consequential damage resulting from ownership or use of a Product.

Goldacres does not authorize any person to create for it any other obligation or liability in connection with these products.

The repair of the defective Product qualifying under this warranty will be performed without charge for labour and parts by any authorized Goldacres service outlet within a reasonable time following the delivery of the Product, at the cost of the owner, to the service outlet / place of business advised

Goldacres in its absolute discretion may choose to pay the cost of replacement or repair of the product.

If the Product will be repaired or replaced, using parts as supplied by Goldacres, repair may include, at Goldacres discretion, the replacement of parts with functionally equivalent remanufactured, reconditioned or new parts.

Goldacres may request failed parts to be returned to the factory.

Conditions of Warranty Coverage

The warranty covers only conditions resulting directly from defects in workmanship or materials used under normal use and service conditions.

The Warranty is not transferable.

The owner is responsible for the performance of regular maintenance and service as specified in the owner's / operators manual applicable to the product. Failure to follow regular maintenance as

advised may invalidate the warranty.

The owner must provide the Goldacres Dealer with prompt written notice of the defect (within 14 days of it occurring) and allow reasonable time for repair and/or replacement.

Goldacres warranty cover excludes:

- Claims resulting from misuse, use of incompatible chemical or fluids, exceeding the Product's specifications including overloading, impact damage, negligence, accidental damage or failure to perform recommended service or service intervals or use the Product with good care.
- Failure due to faulty or inadequate electrical sources of power. 12 volt power sources must be checked for suitability to operate the product.
- The time taken to remove and re-install warranted parts, products or components fitted to other than Goldacres brand products will not be covered by Goldacres Warranty. Only labour and parts directly attributable to the repair of the Goldacres unit is covered.
- The cleaning of parts or products before or after the warranty repair. Cleaning time is considered a customer expense.
- Any Goldacres Product which has been repaired by other than an authorized Goldacres dealer in a way which, in the sole and absolute judgment of Goldacres, adversely affects its performance or reliability.
- The replacement of maintenance items such as diaphragms, batteries, belts, etc.
- Loss of time, inconvenience, loss of use of the product, liability to third parties or any other consequential damages including damage to crops, profits or revenue, other commercial losses inconvenience or cost of rental or replacement equipment.
- Incidental costs associated with a warranty repair including any travel costs, out of hours labour charges, transportation costs, freight costs or any communications costs.
- Goldacres products purchased at auction or in used condition.

Procedure for claiming:

Claims must be made through a Goldacres Dealer. To make a claim under this Warranty, you should

- Contact your local Goldacres Dealer,
- Phone 1300 301 853 to locate a Goldacres Dealer.

Owners returning products to a Goldacres Dealer will require the original Dealer tax invoice, a copy of the tax invoice or delivery docket and any instruction manuals, information booklets or guides that were shipped with the Product.

Goldacres Terms & Conditions

1. These terms and conditions apply to all goods and/or services supplied by us to you. You are agreeing to them by placing an order with us.

2. Unless you have a previously approved account with us you must pay us the purchase price for the goods and/or services we supply to you, together with any other applicable fees or charges immediately on delivery or collection of the goods, or if ordered online or by phone on the placement of your order. All repairs or servicing must be paid for before we will release the goods to you. If you do have an account with us the separate terms of that account apply.

3. Time is of the essence for all payments required under these conditions.

4. Unless specifically stated otherwise, all prices which we quote or estimate to you are inclusive of GST for goods supplied within Australia and exclusive of GST for goods exported outside of Australia. If GST is payable on a Taxable Supply made by us to you, then you must also pay the amount of GST payable in respect of that Taxable Supply as an additional payment.

5. You must pay interest on any amounts not paid by the due date at a rate 2% higher than the rate for the time being fixed under section 2 of the Penalty Interest Rates Act 1983 (Victoria) as at the date the amount became due.

6. Property in goods supplied (and in any goods which we may have previously supplied to you) remains with us until we have been paid in full for all amounts you owe us including payment for the goods and any applicable interest, fees and charges, and until then:

(a) you hold the goods only as a bailee and have no right to claim any other interest in the goods, including any security for any liquidated or unliquidated debt or obligation that we owe you, or any lien over the goods;

(b) we may enter and recover possession of the goods from any site owned, possessed or controlled by you and you grant us an irrevocable licence to do so;

(c) you must not deliver or on-supply any of the goods (nor any document of title to them) to any person, but if you do then you hold the proceeds of the on-supply of the goods on trust for us and must pay the amount to us immediately when received;

(d) you must not allow any person to have or acquire any security interest in the goods nor create any absolute or defeasible interest in the goods in relation to any third party except as we may authorise;

(e) you must insure the goods for their full insurable or replaceable value (whichever is higher) and provide us with details of the insurance if we request it;

(f) you must not remove, deface or obliterate any identifying mark or number on any of the goods;

(g) your right to possession of the goods ceases if we recall or recover the goods, or if you become insolvent, you enter into voluntary or involuntary administration or receivership, or a petition is filed for your bankruptcy or winding up.

You further agree:

(h) that the retention of title under this clause is a security interest within the meaning of the Personal Property Securities Act 2009 (Cth) ("PPSA");

(i) to grant us a purchase money security interest (as that term is defined in the PPSA) in relation to the goods;

(j) to contract out of all of your existing and future rights under the provisions referred to in paragraphs (a) through to (r) of section 115(1) of the PPSA, to the full extent permitted;

(k) to sign any documents or do any things which we may reasonably require to enable us to register a financing statement or financing change statement on the register (as defined in the PPSA);

(l) to pay any costs we incur in registering and maintaining a financing statement (including registering a financing change statement) and enforcing the security interest created under these terms and conditions.

7. Risk in the goods passes to you upon their delivery to or collection by you.

8. You hereby indemnify us and our employees, directors, contractors and agents against, and release us and them from, any loss (including reasonable legal costs and expenses) or liability incurred by us and/or them arising from any claim, demand, suit, action or proceeding by any person against us and/or them where such loss or liability arose directly or indirectly from or in connection with any breach of these terms and conditions or from use of the goods and/or services unless such liability is directly caused by the negligence or default of the person indemnified.

9. You, or anyone on your behalf must not, and you must take steps to ensure that your employees, agents and contractors do not, nor assist anyone else to:

(a) copy, memorise, reproduce, misappropriate or reverse engineer the whole or any part of the goods

(b) challenge, contest or oppose any of our intellectual property rights

(c) use any name or logo associated with the goods other than as we authorise you

(d) divulge our confidential information to any person or use it for your own benefit except as we have expressly authorised or as required by law.

10. Any specifications, drawings, details, statistics or performance figures we may have given you about the goods and/or services are only estimates and any deviation does not entitle you to make any claim against us. Any sample is provided only to indicate the general nature of the product, and we do not warrant that goods supplied will exactly correspond with any sample or with any previous or future goods supplied.

11. Except as stated in any separate written warranty we may provide you with the goods or a quote, under no circumstances will we have any liability to replace or repair defects in the goods where:

(a) the defects have not arisen solely from faulty materials supplied by us or faulty workmanship by us;

(b) the goods have received maltreatment, inattention or interference or have been used, applied, packaged or stored other than in accordance with our instructions and recommendations;

(c) products not manufactured by or approved by us have been used with the goods.

12. Except as provided in these conditions, all express and implied warranties guarantees and conditions under statute or general law as to merchantability, description, quality, suitability or fitness of the goods for any purpose or as to design, assembly, installation, materials or workmanship or otherwise are expressly excluded. We are not liable for physical or financial injury, loss or damage or for consequential loss or damage of any kind arising out of the application, supply, layout, assembly, installation or operation of the goods or arising out of our negligence or in any way whatsoever. The exceptions in clause (12) extend to any Third Party Accessories installed in the goods.

13. If any condition or warranty is implied into this agreement under the Competition and Consumer Act (2010) (Cth) or any equivalent State or Territory legislation and cannot be excluded, then our liability is limited to one or more of the following:

(a) in the case of goods, the replacement of the goods or the supply of equivalent goods, the repair of the goods, the payment of the cost of replacing the goods or of acquiring equivalent goods, or the payment of the cost of having the goods repaired;

(b) in the case of services, the supplying of the services again, or the payment of the cost of having the services supplied again.

14. Nothing in these conditions is to be read or applied so as to exclude, restrict or modify or have the effect of excluding, restricting or modifying any condition, warranty, guarantee, right or remedy implied by law and which by law cannot be excluded, restricted or modified.

15. Any quotes on pricing provided by us are consistent with the prevailing market at the time of quotation, including considerations as to rates of freight, insurance, customs, duties, exchange, shipping expenses, sorting and stacking charges, cartage, cost of materials and other charges affecting the cost of production prevailing at that date.

16. Any increases in the quote price occurring either before or during the agreement, shall be to your account.

17. Our quotations are open for acceptance within the period stated therein. If no period is stated, our quotations are open for acceptance for (14) fourteen days from the date the quote was given.

18. All prices listed in our quotations and product catalogue are subject to change or alteration without notice.

19. Unless we otherwise agree in writing we accept credit card or eftpos payments only...

20. We do not accept payment by cheque unless we have previously agreed in writing to do so.

21. Any goods you deliver to us must be free of any chemicals. If you deliver goods that are not free of chemicals, you must pay any costs incurred by us including the cost of our own staff in removing and disposing of the chemicals and cleaning the goods.

22. If after 28 days of notifying you that your goods are ready for delivery we have received no communication from you, we retain any rights under the Australian Consumer Law and Fair Trading Act 2012 (Vic) to sell the goods to recover the value of any outstanding debt you may owe us.

23. You are responsible for backing up any Data that you, or your agent, may install on the goods. If the Data is wiped, corrupted, or lost, we are not liable (whether we are negligent or otherwise) for any damage that may result from that Data being wiped, corrupted or lost.

24. Before you use any of our goods you must check, and if necessary adjust, all settings to ensure the goods are properly calibrated.

25. We are not liable to you for any failure by us to perform any of our obligations under this agreement caused by an impediment or circumstance beyond our control.

26. In these terms and conditions,

(a) "we", "us" or "our" means the entity within the Goldacres Group from which you purchase goods and/or services, including, but not limited to:

i. Goldacres Trading Pty Ltd ACN 061 306 732; and

ii. Goldacres Sprayer Centre Pty Ltd ACN 639 231 520

(b) "you" or "your" means the individual or company that purchases goods and/or services from us.

(c) "our confidential information" includes all of our secrets, ideas, know how, concepts, information, copyright, computer programs, manuals, precedents whether in writing or in any other form and all other information relating to us or our affairs, businesses, sales, marketing or promotional information, and any information about the ingredients, mix, make-up or manufacturing process of the goods

(d) "goods" includes any associated services except where the context does not permit.

(e) "Third Party Accessories" includes anything incorporated in the goods that is manufactured and supplied to us by a third party.

(f) "Data" includes any information capable of being installed and/or stored on an electronic device.

End _____

General Information & Specifications

General

The tray mount sprayer is ideal for small acreage and hard to get areas. The Pro-Reel Traymounts feature engine driven diaphragm pump.

Our tray mount range are durable with a steel frame and our tanks are industrial grade UV protected polyethylene. Our range can be fitted with a host of booms and other handy options to make your spraying tasks easier.

Know Your Sprayer

Getting to know your sprayer prior to operation is crucial in the safe and efficient operation of this equipment. Take the time to familiarise yourself with all the standard and optional components fitted to your sprayer, not only do you need to know where key components are located on your machine you need to become competent in the correct operation of these components prior to spraying operation.

It is also important to become familiar with common spraying methods and common spraying terms prior to using this sprayer for the first time.

Chassis

The chassis is an all steel construction. The chassis is shot blasted, primed and then protected by the Goldacres paint process for excellent chemical resistance and durability.

Tank

All tanks are constructed from UV resistant polyethylene. Polyethylene tanks have a very high chemical resistance.

Due to the rotomoulding process, there can be a variance in the overall dimensions of the tank which in turn results in variations to the tank capacity. For this reason, calibration markings should be used as a guide only.

Filtration

Filtration is a critical part of the sprayer's performance.

A suction filter between the tank and the pump handles filtration. It is important that the filter is cleaned out regularly.

Pump

The pump is critical to any sprayer performance. Correct operation and maintenance of the pump will ensure the sprayer is able to perform to its capabilities.

Always flush pump with clean water after every use. Prolonged chemical contact can severely damage valves, diaphragms and seals.

Do not leave water in pump if sprayer is to be left in a cold environment. The water may freeze and cause damage to pump. Empty pump of all water and cover the pump to ensure this situation does not arise. If this has not been done, and there is a possibility there may be frozen water in the pump, wait until any ice has thawed before using the pump.

Machine limitations

All Goldacres equipment is subject to operating limitations, it is the operator's responsibility to ensure that this equipment is being operated within these limitations and appropriately to the operating conditions at hand.

Do NOT exceed the safe working pressure of this product (250 PSI)

Paint Colours

Steel work: G13 Dark Green

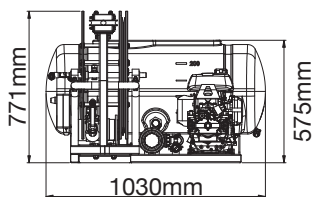
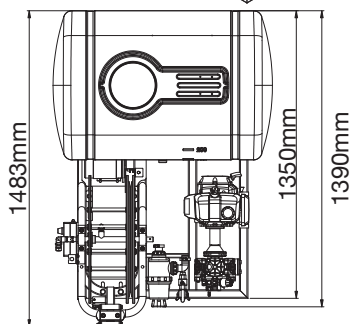
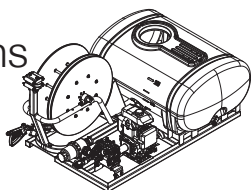
Identification

When ordering parts or requesting service information for your sprayer, it is important to quote the serial number and the purchase date of your machine. This will assist with receiving the most accurate information. The location of the stamped ID plate is shown below.

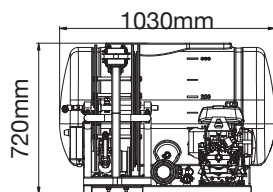
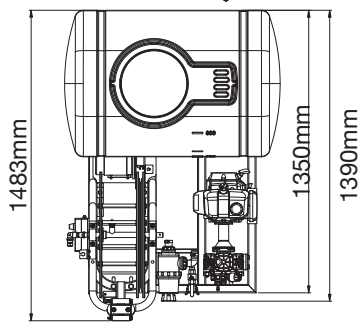
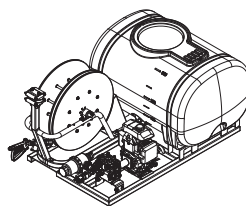


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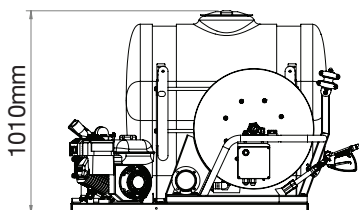
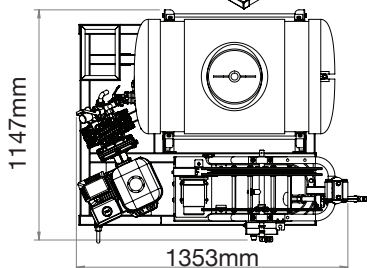
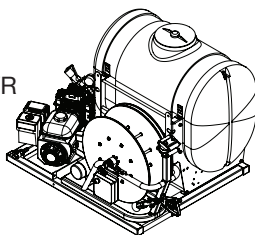
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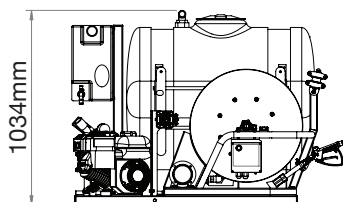
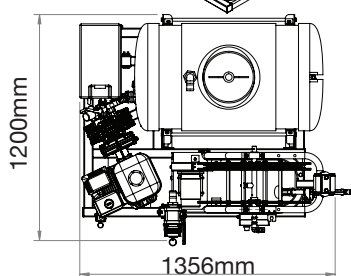
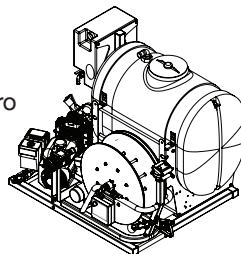
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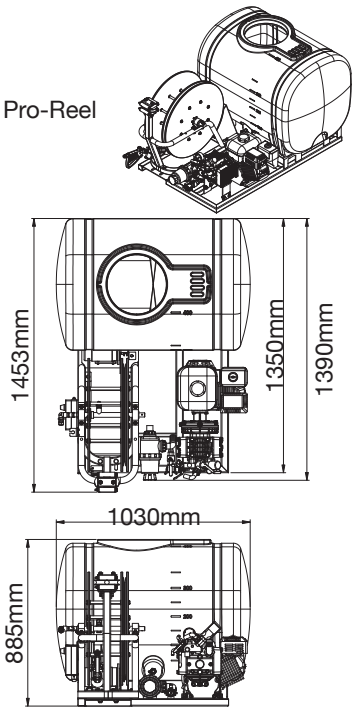
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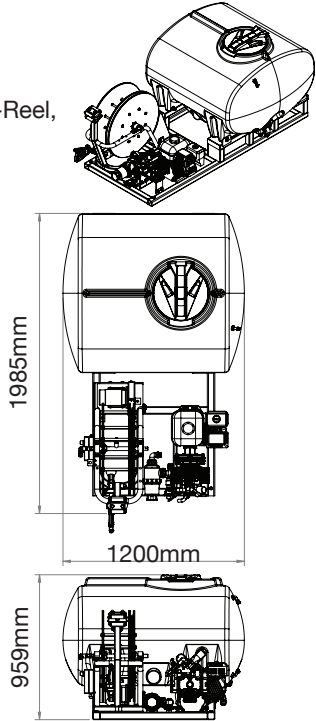
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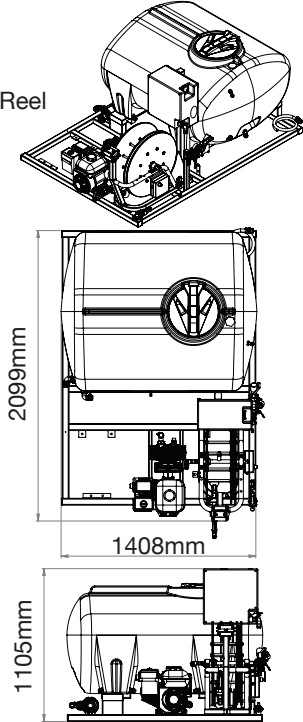
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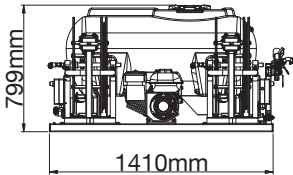
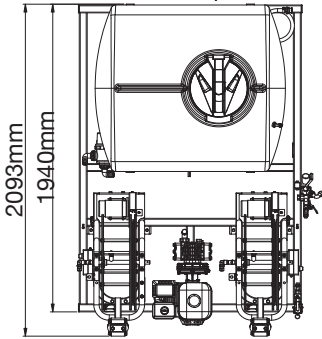
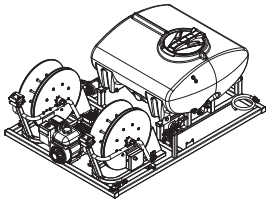
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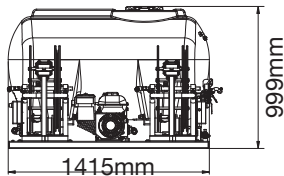
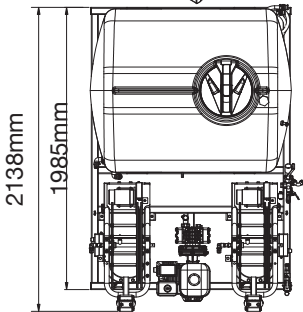
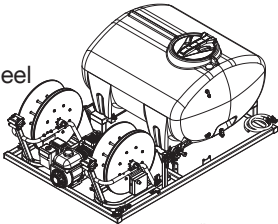
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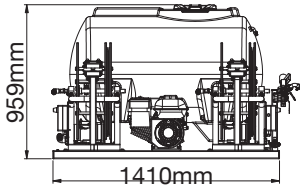
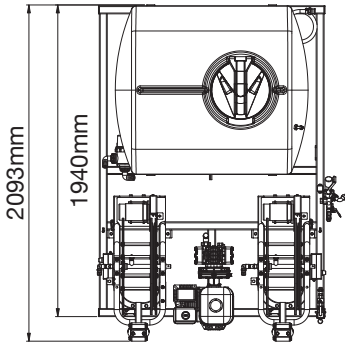
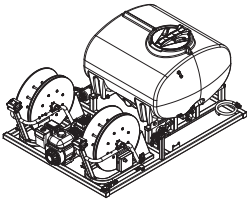
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Twin



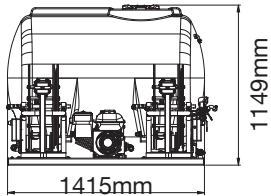
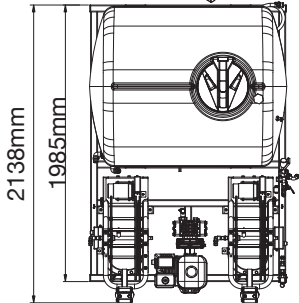
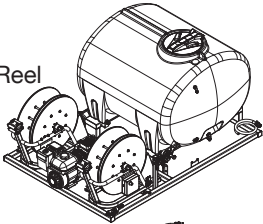
800L Pro-Reel
Twin



600L Pro-Reel
Twin



1000L Pro-Reel
Twin



Key Features



Number	Description
1	Main Tank
2	Control Valve
3	Pressure Adjustment
4	Main Tank Lid
5	100m Pro-Reel

Number	Description
6	Main Tank Drain
7	Suction Filter (not shown)
8	Pump & Motor
9	Wet Sight Tube

Parts Ordering

When ordering parts from your Goldacres dealer, please quote:

Serial No

Part no required

Part description

Quantity required

When returning parts to Goldacres, or a Goldacres dealer, for service or repair all parts MUST be cleaned thoroughly before sending them. Goldacres cannot expose technicians to the many potentially hazardous pesticides and substances that are in use.

NOTE:

Please ensure that all parts are clearly labelled with the owner's details, and a brief description of the fault. Goldacres is not liable for the return of any goods to Goldacres or a Goldacres Dealer. The goods must be returned to the point of sale. The customer will be responsible for any cost incurred by a Goldacres appointed person travelling to any site outside the point of sale.

Genuine Goldacres parts only should be used on Goldacres equipment.

Sprayer Transport

Make sure the vehicle has sufficient lifting and braking capacity to carry the sprayer.

All relevant transport regulations must be adhered to when transporting the sprayer i.e. speed regulations, oversize signs, flashing light, etc. It is the operator's responsibility to know the relevant regulations. Make sure the sprayer is securely attached to the vehicle as shown below.

CAUTION: Take care when reversing the vehicle with the sprayer attached. If driver visibility is restricted use another adult, with a clear view to the rear of the sprayer, to give reversing directions.

CAUTION: It is the operator's responsibility to know the tare weight and gross weight of the sprayer.

Contact Goldacres dealer to ascertain a more precise tare weight for your sprayer if unsure. If any alterations are made to the sprayer, it is the operator's responsibility to know the tare weight and the gross weight of the modified sprayer at all times.

Vehicle Mounting

The Traymount sprayers have been designed for carrying by a suitably rated vehicle.

WARNING: Read and understand the vehicle mounting safety section at the beginning of this manual.

1. Remove from pallet (if attached) and position on a solid, flat surface.
2. Use a forklift, or other suitably rated lifting device, to lift the sprayer to a height suitable for the vehicle. Use support legs to fix the unit at this height.
3. Mount the Tray Mount to your vehicle.

Use the reverse of the procedure above to remove the Tray Mount from the vehicle.

First Time Start Up

CAUTION: Before using this equipment with a chemical mix, read and understand, the instructions on the chemical label. A first time start up procedure should be carried out as a water test only without any chemical present in the tank.

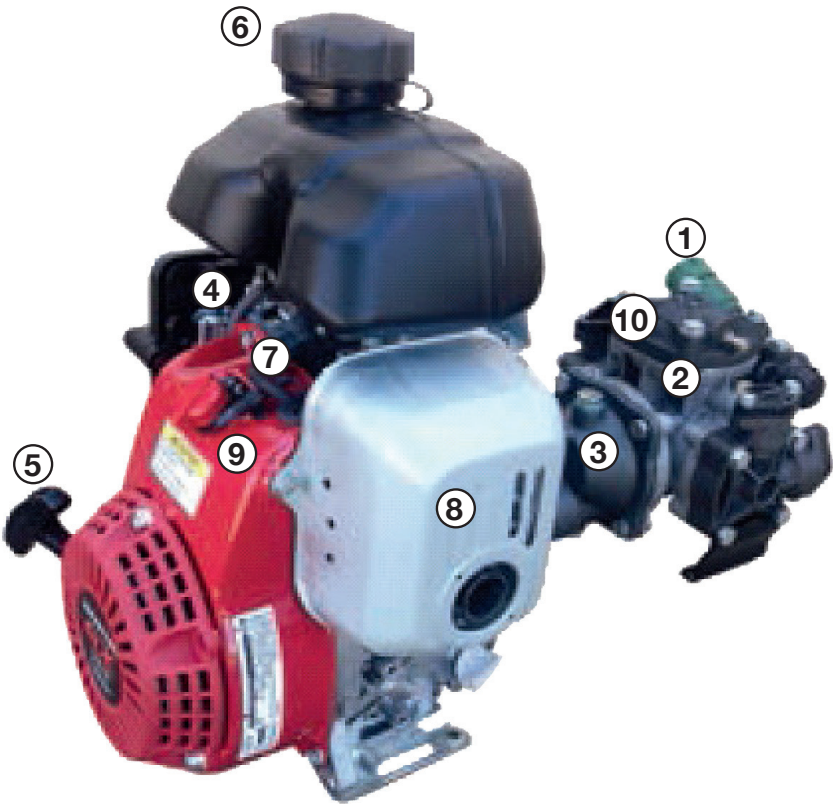
1. Inspect the sprayer to ensure there is no damage or wear which could lead to injury, further damage or reduce its performance.
2. Check all bolts and nuts to make sure they are tight and secure.
3. Carry out scheduled lubrication.
4. Make sure the sprayer is securely attached to the vehicle
6. Ensure all filters and nozzles are clean.
7. Fill main tank with approximately 10% of total tank volume of fresh water.
8. Move the bypass unloader lever on the pressure control unit outwards to allow the engine to start with no load.
9. Start the engine at the lowest revs possible and then gradually increase revs until the pump reaches your desired operating speed.

IMPORTANT: The reduction gearbox operates at 6:1 ratio from engine to pump. The spray pump speed should not exceed 540 RPM. Engine speed should not exceed 3250 RPM.

10. Move the bypass unloader lever inwards to allow spray pressure to reach the gunjet. Ensure that the spray gun outlet valve on the pressure control unit is open.
11. Check spray gun operation. If there are irregularities, clean the nozzle or tighten fittings as necessary.
12. Check all other components are operating correctly and make any adjustments as necessary.

NOTE: For optimal sprayer set-up, the operator needs to be aware of the correct nozzle and correct speed at which to travel when spraying. For this information, refer to the TeeJet catalogue and your chemical manufacturer's information for determining appropriate spray rates or consult an agronomist for further help.

Honda GX200 & Iota 20 Pump



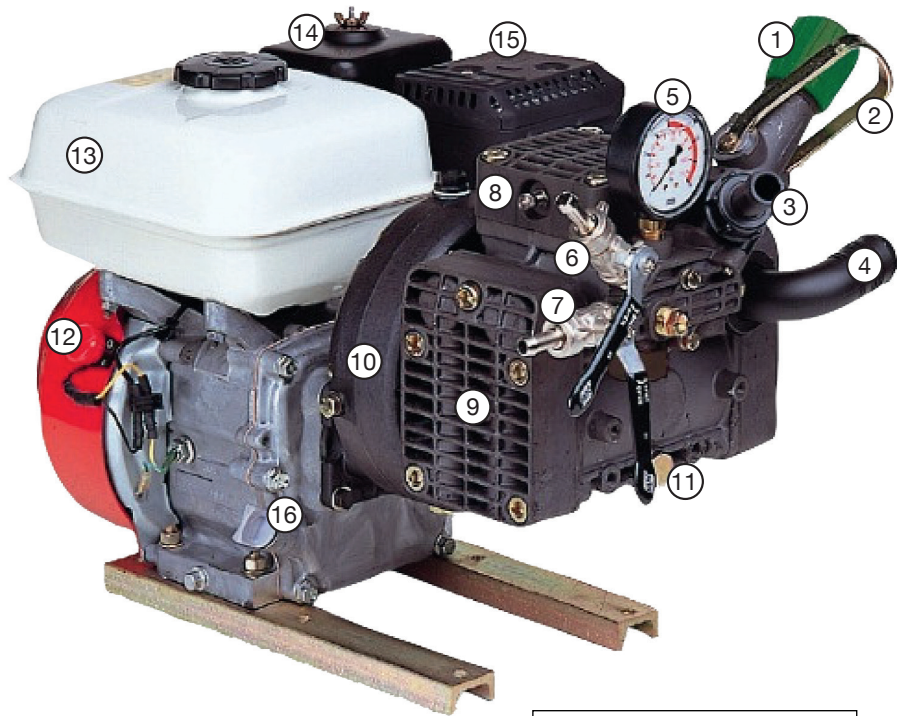
Key Features

Number	Description
1	Control valve
2	Pump
3	Gearbox
4	Choke
5	Pull cord
6	Fuel cap
7	Spark plug
8	Muffler
9	On/Off switch
10	Air damper

- 3 HP Honda GX100 Engine
- 6:1 Reduction Gearbox
- 20 L/min @ 540 RPM
- 290 PSI / 20 Bar Maximum

Part No.	Description
GA5023895	3hp GX100 engine
GA5077059	UDOR engine / pump reduction box to suit a GX100 Honda engine with a 5/8" shaft
IOTA20	Udor Iota20 pump

Honda GX200 & Delta 40 Pump



Part No.	Description
GA5023085	6.5hp GX200 engine
GA5072295	Reduction Gearbox, Ratio 6:1, S160-3/4 GR, Suit Delta 40 GR
GA5077771	Kappa 40 VA Pump

- 6.5 HP Honda GX200 Engine
- 6:1 Reduction Gearbox
- 2 Diaphragms
- 40 L/min @ 540 RPM
- 560 PSI / 39 Bar Maximum

Key Features

Number	Description
1	Relief valve adjuster
2	Bypass unloader lever
3	Bypass outlet back to spray tank
4	Inlet from spray tank
5	Spray pressure gauge
6	Spray pressure outlet 1
7	Spray pressure outlet 2
8	Spray pump air damper

Number	Description
9	Spray pump diaphragm housing
10	Reduction gearbox
11	Spray pump oil drain plug
12	On / Off switch
13	Fuel tank
14	Air cleaner
15	Exhaust muffler
16	Engine oil cap / Dipstick

Engine

The Traymount sprayers are fitted with a Honda GX200 motor as standard. It may be optioned with an electric starter. This section provides a basic overview of motor features and operation only. For detailed safety, operating and maintenance instructions specific to this motor consult the Honda owner's manual supplied or find a copy online.

Engine Safety

- Understand the of all controls and learn how to stop the engine quickly in case of emergency.
- Do not allow children to operate the engine. Keep children and pets away from the area of operation.
- Your engine's exhaust emits poisonous carbon monoxide. Do not run the engine without adequate ventilation, and never run the engine indoors.
- The engine and exhaust become very hot during operation. Keep engine away from flammable materials and do not place anything on engine while it is running.

Preoperational Safety Check

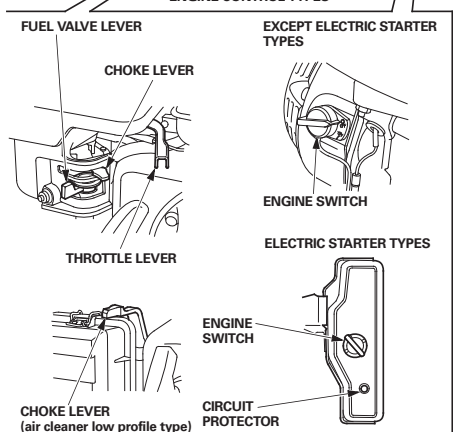
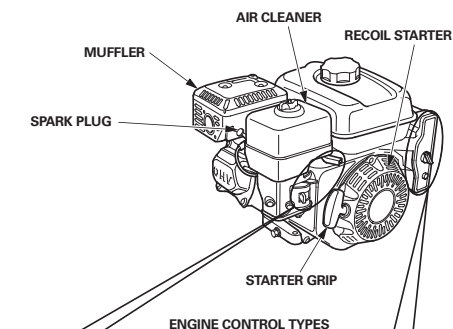
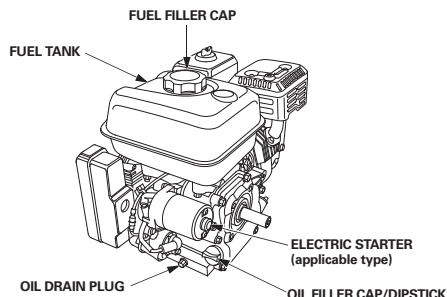
1. Look around the underside of the engine for signs of any oil or fuel leaks.
2. Remove any excessive dirt or debris, especially around the muffler and recoil starter.
3. Look for signs of damage.
4. Check that all shields are in place, and that all nuts, bolts and screws are tightened.

Preoperational Maintenance Check

1. Check engine oil level. Running with low oil can cause damage.

Where fitted, the oil alert system will automatically stop the engine before the oil level becomes critically low.

2. Check reduction gearbox oil level. Sufficient oil level is essential to maximise gearbox life.
3. Check air filter element and clean or replace as necessary to allow clear airflow to the carburetor.

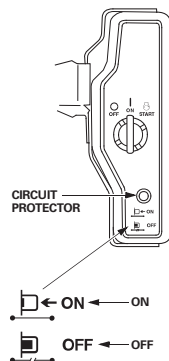


Circuit Protector

If the motor has been optioned with electric start, then it will also have a circuit protector fitted which protects the battery charging circuit. A short circuit, or a battery connected with reverse polarity, will trip the circuit protector.

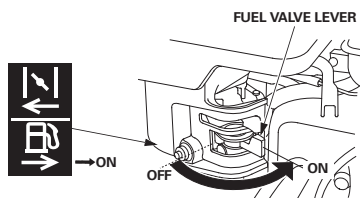
The green indicator inside the circuit protector will pop out to show that the circuit protector has switched off. If this occurs, determine the cause of the problem, and correct it before resetting the circuit protector.

Push the circuit protector button to reset.

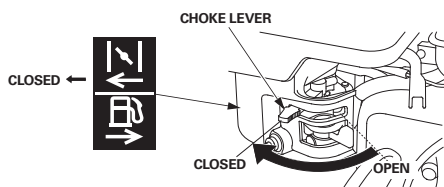


Starting Engine

1. Move the fuel valve lever to the ON position.

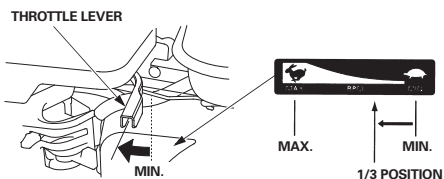


2. If the engine is cold, move the choke lever to the CLOSED position.

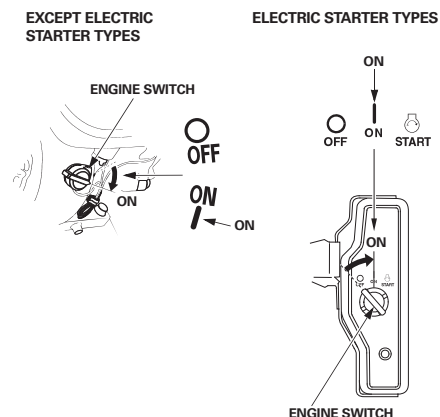


If restarting a warm engine, leave the choke lever in the OPEN position.

3. Move the throttle lever approximately 1/3 of the way from the MIN. position.



4. Turn the engine switch to the ON position.

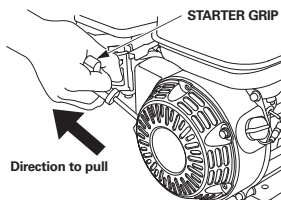


1. Operate the starter:

RECOIL STARTER

- Pull the starter grip lightly until you feel resistance, then pull briskly in the direction of the arrow as shown below. Return the starter grip gently.

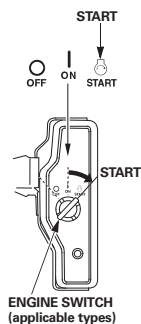
NOTE: Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.



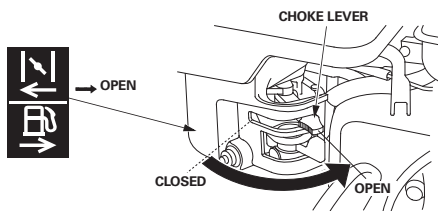
ELECTRIC STARTER

- Turn the key to the START position, and hold it there until the engine starts.
- When it starts, release the key, allowing it to return to the ON position.

NOTE: Using the starter for longer than 5 seconds at a time will overheat the motor and can damage it. This type of overheating is not covered under warranty. If the engine fails to start within 5 seconds, release the key, and wait at least 10 seconds before trying the starter again.



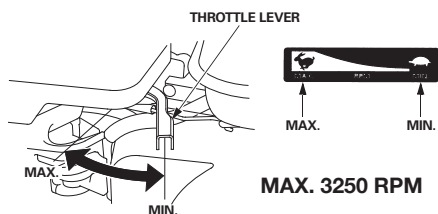
2. If the choke lever was moved to the CLOSED position to start the engine, gradually move it to the OPEN position as the engine warms up.



Setting Engine Speed

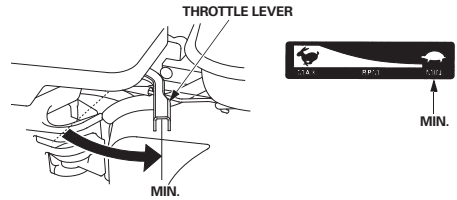
Move the throttle lever to somewhere between the MAX. and MIN. position to set desired engine speed.

IMPORTANT: The reduction gearbox operates at a 6:1 ratio from the engine to the pump. The spray pump speed should not exceed 540 RPM. Therefore the engine should not be allowed to run over 3250 RPM.



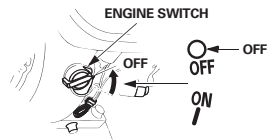
Stopping Engine

1. Move the throttle lever to the MIN. position.

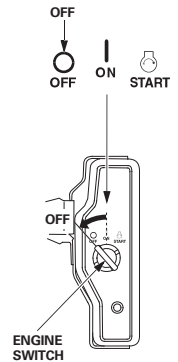


2. Turn the engine switch to the OFF position.

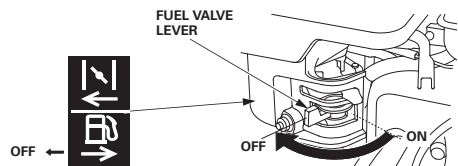
EXCEPT ELECTRIC STARTER TYPES



ELECTRIC STARTER TYPES



3. Move the fuel valve lever to the OFF position.



EMERGENCY SHUTDOWN: Turn the engine switch to the OFF position.

The full shutdown procedure should be followed during normal operation.

Pump

Diaphragm pumps are a positive displacement pump that utilise a number of rubber diaphragms and non-return check valves to pump (displace) the fluid. Diaphragm pumps are very well suited to chemical spraying applications. To ensure that you get the most from your pump, follow the information here to use it correctly. Proper operation and periodic maintenance are essential in obtaining the best possible performance from your sprayer over time.

PRESSURE RELIEF VALVE

The pressure relief valve provides relief when the pressure exceeds a pre-determined value and is part of the pressure control unit. Turning the adjuster clockwise will increase the pressure relief setting and vice versa. The pressure gauge gives indication of the delivery pressure to the spray gun.

Maximum allowable pressure 250 PSI.

BYPASS VALVE

The bypass valve enables all pump delivery to bypass back to the tank. The bypass valve is part of pressure control unit. It should be opened when starting the pump with an engine so that the engine does not start under load. The bypass valve should also be engaged to agitate the tank mixture when not spraying. To engage the bypass valve, pull the valve lever out. This will cause all pump delivery to be bypassed back to the tank. To disengage the bypass valve, push the valve lever in, so that the pump delivery is directed out to the spray lines.

IMPORTANT: Never overfill pump with oil as damage to seals & oil bowl may result. Do not operate diaphragm pumps above 540 RPM.

IMPORTANT: The pump will perform optimally close to, but not over 540 RPM. At speeds much below 540 RPM, excessive pulsation will occur. Speeds above 540 RPM are likely to result in pump and diaphragm damage.

IMPORTANT: Do not leave water in pump if sprayer is to be left in a cold environment. Frozen water inside the pump can cause the housing to crack. Always allow any frozen water inside the pump to thaw before attempting to operate the pump.

PREOPERATIONAL PROCEDURE

1. If sprayer is in a cold environment, make sure that any frozen water present in the pump is thawed before attempting operation to avoid serious damage. Ensure that the pump can be turned over by hand before starting.
2. Inspect all hoses to make sure they are the correct size, fitted securely and that there is no restriction or leaking.
3. Make sure that the pump PTO shaft cover is fitted correctly to prevent accidental injury.
4. Make sure the strainer in the suction filter is clean and correctly installed.
5. Lubricate the PTO shaft according to manufacturer recommendations to prevent the shaft from binding.
6. Change the pump oil after the first 50 hours of operation and then after every 300-350 hours. Use only SAE 30W40 motor oil and do not overfill. Rotate pump manually (by hand) to remove air locks when filling with oil.

WHEN THE PUMP IS OPERATING

- The oil should be visible in the bowl.
- Frequently check the oil level and colour.

IMPORTANT: A change in either colour or level indicates probable damage to diaphragm or valves. **Stop the pump immediately.**

POST OPERATIONAL PROCEDURE

1. Always flush pump with clean water at the end of each spraying day. Prolonged chemical contact can severely damage seals and diaphragms.
2. Do not leave water in pump if sprayer is to be left in a cold environment. Frozen water inside the pump can cause the housing to crack. Empty pump of all water and run it dry for 15-20 seconds. Then cover pump with a bag or similar to keep it protected. If this has not been done and there is a possibility there may be frozen water in the pump and/or in the lines, wait until any ice has completely thawed before using pump again.

Pump Maintenance

The pump diaphragms are wearing components that need to be replaced during the life of the pump. Life expectancy depends upon pump operation and maintenance and task suitability.

MAINTENANCE GUIDELINES

- Pump diaphragms should be replaced prior to diaphragm failure.
- Where the sprayer is used extensively, the pump should be reconditioned once a season, including replacing diaphragms, seals and valve springs.
- It is recommended to keep a spare pump repair kit (including diaphragms, seals, valve o-rings and springs) on hand in case of a breakdown.
- A change of oil colour indicates a pump problem. The oil should be regularly monitored when spraying so that any problem is detected as soon as possible. If the oil goes milky in colour, it is likely the diaphragm has split and the spray mixture has come into contact with the oil. If the oil goes black (or dark grey), it is likely the pump has overheated.

MAIN CAUSES OF PREMATURE DIAPHRAGM FAILURE

- Blocked or incorrectly fitted suction filter restricting flow to the pump.
- Incorrect air damper chamber pressure.
- Running pump at speeds greater than 540 RPM.
- Exceeding the 560 PSI pressure limit of the pump. (DO NOT exceed stated operating pressure of this product)
- Failure to wash chemicals from pump after use.
- Incompatibility of the diaphragm material and the chemicals used.

DIAPHRAGM REPLACEMENT

When diaphragms require replacement it is normal practice to replace the air damper diaphragm at the same time.

1. Flush pump with clean water to remove chemical residue, then flush with appropriate decontaminating agent (refer to chemical label for decontamination instructions).
2. Run pump dry for 15-20 seconds to remove water.
3. Remove all air from air damper chamber by pushing in air valve.
4. Remove pump from sprayer.
5. Remove pump manifolds and pump heads.

IMPORTANT: Carefully note the position and orientation of all heads, manifolds and valves when disassembling pump. Failure to reassemble correctly will result in severe pump damage.

6. Drain oil from pump.
7. Remove diaphragms.
8. Remove cylinder sleeves.
9. Flush inside of pump with diesel.
10. Visually inspect inner workings of pump.
11. Reassemble with correct new diaphragms only once satisfied with condition of pump.
12. Refill with oil (SAE 30W40). Rotate pump by hand to remove air locks. Do not overfill.

Pump Troubleshooting

The troubleshooting information is provided as a reference when your sprayer is not functioning correctly.

To ensure that you receive the best possible service, it is recommended that you exhaust all applicable troubleshooting solutions shown prior to calling your dealer, or Goldacres, for service advice.

Problem	Common Causes	Common Solution
Pressure and flow rate are too low	Excessive bypass on regulator	Check regulator setting on pump.
	Supply to pump is restricted	Suction filter may be blocked
		Check tank sump and suction line blockages
		Check suction line for air leaks
		Check pump speed
Pressure and flow rate are too high	Bypass from regulator is restricted or blocked	Check oil for colour change. If the oil appears milky, a diaphragm will be damaged and needs to be replaced.
		Check valves in pump.
The pressure on my gauge is higher than the nozzle flow indicates	Blocked filter or nozzle	Check for restriction in bypass
The flow rate is correct but my pressure is too low or high.	Flow loss due to resistance in lines, fittings and/or nozzle.	Adjust pump speed, close to, but no higher than 540 rpm (3250 rpm engine).
Pressure fluctuation	Spray gun nozzle	Check and clean pressure line, fittings and nozzle
	Air leak on suction side of pump	Check nozzle on spray gun for type and fitment
	Incorrect pump speed	Check suction pump for air leaks
Pump pressure pulsating	Faulty pump valves	Adjust pump speed, close to, but no higher than 540 rpm (3250 rpm engine).
	Air accumulator pressure is incorrect	Replace pump valves
	Air accumulator diaphragm has a leak	Add or remove air in accumulator as necessary
	Pump speed too low	Replace air accumulator diaphragm
Pump oil becoming black or dark grey	Air leak on suction side of pump	Adjust pump speed, close to, but no higher than 540 rpm (3250 rpm engine).
	Pump is overheating	Check pump suction for air leaks
Pump is noisy	Low oil level	Check pump speed and oil level
	Air accumulator pressure set incorrectly	Refill or replace oil
	Insufficient lubrication	Recharge air accumulator to specified pressure
	Damaged pump valves	Replace all bearings
	Pump suction line has air leak or is restricted	Replace pump valves
Pump housing or mountings cracked	Extremely cold weather can cause liquid in the pump to freeze and expand	Clean suction filter and check for leaks in suction lines
		Water should be removed from the pump when storing in very cold environments

Suction Filter

It is essential to maintain all filters, and filter screens, in good condition. Filter screens that are not regularly cleaned can severely impede the flow and thus affect delivery pressure.

If the screen is in any way damaged, it can allow foreign material into the pumping system which can result in damage to the pump, lines, valves and nozzle tips. If the screen is not properly fitted, it can allow air into the pumping lines which will reduce the performance of the pump. The filter screen should be cleaned after every spraying operation. The best way to clean the filter screen is with a soft brush or compressed air after washing the entire chemical residue from the pump.

SAFETY SHUT-OFF VALVE

The safety shut off valve enables the filter bowl to be removed while automatically shutting off the supply line to the filter. As the filter bowl is removed together with the bowl cap, the valve plunger seats so as to seal off the filter from the supply line. Replacing the filter bowl unseats the valve plunger and thus opens the supply line to the filter.

SUCTION FILTER CLEANING

WARNING: Appropriate PPE must be worn when cleaning filters.

1. Ensure the pump is turned off.
2. Carefully unscrew filter nut and remove bowl and avoid contact with residual chemical.
3. Remove screen and clean (with a soft brush or compressed air).
4. Check for damage to screen, bowl, body and O-ring.
5. Place screen back in position.
6. Make sure O-ring is in position for proper seal.
7. Replace bowl and screw nut on. Do not over-tighten nut.

Filling

When filling the sprayer it is necessary to use an external water source.

WARNING: Operators must wear the appropriate PPE.

The following steps should be followed when filling the tank:

1. With sprayer mounted on the vehicle, park on level ground.
2. The pump should be turned off.
3. Remove the tank lid.
4. Add 20% of the tanks volume of clean water, or more, if the chemical is in a denser form e.g. powder.
5. Add chemical as required. Some agitation will take place as the rest of the water is added.
6. Use external water source to fill main tank (Do not exceed the tank capacity).
7. Replace the tank lid and ensure that it is secure prior to switching on pump. You are now ready to use the sprayer.

WARNING: When filling tank with water, 1 litre of water will add 1 kg of weight. Some chemicals have a higher density than water and will weigh more per litre. Therefore, it is the operators responsibility to ensure the loaded weight of the sprayer does not exceed the towing and / or carrying capacity of the vehicle.

Tasks prior to spraying

CAUTION:

Before using this equipment with a chemical mix, read and understand, the instructions on the chemical label. The first time setup procedure should be carried out as a water test only prior to any chemical being applied to the tank and applied.

Following the first time set up procedure being followed, there are several important checks to be carried out prior to starting spraying.

1. Inspect the sprayer to ensure there is no damage or wear which could lead to injury, further damage or reduce its performance.
2. Check all bolts and nuts to make sure they are tight and secure.
3. Carry out scheduled lubrication.
4. Make sure the sprayer is securely attached to the vehicle
5. Fill the flush water tank (where fitted) and hand wash tank (where fitted) with an appropriate amount of clean water.
6. Clean all filters and nozzles.
7. Fill main tank with a quantity (approx 10% of total tank volume) of fresh water.
8. Test the pump with clean water. To start the pump, start the engine at the lowest revs possible and then gradually increase revs until the pump reaches your desired operating speed.

CAUTION: Do not exceed 540 RPM.

9. Check nozzle patterns for irregularities. If there are irregularities, clean the nozzles and replace. If the problem persists they could be worn so remove and replace.
10. For optimal sprayer set-up, the operator needs to be aware of the correct nozzle, the correct speed at which to travel and the appropriate rate per hectare to apply the product. For this information, refer to the chemical label, the supplier of the product and the TeeJet catalogue.
11. Check all hoses and fittings for leaks or damage.
12. Follow the chemical label and ensure that you follow the specified mixing procedure for addition of chemicals to main tank.

13. When mixing procedure has been followed, fill main tank with appropriate quantity of water required for task at hand.

14. **CAUTION:** Traymount sprayers fitted with manual hose reels should not exceed 160 PSI maximum spraying pressure. If the unit is fitted with a Pro Reel automatic rewind hose reel the maximum operating pressure is 250 PSI.

WARNING: When filling tanks with water, 1 litre of water will add 1 kg of weight. Some chemicals weigh more than water, therefore it is the operators responsibility to ensure the loaded weight of the sprayer does not exceed the towing and / or carrying capacity of the vehicle.

15. You are now ready to start using the sprayer

Operation

General

Before attempting to use your sprayer with any chemicals, the application rate in litres per hectare and the droplet spectrum need to be considered. This information should be readily available from your agronomist and by referring to the chemical label.

NOTE: Allow the pump to agitate the tank mixture while filling. It is normal practice to agitate the spray mixture before spraying. The chemicals need to mix uniformly throughout the spray mixture in order to achieve a correct spray application. Agitation is primarily a function of pump capacity, such that the larger the pump the greater the amount of bypass and hence the greater amount of agitation for a given spraying application.

Connections

The following steps should be followed when connecting to a power source:

1. Ensure that the battery is 12V DC
2. Connect the red connector to the positive (+) terminal and the black connector to the negative (-) terminal.

Calibration

All sprayers need to be calibrated and kept in good condition. This will ensure that the correct rate of chemical is applied to the target.

Follow these steps to calibrate the sprayer:

1. Measure the spray width of the nozzle on a dry surface (in metres)
2. Spray a test area at the intended pressure and speed. Record distance (in metres) covered in one minute (minute)
3. Measure the nozzle output in litres over one minute in a measuring jug (l/min)

The spray volume can be calculated by the following formula:

$$\text{Application rate (L/Ha)} = \frac{\text{Nozzle output (l/min)} \times 10,000}{\text{Spray width (m)} \times \text{speed (m/min)}}$$

Flushing

The following information is provided as a general guide for flushing your sprayer after a spray application

For more specific information regarding flushing, and decontamination, specific to the products that you are applying, it is recommended that you consult the chemical label or your chemical supplier.

WARNING: Operators must wear the appropriate PPE.

1. Turn pump off.
2. Drain main tank by opening drain valve.
3. Add a quantity of fresh water to main tank and allow to exit through drain.
4. Close drain valve and add a quantity of fresh water along with decontaminating agents if required to main tank.
5. Turn on pump, and spray fresh water through the spray gun. This will ensure that fresh water has circulated through the pump and gun.
6. Drain remaining contents of fresh water. and then re-close drain valve. The sprayer is now ready for storage.

Storage

If the sprayer is to be stored for a long period of time without use, there are several tasks that need to be performed.

1. Clean the sprayer thoroughly as described under “flushing”.
2. Store the sprayer out of direct sunlight and where it will not be affected by frosts.
3. Ensure that the main tank is empty.
4. Protect hoses and electrical connections.

Maintenance and Troubleshooting

Pump Information (Diaphragm pumps)

The pump is critical to any sprayer performance. Correct operation and maintenance of the pump will ensure the sprayer is able to perform to its capabilities.

Flushing the pump system with fresh water:

To flush the pump system, use the procedure described under the using your sprayer section of this manual for “Flushing”.

NOTE: Never overfill pump with oil as damage to seals and oil bowl may result.

The pump will perform optimally operating between 400 and 540 RPM. 500 RPM is approximately three quarter revs on the engine.

At lower revs excessive pulsation will occur, while pump and diaphragm damage can result at higher revs.

Manual Controls

A general explanation of manual controller functions are as follows:

Pressure Relief Valve

The pressure relief valve provides relief when the pressure exceeds a pre-determined value. Altering the adjusting stem will affect the setting at which the relief valve will come into operation. Turning the stem clockwise will increase the pressure relief setting. The pressure gauge gives indication of the delivery pressure to the boom or gunjet.

By-Pass Valve

The By-pass valve enables all pump delivery to bypass back to the tank. The by-pass valve should be engaged when starting the pump with an engine so that the engine does not start under load. The by-pass valve should also be engaged when wanting to agitate the tank mixture when not spraying. To engage the by-pass valve, pull the valve lever out. This will cause all pump delivery to be bypassed back to the tank.

To disengage the by-pass valve, push the valve lever in, so that the pump delivery is directed out to the spray lines

Boom / Attachment Levers

The boom/attachment levers (number fitted dependent on options specified) open or close flow to the appropriate boom section/s or attachment/s as labeled. Pull the lever to the ON position in order to direct flow from the pump to the required function. Push the lever to the OFF position to stop flow going to the attachment that is now not required.

Calibration

Any sprayer should be calibrated regularly to ensure minimal error in the application rate. A nozzle selection chart indicates what application rates are to be expected but variations due to nozzle wear and pressure irregularities can result in large application rate errors.

Application Rate

The application rate depends on the following:

Spray pressure - increasing pressure increases application rate and reducing pressure reduces application rate

Speed of travel - increasing speed reduces application rate and reducing speed increases application rate

Nozzle size - increasing the nozzle size increases the application rate.

Nozzle Selection

Refer to the chemical manufacturer's information to determine the recommended application rate in litres per hectare (l/ha) for your particular situation. Then determine the speed in kilometres per hour (km/hr) at which you intend to spray, taking into consideration the ground conditions of the area to be sprayed. Using the appropriate chart for your boom select the most suitable nozzle to use.

Nozzle Calibration

As part of your daily sprayer calibration, Goldacres suggests that you carry out a jug test to ensure the spray nozzles you are using are delivering the correct amount of chemical, as stated in your nozzle supplier's rate chart.

The method of carrying out the jug test is as follows:

You will need:

- A calibrated measuring container that can measure the medium in litres, in 10 ml increments. e.g. 0.45 Lt.
- A timing device showing seconds.
- A pressure gauge mounted at the nozzle tip to verify the system pressure being delivered at the nozzle. Goldacres part number QJ4676-1/4-NYR will mount a suitable gauge to the nozzle body bayonet fitting. (Not including gauge).

NOTE: There may be a noticeable difference between pressure shown on main spray pressure gauge on sprayer and the gauge installed on the boom. This is due to pressure loss through the circuit.

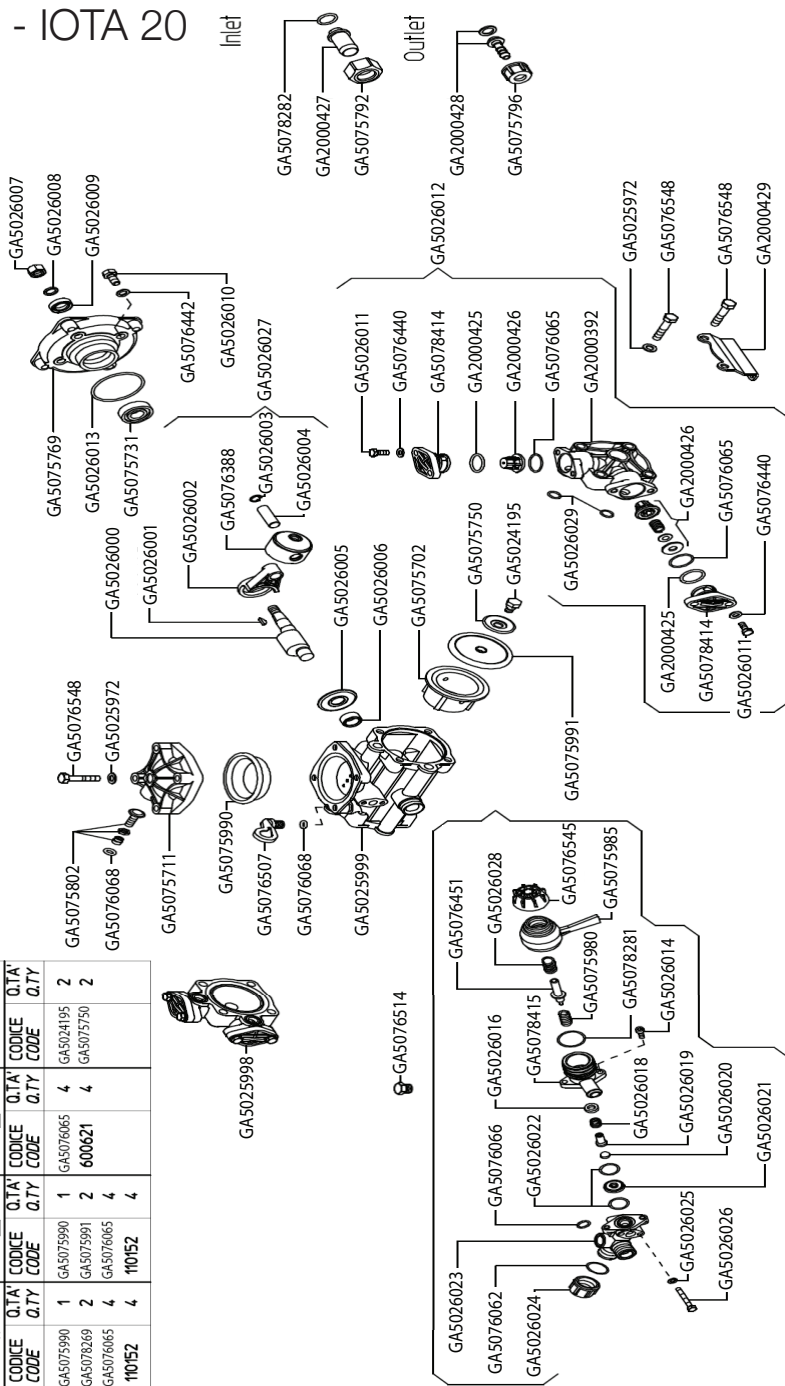
1. Check the plumbing system for kinked or obstructed hoses and repair or replace any hoses that restrict the normal flow of the liquid.
2. Start your sprayer
 - a. For sprayers not fitted with a spray application controller, set the boom operating pressure to the pressure at which you expect to spray.
 - b. For sprayers fitted with a spray application controller, initiate a 'self test' procedure and set the application rate and speed to the settings depicted in your "Rate Chart" at which you expect to spray.
3. Then place the jug under one of the nozzles, for 60 seconds (exactly) and then record the volume of liquid collected.
4. Repeat the test over a representative sample of the jets in each boom section
5. Compare the volume collected from each nozzle to the stated volume in your rate chart. It should be no more than plus or minus 10% of the volume stated in your Nozzle Supplier's rate chart

6. In the event that any of your nozzles do not deliver the required volume, a further investigation is required which may include, but not be limited to:
 - a. Cleaning the nozzles, using the method recommended by the nozzle supplier.
 - b. Replacing the nozzles.
 - c. TeeJet advise that nozzles that flow greater than +10% of their stated volume are 'worn out' and should be replaced.
 - d. Cleaning nozzle filters.
 - e. Replacing filters.
 - f. Replacing pump diaphragms.
 - g. Replacing the pump.
 - h. Ensuring that the application rate required does not exceed the maximum flow and pressure parameters of the sprayer.

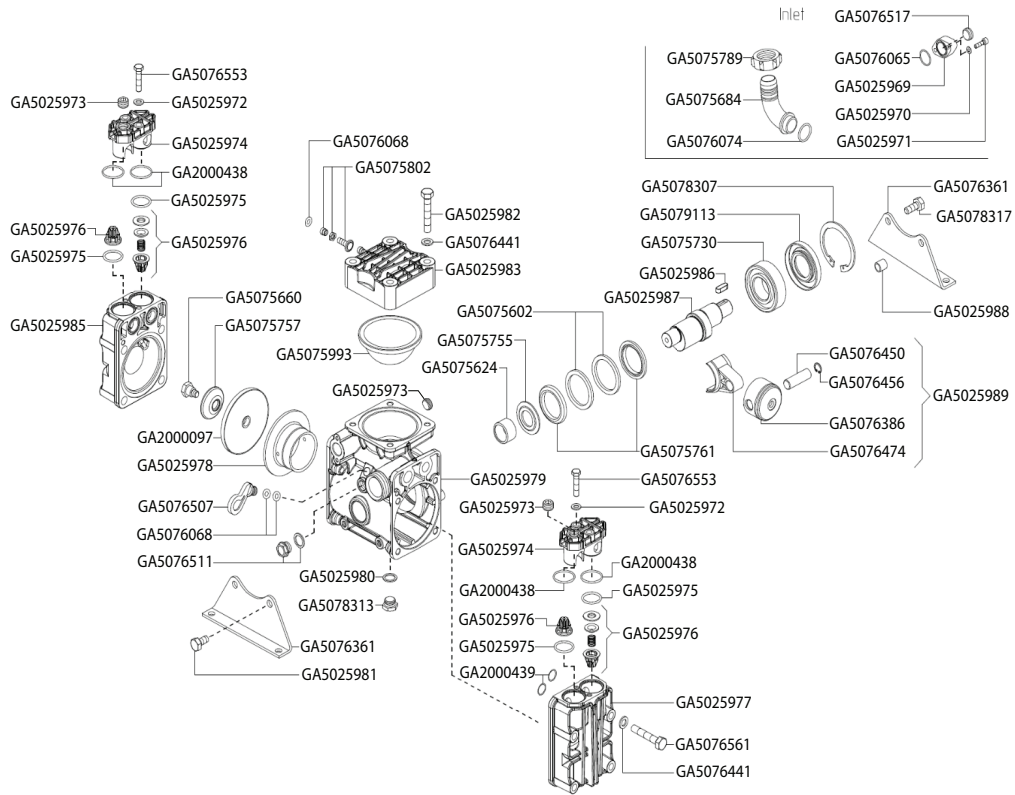
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Pump - IOTA 20

KIT 629	KIT 536	KIT 537	KIT 538
870001	606237	606238	606240
*	▲	■	●
CODE CODE	Q.TA Q.TY	CODE CODE	Q.TA Q.TY
GA5075990	1	GA5075990	1
GA5078269	2	GA5075991	2
GA5076065	4	GA5076065	4
110152	4	110152	4



Pump - Delta 40



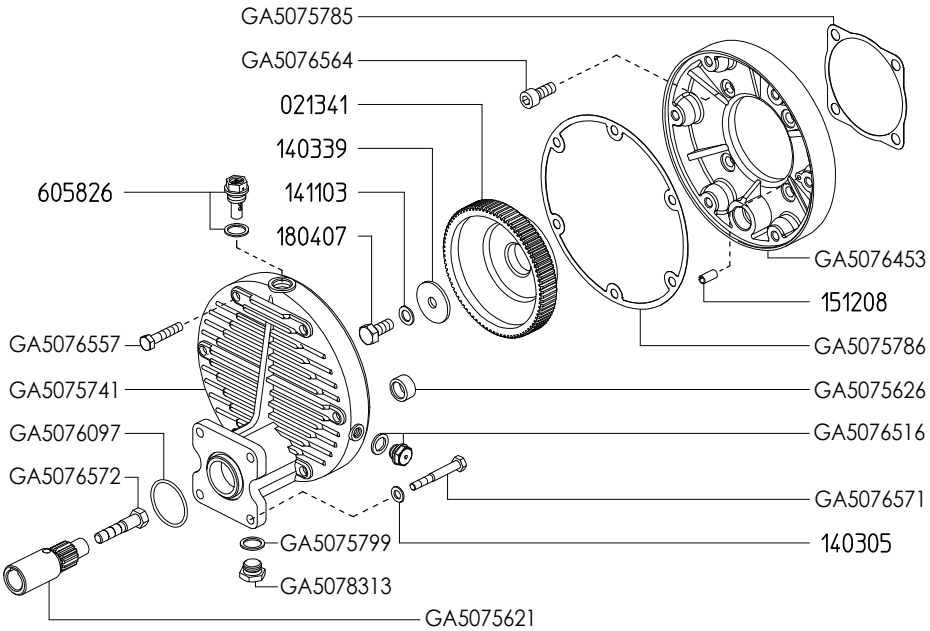
Part No.	Description
GA5072285	Pump, Delta 40 GR
GA5023870-SK	Diaphragm kit
GA5077781	Pump Repair kit, Delta 40, includes diaphragms seals & valves
GA5025973	Plug, 3/8", Suit, UDOR, 160370

Continued over page

Pump - Delta 40

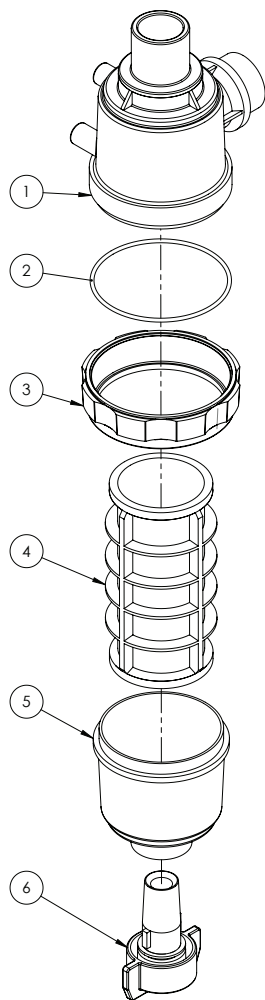
Part No.	Description
GA5025976	Valve Assy, UDOR, "KAPPA/DELTA"W/T O-Ring, 606304
GA5025975	O-Ring, D25.00, (RIF.4100), UDOR, 110131
GA5025985	Head, Right, Suit, UDOR, Delta, 40/75/100/125, 1604G1
GA5076553	Hex Screw M8x35 UNI5737, 180454
GA5025972	Washer, D8,4, UDOR, 140305
GA5025974	Cover, Delta, 40/75/100/125, UDOR, 021112
GA2000438	O-Ring, 29mm, Delta 40, 110195
GA5075660	Bolt, Suit pump diaphragm, Kappa / Zeta pumps, Udor, 010204
GA5075993	Diaphragm, Pump accumulator, Kappa / Zeta pumps, 090314
GA5025980	Gasket, D17, UDOR, 060543
GA5078313	Oil plug, 3/8", Brass, Udor, 160364
GA5076361	Base Plate "Kappa 25/32/40/50", 120202
GA5025981	Hex Screw, M10x20, UNI5739, Dacromet, UDOR, 180406
GA5025982	Hex Screw, M10x60, UNI5737, UDOR, 180445
GA5076441	Washer D10,5x18x2, 140309
GA5025983	Cover, Accumulator, "Delta 40/75", UDOR, 020886
GA5075602	Retainer ring, ZETA 70 / KAPPA 40, 000106
GA5075755	Bearing Disc "Kappa 40/50/55/65", 030130
GA5075624	Bushing D25x32x20 HK25-20, 000602
GA5025979	Crank Case, "DELTA 40/50", UDOR, 0209D01
GA5025977	Head, Left, Suit, UDOR, Delta, 40/75/100/125, 1604G2
GA5075761	Rod Spacer "Kappa 40/50/55/65", 030250
GA5025987	Shaft, GR, UDOR, 0002H3
GA5025986	Key Way, UDOR, 080102
GA5075730	Ball Bearing D35x72x17 6207, 021405
GA5079113	Seal, Shaft, Suit, UDOR, Zeta140, 000705
GA5078307	Snap Ring D72, 150607
GA5076074	O ring, 28.00 x 3.00, 110141
GA5075684	Hose barb, Elbow, 90 degree, Fly nut end x 32mm hose, Udor, 020252
GA5075789	Plastic Nut M42x2, 060418
GA5076517	PLUG G1/2, 160371
GA5076065	O-Ring D23,52x1,78 (rif.2093), 110110
GA5025969	Flange, Control, Remote, Suit, UDOR, Delta 40, 051909/051903
GA5025971	Allen Screw, M6 X 22, UNI5931, Dacromet, UDOR, 180553
GA5078317	Hex Screw M10x25 UNI5739, 180407
GA5025988	Spacer, UDOR, 030289
GA5076450	Pin D15x48, 150203
GA5076456	Snap Ring D15, 150615
GA5076386	Aluminium Plunger D55 "Kappa 25/43/55", 120507
GA5076474	Connecting Rod, Zeta 70, Delta 40/50 151914, 151918
GA5025989	Rod Assy, "DELTA 40", D55, UDOR, 601527

Gearbox



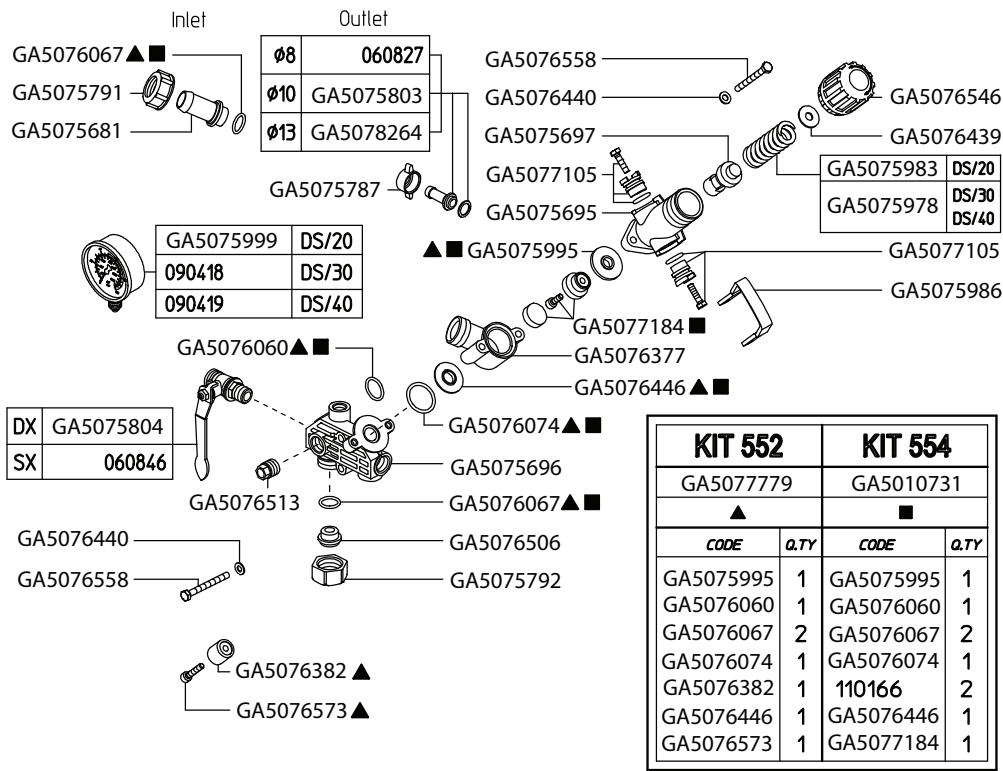
Part No.	Description
GA5072295	Reduction Gearbox, Ratio 6:1, S160-3/4 GR - Suit GX200
GA5076453	Gear body
GA5075786	Gasket, Coupler
GA5075626	Bushing
GA5076516	Oil plug + Gasket
GA5076571	Hex screw, Coupler
GA5075621	Gear shaft, motor to gear box, 3/4"
GA5075799	Gasket, Oil plug
GA5078313	Oil plug, 3/8", Brass
GA5075785	Gasket, Pump side
GA5076564	Allen screw, M10 x 25
GA5076557	Bolt, M8 x 50
GA5075741	Coupler
GA5076097	O ring, 42.52 x 2.62 mm
GA5076572	Hex screw, Gear shaft

Suction Filter Assembly



Pos.	Part No.	Description	Qty.
-	GA2000106	Suction Filter, 1 1/2" 50 Mesh, 1 1/2" BSP Male Threads, Geoline	-
1	C00002018	Body, Suction filter, 1 1/2", Geoline, C00002018	1
2	GA5024275	O-ring, 5.34 x 94.62 mm, Suction filter, 1 1/2", suits GA2000106	1
3	GA5024285	Nut, Suction filter, 1 1/2", Geoline	1
4	GA5024295	Filter Screen, 50 Mesh, Dia 79 x 167 mm length, Suit Geoline Filter GA2000106, O-rings GA5024290 are not included.	1
	GA5024290	O-ring, Suit filter mesh	2
5	C00201009	Bowl, Suction filter, 1 1/2", Geoline, C00201009	1
6	K00100001	Drain plug, Suction filter, 1 1/2", Geoline, K00100001	1

Pressure Control Unit



Part No.	Description
GA5077650	Pressure control unit, valve, DS3, 3 section, 30 Bar, Udor
GA5077088	Pressure control valve, DS3/20
GA5077779	Repair kit, DS2 DS3 controller, KIT552
GA5077780	Repair kit, DS2 DS3 controller, KIT554

Continued over page

Pressure Control Unit

Part No.	Description
GA5075681	Hose Barb D20
GA5075695	Regulator Valve Body
GA5075696	Control Body
GA5075697	Cylinder
GA5075787	Nut, 1/2", Brass with tabs
GA5075791	Fly nut, M30
GA5075792	Nut, Plastic, 3/4"
GA5075803	Hose Barb D10+Gasket
GA5075804	Ball Valve Right
GA5075978	Press. Spring
GA5075983	Spring, Compression
GA5075986	Regulator Handle
GA5075995	Diaphragm, Diameter 36 mm, Control unit flow control
GA5075999	Pressure Gauge, 20 Bar
GA5076060	O ring, 20.63 x 2.62 mm
GA5076067	O ring, 17.13 x 2.62 mm
GA5076377	Elbow
GA5076382	Poppet
GA5076439	Washer, 8.5 ID x 24 OD x 2 mm
GA5076440	Washer D6,4X12X1,6
GA5076446	Valve seat
GA5076506	Plug
GA5076513	Plug G3/8
GA5076546	Adjuster knob, Green
GA5076558	Hex Screw M6X60 UNI5737
GA5076573	Allen Screw M6X30 UNI5931
GA5077105	Regulator Cylinder Kit
GA5077184	Regulator Valve Repair Kit
GA5078264	Hose Barb D13+Gasket

General Information & Specifications

General

The Pro-Reel hose reel is electrically driven with 12V from the vehicle battery. Up to 150 metres of hose can be fitted and a gunjet provides for even and accurate spray application.

Single or multiple units can be linked to an appropriate tank and pump configuration.

Chassis:

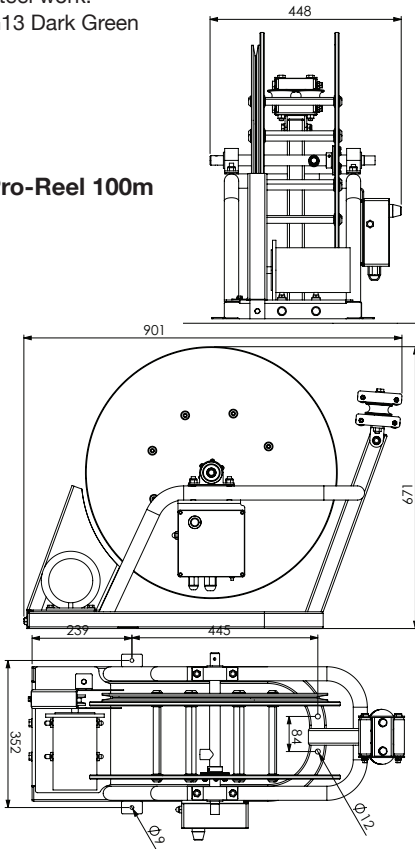
The chassis is an all steel construction, that is fully welded for superior strength. The chassis is shot blasted, primed and then protected by the Goldacres paint process for excellent chemical resistance and durability.

Paint Colours:

Steel work:

G13 Dark Green

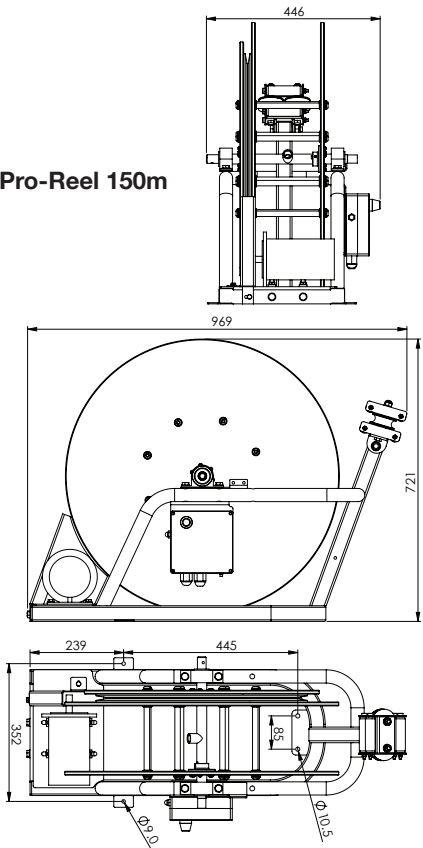
Pro-Reel 100m



Hose size	10mm
Hose length	100,150 metres
Pump requirements	Min 20 l/min

Connections	50 Amp Anderson plug (supplied)
Control type	Remote
Drive	12V electric

Pro-Reel 150m



Key Features



Pos.	Part No.	Function
1	-	Hose Feeder
2	GA5063500	Electrical Control Box, Antenna, Remote and loom (complete assembly)
3	GA5052970	Electrical motor
4	GA5023475	Spray Gun
5	-	V Belt Adjusters
6	GA5061710	Remote Aerial
7	GA5053245	Anderson Plug grey 50 amp
8A	GA5061715	Remote transmitter, 2 button, Black, Goldacres Pro Reel
8B	GA5072541	Cable, 2.5mm jack, 3 wire, Programming, suit Goldacres Pro-Reel remote control
9A	GA5061720	Remote transmitter, 2 button, Elsema, Pro Reel
9B	GA5072540	Cable, 2.5mm jack, 2 wire, Programming, suit Elsema Pro-Reel remote control
10	GA5072390	PCB Board (457PN3-1000)
11	GA5072380	Switch Circuit Breaker
12	GA5053245	50amp Anderson Plug
13	GA5072541	Cable, 2.5mm jack, 3 wire, Programing suit Pro reel remote control
14	GA5072545	Switch, Manual override
15	GA5023910	V Belt, A73 Size, suit Pro-Reel

PROREEL CABLE SIZE CHART @ 12vdc / 30 amps

30 amp overload protection

Distance from battery to Anderson plug (mts)	1	2	5	7.5	10
Cable in mmx2	2.5	6	16	25	25
AWG	13	10	6	4	3

Connecting to a power source

The following steps should be followed when connecting to a power source:

1. Ensure that the battery is 12V DC and that a 40amp, circuit breaker is fitted to the positive lead at the battery.
2. Using the Anderson plug supplied, connect the red connector to the positive (+) terminal and the black connector to the negative (-) terminal. It is recommended to get an electrician to wire this unit.

WARNING: Do not use the nominally 1.5V Lithium cells in the remote unit as these are in fact above 1.8V when new, and may result in damage to the remote unit. Use only high quality 1.5V alkaline cells for good performance and product reliability.

Connecting to a water source

The following steps should be followed when connecting to a water source:

1. The ½" supply hose must have a pressure rating that exceeds the pump pressure, needs to be connected up to the hose reel.
2. Slide the supplied nut onto the hose, then slide the olive on so there is about 4-5mm of hose coming through the olive.
3. Fit the hose and tighten the nut to the Pro-Reel.

Connecting the Engine Remote Shutdown

WARNING: Do not have any power connected for this operation.

1. Disconnect the 6 pin plug from the control box.
2. Open the female plug that is on the electric motor side. Remove the seal from the "E" port
3. With a 3mm blue wire, fit the supplied green seal and crimp on the terminal pin.
4. Fit wire into the "E" port on the 6 pin plug and press home until you feel a click. The pin is seated. Close the cover on the plug.
5. Fit the two plugs together and ensure they seat correctly.
6. Feed the blue wire to the pump motor ON switch making sure that it is out of the way of moving parts and will not get hot from any parts of the engine.
7. Fit the wire to the earth wire on the engine ON/OFF switch.

Prepare for use

1. Inspect the unit to ensure there is no damage or wear which could lead to injury, further damage or reduce its performance.
2. Check all hoses and fittings, including spray gun, for leaks or damage.
3. Check all bolts and nuts to make sure they are tight and secure.
4. The Pro-Reel hose reel is operated by remote control and when fitted should be in a location which is easily accessible with clearance between the reel and all other items.

Operation

CAUTION: Keep hands, feet, hair and clothing away from all moving parts to prevent injury.

NOTE: Hose will un-wind with a small amount of restriction when pulled out by hand

Operation

1. While connected to a power source, the unit is always powered.
2. Remove the linch pin and check the spray gun.
3. Test the remote and manual rewind functions. The manual "REWIND" button is located on the control box.
4. Unwind the hose (taking care to not over-run the hose)
5. The hose can then be wound in by pressing the "REWIND" button on the remote control.
6. If the reel stops turning due to a hose jam DO NOT continue to push the button or damage may occur. Clear the cause of the jam prior to further operation. If the remote does not work after the jam, the control box overload may need to be reset. Press to reset.
7. When finished, rinse the line out with fresh water.
8. Retract all the hose and remount the spray gun.
9. When complete, disconnect the power at the anderson plug.



Current overload reset button

Goldacres Pro-Reel® Single Reel Controller Configuration

This manual provides instructions for the configuration of the Goldacres Pro-Reel® wireless controller system.



Figure 1: From left to right, Pro-Reel® Control Box, the configuration cable and the hand-held remote unit.

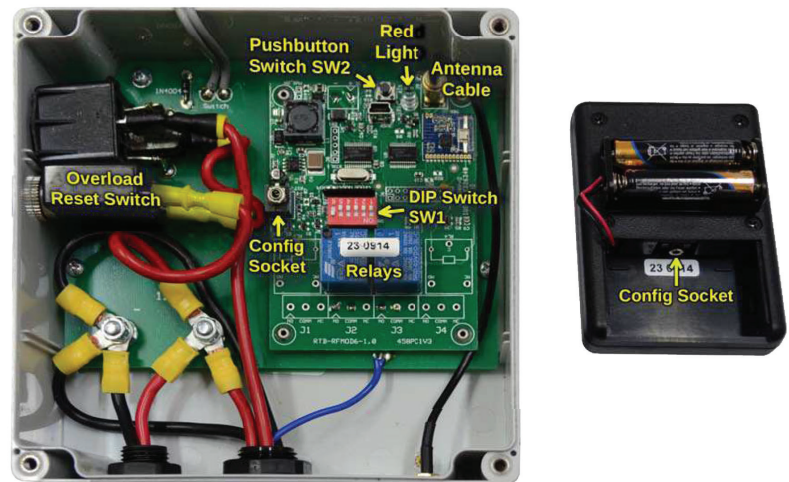


Figure 2: On the left is an inside view of the Pro-Reel® Control Box showing the parts relevant to setup. On the right is a view of the hand-held remote unit underside with the battery cover and battery pack removed, exposing the configuration socket.

Supplying Power to the Remote Unit and the Pro-Reel® Control Box

Refer to figure 2 on page 1 for information on the locations of the various parts.

CAUTION: Ensure that battery polarity is correct when inserting batteries into the remote unit battery compartment.

WARNING: Do NOT use the nominally 1.5V Lithium cells in the remote unit as these are in fact above

1.8V when new and may result in damage to the remote unit. Use only high quality 1.5V alkaline cells for

good performance and product reliability.

For the remote unit, ensure that a suitable pair of 1.5V cells are inserted correctly into the unit. The battery cover

is on the rear of the unit at the base. Two size 'AAA' cells will be required. Spring contacts in the battery holder

always connect to the negative ends of the cells. Also under the battery cover can be found the configuration

socket (see figure 2 on page 1) which is a 2.5mm socket. This is used to connect the remote unit and the control

box together with the supplied configuration cable to enable programming of remote unit buttons to control box

relays. The battery holder must be removed in order to access the configuration socket of the remote unit, but the

batteries should be left in the holder to ensure that the remote unit is still powered.

The Pro-Reel® control box should already be suitably configured with 12V DC vehicle battery power.

Pro-Reel® Control Box Configuration

Configuration of the system is required if replacing a damaged or lost remote (hand held transmitter) unit, since

each transmitter and receiver are paired using unique identifier codes.

2.1 Configuring a Remote Unit to control a Control Box's relays.

In the event that a remote unit must be replaced or a new one added to an existing configuration, the following steps will enable a new remote unit to be used with an existing control box. The location of relevant parts can be identified using figure 2 on page 1.

CAUTION: Do not touch any component in the control box except those parts referred to in the following procedure.

1. Check that the DIP switch (SW1 in the control box) is set as follows:

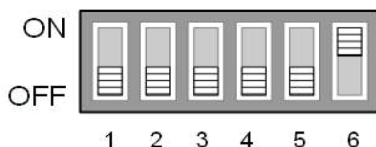


Figure 3: DIP Switch (SW1) setting. Note that all switches are in the OFF position except switch 6.

2. Connect the configuration cable between the remote unit and the control box via the configuration sockets. If done successfully, the red light of each unit will light up continuously. If both lights do not ensuring that neither light is lit and then reconnect the cable. (If, after several attempts to establish the configuration connection, the lights do not both remain lit, then consult the troubleshooting section, section 3, of this manual.)
3. Once the red lights of both the remote unit and the control box remain lit while the configuration cable is connected, press and hold push-button switch, SW2, in the control box until the control box's red light turns off, then release the push-button switch. The control box's red light should remain off but the remote unit's red light should still be on.
4. On the remote unit, depress the Rewind button. The light on the remote unit should turn off and the light in the control box should very briefly turn on and then

immediately off again.

5. Now depress the Engine Off button on the remote unit. The light on the remote unit will turn back on and the light in the control box should also switch on and remain on. This indicates that the configuration is complete.
6. Disconnect the configuration cable and test the system by pressing each of the two remote unit buttons in succession to observe whether or not they perform as required.

This completes the setup and test of a hand-held remote unit with a Pro-Reel® control box. If there are problems

with operation of the system, the control box can be restored to factory settings as follows:

Restoring a Control Box to factory default settings

Do not connect the configuration cable since this operation is done to the control box alone.

1. Press and hold down the control box push-button switch, SW2, for at least 12 seconds. Time this by counting slowly to 12, during which time the red light will switch on and off various times and for various durations. When the required time has elapsed, the light will blink on and off continuously at a fast rate (flashing about twice per second). This means that 12 seconds has elapsed.
2. Release the push-button switch. The control box's factory settings have now been fully restored.
3. Perform the configuration process again, as described in section 2.1, if required.

The control box factory restore process will always restore settings back to their factory defaults. If any settings

have been altered for an alternative mode of operation, these will have to be configured again.

Control Box Troubleshooting

The following list of items may be used to aid in fault finding if the control box fails to respond to remote unit transmissions. Use this when the control box is opened for configuration of a new or replacement remote unit if the equipment fails to perform correctly upon configuration.

NOTE: Do not attempt repairs to the control box internal circuitry or associated wiring looms, connectors and external associated equipment. This list is only intended as a basic guide to resolve any minor issues or to simply locate potentially major issues that may result from wear of the equipment. Refer all servicing to the product supplier.

CAUTION: Do not make physical contact with any of the components in the control box except to connect the configuration cable to the configuration socket, to set the DIP switch (SW1) as described in section 2.1 (if it has been altered) and to press the push-button switch (SW2) as described in section 2.1. Contamination of circuitry or electrostatic discharge into the circuit may result in permanent damage to the control box.

1. Check control box power as described in section 1. Ensure that adequate vehicle battery power is available to the Pro-Reel® control box and that it is correctly connected. The system is designed for 12V DC automotive power supplies.
2. Press and release the Pro-Reel® control box current overload reset button (on the left side of the control box exterior) in case an overload has occurred. If the unit now works, it is advisable to inspect the system to discover, if possible, what caused the overload and rectify the problem.
3. Check that the hand-held remote unit batteries are correctly oriented and that they are serviceable. Replace them if uncertain about their age. Never mix old and new batteries or batteries of different types. When replacing batteries, always replace both with a pair of the same type of batteries. Mixing batteries can result in damage to the remote unit if either battery

leaks. Refer to section 1 regarding the correct selection of battery types.

4. Perform the configuration procedure again as described in section 2.1 but do a factory restore of the control box first, if not already done, as described in section 2.2. Ensure that the configuration cable that was supplied with the unit is used. Disconnect the configuration cable when done.
5. When pressing the remote unit buttons to test operation, check that the remote unit red light lights up while a button is being pressed. If not then either the remote unit has not been correctly configured or the battery voltage is not correct or it is a faulty unit.
6. If the remote unit light lights up when pressing a button, listen for relay clicking sounds inside the Pro-Reel® control box. Each remote unit button must control a relay in the control box and when they are operating the relays can clearly be heard. This ensures that remote control communications is working.
7. Visually inspect the wiring looms and connectors attached to the Pro-Reel® control box and associated external devices for correct fit and any possible wear or damage to wires, wire insulation or connector housing. Inspect also for signs of water damage or corrosion. Damaged connectors or wiring looms should be immediately repaired (refer to your product supplier) as they pose a short circuit risk to the vehicle's electrical system. Never operate a unit with damaged wiring or damaged, loose or poorly fitting connectors as this poses a risk to both the equipment and the vehicle's electrical system.
8. Check the external antenna connection and inspect for any damage to the antenna cable or a damaged or loose connector at the exterior of the control box. Also check that the control box antenna connector is correctly attached to the control box SMA connector inside the control box when opened. The SMA connector is the gold coloured connector connecting the antenna cable to the control box

receiver board (see figure 2 on page 1).

The connector should not be loose but do not tighten further if it is not loose.

Loss of received signal strength that may result from damaged or poorly connected antenna cables or connectors will typically become a problem when the remote unit is at a distance from the control box.

CAUTION: Do not make physical contact with any part of the control box printed circuit board or components except to check the antenna connector.

9. Visually inspect the interior of the Pro-Reel® control box while it is open for any loose wires or connections or any loose foreign object that may result in short circuiting of exposed electrical conductors or components. Ensure that all connections are secure and that the control box is free of foreign objects before refitting the control box cover.

If the problem cannot be determined, then refer to your product supplier for assistance.

Maintenance

To ensure that you get the most from your hose reel, it is important to regularly maintain and service. Always use quality multipurpose lubricants.

	Daily	Weekly	Monthly	Yearly
Check hose and filters	✓			
Check battery condition	✓			
Check guards	✓			
Check reel operation	✓			
Check belt tension		✓		
Check cables and terminals		✓		
Replace remote battery			✓	
Check bearings			✓	✓
Replace belt				✓
Check electric motor				✓
Replace “O” rings in inlet swivel				✓

Troubleshooting

The troubleshooting information is provided as a reference when your reel is not functioning correctly.

To ensure that you receive the best possible service, it is recommended that you exhaust all applicable troubleshooting solutions shown prior to calling your dealer, or Goldacres, for service advice.

Problem	Possible Cause	Possible Remedy
Reel does not wind	Hose jam	Unwind to clear jam
	Overload fuse tripped	Press the Overload reset button
	Fuse blown	Check/replace fuse
	Loose connections	Check battery and connections
	Manual Rewind switch faulty	Check manual switch
	Loose/broken drive belt	Adjust or replace drive belt
	Seized bearings on reel shaft	Replace bearings
Remote does not operate at distance	Damaged aerial or lead	Repair or replace aerial or lead
	Flat Battery	Replace battery
Remote not calibrated with the receiver	Recalibration required	Refer to Calibration instructions
	Faulty transmitter/receiver	Replace batteries
		Replace Remote
		Refer to Calibration instructions
	Battery replaced in remote	Batteries are not correctly fitted

Technical Data

Supply voltage: 11.0 – 28 VDC, 10.0 – 28 VAC. Can use Elsema DC or AC power supply, 12PP1000 or 24PP. 433.920 (Standard), 433.664, 433.408, 433.152 MHz.

433 MHz Frequencies:

Relay Output: Two relays rated at 8 amps /240V each.

Recommended Antenna:

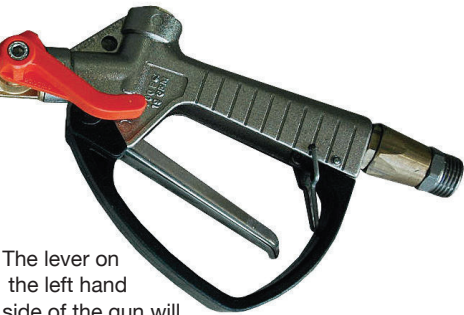
ANT433 series (433MHz Series)

Turbo 400 spray gun

The Turbo 400 spray gun is ideally suited to the pro reel range as it can handle up to 700 psi pressure and a 70 l/min flow rate. It is available with a wide range of nozzles to suit many spraying applications.















The standard nozzle supplied with the Turbo 400 spray gun is a 2.5mm, please check chart as shown below for other nozzle options.



The lever on the left hand side of the gun will adjust the flow from a wide fan with the lever fully down to a pencil flow with the lever fully up, this can be adjusted to gain greater spraying distance when the target is far away.

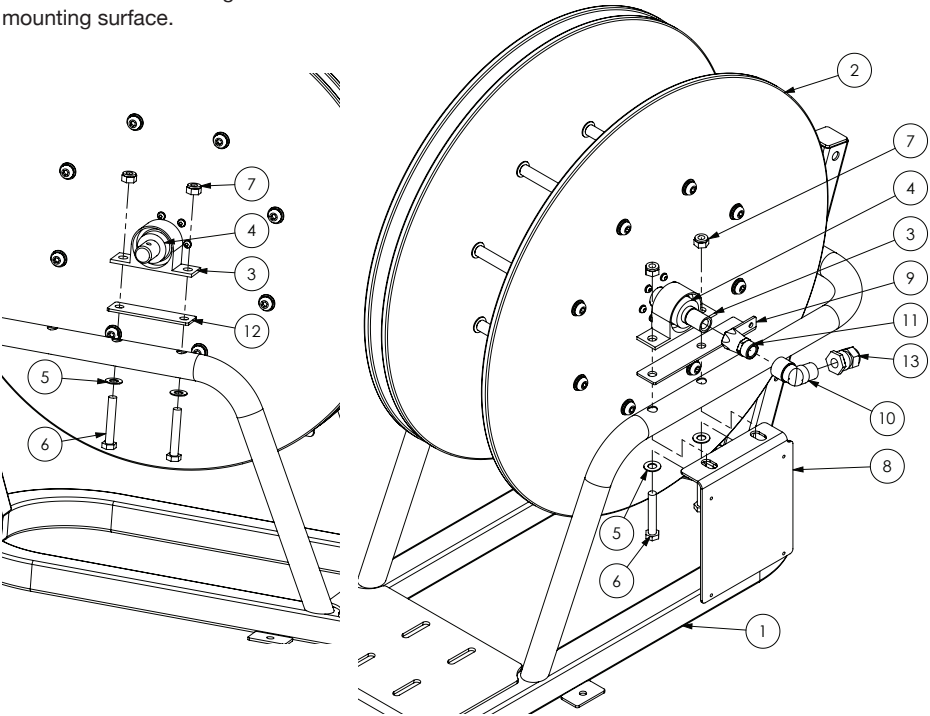
A trigger lock can be used for continuous spraying.

The gun features a “Turbo” Atomiser to produce an extremely fine, soft impact spray ideal for spraying in greenhouses, simply slide the end nozzle should back or forward to alter the spray effect.

CODE	Ø (mm)	l/min (indicative cone nozzle flow rates)											
		5 bar		10 bar		15 bar		25 bar		35 bar		40 bar	
													
GA2000108	1.5	3.28	2.99	4.64	4.22	5.69	5.17	7.34	6.68	8.69	7.90	9.29	8.45
GA2000109	2.0	5.67	4.78	8.02	6.75	9.83	8.27	12.69	10.68	15.01	12.64	16.05	13.51
GA0100018	2.5	8.00	6.34	11.31	8.97	13.85	10.98	17.88	14.18	21.16	16.78	22.62	17.94
GA5071875	3.0	10.08	7.50	14.26	10.61	17.46	12.99	22.54	16.77	26.67	19.85	28.52	21.22
GA5023477	3.5	12.33	8.15	17.44	11.53	21.36	14.12	27.58	18.23	32.63	21.57	34.88	23.06

Pro-Reel Assembly

There are mounting holes drilled in the frame of the Pro-Reel for using to secure the unit to a mounting surface.

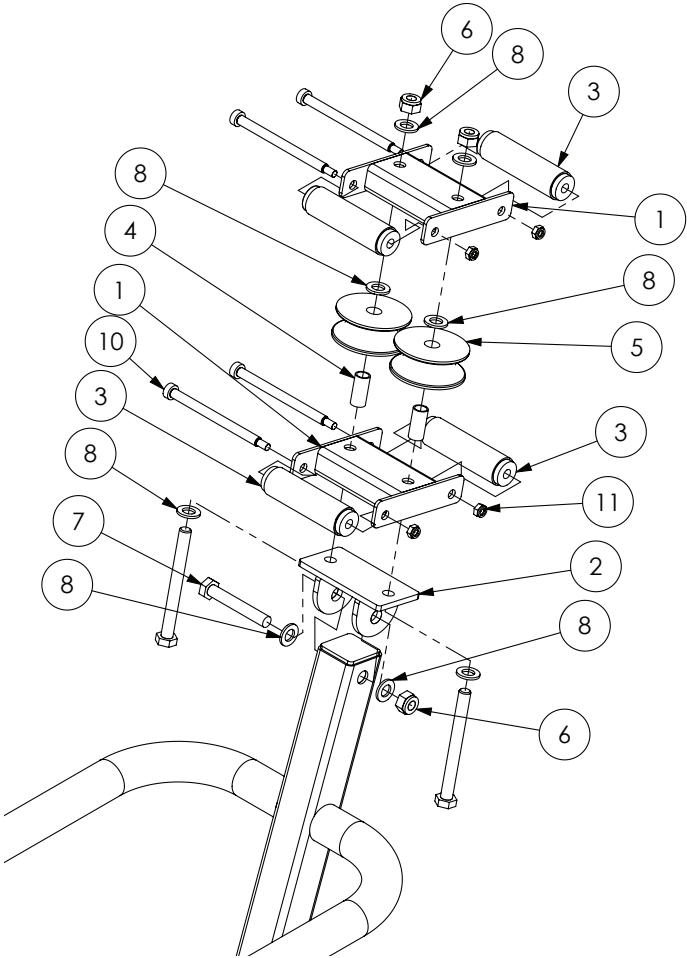


Hose Repair Kit

GA1100053 Sales Kit, Hose Reel Tube Repair, OD 12mm Nylon Tube

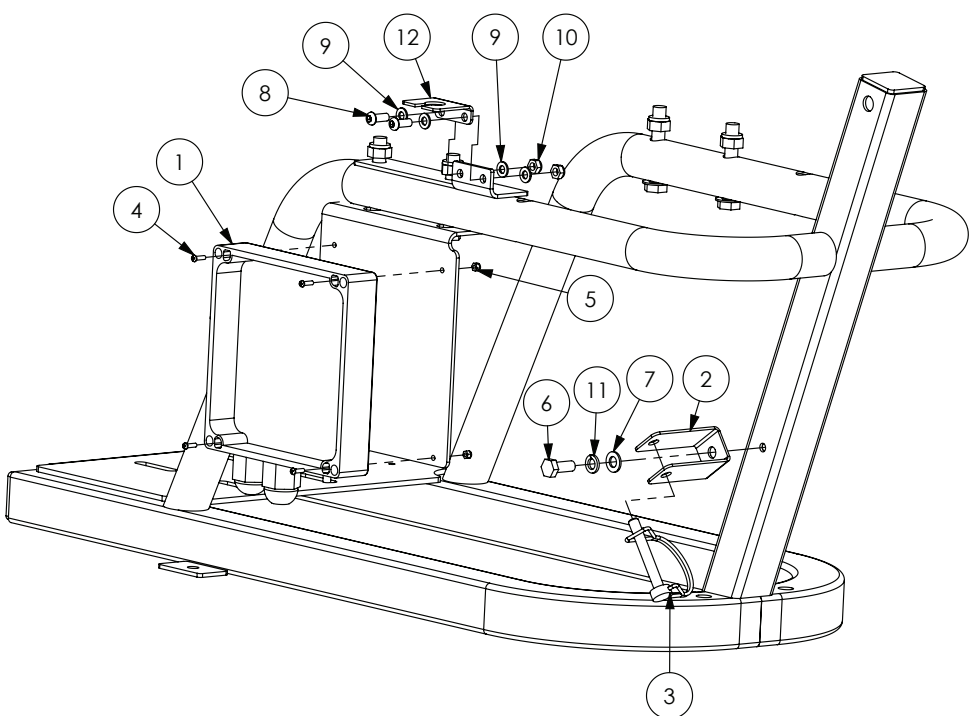
Pos.	Part No.	Description	Qty.
1	GA4660585	Frame, 2015 100m Pro Reel	1
	GA4660510	Frame, 2014 150m Pro Reel	
2	GA4914000	Hose Reel, 100m Assembly	1
3	GA5061735	Housing, to suit SA205-14 Bearing	2
4	GA5061740	Bearing SA205-14	2
5	GA5000115	Washer flat SS 10mm	4
6	GA5011175	Bolt M10 x 60 ZP GR8.8	4
7	GA5000141	Nut M10 Nyloc	4
8	GA4508615	Control Box Mounting Plate	1
9	GA4400155	Plate, Bearing and Antenna Mount, 100-200m Pro Reel	1
10	GA5048150	1/2" BSPT - 1/2" BSPT male, 90 Degree elbow	1
11	GA5023476	1/2" BSPM - 1/2" BSPF Swivel Connection	1
12	GA4400160	Plate, Bearing Mount, Pro Reel	1
13	GA5023170	External compression Fitting, include olive, 1/2" T x 1/2" BSPF C073	1

Hose Guide Assembly



Pos.	Part No.	Description	Qty.
1	GA4600180	Hose Guide roller side	4
2	GA4515455	Hose guide post top plate	1
3	GA5023260	Roller 92mm long	4
4	GA4660365	ERW 12.7mm OD x 1.2mm WT cut 27mm	2
5	GA5023255	Roller Inside pulley (Black Delrin)	2
6	GA5000141	Nut M10 Nyloc	3
7	GA5006101	Bolt M10 x 65 ZP GR8.8	1
8	GA5000117	Washer 10mm SS Heavy duty	8
9	GA5011139	Bolt M10 x 100 Gr4.6 ZP	2
10	GA5023280	Shoulder Bolt Ø8 x 100 x M6 Thread	4
11	GA5048115	Nut M6 Nyloc ZP	4

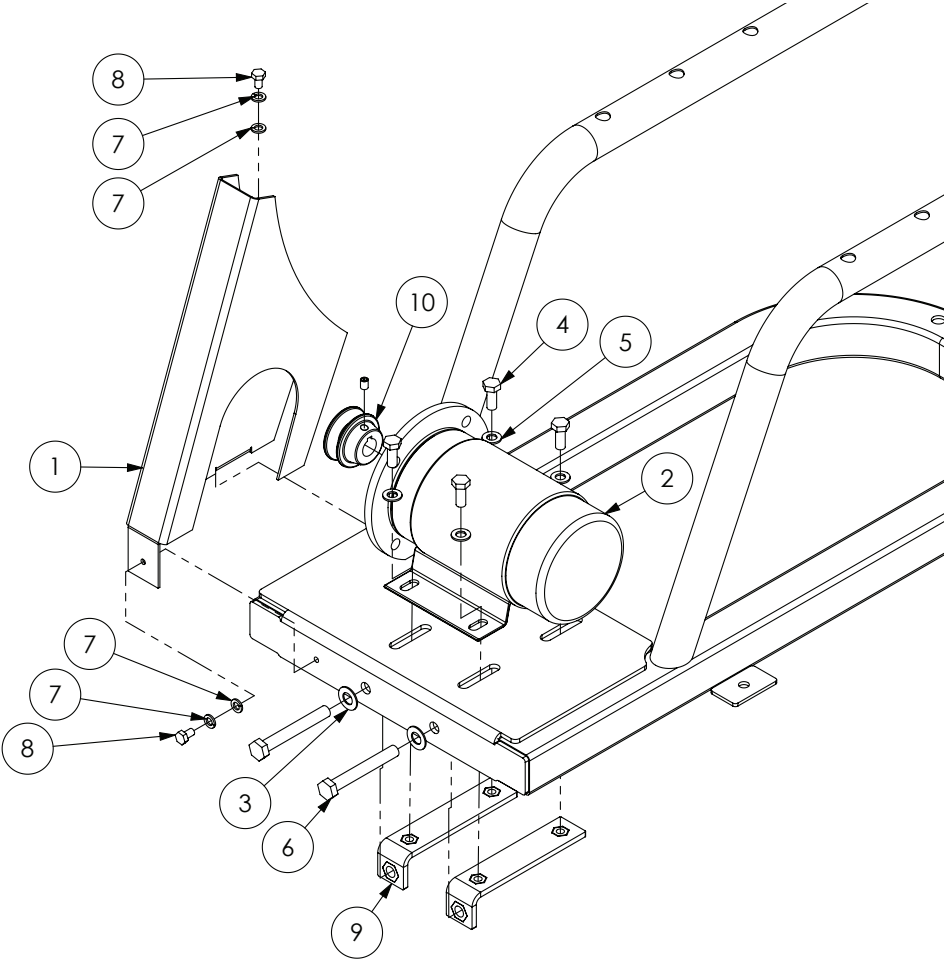
Control Box, Antenna & Gun Mount



Antenna Parts	
GA5061710	Antenna, Auto Wind Control Box, Pro Reel, small SMA connector, pre 2020
GA5061711	Antenna, Auto Wind Control Box, Pro Reel, large N connector
GA5061712	Antenna adaptor, Auto Wind Control Box, Pro reel, small SMA to N connector

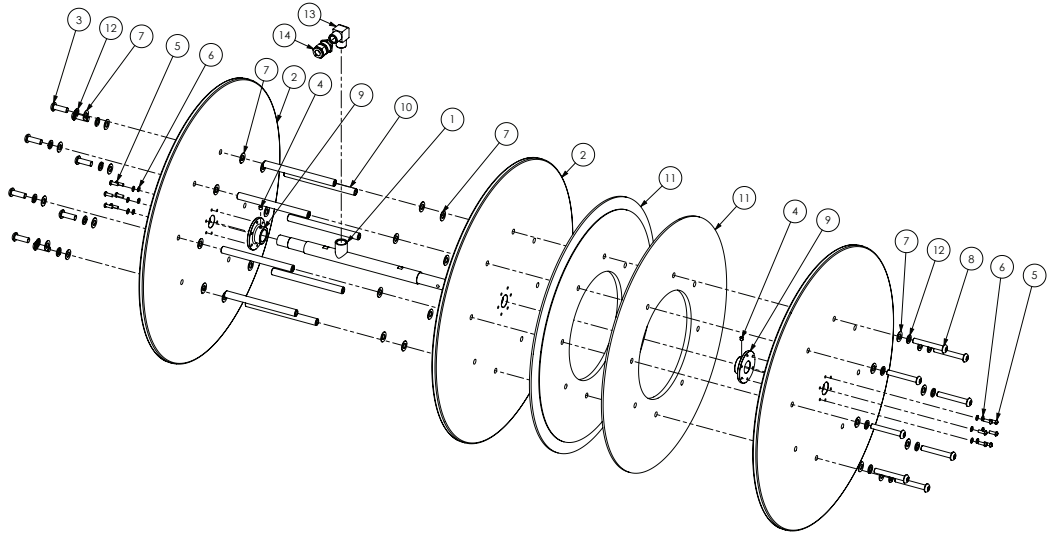
Pos.	Part No.	Description	Qty.
1	GA5063500	Auto wind control box & antenna	1
2	GA4534635	Bracket Nozzle suit small booms	1
3	GA5013003	Pipe linch pin, 8 OD x 60 long	1
4	GA5002237	Pan Head Screw M3 x 35mm	4
5	GA5049465	Nut M3 Nyloc SS	4
6	GA5004085	Bolt M8 x 20	1
7	GA5003643	Washer 8mm HD SS	1
8	GA5004050	BHCS M6 x 16mm SS	2
9	GA5004437	Washer 6mm SS	4
10	GA5048115	Nut M6 Nyloc ZP	2
11	GA5004919	Washer 8mm Spring SS	1
12	-	Antenna Mount Plate - Included with antenna	1

Electric Motor & Guard Mounting 100m



Pos.	Part No.	Description	Qty.
1	GA4400035	Pro Reel 100 m Belt Guard	1
2	GA5052970	DC series 4 electric motor for hose reel	1
3	GA5000115	Washer 10mm Flat SS	2
4	GA5004085	Bolt M8 x 20	4
5	GA5003643	Washer 8mm HD SS	4
6	GA5006073	Bolt M10 x 75 ZP GR8.8	2
7	GA5004447	Washer 6mm Spring SS	4
8	GA5004029	Bolt M6 x 10	2
9	GA4660515	Adjuster Bracket, Pro Reel Motor 2014	2
10	GA5072120	Pulley, PCD 1½", 16mm bore, 5mm keyway	1

Hose Reel 100m



Hose Repair Kit

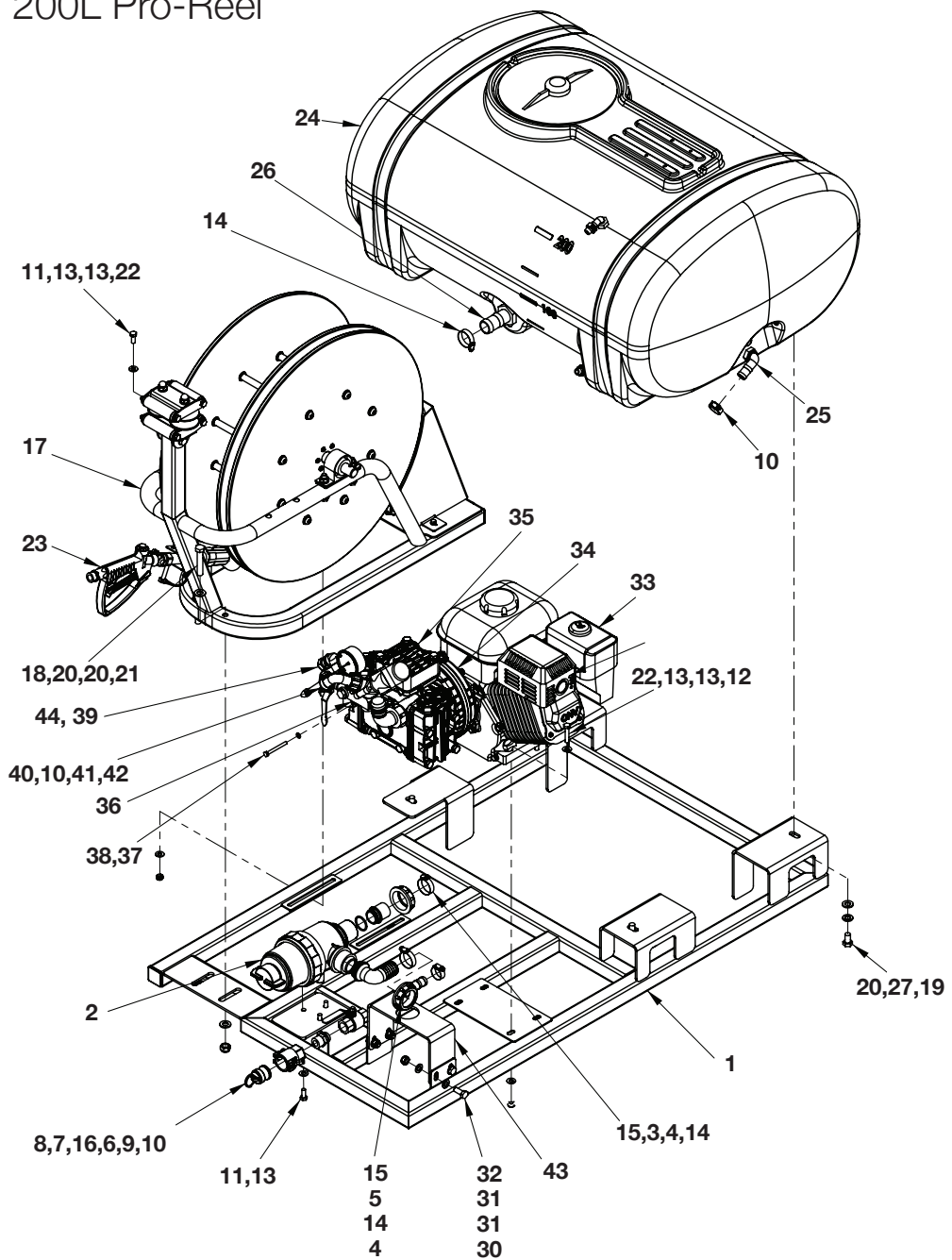
GA1100053 Sales Kit, Hose Reel Tube Repair, OD 12mm Nylon Tube

V-Belt

GA5023910 V Belt, A73 Size, suit Pro-Reel

Pos.	Part No.	Description	Qty.
1	GA4600085	Pro Reel, Shaft Assembly	1
2	GA4583425	Side Plate, Hose Reel Remote Control	3
3	GA5048120	BHCS M10 x 30	8
4	GA0500007	Grub Screw, 1/4" UNF	2
5	GA5069975	BHCS M5 x 16mm SS	12
6	GA5003983	Washer 5mm SS	12
7	GA5000115	Washer 10mm Flat SS	32
8	GA0500005	BHCS M10 x 70	8
9	GA4583455	Flange, Bolt on, suit hose reel shaft	2
10	GA4583125	Spacer Hose Reel Remote Control Long	8
11	GA5071975	V Belt Plate, Hose Reel Remote Control	2
12	GA5000137	Washer 10mm Spring SS	16
13	GA5023610	Brass Elbow 1/2" x 1/2" Male Thread	1
14	GA5023170	External compression Fitting, include olive 1/2" T x 1/2" BSPF C073	1
15	GA5023495	Pro Reel 1/2" Nylon Hose 100m (not shown)	1

200L Pro-Reel

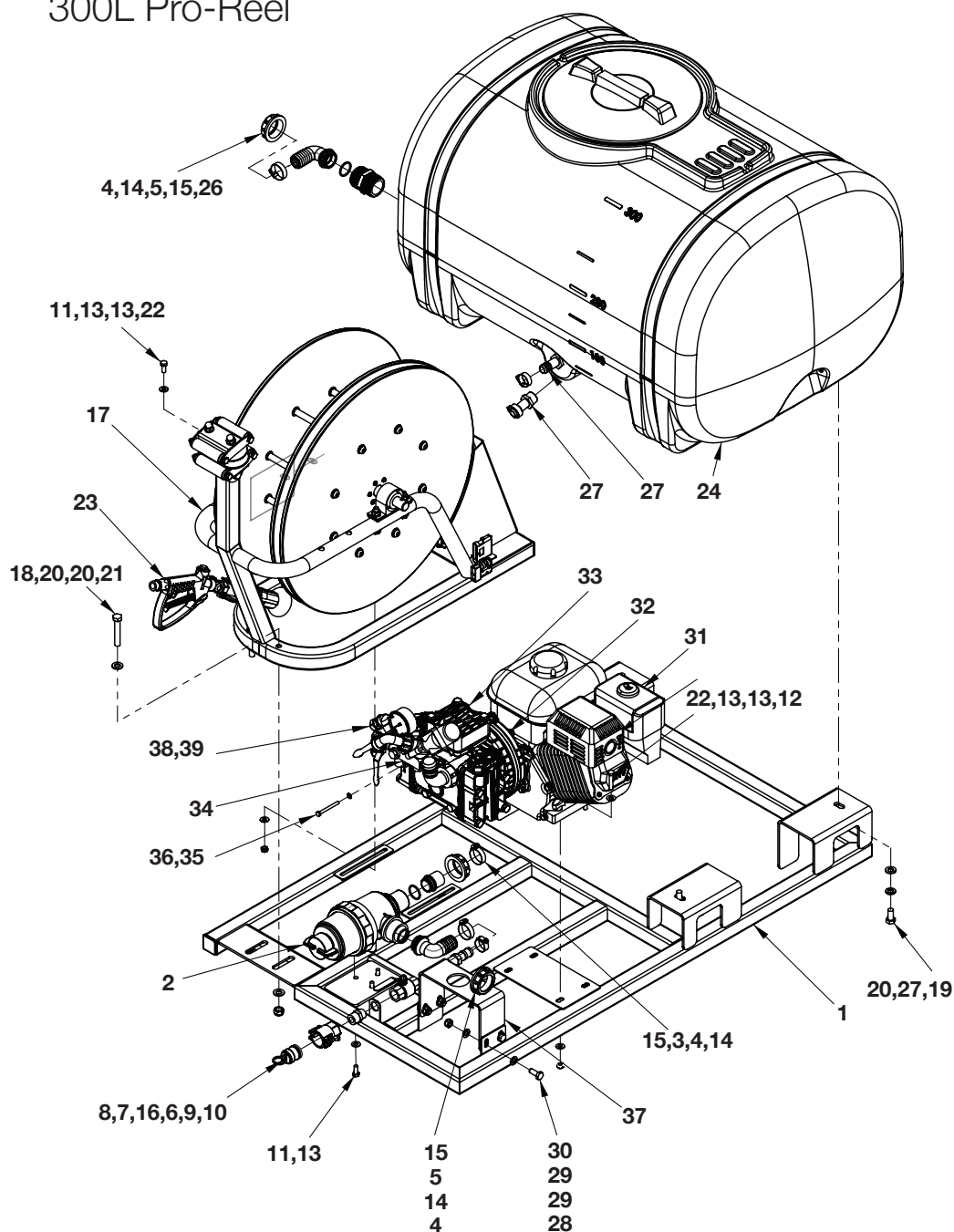


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200L Pro-Reel

Pos.	Part No.	Description	Qty.
1	GA4660845	Frame, 200-400L, Suit Pro Reel Traymounts,	1
2	GA2000106	Suction Filter, 1-½" 50 Mesh, 1-½" BSP Male Threads, Geoline	1
3	GA5076712	COUPLING 1¼M FOR FLY NUT 1½	1
4	GA5076604	Fly nut, 1½, Arag	2
5	GA5076259	Hose barb, Elbow, 90 degree, 1½ fly nut end x 32 mm hose, Arag	1
6	GA5018309	Valve, Ball, 12mm, ½" female, Lever handle, Brass	10
7	GA5077132	Cam lever, ¾" female coupling x ¾" female thread, Banjo	1
8	GA5077137	Plug, Cam lever, ¾" male, Banjo	1
9	GA5077707	Hose barb, ½" male thread x ¾" hose, Banjo	1
10	GA5000999	¾" SS hose clamp	4
11	GA5004085	Bolt M8 x 20 GR8.8 ZP	5
12	GA5048655	Bolt M8 x 40 GR8.8 ZP	4
13	GA5003643	Washer 8mm Flat ZP HD	15
14	GA5002783	Hose Clamp, 1¼", SS (30-45/13W)	3
15	GA5077679	O ring, 30 x 3, G10061	2
16	GA5012273	Nipple Reducing ½" x ¾"	1
17	GA4904584	2015 100m Pro Reel Assembly	1
18	GA5000339	Bolt M12 x 65 GR8.8 ZP	2
19	GA5011227	Bolt M12 x 20 GR8.8 ZP	4
20	GA5000577	Washer 12mm Flat SS HD	8
21	GA5012461	Nut M12 Nyloc ZP	2
22	GA5052590	Nut M8 Nyloc SS	6
23	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	1
24	GA8500007	Tank, 200L, Flat Base	1
25	GA5077717	Hose barb, Elbow, 90 degree, ¾" male thread x ¾" hose, Banjo	2
26	GA5077724	Hose barb, Straight, 1¼" male thread x 1¼" hose, Banjo	1
27	GA5000575	Washer 12mm Spring SS	4
28	GA5077708	Hose barb, Elbow, 90 degree, ½" male thread x ½" hose, Banjo, HB050-90	2
29	GA5007231	Hose clamp, Cobra type, ½"	2
30	GA5006161	Bolt M10 x 25 GR8.8 ZP	4
31	GA5000117	Washer 10mm Flat SS HD	8
32	GA5051445	Nut M10 Nyloc SS	4
33	GA5023085	Honda engine ¾" shaft	1
34	GA5072295	Reduction Gearbox, Ratio 6:1, S160-¾ GR, Suit Delta 40-50 GR	1
35	GA5072285	Pump, Delta 40 GR	1
36	GA5077650	Pressure control unit, valve, DS3, 3 section, 20 Bar, Udor	1
37	GA5004437	Washer 6mm Flat SS	2
38	GA5004097	Bolt M6 x 60 GR8.8 ZP	2
39	GA5048150	½" BSPT - ½" BSPT male 90° elbow	2
40	GA5075745	Hose barb, Elbow, 90 degree, Fly nut end x 20mm hose, Udor, 025404	1
41	GA5076067	O ring, 17.13 x 2.62, 110112	1
42	GA5075791	Fly nut, M30, Udor, 060426	1
43	GA4400415	Plate, Delta 40 Pump Mount, 200-400L kubota RTV	1
44	GA5023170	External compression Fitting inc olive ½Tx½BSPF C073	2

300L Pro-Reel

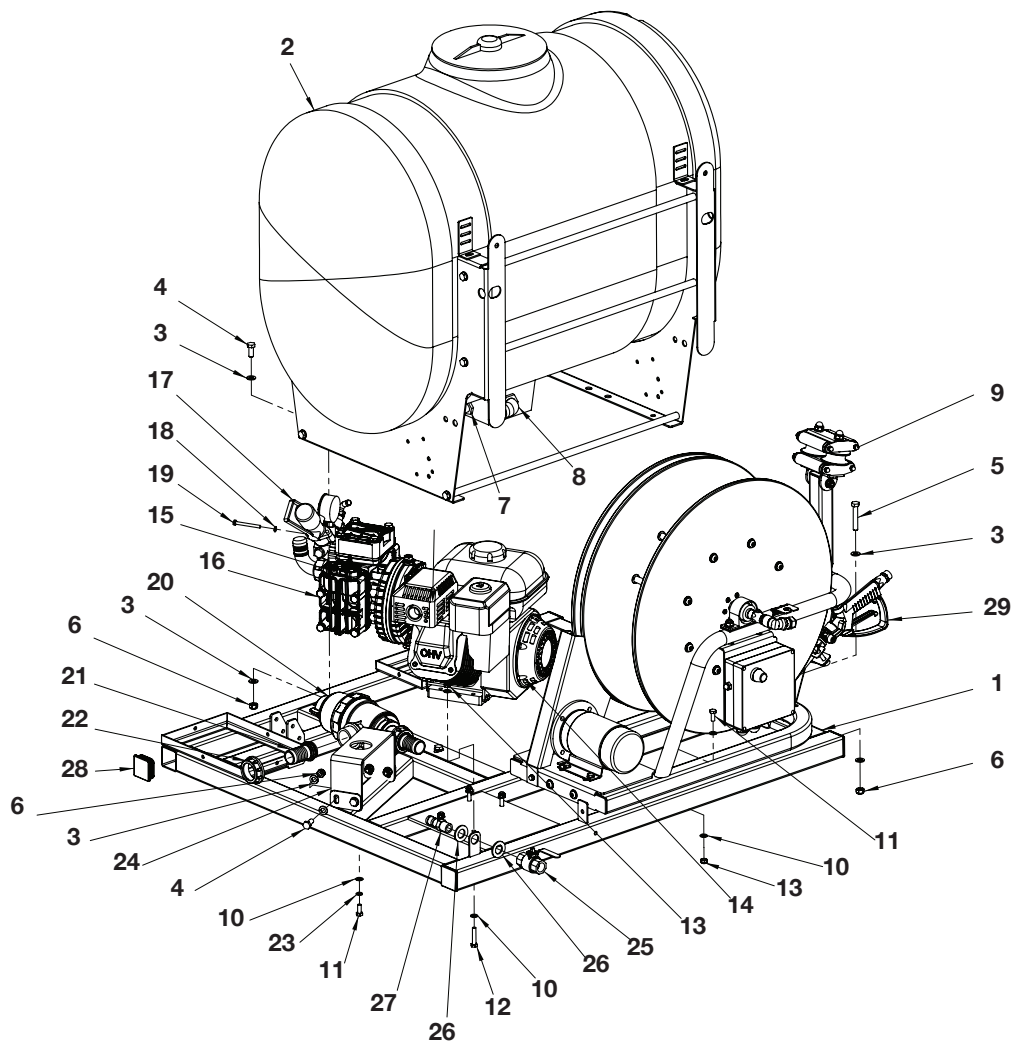


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300L Pro-Reel

Pos.	Part No.	Description	Qty.
1	GA4660845	Frame, 200-400L, Suit Pro Reel Traymounts,	1
2	GA2000106	Suction Filter, 1-1/2" 50 Mesh, 1-1/2" BSP Male Threads, Geoline	1
3	GA5076712	COUPLING 1 1/4M FOR FLY NUT 1 1/2	1
4	GA5076604	Fly nut, 1 1/2, Arag	3
5	GA5076259	Hose barb, Elbow, 90 degree, 1 1/2 fly nut end x 32 mm hose, Arag	2
6	GA5018309	Valve, Ball, 12mm, 1/2" female, Lever handle, Brass	1
7	GA5077132	Cam lever, 3/4" female coupling x 3/4" female thread, Banjo	1
8	GA5077137	Plug, Cam lever, 3/4" male, Banjo	1
9	GA5077707	Hose barb, 1/2" male thread x 3/4" hose, Banjo	1
10	GA5000999	3/4" SS hose clamp	4
11	GA5004085	Bolt M8 x 20 GR8.8 ZP	5
12	GA5048655	Bolt M8 x 40 GR8.8 ZP	4
13	GA5003643	Washer 8mm Flat ZP HD	15
14	GA5002783	Hose Clamp, 1 1/4", SS (30-45/13W)	3
15	GA5077679	O ring, 30 x 3, G10061	3
16	GA5012273	Nipple Reducing 1/2" x 3/4"	1
17	GA4904584	2015 100m Pro Reel Assembly	1
18	GA5000347	Bolt M12 x 70 GR8.8 ZP	2
19	GA5011229	Bolt M12 x 25 GR8.8 ZP	4
20	GA5000577	Washer 12mm Flat SS HD	8
21	GA5012461	Nut M12 Nyloc ZP	2
22	GA5052590	Nut M8 Nyloc SS	6
23	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	1
24	GA8500008	Tank, 300L, Flat Base	1
25	GA5000575	Washer 12mm Spring SS	4
26	GA5077916	Nipple, Short, 1 1/2" thread x 1 1/2" thread, Banjo	1
27	GA5077709	Hose barb, Straight, 3/4" male thread x 3/4" hose, Banjo	2
28	GA5066162	Bolt M10 x 25 SS	4
29	GA5000117	Washer 10mm Flat SS HD	8
30	GA5051445	Nut M10 Nyloc SS	4
31	GA5023085	Honda engine 3/4" shaft	1
32	GA5072295	Reduction Gearbox, Ratio 6:1, S160-3/4 GR, Suit Delta 40-50 GR	1
33	GA5072285	Pump, Delta 40 GR	1
34	GA5077650	Pressure control unit, valve, DS3, 3 section, 20 Bar, Udor	1
35	GA5004437	Washer 6mm Flat SS	2
36	GA5004097	Bolt M6 x 60 GR8.8 ZP	2
37	GA4400415	Plate, Delta 40 Pump Mount, 200-400L kubota RTV	1
38	GA5023170	External compression Fitting inc olive 1/2Tx1/2BSPF C073	2
39	GA5048150	1/2" BSPT - 1/2" BSPT male 90° elbow	2

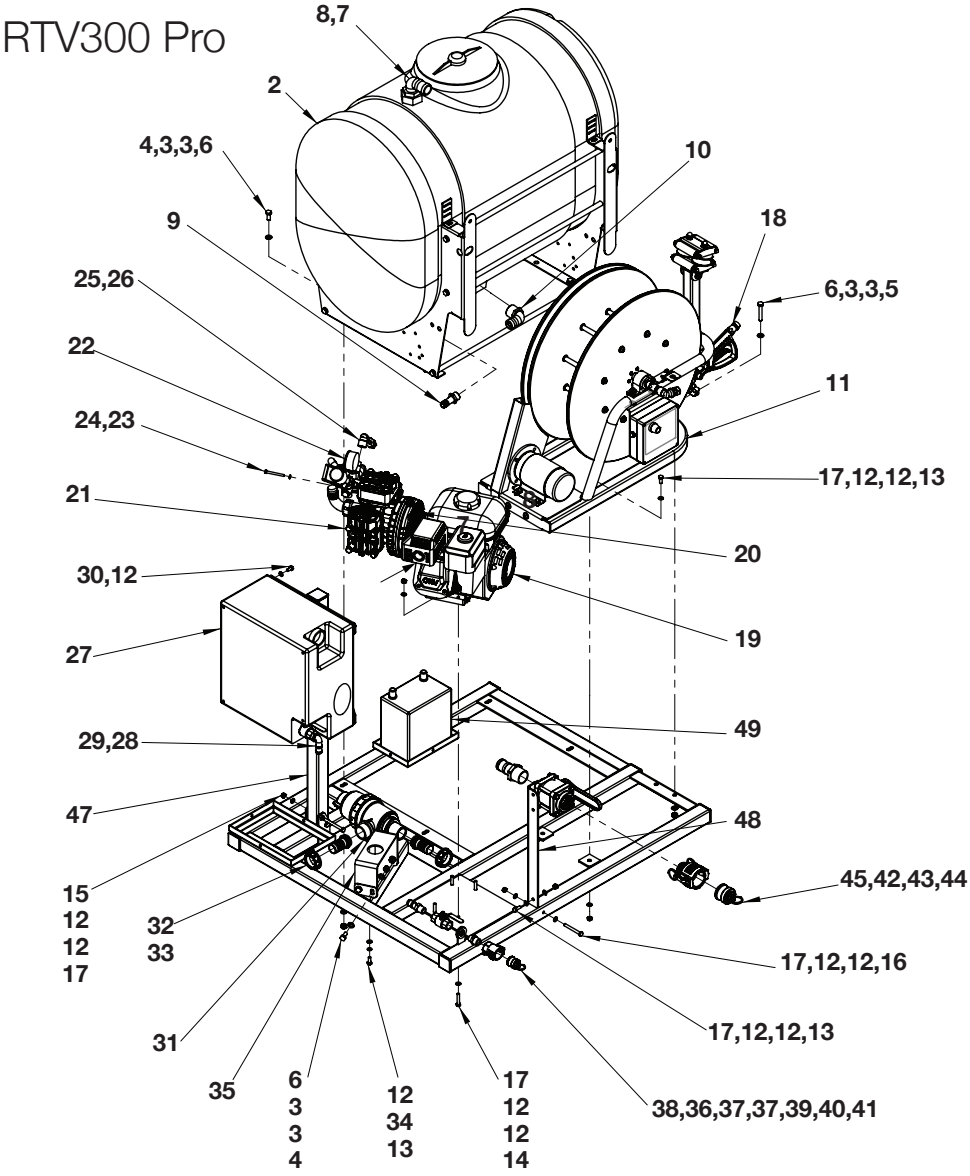
RTV300 WR



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RTV300 WR

Pos.	Part No.	Description	Qty.
1	GA4600990	Frame, UTV Pro Reel	1
2	GA4901107	Tank, 300 Litre, XL Tube, Lid, Strainer, Straps, Sight Tube and Cradle	1
3	GA5000117	Washer 10mm Flat SS HD	20
4	GA5006161	Bolt M10 x 25 GR8.8 ZP	8
5	GA5011175	Bolt M10 x 60 GR8.8 ZP	2
6	GA5000141	Nut M10 Nyloc ZP	10
7	GA5077709	Hose barb, Elbow, 90 degree, 1 male thread x 1¼ hose, Banjo	1
8	GA5077720	2015 100m Pro Reel Assembly	1
9	GA4904584	2015 100m Pro Reel Assembly	1
10	GA5003643	Washer 8mm Flat SS HD	15
11	GA5004085	Bolt M8 x 20 GR8.8 ZP	5
12	GA5048655	Bolt M8 x 40 GR8.8 ZP	4
13	GA5004917	Nut M8 Nyloc ZP	6
14	GA5023085	Honda engine ¾" shaft	1
15	GA5072295	Reduction Gearbox, Ratio 6:1, S160-¾ GR, Suit Delta 40-50 GR	1
16	GA5072285	Pump, Delta 40 GR	1
17	GA5077650	Pressure control unit, valve, DS3, 3 section, 20 Bar, Udor	1
18	GA5004437	Washer 6mm Flat SS	2
19	GA5004097	Bolt M6 x 60 GR8.8 ZP	2
20	GA2000106	Suction Filter, 1½" 50 Mesh, 1½" BSP Male Threads, Geoline	1
21	GA5076037	Hose barb, Straight, 1½ fly nut end x 32mm hose, Arag	2
22	GA5076604	Fly nut, 1½, Arag	2
23	GA5004919	Washer 8mm Spring SS	3
24	GA4400415	Plate, Delta 40 Pump Mount, 200-400L kubota RTV	1
25	GA5018309	Valve, Ball, 12mm, ½" female, Lever handle, Brass	1
26	GA5001741	M20 Heavy S.S. Duty Flat Washer	2
27	GA5077707	Hose barb, ½ male thread x ¾ hose, Banjo	1
28	GA5003783	50 x 50 square tube insert black	5
29	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	1



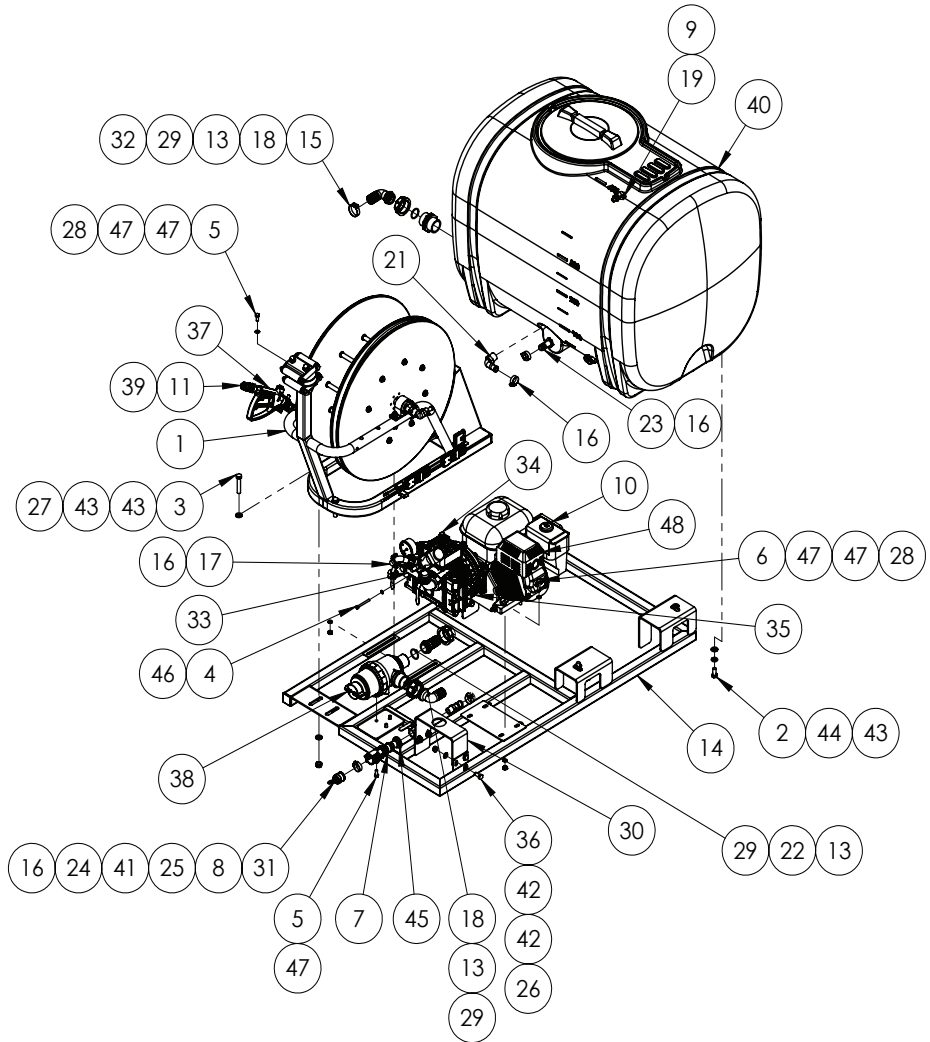
Pos.	Part No.	Description	Qty.
1	GA4600990	Frame, UTV Pro Reel	1
2	GA4901107	Tank, 300 Litre, XL Tube, Lid, Strainer, Straps, Sight Tube And Cradle	1
3	GA5000117	Washer 10mm Flat SS HD	20
4	GA5006161	Bolt M10 x 25 GR8.8 ZP	8
5	GA5011175	Bolt M10 x 60 GR8.8 ZP	2
6	GA5000141	Nut M10 Nyloc ZP	10

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RTV300 Pro

Pos.	Part No.	Description	Qty.
7	GA4582510	Reducer bush 2" M to 1½" F suit skid base tank	1
8	GA5077736	Hose barb, Elbow, 90 degree, 1½" male thread x 1½" hose, Banjo	1
9	GA5077709	Hose barb, Straight, ¾" male thread x ¾" hose, Banjo	1
10	GA5077720	Hose barb, Elbow, 90 degree, 1" male thread x 1¼" hose, Banjo	15
11	GA4904584	2015 100m Pro Reel Assembly	5
12	GA5003643	Washer 8mm Flat SS HD	4
13	GA5004085	Bolt M8 x 20 GR8.8 ZP	6
14	GA5048655	Bolt M8 x 40 GR8.8 ZP	1
15	GA5004749	Bolt M8 x 80 GR8.8 ZP	1
16	GA5004738	Bolt M8 x 75 GR8.8 ZP	1
17	GA5004917	Nut M8 Nyloc ZP	1
18	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	2
19	GA5023630	Subaru petrol engine with electric start and ¾" shaft plus 200 watt power feed	2
20	GA5072295	Reduction Gearbox, Ratio 6:1, S160-¾ GR, Suit Delta 40-50 GR	1
21	GA5072285	Pump, Delta 40 GR	2
22	GA5077650	Pressure control unit, valve, DS3, 3 section, 20 Bar, Udor	2
23	GA5004437	Washer 6mm Flat SS	3
24	GA5004097	Bolt M6 x 60 GR8.8 ZP	1
25	GA5048150	½" BSPT - ½" BSPT male 90° elbow	1
26	GA5023170	External compression Fitting inc olive ½Tx½BSPF C073	2
27	GA5023525	Hand Wash Tank 23lt	1
28	GA5018317	Valve, Ball, 20mm, ¾" male, female, Lever handle, Brass	5
29	GA5077717	Hose barb, Elbow, 90 degree, ¾" male thread x ¾" hose, Banjo	1
30	GA5004693	Set Screw M8 x 16 GR8.8 ZP	15
31	GA2000106	Suction Filter, 1-½" 50 Mesh, 1-½" BSP Male Threads, Geoline	5
32	GA5076037	Hose barb, Straight, 1½" fly nut end x 32mm hose, Arag	4
33	GA5076604	Fly nut, 1½", Arag	6
34	GA5004919	Washer 8mm Spring SS	1
35	GA4400415	Plate, Delta 40 Pump Mount, 200-400L kubota RTV	1
36	GA5018309	Valve, Ball, 12mm, ½" female, Lever handle, Brass	1
37	GA5001741	M20 Heavy S.S. Duty Flat Washer	1
38	GA5077707	Hose barb, ½" male thread x ¾" hose, Banjo	2
39	GA5012273	Nipple Reducing ½" x ¾"	2
40	GA5077132	Cam lever, ¾" female coupling x ¾" female thread, Banjo	1
41	GA5077137	Plug, Cam lever, ¾" male, Banjo	2
42	GA5078185	Valve, Ball, 1½" female threaded inlet / outlet, Full port, Lever handle, Banjo, V150	2
43	GA5076461	Cam lever, 1½" female coupling x 1½" male thread, Banjo	3
44	GA5076470	Cam lever, 1½" male plug, Banjo	1
45	GA5077731	Hose barb, Straight, 1½" male thread x 1½" hose, Banjo	1
46	GA5003783	50 x 50 square tube insert black	2
47	GA4600995	Post, Hand Wash, UTV Pro Reel	1
48	GA4401810	Plate, Support Post, UTV Pro Reel	5
49	GA5023500	Battery NS40-330D suit Autowind Sprayer	1

400L Pro-Reel



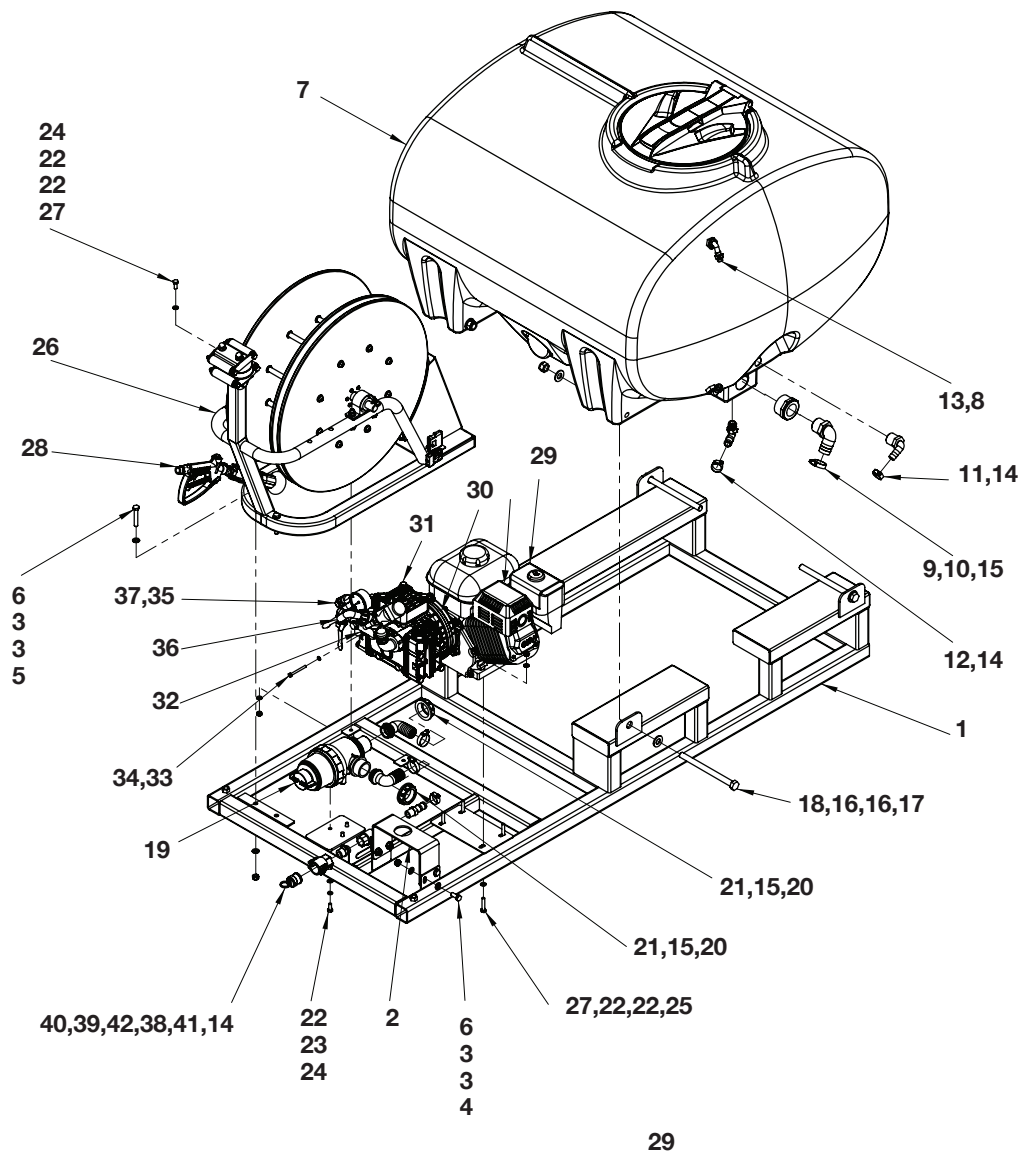
Pos.	Part No.	Description	Qty.
1	GA4904584	Pro-reel, 100m, LH	1
2	GA5011229	Set Screw M12 x 25 GR8.8 ZP	4
3	GA5000339	Bolt M12 x 65 GR8.8 ZP	2
4	GA5004097	Bolt M6 x 60 GR8.8 ZP	2
5	GA5004085	Set Screw M8 x 20 GR8.8 ZP	5
6	GA5048655	Bolt M8 x 40 GR8.8 ZP	4
7	GA5077133	Cam lever hose barb, 3/4 male coupling x 3/4 hose, Banjo, 75E	1
8	GA5077132	Cam lever, 3/4 female coupling x 3/4 female thread, Banjo, 75D	1

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400L Pro-Reel

Pos.	Part No.	Description	Qty.
9	GA5007231	Cobra Clamp 15/8 W4 VPE, 108 7006 015	2
10	GA5023085	Engine, GX200, 3/4" shaft, Honda	1
11	GA5023170	External compression Fitting inc olive 1/2Tx1/2BSPF C073	1
12	GA5076714	Filter, Basket type, Diameter 305 x 245mm deep, Suit main spray tank, 300120	1
13	GA5076604	Fly nut, 1 1/2, Arag, 2002060	3
14	GA4660845	Frame, 200-400L, Suit Pro Reel Traymount, MY16	1
15	GA5002783	Hose Clamp, 1 1/4, SS (30-45/13W)	1
16	GA5000999	Hose clamp, 3/4" SS (16-27/12W)	5
17	GA5075745	Hose barb, Elbow, 90 degree, Fly nut end x 20mm hose, Udor, 025404	1
18	GA5076259	Hose barb, Elbow, 90 degree, 1 1/2 fly nut end x 32 mm hose, Arag, 116633	2
19	GA5077708	Hose barb, Elbow, 90 degree, 1/2 male thread x 1/2 hose, Banjo, HB050-90	2
20	GA5075657	Hose barb, Elbow, 90 degree, 13mm hose, including 1/2 fly nut and seal, Brass, Arag, 006530	1
21	GA5077717	Hose barb, Elbow, 90 degree, 3/4 male thread x 3/4 hose, Banjo, HB075-90	1
22	GA5076037	Hose barb, Straight, 1-1/2 fly nut end x 1-1/4 hose barb, Arag, 106633	1
23	GA5077709	Hose barb, Straight, 3/4 male thread x 3/4 hose, Banjo, HB075	1
24	GA5077707	Hose barb, 1/2 male thread x 3/4 hose, Banjo, HB050-075	1
25	GA5012273	Nipple reducing 1/2 x 3/4	1
26	GA5000141	Nut M10 Nyloc ZP	4
27	GA5012461	Nut M12 Nyloc ZP	2
28	GA5004917	Nut M8 Nyloc ZP	6
29	GA5077679	O ring, 30 x 3mm, G10061	3
30	GA4400415	Plate, Delta 40 Pump Mount, 200-400L Kubota RTV	1
31	GA5077137	Plug, Cam lever, 3/4 male, Banjo, 75PL	1
32	GA5078409	Plumbing fitting, Nipple, 1 1/2", Arag, 2502060	1
33	GA5077650	Pressure control unit, valve, DS3, 3 section, 30 Bar, Udor	1
34	GA5072285	Pump, Delta 40 GR	1
35	GA5072295	Reduction Gearbox, Ratio 6:1, S160-3/4 GR, Suit Delta 40-50 GR	1
36	GA5006161	Set Screw M10 x 25 GR8.8 ZP	4
37	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	1
38	GA2000106	Suction Filter, 1-1/2" 50 Mesh, 1-1/2" BSP Male Threads, Geoline	1
39	GA2000362	Swivel, Ball Bearing, Brass, 1/2" BSP Male / Female	1
40	GA8500009	Tank, 400L, Flat Base with Sump, c/w Black Lid	1
41	GA5018309	Valve, Ball, 12mm, 1/2" female, Lever handle, Brass	1
42	GA5000117	Washer M10 Flat SS HD	8
43	GA5000577	Washer M12 Flat SS HD	12
44	GA5000575	Washer 12mm Spring SS	4
45	GA5001741	Washer M20 Flat SS HD	2
46	GA5004437	Washer M6 Flat SS	2
47	GA5003643	Washer M8 Flat SS HD	15
48	GA5023456	Muffler Deflector, suit GX series honda engine	1

600L Pro-Reel

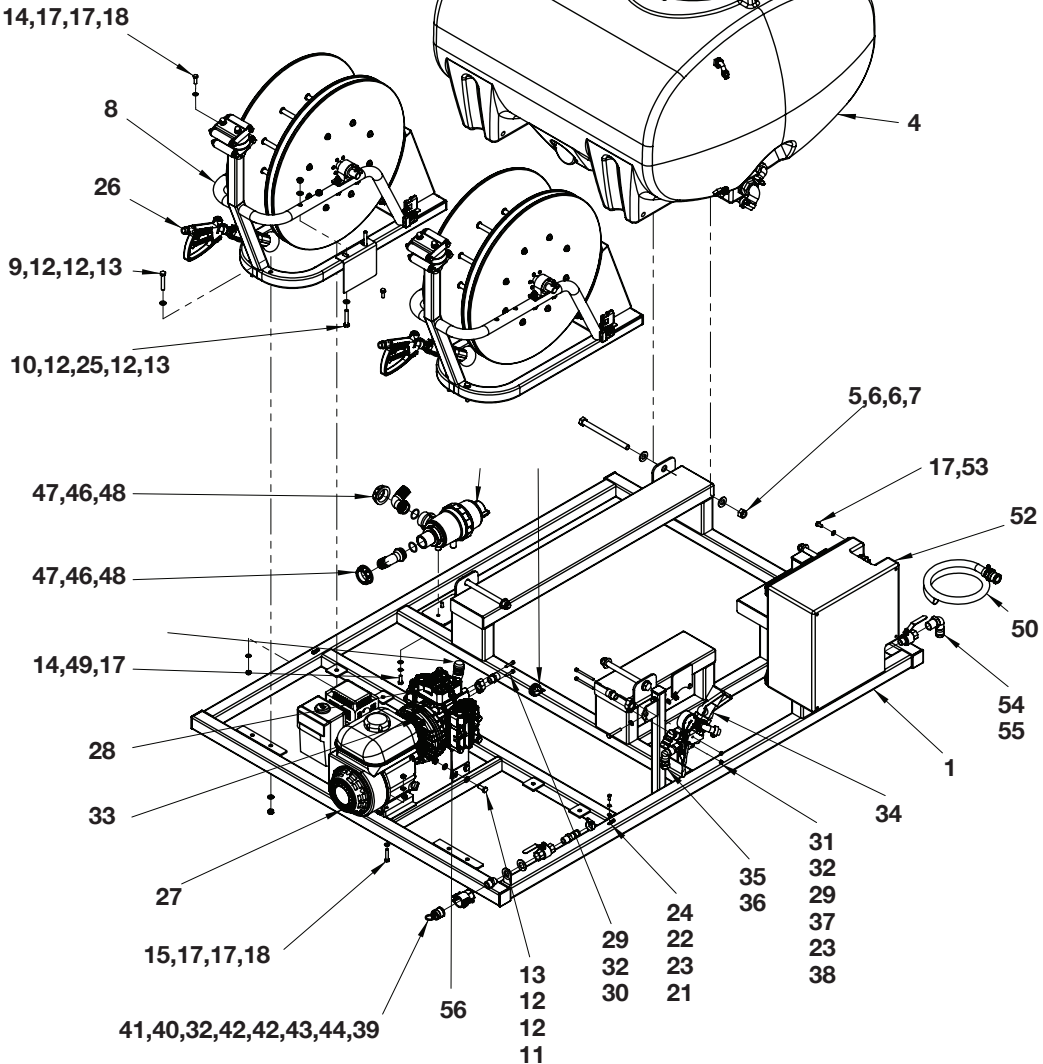


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600L Pro-Reel

Pos.	Part No.	Description	Qty.
1	GA4600905	Frame, 600L, Traymount, Pro Reel	1
2	GA4400415	Plate, Delta 40 Pump Mount, 200-400L kubota RTV	1
3	GA5000117	Washer 10mm Flat SS HD	12
4	GA5006161	Bolt M10 x 25 GR8.8 ZP	4
5	GA5011175	Bolt M10 x 60 GR8.8 ZP	2
6	GA5000141	Nut M10 Nyloc ZP	6
7	GA5023135	600lt Cartage Spray tank with sump and lid	1
8	GA5077710	Hose barb, Elbow, 90 degree, ¾" male thread x ½" hose, Banjo	2
9	GA5078022	Reducing bush, 2" male thread x 1¼" female thread, Banjo	1
10	GA5077730	Hose barb, Elbow, 90 degree, 1¼" male thread x 1¼" hose, Banjo	1
11	GA5077719	Hose barb, Elbow, 90 degree, 1" male thread x ¾" hose, Banjo	1
12	GA5077704	Hose barb, Elbow, 90 degree, ½" male thread x ¾" hose, Banjo	1
13	GA5007231	Hose clamp, Cobra type, ½"	2
14	GA5000999	¾" SS hose clamp	3
15	GA5002783	Hose Clamp, 1¼", SS (30-45/13W)	3
16	GA5001009	Washer 16mm Flat ZP HD	8
17	GA5000891	Bolt M16 x 210 GR8.8 ZP	4
18	GA5069145	Nut M16 x 1.5P Nyloc ZP	4
19	GA2000106	Suction Filter, 1-½" 50 Mesh, 1-½" BSP Male Threads, Geoline	1
20	GA5076604	Fly nut, 1½", Arag	2
21	GA5076259	Hose barb, Elbow, 90 degree, 1½" fly nut end x 32mm hose, Arag	2
22	GA5003643	Washer 8mm Flat SS HD	15
23	GA5004919	Washer 8mm Spring SS	3
24	GA5004085	Bolt M8 x 20 GR8.8 ZP	5
25	GA5048655	Bolt M8 x 40 GR8.8 ZP	4
26	GA4904584	2015 100m Pro Reel Assembly	1
27	GA5052590	Nut M8 Nyloc SS	6
28	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	1
29	GA5023085	Honda engine ¾" shaft	1
30	GA5072295	Reduction Gearbox, Ratio 6:1, S160-¾ GR, Suit Delta 40-50 GR	1
31	GA5072285	Pump, Delta 40 GR	1
32	GA5077650	Pressure control unit, valve, DS3, 3 section, 20 Bar, Udor	1
33	GA5004437	Washer 6mm Flat SS	2
34	GA5004097	Bolt M6 x 60 GR8.8 ZP	2
35	GA5048150	½" BSPT - ½" BSPT male 90° elbow	2
36	GA5075745	Hose barb, Elbow, 90 degree, Fly nut end x 20mm hose, Udor, 025404	1
37	GA5023170	External compression Fitting inc olive ½"Tx½"BSPF C073	2
38	GA5018309	Valve, Ball, 12mm, ½" female, Lever handle, Brass	1
39	GA5077132	Cam lever, ¾" female coupling x ¾" female thread, Banjo	1
40	GA5077137	Plug, Cam lever, ¾" male, Banjo	1
41	GA5077707	Hose barb, ½" male thread x ¾" hose, Banjo	1
42	GA5012273	Nipple Reducing ½" x ¾"	1

600L Twin Pro-Reel

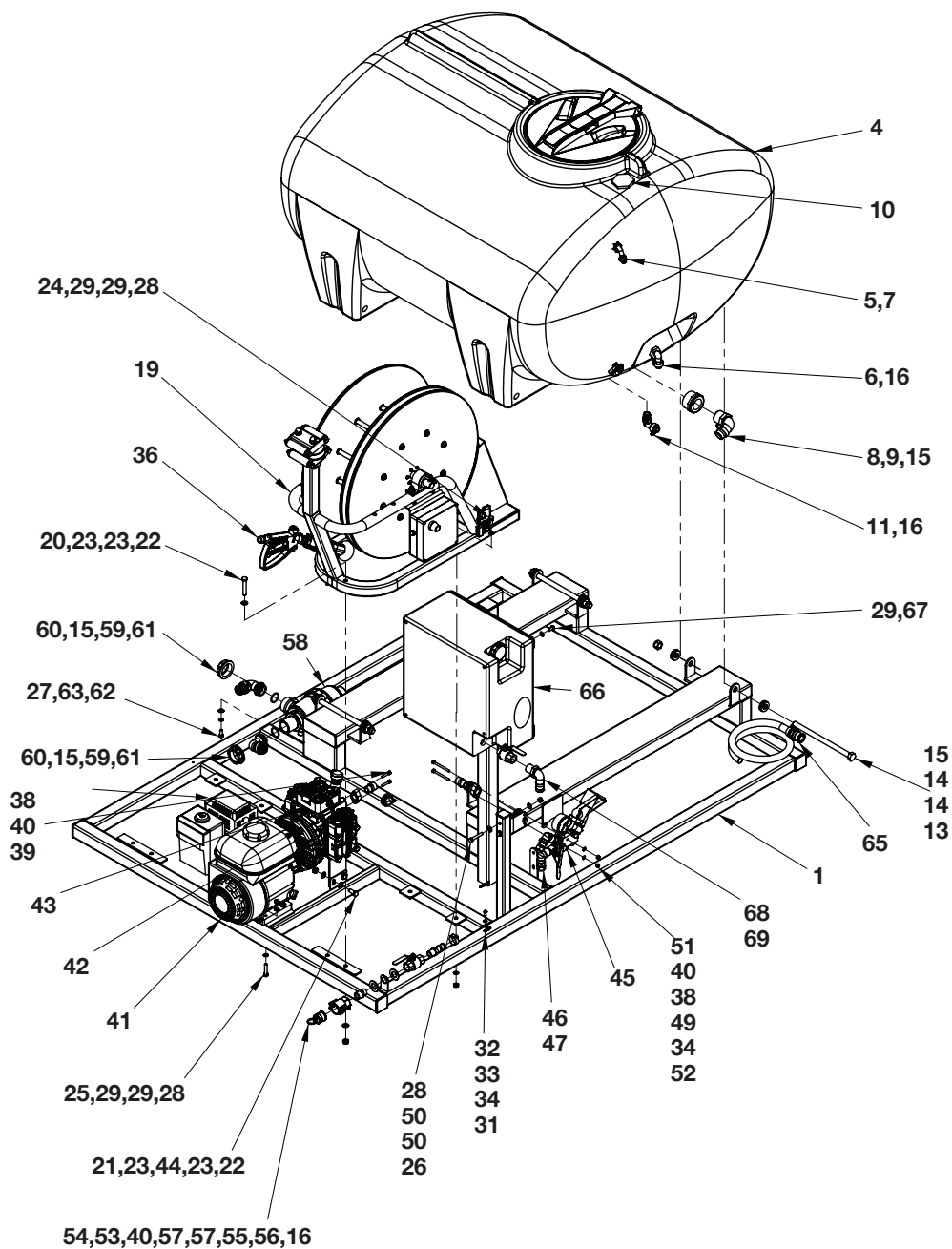


Pos.	Part No.	Description	Qty.
1	GA4600435	Frame, 400-600L Twin Pro Reel	1
2	GA5003783	50 x 50 square tube insert black	1
3	GA5002911	35x35 tube insert	12
4	GA4908045	Tank Assembly, 600L, Pro Reel	4
5	GA5000887	Bolt M16 x 200 GR8.8 ZP	2
6	GA5001043	Washer 16mm Flat SS HD	6
7	GA5001029	Nut M16 Nyloc ZP	1

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Pos.	Part No.	Description	Qty.
8	GA4904584	2015 100m Pro Reel Assembly	2
9	GA5011175	Bolt M10 x 60 GR8.8 ZP	1
10	GA5011173	Bolt M10 x 55 GR8.8 ZP	1
11	GA5006161	Bolt M10 x 25 GR8.8 ZP	1
12	GA5000117	Washer 10mm Flat SS HD	1
13	GA5000141	Nut M10 Nyloc ZP	2
14	GA5004711	Bolt M8 x 25 GR8.8 ZP	3
15	GA5048655	Bolt M8 x 40 GR8.8 ZP	3
16	GA5004727	Bolt M8 x 50 GR8.8 ZP	8
17	GA5003643	Washer 8mm Flat SS HD	4
18	GA5004917	Nut M8 Nyloc ZP	4
19	GA5016617	Male pin suit weatherpac plug	1
20	GA5014857	Seal for weather pack connectors (green)	2
21	GA5004409	Ring Terminal 6mm (Yellow)	2
22	GA5004447	Washer 6mm Spring SS	15
23	GA5004437	Washer 6mm Flat SS	3
24	GA5004047	BHCS M6 x 16 GR12.9 ZP	5
25	GA4509745	Plate, Exhaust Guard, Pro Reel	4
26	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	1
27	GA5023085	Honda engine ¾" shaft	6
28	GA5072285	Pump, Delta 40 GR	1
29	GA5072430	Adaptor, Thread, ½", Udor	1
30	GA5050655	SHCS M6 x 30 GR12.9 ZP	1
31	GA5054415	SHCS M6 x 75 GR12.9 ZP	1
32	GA5012273	Nipple Reducing ½" x ¾"	1
33	GA5072295	Reduction Gearbox, Ratio 6:1, S160-¾ GR, Suit Delta 40-50 GR	2
34	GA5077650	Pressure control unit, valve, DS3, 3 section, 20 Bar, Udor	2
35	GA5048150	½" BSPT - ½" BSPT male 90° elbow	2
36	GA5023170	External compression Fitting inc olive ½"Tx½"BSPF C073	1
37	GA4500615	Plate, DS3 Mount, 400-1000 Twin Pro Reel	2
38	GA5004429	Nut M6 Nyloc SS	1
39	GA5000999	¾" SS hose clamp	1
40	GA5077132	Cam lever, ¾" female coupling x ¾" female thread, Banjo	1
41	GA5077137	Plug, Cam lever, ¾" male, Banjo	1
42	GA5001741	Washer 20mm Flat SS HD	1
43	GA5018309	Valve, Ball, 12mm, ½" female, Lever handle, Brass	1
44	GA5077707	Hose barb, ½" male thread x ¾" hose, Banjo	1
45	GA2000106	Suction Filter, 1-½" 50 Mesh, 1-½" BSP Male Threads, Geoline	1
46	GA5076259	Hose barb, Elbow, 90 degree, 1½" fly nut end x 32 mm hose, Arag	1
47	GA5076604	Fly nut, 1½", Arag	1
48	GA5077679	O ring, 30 x 3, G10061	1
49	GA5004919	Washer 8mm Spring SS	1
50	GA4922250	Remote Drain, 2015 Twin Pro Reel	1
51	GA5048090	Clamp P 35mm 56487	1
52	GA5023525	Hand Wash Tank 23lit	1
53	GA5004693	Set Screw M8 x 16 GR8.8 ZP	1
54	GA5018317	Valve, Ball, 20mm, ¾" male, female, Lever handle, Brass	1
55	GA5077716	Hose Barb, Elbow, 90 degree, ¾" male thread x 1 hose, Banjo	1
56	GA4400415	Plate, Delta 40 Pump Mount, 200-400L kubota RTV	1

800L Pro-Reel



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800L Pro-Reel

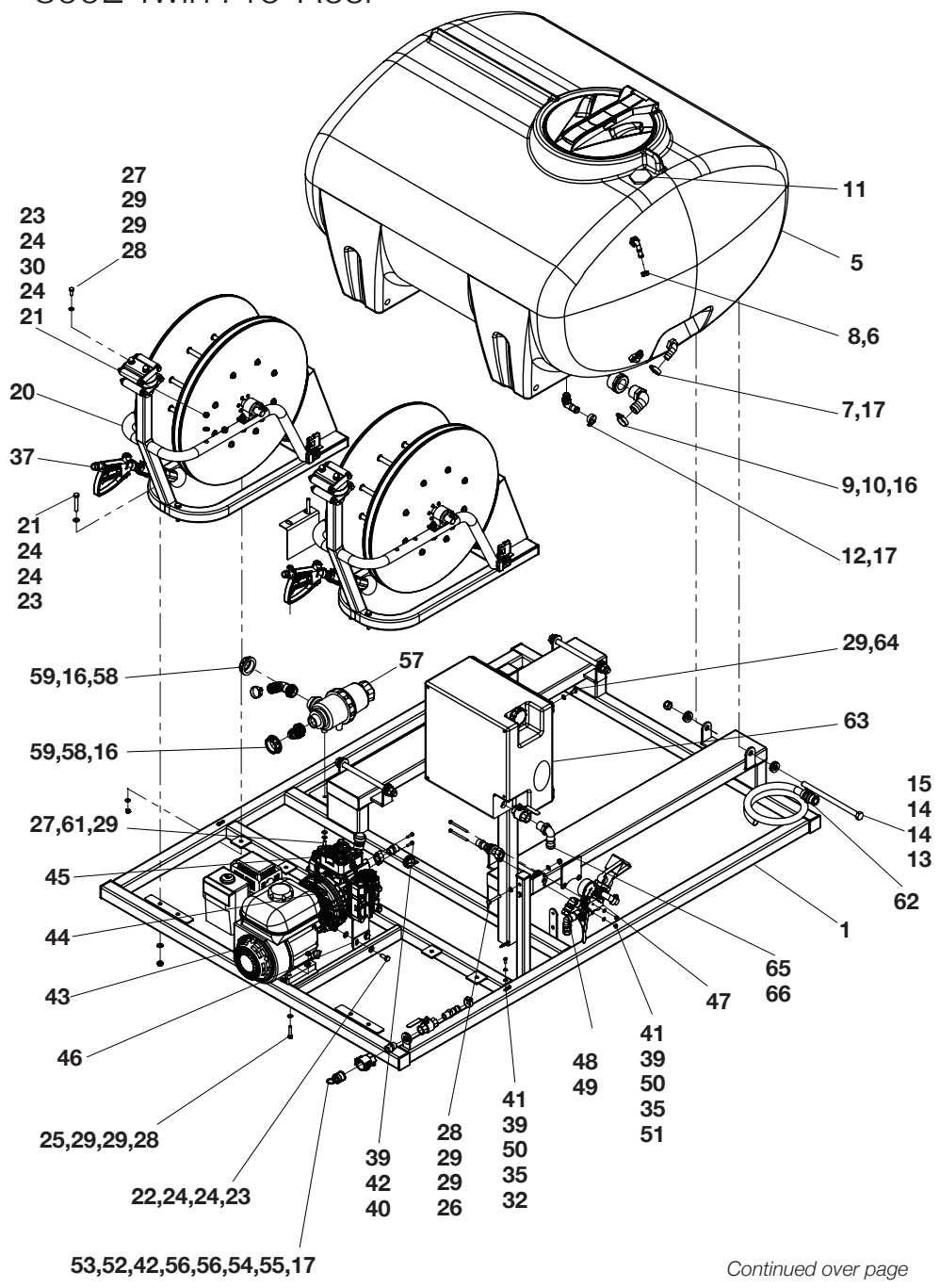
Pos.	Part No.	Description	Qty.
1	GA4600465	Frame, 800L Twin Pro Reel	1
2	GA5003783	50 x 50 square tube insert black	5
3	GA5002911	35x35 tube insert	1
4	GA5022093	Tank, 800L Cartage, Pro Reel Twin	1
5	GA5077710	Hose barb, Elbow, 90 degree, ¾" male thread x ½" hose, Banjo	2
6	GA5077719	Hose barb, Elbow, 90 degree, 1" male thread x ¾" hose, Banjo	1
7	GA5007231	Hose clamp, Cobra type, ½"	2
8	GA5078022	Reducing bush, 2" male thread x 1¼" female thread, Banjo	1
9	GA5077730	Hose barb, Elbow, 90 degree, 1¼" male thread x 1¼" hose, Banjo	1
10	GA5077948	Plug, 2" male thread, Banjo	1
11	GA5077704	Hose barb, Elbow, 90 degree, ½" male thread x ¾" hose, Banjo	1
12	GA5050315	Bolt M16 x 260 GR8.8 ZP	4
13	GA5001043	Washer 16mm Flat SS HD	32
14	GA5001029	Nut M16 Nyloc ZP	4
15	GA5002783	Hose Clamp, 1¼", SS (30-45/13W)	4
16	GA5000999	¾" SS hose clamp	4
17	GA5076714	Filter, Basket type, Diameter 305 x 245 deep, Suit main spray tank	1
18	GA5069815	Screw-M4 x 20 C/Sunk phillip head- Zinc	8
19	GA4904584	2015 100m Pro Reel Assembly	1
20	GA5011175	Bolt M10 x 60 GR8.8 ZP	2
21	GA5006161	Bolt M10 x 25 GR8.8 ZP	4
22	GA5000141	Nut M10 Nyloc ZP	6
23	GA5000117	Washer 10mm Flat SS HD	12
24	GA5004711	Bolt M8 x 25 GR8.8 ZP	2
25	GA5048655	Bolt M8 x 40 GR8.8 ZP	4
26	GA5004727	Bolt M8 x 50 GR8.8 ZP	2
27	GA5004085	Bolt M8 x 20 GR8.8 ZP	3
28	GA5004917	Nut M8 Nyloc ZP	8
29	GA5003643	Washer 8mm Flat SS HD	16
30	GA5016617	Male pin suit weatherpac plug	1
31	GA5004409	Ring Terminal 6mm (Yellow)	1
32	GA5004047	BHCS M6 x 16 GR12.9 ZP	1
33	GA5004447	Washer 6mm Spring SS	1
34	GA5004437	Washer 6mm Flat SS	3
35	GA5014857	Seal for weather pack connectors (green)	1
36	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	1
37	GA5023456	Muffler Deflector	1
38	GA5072430	Adaptor, Thread, ½", Udor	2
39	GA5050655	SHCS M6 x 30 GR12.9 ZP	2
40	GA5012273	Nipple Reducing ½" x ¾"	3
41	GA5023085	Honda engine ¾" shaft	1
42	GA5072295	Reduction Gearbox, Ratio 6:1, S160-¾ GR, Suit Delta 40-50 GR	1
43	GA5072285	Pump, Delta 40 GR	1
44	GA4400415	Plate, Delta 40 Pump Mount, 200-400L kubota RTV	1

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800L Pro-Reel

Pos.	Part No.	Description	Qty.
45	GA5077650	Pressure control unit, valve, DS3, 3 section, 20 Bar, Udor	1
46	GA5048150	½" BSPT - ½" BSPT male 90o elbow	2
47	GA5023170	External compression Fitting inc olive ½"Tx½"BSPF C073	2
48	GA5075745	Hose barb, Elbow, 90 degree, Fly nut end x 20mm hose, Udor, 025404	1
49	GA4500615	Plate, DS3 Mount, 400-1000 Twin Pro Reel	1
50	GA5003643	Washer 8mm Flat ZP HD	4
51	GA5004107	Bolt M6 x 70 GR8.8 ZP	2
52	GA5004429	Nut M6 Nyloc SS	2
53	GA5077132	Cam lever, ¾" female coupling x ¾" female thread, Banjo	1
54	GA5077137	Plug, Cam lever, ¾" male, Banjo	1
55	GA5018309	Valve, Ball, 12mm, ½" female, Lever handle, Brass	1
56	GA5077707	Hose barb, ½" male thread x ¾" hose, Banjo	1
57	GA5001741	Washer 20mm Flat SS HD	2
58	GA2000106	Suction Filter, 1-½" 50 Mesh, 1-½" BSP Male Threads, Geoline	1
59	GA5076259	Hose barb, Elbow, 90 degree, 1½" fly nut end x 32 mm hose, Arag	2
60	GA5076604	Fly nut, 1½", Arag	2
61	GA5077679	O ring, 32.00 x 3.0, 110142	2
62	GA5003631	Washer 5/16 Flat SS	3
63	GA5004919	Washer 8mm Spring SS	3
64	GA5048090	Clamp P 35mm 56487	1
65	GA4922250	Remote Drain, 2015 Twin Pro Reel	1
66	GA5023525	Hand Wash Tank 23lt	1
67	GA5004693	Set Screw M8 x 16 GR8.8 ZP	4
68	GA5018317	Valve, Ball, 20mm, ¾" male, female, Lever handle, Brass	1
69	GA5077716	Hose Barb, Elbow, 90 degree, ¾" male thread x 1 hose, Banjo	1

800L Twin Pro-Reel



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800L Twin Pro-Reel

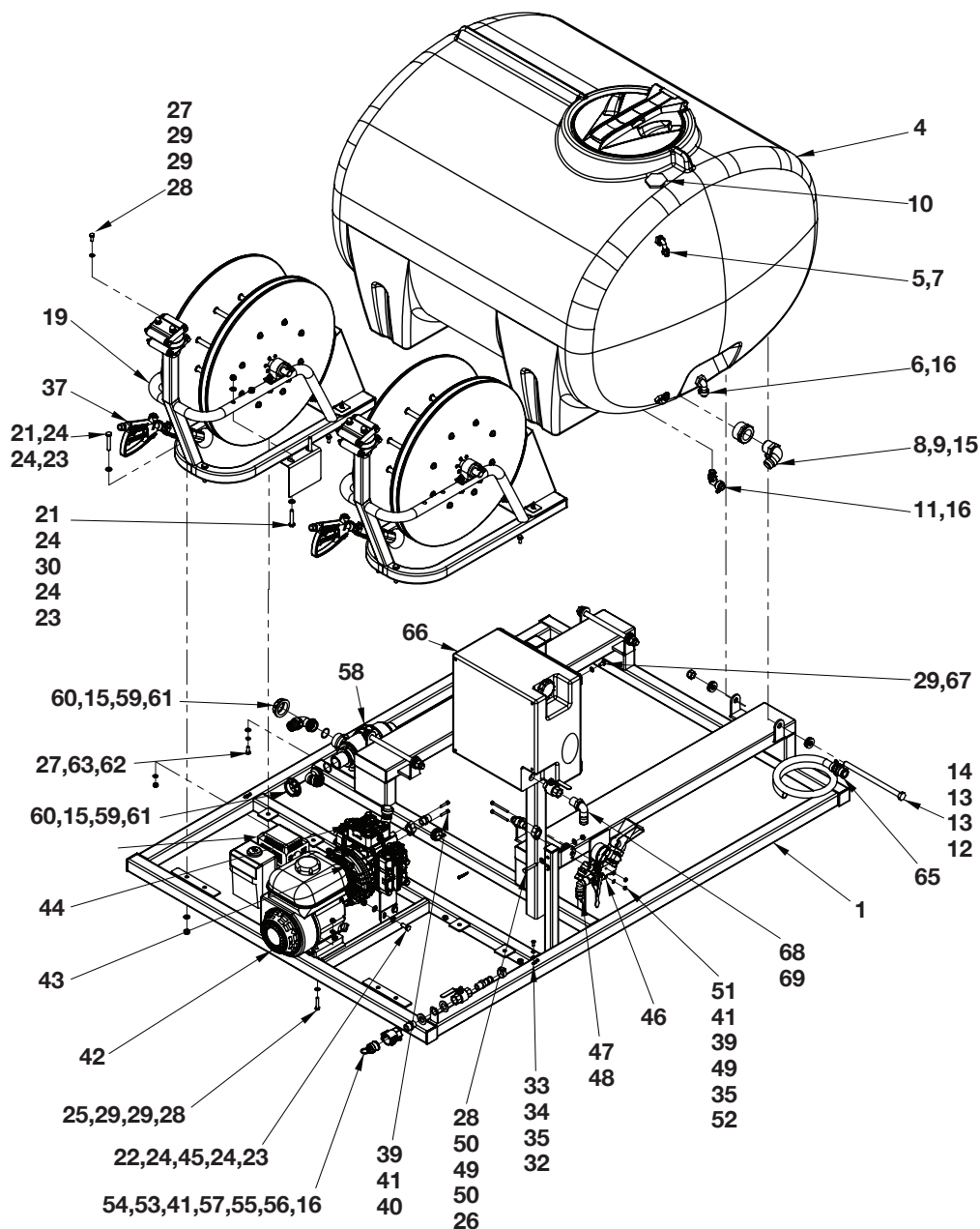
Pos.	Part No.	Description	Qty.
1	GA4600465	Frame, 800L Twin Pro Reel	1
2	GA5003783	50 x 50 square tube insert black	5
3	GA5002911	35x35 tube insert	1
4	GA5048090	Clamp P 35mm 56487	1
5	GA5022093	Tank, 800L Cartage, Pro Reel Twin	1
6	GA5077710	Hose barb, Elbow, 90 degree, ¾" male thread x ½" hose, Banjo	2
7	GA5077719	Hose barb, Elbow, 90 degree, 1" male thread x ¾" hose, Banjo	1
8	GA5007231	Hose clamp, Cobra type, ½"	2
9	GA5078022	Reducing bush, 2" male thread x 1¼" female thread, Banjo	1
10	GA5077730	Hose barb, Elbow, 90 degree, 1¼" male thread x 1¼" hose, Banjo	1
11	GA5077948	Plug, 2" male thread, Banjo	1
12	GA5077704	Hose barb, Elbow, 90 degree, ½" male thread x ¾" hose, Banjo	1
13	GA5050315	Bolt M16 x 260 GR8.8 ZP	4
14	GA5001043	Washer 16mm Flat SS HD	32
15	GA5001029	Nut M16 Nyloc ZP	4
16	GA5002783	Hose Clamp, 1¼", SS (30-45/13W)	4
17	GA5000999	¾" SS hose clamp	4
18	GA5076714	Filter, Basket type, Diameter 305 x 245 deep, Suit main spray tank	1
19	GA5069815	Screw-M4 x 20 C/Sunk phillip head- Zinc	8
20	GA4904584	2015 100m Pro Reel Assembly	2
21	GA5011175	Bolt M10 x 60 GR8.8 ZP	6
22	GA5006161	Bolt M10 x 25 GR8.8 ZP	4
23	GA5000141	Nut M10 Nyloc ZP	10
24	GA5000117	Washer 10mm Flat SS HD	20
25	GA5048655	Bolt M8 x 40 GR8.8 ZP	4
26	GA5004727	Bolt M8 x 50 GR8.8 ZP	2
27	GA5004085	Bolt M8 x 20 GR8.8 ZP	7
28	GA5004917	Nut M8 Nyloc ZP	10
29	GA5003643	Washer 8mm Flat SS HD	27
30	GA4509745	Plate, Exhaust Guard, Pro Reel	1
31	GA5016617	Male pin suit weatherpac plug	2
32	GA5004409	Ring Terminal 6mm (Yellow)	2
33	GA5004047	BHCS M6 x 16 GR12.9 ZP	2
34	GA5004447	Washer 6mm Spring SS	1
35	GA5004437	Washer 6mm Flat SS	5
36	GA5014857	Seal for weather pack connectors (green)	2
37	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	2
38	GA5023456	Muffler Deflector	1
39	GA5072430	Adaptor, Thread, ½", Udor	2
40	GA5004055	SHCS M6 x 20 GR12.9 ZP	2
41	GA5054415	SHCS M6 x 75 GR12.9 ZP	2
42	GA5012273	Nipple Reducing ½" x ¾"	3
43	GA5023085	Honda engine ¾" shaft	1
44	GA5072295	Reduction Gearbox, Ratio 6:1, S160-¾ GR, Suit Delta 40-50 GR	1

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800L Twin Pro-Reel

Pos.	Part No.	Description	Qty.
45	GA5072285	Pump, Delta 40 GR	1
46	GA4400415	Plate, Delta 40 Pump Mount, 200-400L kubota RTV	1
47	GA5077650	Pressure control unit, valve, DS3, 3 section, 20 Bar, Udor	1
48	GA5048150	½" BSPT - ½" BSPT male 90o elbow	2
49	GA5023170	External compression Fitting inc olive ½"Tx½"BSPF C073	2
50	GA4500615	Plate, DS3 Mount, 400-1000 Twin Pro Reel	1
51	GA5004429	Nut M6 Nyloc SS	2
52	GA5077132	Cam lever, ¾" female coupling x ¾" female thread, Banjo	1
53	GA5077137	Plug, Cam lever, ¾" male, Banjo	1
54	GA5018309	Valve, Ball, 12mm, ½" female, Lever handle, Brass	1
55	GA5077707	Hose barb, ½" male thread x ¾" hose, Banjo	1
56	GA5001741	Washer 20mm Flat SS HD	2
57	GA5076758	Suction filter, 1½", with shut off valve, 50 mesh	1
58	GA5076259	Hose barb, Elbow, 90 degree, 1½" fly nut end x 32mm hose, Arag	2
59	GA5076604	Fly nut, 1½", Arag	2
60	GA5077679	O ring, 30 x 3, G10061	2
61	GA5004919	Washer 8mm Spring SS	3
62	GA4922250	Remote Drain, 2015 Twin Pro Reel	1
63	GA5023525	Hand Wash Tank 23lt	1
64	GA5004693	Set Screw M8 x 16 GR8.8 ZP	4
65	GA5018317	Valve, Ball, 20mm, ¾" male, female, Lever handle, Brass	1
66	GA5077716	Hose Barb, Elbow, 90 degree, ¾" male thread x 1 hose, Banjo	1

1000L Twin Pro-Reel



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1000L Twin Pro-Reel

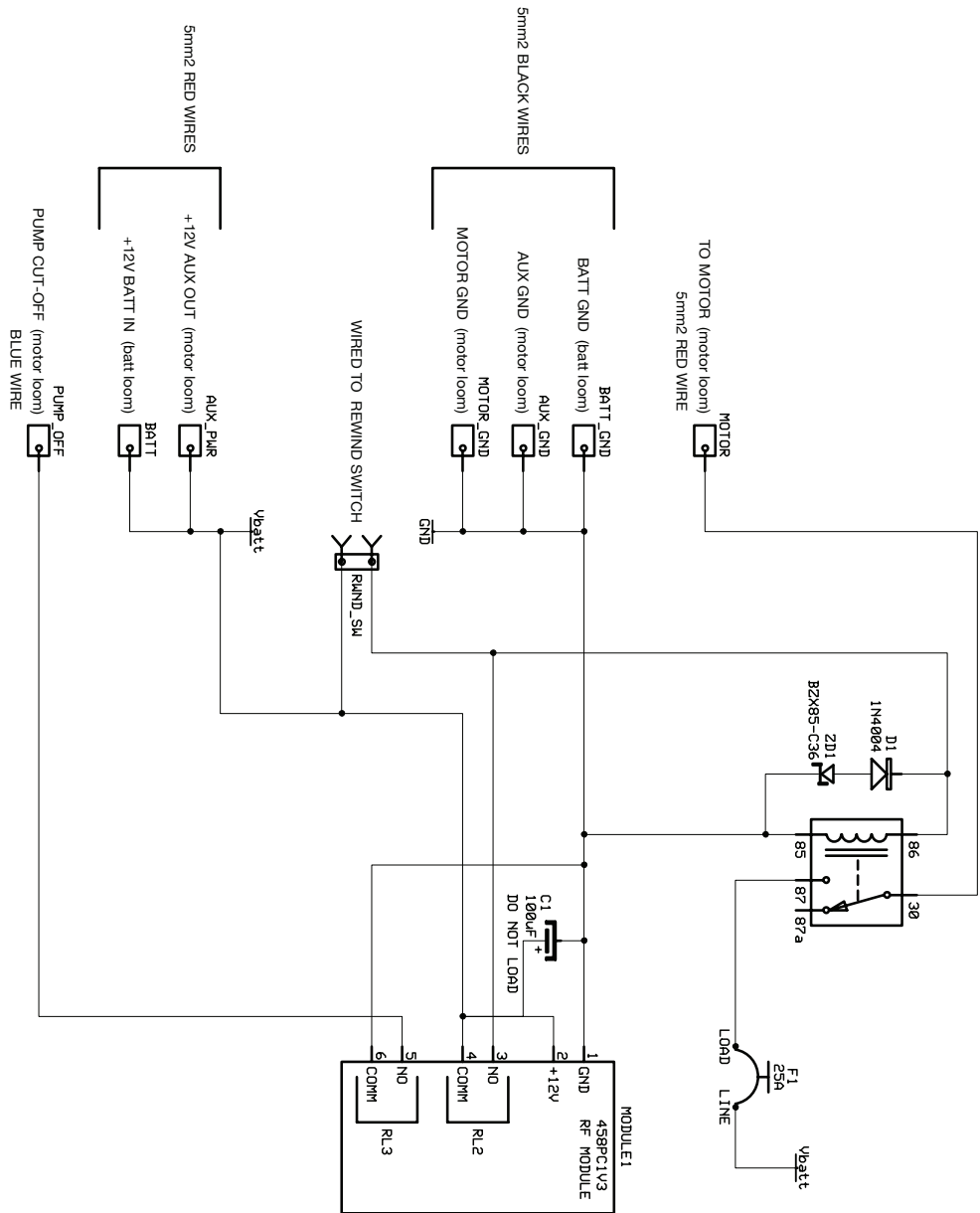
Pos.	Part No.	Description	Qty.
1	GA4600465	Frame, 800L Twin Pro Reel	1
2	GA5003783	50 x 50 square tube insert black	5
3	GA5002911	35x35 tube insert	1
4	GA5022098	Tank 1000lt Cartage, Green, Bare	1
5	GA5077710	Hose barb, Elbow, 90 degree, ¾" male thread x ½" hose, Banjo	2
6	GA5077719	Hose barb, Elbow, 90 degree, 1" male thread x ¾" hose, Banjo	1
7	GA5007231	Hose clamp, Cobra type, ½"	2
8	GA5078022	Reducing bush, 2" male thread x 1¼" female thread, Banjo	1
9	GA5077730	Hose barb, Elbow, 90 degree, 1¼" male thread x 1¼" hose, Banjo	1
10	GA5077948	Plug, 2" male thread, Banjo	1
11	GA5077704	Hose barb, Elbow, 90 degree, ½" male thread x ¾" hose, Banjo	1
12	GA5050315	Bolt M16 x 260 GR8.8 ZP	4
13	GA5001043	Washer 16mm Flat SS HD	32
14	GA5001029	Nut M16 Nyloc ZP	4
15	GA5002783	Hose Clamp, 1¼", SS (30-45/13W)	4
16	GA5000999	¾" SS hose clamp	4
17	GA5076714	Filter, Basket type, Diameter 305 x 245 deep, Suit main spray tank	1
18	GA5069815	Screw-M4 x 20 C/Sunk phillip head- Zinc	8
19	GA4904584	2015 100m Pro Reel Assembly	2
20	GA5011175	Bolt M10 x 60 GR8.8 ZP	4
21	GA5011173	Bolt M10 x 55 GR8.8 ZP	2
22	GA5006161	Bolt M10 x 25 GR8.8 ZP	4
23	GA5000141	Nut M10 Nyloc ZP	10
24	GA5000117	Washer 10mm Flat SS HD	20
25	GA5048655	Bolt M8 x 40 GR8.8 ZP	4
26	GA5004727	Bolt M8 x 50 GR8.8 ZP	2
27	GA5004085	Bolt M8 x 20 GR8.8 ZP	7
28	GA5004917	Nut M8 Nyloc ZP	10
29	GA5003643	Washer 8mm Flat SS HD	20
30	GA4509745	Plate, Exhaust Guard, Pro Reel	1
31	GA5016617	Male pin suit weatherpac plug	2
32	GA5004409	Ring Terminal 6mm (Yellow)	2
33	GA5004047	BHCS M6 x 16 GR12.9 ZP	2
34	GA5004447	Washer 6mm Spring SS	1
35	GA5004437	Washer 6mm Flat SS	5
36	GA5014857	Seal for weather pack connectors (green)	2
37	GA5023475	Spray gun, Metal grip & swivel, Turbo 400	2
38	GA5023456	Muffler Deflector	1
39	GA5072430	Adaptor, Thread, ½", Udor	2
40	GA5050655	SHCS M6 x 30 GR12.9 ZP	2
41	GA5012273	Nipple Reducing ½" x ¾"	3
42	GA5023085	Honda engine ¾" shaft	1
43	GA5072295	Reduction Gearbox, Ratio 6:1, S160-¾ GR, Suit Delta 40-50 GR	1
44	GA5072285	Pump, Delta 40 GR	1

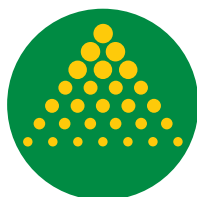
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1000L Twin Pro-Reel

Pos.	Part No.	Description	Qty.
45	GA4400415	Plate, Delta 40 Pump Mount, 200-400L kubota RTV	1
46	GA5077650	Pressure control unit, valve, DS3, 3 section, 20 Bar, Udor	1
47	GA5048150	½" BSPT - ½" BSPT male 90° elbow	2
48	GA5023170	External compression Fitting inc olive ½"Tx½"BSPF C073	2
49	GA4500615	Plate, DS3 Mount, 400-1000 Twin Pro Reel	1
50	GA5003643	Washer 8mm Flat ZP HD	4
51	GA5004107	Bolt M6 x 70 GR8.8 ZP	2
52	GA5004429	Nut M6 Nyloc SS	2
53	GA5077132	Cam lever, ¾" female coupling x ¾" female thread, Banjo	1
54	GA5077137	Plug, Cam lever, ¾" male, Banjo	1
55	GA5018309	Valve, Ball, 12mm, ½" female, Lever handle, Brass	1
56	GA5077707	Hose barb, ½" male thread x ¾" hose, Banjo	1
57	GA5001741	Washer 20mm Flat SS HD	2
58	GA2000106	Suction Filter, 1-½" 50 Mesh, 1-½" BSP Male Threads, Geoline	1
59	GA5076259	Hose barb, Elbow, 90 degree, 1½" fly nut end x 32 mm hose, Arag	2
60	GA5076604	Fly nut, 1½", Arag	2
61	GA5077679	O ring, 32.00 x 3.0, 110142	2
62	GA5003631	Washer 5/16 Flat SS	3
63	GA5004919	Washer 8mm Spring SS	3
64	GA5048090	Clamp P 35mm 56487	1
65	GA4922250	Remote Drain, 2015 Twin Pro Reel	1
66	GA5023525	Hand Wash Tank 23lt	1
67	GA5004693	Set Screw M8 x 16 GR8.8 ZP	4
68	GA5018317	Valve, Ball, 20mm, ¾" male, female, Lever handle, Brass	1
69	GA5077716	Hose Barb, Elbow, 90 degree, ¾" male thread x 1 hose, Banjo	1

Electrical Schematic





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